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Public Relations - Minor .....	2416	Principal Grades 4-9 Licensure Preparation - Non-Degree .....	2704
Visual Journalism - Minor .....	2416	Principal Grades 5-12 Licensure Preparation - Non-Degree .....	2705
School of Visual Communication Design .....	2417	Principal Grades PK-6 Licensure Preparation - Non-Degree .....	2705
Design - Minor .....	2429	Qualitative Research - Graduate Certificate .....	2706
Information Design - Minor .....	2430	Recreation Management - Minor .....	2707
Photography - B.F.A. ....	2430	Recreation, Park and Tourism Management - B.S. ....	2708
Photography - Minor .....	2433	Sport Administration - B.S. ....	2713
User Experience Design - Minor .....	2433	Sport Administration - M.A. ....	2716
Visual Communication Design - B.A. ....	2434	Sport Administration - Minor .....	2717
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Alcohol, Tobacco and Other Drug Prevention - Undergraduate Certificate .....	2761	Counseling - Ed.S. ....	2880
Athletic Training - B.S. ....	2762	Counselor Education and Supervision - Ph.D. ....	2881
Athletic Training - M.S. ....	2765	Deaf Education Multiple Disabilities - Graduate Certificate .....	2882
Audiology - Au.D. ....	2766	Deaf Education Multiple Disabilities - Undergraduate Certificate .....	2882
Audiology - M.A. ....	2768	Early Childhood Deaf Education - Graduate Certificate ..	2883
Audiology - Ph.D. ....	2769	Early Intervention - Graduate Certificate .....	2884
Community Health Education - B.S. ....	2770	Early Intervention - Minor .....	2884
Community Health Education - Minor .....	2772	Educational Psychology - M.A. ....	2885
Exercise Physiology - M.S. ....	2773	Educational Psychology - M.Ed. ....	2886
Exercise Physiology - Ph.D. ....	2775	Educational Psychology - Ph.D. ....	2887
Exercise Science - B.S. ....	2776	Gerontology - Graduate Certificate .....	2888
Health Education and Promotion - M.Ed. ....	2781	Gerontology - Minor .....	2889
Health Education and Promotion - Ph.D. ....	2782	Gifted Education Endorsement Preparation - Non-Degree .....	2890
Human Sexuality - Minor .....	2783	Human Development and Family Studies - B.S. ....	2891
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Nutrition - B.S. ....	2790	Human Development and Family Studies - Minor .....	2902
Nutrition - M.S. ....	2793	Long-Term Care Administration - B.S. ....	2903
School Health Education (P-12) Additional Licensure Preparation - Non-Degree .....	2795	Mild to Moderate Special Education - Minor .....	2905
School Health Education - B.S.E. ....	2796	Nonprofit Studies - Minor .....	2906
Speech Language Pathology - M.A. ....	2802	Nursing Home Administration - Graduate Certificate .....	2907
Speech Language Pathology - Ph.D. ....	2803	School Counseling - M.Ed. ....	2908
Speech Pathology and Audiology - B.S. ....	2804	School Psychology - Ed.S. ....	2909
Sports Medicine - B.S. ....	2806	School Psychology - M.Ed. ....	2911
Sports Medicine - Minor .....	2808	School Psychology - Ph.D. ....	2911
School of Lifespan Development and Educational Sciences .....	2809	Special Education - B.S.E. ....	2913
Addictions Counseling - Graduate Certificate .....	2866	Special Education - Ed.S. ....	2919
Addictions Counseling - Undergraduate Certificate .....	2867	Special Education - M.Ed. ....	2920
American Sign Language/English Interpreting - B.S. ....	2868	Special Education - Ph.D. ....	2922
American Sign Language/English Interpreting Licensure Preparation (Non-degree) .....	2871	Special Education Deaf Education Additional Licensure Preparation - Non-Degree .....	2923
Autism Spectrum Disorders - Graduate Certificate .....	2872	Special Education Deaf Education Initial Licensure Preparation - Non-Degree .....	2924
Autism Spectrum Disorders - Minor .....	2873	Special Education Early Childhood (PK-5) Additional Licensure Preparation - Non-Degree .....	2925
Behavioral Intervention Specialist - Graduate Certificate .....	2873	Special Education Early Childhood (PK-5) Initial Licensure Preparation - Non-Degree .....	2926
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Clinical Mental Health Counseling - M.Ed. ....	2877		
Clinical Rehabilitation Counseling - M.Ed. ....	2878		

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Special Education Pre-K Special Needs Endorsement Preparation - Non-Degree .....	2932	Life Science - B.S.E. ....	3040
Special Education Transition-to-Work Endorsement Preparation - Non-Degree .....	2933	Life Science/Chemistry - B.S.E. ....	3044
School of Teaching, Learning and Curriculum Studies .....	2934	Middle Childhood Education (4-9) Language Arts/Reading and Mathematics Initial Licensure Preparation - Non-Degree .....	3048
Adapted Physical Education Endorsement Preparation - Non-Degree .....	2982	Middle Childhood Education (4-9) Language Arts/Reading and Science Initial Licensure Preparation - Non-Degree .....	3050
Athletic Coaching - Minor .....	2982	Middle Childhood Education (4-9) Mathematics and Science Initial Licensure Preparation - Non-Degree .....	3051
Career - Technical Teacher Education - M.Ed. ....	2983	Middle Childhood Education (4-9) Mathematics and Social Studies Initial Licensure Preparation - Non-Degree .....	3052
Career-Based Intervention Endorsement Preparation - Non-Degree .....	2984	Middle Childhood Education (4-9) Social Studies and Language Arts/Reading Initial Licensure Preparation - Non-Degree .....	3053
Career-Technical Teacher Education - Graduate Certificate .....	2985	Middle Childhood Education (4-9) Social Studies and Science Initial Licensure Preparation - Non-Degree .....	3055
Career-Technical Teacher Education - Undergraduate Certificate .....	2985	Middle Childhood Education - B.S.E. ....	3056
Computer Science Endorsement Preparation - Non-Degree .....	2986	Middle Childhood Education–Language Arts and Reading (4-9) Additional Licensure Preparation - Non-Degree .....	3067
Computer Technology Endorsement Preparation - Non-Degree .....	2987	Middle Childhood Education–Mathematics (4-9) Additional Licensure Preparation - Non-Degree .....	3068
Curriculum and Instruction - Ed.S. ....	2988	Middle Childhood Education–Science (4-9) Additional Licensure Preparation - Non-Degree .....	3069
Curriculum and Instruction - M.Ed. ....	2989	Middle Childhood Education–Social Studies (4-9) Additional Licensure Preparation - Non-Degree .....	3070
Curriculum and Instruction - Ph.D. ....	2991	Middle Childhood Generalist Science (4-6) Endorsement Preparation .....	3072
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Early Childhood Generalist (Grades 4-5) Endorsement Preparation - Graduate Non-Degree .....	3003	Secondary Education - M.A.T. ....	3085
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Nursing for Registered Nurses - B.S.N. ....	3130	Fashion Media - Minor .....	3342
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College of Public Health .....	3150	Jazz Studies - Minor .....	3381
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Public Health - M.P.H. ....	3188	Music Education - B.M. ....	3398
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Art History - M.A. ....	3310	Costume Design and Technology - Minor .....	3441
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# KENT UNIVERSITY CATALOG 2020-2021

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The Kent State University Catalog is the official document of record for undergraduate and graduate programs, courses, academic policies and special programs. The University Catalog is an online-only publication, however all pages are printer-friendly. Please note that throughout the site there are also hyperlinks to other information resources at Kent State University. The information contained in these links is not a part of the official University Catalog. While every effort is made to provide accurate and current information, Kent State University reserves the right to change without notice statements in the University Catalog concerning rules, policies, curricula, courses or other matters.

## Contact Information

The Kent State University Catalog is produced and maintained in the Office of Curriculum Services under the auspices of the executive vice president for academic affairs and provost.

Please e-mail or visit us online if you have any questions regarding the University Catalog or the curriculum process.

E-mail: [ugcatalog@kent.edu](mailto:ugcatalog@kent.edu)

Tel: 330-672-1628

Web: [www.kent.edu/provost/curriculum](http://www.kent.edu/provost/curriculum)

# COURSES A-Z

## Course Descriptions

Course descriptions include a synopsis of the content to be covered in the course, credit hours, schedule type (e.g., lecture, lab) and grade rule (e.g., letter, satisfactory/unsatisfactory). If applicable, course descriptions will include prerequisites for registration, attributes to fulfill a university requirement, course equivalencies and repeatable for credit. Please note that there may be differences in the same course from one academic year to the next.

Some courses require that a fee be paid in addition to instructional and general fees. A list of courses with these special fees can be found in the University Fee Register on the Bursar's website.

## Accounting (ACCT)

### ACCT 23020 INTRODUCTION TO FINANCIAL ACCOUNTING 3 Credit Hours

(Equivalent to ACTT 11000) Introduction to the basic concepts and standards underlying financial accounting. Topics to be covered include revenue recognition, receivables, inventory, long-lived assets, liabilities and stockholders' equity. The impact of transactions on the accounting equation and financial statements (balance sheet, income statement and cash flows) is emphasized.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** TAG Business

### ACCT 23021 INTRODUCTION TO MANAGERIAL ACCOUNTING 3 Credit Hours

(Equivalent to ACTT 11001) Introduction to managerial accounting concepts and tools that can be used to support decision-making in organizations. Includes coverage of cost systems, cost behavior, cost-volume-profit analysis, relevant costs and budgets.

**Prerequisite:** ACCT 23020 or ACTT 11000.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** TAG Business

### ACCT 33000 FUNDAMENTAL TAX PROCEDURES 3 Credit Hours

Non-technical presentation of federal income tax laws and regulations as they relate to individuals.

**Prerequisite:** ACCT 23020 or ACTT 11000; and ACCT 23021 or ACTT 11001; and minimum 2.500 overall GPA; not open to students declared in the Accounting major.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

### ACCT 33001 INTERMEDIATE FINANCIAL ACCOUNTING I 3 Credit Hours

Review of the accounting cycle; financial statement preparation, accounting for sales, receivables, inventory, current liabilities and long-term assets. Professional accounting research skills are emphasized.

**Prerequisite:** MATH 11012 or MATH 12002; and minimum B- grade in ACCT 23020 (or ACTT 11000) and ACCT 23021 (or ACTT 11001); and minimum C grade in ENG 21011 and COMM 15000 and MATH 11010; and minimum 2.500 overall GPA; and Accounting major or minor.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

### ACCT 33004 INTRODUCTION TO ACCOUNTING SYSTEMS 3 Credit Hours

Overview of accounting information systems with emphasis on internal controls. Course explores how the integrity and efficiency of business process are supported by information systems. Interpersonal skills and computer applications are emphasized.

**Prerequisite:** CIS 24053; and MATH 11012 or MATH 12002; and minimum B- grade in ACCT 23021 (or ACTT 11001) and ACCT 23020 (or ACTT 11000); and minimum C grade in ENG 21011, COMM 15000 and MATH 11010; and minimum 2.500 overall GPA; and Accounting major or minor.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

### ACCT 33010 COST ACCOUNTING 3 Credit Hours

Cost accounting for manufacturing and service organizations, including cost determination, cost analysis, costing systems, cost-volume-profit analysis, budgeting, cost allocation, activity-based costing, capital investment and performance measurement. Computer application skills are emphasized.

**Prerequisite:** Minimum C grade in ACCT 33001 and ACCT 33004; and minimum 2.500 overall GPA; and Accounting major or minor.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

### ACCT 33012 INTERMEDIATE FINANCIAL ACCOUNTING II 3 Credit Hours

Accounting for long-term liabilities, debt and equity investments, leases, pensions and other post-retirement benefits, income tax allocation, owners' equity and statement of cash flows. Professional accounting research skills and written communication skills are emphasized.

**Prerequisite:** Minimum C grade in ACCT 33001 and ACCT 33004; and minimum 2.500 overall GPA; and Accounting major and minor.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

### ACCT 33061 FINANCIAL REPORTING ISSUES AND ANALYSIS 3 Credit Hours

Financial analysis and interpretation of issues relative to the balance sheet, income statement and cash flow statement. Topics include assets, liabilities, owner's equity, inter-corporate investments, revenue and expense recognition and ratio analysis. Course may not be used to fulfill requirements in the Accounting major.

**Prerequisite:** ACCT 23021 or ACTT 11001; and minimum 2.500 overall GPA; not open to students declared in Accounting major.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ACCT 33063 COST CONTROL AND ANALYSIS FOR MANAGEMENT 3 Credit Hours**

An in-depth study of cost accounting, focusing on the use of cost accounting information in planning, control and decision-making. Topics include cost terminology, costing systems, cost-volume-profit analysis, budgeting, cost allocation, activity-based costing, variance analysis, ethics and performance measurement. Course may not be used to fulfill requirements in the Accounting major.

**Prerequisite:** ACCT 23021 or ACTT 11001; and minimum 2.500 overall GPA; not open to students declared in Accounting major.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ACCT 43009 ACCOUNTING DATA ANALYTICS 3 Credit Hours**

(Slashed with ACCT 53009) Students apply data analytical concepts, tools and techniques in an accounting context. Course explores how to acquire, cleanse and analyze accounting and other data in accounting-related settings. Students complete cases in financial accounting, managerial accounting, auditing and tax. Critical thinking and application of both general and accounting-specific data analytics software are emphasized.

**Prerequisite:** Minimum C grade in ACCT 33010 and ACCT 33012; and minimum 2.500 overall GPA; and Accounting major.

**Corequisite:** ACCT 43010.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ACCT 43010 PRINCIPLES OF AUDITING (ELR) (WIC) 3 Credit Hours**

Integration of conceptual and practical aspects of auditing, importance of strong internal controls is stressed. Ethical decision making, written and verbal communication and interpersonal skills are emphasized.

**Prerequisite:** Minimum C grade in ACCT 33010 and ACCT 33012; and minimum 2.500 overall GPA; and Accounting major.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Experiential Learning Requirement, Writing Intensive Course

**ACCT 43013 ADVANCED MANAGEMENT ACCOUNTING 3 Credit Hours**

(Slashed with ACCT 53013) Advanced contemporary topics relating to the use of accounting information in managerial decision-making. Topical coverage varies from budgeting, cost behavior, corporate governance, executive compensation, tax strategies to sticky costs. Accounting research, verbal and written communication, ethical decision-making and analytical skills are emphasized.

**Prerequisite:** Minimum C grade in ACCT 33010; and minimum 2.500 overall GPA and Accounting major.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ACCT 43020 ADVANCED FINANCIAL ACCOUNTING 3 Credit Hours**

(Slashed with ACCT 53020) Conceptual and practical issues surrounding: (1) financial reporting for investment activities of businesses when one firm possesses significant influence or control over another; (2) accounting for international business transactions, including the use of derivatives for hedging foreign exchange risk; and (3) translating foreign currency financial statements of foreign operations. Professional accounting research and written communication skills are emphasized.

**Prerequisite:** Minimum C grade in ACCT 33001 and ACCT 33004 and ACCT 33010 and ACCT 33012; and minimum 2.500 overall GPA; and Accounting major.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ACCT 43031 INCOME TAXATION I - INDIVIDUAL TAXATION 3 Credit Hours**

Introduction to Federal income tax for individual taxpayers. Detailed analysis recognition rules for individuals. Overview of tax rules related to entity choice for business owners.

**Prerequisite:** Minimum C grade in ACCT 33001 and ACCT 33004; and minimum 2.500 overall GPA; and Accounting major.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ACCT 43033 INCOME TAXATION II - ENTITY TAXATION 3 Credit Hours**

(Slashed with ACCT 53033) Federal taxation of business entities, including income taxation of C corporations, partnerships, S corporations and trusts and estates; estate and gift taxation; tax administration and practice. Professional accounting research and written communication skills are emphasized.

**Prerequisite:** ACCT 43031; and minimum 2.500 overall GPA; and Accounting major.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ACCT 43034 NONPROFIT ACCOUNTING AND AUDITING 3 Credit Hours**

(Slashed with ACCT 53034) Accounting, financial reporting and auditing issues and techniques that are unique to government and nonprofit entities. Professional accounting research, written communication and ethical decision-making skills are emphasized.

**Prerequisite:** Minimum C grade in ACCT 33001 and ACCT 33004 and ACCT 33010 and ACCT 33012; and minimum 2.500 overall GPA; and Accounting major.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ACCT 43043 INTERNAL AUDIT AND FORENSIC ACCOUNTING 3 Credit Hours**

(Slashed with ACCT 53043) Course introduces students to the internal audit profession and the internal audit process. Topics include the definition of internal auditing, the International Professional Practices Framework (IPPF), risk, governance and control issues and conducting internal audit engagements. Provides an overview of forensic accounting, including the introduction to fraud in business, the circumstances in which it arises, techniques for preventing, detecting, measuring fraud and the skills necessary to respond and resolve fraud once discovered. Students apply the concepts to analyze cases in internal audit and forensic accounting. Written and oral communication skills are emphasized.

**Prerequisite:** Minimum C grade in ACCT 43010.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ACCT 43048 INTERNAL AUDIT AND FORENSIC AUDITING (KMCR) 3,6 Credit Hours**

TEST Prerequisite: TEST Pre/corequisites: TEST Corequisites: TEST

**Schedule Type:** Emporium, International Experience, Lecture, Studio

**Contact Hours:** 3-6 lecture

**Grade Mode:** Standard Letter

**Attributes:** Kent Core Composition, Kent Core Mathematics and Critical Reasoning

**ACCT 43087 INTERNATIONAL ACCOUNTING EXPERIENCE 3 Credit Hours**

(Slashed with ACCT 53087) Firsthand exposure to international businesses and organizations generally relating to business and specifically relating to accounting and finance. Includes pre-trip orientation sessions, visits to international businesses and organizations, and opportunities for cultural activities.

**Prerequisite:** ACCT 23020 and ACCT 23021; and Accounting major; and special approval.

**Schedule Type:** Field Experience

**Contact Hours:** 9 other

**Grade Mode:** Standard Letter

**ACCT 43092 ACCOUNTING INTERNSHIP (ELR) 3 Credit Hours**

Study of activities related to concurrent on-the-job experience with cooperating industrial and public accounting firms. Students must have a minimum 3.000 GPA in all attempts of ACCT courses to register.

**Prerequisite:** Minimum C grade in ACCT 33001 or ACCT 33004; and minimum 3.000 overall GPA; and Accounting major; and junior standing; and special approval.

**Schedule Type:** Practical Experience

**Contact Hours:** 9 other

**Grade Mode:** Satisfactory/Unsatisfactory

**Attributes:** Experiential Learning Requirement

**ACCT 43093 VARIABLE TITLE WORKSHOP IN ACCOUNTING 1-3 Credit Hours**

(Repeatable for credit) Topic to be determined when a specific course is proposed for a particular term.

**Prerequisite:** Accounting major; and senior standing; and special approval.

**Schedule Type:** Workshop

**Contact Hours:** 1-3 other

**Grade Mode:** Satisfactory/Unsatisfactory

**ACCT 43095 SPECIAL TOPICS: ACCOUNTING 3 Credit Hours**

(Repeatable for credit) (Slashed with ACCT 53095) Offered periodically with different topics and different faculty involved.

**Prerequisite:** Accounting major; and senior standing; special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ACCT 43096 INDIVIDUAL INVESTIGATION IN ACCOUNTING 1-3 Credit Hours**

(Repeatable for credit) Individual research into a current accounting topic.

**Prerequisite:** Accounting major; and senior standing; and special approval.

**Schedule Type:** Individual Investigation

**Contact Hours:** 3-9 other

**Grade Mode:** Standard Letter

**ACCT 53009 ACCOUNTING DATA ANALYTICS 3 Credit Hours**

(Slashed with ACCT 43009) Students apply data analytical concepts, tools and techniques in an accounting context. Course explores how to acquire, cleanse and analyze accounting and other data in accounting-related settings. Students complete cases in financial accounting, managerial accounting, auditing and tax. Critical thinking and application of both general and accounting-specific data analytics software are emphasized.

**Prerequisite:** Minimum C grade in ACCT 33010 and ACCT 33012; and minimum 2.500 overall GPA; and Accounting major; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ACCT 53013 ADVANCED MANAGEMENT ACCOUNTING 3 Credit Hours**

(Slashed with ACCT 43013) Advanced contemporary topics relating to the use of accounting information in managerial decision-making. Topical coverage varies from budgeting, cost behavior, corporate governance, executive compensation, tax strategies to sticky costs. Accounting research, verbal and written communication, ethical decision-making and analytical skills are emphasized.

**Prerequisite:** ACCT 33010; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ACCT 53014 ADVANCED ACCOUNTING SYSTEMS 3 Credit Hours**

Analysis, design and implementation of accounting information systems with a focus on creating effective business processes and internal controls. Students work with enterprise resource planning, ERP, software to deepen their understanding of key concepts. Introduction to retrieving and analyzing data via Structured Query Language (SQL). Enhanced statistical analysis, interpersonal skills and written communications skills are emphasized.

**Prerequisite:** ACCT 33004; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ACCT 53020 ADVANCED FINANCIAL ACCOUNTING 3 Credit Hours**

(Slashed with ACCT 43020) Conceptual and practical issues surrounding: (1) financial reporting for investment activities of businesses when one firm possesses significant influence or control over another; (2) accounting for international business transactions, including the use of derivatives for hedging foreign exchange risk; and (3) translating foreign currency financial statements of foreign operations. Professional accounting research and written communication skills are emphasized.

**Prerequisite:** Minimum C grade in ACCT 33012 and ACCT 43031; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ACCT 53033 INCOME TAXATION II - ENTITY TAXATION 3 Credit Hours**

(Slashed with ACCT 43033) Federal taxation of business entities including income taxation of C corporations, partnerships, S corporations and trusts and estates; estate and gift taxation; tax administration and practice. Professional accounting research and written communication skills are emphasized.

**Prerequisite:** ACCT 43031; and minimum 2.500 overall GPA; and Accounting major; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ACCT 53034 NONPROFIT ACCOUNTING AUDITING 3 Credit Hours**

(Slashed with ACCT 43034) Accounting, financial reporting and auditing issues and techniques that are unique to government and nonprofit entities. Professional accounting research, written communication and ethical decision-making skills are emphasized.

**Prerequisite:** ACCT 33012; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ACCT 53043 INTERNAL AUDIT AND FORENSIC ACCOUNTING 3 Credit Hours**

(Slashed with ACCT 43043) Course introduces students to the internal audit profession and the internal audit process. Topics include the definition of internal auditing, the International Professional Practices Framework (IPPF), risk, governance and control issues and conducting internal audit engagements. Provides an overview of forensic accounting, including the introduction to fraud in business, the circumstances in which it arises, techniques for preventing, detecting, measuring fraud and the skills necessary to respond and resolve fraud once discovered. Students apply the concepts to analyze cases in internal audit and forensic accounting. Written and oral communication skills are emphasized.

**Prerequisite:** Minimum C grade in ACCT 43010; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ACCT 53087 INTERNATIONAL ACCOUNTING EXPERIENCE 3 Credit Hours**

(Slashed with ACCT 43087) Firsthand exposure to international businesses and organizations generally relating to business and specifically relating to accounting and finance. Includes pre-trip orientation sessions, visits to international businesses and organizations, and opportunities for cultural activities.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Field Experience

**Contact Hours:** 9 other

**Grade Mode:** Standard Letter

**ACCT 53095 SPECIAL TOPICS: ACCOUNTING 3 Credit Hours**

(Repeatable for credit) (Slashed with ACCT 43095) Offered periodically with different topics and different faculty involved.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ACCT 63022 PROFESSIONAL ISSUES AND ETHICS IN ACCOUNTING 3 Credit Hours**

(Slashed with ACCT 73022) Students investigate issues confronting the accounting profession today by reviewing the past, examining the present and looking into the future. Topics covered include history and characteristics of the profession, regulation of the profession, ethical challenges facing accountants and auditors, fraud and the future of the profession. Professional accounting research and verbal and written communication emphasized.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ACCT 63024 INFORMATION TECHNOLOGY AUDIT: CONTROLS AND ANALYTICS 3 Credit Hours**

(Slashed with ACCT 73024) Students apply data analytics to the audit of controls and security of accounting information systems. Includes examining the role of the IT audit function and applicable auditing standards; identifying system risks and evaluating controls in Enterprise Resource Planning (ERP) systems. Data analytics, writing and professional ethics are emphasized.

**Prerequisite:** ACCT 43010; and ACCT 53014; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ACCT 63025 ANALYSIS AND VALUATION OF BUSINESS USING FINANCIAL STATEMENTS 3 Credit Hours**

(Slashed with ACCT 73025) Develops a conceptual framework of how firms generate value and how firm value is captured in financial statements. The role of financial analysts and the regulatory framework in the financial and credit markets are discussed. Students learn how to derive firm value using valuations models and financial statements and non-financial data.

**Prerequisite:** ACCT 33001 or ACCT 63037; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter



**ACCT 63030 INTERNATIONAL ACCOUNTING 3 Credit Hours**

(Slashed with ACCT 73030) Study of reporting in United States capital markets for domestic and foreign firms; evaluation of differences in accounting, auditing and financial reporting between nations; impact of international operations on accounting for decision making; impact of international financial reporting standards (IFRS). Interpersonal skills emphasized.

**Prerequisite:** ACCT 33012; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ACCT 63031 ADVANCED AUDITING THEORY AND PRACTICE 3 Credit Hours**

(Slashed with ACCT 73031) Advanced conceptual and practical understanding of audit methodology and role of auditors. Focus on use of professional judgment in applying auditing standards on ethical considerations and on fraud. Review of current trends and developments in the public accounting profession. Written communication and ethical decision making emphasized.

**Prerequisite:** ACCT 43010; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ACCT 63032 ACCOUNTING THEORY, HISTORY AND INSTITUTIONS 3 Credit Hours**

(Slashed with ACCT 73032) Survey of history of accounting and development of principles, followed by intensive study of theoretical problems related to determination of income and presentation of financial position. Written communication and ethical decision-making skills covered.

**Prerequisite:** ACCT 33012; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ACCT 63037 FINANCIAL ACCOUNTING FOR DECISION MAKING 2 Credit Hours**

(Slashed with ACCT 73037) In-depth study of financial accounting concepts and basic financial statements. Includes an examination of the significant accounting issues affecting financial reporting and their impact on analysis and interpretation of financial information for decision-making. Course may not be used to fulfill requirements in the Master of Science in Accounting degree.

**Prerequisite:** Graduate standing; open only to students declared in the MBA and MA degrees.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**ACCT 63038 MANAGERIAL ACCOUNTING FOR DECISION MAKING 2 Credit Hours**

(Slashed with ACCT 73038) An in-depth study of cost accounting concepts and cost behavior for measuring product and service costs, pricing products and services, planning and controlling business operations and making business decisions. Course may not be used to fulfill requirements in the Master of Science in Accounting degree.

**Prerequisite:** ACCT 63037; and graduate standing; open only to students declared in the MBA and MA degrees.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**ACCT 63042 TAXATION OF CORPORATIONS AND SHAREHOLDERS 3 Credit Hours**

An in-depth study of tax law that pertains to corporations and shareholders; corporate formation, distributions, liquidation and reorganization. Tax research primarily through the Internal Revenue Code and Treasury Regulations. Verbal and written communication skills are emphasized.

**Prerequisite:** ACCT 43031; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ACCT 63043 TAXATION OF PARTNERSHIPS AND PARTNERS 3 Credit Hours**

An in-depth study of formation, operation, termination and liquidation and other special problems of partnerships and S corporations. Tax research primarily through the Internal Revenue Code and Treasury Regulations. Verbal and written communication skills are emphasized.

**Prerequisite:** ACCT 53033; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ACCT 63045 TAX RESEARCH AND PLANNING 3 Credit Hours**

Introduction to tax research methodology and tax preparer standards, with an emphasis on effectively communicating tax outcomes via written communications.

**Prerequisite:** ACCT 53033; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ACCT 63092 INTERNSHIP 3 Credit Hours**

(Repeatable for credit) Supervised practical experience with public accounting firm, corporation, governmental or not-for-profit organization. Periodic reports required. Students must have a 3.000 GPA in all attempted ACCT courses to register.

**Prerequisite:** Minimum C grade in ACCT 33010 and ACCT 33012; and minimum 3.000 overall GPA; and Accounting major; and graduate standing; and special approval.

**Schedule Type:** Practical Experience

**Contact Hours:** 9 other

**Grade Mode:** Satisfactory/Unsatisfactory

**ACCT 63093 VARIABLE TITLE WORKSHOP IN ACCOUNTING 1-3 Credit Hours**

(Repeatable for credit) Topic to be determined when a specific course is proposed for a particular term.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Workshop

**Contact Hours:** 1-3 other

**Grade Mode:** Satisfactory/Unsatisfactory

**ACCT 63098 RESEARCH IN ACCOUNTING 1-3 Credit Hours**

(Repeatable for credit) (Slashed with ACCT 73098) Review of sources, techniques and methodology. Individually selected topic is investigated and reported in formal paper.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Research

**Contact Hours:** 1-3 other

**Grade Mode:** Standard Letter



**ACCT 73022 PROFESSIONAL ISSUES AND ETHICS IN ACCOUNTING 3 Credit Hours**

(Slashed with ACCT 63022) Students investigate issues confronting the accounting profession today by reviewing the past, examining the present and looking into the future. Topics covered include history and characteristics of the profession, regulation of the profession, ethical challenges facing accountants and auditors, fraud and the future of the profession. Professional accounting research and verbal and written communication emphasized.

**Prerequisite:** Doctoral standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ACCT 73024 INFORMATION TECHNOLOGY AUDIT: CONTROLS AND ANALYTICS 3 Credit Hours**

(Slashed with ACCT 63024) Students apply data analytics to the audit of controls and security of accounting information systems. Includes examining the role of the IT audit function and applicable auditing standards; identifying system risks and evaluating controls in Enterprise Resource Planning (ERP) systems. Data analytics, writing and professional ethics are emphasized.

**Prerequisite:** ACCT 43010; and ACCT 53012; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ACCT 73025 ANALYSIS AND VALUATION OF BUSINESS USING FINANCIAL STATEMENTS 3 Credit Hours**

(Slashed with ACCT 63025) Develops a conceptual framework of how firms generate value and how firm value is captured in financial statements. The role of financial analysts and the regulatory framework in the financial and credit markets are discussed. Students learn how to derive firm value using valuations models and financial statements and non-financial data.

**Prerequisite:** ACCT 33001 or ACCT 63037; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ACCT 73030 INTERNATIONAL ACCOUNTING 3 Credit Hours**

(Slashed with ACCT 63030) Study of reporting in United States capital markets for domestic and foreign firms; evaluation of differences in accounting, auditing and financial reporting between nations; impact of international operations on accounting for decision making; impact of international financial reporting standards (IFRS). Interpersonal skills emphasized.

**Prerequisite:** ACCT 33012; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ACCT 73031 ADVANCED AUDITING THEORY AND PRACTICE 3 Credit Hours**

(Slashed with ACCT 63031) Advanced conceptual and practical understanding of audit methodology and role of auditors. Focus on use of professional judgment in applying auditing standards, on ethical considerations, and on fraud. Review of current trends and developments in the public accounting profession. Written communication and ethical decision making emphasized.

**Prerequisite:** ACCT 43010; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ACCT 73032 ACCOUNTING THEORY, HISTORY AND INSTITUTIONS 3 Credit Hours**

(Slashed with ACCT 63032) Survey of history of accounting and development of principles, followed by intensive study of theoretical problems related to determination of income and presentation of financial position. Written communication and ethical decision-making skills covered.

**Prerequisite:** ACCT 33012; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ACCT 73037 FINANCIAL ACCOUNTING FOR MANAGERIAL ACTION 3 Credit Hours**

(Slashed with ACCT 63037) In-depth study of financial accounting concepts and basic financial statements. Includes an examination of the significant accounting issues affecting financial reporting and their impact on analysis and interpretation of financial information for decision-making.

**Prerequisite:** Doctoral standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ACCT 73038 ACCOUNTING FOR MANAGERIAL ACTION AND EVALUATION 3 Credit Hours**

(Cross-listed with ACCT 63038) Review of cost accounting concepts and cost behavior. In depth study of analyzing costs for pricing and product mix decisions activity based cost systems budgeting planning and control issues methods of remaining competitive in a global environment compensation issues.

**Prerequisite:** Doctoral standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ACCT 73093 VARIABLE TITLE WORKSHOP IN ACCOUNTING 1-3 Credit Hours**

(Repeatable for credit) Topic to be determined when a specific course is proposed for a particular term.

**Prerequisite:** Doctoral standing; and special approval.

**Schedule Type:** Workshop

**Contact Hours:** 1-3 other

**Grade Mode:** Satisfactory/Unsatisfactory

**ACCT 73098 RESEARCH IN ACCOUNTING 1-3 Credit Hours**

(Repeatable for credit) (Slashed with ACCT 63098) Review of sources, techniques and methodology. Individually selected topic is investigated and reported in formal paper.

**Prerequisite:** Accounting major; and doctoral standing.

**Schedule Type:** Research

**Contact Hours:** 1-3 other

**Grade Mode:** Standard Letter-IP

**ACCT 83031 AUDITING ISSUES 3 Credit Hours**

Course provides doctoral students with an opportunity to broaden their understanding of financial and operational auditing theory and research.

**Prerequisite:** ACCT 43010; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ACCT 83033 MANAGERIAL ACCOUNTING ISSUES 3 Credit Hours**

Course provides an opportunity to survey major research topics in managerial accounting. Students develop a sound conceptual basis for reading, interpreting, analyzing, criticizing and conducting scholarly research on managerial accounting issues. Reading list includes research papers from various managerial accounting research areas and research methods.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ACCT 83037 FINANCIAL ACCOUNTING ISSUES 3 Credit Hours**

Course focuses on theoretical, analytical and empirical research in financial accounting and reporting. Emerging issues in financial accounting and reporting are examined.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ACCT 83038 BASIC ACCOUNTING RESEARCH METHODOLOGY 3 Credit Hours**

Course introduces students to basic concepts in accounting research and to the application of research methods in various accounting areas (e.g., financial, managerial, auditing and information systems).

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ACCT 83091 SEMINAR-SELECTED ACCOUNTING TOPICS 3 Credit Hours**

(Repeatable for credit) Topics vary with each offering.

**Prerequisite:** Doctoral standing; and special approval.

**Schedule Type:** Seminar

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**ACCT 83098 RESEARCH IN ACCOUNTING 3 Credit Hours**

Students develop and present a paper on an original accounting research topic under the supervision of faculty members. May extend beyond the semester.

**Prerequisite:** Doctoral standing; and special approval.

**Schedule Type:** Research

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

## Accounting Technology (ACTT)

**ACTT 11000 ACCOUNTING I: FINANCIAL 4 Credit Hours**

(Equivalent to ACCT 23020) Introduction to financial accounting, including principles generally accepted when preparing accounting statements for users outside of the business organization.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 4 lecture

**Grade Mode:** Standard Letter

**ACTT 11001 ACCOUNTING II: MANAGERIAL 4 Credit Hours**

(Equivalent to ACCT 23021) Introduction to managerial accounting, including accounting for manufacturing firms, budgeting, standard cost systems, direct costing, segment reporting and cost-volume-profit (CVP) analysis.

**Prerequisite:** ACTT 11000.

**Schedule Type:** Lecture

**Contact Hours:** 4 lecture

**Grade Mode:** Standard Letter

**ACTT 11003 PAYROLL ACCOUNTING 3 Credit Hours**

Introduction to the payroll function, including preparation of payroll and related federal, state and local tax forms required of all businesses. Students study both manual and computerized applications.

**Prerequisite:** ACTT 11000.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ACTT 20012 ACCOUNTING SOFTWARE APPLICATIONS 3 Credit Hours**

Students explore accounting, spreadsheet and word processing software.

**Prerequisite:** ACTT 11001.

**Schedule Type:** Lecture

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**ACTT 21000 ACCOUNTING III: FINANCIAL 3 Credit Hours**

An intensive and practical study of financial accounting principles pertaining to balance sheet, income statement accounts and statement analyses.

**Prerequisite:** ACTT 11001.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ACTT 21001 ACCOUNTING IV-FINANCIAL 3 Credit Hours**

Continuation of ACTT 21000. Course covers income statement accounts and financial statement analyses. Students study both manual and computerized applications.

**Prerequisite:** ACTT 21000.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ACTT 21003 FUNDAMENTALS OF TAX PREPARATION 3 Credit Hours**

A non-technical presentation of federal income tax laws and regulations as they relate to individuals.

**Prerequisite:** ACTT 11000.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ACTT 21092 INTERNSHIP IN ACCOUNTING TECHNOLOGY (ELR) 2-3 Credit Hours**

(Repeatable for credit) Supervised field experience requires either minimum 14 hours each week for unpaid work experiences or minimum 20 hours each week for paid work experiences.

**Prerequisite:** ACTT 21000; and special approval.

**Schedule Type:** Practical Experience

**Contact Hours:** 24-36 other

**Grade Mode:** Satisfactory/Unsatisfactory

**Attributes:** Experiential Learning Requirement

**ACTT 21095 SPECIAL TOPICS IN ACCOUNTING TECHNOLOGY 1-3****Credit Hours**

(Repeatable for credit) Topics in accounting vary per course offering.

**Prerequisite:** Special approval.

**Schedule Type:** Lecture

**Contact Hours:** 1-3 lecture

**Grade Mode:** Standard Letter

**ACTT 21096 INDIVIDUAL INVESTIGATION IN ACCOUNTING TECHNOLOGY 1-3 Credit Hours**

(Repeatable for credit) Independent in-depth research of an accounting topic supervised and coordinated by an accounting technology faculty member.

**Prerequisite:** 12 credit hours of ACTT courses; and special approval.

**Schedule Type:** Individual Investigation

**Contact Hours:** 1-3 other

**Grade Mode:** Standard Letter

**ACTT 31063 INTRODUCTION TO COST ACCOUNTING 3 Credit Hours**

Cost accounting concepts and systems; role of costs in decision making; budgeting concepts and procedures; analysis of revenue, cost and income variances.

**Prerequisite:** ACTT 11001.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ACTT 36110 PRINCIPLES OF FRAUD EXAMINATION 3 Credit Hours**

Study of occupational fraud, abuse, detection and prevention within the realm of an enterprise.

**Prerequisite:** ACTT 11000 and ACTT 11001.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ACTT 36120 ETHICAL ISSUES RELATING TO FRAUD EXAMINATION 3 Credit Hours**

Understanding ethical dilemmas, issues and professionalism relating to fraud examination.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ACTT 46170 CASE STUDIES IN FRAUD EXAMINATION 3 Credit Hours**

Application of principles of fraud examination, detection and evaluation of recommended action plans to specific fraud cases.

**Prerequisite:** ACTT 36110 and IT 36318.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ACTT 46191 SEMINAR IN FRAUD EXAMINATION 3 Credit Hours**

(Repeatable for credit) Capstone course for students studying fraud examination and related areas. Students research, analyze and present current fraud issues.

**Prerequisite:** ACTT 46170 and special approval.

**Schedule Type:** Seminar

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

## Adolescent and Adult Education (ADED)

**ADED 20000 TOPICS IN SOCIAL JUSTICE IN TEACHING AND LEARNING 3 Credit Hours**

This course examines social justice issues that are central to teaching and learning across all educational contexts. In this course students will consider topics such as race, poverty, social class, LGBTQ youth and colleagues, socially responsive teaching, and at risk youth as they intersect with K-12 educational settings. This course will have a field experience to document some of the knowledge, skills, and dispositions for social justice in educational contexts learned throughout this course.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ADED 20020 EXPLORING SECONDARY SCIENCE TEACHING 1 Credit Hour**

This course is designed to allow students to learn and practice science teaching skills, develop real-world teaching experience in secondary schools, learn about research-based science teaching methods, and explore formal and informal science teaching careers. The course includes an associated field experience where students get to teach science lessons to local secondary students.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 1 lecture

**Grade Mode:** Standard Letter

**ADED 22275 ISSUES AND TRENDS IN SOCIAL STUDIES EDUCATION 3 Credit Hours**

A course that introduces you to the field of social studies education. In this course you will explore the history and current issues and trends in the field of social studies education.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ADED 32142 PRINCIPLES OF TEACHING ADOLESCENTS (WIC) 3 Credit Hours**

Orientation to adolescence and the teaching-learning process. This course includes 30 field-clinical hours in an urban setting. Students are required to complete Bureau of Criminal Investigation and Identification (BCII) and Federal Bureau of Investigation (FBI) background checks and submit the results to authorized personnel at their assigned school-agency before the first day of the semester in which student teaching internship will take place.

**Prerequisite:** ADED 20000; and admission to advanced study.

**Schedule Type:** Field Experience, Lecture

**Contact Hours:** 2 lecture, 2 other

**Grade Mode:** Standard Letter

**Attributes:** Writing Intensive Course

**ADED 32268 THE SECONDARY SCHOOL MATHEMATICS CURRICULUM**  
**3 Credit Hours**

The secondary school mathematics curriculum will be examined. Student's textbooks and recommendations will be investigated. This course includes 30 field clinical hours. Students are required to complete Bureau of Criminal Investigation and Identification (BCII) and Federal Bureau of Investigation (FBI) background checks and submit the results to authorized personnel at their assigned school/agency before the first day of the semester in which student teaching/ internship will take place.

**Prerequisite:** ADED 32142 and MATH 22005.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ADED 32275 CURRICULUM AND PEDAGOGY IN SOCIAL STUDIES** 3  
**Credit Hours**

A beginning social studies teaching and learning course. In this course you will explore how to achieve the purposes of social studies education through curriculum, instructional and planning decisions.

**Prerequisite:** ADED 22275 and ADED 32142; and admission to advanced study.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ADED 32277 TEACHING SCIENCE IN SECONDARY SCHOOLS** 3  
**Credit Hours**

Goals, methodology and resources for effective teaching of science to adolescents and young adults.

**Prerequisite:** ADED 32142.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ADED 42196 INDIVIDUAL PROJECT IN ADOLESCENT EDUCATION**  
**2-4 Credit Hours**

(Repeatable for credit) Independent study in Adolescent Education.

**Prerequisite:** Special approval.

**Schedule Type:** Individual Investigation

**Contact Hours:** 2-4 other

**Grade Mode:** Satisfactory/Unsatisfactory

**ADED 42268 TEACHING OF MATHEMATICS IN SECONDARY SCHOOLS**  
**3 Credit Hours**

Methodology and materials for effective teaching of secondary school mathematics will be discussed and implemented in field experiences. Course includes 46 field/clinical hours. Mathematics courses through MATH 22005.

**Prerequisite:** ADED 32268.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ADED 42275 TEACHING SOCIAL STUDIES IN GRADES 7 - 12** 3  
**Credit Hours**

An advanced social studies education teaching and learning course. Addresses a range of topics that will help you engage your 7th-12th grade students with social studies.

**Prerequisite:** Minimum C grade in ADED 32275; and admission to advanced study.

**Corequisite:** ADED 42292.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ADED 42277 TOPICS IN SECONDARY SCHOOL SCIENCE TEACHING**  
**3 Credit Hours**

Analysis of trends in science teaching and materials and methods for introducing topics from the history of science and from health education.

**Prerequisite:** ADED 32277; and admission to advanced study.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ADED 42292 FIELD WORK PRACTICUM (ELR)** 3  
**Credit Hours**

A minimum 96-hour field experience in a middle or high school. Observations, interviews, designing and teaching of lessons and debriefing. Students are required to complete Bureau of Criminal Investigation and Identification (BCII) and Federal Bureau of Investigation (FBI) background checks and submit the results to authorized personnel at their assigned school-agency before the first day of the semester in which student teaching internship will take place. Students must be on track for student teaching the following semester in order to register for this course.

**Prerequisite:** Minimum C grade in ADED 32268 or ADED 32275 or ADED 32277; or ADED 43325 and ADED 43335; and advanced study.

**Corequisite:** ADED 42268 or 42275 or 42277 or 43315.

**Schedule Type:** Practical Experience

**Contact Hours:** 9 other

**Grade Mode:** Standard Letter

**Attributes:** Experiential Learning Requirement

**ADED 42392 SECONDARY STUDENT TEACHING (ELR)** 9  
**Credit Hours**

Provides a full time student-teaching experience. Observations, interviews, designing and teaching of lessons and debriefing. Students are required to complete Bureau of Criminal Investigation and Identification (BCII) and Federal Bureau of Investigation (FBI) background checks and submit the results to authorized personnel at their assigned school-agency before the first day of the semester in which student teaching internship will take place. Official valid certification of Child Safety Training, approved Basic Life Support and A.L.I.C.E. Training must be presented to the campus office of clinical experience or designated faculty-staff at Regional campuses as prerequisite for student teaching. **Prerequisite:** Admission to advanced study; and Official valid certification of Child Safety Training, approved Basic Life Support and ALICE Training must be presented to the campus office of clinical experience or designated faculty/staff at Regional campuses as prerequisite for student teaching.

**Corequisite:** ADED 49525.

**Schedule Type:** Practical Experience

**Contact Hours:** 35 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**Attributes:** Experiential Learning Requirement

**ADED 43315 TEACHING LITERATURE IN THE SECONDARY SCHOOLS**  
**3 Credit Hours**

(Slashed with ADED 53315) Explores the pedagogy of canonical literature, literary theory and approaches to teaching texts in the secondary classroom.

**Prerequisite:** ADED 43335; and advanced standing.

**Corequisite:** ADED 42292.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ADED 43325 MULTI-MODAL LITERACIES IN THE SECONDARY CLASSROOM 3 Credit Hours**

Explores the pedagogies of reading and composing with a variety of print and non-print texts. Focuses on the impact of media culture on adolescent learners. Utilizes new literacies to enhance learning in the content area.

**Prerequisite:** Advanced standing.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**ADED 43335 TEACHING LANGUAGE AND COMPOSITION 3 Credit Hours**

Explores linguistic and rhetorical perspectives on the teaching of composition in secondary schools.

**Prerequisite:** MCED 40007; and advanced standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ADED 49525 INQUIRY INTO PROFESSIONAL PRACTICE 3 Credit Hours**

Reflection on teaching for the purpose of instructional improvement. Emphases are placed on preparing implementing and assessing a curricular unit collaborative problem solving conducting an action research project and creating a portfolio.

**Prerequisite:** Admission to advanced study.

**Corequisite:** ADED 42357.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ADED 52267 IMPROVING MATHEMATICS INSTRUCTION FOR ADOLESCENT AND ADULT EDUCATION 3 Credit Hours**

Methodology and materials for effective teaching of secondary school mathematics.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ADED 52277 TEACHING SCIENCE IN THE SECONDARY SCHOOL 3 Credit Hours**

Analysis of teaching materials, demonstrations and participation in science classes appropriate for graduate students seeking certification to teach science in the secondary school.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ADED 53315 TEACHING LITERATURE IN THE SECONDARY SCHOOLS 3 Credit Hours**

(Slashed with ADED 43315) Explores the pedagogy of canonical literature, literary theory and approaches to teaching texts in the secondary classroom.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ADED 62145 PRINCIPLES OF SECONDARY TEACHING 3 Credit Hours**

Principles of teaching adolescents including curriculum, planning instruction, assessment, fundamentals of evaluation, and reflective practice. All course content focuses on preparing teachers for secondary school teaching.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ADED 62191 SEMINAR IN SECONDARY EDUCATION 1-3 Credit Hours**

(Repeatable for credit) (Cross-listed with ADED 72191) Study and experience of various theoretical and methodological and practical approaches to special problems.

**Prerequisite:** Graduate standing.

**Schedule Type:** Seminar

**Contact Hours:** 1-3 other

**Grade Mode:** Standard Letter

**ADED 62192 ADVANCED PRACTICUM AND INTERNSHIP IN SECONDARY EDUCATION 1-10 Credit Hours**

(Repeatable for credit) Provides a student-teaching or internship experience. Observations, interviews, designing and teaching of lessons and debriefing. Students are required to complete Bureau of Criminal Investigation and identification (BCII) and Federal Bureau of Investigation (FBI) background checks and submit the results to authorized personnel at their assigned school-agency before the first day of the semester in which student teaching internship will take place. Official valid certification of Child Safety Training, approved Basic Life Support and A.L.I.C.E. Training must be presented to the campus office of clinical experience or designated faculty staff at Regional campuses as prerequisite for student teaching.

**Prerequisite:** Official valid certification of Child Safety Training, approved Basic Life Support and ALICE Training must be presented to the campus office of clinical experience or designated faculty/staff at Regional campuses as prerequisite for student teaching; and Graduate standing.

**Schedule Type:** Practical Experience

**Contact Hours:** 3-32 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**ADED 62198 RESEARCH IN SECONDARY EDUCATION 2-15 Credit Hours**

(Repeatable for credit) Students pursue an individualized research project under direction of instructor.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Research

**Contact Hours:** 2-15 other

**Grade Mode:** Standard Letter

**ADED 67147 TEACHING ADOLESCENTS IN THE SECONDARY SCHOOL CULTURE 3 Credit Hours**

Providing for motivation, discipline and instruction of adolescents within the culture of the secondary school.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter



**ADED 67232 SECONDARY SCHOOL SOCIAL STUDIES 3 Credit Hours**  
(Cross-listed with ADED 77232) General focus is on examining current instructional and curricular trends in teaching social studies. Emphasis is placed on strategies of teaching developing student's critical thinking skills role of the computer use of primary sources teaching controversial issues and stimulating active citizenship.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ADED 72191 SEMINAR IN SECONDARY EDUCATION 1-3 Credit Hours**

(Repeatable for credit) (Cross-listed with ADED 62191) Study and experience of various theoretical and methodological and practical approaches to special problems.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Seminar

**Contact Hours:** 1-3 other

**Grade Mode:** Standard Letter

## Aeronautics (AERN)

**AERN 12500 SURVEY OF AERONAUTICS 3 Credit Hours**

This course provides an overview of the air transportation industry and gives students a broad overview of career requirements and opportunities in several fields to include professional piloting, air traffic control and aviation management. Student will gain historical perspective while learning about emerging trends.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**AERN 15000 INTRODUCTION TO AERONAUTICS 3 Credit Hours**

Introduction to aeronautical and aerospace technology, including historical development, underlying science and technical applications. The past, present and future social, economic, technical and political impact of aviation are also explored.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**AERN 15250 FAA ORIENTATION 3 Credit Hours**

Introduction to the Federal Aviation Administration with particular emphasis on its role and impact on air traffic management and the National Airspace System (NAS). Course addresses the unique aspects and requirements of federal employment, as well as federal regulations affecting flight operations and the FAA's associated supporting agencies.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**AERN 15740 ELEMENTS OF FLIGHT THEORY 5 Credit Hours**

Basic instruction in all areas which gives the student aeronautical knowledge required for a private pilot certificate.

**Corequisite:** AERN 15741.

**Schedule Type:** Lecture

**Contact Hours:** 5 lecture

**Grade Mode:** Standard Letter-IP

**AERN 15741 PRIVATE PILOT FLIGHT 5 Credit Hours**

Flight course designed to fulfill FAA requirements for private pilot certificate. With special approval, this course may be repeated only once. Student is required to spend a minimum of 2 hours each day, five days a week, at the airport, until course requirements have been attained. When not flying, the student goes through personalized ground instruction. Minimum FAA flight time requirements towards the private pilot certificate is 48 hours. Actual flight training may exceed 48 hours. Special course fees apply. Please visit [www.kent.edu](http://www.kent.edu). Students must obtain Student Pilot Certificate and have and maintain valid medical and TSA approval prior to starting course.

**Prerequisite:** Must be a Professional Pilot concentration within the Aeronautics major.

**Corequisite:** AERN 15740 and MATH 11010.

**Schedule Type:** Flight Training

**Contact Hours:** 9 other

**Grade Mode:** Standard Letter-IP

**AERN 15745 NON-PILOT ELEMENTS OF FLIGHT THEORY 3 Credit Hours**

Basic instruction in areas to include: Federal Regulations, navigation, communication, airspace, weather, basic aerodynamics, and aero-medical factors which give the student a foundation in aeronautics. This course does not satisfy the Federal Aviation Regulation requirement for endorsement to take the Airman Knowledge Exam for a private pilot nor does it satisfy the Aircraft Dispatch minor.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**AERN 25100 INTRODUCTION TO AVIATION MANAGEMENT 3 Credit Hours**

Introduction to the day-to-day concepts of Airline, Airport, and other businesses pertaining to the aviation industry.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**AERN 25250 ELEMENTS OF AVIATION WEATHER 3 Credit Hours**

Aviation weather provides a comprehensive look at the Earth's atmosphere, general patterns and specific phenomena, and a focus on weather as related to flight.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**AERN 25251 WEATHER INFORMATION SYSTEMS 3 Credit Hours**

Introduction to various weather sensing equipment and the systems that deliver weather information to various users. An in-depth look at the National Weather Service, NOAA, NASA, FAA and commercially available weather information systems.

**Prerequisite:** AERN 25250 or GEOG 31062.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**AERN 25252 THUNDERSTORMS AND SEVERE WEATHER 3 Credit Hours**

Analysis and forecast of thunderstorm and severe convective weather activity development and movement. Analysis of atmospheric information and clouds, radar, computer models, and charts. A study of mid-latitude cyclones and some focused study on tropical depressions, hurricanes, tornadoes, dust and sand storms. Study includes geographic effects and cyclone life cycles. Provides an in-depth look at the development of severe weather products for aviation such as AIRMET, SIGMET and Convective SIGMET.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**AERN 25350 FUNDAMENTALS OF AIR TRAFFIC CONTROL 2 Credit Hours**

Introduction to the National Airspace System (NAS) and the orders, manuals, and procedures associated with the purposes and directives of the air traffic control environment. Introduces and discusses those areas of required knowledge of the AT-Basics needed to become an Air Traffic Controller. These topics include the principles of flight, the FARs, navigation, aviation weather and other ATC related areas.

**Prerequisite:** Aeronautics major.

**Corequisite:** AERN 25351.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**AERN 25351 FUNDAMENTALS OF AIR TRAFFIC CONTROL LABORATORY 1 Credit Hour**

Introductory laboratory course on air traffic management and the National Airspace System, the orders, manuals and procedures associated with the purposes and directives of the air traffic control environment. To include purposes and responsibilities of the ATC system.

**Prerequisite:** Aeronautics major.

**Corequisite:** AERN 25350.

**Schedule Type:** Laboratory

**Contact Hours:** 2 lab

**Grade Mode:** Standard Letter

**AERN 25743 COMMERCIAL PILOT FLIGHT I 2 Credit Hours**

Advanced flight course providing flight instruction for the commercial pilot. Primary emphasis is on cockpit resource management, advanced navigational practices and basic instrument instruction. With special approval, this course may be repeated only once. Student is required to spend a minimum of two hours daily, four days a week, at the airport until all course requirements have been attained. When not flying, the student goes through personalized ground instruction. Special course fees apply. Please visit [www.kent.edu/cae](http://www.kent.edu/cae) for a list of fees.

**Prerequisite:** A minimum C grade in both AERN 15740 and AERN 15741; and minimum 2.500 overall GPA; and must be in the Flight Technology (FLGT) concentration in the Aeronautics (AERN) major.

**Corequisite:** AERN 25250 and MATH 11010.

**Schedule Type:** Flight Training

**Contact Hours:** 2 other

**Grade Mode:** Standard Letter-IP

**AERN 25800 INTRODUCTION TO UNMANNED AIRCRAFT SYSTEMS 3 Credit Hours**

An overview of unmanned aircraft systems. Course topics include the history, development, and evolution of unmanned aircraft; current and forecast trends and issues; capabilities and performance of unmanned aircraft; UAS applications; regulations governing unmanned aircraft systems; unmanned aircraft flight operations; and opportunities and career paths in unmanned aircraft systems.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**AERN 30000 PROFESSIONAL DEVELOPMENT IN AERONAUTICS 1 Credit Hour**

The course will build upon the lessons learned in Professional Development in Aeronautics I by providing direct opportunities for interviewing and networking with professionals working in the aeronautics industry. Students will continue preparation for a career in the aeronautics industry by revising and implementing their career plan and goals.

**Prerequisite:** Junior standing.

**Schedule Type:** Seminar

**Contact Hours:** 1 lecture

**Grade Mode:** Standard Letter

**AERN 35001 AIRCRAFT FABRICATION 3 Credit Hours**

The study and laboratory practice of government approved procedures used in the fabrication, repair and testing of certificated aircraft.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**AERN 35020 AIRCRAFT PROPULSION SYSTEMS 3 Credit Hours**

A study of basic reciprocating and gas turbine engine theory. Course investigates powerplant construction, component function, including propeller and fuel systems, ancillary systems that support aircraft propulsive systems and performance characteristics.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**AERN 35021 RADAR SATELLITE WEATHER INFORMATION 3 Credit Hours**

A study of satellite and radar imagery. A focus on both passive and active remote sensing systems. Student develops an understanding of the properties of meteorological radar sensing, signal propagation and estimating precipitation. Provides an in-depth look at radar and satellite products and their application to aircrew operations. Emphasis is placed on real-time identification of weather phenomena affecting a flight in progress.

**Prerequisite:** AERN 25250 or GEOG 31062.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter



**AERN 35022 WEATHER STRATEGY FOR AIRCREWS 3 Credit Hours**

Flying strategies for various weather conditions to include low ceilings and visibility, turbulence, cold weather, thunderstorms, and wind shear. An exploration of basic and advanced weather theory and how to get the best use of FAA and commercially available forecast products and briefing services. Course takes a condition-by-condition look at various hazardous weather phenomena.

**Prerequisite:** AERN 25250 or GEOG 31062.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**AERN 35030 INTRODUCTION TO CORPORATE AVIATION 3 Credit Hours**

Introduces students to the business and corporate sectors of commercial aviation. Examines business and corporate aviation from the joint perspectives of operations and maintenance management as well as flight operations.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**AERN 35031 AIR TRANSPORTATION INDUSTRY REGULATIONS 3 Credit Hours**

This course will examine the functions of the regulatory agencies in the aviation industry. The evolution of Administrative Regulation, Federal Aviation Regulation and the rule making process.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**AERN 35040 AIRCRAFT SYSTEMS I 3 Credit Hours**

In-depth study of various aircraft systems including electrical systems, environmental control systems, and fuel systems as applied to aircraft.

**Prerequisite:** PHY 13012.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**AERN 35150 AIRCRAFT STRUCTURES 3 Credit Hours**

Aircraft structural design investigations dealing with theory and applications in aviation.

**Prerequisite:** PHY 13001.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**AERN 35250 UNMANNED AIRCRAFT SYSTEMS LAW AND REGULATIONS 2 Credit Hours**

This course introduces students to the changing and dynamic area of UAS laws and regulations. Students will study the Constitutional, statutory and regulatory sources of law. Students will study the Congressional and regulatory development of UAS laws. Students will learn how the regulatory process, advanced proposals of rulemaking and notice of proposed rule making operates. Students will also study pertinent case law regarding Constitutional, criminal, privacy issues, tort and products liability issues. Finally, students will learn and understand how to legally operate a UAS in the National Airspace System in an always changing legal and technology environment.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**AERN 35339 FIXED BASE OPERATOR OPERATIONS 3 Credit Hours**

A study of general aviation operations and the role of Fixed Base Operators in the National Aviation System; management functions; marketing; profit; cash flow; financing; human resources; organization; administration; management information systems; operations; maintenance; safety; liability; physical facilities; and the future of general aviation.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**AERN 35340 AIRPORT MANAGEMENT 3 Credit Hours**

Introduction to the many functions that are involved in the operation and management of an airport. Includes an analysis of the development of the airport- airway system, airport legislation, airport planning and airport operations.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**AERN 35341 AIR TRANSPORTATION SYSTEMS 3 Credit Hours**

Descriptive course in airline operations as seen from the air carrier's business perspective. Emphasis is on business practices and techniques unique to aviation.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**AERN 35342 TERMINAL OPERATIONS I 2 Credit Hours**

Intermediate level terminal operations course. Emphasis on tower operations at the clearance delivery, ground control, and local control positions. Topics covered will include, but not be limited to phraseology, procedures, LOAs and weather.

**Prerequisite:** AERN 25350 and AERN 25351; and AERN 15740 or

AERN 15745; and Aeronautics major.

**Corequisite:** AERN 35345.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**AERN 35343 EN ROUTE I 3 Credit Hours**

Introduction to en route operations of air traffic control. Focus on the non-RADAR foundations of en route operations. Topics covered include, but are not limited to phraseology, maps, LOAs, rules and procedures in a non-RADAR environment.

**Prerequisite:** AERN 25250, AERN 25251, AERN 35342 and AERN 35345; and Aeronautics major.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**AERN 35345 TERMINAL OPERATIONS I LABORATORY 1 Credit Hour**

Application of terminal air traffic control operating principles explored in AERN 35342 Terminal Operations I.

**Prerequisite:** AERN 25350 and AERN 25351; and AERN 15740 or

AERN 15745; and Aeronautics major.

**Corequisite:** AERN 35342.

**Schedule Type:** Laboratory

**Contact Hours:** 2 lab

**Grade Mode:** Standard Letter

**AERN 35644 INSTRUMENT FLIGHT THEORY 3 Credit Hours**

Course instruction on Instrument Flight to include, navigation facilities (both ground and aircraft), weather theory and weather specific to instrument meteorological conditions, weather charts and sources, cross-country flight planning for IFR, FAA regulations specific to IFR flight, Charts for Instrument Flight, Aircraft Performance, Decision Making, Aircraft Systems and Instruments related to IFR Flight, and Instrument Flight techniques and procedures. This course meets the requirements for endorsement to take the FAA Airman Knowledge Exam for an Instrument Rating and satisfies the requirements of the Training Course Outline approved by the FAA.

**Prerequisite:** AERN 15740 and AERN 25250; and Aeronautics major.

**Corequisite:** AERN 35645.

**Schedule Type:** Flight Training

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**AERN 35645 INSTRUMENT PILOT FLIGHT 2 Credit Hours**

Comprehensive flight course for the professional pilot candidate to meet the requirements of the FAA instrument rating. This course may be repeated only once. Student is required to spend a minimum of two hours daily, five days a week, at the airport until all course requirements have been attained. When not flying, the student goes through personalized ground instruction. Special course fees apply. Please visit [www.kent.edu](http://www.kent.edu) for a list of fees.

**Prerequisite:** Minimum C grade in AERN 25743; and minimum 2.500 overall GPA; and must be in the Flight Technology (FLGT) concentration in the Aeronautics major.

**Corequisite:** AERN 35644.

**Schedule Type:** Flight Training

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter-IP

**AERN 35647 COMMERCIAL PILOT FLIGHT II 2 Credit Hours**

Comprehensive flight course for the professional pilot candidate once. Student is required to spend a minimum of two hours each day, four days a week, at the airport until course requirements have been attained. Special course fees may apply. When not flying, the student goes through personalized ground instruction. Special course fees apply. Please visit [www.kent.edu](http://www.kent.edu) for a list of fees.

**Prerequisite:** Minimum C grade in AERN 35644; and AERN 35645; and minimum 2.500 overall GPA; and must be in the Flight Technology concentration in the Aeronautics major.

**Corequisite:** AERN 35746.

**Schedule Type:** Flight Training

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter-IP

**AERN 35650 NON-PILOT INSTRUMENT FLIGHT THEORY 3 Credit Hours**

Course instruction for instrument flight to include: navigation facilities and equipment (both ground and aircraft), general weather theory and weather related to instrument meteorological conditions, weather charts and sources, FAA regulations pertinent to the conduct of instrument flight, aeronautical charts for instrument flight and techniques and procedures unique to the conduct of instrument flight. This course does not satisfy the Federal Aviation Regulation requirement for endorsement to take the Airman Knowledge Exam for an Instrument Rating nor does it satisfy the Aircraft Dispatch minor.

**Prerequisite:** AERN 15740 or AERN 15745; and AERN 25250.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**AERN 35746 COMMERCIAL PILOT THEORY 2 Credit Hours**

Comprehensive instruction covering all areas necessary to exercise the privileges of a commercial pilot.

**Prerequisite:** AERN 35644.

**Corequisite:** AERN 35647.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**AERN 35747 COMMERCIAL PILOT FLIGHT III 2 Credit Hours**

Comprehensive flight course for the professional pilot candidate to meet the requirements of the FAA commercial pilot certificate. With special permission, this course may be repeated only once. Student is required to spend up to two hours daily, four days a week, at the airport until the course requirements been attained. When not flying, the student goes through personalized ground instruction. Special course fees apply. Please visit [www.kent.edu](http://www.kent.edu) for a list of fees.

**Prerequisite:** Minimum C grade in AERN 35647; and minimum 2.500 overall GPA; and must be in the Flight Technology concentration in the Aeronautics major.

**Schedule Type:** Flight Training

**Contact Hours:** 2 other

**Grade Mode:** Standard Letter-IP

**AERN 35749 COMMERCIAL PILOT HELICOPTER FLIGHT 3 Credit Hours**

Flight course designed to fulfill FAA requirements for the Commercial Pilot Helicopter certificate. This course may only be repeatable twice. Student is required to spend 1.5 hours each day, five days a week, at the airport, until the FAA minimum requirements are attained. When not flying, the student goes through personalized ground instruction with an assigned flight instructor. Minimum FAA flight time requirements towards the Commercial Pilot Helicopter Flight Certificate is 150 hours. Actual flight training may exceed 150 hours.

**Prerequisite:** AERN 15742 or AERN 15743; and minimum 2.500 overall GPA; and must be in the Flight Technology concentration in the Aeronautics major.

**Corequisite:** AERN 35746.

**Schedule Type:** Flight Training

**Contact Hours:** 5.5 other

**Grade Mode:** Standard Letter-IP

**AERN 35810 UNMANNED AIRCRAFT SYSTEMS 3 Credit Hours**

Provides an understanding of the theory of operation, architecture, and performance characteristics of various airborne-onboard systems and subsystems utilized in unmanned aerial vehicles. Also includes examination of aircraft materials, structural components, and configuration.

**Prerequisite:** AERN 25800.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**AERN 35830 UNMANNED AIRCRAFT SYSTEMS SENSING AND SENSOR SYSTEMS 3 Credit Hours**

An in-depth study of sensors and remote sensing systems used to support Unmanned Aircraft operations. Course emphasizes the theory, technical characteristics, capabilities, and operational use of various sensors and sensing systems. Course also investigates sensor data generation and sensing system image interpretation and analysis.

**Prerequisite:** AERN 25800.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**AERN 35840 UNMANNED AIRCRAFT SYSTEMS COMMAND, CONTROL AND COMMUNICATIONS 3 Credit Hours**

Explores the technological and operational aspects of ground-based and airborne command, control, and communications systems used in unmanned aircraft systems. Topics include UAV sense-and-avoid systems, data link systems, voice communications systems, telemetry systems, navigation systems, and manual and automatic flight control systems.

**Prerequisite:** AERN 35644 or AERN 35650; and AERN 35810.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**AERN 35892 SMALL UNMANNED AIRCRAFT SYSTEMS FLIGHT PRACTICUM (ELR) 2 Credit Hours**

Small Unmanned Aircraft Systems Operations Flight Practicum. Student is required to spend a minimum of 15 hours during the semester flying a small unmanned aircraft system. When not flying, the student goes through personalized ground instruction. Special emphasis will be placed on the regulatory requirements of sUAS operations, applied weather theory, mission planning and emergency procedures. Students must obtain FAA Part 107 Unmanned Aircraft System Certification prior to starting this course.

**Prerequisite:** AERN 25800.

**Schedule Type:** Flight Training, Practical Experience

**Contact Hours:** 1 lecture, 3 other

**Grade Mode:** Standard Letter-IP

**Attributes:** Experiential Learning Requirement

**AERN 45001 INITIAL DISPATCH I 2 Credit Hours**

Part I of III preliminary courses required for students not currently enrolled at Kent State University. Provided in order to meet Federal Aviation Regulation requirements under Part 65 for training to become an Aircraft Dispatcher. This course may be necessary as preliminary training to enroll in AERN 45010 and 45020 Aircraft Dispatch I and II respectively. Successful completion of Dispatch I and II results in authorization to take the FAA written and practical exams for the Aircraft Dispatcher certificate. Need for the course depends on previous coursework or FAA certificates completed.

**Prerequisite:** Special approval.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**AERN 45002 INITIAL DISPATCH II 2 Credit Hours**

Part II of III preliminary courses required for students not currently enrolled at Kent State University to enroll in Aircraft Dispatch I or Aircraft Dispatch II. This course is a continuation of training required by Part 65 of the Federal Aviation Regulations to earn an Aircraft Dispatcher Certificate. It may be required in order to meet the registration requirements for AERN 45010 and 45020, Aircraft Dispatch I and II of which successful completion results in authorization to take the FAA written and practical exams for the Aircraft Dispatcher Certificate. Need for the course depends on previous coursework or FAA certificates completed.

**Prerequisite:** Special approval.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**AERN 45003 INITIAL DISPATCH III 2 Credit Hours**

Part III of III preliminary courses required for students not currently enrolled at Kent State University to enroll in Aircraft Dispatch I or Aircraft Dispatch II. This course is the final course to complete preliminary training required by Part 65 of the Federal Aviation Regulations to earn an Aircraft Dispatcher Certificate. It may be required in order to meet the registration requirements for AERN 45010 and 45020, Aircraft Dispatch I and II respectively, of which successful completion results in authorization to take the FAA written and practical exams for the Aircraft Dispatcher Certificate. Need for the course depends on previous coursework or FAA certificates completed.

**Prerequisite:** Special approval.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**AERN 45010 AIRCRAFT DISPATCH I 3 Credit Hours**

This is the first of two courses required to qualify for the FAA Aircraft Dispatcher Airman Knowledge Test and the associated FAA Practical Exam for issuance of an Aircraft Dispatcher License. Topics include weather theory and weather services, regulations, aircraft systems, dispatch operations, decision making, human error, situational awareness, communications and aeronautical charts. Students must be 21 yrs of age or turn 21 during the semester taken. Special course fees apply. Prerequisite: AERN 35644 or AERN 35650; and special approval

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**AERN 45020 AIRCRAFT DISPATCH II 3 Credit Hours**

Second of two courses designated for the practical application of previously acquired knowledge necessary to perform aircraft dispatcher functions. Topics as applied to dispatch functions include briefing techniques, weather analysis and flight planning, aircraft systems, resource management, decision making, and cargo carrying. Completion required to earn a Graduation Certificate required by FAR Part 65 to qualify for a practical exam. An instructor endorsement to take the FAA aircraft dispatcher practical test is also required and is issued separately and solely at the discretion of the course instructor. Special course fees may apply. Please visit [www.kent.edu/caest/flight-technology](http://www.kent.edu/caest/flight-technology) and click on the Flight Course Fees link for more information. The student must be aged 21 or turn 21 during the semester taken.

**Prerequisite:** AERN 45010.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**AERN 45025 DISPATCH LABORATORY 1 Credit Hour**

Practical Aircraft Dispatch application and preparation for the ADX written, oral and practical exam.

**Prerequisite:** AERN 45010.

**Corequisite:** AERN 45020.

**Schedule Type:** Laboratory

**Contact Hours:** 2 lab

**Grade Mode:** Standard Letter

**AERN 45030 AIRCRAFT SYSTEMS II 3 Credit Hours**

Continuation of AERN 35040. An in-depth study of various aircraft systems including auxiliary systems, undercarriage, hydraulics, flight controls, instruments, and integrated systems as applied to aircraft.

**Prerequisite:** AERN 35040.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**AERN 45040 LABOR RELATIONS IN THE AVIATION INDUSTRY 3 Credit Hours**

Legislation governing labor relations in the private sector of the United States Economy consist of two separate and distinct pieces of legislation: the Railway Labor Act and the National Labor Relations Act. This course focuses on the examination of air transport labor relations in the context of these key laws. As the student of aviation management comes in contact with both Acts through this course, the student will learn similarities and differences of each and their resultant impact. The student will actively apply this knowledge in a mock labor relations negotiation.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**AERN 45099 AERONAUTICAL STUDIES CAPSTONE (ELR) 3 Credit Hours**

(Repeatable for credit) An in-depth study of the student's area of focus within aeronautical studies, culminating to a senior level project. At the discretion of the aeronautics faculty, students may substitute another capstone course for this course. Students must pass this capstone with a grade of C (2.000) or better in order to graduate.

**Prerequisite:** Senior standing.

**Schedule Type:** Senior Project/Honors Thesis

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter-IP

**Attributes:** Experiential Learning Requirement

**AERN 45100 AIRPORT OPERATIONS 3 Credit Hours**

This course focuses on the daily functions of Airport Operations. Students receive hands-on training in performing daily inspections at the Kent State Airport to evaluate and keep track of airfield discrepancies. Students will use a database to address the Airport Certification Manual and FAR Part 139 criteria.

**Prerequisite:** AERN 35340.

**Schedule Type:** Lecture, Research

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**AERN 45130 PHYSIOLOGY AND HUMAN FACTORS OF FLIGHT 3 Credit Hours**

A study of the interaction of the human body with flight and those human factors that affect flight operations.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**AERN 45135 AVIATION SAFETY THEORY 3 Credit Hours**

(Slashed with AERN 55135) An in-depth study of aviation human safety theories and the basics of risk and safety management.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**AERN 45150 APPLIED FLIGHT DYNAMICS I 3 Credit Hours**

(Slashed with AERN 55150) An applied aircraft flight dynamics course that demonstrates aircraft, engine and propeller performance with the overall flight performance and stability of the typical subsonic airplane. Emphasis is placed on the aerodynamics of flight.

**Prerequisite:** PHY 13001 or PHY 23101.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**AERN 45200 STRATEGIC AVIATION MANAGEMENT (ELR) 3 Credit Hours**

Serves as the capstone course for the aviation management area of concentration in aeronautics. As such, it is designed to address evolving issues and challenges in aviation management with a particular emphasis on airlines and airports through an application of previously mastered aviation management courses. Students must pass the course with a minimum grade of 'C' (2.000).

**Prerequisite:** AERN 45100; and senior standing.

**Schedule Type:** Lecture, Research

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter-IP

**Attributes:** Experiential Learning Requirement

**AERN 45250 AVIATION LAW 3 Credit Hours**

Involves a study of the origins of Western jurisprudence, common law and aviation law as an integral part of law in the U.S. Also introduces international aviation law by lateral agreement as well as U.S. Constitutional law and its amendments as they relate to the structure and process of aviation law. Criminal and civil law as they relate to civil aviation are also addressed. Case studies are included.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**AERN 45255 LEGAL ANALYSIS OF AVIATION AND ENGINEERING DISASTERS 2 Credit Hours**

This course examines legal issues of mass torts in the specific arena of aviation and engineering products liability, negligence and personal injury law. Special focus will be on class action law suits that give rise to mass tort litigation. Emphasis will be on strict product liability, design defect, manufacturing defect, negligence, defenses to negligence and the claims that have given rise to mass tort litigation in U.S. and International Jurisprudence. The Federal Torts Claims Act (FTCA) will be examined in the context of aviation and aerospace engineering.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**AERN 45320 TERMINAL OPERATIONS II 2 Credit Hours**

Advanced terminal course that focuses on the TRACON environment. Emphasis in vectoring and sequencing for approach at the primary airport. Topics covered will include, but not be limited to phraseology, maps, LOAs, and airspace.

**Prerequisite:** AERN 35342 and AERN 35345; and Aeronautics major.

**Corequisite:** AERN 45321.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter



**AERN 45321 TERMINAL OPERATIONS II LABORATORY 1 Credit Hour**  
Application of terminal air traffic control operating principles explored in AERN 45320 Terminal Operations II.

**Prerequisite:** AERN 35342 and AERN 35345; and Aeronautics major.

**Corequisite:** AERN 45320.

**Schedule Type:** Laboratory

**Contact Hours:** 2 lab

**Grade Mode:** Standard Letter

**AERN 45340 AIRCRAFT MAINTENANCE 3 Credit Hours**  
Fundamentals of aircraft maintenance and resolving maintenance problems on the flight line.

**Prerequisite:** Aeronautics major; and Senior standing; and special approval.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**AERN 45343 EN ROUTE II 2 Credit Hours**  
Advanced en route course that focuses on low altitude, en route operations. Some time is spent on high altitude and special operations as well. Topics covered include, but not limited to phraseology, procedures, LOAs and maps.

**Prerequisite:** AERN 45320 and AERN 45321; and Aeronautics major.

**Corequisite:** AERN 45344.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**AERN 45344 EN ROUTE II LABORATORY 1 Credit Hour**  
Application of en route air traffic control operating principles explored in AERN 45343 En Route II.

**Prerequisite:** Aeronautics major.

**Corequisite:** AERN 45343.

**Schedule Type:** Laboratory

**Contact Hours:** 2 lab

**Grade Mode:** Standard Letter

**AERN 45349 SYSTEMS MAINTENANCE AND RELIABILITY 5 Credit Hours**  
Combines theories of systems and operations with practical experience to meet FAA standards for an airframe and powerplant license (300 hours shop experience).

**Prerequisite:** AERN 45340.

**Schedule Type:** Lecture

**Contact Hours:** 5 lecture

**Grade Mode:** Standard Letter

**AERN 45360 PROFESSIONAL DEVELOPMENT IN AERONAUTICS III 1 Credit Hour**  
Seminar on selected topics relating to problems, issues and conditions of employment within aviation.

**Prerequisite:** AERN 30000; and senior standing.

**Schedule Type:** Lecture

**Contact Hours:** 1 lecture

**Grade Mode:** Standard Letter

**AERN 45399 AIR TRAFFIC CONTROL CAPSTONE (ELR) 1 Credit Hour**  
The culminating experience for the Air Traffic Control program of study. Students will work in groups to research and present a possible solution to a current event in the world of aviation and air traffic control.

**Prerequisite:** AERN 45343 and AERN 45344; and aeronautics major.

**Schedule Type:** Project or Capstone

**Contact Hours:** 1 lecture

**Grade Mode:** Standard Letter

**Attributes:** Experiential Learning Requirement

**AERN 45400 AVIATION MAINTENANCE LAW AND REGULATIONS 2 Credit Hours**

This course introduces students to the history, development of case law, statutory law and regulatory law of aviation maintenance. Special emphasis will be placed on the Federal Aviation Regulations and how they influence the Airframe and Power Plant Mechanic. Students will learn how the regulatory process works, the certification of mechanics works, and how to effectively read and interpret FAA regulations.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**AERN 45499 AIR TRAFFIC CONTROL CAPSTONE LABORATORY (ELR) 2 Credit Hours**

The culminating experience for the Air Traffic Control program of study. Students participate in realistic simulations where students take the roles within all three areas of ATC (Tower, TRACON, and ARTCC). These scenarios often involve multiple domains simultaneously where students must work together to successfully finish, simulating a normal day for many controllers. Pre/corequisites: AERN 45399

**Prerequisite:** AERN 45343 and AERN 45344; and aeronautics major.

**Schedule Type:** Laboratory, Project or Capstone

**Contact Hours:** 4 lab

**Grade Mode:** Standard Letter

**Attributes:** Experiential Learning Requirement

**AERN 45648 THEORY OF FLIGHT INSTRUCTION (ELR) 3 Credit Hours**

Detailed fundamentals of teaching flight and ground instruction and the analysis of flight techniques, in order to meet requirements of FAR's part 61.185(a).

**Prerequisite:** AERN 35040, AERN 35746, AERN 35747 and AERN 45150.

**Corequisite:** AERN 45649.

**Schedule Type:** Flight Training

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Experiential Learning Requirement

**AERN 45649 FLIGHT INSTRUCTOR/AIRPLANES 2 Credit Hours**

Flight course with emphasis on instructing techniques in aircraft from right seat. Includes student evaluation techniques to meet Federal Aviation Regulation for certified flight instructor. With special approval, this course may be repeated only once. Student is required to spend a minimum of two hours daily, five days a week, at the airport until course requirements have been attained. When not flying, the student goes through personalized ground instruction. Special course fees apply. Please visit [www.kent.edu](http://www.kent.edu) for a list of fees.

**Prerequisite:** AERN 35747; and minimum C grade in AERN 35746; and must be in the Flight Technology concentration in the Aeronautics major.

**Corequisite:** AERN 45648.

**Schedule Type:** Flight Training

**Contact Hours:** 9 other

**Grade Mode:** Standard Letter-IP

**AERN 45651 FLIGHT INSTRUCTOR-INSTRUMENTS 2 Credit Hours**

Flight course with emphasis on flight instructing techniques involved with instrument flight and air traffic control procedures. With special approval this course may be repeated only once. Student is required to spend a minimum of two hours daily, three days a week, at the airport until course requirements have been met. When not flying, the student goes through personalized ground instruction. Special course fees apply. Please visit [www.kent.edu](http://www.kent.edu) for more information.

**Prerequisite:** AERN 45649; and AERN 45648 with a minimum C grade; and minimum 2.500 overall GPA; and must be in the Flight Technology concentration in the Aeronautics major.

**Schedule Type:** Flight Training

**Contact Hours:** 2 lecture, 9 other

**Grade Mode:** Standard Letter-IP

**AERN 45653 MULTI-ENGINE PILOT FLIGHT 1 Credit Hour**

Course provides the required ground and flight instruction necessary to qualify students for the multi-engine rating from the FAA. With special approval this course may be repeated only once. Student is required to spend a minimum of two hours daily, three days a week, at the airport until course requirements have been attained. When not flying, the student goes through personalized ground instruction. Special course fees apply. Please visit [www.kent.edu](http://www.kent.edu) for more information.

**Prerequisite:** AERN 35747; and minimum 2.500 overall GPA; and must be in the Flight Technology concentration in the Aeronautics major.

**Schedule Type:** Flight Training

**Contact Hours:** 1 lecture, 9 other

**Grade Mode:** Standard Letter-IP

**AERN 45655 ADVANCED MULTI-ENGINE PILOT FLIGHT 1 Credit Hour**

Ground flight instruction for proficiency and required hours in preparation for multi-engine instruction. Special course fees may apply. Please visit [www.kent.edu/caest/flight-technology](http://www.kent.edu/caest/flight-technology) and click on the Flight Course Fees link for more information.

**Prerequisite:** AERN 45653; and minimum 2.500 overall GPA; and must be in the Flight Technology concentration in the Aeronautics major.

**Schedule Type:** Flight Training

**Contact Hours:** 9 other

**Grade Mode:** Standard Letter-IP

**AERN 45657 MULTI-ENGINE FLIGHT INSTRUCTOR 1 Credit Hour**

Course provides the necessary ground and flight instruction to professionally qualify students for the multi-engine instructor rating by the FAA. This course may be repeated only twice. Student is required to spend two hours daily, three days a week, at the airport. When not flying, the student goes through personalized ground instruction with the flight instructor. Special course fees may apply. Please visit [www.kent.edu/caest/flight-technology](http://www.kent.edu/caest/flight-technology) and click on the Flight Course Fees link for more information.

**Prerequisite:** AERN 45649 and AERN 45655; and minimum 2.500 overall GPA; and must be in the Flight Technology concentration in the Aeronautics major.

**Schedule Type:** Flight Training

**Contact Hours:** 9 other

**Grade Mode:** Standard Letter-IP

**AERN 45659 UPSET RECOVERY TRAINING 1 Credit Hour**

Consisting of both ground school and hands-on flight components, this upset training course prepares pilots for emergency situations they may encounter that cannot properly be replicated in a typical GA aircraft. Extensive piston driven and swept wing jet aerodynamic characteristics, accident analysis and recovery profile. Special course fees may apply. Please visit [www.kent.edu/caest/flight-technology](http://www.kent.edu/caest/flight-technology) and click on the Flight Course Fees link for more information.

**Prerequisite:** AERN 15741; and minimum 2.500 overall GPA; and must be in the Flight Technology concentration in the Aeronautics major.

**Schedule Type:** Flight Training

**Contact Hours:** 9 other

**Grade Mode:** Standard Letter

**AERN 45710 TURBINE ENGINE THEORY AND OPERATION 2 Credit Hours**

An in-depth study of the theory, operation and performance of turbine turboprop engines and associated systems.

**Prerequisite:** AERN 35020.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**AERN 45711 TURBINE ENGINE THEORY AND OPERATION LABORATORY 1 Credit Hour**

Laboratory using a turboprop flight simulator to provide instruction and demonstration of the operating characteristics and procedures associated with turbine/turboprop engines. Special course fees may apply. Please visit [www.kent.edu/caest/flight-technology](http://www.kent.edu/caest/flight-technology) and click on the Flight Course Fees link for more information.

**Prerequisite:** AERN 35020; and Aeronautics major.

**Pre/corequisite:** AERN 45710.

**Schedule Type:** Private Lesson

**Contact Hours:** 1 other

**Grade Mode:** Standard Letter

**AERN 45720 CREW RESOURCE MANAGEMENT 2 Credit Hours**

An in-depth study of the common principles of aviation crew resource management (CRM) and human factors as utilized by air transport flight crews.

**Prerequisite:** AERN 45130.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter-IP

**AERN 45721 CREW RESOURCE MANAGEMENT LABORATORY 1 Credit Hour**

Flight simulator-based laboratory that includes flight simulator experiences that integrate crew resource management (CRM) and line-oriented flight training (LOFT) in a multicrew environment. Special course fees may apply. Please visit [www.kent.edu/caest/flight-technology](http://www.kent.edu/caest/flight-technology) and click on the Flight Course Fees link for more information.

**Prerequisite:** AERN 45130.

**Pre/corequisite:** AERN 45720.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 1 other

**Grade Mode:** Standard Letter-IP

**AERN 45730 APPLIED TRANSPORT CATEGORY AIRCRAFT SYSTEMS**  
**3 Credit Hours**

Course examines various systems in use on air transport aircraft. The course emphasis is on the principles, operation and limitations of complex, integrated systems found in modern aircraft.

**Prerequisite:** AERN 35020.

**Corequisite:** AERN 45030.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**AERN 45740 FLIGHT MANAGEMENT SYSTEMS 3 Credit Hours**

Course examines various advanced avionics systems used on air transport type aircraft. The course emphasis is on the principles, operation and limitations of integrated avionics related to the 'glass cockpit' found on modern aircraft.

**Prerequisite:** AERN 45030 and AERN 45350.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**AERN 45750 AEROSPACE MEDICINE 2 Credit Hours**

This course examines the medical and legal issues of regulating the presence of humankind in aviation. Special emphasis will be given to the medical conditions that human life encounters when exposed to machines and different environments including atmospheric and non-atmospheric flight. Students will study the history, physiology and environment, clinical issues, operational issues, legal issues and future issues of aerospace medicine.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**AERN 45791 AVIATION SECURITY AND POLICY SEMINAR (WIC) 3 Credit Hours**

(Slashed with AERN 55791) Examines policies, practices, procedures and regulatory provisions developed to create and enhance security in civil aviation with a special emphasis on airlines, airports, airspace and agencies responsible for civil aviation security.

**Prerequisite:** AERN 45250.

**Schedule Type:** Seminar

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**Attributes:** Writing Intensive Course

**AERN 45800 UNMANNED AIRCRAFT SYSTEMS FLIGHT OPERATIONS THEORY 4 Credit Hours**

Classroom instruction to provide the general information and knowledge necessary to prepare students to pilot and operate unmanned aircraft. Emphasis is placed on the acquisition of knowledge required to engage in UAS flight operations, specifically focused on piloting UAVs and managing UAV sensors. This course provides students with the background knowledge required to begin flight training and to perform real-time mission management operations for high performance unmanned aircraft systems.

**Prerequisite:** AERN 25350; and AERN 25351; and AERN 35644 or AERN 35650; and AERN 35830; and AERN 35840; and AERN 45150.

**Schedule Type:** Lecture

**Contact Hours:** 4 lecture

**Grade Mode:** Standard Letter

**AERN 45892 UNMANNED AIRCRAFT SYSTEMS FLIGHT PRACTICUM 2 Credit Hours**

Unmanned Aircraft Systems Operations Flight Practicum. Student is required to spend a minimum of 15 hours during the semester flying an unmanned aircraft system. When not operating an unmanned system, the student goes through personalized ground instruction. Special emphasis will be placed on flying commercial UAS, fixed wing platforms and other commercial platforms. Students will deepen their knowledge of regulatory requirements of UAS operations, applied weather theory, mission planning and emergency procedures. Students must obtain FAA Part 107 Unmanned Aircraft System Certification prior to starting this course. Flight Fees apply.

**Prerequisite:** AERN 25800 and AERN 35815.

**Schedule Type:** Flight Training, Practical Experience

**Contact Hours:** 1 lecture, 3 other

**Grade Mode:** Standard Letter-IP

**AERN 45900 AEROELASTICITY 3 Credit Hours**

Review of beam analysis. Structural dynamics of one-dimensional systems. Analysis of static aeroelastic phenomena, unsteady aerodynamics and flutter. Equations of motion for complete aeroelastic systems; solution techniques.

**Prerequisite:** AERN 35150 and ENGR 33111.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**AERN 55135 AVIATION SAFETY THEORY 3 Credit Hours**

(Slashed with AERN 45135) An in-depth study of aviation human safety theories and the basics of risk and safety management.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**AERN 55150 APPLIED FLIGHT DYNAMICS I 3 Credit Hours**

(Slashed with AERN 45150) An applied aircraft flight dynamics course that demonstrates aircraft, engine and propeller performance with the overall flight performance and stability of the typical subsonic airplane. Emphasis is placed on the aerodynamics of flight.

**Prerequisite:** AERN 15000; and MATH 11012 or MATH 12002; and PHY 13001 and PHY 13002 (or PHY 23101 and PHY 23102); and graduate standing.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**AERN 55350 AVIONICS 3 Credit Hours**

(Slashed with AERN 45350) A study of aviation electronic systems in flight vehicles that pertain to communication, navigation and air traffic control systems.

**Prerequisite:** PHY 13001 and PHY 13012; and graduate standing.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter



**AERN 55700 AIRCRAFT DESIGN 3 Credit Hours**

(Slashed with AERN 45700) First of a two-course series of aerospace design. Preliminary design or case study of an aerospace vehicle, including but not limited, to aircraft, rotorcraft and spacecraft. Primary focus on introduction to design, decision-making in design and preliminary sizing of an aerospace vehicle to meet customer requirements. Final technical report and presentation.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**AERN 55791 AVIATION SECURITY AND POLICY SEMINAR 3 Credit Hours**

(Repeatable for credit) (Slashed with AERN 45791) Examines policies, practices, procedures and regulatory provisions developed to create and enhance security in civil aviation with a special emphasis on airlines, airports, airspace and agencies responsible for civil aviation security.

**Prerequisite:** Graduate standing.

**Schedule Type:** Seminar

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**AERN 61091 AEROSPACE SEMINAR 1 Credit Hour**

(Repeatable for a maximum of three semesters) Discussions of selected technical topics related to aerospace technology.

**Prerequisite:** Graduate standing.

**Schedule Type:** Seminar

**Contact Hours:** 1 other

**Grade Mode:** Standard Letter

**AERN 65091 SEMINAR IN EMERGING ISSUES IN AVIATION LOGISTICS 2 Credit Hours**

Guided by issues set forth by the International Air Cargo Association the Cargo Airlines Association, this variable content seminar will provide an interactive, dynamic and in-depth discussion on topics of immediate concern for the air freight industry.

**Prerequisite:** AERN 65100; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**AERN 65092 PRACTICUM IN AERONAUTICS 1 Credit Hour**

(Repeatable for credit) Up to 6 total credit hours of practicum to gain experience in the aerospace or aviation industry managing various aspects of logistics. Logistic projects related to systems analysis, product or vehicle movement, legal and ethical issues, economic issues, international needs, safety, human resources and managerial assessment, or other aspects of managing logistics as approved are the focus of the course.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Practical Experience

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter-IP

**AERN 65095 SPECIAL TOPICS IN AERONAUTICS 1-4 Credit Hours**

(Repeatable for a maximum of 15 credit hours) Study of special topics that focus on subjects and issues in aeronautics.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 1-4 lecture

**Grade Mode:** Standard Letter

**AERN 65100 LOGISTICAL STRATEGIES IN AVIATION MANAGEMENT 2 Credit Hours**

This course presents the business of aviation logistics and its role in the global supply chain by examining different product sectors using air freight. By means of both domestic and international example, it then details some of the challenges facing the air cargo industry today and presents possible management options for their resolution.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**AERN 65150 LEGAL AND REGULATORY ISSUES FOR AIR CARGO MANAGEMENT 2 Credit Hours**

With a focus on both the domestic and global marketplace, this course provides in-depth coverage of the regulatory bodies and the protocols and procedures that govern the air cargo industry.

**Prerequisite:** AERN 65100; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**AERN 65199 THESIS I 2-6 Credit Hours**

Thesis students must register for a minimum of 6 hours, 2 to 6 hours in a single semester distributed over several semesters if desired.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Masters Thesis

**Contact Hours:** 2-6 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**AERN 65200 AVIATION ECONOMICS AND FISCAL MANAGEMENT 2 Credit Hours**

Using examples from across key industries that make up the aviation sector, this course examines profit strategies employed by cargo-carrying airlines, all-cargo carriers, airports, ground transportation providers, and others with an aim of highlighting their role in and their impact on the business of air freight.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**AERN 65201 AVIATION INDUSTRY CONTRACT MANAGEMENT 2 Credit Hours**

The course provides students with practical experience in the realm of aviation contracts.

**Prerequisite:** MIS 64041; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**AERN 65230 MODELING AND FORECASTING FOR AVIATION LOGISTICS PLANNING 2 Credit Hours**

This course presents topics and techniques necessary to understand and develop an aviation logistics model such that an accurate and effective aviation demand forecast can be made.

**Prerequisite:** AERN 65100 and AERN 65200; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**AERN 65235 HUMAN ERROR ANALYSIS IN AVIATION 2 Credit Hours**

Provides an in-depth look at human error and its implications in the realm of safety using examples from the aviation industry. Includes a basic overview of human error, discussion on the models available to examine error, provides knowledge on how to classify and provide recommendations of intervention strategies. A focus will be on the SHELL Model, the Human Factors Analysis and Classification System, and the 5M model. This course will use real examples of accidents and incidents for students to apply these strategies.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**AERN 65240 AVIATION SAFETY MANAGEMENT SYSTEMS 2 Credit Hours**

An in-depth study of the concepts and principles of aviation safety management and aviation Safety Management Systems (SMS). Provides a fundamental knowledge of SMS safety policy, safety risk management, safety assurance, and safety promotion. Also includes a thorough analysis of the design, implementation, and management of Safety Management Systems and its incorporation into various aviation sectors.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**AERN 65250 APPLIED HUMAN FACTORS ENGINEERING 3 Credit Hours**

Survey of human factors engineering and ergonomics, emphasizing the human-centered approach to systems, product, workplace, and machine design. Discussions will include human factors research and design methodologies, human factors fundamentals (e.g., sensation and perception, information processing, anthropometry) and applications of human factors for the design of workplace and environment.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**AERN 65270 HUMAN FACTORS IN SYSTEMS DESIGN 3 Credit Hours**

Human factors input into operator-system design, development, testing, and evaluation. Emphasis on the systems approach to human-machine-interface, with discussion and application of specific methodologies and analytical techniques. Highly focus on design of display and control systems.

**Prerequisite:** Graduate standing.

**Pre/corequisite:** AERN 65250.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**AERN 65280 HUMAN INFORMATION PROCESSING 3 Credit Hours**

An examination of human information reception, information processing, and skilled performance capabilities and limitations in human-machine systems with an emphasis on models and techniques including psychophysics, signal detection theory, information theory, and decision-making theory.

**Prerequisite:** AERN 65250; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**AERN 65299 THESIS II 2 Credit Hours**

Thesis students must continue registration each semester until all degree requirements are met.

**Prerequisite:** AERN 65199; and graduate standing.

**Schedule Type:** Masters Thesis

**Contact Hours:** 2 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**AERN 65300 AIRLINE TRANSPORTATION OPERATIONS 2 Credit Hours**

This course provides a managerial approach that highlights the importance of airline transportation. Students examine the framework for airline transportation from a micro and macro perspective. The focus is on operations management that is specialized or unique to the airline industry including regulation and public policy, as they overview operations, service and cost structure.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**AERN 65301 AIR CARGO SECURITY 2 Credit Hours**

This course examines Post 9-11 legislation put in place with respect to air cargo security and details unique challenges facing the industry today with an eye toward management of those challenges for future growth.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**AERN 65400 WEATHER FOR AVIATION LOGISTICS PLANNING 2 Credit Hours**

Introduction to weather concepts as related to aviation operations management. This course focuses on the effect of various phenomena on airport, airline, and small aircraft feeder operations. The emphasis is on understanding conditions that produce various phenomena, use of available weather products to determine conditions and hazardous conditions and their likely impact on aviation operations. An understanding of regulations relative to weather operations and aircraft capabilities will be gained. Regional weather is discussed.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**AERN 65496 INDIVIDUAL INVESTIGATION IN AERONAUTICS 1-4 Credit Hours**

(Repeatable for a maximum of 9 credit hours) Individual investigation of various aeronautics-related topics.

**Prerequisite:** Graduate standing and special approval.

**Schedule Type:** Individual Investigation

**Contact Hours:** 1-4 other

**Grade Mode:** Standard Letter-IP

**AERN 65499 CAPSTONE IN AERONAUTICS 2 Credit Hours**

The Capstone is a culminating experience that will require completion of a comprehensive project at a workplace through employment or internship, or, a comprehensive research paper from an investigation. The goal is to demonstrate competence in aviation management and logistics. Possibilities include empirical research, case studies, theoretical or applied projects or projects for identified clients. The student will be evaluated on the use of knowledge and skills gained from other courses taken in the degree program.

**Prerequisite:** ENGR 60001, ENGR 60003, ENGR 60078, AERN 65091, AERN 65100, AERN 65200, AERN 65150, MIS 64005, MIS 64041 and MIS 64042.

**Schedule Type:** Project or Capstone

**Contact Hours:** 2 other

**Grade Mode:** Standard Letter

## Aerospace Studies (ASTU)

**ASTU 10101 HERITAGE AND VALUES 1 Credit Hour**

This is a survey course that provides an introduction to the United States Air Force, hopefully encouraging students to pursue an AF career or at least seek additional information to be better informed about the role of the USAF. The course allows students to examine general aspects of the Department of the Air Force, AF Leadership, Air Force benefits, and opportunities for AF officers. The course also lays the foundation for becoming an Airman by outlining our heritage and values. As a foundation course, it also provides a historical perspective such as lessons on war and US military, AF operations, principles of war, and airpower. As a whole, this course provides students with a knowledge-level understanding for the employment of air and space power, from an institutional, doctrinal, and historical perspective. The students will be introduced to the Air Force way of life and gain knowledge on what it means to be an Airman.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 1 lecture

**Grade Mode:** Standard Letter

**ASTU 10102 HERITAGE AND VALUES 1 Credit Hour**

This is a survey course that provides an introduction to the Air Force, hopefully encouraging students to pursue an AF career or at least seek additional information to be better informed about the role of the USAF. The course allows students to examine general aspects of the Department of the Air Force, AF Leadership, Air Force benefits, and opportunities for AF officers. The course also lays the foundation for becoming an Airman by outlining our heritage and values. As a foundational course, it also provides a historical perspective such as lessons on war and US military, AF operations, principles of war, and airpower. As a whole, this course provides students with a knowledge-level understanding for the employment of air and space power, from an institutional, doctrinal, and historical perspective. The students will be introduced to the Air Force way of life and gain knowledge on what it means to be an Airman.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 1 lecture

**Grade Mode:** Standard Letter

**ASTU 10103 LEADERSHIP LABORATORY 1 Credit Hour**

An instructional program that prepares an individual to undertake the broad range of technical tasks associated with military leadership and defense management. This course is optional for university academic credit; however, it is mandatory for Air Force ROTC credit for scholarship or commissioning purposes.

**Prerequisite:** None.

**Schedule Type:** Laboratory

**Contact Hours:** 1 lab

**Grade Mode:** Satisfactory/Unsatisfactory

**ASTU 10104 LEADERSHIP LABORATORY 1 Credit Hour**

An instructional program that prepares an individual to undertake the broad range of technical tasks associated with military leadership and defense management. This course is optional for university academic credit; however, it is mandatory for Air Force ROTC credit for scholarship or commissioning purposes.

**Prerequisite:** None.

**Schedule Type:** Laboratory

**Contact Hours:** 1 lab

**Grade Mode:** Satisfactory/Unsatisfactory

**ASTU 20101 TEAM LEADERSHIP FUNDAMENTALS 1 Credit Hour**

This is a 1 credit hour survey course that is designed to provide a fundamental understanding of both leadership and team building. It is imperative that students are taught from the beginning that there are many layers to leadership, including aspects that don't always jump to mind. Such things include listening, understanding themselves, being a good follower and problem solving efficiently. The students will apply these leadership perspectives when completing team building activities and discussing things like conflict management. Students should demonstrate basic verbal and written communication skills.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 1 lecture

**Grade Mode:** Standard Letter

**ASTU 20102 TEAM AND LEADERSHIP FUNDAMENTALS 1 Credit Hour**

This is a 1-credit hour survey course that is designed to provide a fundamental understanding of both leadership and team building. It is imperative that students are taught from the beginning that there are many layers to leadership, including aspects that don't always jump to mind. Such things include listening, understanding themselves, being a good follower and problem solving efficiently. The students will apply these leadership perspectives when completing team building activities and discussing things like conflict management. Students should demonstrate basic verbal and written communication skills.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 1 lecture

**Grade Mode:** Standard Letter

**ASTU 20103 LEADERSHIP LABORATORY 1 Credit Hour**

An instructional program that prepares an individual to undertake the broad range of technical tasks associated with military leadership and defense management. This course is optional for university academic credit; however, it is mandatory for Air Force ROTC credit for scholarship or commissioning purposes.

**Prerequisite:** None.

**Schedule Type:** Laboratory

**Contact Hours:** 1 lab

**Grade Mode:** Satisfactory/Unsatisfactory

**ASTU 20104 LEADERSHIP LABORATORY 1 Credit Hour**

An instructional program that prepares an individual to undertake the broad range of technical tasks associated with military leadership and defense management. This course is optional for university academic credit; however, it is mandatory for Air Force ROTC credit for scholarship or commissioning purposes.

**Prerequisite:** None.

**Schedule Type:** Laboratory

**Contact Hours:** 1 lab

**Grade Mode:** Satisfactory/Unsatisfactory

**ASTU 30101 LEADING PEOPLE/EFFECTIVE COMMUNICATION 3 Credit Hours**

This course is designed to build on the leadership fundamentals taught in ASTU 20202. Students will have the opportunity to utilize their skills as they begin more of a leadership role in the detachment. The goal is for cadets to have a more in-depth understanding of how to effectively lead people, and provide them with the tools to use throughout their detachment leadership roles. Secondly, students will hone their writing and briefing skills. Many of the students will be uncomfortable with public speaking, and this semester is designed to get them used to briefing. The course continues into advanced skills and ethics training that will prepare them for becoming an officer and a supervisor.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ASTU 30102 LEADING PEOPLE/EFFECTIVE COMMUNICATION 3 Credit Hours**

This course is designed to build on the leadership fundamentals taught in ASTU 20202. Students will have the opportunity to utilize their skills as they begin more of a leadership role in the detachment. The goal is for cadets to have a more in-depth understanding of how to effectively lead people, and provide them with the tools to use throughout their detachment leadership roles. Secondly, students will hone their writing and briefing skills. Many of the students will be uncomfortable with public speaking, and this semester is designed to get them used to briefing. The course continues into advanced skills and ethics training that will prepare them for becoming an officer and a supervisor.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ASTU 30103 LEADERSHIP LABORATORY 1 Credit Hour**

An instructional program that prepares an individual to undertake the broad range of technical tasks associated with military leadership and defense management. This course is optional for university academic credit; however, it is mandatory for Air Force ROTC credit for scholarship or commissioning purposes.

**Prerequisite:** None.

**Schedule Type:** Laboratory

**Contact Hours:** 1 lab

**Grade Mode:** Satisfactory/Unsatisfactory

**ASTU 30104 LEADERSHIP LABORATORY 1 Credit Hour**

An instructional program that prepares an individual to undertake the broad range of technical tasks associated with military leadership and defense management. This course is optional for university academic credit; however, it is mandatory for Air Force ROTC credit for scholarship or commissioning purposes.

**Prerequisite:** None.

**Schedule Type:** Laboratory

**Contact Hours:** 1 lab

**Grade Mode:** Satisfactory/Unsatisfactory

**ASTU 40101 LEADING NATIONAL SECURITY/LEADERSHIP RESPONSIBILITIES 3 Credit Hours**

This student should comprehend the basic elements of national security policy and process. The student should comprehend the air and space power operations as well as understand selected roles of the military in society and current domestic and international issues affecting the military profession. Students should comprehend the responsibility, authority, and functions of an Air Force commander and selected provisions of the military justice system. The final semester of the ASTU 40101 course is designed to prepare cadets for life as a second lieutenant.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ASTU 40102 LEADING NATIONAL SECURITY/LEADERSHIP RESPONSIBILITIES 3 Credit Hours**

This student should comprehend the basic elements of national security policy and process. The student should comprehend the air and space power operations as well as understand selected roles of the military in society and current domestic and international issues affecting the military profession. Students should comprehend the responsibility, authority, and functions of an Air Force commander and selected provisions of the military justice system. The final semester of the ASTU 40102 course is designed to prepare cadets for life as a second lieutenant.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ASTU 40103 LEADERSHIP LABORATORY 1 Credit Hour**

An instructional program that prepares an individual to undertake the broad range of technical tasks associated with military leadership and defense management. This course is optional for university academic credit; however, it is mandatory for Air Force ROTC credit for scholarship or commissioning purposes.

**Prerequisite:** None.

**Schedule Type:** Laboratory

**Contact Hours:** 1 lab

**Grade Mode:** Satisfactory/Unsatisfactory

**ASTU 40104 LEADERSHIP LABORATORY 1 Credit Hour**

An instructional program that prepares an individual to undertake the broad range of technical tasks associated with military leadership and defense management. This course is optional for university academic credit; however, it is mandatory for Air Force ROTC credit for scholarship or commissioning purposes.

**Prerequisite:** None.

**Schedule Type:** Laboratory

**Contact Hours:** 1 lab

**Grade Mode:** Satisfactory/Unsatisfactory

## Agribusiness (AGRI)

### AGRI 20000 ECONOMIC PERSPECTIVES ON FOOD AND AGRICULTURE 3 Credit Hours

Introduction of the role of economics in agriculture at the firm, national, and international level. An overview of the structure and scope of the U.S. Food and Fiber Sector and its current trends and implications for the national economy. Students learn to apply various economic principles and concepts relating to production agriculture, business management, consumer behavior, market price analysis and equilibrium, international trade and public policy formation.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

### AGRI 30000 FARM BUSINESS MANAGEMENT 3 Credit Hours

Develops an understanding of the various business management decisions involved in the organization and operation of a farm business operation for continuous profit and production cost efficiency. Students acquire knowledge and proficiency in applying the various economic principles and farm business management analysis concepts which aid a farm operator or owner in the decision making process for a farm business operation.

**Prerequisite:** ACTT 11000 and BMRT 11009.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

### AGRI 31000 AGRIBUSINESS MANAGEMENT 3 Credit Hours

Intended for students interested in careers eventually leading to managerial positions in commodity production and marketing, input supply, banking, cooperatives and related agricultural industries. Focus is on the use of financial statements, operating and managerial functions, communication, and the inter-personal work environment within an organization. Presentation is by lecture integrated with experiential learning through use of student-team decision making applied to an agribusiness management simulation.

**Prerequisite:** ACTT 11000 and ACTT 11001 and BMRT 11009.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

### AGRI 32000 FARM RECORDS ANALYSIS AND INCOME TAX MANAGEMENT 3 Credit Hours

Develop an understanding of the procedures involved with farm recordkeeping and illustrates the ways in which farm records can be used to evaluate and to improve the economic performance and profitability of a farm business. Students have the opportunity to gain an understanding of the current tax system. Students learn to apply the various tax management methods and strategies that can be used to maximize the after tax income to a farm business operation.

**Prerequisite:** AGRI 30000.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

### AGRI 33000 AGRICULTURAL COMMODITY MARKETING 3 Credit Hours

Covers the economic factors, socioeconomic trends, farm demographic changes, global competitiveness, and consumer attitudes that shape the current structure and operation of the U.S. agricultural marketing system. Includes how decisions at one level in the value chain impact all other levels and explores how and when the system changes as a result of individual decisions. Also focuses on quality-based marketing, contracting and provides a global perspective.

**Prerequisite:** AGRI 20000 and BMRT 11009.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

### AGRI 34000 LIVESTOCK PRODUCTION MANAGEMENT 3 Credit Hours

An introduction to the livestock industry and its role in society and our economy. Principles of livestock production management are introduced for beef, swine, dairy cattle, horses, sheep, goats and poultry.

**Prerequisite:** AGRI 31000.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

### AGRI 35000 CROP AND FORAGE PRODUCTION MANAGEMENT 3 Credit Hours

Deals with crop plants in relation to the environment, crop improvement, seeds, and seeding. The practice of tillage, fertilizer, rotation, cropping, and weed control is covered. Pastureland and farmland, the harvest of field crops, and the handling and marking of grain seeds and hay are also included, as well as crops of the grass family, perennial forage grasses, the legume family and miscellaneous crops.

**Prerequisite:** AGRI 30000.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

### AGRI 40000 ADVANCED FARM BUSINESS MANAGEMENT 3 Credit Hours

Application of economics and business principles to the management of a Farm Business. Use of analytical tools such as enterprise budgeting, linear programming, pro-forma cash flow budgeting, capital budgeting, and risk management analysis to aid the decision-making process.

Understanding of farm transfer and succession planning and its importance in the intergenerational viability of a farm business.

**Prerequisite:** AGRI 30000.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

### AGRI 40092 AGRIBUSINESS INTERNSHIP (ELR) 3 Credit Hours

Provides students an internship work experience in the agribusiness industry. The internship may be completed in any one of the following areas of agribusiness: sales management, agriculture lending, insurance, cooperative management, commodity merchandising, farm business management, public relations, farm marketing, agricultural policy, dairy production or farm business operations.

**Prerequisite:** Agribusiness major; junior or senior standing; and special approval.

**Schedule Type:** Practical Experience

**Contact Hours:** 9 other

**Grade Mode:** Standard Letter

**Attributes:** Experiential Learning Requirement



**AGRI 41000 AGRICULTURAL PRICE ANALYSIS 3 Credit Hours**

The economics of supply and demand provide a foundation for understanding the behavior of agricultural markets, the formation of prices, and the role of prices in the allocation of goods and services. Traditional topics include: aggregate demand & supply determination, price equilibrium, elasticities in the commodity market, equilibrium displacement models, derived demand of food products, quantitative analysis of food marketing channels, regression analysis and spatial concepts in agriculture.

**Prerequisite:** AGRI 20000, ECON 22061.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**AGRI 42000 AGRICULTURAL FINANCE 3 Credit Hours**

To develop an understanding and proficiency in applying the various economic principles and concepts of financial management for analyzing alternative investment decisions and solving financial problems in a farm business operation. Various strategies for acquiring and financing capital resources in the farm business operation are explored. Characteristics of the financial institutions providing credit to farmers and their particular lending programs are studied.

**Prerequisite:** AGRI 30000 and MATH 11010.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**AGRI 43000 AGRICULTURAL ENVIRONMENTAL LAW 3 Credit Hours**

To acquaint students with the fundamentals of state and federal pollution control law. Major topics include: air pollution control, water pollution control, toxic substance control, solid waste management and disposal, Superfund, wetlands, endangered species, land use regulation, environmental assessment, environmental law administration and enforcement and global environmental law.

**Prerequisite:** AGRI 30000 and BMRT 21000.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**AGRI 44000 AGRICULTURAL AND INTERNATIONAL TRADE POLICY 3 Credit Hours**

History, development, programs, and analysis of public policy issues in agriculture and natural resources. Analysis of science, economic, and political factors involved in policy development. Emphasis on farm policy and farm structure; food and nutrition; trade and development; and natural resources, the environment, and bioenergy, with special attention to issues and policies impacting Ohio and the United States.

**Prerequisite:** AGRI 20000 and ECON 22061.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**AGRI 45000 SENIOR SEMINAR (WIC) 3 Credit Hours**

Capstone course designed to expose Agribusiness majors to current events and the interpretation of those events in an economics framework for use in management decision making. Students are introduced to the scientific method and complete a senior research project.

**Prerequisite:** Agribusiness (AGRI) major; and senior standing.

**Schedule Type:** Seminar

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**Attributes:** Writing Intensive Course

## Allied Health Sciences (AHS)

**AHS 11001 PERSONAL TRAINING, WELLNESS AND EXERCISE 3 Credit Hours**

Theoretical and practical competencies required of a qualified personal trainer, including exercise, nutrition and wellness concepts that are immediately applicable to improve personal lifestyle decisions. Receive hands on experience in training, instruction and professional skill development. Upon completion students are qualified to sit for the personal trainer certification exam administered by the National Council on Strength and Fitness (NCSF).

**Prerequisite:** None.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 2 lecture, 2 lab

**Grade Mode:** Standard Letter

**AHS 12000 BASIC PRINCIPLES OF PHARMACOLOGY 2 Credit Hours**

Identify and apply the basic principles of pharmacology to client care. Explore pharmaceuticals, pharmacokinetics, pharmacodynamics, pharmacology-related math, drug classification, and safe preparation and administration of medications.

**Prerequisite:** Nursing Technology, Nursing, Physical Therapist Assistant Technology, Occupational Therapist Assistant Technology, Radiologic Technology or Respiratory Therapy Technology major.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**AHS 12005 CONCEPTS IN LIFESPAN DEVELOPMENT 3 Credit Hours**

Developmental theories and assessment measures throughout the lifespan, with application to the rehabilitation client.

**Prerequisite:** PSYC 11762.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**AHS 12010 PROFESSIONALISM IN HEALTHCARE 1 Credit Hour**

Provides information concerning the professional behaviors and communication skills necessary for all healthcare providers to effectively interact with clients, related healthcare professionals and others. Students will gain an understanding of the importance of being professional, ethical and competent in their fields.

**Prerequisite:** None.

**Schedule Type:** Seminar

**Contact Hours:** 1 other

**Grade Mode:** Standard Letter

**AHS 14016 PATIENT CARE MANAGEMNT 2 Credit Hours**

Ethical and legal aspects, interpersonal communication, history taking, physical assistance and monitoring, medical emergencies, infection control, aseptic and non-septic techniques, patient tubes and lines, safe patient movement and handling techniques, immobilization techniques, vital signs, and pharmacology are topics covered. Some activities are done in the lab setting.

**Prerequisite:** Special approval.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 1 lecture, 2 lab

**Grade Mode:** Standard Letter



**AHS 22002 CLINICAL KINESIOLOGY 3 Credit Hours**

Function of the human body with emphasis on the musculoskeletal system and gross body measurements.

**Prerequisite:** BSCI 11010; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**AHS 22003 CLINICAL KINESIOLOGY LABORATORY 1 Credit Hour**

Application of human body movement and function concepts.

**Prerequisite:** BSCI 11010; and special approval.

**Schedule Type:** Laboratory

**Contact Hours:** 3 lab

**Grade Mode:** Standard Letter

**AHS 24010 MEDICAL TERMINOLOGY 1 Credit Hour**

Terminology utilized by the medical profession. Emphasis is on definition, spelling, pronunciation and correct usage of terms.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 1 lecture

**Grade Mode:** Standard Letter

**AHS 24014 ADVANCED IMAGING 2 Credit Hours**

The procedures and equipment used in advanced imaging modalities including radiography and fluoroscopy, interventional radiology, computed tomography, magnetic resonance imaging, diagnostic medical sonography, nuclear medicine, PET scanning, mammography and radiation therapy. Also includes overview of billing and coding of these types of procedures.

**Prerequisite:** Special approval.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**AHS 24028 RADIOLOGIC PATHOLOGY 3 Credit Hours**

Disease processes and the pathologies associated with each anatomical system in the human body are described and their application to all imaging modalities in the radiologic and imaging sciences.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

## American Sign Language (ASL)

**ASL 19201 ELEMENTARY AMERICAN SIGN LANGUAGE I 4 Credit Hours**

Introduction to American Sign Language and the culture of the American signing community, in an immersion setting.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 4 lecture

**Grade Mode:** Standard Letter

**Attributes:** TAG Foreign Language

**ASL 19202 ELEMENTARY AMERICAN SIGN LANGUAGE II 4 Credit Hours**

A continuation of the introduction to American Sign Language and the culture of the American signing community, in an immersion setting.

**Prerequisite:** ASL 19201.

**Schedule Type:** Lecture

**Contact Hours:** 4 lecture

**Grade Mode:** Standard Letter

**ASL 19401 EXPLORATION OF DEAF CULTURE 3 Credit Hours**

Introduction to the American Deaf Community and its culture. Topics include myths and facts about deafness, cultural norms, basic history of American Sign Language, issues of language and cultural oppression, history of education of deaf and hard-of-hearing individuals, legal rights and advocacy.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ASL 29201 INTERMEDIATE AMERICAN SIGN LANGUAGE I 3 Credit Hours**

Continued development of receptive and expressive skills in American Sign Language and an introduction to ASL grammar, using a bilingual-bicultural approach and interaction with deaf organizations.

**Prerequisite:** ASL 19202.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ASL 29202 INTERMEDIATE AMERICAN SIGN LANGUAGE II 3 Credit Hours**

Continuation of ASL 29201 with an emphasis on greater exploration of American Sign Language sentence structure using a bilingual-bicultural approach. Students are involved in a community service project, providing a hands-on experience with using ASL within a community setting.

**Prerequisite:** ASL 29201.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ASL 29212 APPLIED AMERICAN SIGN LANGUAGE GRAMMAR 3 Credit Hours**

Provides students with intensive instruction and practice in grammar to help intermediate students express complex ideas using American Sign Language.

**Prerequisite:** ASL 19202.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ASL 29213 FINGERSPELLING, NUMBERS AND DEPICTION 3 Credit Hours**

Provides intermediate students with intensive instruction and practice in technical aspects of American Sign Language, including fingerspelling, numbers, and depiction, and provides opportunities for students to incorporate these skills in spontaneous conversations.

**Prerequisite:** ASL 19202.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ASL 39095 SPECIAL TOPICS IN AMERICAN SIGN LANGUAGE 1-3 Credit Hours**

(Repeatable for credit for maximum 9 hours) Special topics course in American Sign Language, the topic of which varies. Precise titles and descriptions appear in the schedule of classes.

**Prerequisite:** Special approval.

**Schedule Type:** Lecture

**Contact Hours:** 1-3 lecture

**Grade Mode:** Standard Letter

**ASL 39201 ADVANCED AMERICAN SIGN LANGUAGE I 3 Credit Hours**

Students enhance receptive and expressive proficiency in an immersion setting through the use of both planned and impromptu in-class discussion of current and historic events and involvement in a community service project. Students are advised to begin planning this activity early in the semester. Successful completion of ASL 29201 portfolio review required prior to registration.

**Prerequisite:** ASL 29202 .

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ASL 39202 ADVANCED AMERICAN SIGN LANGUAGE II 3 Credit Hours**

Students continue to increase their receptive and expressive proficiency in American Sign Language in an immersion setting, through in-class formal and informal presentations, discussions of current and historical events, and working in groups to complete a semester project and a community service project.

**Prerequisite:** ASL 39201.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ASL 39223 SOCIOLINGUISTICS OF THE DEAF COMMUNITY (WIC) 3 Credit Hours**

Provides an introduction to the sociolinguistics of American Sign Language (ASL) and the Deaf Community: A study of ASL within a social context. Topics include: multilingualism, variation (related to region, ethnicity, class and age), bilingualism and language contact, language policy and planning and language attitudes. This course is taught in English. Knowledge of ASL is helpful but not necessary.

**Prerequisite:** Junior standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Writing Intensive Course

**ASL 49091 SEMINAR IN AMERICAN SIGN LANGUAGE LINGUISTICS 3 Credit Hours**

(Repeatable twice for credit) Provides an in-depth treatment of an American Sign Language linguistics-related topic.

**Prerequisite:** Minimum C grade in ASL 49108; and special approval.

**Schedule Type:** Seminar

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ASL 49092 PRACTICUM IN AMERICAN SIGN LANGUAGE (ELR) 1-3 Credit Hours**

In consultation with the ASL program coordinator, ASL students design a practicum experience related to signed languages and their communities. Successful presentation of cumulative portfolio required prior to registration.

**Prerequisite:** ASL 29202.

**Schedule Type:** Practical Experience

**Contact Hours:** 3 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**Attributes:** Experiential Learning Requirement

**ASL 49096 INDIVIDUAL INVESTIGATION 2,3 Credit Hours**

(Repeatable for credit) (Cross-listed with SPED 43996) Individual investigation of problems in American Sign Language, ASL pedagogy and or deaf culture.

**Prerequisite:** Departmental permission.

**Schedule Type:** Individual Investigation

**Contact Hours:** 2-3 other

**Grade Mode:** Standard Letter-IP

**ASL 49108 AMERICAN SIGN LANGUAGE LINGUISTICS I 3 Credit Hours**

(Cross-listed with SPED 43108/53108) Lecture, discussion and application course designed to introduce students to basic linguistic terminology and concepts, as applied to American Sign Language (ASL) and taught using a bilingual-bicultural approach. Both ASL and English are used in the instruction of this class. Successful presentation of cumulative portfolio is required prior to registration in this course.

**Prerequisite:** ASL 29202.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ASL 49109 AMERICAN SIGN LANGUAGE LINGUISTICS II 3 Credit Hours**

Through lecture, in-class and out-of-class activities, and in-class presentations, students discuss, use, and respond to varied sentence structures and types of discourse in ASL, and compare these to English. Class is predominantly taught in ASL, but may at times use a bilingual approach.

**Prerequisite:** ASL 49108; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ASL 49201 ADVANCED PROFICIENCY 3 Credit Hours**

Students improve knowledge and use of American Sign Language and experiential knowledge of ASL culture through development, production, critique, revision and evaluation of an extended ASL presentation. This is an immersion class; voicing will not be used.

**Prerequisite:** ASL 39202; and score of intermediate level on the Signing Competency Proficiency Interview.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ASL 49309 INTRODUCTION TO DEAF STUDIES (ELR) (WIC) 3 Credit Hours**

Survey course designed to provide informational base and understanding of the unique experiences of Deaf people as a cultural minority. Course includes a discussion of: the history of deaf education, etiology and prevalence data, service delivery systems, the process of diagnosis and discovery of hearing loss, issues associated with assessment, and the various communication systems used by deaf individuals. Specifically, topics discussed will include historical, medical, and cultural perspectives regarding the interactions between Deaf and hearing cultural groups and the resulting impact on social, academic-educational, and vocational experiences of deaf children, adults, and their families.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Experiential Learning Requirement, Writing Intensive Course

**ASL 49350 AMERICAN SIGN LANGUAGE LITERATURE 3 Credit Hours**

Through the use of multimedia resources, student explore the evolution of deaf literature, its historical context and multiple perspectives, and the techniques specific to ASL which make it unique. Conducted primarily in ASL, with some voicing and printed English.

**Prerequisite:** ASL 39201 and 49309; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ASL 49401 DEAF CULTURE AND COMMUNITY 3 Credit Hours**

(Slashed with SPED 53101) Students explore the different voices and perspectives which have been, and are, present within the deaf community, issues of controversy, myths and data, using a mix of ASL and English materials and discussion. Successful presentation of cumulative portfolio required prior to registration.

**Prerequisite:** ASL 29202 and 49309; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ASL 49601 ACTIVITY DESIGN, IMPLEMENTATION AND EVALUATION 3 Credit Hours**

Student improve receptive and expressive skills and develop ability to analyze and break down specific ASL skills into more basic components; voicing is not used. In addition to classroom time, a minimum of 90 minutes per week working in the KSU ASL lab and/or (with permission) off-campus site.

**Prerequisite:** ASL 39202; and passage of the Signing Competency Proficiency Interview at an intermediate level.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

## Animation Game Design (AGD)

**AGD 11003 SOLID MODELING 3 Credit Hours**

Instruction given in the best usage approaches for parametric design philosophy through a hands-on, practice-intensive curriculum. Students acquire the knowledge needed to complete the process of designing models from conceptual sketching, through to solid modeling, assembly design and drawing production with rendering techniques for presentation.

**Prerequisite:** Animation Game Design major or Game Design minor or Modeling and Animation minor.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**AGD 12000 TWO DIMENSION GRAPHICS 3 Credit Hours**

Introductory course for creation of two-dimension graphics using vector and raster imaging for use in mapping and character development in animation and gaming.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**AGD 12001 MODELING AND TEXTURING I 3 Credit Hours**

Introduction to the basic concepts of three-dimension modeling and animation. Topics include terminology, techniques of creating textures and imaging for mapping, three-dimension modeling, lighting, shading and rendering.

**Prerequisite:** AGD 12000 with a minimum grade of C; and Modeling, Animation and Game Creation major or Game Design minor or Modeling and Animation minor.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**AGD 21000 FUNDAMENTALS OF MIXED REALITY 3 Credit Hours**

Course explores the fundamentals of virtual and augmented reality available today (education, medical, games, architecture, etc.).

**Prerequisite:** Animation Game Design major or Game Design minor or Modeling and Animation minor; and sophomore standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**AGD 21092 ANIMATION AND GAME DESIGN PRACTICUM (ELR) 1-3 Credit Hours**

(Repeatable for credit) Supervised work experience. One credit hour for 50 work hours.

**Prerequisite:** None.

**Schedule Type:** Practical Experience

**Contact Hours:** 3.333-10 other

**Grade Mode:** Satisfactory/Unsatisfactory

**Attributes:** Experiential Learning Requirement

**AGD 22000 TWO-DIMENSION COMMUNICATION 3 Credit Hours**

Comprehensive training with 2D and 3D elements of computer-aided-design (CAD) from the foundation to advanced techniques applicable to design in the graphics, mechanical, industrial and electronics fields.

**Prerequisite:** Animation Game Design major or Game Creation minor or Modeling and Animation minor.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**AGD 22001 MODELING FOR ARCHITECTURE 3 Credit Hours**

Introduction to building information modeling (BIM) fundamentals using an industry-standard architectural software application, including creation of full 3D architectural project into working drawings.

**Prerequisite:** Animation Game Design major or Game Design minor or Modeling and Animation minor.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**AGD 22004 MODELING AND TEXTURING II 3 Credit Hours**

3D modeling and computerized techniques. Introduction to the basic concepts, terminology and techniques of 3D modeling, lighting, shading, imaging and animation.

**Prerequisite:** AGD 12001 with a minimum grade of C.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**AGD 22005 MULTIMEDIA AND GAME DESIGN 3 Credit Hours**

2D and 3D game development which includes the creation of flowcharts, roughs and interactive navigation systems. Integration of images, animation, video, sound and custom code for the app or game for mobile device.

**Prerequisite:** AGD 12001.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**AGD 22010 DIGITAL SCULPTING 3 Credit Hours**

This course will explore interactive 3D sculpting to create highly-detailed and realistic models for use in games, film, animation and illustration.

**Prerequisite:** AGD 12001; and Animation Game Design major or Game Design minor or Modeling and Animation minor.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**AGD 22095 SPECIAL TOPICS IN ANIMATION AND GAME DESIGN 1-3 Credit Hours**

(Repeatable for credit) Special topics in animation and game design. Repeated registration permitted.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 1-3 lecture

**Grade Mode:** Standard Letter

**AGD 23020 GAMING AND CULTURE 3 Credit Hours**

Familiarize students with the basic issues of culture and social aspects in different contexts including the relationship between culture and gaming. What is play, what is experiencing, and what are the cultural determinants that are at work in the process.

**Prerequisite:** Sophomore standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**AGD 33010 COMPETITIVE GAMING 3 Credit Hours**

Introduction to eSports cultures and exploration of streaming techniques and layouts. The business culture of eSports, developing teams, communities, competitive gaming, event marketing and organizing an eSports event.

**Prerequisite:** Junior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**AGD 33030 GAMES FOR EDUCATION 3 Credit Hours**

This course explores using games for education and industry training.

**Prerequisite:** AGD 12000; and Computer Design, Animation and Game Design concentration in the Engineering Technology major or Game Design minor or Modeling and Animation minor; and junior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**AGD 33095 SPECIAL TOPICS ANIMATION AND GAME DESIGN 1-3 Credit Hours**

To be determined based on special course topic presented.

Prerequisites: Animation and Game Design major

**Prerequisite:** Animation and Game Design major.

**Schedule Type:** Lecture

**Contact Hours:** 1-3 lecture

**Grade Mode:** Standard Letter

**AGD 34000 CHARACTER ANIMATION 3 Credit Hours**

Continuation of the study and technology applications of computer animation with emphasis on camera usage and the production of a comprehensive animation project involving the animation thought process (ATP).

**Prerequisite:** AGD 22004.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**AGD 34001 ANIMATION PROJECT 3 Credit Hours**

Continued study of practical technology applications of computer animation with emphasis on scripting code writing, systems line variables and fluent realism factors within the ATP.

**Prerequisite:** AGD 34000.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**AGD 34003 ANIMATION THEORY 3 Credit Hours**

A comprehensive course covering the fundamentals of storytelling with animation and motion graphics. Coverage of concept development, pre-production, storyboarding, color and design.

**Prerequisite:** AGD 22004.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**AGD 34005 ENVIRONMENTAL GAME DESIGN 3 Credit Hours**

In this course, we will learn the essentials of game environment creation. We will look at how textures, terrains, foliage, particle effects, lighting and blueprinting work and are created in a computer-aided software. We will also learn to import 3D models in to our game environment.

**Prerequisite:** AGD 22004; and junior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**AGD 43000 INTERACTIVE GAME DESIGN 3 Credit Hours**

This course is the continuation of AGD 34005 and a group project based course. We will be covering how to add characters and blueprint scripting aspects in Unreal Engine. Our purpose is to create a playable 3D game in Unreal Engine

**Prerequisite:** AGD 34005.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture, 2 lab

**Grade Mode:** Standard Letter

**AGD 43001 ANIMATION PRODUCTION AND VISUAL EFFECTS 3 Credit Hours**

A course dealing with the technical and business aspects of pre-and post production planning for multimedia video or film projects. Covers a systematic approach to content organization and development, scripting, visualization. We will explore effects such as particles and volumes (fire, smoke, liquids) inside 3D scenes as well as compositing effects.

**Prerequisite:** AGD 22004.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**AGD 43002 GRAPHICS DESIGN TECHNOLOGY 3 Credit Hours**

A course of study in the technology of creating knowledge and effects using computer-graphics concepts to create photo-realistic composite images and to restore and enhance a wide array of images.

**Prerequisite:** AGD 22004.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**AGD 43025 REAL-TIME RENDERING FOR ANIMATION 3 Credit Hours**

This course focuses on using a game engine, also known as a real-time renderer, to present stories and animation in real-time. This includes meeting performance targets, interactivity, and animation. Prerequisites: AGD 34001 and AGD 34005

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**AGD 43092 INTERNSHIP IN ANIMATION AND GAME DESIGN (ELR)****1-3 Credit Hours**

(Repeatable for credit) A credit-bearing work experience with educational outcomes, utilizing and enhancing a student's academic learning in practical occupational situations. The student is expected to complete pre-determined assignments, which may include a weekly journal, final paper, or an experience report.

**Prerequisite:** Animation Game Design major and junior standing; and special approval.

**Schedule Type:** Practical Experience

**Contact Hours:** 1-3 other

**Grade Mode:** Standard Letter

**Attributes:** Experiential Learning Requirement

**AGD 43096 INDIVIDUAL INVESTIGATION IN ANIMATION AND GAME DESIGN 1-3 Credit Hours**

(Repeatable for credit) Research or individual investigation in areas not covered in the existing curriculum for baccalaureate level students at or above the junior level.

**Prerequisite:** Special approval.

**Schedule Type:** Individual Investigation

**Contact Hours:** 1-3 other

**Grade Mode:** Standard Letter

**AGD 49999 SENIOR CAPSTONE PROJECT (ELR) 3 Credit Hours**

This is a senior project class allowing students to work in an area of interest.

**Prerequisite:** AGD 43000 and AGD 43025; and senior standing.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 1 lecture, 2 lab

**Grade Mode:** Standard Letter

**Attributes:** Experiential Learning Requirement

## Anthropology (ANTH)

**ANTH 18095 SPECIAL TOPICS ANTHROPOLOGY 3 Credit Hours**

(Repeatable for credit) Special Topics in Anthropology offered irregularly when unusual resources or opportunities exist. Topic announced when scheduled.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ANTH 18210 GLOBAL CULTURAL DIVERSITY: ANTHROPOLOGICAL PERSPECTIVES (DIVG) (KSS) 3 Credit Hours**

This introductory course in cultural anthropology examines the culture concept, the diverse ways of life found in communities around the world, and attempts by anthropologists and other social scientists to understand the commonalities underlying our diversity. It explores how individual lives are shaped by broader cultural and social forces, how people create meaning, and the nature of power relations. Students will gain insight into the potential of anthropological findings to help resolve contemporary human problems.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Diversity Global, Kent Core Social Sciences, TAG Social and Behavioral Sciences, Transfer Module Social Sciences

**ANTH 18230 INTRODUCTION TO FORENSIC ANTHROPOLOGY 3 Credit Hours**

Forensic anthropology is the application of biological anthropology in a medico-legal context. The tools of archaeology and biological anthropology are used to discover, recover and identify human remains. Topics include human osteology, determining the biological profile (sex, age, ancestry and stature), facial reconstruction, establishing a positive I.D., trauma to bone, stages of decomposition, the role of insects in decomposition, and issues of mass graves.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ANTH 18420 ARCHAEOLOGY: ANCIENT LIVES AND CULTURES (DIVG) (KSS) 3 Credit Hours**

Archaeology is the study of the human past using material remains. The themes of time change and human diversity will be emphasized as students learn about ancient societies and how they teach us about ourselves.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Diversity Global, Kent Core Social Sciences, TAG Social and Behavioral Sciences, Transfer Module Social Sciences

**ANTH 18630 HUMAN EVOLUTION (KBS) 3 Credit Hours**

Introduction to basic evolutionary theory with a focus on the emergence and progressive development of the human species during the last five million years. Includes related topics such as primate behavior and human variation.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Kent Core Basic Sciences, TAG Social and Behavioral Sciences, Transfer Module Natural Sciences



**ANTH 18631 ISSUES IN HUMAN EVOLUTION (KBS) (KLAB) 1 Credit Hour**

Laboratory study of primate and human anatomy; human paleontology; Mendelian, molecular and human genetics; and primate behavior, ecology and conservation.

**Pre/corequisite:** ANTH 18630.

**Schedule Type:** Laboratory

**Contact Hours:** 1 lab

**Grade Mode:** Standard Letter

**Attributes:** Kent Core Basic Sciences, Kent Core Basic Sciences Lab, Transfer Module Natural Sciences

**ANTH 28095 SPECIAL TOPICS ANTHROPOLOGY 3 Credit Hours**

(Repeatable for credit) Special Topics in Anthropology offered irregularly when unusual resources or opportunities exist. Topic announced when scheduled.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ANTH 28300 INTRODUCTION TO FORENSIC GENETICS 3 Credit Hours**

Forensic genetics is a field in which the properties of proteins and nucleic acids (genes) are utilized to identify the person that produced them; for example, whose DNA is on a gun trigger? This is the first in a two-course series. This course provides a foundation in basic genetic principles and methods relevant to criminal investigation and victim identification. Topics include introduction and history of molecular forensics, crime scene evidence, serology (blood, semen, saliva), blood spatter, chromosome structure, principles of inheritance, linkage and crossing over, microsatellites (STRs), DNA extraction methods, standard PCR, capillary electrophoresis, mitochondrial DNA, sex chromosomes, basic population genetics, and CODIS database.

**Prerequisite:** ANTH 18230 or ANTH 18630.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ANTH 38095 SPECIAL TOPICS IN ANTHROPOLOGY 3 Credit Hours**

Special topics in anthropology offered irregularly when unusual resources or opportunities exist. Topic announced when scheduled.

**Prerequisite:** Junior standing or above.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ANTH 38096 INDIVIDUAL INVESTIGATION IN ANTHROPOLOGY (ELR) 1-3 Credit Hours**

(Repeatable for credit) Readings and/or research supervised by a member of the anthropology staff.

**Prerequisite:** Permission.

**Schedule Type:** Individual Investigation

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter-IP

**Attributes:** Experiential Learning Requirement

**ANTH 38292 FIELD WORK IN CULTURAL ANTHROPOLOGY (ELR) 3 Credit Hours**

(Repeatable for credit) Practical experience carrying out field research in cultural anthropology under the supervision of members of the anthropology faculty.

**Prerequisite:** ANTH 18210 or SOC 12050.

**Schedule Type:** Field Experience

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Experiential Learning Requirement

**ANTH 38480 ARCHAEOLOGICAL ANALYSIS (ELR) (WIC) 3 Credit Hours**

Methods necessary for the description and laboratory analysis of prehistoric remains. Course will include laboratory exercises as well as class lectures.

**Prerequisite:** ANTH 18420.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Experiential Learning Requirement, Writing Intensive Course

**ANTH 38490 QUANTITATIVE ANTHROPOLOGY 3 Credit Hours**

Introduces the quantitative description of numerical data, provides an understanding of the basis of probability theory and statistical inference and acquaints the student with the role of computers in anthropology.

**Prerequisite:** ANTH 18420 or ANTH 18630.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ANTH 38680 PRIMATE SOCIETIES 3 Credit Hours**

This course will be a survey of the behavior of living primates. Topics covered include reproductive and foraging strategies, social structure and primate conservation. Antecedent human behavior will also be considered.

**Prerequisite:** ANTH 18630.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ANTH 48001 QUALITATIVE RESEARCH METHODS IN ANTHROPOLOGY 3 Credit Hours**

(Slashed with ANTH 58001) This course covers the qualitative research methods employed by anthropologists to collect and analyze data.

Students will gain skills in ethnography, research design and analysis, and the ethical responsibilities associated with data collection and storage.

**Prerequisite:** ANTH 18210.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ANTH 48010 NORTH AMERICA'S ICE AGE HUNTERS 3 Credit Hours**

(Slashed with ANTH 58010) This class is an in-depth study of the Clovis people, their culture, their technology, their ancestors, and their progeny. The Clovis culture represents the first peoples of North America during the Pleistocene (Ice Age), over 13,000 years ago. These first Americans were colonizers to the New World, and tackled a dangerous and unfamiliar landscape.

**Prerequisite:** ANTH 18420.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter



**ANTH 48023 FORENSIC ARCHAEOLOGY FIELD SCHOOL (ELR) 3 Credit Hours**

(Slashed with ANTH 58023) This course provides students with practical experience in archaeological fieldwork in the context of a mock crime scene. Students will excavate a complex burial feature. Surface survey, excavation and recording techniques, field drawing, and processing of bones and artifacts will be taught.

**Prerequisite:** ANTH 18230 or ANTH 18630.

**Schedule Type:** Field Experience, Laboratory, Lecture

**Contact Hours:** 1 lecture, 3 lab, 3 other

**Grade Mode:** Standard Letter

**Attributes:** Experiential Learning Requirement

**ANTH 48093 VARIABLE TITLE WORKSHOP IN ANTHROPOLOGY 1-6 Credit Hours**

(Repeatable for credit) (Cross-listed with ANTH 58093) Classroom discussions and field study activity focused on professional and disciplinary concerns. Specific content varies with workshop group.

**Prerequisite:** Special approval.

**Schedule Type:** Workshop

**Contact Hours:** 1-6 other

**Grade Mode:** Satisfactory/Unsatisfactory

**ANTH 48095 SPECIAL TOPICS IN ANTHROPOLOGY 3 Credit Hours**

(Repeatable for credit) (Cross-listed with ANTH 58095) Offered irregularly when unusual resources and/or opportunities permit. Topic announced when scheduled.

**Prerequisite:** ANTH 18210 or 18420.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ANTH 48150 RELIGION: A SEARCH FOR A MEANING 3 Credit Hours**

(Slashed with ANTH 58150) This course teaches students the anthropological approaches to the study of religious beliefs and practices, as well as the role of religion in bringing about social change. Topics covered include: ritual, myth, witchcraft, sorcery, shamanism, syncretism, secularism and fundamentalism. Students will appreciate the diversity of ways in which religion is manifested cross-culturally and understand the different roles that religious beliefs play in human life. Students with Junior standing or above may request that the prerequisite be waived.

**Prerequisite:** ANTH 18210.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ANTH 48212 KINSHIP AND SOCIAL ORGANIZATION (DIVG) 3 Credit Hours**

(Cross-listed with ANTH 58212) This course employs cross-cultural approaches to the understanding of marriage, family organization, descent and kinship systems.

**Prerequisite:** ANTH 18210.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Diversity Global

**ANTH 48214 POLITICS OF CULTURE (ELR) (WIC) 3 Credit Hours**

(Slashed with ANTH 58214) Addresses the way in which culture has been politicized, and looks at such issues as cultural relativism and objectivity in anthropological studies with reference to specific peoples and geographic areas.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Experiential Learning Requirement, Writing Intensive Course

**ANTH 48220 CULTURAL ECOLOGY AND SUSTAINABILITY 3 Credit Hours**

(Slashed with ANTH 58220) Exploration of the dynamic relationship between socio-cultural systems and physical-biological environment through Anthropology's comparative perspective on the crucial contemporary need to foster a sustainable society.

**Prerequisite:** ANTH 18210.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ANTH 48225 ARCHAEOLOGY OF DEATH (ELR) (WIC) 3 Credit Hours**

Cross-listed with ANTH 58225) Archaeologists study cemeteries to learn how societies treat their dead, as well as work at mass disaster scenes, and clandestine graves. They aid law enforcement in many situations where human remains have been skeletonized. This course will provide students with an understanding of the processes and procedures involved in each.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Experiential Learning Requirement, Writing Intensive Course

**ANTH 48230 SOCIO-CULTURAL CHANGE 3 Credit Hours**

(Cross-listed with ANTH 58230) Analysis of institutional change where peoples of different cultures are in sustained contact.

**Prerequisite:** ANTH 18210.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ANTH 48242 ARCHAEOLOGICAL CERAMICS 3 Credit Hours**

(Slashed with ANTH 58242) This course will provide students with essential archaeological knowledge of ceramic materials via lecture and hands-on learning activities. Pottery will be addressed in a holistic manner, starting with its geochemical origins, through the various ways humans have sourced and manipulated this versatile raw material, as well as standard archaeological methods for study and interpretation. Ceramic materials from cultures all around the world will be discussed in depth to reveal both functional and social significance.

**Prerequisite:** ANTH 18420.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ANTH 48245 PSYCHOLOGICAL ANTHROPOLOGY (DIVG) 3 Credit Hours**

(Slashed with ANTH 58245) Overview of psychological anthropology. Includes comparative cross-cultural socialization and personality development; group and national character; relationship of personality to politics, social and occupational roles, and recent explorations of the relationship between culture and cognition. Examines contributions by leading figures, from Freud, Boas, Benedict, and Whorf through modern studies of spatial cognition and navigation.

**Prerequisite:** ANTH 18210 or PSYC 11762.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Diversity Global

**ANTH 48250 MEDICAL ANTHROPOLOGY (DIVG) 3 Credit Hours**

(Cross-listed with ANTH 58250) This course teaches students the central concepts and methods of medical anthropology, treating illness and healing as biocultural, political and experiential phenomena. The course considers both the specificity of local medical cultures and the complex interactions among the environment, human behavior and political and economic policies that shape them. The course will sensitize students to cultural issues in sickness and health care, and provide some critical analytic concepts and tools. Students with JUNIOR standing or above may request that the prerequisite be waived.

**Prerequisite:** ANTH 18210 or ANTH 18630.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Diversity Global

**ANTH 48262 PEOPLES AND CULTURES OF AMAZONIA (DIVG) 3 Credit Hours**

(Slashed with ANTH 58262) This course introduces students to the cultural traditions of Lowland South American peoples. Through a variety of ethnographic readings and films students will explore key anthropological themes such as the relationship between 'nature' and 'culture', gender relations, violence, anthropological ethics and the impacts of colonialism and globalization. Topics covered include: cosmology, personhood, ritual practices, sorcery, shamanism, gender and indigenous activism. Students with Junior standing or above may request that the prerequisite be waived.

**Prerequisite:** ANTH 18210.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Diversity Global

**ANTH 48280 BEING HUMAN: SIGNS AND SYMBOLS 3 Credit Hours**

An exploration of semiotic anthropology, the study of the production and communication of meaning through signs and symbols in human life, from both a humanistic and a scientific perspective. Special emphasis is on what it means to be human from a spatial as well as an evolutionary perspective as it relates to our sustainability crisis. The topic is crucial to our species, and to life on earth more generally, given the current globalization of modernity and the propagation of its non-sustainable definition of human being.

**Prerequisite:** Sophomore standing or above.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ANTH 48295 SPECIAL TOPICS IN CULTURAL ANTHROPOLOGY 3 Credit Hours**

Special topics in anthropology offered irregularly when unusual resources or opportunities exist. Topic announced when scheduled.

**Prerequisite:** ANTH 18210.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ANTH 48300 ADVANCED FORENSIC GENETICS 3 Credit Hours**

(Slashed with ANTH 58300) Forensic genetics is a field in which the properties of proteins and nucleic acids (genes) are utilized to identify the person that produced them. This is the second in a two-course series, and it focuses on the analysis and interpretation of molecular forensic data, as used in criminal investigations. Topics include quantitative PCR, capillary electrophoresis and electrophoretic artifacts, NRC and ISFG recommendations, CODIS database, familial searches, low-copy DNA, mixture deduction, forensic statistics, missing persons, paternity tests, mass disaster identifications, quality control, accreditations and validations, courtroom testimony, legal challenges to DNA typing, and new approaches and technologies.

**Prerequisite:** ANTH 28300.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ANTH 48360 ANTHROPOLOGY OF GENDER AND SEXUALITY (DIVG) 3 Credit Hours**

(Slashed with ANTH 58360) This course examines how people experience gender – what it means to be a man or woman – and sexuality in a variety of historical and cultural contexts. It explores how gender and sexuality intersect with other categories such as race, social class, and other markers of self and societal status. Students will gain a greater sense of the diversity of human social practices and beliefs regarding gender and sexuality across cultures. Students with Junior standing or above may request that the prerequisite be waived.

**Prerequisite:** ANTH 18210.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Diversity Global

**ANTH 48425 ANCIENT MESOAMERICA 3 Credit Hours**

(Cross-listed with ANTH 58425) Comparative analysis of Mesoamerican societies from the arrival of the first Americans over 10,000 years ago to European colonization in the 16th century A.D., including major pre-Columbian civilizations.

**Prerequisite:** ANTH 18420.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ANTH 48440 ARCHAEOLOGY OF ANCIENT OHIO 3 Credit Hours**

(Cross-listed with ANTH 58440) Cultural evolution and human-environmental relationships in the ancient Ohio region documenting an 11,000 year period from initial occupation to the beginning of European written history.

**Prerequisite:** ANTH 18420.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ANTH 48450 ANCIENT CIVILIZATIONS 3 Credit Hours**

(Slashed with ANTH 58450) This course will explore the mechanisms involved in the development of early complex societies around the globe. Students will be introduced to cross-cultural comparative analysis to explore theories regarding the rise of the state in various ecological environments, as well as other causal explanations and organizational parameters associated with ancient state formation and maintenance.

**Prerequisite:** ANTH 18420.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ANTH 48492 ARCHAEOLOGICAL FIELD METHODS (ELR) 3 Credit Hours**

(Repeatable for a maximum of 18 credit hours) (Cross-listed with ANTH 58492) Field and laboratory techniques in archaeological research.

**Prerequisite:** Special approval.

**Schedule Type:** Field Experience, Lecture

**Contact Hours:** 1.66 lecture, 4 other

**Grade Mode:** Standard Letter

**Attributes:** Experiential Learning Requirement

**ANTH 48495 SPECIAL TOPICS IN ARCHAEOLOGY 3 Credit Hours**

Special topics in anthropology offered irregularly when unusual resources or opportunities exist. Topic announced when scheduled.

**Prerequisite:** ANTH 18420.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ANTH 48550 FORENSIC SCIENCE IN THE COURTROOM 3 Credit Hours**

(Slashed with ANTH 58550) This course will provide Students with an understanding of the types of biological forensic data utilized in court, and the strengths and weaknesses of these data. Though multiple types of analyses will be discussed, emphasis will be placed on DNA (STR) data, as it is the predominant type of biological evidence used today. The course will also cover the steps required to determine whether a new type of analysis is admissible at trial. Basic courtroom procedures, biases in data interpretation and presentation, case studies, and moot courts will be included.

**Prerequisite:** Junior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ANTH 48623 HUMAN VARIATION 3 Credit Hours**

(Cross-listed with ANTH 58623) A detailed anthropological examination of the causes and extent of modern human variability.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ANTH 48630 PACIFIC ISLAND CULTURES (DIVG) 3 Credit Hours**

Peoples and characteristics of culture areas of Pacific Islands, including Polynesia, Melanesia and Micronesia with analysis of several representative cultures from these areas.

**Prerequisite:** ANTH 18210.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Diversity Global

**ANTH 48692 FIELD WORK IN BIOLOGICAL ANTHROPOLOGY (ELR) 3 Credit Hours**

(Repeatable for credit) (Cross-listed with ANTH 58692) Can be applied to any bioanth field of study and off-campus activity, ranging from museum work to U.S. and international research projects.

**Prerequisite:** Special approval.

**Schedule Type:** Field Experience

**Contact Hours:** 3 other

**Grade Mode:** Satisfactory/Unsatisfactory

**Attributes:** Experiential Learning Requirement

**ANTH 48695 SPECIAL TOPICS IN BIOLOGICAL ANTHROPOLOGY 3 Credit Hours**

Special topics in anthropology offered irregularly when unusual resources or opportunities exist. Topic announced when scheduled.

**Prerequisite:** ANTH 18630.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ANTH 48810 HUMAN PALEONTOLOGY 3 Credit Hours**

(Cross-listed with ANTH 58810) Study of primate fossils of the Miocene and Pliocene to include the origins of humans and their earliest ancestors.

**Prerequisite:** ANTH 18630.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ANTH 48820 HUMAN MUSCULO-SKELETAL SYSTEM 3 Credit Hours**

(Cross-listed with ANTH 58820) A largely hands-on course introducing the study of human anatomy for students interested in biological anthropology and archaeology. Topics include skeletal and functional anatomy biomechanics and estimation of age and sex from isolated bones.

**Prerequisite:** Junior standing or above.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ANTH 48830 HUMAN BEHAVIORAL ECOLOGY AND EVOLUTION (DIVG) (ELR) (WIC) 3 Credit Hours**

(Cross-listed with ANTH 58830) How 'unique' is human behavior? Using an evolutionary perspective, we will explore the evolution of human mating systems and parental investment.

**Prerequisite:** ANTH 18630 or BSCI 30156.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Diversity Global, Experiential Learning Requirement, Writing Intensive Course

**ANTH 48835 PRIMATE ECOLOGY AND CONSERVATION 3 Credit Hours**

(Slashed with ANTH 58835) Study of the geographic distribution and evolutionary ecology of prosimians, monkeys and apes and human and climatic effects on their long-term survival.

**Prerequisite:** ANTH 18630 or ANTH 38680 or BSCI 10120.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ANTH 48850 NATURAL SELECTION ACCORDING TO DARWIN 3 Credit Hours**

(Slashed with ANTH 58850) Darwin's Origin of Species transformed our understanding of the natural world. Although he was not aware of the biological constituents of inheritance (i.e. genetics and the modern synthesis), his three ingredients for a system of descent with modification – variation, inheritance, and sorting – were wildly influential. This course will not only explore how Darwin understood his monumental theory, but also show that Darwin's original proposal explains both biological and cultural evolution. Students will gain an understanding of how Darwin's theory provided a foundation for modern anthropological thought and continues to inform anthropological queries.

**Prerequisite:** Junior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ANTH 48889 INTERNATIONAL EXPERIENCE (ELR) 1-4 Credit Hours**

(Slashed with ANTH 58889) Faculty-led study abroad experiences.

**Prerequisite:** None.

**Schedule Type:** International Experience

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**Attributes:** Experiential Learning Requirement

**ANTH 58001 QUALITATIVE RESEARCH METHODS IN ANTHROPOLOGY 3 Credit Hours**

(Slashed with ANTH 48001) This course covers the qualitative research methods employed by anthropologists to collect and analyze data. Students will gain skills in ethnography, research design and analysis, and the ethical responsibilities associated with data collection and storage.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ANTH 58010 NORTH AMERICA'S ICE AGE HUNTERS 3 Credit Hours**

(Slashed with ANTH 48010) This class is an in-depth study of the Clovis people, their culture, their technology, their ancestors, and their progeny. The Clovis culture represents the first peoples of North America during the Pleistocene (Ice Age), over 13,000 years ago. These first Americans were colonizers to the New World, and tackled a dangerous and unfamiliar landscape.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ANTH 58023 FORENSIC ARCHAEOLOGY FIELD SCHOOL 3 Credit Hours**

(Slashed with ANTH 48023) This course provides students with practical experience in archaeological fieldwork in the context of a mock crime scene. Students will excavate a complex burial feature. Surface survey, excavation and recording techniques, field drawing, and processing of bones and artifacts will be taught.

**Prerequisite:** Graduate Standing.

**Schedule Type:** Field Experience, Laboratory, Lecture

**Contact Hours:** 1 lecture, 3 lab, 3 other

**Grade Mode:** Standard Letter

**ANTH 58093 VARIABLE TITLE WORKSHOP IN ANTHROPOLOGY 1-6 Credit Hours**

(Repeatable for credit) (Cross-listed with ANTH 48093) Classroom discussions and field study activity focused on professional and disciplinary concerns. Specific content varies with workshop group.

**Prerequisite:** Graduate standing.

**Schedule Type:** Workshop

**Contact Hours:** 1-6 other

**Grade Mode:** Satisfactory/Unsatisfactory

**ANTH 58095 SPECIAL TOPICS IN ANTHROPOLOGY 3 Credit Hours**

(Repeatable for credit) (Cross-listed with ANTH 48095) Offered irregularly when unusual resources and/or opportunities permit.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ANTH 58150 RELIGION: A SEARCH FOR MEANING 3 Credit Hours**

(Slashed with ANTH 48150) This course teaches students anthropological approaches to the study of religious beliefs and practices, as well as the role of religion in bringing about social change. Topics covered include: ritual, myth, witchcraft, sorcery, shamanism, syncretism, secularism and fundamentalism. Students will appreciate the diversity of ways in which religion is manifested cross-culturally and understand the different roles that religious beliefs play in human life.

**Prerequisite:** Graduate Standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ANTH 58212 KINSHIP AND SOCIAL ORGANIZATION 3 Credit Hours**

(Cross-listed with ANTH 48212) This course employs cross-cultural approaches to the understanding of marriage, family organization, descent and kinship system.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ANTH 58214 POLITICS OF CULTURE 3 Credit Hours**

(Slashed with ANTH 48214) This course will address the way in which culture has been politicized. It will look at issues such as cultural relativism and objectivity in anthropological studies with reference to specific peoples and geographic areas.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ANTH 58220 CULTURAL ECOLOGY AND SUSTAINABILITY 3 Credit Hours**

Cross-listed with ANTH 48220) Exploration of the dynamic relationship between socio-cultural systems and the physical-biological environment through Anthropology's comparative perspective on the crucial contemporary need to foster a sustainable society.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter



**ANTH 58225 ARCHAEOLOGY OF DEATH 3 Credit Hours**

(Cross-listed with ANTH 48225) Archaeologists study cemeteries to learn how societies treat their dead, as well as work at mass disaster scenes, and clandestine graves. They aid law enforcement in many situations where human remains have been skeletonized. This course will provide students with an understanding of the processes and procedures involved in each.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ANTH 58230 SOCIO-CULTURAL CHANGE 3 Credit Hours**

(Cross-listed with ANTH 48230) Analysis of institutional changes where peoples of different cultures are in sustained contact.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ANTH 58242 ARCHAEOLOGICAL CERAMICS 3 Credit Hours**

(Slashed with 48242) This course will provide students with essential archaeological knowledge of ceramic materials via lectures and hands-on learning activities. Pottery will be addressed in a holistic manner, starting with its geochemical origins, through the various ways humans have sourced and manipulated this versatile raw material, as well as standard archaeological methods for study and interpretation. Ceramic materials from cultures all around the world will be discussed in depth to reveal both functional and social significance.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ANTH 58245 PSYCHOLOGICAL ANTHROPOLOGY 3 Credit Hours**

(Slashed with 48245) Overview of psychological anthropology. Includes comparative cross-cultural socialization and personality development; group and national character; relationship of personality to politics, social and occupational roles, and recent explorations of the relationship between culture and cognition. Examines contributions by leading figures, from Freud, Boas, Benedict, and Whorf through modern studies of spatial cognition and navigation.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ANTH 58250 MEDICAL ANTHROPOLOGY 3 Credit Hours**

(Cross-listed with ANTH 48250) This course teaches students the central concepts and methods of medical anthropology, treating illness and healing as biocultural, political and experiential phenomena. The course considers both the specificity of local medical cultures and the complex interactions among the environment, human behavior and political and economic policies that shape them. The course will sensitize students to cultural issues in sickness and health care, and provide some critical analytic concepts and tools.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ANTH 58262 PEOPLES AND CULTURES OF AMAZONIA 3 Credit Hours**

(Slashed with ANTH 48262) This course introduces students to the cultural traditions of Lowland South American peoples. Through a variety of ethnographic readings and films students will explore key anthropological themes such as the relationship between 'nature' and 'culture', gender relations, violence, anthropological ethics and the impacts of colonialism and globalization. Topics covered include: cosmology, personhood, ritual practices, sorcery, shamanism, gender and indigenous activism.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ANTH 58295 SPECIAL TOPICS IN CULTURAL ANTHROPOLOGY 3 Credit Hours**

Special topics in anthropology offered irregularly when unusual resources or opportunities exist. Topic announced when scheduled.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ANTH 58300 ADVANCED FORENSIC GENETICS 3 Credit Hours**

(Slashed with ANTH 48300) Forensic genetics is a field in which the properties of proteins and nucleic acids (genes) are utilized to identify the person that produced them. This is the second in a two-course series, and it focuses on the analysis and interpretation of molecular forensic data, as used in criminal investigations. Topics include quantitative PCR, capillary electrophoresis and electrophoretic artifacts, NRC and ISFG recommendations, CODIS database, familial searches, low-copy DNA, mixture deduction, forensic statistics, missing persons, paternity tests, mass disaster identifications, quality control, accreditations and validations, courtroom testimony, legal challenges to DNA typing, and new approaches and technologies.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ANTH 58360 ANTHROPOLOGY OF GENDER AND SEXUALITY 3 Credit Hours**

(Slashed with ANTH 48360) This course examines how people experience gender – what it means to be a man or woman – and sexuality in a variety of historical and cultural contexts. It explores how gender and sexuality intersect with other categories such as race, social class, and other markers of self and societal status. Students will gain a greater sense of the diversity of human social practices and beliefs regarding gender and sexuality across cultures.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ANTH 58425 ANCIENT MESOAMERICA 3 Credit Hours**

(Cross-listed with ANTH 48425) Comparative analysis of Mesoamerican societies from the arrival of the first Americans over 10,000 years ago to European colonization in the 16th century A.D., including major pre-Columbian civilizations.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter



**ANTH 58440 ARCHAEOLOGY OF ANCIENT OHIO 3 Credit Hours**  
 (Cross-listed with ANTH 48440) Cultural evolution and human-environmental relationships in the ancient Ohio region documenting an 11,000 year period from initial occupation to the beginning of European written history.  
**Prerequisite:** Graduate standing.  
**Schedule Type:** Lecture  
**Contact Hours:** 3 lecture  
**Grade Mode:** Standard Letter

**ANTH 58450 ANCIENT CIVILIZATIONS 3 Credit Hours**  
 (Cross-listed with ANTH 48450) This course will explore the mechanisms involved in the development of early complex societies around the globe. Students will be introduced to cross-cultural comparative analysis to explore theories regarding the rise of the state in various ecological environments, as well as other causal explanations and organizational parameters associated with ancient state formation and maintenance.  
**Prerequisite:** Graduate standing.  
**Schedule Type:** Lecture  
**Contact Hours:** 3 lecture  
**Grade Mode:** Standard Letter

**ANTH 58492 ARCHAEOLOGICAL FIELD METHODS 3 Credit Hours**  
 (Repeatable 6 times for credit) (Cross-listed with ANTH 48492) Field and laboratory techniques in archaeological research.  
**Prerequisite:** Graduate standing.  
**Schedule Type:** Field Experience, Lecture  
**Contact Hours:** 1.66 lecture, 4 other  
**Grade Mode:** Standard Letter

**ANTH 58495 SPECIAL TOPICS IN ARCHAEOLOGY 3 Credit Hours**  
 Special topics in anthropology offered irregularly when unusual resources or opportunities exist. Topic announced when scheduled.  
**Prerequisite:** Graduate standing.  
**Schedule Type:** Lecture  
**Contact Hours:** 3 lecture  
**Grade Mode:** Standard Letter

**ANTH 58550 FORENSIC SCIENCE IN THE COURTROOM 3 Credit Hours**  
 (Slashed with ANTH 48550) This course will provide students with an understanding of the types of biological forensic data utilized in court, and the strengths and weaknesses of these data. Though multiple types of analyses will be discussed, emphasis will be placed on DNA (STR) data, as it is the predominant type of biological evidence used today. The course will also cover the steps required to determine whether a new type of analysis is admissible at trial. Basic courtroom procedures, biases in data interpretation and presentation, case studies, and moot courts will be included.  
**Prerequisite:** Graduate standing.  
**Schedule Type:** Lecture  
**Contact Hours:** 3 lecture  
**Grade Mode:** Standard Letter

**ANTH 58623 HUMAN VARIATION 3 Credit Hours**  
 (Cross-listed with ANTH 48623) A detailed anthropological examination of the causes and extent of modern human variability.  
**Prerequisite:** Graduate standing; and special approval.  
**Schedule Type:** Lecture  
**Contact Hours:** 3 lecture  
**Grade Mode:** Standard Letter

**ANTH 58692 FIELD WORK IN BIOLOGICAL ANTHROPOLOGY 3 Credit Hours**  
 (Repeatable for credit) (Cross-listed with ANTH 48692) Can be applied to any bioanth field of study and off-campus activity, ranging from museum work to U.S. and international research projects.  
**Prerequisite:** Approval of project and faculty sponsor; and graduate standing.  
**Schedule Type:** Field Experience  
**Contact Hours:** 3 other  
**Grade Mode:** Satisfactory/Unsatisfactory

**ANTH 58695 SPECIAL TOPICS IN BIOLOGICAL ANTHROPOLOGY 3 Credit Hours**  
 Special topics in anthropology offered irregularly when unusual resources or opportunities exist. Topic announced when scheduled.  
**Prerequisite:** Graduate standing.  
**Schedule Type:** Lecture  
**Contact Hours:** 3 lecture  
**Grade Mode:** Standard Letter

**ANTH 58810 HUMAN PALEONTOLOGY 3 Credit Hours**  
 (Cross-listed with ANTH 48810) Study of primate fossils of the Miocene and Pliocene to include the origins of humans and their earliest ancestors.  
**Prerequisite:** Graduate standing.  
**Schedule Type:** Lecture  
**Contact Hours:** 3 lecture  
**Grade Mode:** Standard Letter

**ANTH 58820 HUMAN MUSCULO-SKELETAL SYSTEM 3 Credit Hours**  
 (Cross-listed with ANTH 48820) A largely hands-on course introducing the study of human anatomy for students interested in biological anthropology and archaeology. Topics include skeletal and functional anatomy, biomechanics, and estimation of age and sex from isolated bones.  
**Prerequisite:** Graduate standing.  
**Schedule Type:** Lecture  
**Contact Hours:** 3 lecture  
**Grade Mode:** Standard Letter

**ANTH 58830 HUMAN BEHAVIORAL ECOLOGY AND EVOLUTION 3 Credit Hours**  
 (Cross-listed with ANTH 48830) How 'unique' is human behavior? Using an evolutionary perspective we will explore the evolution of human mating systems and parental investment.  
**Prerequisite:** Graduate standing.  
**Schedule Type:** Lecture  
**Contact Hours:** 3 lecture  
**Grade Mode:** Standard Letter

**ANTH 58835 PRIMATE ECOLOGY AND CONSERVATION 3 Credit Hours**  
 (Slashed with ANTH 48835) Study of the geographic distribution and evolutionary ecology of prosimians, monkeys and apes and human and climatic effects on their long-term survival.  
**Prerequisite:** Graduate standing.  
**Schedule Type:** Lecture  
**Contact Hours:** 3 lecture  
**Grade Mode:** Standard Letter

**ANTH 58850 NATURAL SELECTION ACCORDING TO DARWIN 3 Credit Hours**

(Slashed with ANTH 48850) Darwin's Origin of Species transformed our understanding of the natural world. Although he was not aware of the biological constituents of inheritance (i.e. genetics and the modern synthesis), his three ingredients for a system of descent with modification – variation, inheritance, and sorting – were wildly influential. This course will not only explore how Darwin understood his monumental theory, but also show that Darwin's original proposal explains both biological and cultural evolution. Students will gain an understanding of how Darwin's theory provided a foundation for modern anthropological thought and continues to inform anthropological queries.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ANTH 58889 INTERNATIONAL EXPERIENCE 1-4 Credit Hours**

(Slashed with ANTH 58889) Faculty-led study abroad experiences.

**Prerequisite:** Graduate standing.

**Schedule Type:** Field Experience, International Experience

**Contact Hours:** 3-12 other

**Grade Mode:** Standard Letter

**ANTH 68091 RESEARCH SEMINAR IN ANTHROPOLOGICAL THEORY 3 Credit Hours**

(Repeatable for credit) An opportunity for advanced students to follow up personal theoretical interests based upon a previously established foundation in theory.

**Prerequisite:** Graduate standing.

**Schedule Type:** Seminar

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**ANTH 68093 VARIABLE TITLE WORKSHOP IN ANTHROPOLOGY 1-6 Credit Hours**

(Repeatable for credit) Classroom presentations and field study focused on professional and disciplinary concerns. Specific content varies with workshop group.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Workshop

**Contact Hours:** 1-6 other

**Grade Mode:** Satisfactory/Unsatisfactory

**ANTH 68095 SPECIAL TOPICS IN ANTHROPOLOGY 3 Credit Hours**

(Repeatable for credit) Offered irregularly when unusual resources and/or opportunities permit.

**Prerequisite:** 6 graduate hours toward MA in Anthropology; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ANTH 68096 INDIVIDUAL INVESTIGATION 1-3 Credit Hours**

(Repeatable for credit) Readings and/or research supervised by member of graduate faculty. Petition form available in the anthropology department office.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Individual Investigation

**Contact Hours:** 1-3 other

**Grade Mode:** Standard Letter-IP

**ANTH 68098 RESEARCH 1-15 Credit Hours**

(Repeatable for credit) Research or individual investigation. Repeated registration permitted. Petition form available in the anthropology department office.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Research

**Contact Hours:** 1-15 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**ANTH 68199 THESIS I 2-6 Credit Hours**

Thesis student must register for total of 6 hours, 2 to 6 hours in a single semester, or distributed over several semesters if desired.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Masters Thesis

**Contact Hours:** 2-6 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**ANTH 68230 PROBLEMS IN CULTURAL ANTHROPOLOGY 3 Credit Hours**

Basic graduate course in cultural anthropology required of all M.A. candidates. Course deals with major topics within this subdiscipline of anthropology.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ANTH 68241 ETHNIC GROUP ANALYSIS: PACIFIC ISLANDS 3 Credit Hours**

Peoples and characteristics of culture areas of the Pacific Islands, including Polynesia, Melanesia and Micronesia with analysis of several representative cultures from these areas.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ANTH 68299 THESIS II 2 Credit Hours**

Thesis students must continue registration each semester until all degree requirements are met.

**Prerequisite:** ANTH 68199; and graduate standing.

**Schedule Type:** Masters Thesis

**Contact Hours:** 3 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**ANTH 68430 PROBLEMS IN WORLD PREHISTORY 3 Credit Hours**

Basic graduate course in prehistoric archaeology required of all M.A. candidates.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ANTH 68630 PRINCIPLES OF BIOLOGICAL ANTHROPOLOGY 3 Credit Hours**

(Cross-listed with BMS 78630) A graduate-level introduction to the field of biological anthropology. Topics include genetics, human variation, fossil and modern primates, early man.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ANTH 68637 BIOANTHROPOLOGICAL DATA ANALYSIS I 5 Credit Hours**

(Cross-listed with BMS 78637) Examination of methods of univariate and bivariate experimental design. This survey emphasizes tests of hypothesis and estimation techniques with both classical and nonparametric procedures.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 5 lecture

**Grade Mode:** Standard Letter

**ANTH 68638 BIOANTHROPOLOGICAL DATA ANALYSIS II 3 Credit Hours**

(Cross-listed with BMS 78638) This survey of multivariate analysis in anthropology includes one-sample data exploration, multiple sample problems and regression methods. It also includes computer application. Graduate standing.

**Prerequisite:** ANTH 68637 (same course as BMS 78638).

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

## Arabic (ARAB)

**ARAB 11101 ELEMENTARY ARABIC I 4 Credit Hours**

Students develop ability to communicate on familiar topics in culturally appropriate ways using Modern Standard Arabic and colloquialisms of at least one dialect. They learn grammatical structures and vocabulary to enable them to function in the Novice range and develop a few abilities in the Intermediate range.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 4 lecture

**Grade Mode:** Standard Letter

**ARAB 11102 ELEMENTARY ARABIC II 4 Credit Hours**

Students develop ability to communicate on familiar topics in culturally appropriate ways using Modern Standard Arabic and colloquialisms of at least one dialect. They learn grammatical structures and vocabulary to enable them to function near the Intermediate range level.

**Prerequisite:** ARAB 11101.

**Schedule Type:** Lecture

**Contact Hours:** 4 lecture

**Grade Mode:** Standard Letter

**ARAB 21201 INTERMEDIATE ARABIC I 3 Credit Hours**

Development of speaking, listening, reading and writing skills. Students accomplish real-world communicative tasks in culturally appropriate ways using Modern Standard Arabic and colloquialisms of at least one dialect. Students gain increased familiarity with products, practices, and perspectives of target culture(s). They learn grammatical structures and vocabulary to enable them to function near the Intermediate range level in a number of areas.

**Prerequisite:** ARAB 11102.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ARAB 21202 INTERMEDIATE ARABIC II 3 Credit Hours**

Development of speaking, listening, reading and writing skills. Students accomplish real-world communicative tasks in culturally appropriate ways using Modern Standard Arabic and colloquialisms of at least one dialect. They learn additional grammatical structures and vocabulary to enable them to function consistently in the Intermediate range with emergent abilities in the Advanced level.

**Prerequisite:** ARAB 21201.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ARAB 30095 SPECIAL TOPICS IN ARABIC CULTURE AND LANGUAGE 3 Credit Hours**

(Repeatable for a maximum of 9 credit hours) Topics in Arabic civilization, culture or language.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ARAB 31301 ADVANCED INTERMEDIATE ARABIC I 3 Credit Hours**

Continuation of the study of Modern Standard Arabic and colloquial Arabic in the context of Arab cultures. Further development of listening, speaking, reading and writing skills, using a variety of cultural materials.

**Prerequisite:** ARAB 21202.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ARAB 31302 ADVANCED INTERMEDIATE ARABIC II 3 Credit Hours**

Developing skills of reading, writing, speaking and understanding, this course enhances students' ability to express simple and compound sentences related to everyday activities; examine differences between present, past and future tenses; write assignments using a variety of writing techniques, i.e., describing geographical places, narrating an event, arguing against or for something, and reflecting on news reports; improve students understanding of the world around them using authentic materials on a variety of topics in Modern Standard Arabic; practice the use of grammatical structures and build new vocabulary related to Arab culture and social life in an attempt to improve students' ability to understand texts and express their ideas at an advanced level.

**Prerequisite:** ARAB 31301.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ARAB 37231 TRANSLATION PRACTICE: ARABIC 1 Credit Hour**

Translation practice with Arabic texts using principles and techniques learned in the lecture class.

**Prerequisite:** ARAB 21202.

**Corequisite:** TRST 30230.

**Schedule Type:** Lecture

**Contact Hours:** 1 lecture

**Grade Mode:** Standard Letter

**ARAB 37240 CONVERSATION FOR BUSINESS AND SPECIAL****PURPOSES: ARABIC 3 Credit Hours**

Introduction to the special vocabulary of business and other special subject areas; introduces the concept of language for special purposes and emphasizes the use of special vocabulary in conversations in business and other settings.

**Prerequisite:** ARAB 31301.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ARAB 41096 INDIVIDUAL INVESTIGATION 1-3 Credit Hours**

(Repeatable for a total of 6 credit hours) Individual study supervised by a faculty member on an approved topic dealing with Arabic language and/or culture.

**Prerequisite:** ARAB 21201.

**Schedule Type:** Individual Investigation

**Contact Hours:** 1-3 other

**Grade Mode:** Standard Letter-IP

**ARAB 41201 ADVANCED ARABIC I 3 Credit Hours**

Continuation of ARAB 31302. Emphasis is on building active vocabulary for comprehension, reading authentic texts, writing of connected discourse and the development of higher levels of conversational proficiency.

**Prerequisite:** ARAB 31302; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ARAB 41202 ADVANCED ARABIC II 3 Credit Hours**

Enhancing students' ability to speak, understand and write analytically; refining students' ability to use conjunctives and logical connectives at a higher level; understanding stylistic features such as tone, register, figures of speech (i.e., irony, metaphor, simile, alliteration, etc), phrase, clause, sentence and idiomatic structures; enhancing students' ability to use appropriate techniques in descriptive, argumentative, expository writing.

**Prerequisite:** ARAB 41201; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ARAB 41301 ARABIC CULTURE 3 Credit Hours**

Survey of the Arab world covering its geographical, ethnic, religious, and linguistic diversity and the roots of its current socio-cultural context.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ARAB 41302 BUSINESS ARABIC 3 Credit Hours**

Study of the business protocol, language functions, texts and vocabulary associate with travel and business in the Arabic-speaking world.

**Prerequisite:** ARAB 31302.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ARAB 47230 ADVANCED TRANSLATION PRACTICE: ARABIC 3 Credit Hours**

Theory and practice course that discusses translation theory and emphasizes Arabic-English translation of selected texts in business, technology, medicine and law.

**Prerequisite:** ARAB 37231.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ARAB 47240 BUSINESS AND SPECIAL TEXTS:ARABIC 3 Credit Hours**

Introduction to the special vocabulary of business and other special subject areas. Introduces the concept of language for special purposes and emphasizes the use of special vocabulary in business and other settings.

**Prerequisite:** ARAB 37240.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ARAB 67010 PRACTICE OF ARABIC TRANSLATION 2 Credit Hours**

Introductory course in which students translate a variety of non-specialized, non-fiction short texts in different domains, identify the most common semantic, syntactic, stylistic, cultural and discourse-level problems encountered in translation, and apply appropriate cognitive strategies.

**Prerequisite:** Graduate standing.

**Pre/corequisite:** TRST 60010.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**ARAB 67098 RESEARCH 1-15 Credit Hours**

Research or individual investigation for students to pursue an area of interest, with the guidance of a Kent State faculty member. Credit earned may be applied towards degree requirements with department approval.

**Prerequisite:** Graduate standing.

**Schedule Type:** Research

**Contact Hours:** 1-15 other

**Grade Mode:** Standard Letter

**ARAB 67240 LITERARY AND CULTURAL TRANSLATION 3 Credit Hours**

Translation of documents from a variety of literary and cultural sources, including literature, expository and journalistic prose, speeches and essays in and from Arabic. '

**Prerequisite:** ARAB 67010 and TRST 60010; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ARAB 67250 COMMERCIAL, LEGAL AND DIPLOMATIC TRANSLATION 3 Credit Hours**

Translating a variety of commercial, financial and legal texts, with special emphasis on text-types most generally translated by professional translators; examining diplomatic texts to understand the language of diplomacy and find the best way to translate it into the target language. Texts subjected for translation from Arabic into English and English into Arabic include employment contracts, articles of incorporation, annual financial statements, diplomatic or official notes, presidential speeches, and international business articles.

**Prerequisite:** ARAB 67010 and TRST 60010; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ARAB 67251 SCIENTIFIC, TECHNICAL AND MEDICAL TRANSLATION 3 Credit Hours**

Introducing methods and resources for the translation of scientific, technical, industrial and medical documents; translating a variety of scientific and medical texts, with special emphasis on text-types most generally translated by professional translators.

**Prerequisite:** TRST 60001 and TRST 60010; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ARAB 67979 TRANSLATION CASE STUDY 3 Credit Hours**

Students are responsible for a major translation and a terminology glossary as well as a critical analysis of the source text, the problems encountered during the translation process and the strategies used to solve them.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Satisfactory/Unsatisfactory-IP

## Architectural Studies (ARCS)

**ARCS 10121 REPRESENTATION OF DESIGN I 3 Credit Hours**

A survey of the techniques and assumptions of basic architectural design concepts and representation of the built environment through analytical and synthetic exercises that introduce fundamental design skills. In order to integrate students into the college and the field, the exercises are supplemented by readings in contemporary visual culture.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ARCS 10122 REPRESENTATION OF DESIGN II 3 Credit Hours**

Continuation of ARCS 10121 with an emphasis on 3-D thinking and representation, critical skills and the role of images in architectural culture and society. The course also introduces the wider application of design principles in graphic design, digital media and the visualization of information.

**Prerequisite:** ARCS 10121 or ARCH 10101.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ARCS 20121 STUDIO FOR ARCHITECTURAL STUDIES 4 Credit Hours**

Course exposes students to the distinct design processes, final products, and interconnectedness of various allied design disciplines including (but not limited to) graphic design, interior design, landscape architecture, urban design, industrial design, architecture and historic preservation.

**Prerequisite:** AED 10102; and Architectural Studies major.

**Schedule Type:** Studio

**Contact Hours:** 8 other

**Grade Mode:** Standard Letter

**ARCS 20122 STUDIO FOR ARCHITECTURAL STUDIES II 4 Credit Hours**

Studio allows students to further develop their design skills in relation to a theme or shared research topic that crosses the disciplinary boundaries of architecture and challenges conventional ideas of the role design can play in developing knowledge.

**Prerequisite:** ARCS 20121 or ARCH 20101.

**Schedule Type:** Studio

**Contact Hours:** 4 other

**Grade Mode:** Standard Letter

**ARCS 30123 MATERIALS AND PROCESS OF MAKING 3 Credit Hours**

Seeks to introduce and foster an ease of mobility through various digital design environments utilizing familiar techniques of design production (i.e. drawing, modeling, rendering, etc.). Students engage in digital modes of production that will enable the testing of material, spatial, and tectonic performance through scalar prototyping.

**Prerequisite:** AED 10102; or special approval for students who have completed equivalent design foundations studios in areas such as Fashion Design, Visual Communications Design or Studio Art.

**Schedule Type:** Lecture, Studio

**Contact Hours:** 1 lecture, 4 other

**Grade Mode:** Standard Letter

**ARCS 30124 METHODS AND THEORIES OF REPRESENTATION 3 Credit Hours**

Seeks to examine traditional and contemporary methods of architectural representation as generative tools that mediate between individual idea and constructed environment.

**Prerequisite:** AED 10102; or special approval for students who have completed equivalent design foundations studios in areas such as Fashion Design, Visual Communications Design or Studio Art.

**Schedule Type:** Lecture, Studio

**Contact Hours:** 1 lecture, 4 other

**Grade Mode:** Standard Letter

**ARCS 30321 STRUCTURAL TYPOLOGY 3 Credit Hours**

Course provides an intuitive introduction to architectural structures that focuses on the historical development of structural types, structure as organization, the structural properties of materials, the physical form-finding design process and scientific method through lab exercises and design projects.

**Prerequisite:** AED 10102 or ARCH 10012.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter



**ARCS 30421 ENVIRONMENTAL IMPERATIVES 3 Credit Hours**  
 Course introduces students to various viewpoints on sustainable built environments with emphasis on the ethical, ecological, social, political, economic, and technical implications. Engages students in debates on theoretical and practical positions on sustainability, and the organizations that support sustainable practices in the building industry.  
**Prerequisite:** AED 10102 or ARCH 10012 or Sustainability Minor.  
**Schedule Type:** Lecture  
**Contact Hours:** 3 lecture  
**Grade Mode:** Standard Letter

**ARCS 40022 URBAN DESIGN DISCOURSE (ELR) 3 Credit Hours**  
 Course explores the interconnections among making space, image creation and inhabiting the city; engages students in visual and textual documentation of urban life and phenomena. Course presents history, theory and practices of documentation in conjunction with investigation of, and frequent visits to, Cleveland sites as the basis for student projects.  
**Prerequisite:** ARCH 10012; and junior standing.  
**Schedule Type:** Lecture  
**Contact Hours:** 3 lecture  
**Grade Mode:** Standard Letter  
**Attributes:** Experiential Learning Requirement

**ARCS 40114 THEORY AND CRITICISM IN ARCHITECTURAL MEDIA (WIC) 3 Credit Hours**  
 Aimed at investigating the increasingly intertwined issues that link contemporary architectural theory and criticism with the world of media.  
**Prerequisite:** ARCH 10012; and junior standing.  
**Schedule Type:** Lecture  
**Contact Hours:** 3 lecture  
**Grade Mode:** Standard Letter  
**Attributes:** Writing Intensive Course

## Architecture (ARCH)

**ARCH 10001 UNDERSTANDING ARCHITECTURE (KFA) 3 Credit Hours**  
 The nature of the built environment, its forms and functions are explored within the cultural contexts of ecology, technology, human behavior, symbolism, art and history.  
**Prerequisite:** None.  
**Schedule Type:** Lecture  
**Contact Hours:** 3 lecture  
**Grade Mode:** Standard Letter  
**Attributes:** Kent Core Fine Arts, Transfer Module Fine Arts

**ARCH 10011 GLOBAL ARCHITECTURAL HISTORY I (KFA) 3 Credit Hours**  
 Global history of architecture from Neolithic times through the 16th century.  
**Prerequisite:** None.  
**Schedule Type:** Lecture  
**Contact Hours:** 3 lecture  
**Grade Mode:** Standard Letter  
**Attributes:** Kent Core Fine Arts, Transfer Module Fine Arts

**ARCH 10012 GLOBAL ARCHITECTURAL HISTORY II (KFA) 3 Credit Hours**  
 Global history of architecture from the 17th century to 2000.  
**Prerequisite:** ARCH 10011 or ARTH 22007.  
**Schedule Type:** Lecture  
**Contact Hours:** 3 lecture  
**Grade Mode:** Standard Letter  
**Attributes:** Kent Core Fine Arts, Transfer Module Fine Arts

**ARCH 10093 WORKSHOP: VARIABLE TITLE 1-3 Credit Hours**  
 (Repeatable for credit) Topics vary per workshop offering.  
**Prerequisite:** Special approval.  
**Schedule Type:** Workshop  
**Contact Hours:** 1-3 other  
**Grade Mode:** Satisfactory/Unsatisfactory

**ARCH 10101 FIRST YEAR DESIGN STUDIO I 3 Credit Hours**  
 Introduction to the fundamental principles of visual organization, structural organization, graphic communications, historical precedence and current directions in architecture. Graphic techniques include free hand drawing and technical orthographics, axonometrics and perspectives.  
**Prerequisite:** Architecture major or Interior Design major.  
**Schedule Type:** Studio  
**Contact Hours:** 3 other  
**Grade Mode:** Standard Letter

**ARCH 10102 FIRST-YEAR DESIGN STUDIO II 3 Credit Hours**  
 Investigations into strategies of form making through the introduction of client, type, context, site and form/space theories, 2-D and 3-D representation techniques and analysis of related reference architects.  
**Prerequisite:** ARCH 10101.  
**Schedule Type:** Studio  
**Contact Hours:** 3 other  
**Grade Mode:** Standard Letter

**ARCH 10111 HISTORY OF ARCHITECTURE I 3 Credit Hours**  
 History of architecture from pre-history through the Gothic period.  
**Prerequisite:** None.  
**Schedule Type:** Lecture  
**Contact Hours:** 3 lecture  
**Grade Mode:** Standard Letter

**ARCH 20101 SECOND-YEAR DESIGN STUDIO I 3 Credit Hours**  
 The introduction of a building design process that emphasizes the integration of program requirements with specific form topologies using line and plane as the primary elements to provide shape and space.  
**Prerequisite:** ARCH 10102.  
**Schedule Type:** Studio  
**Contact Hours:** 3 other  
**Grade Mode:** Standard Letter

**ARCH 20102 SECOND-YEAR DESIGN STUDIO II 3 Credit Hours**  
 The introduction of a building design process that emphasizes the integration of program requirements with form typologies that are both influenced and informed by specific site context. Line and plane and primary configurational shapes are again incorporated to develop building form solutions.  
**Prerequisite:** ARCH 20101.  
**Schedule Type:** Studio  
**Contact Hours:** 3 other  
**Grade Mode:** Standard Letter

**ARCH 20112 HISTORY OF ARCHITECTURE II 3 Credit Hours**

History of architecture from the Medieval era through the 19th century.

**Prerequisite:** Architecture major; or Architectural Studies major or minor.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ARCH 20113 HISTORY OF ARCHITECTURE III 3 Credit Hours**

A history of architecture in the 20th century.

**Prerequisite:** ARCH 20112; and Architecture or Architectural Studies major or Architectural Studies minor.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ARCH 20201 BEYOND WESTERN ARCHITECTURE 3 Credit Hours**

Course introduces students to the broad realm of contributions to world architecture made by cultures and civilizations that were not in the traditional sphere of Western/European influence.

**Prerequisite:** ARCH 10111 and ARCH 20112; and Architecture major or Architectural Studies major.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ARCH 20301 INTRODUCTION TO BUILDING STRUCTURES 3 Credit Hours**

An introduction to building structures, statics, strength of materials, analysis for shear-moment-displacement and loads. Includes dead-live-wind-earthquake and building code requirements for structural safety.

**Prerequisite:** MATH 12011 and MATH 12012 (or MATH 12002); and PHY 13001 or PHY 13011; and Architecture major.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ARCH 20601 COMPUTER APPLICATIONS IN ARCHITECTURE I 1-3 Credit Hours**

Course provides a basic understanding of two-dimensional CAD operations, parametric building design and building information modeling (BIM).

**Prerequisite:** Architecture major or Architectural Studies major or Interior Design major.

**Schedule Type:** Studio

**Contact Hours:** 15-45 other

**Grade Mode:** Standard Letter

**ARCH 20602 COMPUTER APPLICATIONS IN ARCHITECTURE II 1-3 Credit Hours**

Principles and practices of three-dimension digital modeling and rendering, including production of geometric surfaces and forms using polygon construction, texturing, lighting and rendering.

**Prerequisite:** ARCH 20601; and Architecture major or Architectural Studies major or Interior Design major.

**Schedule Type:** Studio

**Contact Hours:** 15-45 other

**Grade Mode:** Standard Letter

**ARCH 20693 WORKSHOP: COMPUTER APPLICATIONS 1-3 Credit Hours**

(Repeatable for credit) Course provides an exposure to various fundamental computer topics and their application to architectural studies. Topics include file management, network applications, spreadsheets, raster image manipulations, two- and three- dimensional CAD and computer-aided visualization.

**Prerequisite:** Architecture major or Interior Design majors.

**Schedule Type:** Workshop

**Contact Hours:** 1-3 other

**Grade Mode:** Satisfactory/Unsatisfactory

**ARCH 30001 SITE DESIGN (WIC) 1 Credit Hour**

Research component addressing technical, cultural and contextual concerns, influences and directions in site design.

**Prerequisite:** Architecture major; and approved admission to advanced study (third year).

**Corequisite:** ARCH 30101.

**Schedule Type:** Lecture

**Contact Hours:** 1 lecture

**Grade Mode:** Standard Letter

**Attributes:** Writing Intensive Course

**ARCH 30002 URBAN DESIGN 1 Credit Hour**

(Equivalent to ARCH 30012) Lecture component conducted concurrently with ARCH 30102. Course addresses design of form and space in cities through study of precedents, traditions and current directions in urban form-making.

**Prerequisite:** ARCH 30001 and ARCH 30101.

**Corequisite:** ARCH 30102.

**Schedule Type:** Lecture

**Contact Hours:** 1 lecture

**Grade Mode:** Standard Letter

**ARCH 30012 URBAN DESIGN, FLORENCE, ITALY 1 Credit Hour**

(Equivalent to ARCH 30002) Lecture component conducted concurrently with ARCH 30112. Course addresses design of form and space in cities through study of precedents, traditions and current directions in urban form making.

**Prerequisite:** ARCH 30101.

**Corequisite:** ARCH 30112.

**Schedule Type:** Lecture

**Contact Hours:** 1 lecture

**Grade Mode:** Standard Letter

**ARCH 30101 THIRD-YEAR DESIGN STUDIO I 5 Credit Hours**

Studio investigation of the simultaneous concerns of program, site, context and materials of construction. Specific emphasis on the understanding of the goals, objectives, intentions and parameters of site/context in design, including cultural influences.

**Prerequisite:** Architecture major; and approved admission to advanced study (third year).

**Corequisite:** ARCH 30001.

**Schedule Type:** Studio

**Contact Hours:** 5 other

**Grade Mode:** Standard Letter

**ARCH 30102 THIRD-YEAR DESIGN STUDIO II (ELR) 5 Credit Hours**  
(Equivalent to ARCH 30112) Studio investigation with specific emphasis on the understanding of the goals, objectives, intentions and parameters of urban design.

**Prerequisite:** ARCH 30101.

**Corequisite:** ARCH 30002.

**Schedule Type:** Studio

**Contact Hours:** 5 other

**Grade Mode:** Standard Letter

**Attributes:** Experiential Learning Requirement

**ARCH 30112 THIRD-YEAR DESIGN STUDIO II, FLORENCE, ITALY (ELR) 5 Credit Hours**

(Equivalent to ARCH 30102) Studio investigation with specific emphasis on understanding of the goals, objectives, intentions and parameters of urban design.

**Prerequisite:** Special approval.

**Corequisite:** ARCH 30012.

**Schedule Type:** Studio

**Contact Hours:** 5 other

**Grade Mode:** Standard Letter

**Attributes:** Experiential Learning Requirement

**ARCH 40001 SUSTAINABLE DESIGN (WIC) 1 Credit Hour**

(Slashed with ARCH 50001) Research component addressing precedents, traditions, current directions in conservation of natural environment. Principles and methods of ecological design in architecture and urban design.

**Prerequisite:** ARCH 30102 or ARCH 30112.

**Corequisite:** ARCH 40101.

**Schedule Type:** Lecture

**Contact Hours:** 1 lecture

**Grade Mode:** Standard Letter

**Attributes:** Writing Intensive Course

**ARCH 40002 SYSTEMS DESIGN 1 Credit Hour**

(Slashed with ARCH 50002) Lecture and research component addressing comprehensive integration of mechanical, electrical communications structural life safety systems and sustainable design concerns.

**Prerequisite:** ARCH 40101.

**Corequisite:** ARCH 40102.

**Schedule Type:** Lecture

**Contact Hours:** 1 lecture

**Grade Mode:** Standard Letter

**ARCH 40101 FOURTH-YEAR DESIGN STUDIO I 5 Credit Hours**

(Slashed with ARCH 50101) Studio investigation of complex formal and spatial constructs addressing the comprehensive concerns of architecture. Special emphasis on understanding the conservation of the natural environment. Knowledge of CAD is required.

**Prerequisite:** ARCH 30102 or ARCH 30112.

**Corequisite:** ARCH 40001.

**Schedule Type:** Studio

**Contact Hours:** 5 other

**Grade Mode:** Standard Letter

**ARCH 40102 INTEGRATED DESIGN STUDIO 5 Credit Hours**

(Slashed with ARCH 50102) Studio investigation of the comprehensive concerns and understanding of building systems integration. Knowledge of CAD is required.

**Prerequisite:** ARCH 40101.

**Corequisite:** ARCH 40002.

**Schedule Type:** Studio

**Contact Hours:** 5 other

**Grade Mode:** Standard Letter

**ARCH 40301 STRUCTURAL SYSTEMS I 3 Credit Hours**

(Slashed with ARCH 50301) A continuation of building structures, statics strength of materials and systems analysis. Emphasis is on elastic materials, allowable stresses and design for wood and steel structural members and systems.

**Prerequisite:** ARCH 20301; and Architecture major; and approved admission to advanced study (third year).

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 6 other

**Grade Mode:** Standard Letter

**ARCH 40302 STRUCTURAL SYSTEMS II 3 Credit Hours**

(Slashed with ARCH 50302) A continuation of building structures, statics, strength of materials and systems analysis. Emphasis is on inelastic materials, allowable stress and design for masonry and concrete structural members and systems.

**Prerequisite:** ARCH 40301.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**ARCH 40401 METHODS AND MATERIALS I 3 Credit Hours**

(Slashed with ARCH 50401) Introduction to the origins, extraction, properties and processing of the basic materials of construction. Primary focus on wood and masonry-appropriate use and scale including code requirements, methods of construction and design consequences.

**Prerequisite:** Architecture major; and approved admission to advanced study (third year).

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 6 other

**Grade Mode:** Standard Letter

**ARCH 40402 METHODS AND MATERIALS II 3 Credit Hours**

(Slashed with ARCH 50402) Continued investigation of the origins, extraction, properties and processing of the basic materials of construction. Primary focus on concrete and steel-appropriate use and scale, including allied systems and building materials. Introduction to construction contract documents.

**Prerequisite:** ARCH 40401.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**ARCH 40501 ENVIRONMENTAL TECHNOLOGY I 3 Credit Hours**

(Slashed with ARCH 50501) Basic principles of ecological design and architecture environmental systems including lighting, sonic and thermal systems.

**Prerequisite:** PHY 13012; and Architecture major; and approved admission to advanced study (third year); or Interior Design major with special approval.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 4.5 other

**Grade Mode:** Standard Letter

**ARCH 40502 ENVIRONMENTAL TECHNOLOGY II 3 Credit Hours**

(Slashed with ARCH 50502) Ecological design of large buildings. Investigation and analysis of lighting, thermal, water, electrical and waste systems in urban settings.

**Prerequisite:** ARCH 40501.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**ARCH 44611 PORTFOLIO 1 Credit Hour**

Architectural drawings and other allied work of the student reproduced and assembled in a professional portfolio suitable for job and graduate application.

**Prerequisite:** ARCH 40101.

**Schedule Type:** Lecture

**Contact Hours:** 1 lecture

**Grade Mode:** Standard Letter

**ARCH 45210 RENAISSANCE ARCHITECTURE 3 Credit Hours**

(Slashed with ARCH 55210) History and theory of renaissance architecture from 1400 until 1600.

**Prerequisite:** ARCH 10011 and ARCH 10012; or ARCH 10111 and ARCH 20112; or ARTH 22006 and ARCH 22007.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ARCH 45211 BAROQUE ARCHITECTURE 3 Credit Hours**

(Slashed with ARCH 55211) History and theory of architecture in Europe from 1600 through 1750.

**Prerequisite:** ARCH 10011 and ARCH 10012; or ARCH 10111 and ARCH 20112; or ARTH 22006 and ARTH 22007.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ARCH 45213 20TH CENTURY ARCHITECTURAL HISTORY 3 Credit Hours**

(Slashed with ARCH 55213) History and theory of architecture during the 20th century.

**Prerequisite:** ARCH 10011 and ARCH 10012.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ARCH 45220 AMERICAN ARCHITECTURE: COLONIAL TO 1900 3 Credit Hours**

(Slashed with ARCH 55220) History of American architecture for Spanish, French, Dutch and English colonization through the 19th century.

**Prerequisite:** ARCH 10011 and ARCH 10012; or ARCH 10111 and ARCH 20112; or ARTH 22006 and ARTH 22007.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ARCH 45230 FRANK LLOYD WRIGHT 3 Credit Hours**

(Slashed with ARCH 55230) Examination of the life, buildings and literary works of Frank Lloyd Wright with emphasis on his contributions to American art and architecture and his place in American intellectual history.

**Prerequisite:** ARCH 10011 and ARCH 10012.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ARCH 45240 THE SKYSCRAPER 3 Credit Hours**

(Slashed with ARCH 55240) A study of skyscrapers from the standpoint of architectural, financial, structural, psychological and technological considerations. Emphasis is placed on the early developments in Chicago and New York, the influence of the international style and the current trends in ultra-high skyscrapers built outside the United States.

**Prerequisite:** Minimum C grade in ARCH 10111 and ARCH 20112.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ARCH 45241 ARCHITECTURE OF WORLD'S FAIRS 3 Credit Hours**

(Slashed with ARCH 55241) Students investigate world's fairs and related expositions as a cultural phenomenon, an urban design challenge and an opportunity to advance and popularize ideas in architecture and design.

**Prerequisite:** ARCH 10011 and ARCH 10012.

**Schedule Type:** Seminar

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**ARCH 45291 SEMINAR: VARIABLE TOPICS IN ARCHITECTURAL HISTORY 1-3 Credit Hours**

(Repeatable for maximum 3 credit hours)(Slashed with ARCH 55291) Content within architectural history varies per course offering.

**Prerequisite:** Special approval.

**Schedule Type:** Seminar

**Contact Hours:** 1-3 other

**Grade Mode:** Standard Letter

**ARCH 45391 SEMINAR: STRUCTURES III 1-3 Credit Hours**

(Repeatable for credit)(Slashed with ARCH 55391) A continuation of building structures, statics, strength of materials and systems analysis. Emphasis is on complex systems, including horizontal long span and high rise structures. Computer analysis is required.

**Prerequisite:** ARCH 40302.

**Schedule Type:** Seminar

**Contact Hours:** 1-3 other

**Grade Mode:** Standard Letter

**ARCH 45491 SEMINAR: METHODS AND MATERIALS III 1-3 Credit Hours**

(Repeatable for credit)(Slashed with ARCH 55491) Advanced topics in methods and complex materials systems. Computer modeling and field experiences are required.

**Prerequisite:** ARCH 40402.

**Schedule Type:** Seminar

**Contact Hours:** 1-3 other

**Grade Mode:** Standard Letter

**ARCH 45591 SEMINAR: ENVIRONMENTAL TECHNOLOGY III 1-3 Credit Hours**

(Repeatable for credit)(Slashed with ARCH 55591) Variable topics in environmental technology, environmental design and energy conservation, advanced lighting techniques etc.

**Prerequisite:** ARCH 40502.

**Schedule Type:** Seminar

**Contact Hours:** 1-3 other

**Grade Mode:** Standard Letter

**ARCH 45601 ADVANCED COMPUTER APPLICATIONS 1-3 Credit Hours**

(Slashed with ARCH 55601) Course discusses advanced visualization techniques such as raytracing, radiosity and animation. Presents a variety of presentation issues and options.

**Prerequisite:** Approved admission to third year; and special approval.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 1-3 other

**Grade Mode:** Standard Letter

**ARCH 45620 INTRODUCTION TO PRESERVATION 1-3 Credit Hours**

(Repeatable for maximum 3 credit hours)(Slashed with ARCH 55620) An overview of preservation, including building analysis, conservation, adaptive reuse, economic benefits of preservation and preservation planning as a revitalizing strategy.

**Prerequisite:** Special approval.

**Schedule Type:** Lecture

**Contact Hours:** 1-3 lecture

**Grade Mode:** Standard Letter

**ARCH 45621 CURRENT ISSUES IN HISTORIC PRESERVATION 1-3 Credit Hours**

(Repeatable for maximum 3 credit hours)(Slashed with ARCH 55621) Practicing professionals—including architects, planners, developers and government officials—present preservation related work.

**Prerequisite:** Special approval.

**Schedule Type:** Lecture

**Contact Hours:** 1-3 lecture

**Grade Mode:** Standard Letter

**ARCH 45625 EXPLORING HISTORIC STRUCTURES 3 Credit Hours**

(Slashed with ARCH 55625) Course provides students with the skills and opportunity to document an historic structure using methods prescribed by the Historic American Buildings Survey (HABS). Covers recording, documentation and assessment of the historic structure, implementing the guidelines established by the Getty Conservation Institute, including history, purpose, means, methods and field work.

**Prerequisite:** Junior standing and approved admission to advanced study (third year).

**Schedule Type:** Laboratory, Lecture

**Contact Hours:** 1.2 lecture, 3.6 lab

**Grade Mode:** Standard Letter

**ARCH 45627 PRESERVATION TECHNOLOGY 3 Credit Hours**

Slashed with ARCH 55627) Study of historic building materials with an emphasis on causes of degradation, strategies for conservation and standards for restoration.

**Prerequisite:** Junior or senior standing; and Architecture major.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ARCH 45630 INTRODUCTION TO LANDSCAPE ARCHITECTURE 1-3 Credit Hours**

(Repeatable for maximum 3 credit hours)(Slashed with ARCH 55630) Introduction to landscape design with emphasis upon the relationship between landscape and buildings.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 1-3 lecture

**Grade Mode:** Standard Letter

**ARCH 45631 SITE ANALYSIS AND DESIGN 1-3 Credit Hours**

(Repeatable for maximum 3 credit hours)(Slashed with ARCH 55631) Analysis of environmental factors as a basis for site selection and site planning.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 1-3 lecture

**Grade Mode:** Standard Letter

**ARCH 45640 DEVELOPING ENVIRONMENTS FOR OLDER ADULTS 1-3 Credit Hours**

(Repeatable for maximum 3 credit hours)(Slashed with ARCH 55640) Research of existing built environments and an investigation of the planning design process for the elderly.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 1-3 lecture

**Grade Mode:** Standard Letter

**ARCH 45701 URBAN DESIGN STUDIO I 3-6 Credit Hours**

(Repeatable for maximum 6 credit hours) Introduction to urban design and its relationship to other design disciplines through analysis of neighborhoods and definition of comprehensive area improvement programs.

**Prerequisite:** Special approval.

**Schedule Type:** Studio

**Contact Hours:** 3-6 other

**Grade Mode:** Standard Letter

**ARCH 45703 THEORIES AND PRINCIPLES OF URBAN DESIGN 1-3 Credit Hours**

(Repeatable for maximum 3 credit hours) Course on the nature and utility of theory in urban design, examining the relationship between design ideologies and the theories of the environment on which they are based.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 1-3 lecture

**Grade Mode:** Standard Letter

**ARCH 45704 THEORIES AND PRINCIPLES OF URBAN DESIGN II 1-3 Credit Hours**

(Repeatable for maximum 3 credit hours) Focuses on the relationship between design ideologies or theories and the realities of existing spatial relationships or precedents.

**Prerequisite:** Special approval.

**Schedule Type:** Lecture

**Contact Hours:** 1-3 lecture

**Grade Mode:** Standard Letter

**ARCH 45793 WORKSHOP IN URBAN DESIGN AND PLANNING 1-3 Credit Hours**

(Repeatable for maximum 3 credit hours)(Slashed with ARCH 45793)

Course provides an introduction to the scope of planning and design in the making of quality urban neighborhoods, with a particular emphasis on the role of urban design, architecture and landscape design.

**Prerequisite:** None.

**Schedule Type:** Workshop

**Contact Hours:** 1-3 other

**Grade Mode:** Satisfactory/Unsatisfactory



**ARCH 46991 SEMINAR: VARIABLE TOPIC 1-3 Credit Hours**  
(Repeatable for credit)(Slashed with ARCH 56991) Variable topic seminar.  
**Prerequisite:** approved admission to advanced study (third year).

**Schedule Type:** Seminar  
**Contact Hours:** 1-3 other  
**Grade Mode:** Standard Letter

**ARCH 46992 FIELD STUDY (ELR) 1-3 Credit Hours**  
(Repeatable for credit)(Slashed with ARCH 56992) Variable topic field experience.

**Prerequisite:** Approved admission to advanced study (third year).  
**Schedule Type:** Field Experience  
**Contact Hours:** 1-3 other  
**Grade Mode:** Standard Letter  
**Attributes:** Experiential Learning Requirement

**ARCH 46993 WORKSHOP: VARIABLE TOPIC 1-3 Credit Hours**  
(Repeatable for credit)(Slashed with ARCH 56993) Variable topic workshop.

**Prerequisite:** Approved admission to advanced study (third year).  
**Schedule Type:** Workshop  
**Contact Hours:** 1-3 other  
**Grade Mode:** Satisfactory/Unsatisfactory

**ARCH 46995 SPECIAL TOPICS IN ARCHITECTURE 1-3 Credit Hours**  
(Repeatable for credit)(Slashed with ARCH 56995) Special topics in architecture.

**Prerequisite:** Approved admission to advanced study (third year).  
**Schedule Type:** Lecture  
**Contact Hours:** 1-3 lecture  
**Grade Mode:** Standard Letter-IP

**ARCH 46996 INDIVIDUAL INVESTIGATION 1-3 Credit Hours**  
(Repeatable for credit) Student-initiated experience to pursue an area of interest not covered by a regular course offering, with the guidance of a Kent State faculty member.

**Prerequisite:** Special approval.  
**Schedule Type:** Individual Investigation  
**Contact Hours:** 1-3 other  
**Grade Mode:** Standard Letter

**ARCH 50001 SUSTAINABLE DESIGN 1 Credit Hour**  
(Slashed with ARCH 40001) Research component addressing precedents, traditions, current directions in conservation of natural environment. Principles and methods of ecological design in architecture and urban design.

**Prerequisite:** Graduate standing.  
**Schedule Type:** Lecture  
**Contact Hours:** 1 lecture  
**Grade Mode:** Standard Letter

**ARCH 50002 SYSTEMS DESIGN 1 Credit Hour**  
(Slashed with ARCH 40002) Lecture and research component addressing comprehensive integration of mechanical, electrical communications structural life safety systems and sustainable design concerns.

**Prerequisite:** Graduate standing.  
**Schedule Type:** Lecture  
**Contact Hours:** 1 lecture  
**Grade Mode:** Standard Letter

**ARCH 50093 VARIABLE TITLE WORKSHOP IN ARCHITECTURE 1-6 Credit Hours**

(Repeatable for credit) Workshop topic varies per course offering.  
**Prerequisite:** Graduate standing.  
**Schedule Type:** Workshop  
**Contact Hours:** 1-6 other  
**Grade Mode:** Satisfactory/Unsatisfactory

**ARCH 50101 FOURTH-YEAR DESIGN STUDIO I 5 Credit Hours**  
(Slashed with ARCH 40101) Studio investigation of complex formal and spatial constructs addressing the comprehensive concerns of architecture. Special emphasis on understanding the conservation of the natural environment. Knowledge of CAD is required.

**Prerequisite:** ARCH 30102 or ARCH 30112; and Graduate standing.  
**Corequisite:** ARCH 50001.  
**Schedule Type:** Studio  
**Contact Hours:** 5 other  
**Grade Mode:** Standard Letter

**ARCH 50102 INTEGRATED DESIGN STUDIO 5 Credit Hours**  
(Slashed with ARCH 40102) Studio investigation of the comprehensive concerns and understanding of building systems integration. Knowledge of CAD is required.

**Prerequisite:** Graduate standing.  
**Corequisite:** ARCH 50002.  
**Schedule Type:** Studio  
**Contact Hours:** 5 other  
**Grade Mode:** Standard Letter

**ARCH 50301 STRUCTURAL SYSTEMS I 3 Credit Hours**  
(Slashed with ARCH 40301) A continuation of building structures, statics strength of materials and systems analysis. Emphasis is on elastic materials, allowable stresses and design for wood and steel structural members and systems.

**Prerequisite:** ARCH 20301; and Architecture major; and graduate standing.  
**Schedule Type:** Combined Lecture and Lab  
**Contact Hours:** 6 other  
**Grade Mode:** Standard Letter

**ARCH 50302 STRUCTURAL SYSTEMS II 3 Credit Hours**  
(Slashed with ARCH 40302) A continuation of building structures, statics, strength of materials and systems analysis. Emphasis is on inelastic materials, allowable stress, and design for masonry and concrete structural members and systems.

**Prerequisite:** Graduate standing.  
**Schedule Type:** Combined Lecture and Lab  
**Contact Hours:** 3 other  
**Grade Mode:** Standard Letter

**ARCH 50401 METHODS AND MATERIALS I 3 Credit Hours**  
(Slashed with ARCH 40401) Introduction to the origins, extraction, properties and processing of the basic materials of construction. Primary focus on wood and masonry-appropriate use and scale including code requirements, methods of construction and design consequences.

**Prerequisite:** Graduate standing.  
**Schedule Type:** Combined Lecture and Lab  
**Contact Hours:** 6 other  
**Grade Mode:** Standard Letter

**ARCH 50402 METHODS AND MATERIALS II 3 Credit Hours**  
 (Slashed with ARCH 40402) Continued investigation of the origins, extraction, properties and processing of the basic materials of construction. Primary focus on concrete and steel-appropriate use and scale, including allied systems and building materials. Introduction to construction contract documents.  
**Prerequisite:** Graduate standing.  
**Schedule Type:** Combined Lecture and Lab  
**Contact Hours:** 3 other  
**Grade Mode:** Standard Letter

**ARCH 50501 ENVIRONMENTAL TECHNOLOGY I 3 Credit Hours**  
 (Slashed with ARCH 40501) Basic principles of ecological design and architecture environmental systems including lighting, sonic and thermal systems.  
**Prerequisite:** PHY 13012; and Architecture major; and approved admission to advanced study (third year); and graduate standing.  
**Schedule Type:** Combined Lecture and Lab  
**Contact Hours:** 4.5 other  
**Grade Mode:** Standard Letter

**ARCH 50502 ENVIRONMENTAL TECHNOLOGY II 3 Credit Hours**  
 (Slashed with ARCH 40502) Ecological design of large buildings. Investigation and analysis of lighting, thermal, water, electrical and waste systems in urban settings.  
**Prerequisite:** Graduate standing.  
**Schedule Type:** Combined Lecture and Lab  
**Contact Hours:** 3 other  
**Grade Mode:** Standard Letter

**ARCH 55101 FIFTH-YEAR DESIGN STUDIO I 6 Credit Hours**  
 Students investigate a new scale of environmental issues that integrate both architectural and urban planning. Included are site visits, data collection, design of a master plan and an architectural form response to a segment of the total conceptual plan.  
**Prerequisite:** Graduate standing.  
**Schedule Type:** Studio  
**Contact Hours:** 6 other  
**Grade Mode:** Standard Letter

**ARCH 55102 FIFTH-YEAR DESIGN STUDIO II 3-6 Credit Hours**  
 (Repeatable for maximum 6 credit hours) Advanced design studio emphasizing comprehensive and independent investigation. Explores and manifests ideas through architecture using competition and hypothetical or real projects as vehicles of expression.  
**Prerequisite:** Graduate standing.  
**Schedule Type:** Studio  
**Contact Hours:** 3-6 other  
**Grade Mode:** Standard Letter

**ARCH 55210 RENAISSANCE ARCHITECTURE 3 Credit Hours**  
 (Slashed with ARCH 45210) History and theory of Renaissance architecture from 1400 until 1600.  
**Prerequisite:** Graduate standing.  
**Schedule Type:** Lecture  
**Contact Hours:** 3 lecture  
**Grade Mode:** Standard Letter

**ARCH 55211 BAROQUE ARCHITECTURE 3 Credit Hours**  
 (Slashed with ARCH 45211) History and theory of architecture in Europe from 1600 through 1750.  
**Prerequisite:** Graduate standing.  
**Schedule Type:** Lecture  
**Contact Hours:** 3 lecture  
**Grade Mode:** Standard Letter

**ARCH 55213 20TH CENTURY ARCHITECTURAL HISTORY 3 Credit Hours**  
 (Slashed with ARCH 45213) History and theory of architecture during the 20th century.  
**Prerequisite:** Graduate standing.  
**Schedule Type:** Lecture  
**Contact Hours:** 3 lecture  
**Grade Mode:** Standard Letter

**ARCH 55220 AMERICAN ARCHITECTURE: COLONIAL TO 1900 3 Credit Hours**  
 (Slashed with ARCH 45220) History of American architecture for Spanish, French, Dutch and English colonization through the 19th century.  
**Prerequisite:** Graduate standing.  
**Schedule Type:** Lecture  
**Contact Hours:** 3 lecture  
**Grade Mode:** Standard Letter

**ARCH 55230 FRANK LLOYD WRIGHT 3 Credit Hours**  
 (Slashed with ARCH 45230) Examination of the life, buildings and literary works of Frank Lloyd Wright with emphasis on his contributions to American art and architecture and his place in American intellectual history.  
**Prerequisite:** Graduate standing.  
**Schedule Type:** Lecture  
**Contact Hours:** 3 lecture  
**Grade Mode:** Standard Letter

**ARCH 55240 THE SKYSCRAPER 3 Credit Hours**  
 (Slashed with ARCH 45240) A study of skyscrapers from the standpoint of architectural, financial, structural, psychological and technological considerations. Emphasis is placed on the early developments in Chicago and New York, the influence of the international style and the current trends in ultra-high skyscrapers built outside the United States.  
**Prerequisite:** Minimum C grade in ARCH 10111 and ARCH 20112; and graduate standing.  
**Schedule Type:** Lecture  
**Contact Hours:** 3 lecture  
**Grade Mode:** Standard Letter

**ARCH 55241 ARCHITECTURE OF WORLD'S FAIRS 3 Credit Hours**  
 (Slashed with ARCH 45241) Students investigate world's fairs and related expositions as a cultural phenomenon, an urban design challenge and an opportunity to advance and popularize ideas in architecture and design.  
**Prerequisite:** Graduate standing.  
**Schedule Type:** Seminar  
**Contact Hours:** 3 lecture  
**Grade Mode:** Standard Letter

**ARCH 55291 SEMINAR: VARIABLE TOPICS IN ARCHITECTURAL HISTORY 1-3 Credit Hours**  
 (Repeatable for maximum 3 credit hours)(Slashed with ARCH 45291) Content within architectural history varies per course offering.  
**Prerequisite:** Graduate standing and special approval.  
**Schedule Type:** Seminar  
**Contact Hours:** 1-3 other  
**Grade Mode:** Standard Letter

**ARCH 55391 SEMINAR: STRUCTURES III 1-3 Credit Hours**  
 (Repeatable for credit)(Slashed with ARCH 45391) A continuation of building structures, statics, strength of materials and systems analysis. Emphasis is on complex systems, including horizontal long span and high rise structures. Computer analysis is required.  
**Prerequisite:** Graduate standing.  
**Schedule Type:** Seminar  
**Contact Hours:** 1-3 other  
**Grade Mode:** Standard Letter

**ARCH 55491 SEMINAR: METHODS AND MATERIALS III 1-3 Credit Hours**  
 (Repeatable for credit)(Slashed with ARCH 45491) Advanced topics in methods and complex materials systems. Computer modeling and field experiences are required.  
**Prerequisite:** Graduate standing.  
**Schedule Type:** Seminar  
**Contact Hours:** 1-3 other  
**Grade Mode:** Standard Letter

**ARCH 55591 SEMINAR: ENVIRONMENTAL TECHNOLOGY III 1-3 Credit Hours**  
 (Repeatable for maximum 3 credit hours)(Slashed with ARCH 45591) Variable topics in environmental technology, environmental design and energy conservation, advanced lighting techniques, etc.  
**Prerequisite:** Graduate standing.  
**Schedule Type:** Seminar  
**Contact Hours:** 1-3 other  
**Grade Mode:** Standard Letter

**ARCH 55601 ADVANCED COMPUTER APPLICATIONS 1-3 Credit Hours**  
 (Repeatable for maximum 3 credit hours)(Slashed with ARCH 45601) Course discusses advanced visualization techniques such as raytracing, radiosity and animation. Presents a variety of presentation issues and options.  
**Prerequisite:** Graduate standing.  
**Schedule Type:** Combined Lecture and Lab  
**Contact Hours:** 1-3 other  
**Grade Mode:** Standard Letter

**ARCH 55620 INTRODUCTION TO PRESERVATION 1-3 Credit Hours**  
 (Repeatable for maximum 3 credit hours)(Slashed with ARCH 45620) An overview of preservation, including building analysis, conservation, adaptive reuse, economic benefits of preservation and preservation planning as a revitalizing strategy.  
**Prerequisite:** Graduate standing and special approval.  
**Schedule Type:** Lecture  
**Contact Hours:** 1-3 lecture  
**Grade Mode:** Standard Letter

**ARCH 55621 CURRENT ISSUES IN HISTORIC PRESERVATION 1-3 Credit Hours**  
 (Repeatable for maximum 3 credit hours)(Slashed with ARCH 45621) Practicing professionals—including architects, planners, developers and government officials—present preservation related work.  
**Prerequisite:** Graduate standing and special approval.  
**Schedule Type:** Lecture  
**Contact Hours:** 1-3 lecture  
**Grade Mode:** Standard Letter

**ARCH 55625 EXPLORING HISTORIC STRUCTURES 3 Credit Hours**  
 (Slashed with ARCH 45625) Course provides students with the skills and opportunity to document an historic structure using methods prescribed by the Historic American Buildings Survey (HABS). Covers recording, documentation and assessment of the historic structure, implementing the guidelines established by the Getty Conservation Institute, including history, purpose, means, methods and field work.  
**Prerequisite:** Major in the College of Architecture and Environmental Design; and graduate standing.

**Schedule Type:** Laboratory, Lecture  
**Contact Hours:** 1.2 lecture, 3.6 lab  
**Grade Mode:** Standard Letter

**ARCH 55627 PRESERVATION TECHNOLOGY 3 Credit Hours**  
 (Slashed with ARCH 45627) Study of historic building materials with an emphasis on causes of degradation, strategies for conservation and standards for restoration.  
**Prerequisite:** Minimum C grade in ARCH 40401 and ARCH 40402; and graduate standing.

**Schedule Type:** Lecture  
**Contact Hours:** 3 lecture  
**Grade Mode:** Standard Letter

**ARCH 55630 INTRODUCTION TO LANDSCAPE ARCHITECTURE 1-3 Credit Hours**  
 (Repeatable for maximum 3 credit hours)(Slashed with ARCH 45630) Introduction to landscape design with emphasis upon the relationship between landscape and buildings.  
**Prerequisite:** Graduate standing.  
**Schedule Type:** Lecture  
**Contact Hours:** 1-3 lecture  
**Grade Mode:** Standard Letter

**ARCH 55631 SITE ANALYSIS AND DESIGN 1-3 Credit Hours**  
 (Repeatable for maximum 3 credit hours)(Slashed with ARCH 45631) Analysis of environmental factors as a basis for site selection and site planning.  
**Prerequisite:** Graduate standing.  
**Schedule Type:** Lecture  
**Contact Hours:** 1-3 lecture  
**Grade Mode:** Standard Letter

**ARCH 55640 DEVELOPING ENVIRONMENTS FOR OLDER ADULTS 1-3 Credit Hours**  
 (Repeatable for maximum 3 credit hours)(Slashed with ARCH 45640) Research of existing built environments and an investigation of the planning design process for the elderly.  
**Prerequisite:** Graduate standing.  
**Schedule Type:** Lecture  
**Contact Hours:** 1-3 lecture  
**Grade Mode:** Standard Letter

**ARCH 55707 REPRESENTATION IN DESIGN 1-3 Credit Hours**  
 (Repeatable for maximum 3 credit hours) Course on the nature of communication in design and the representational tools the designer uses to give form to abstract ideas and converse with clients and colleagues.  
**Prerequisite:** Graduate standing.  
**Schedule Type:** Lecture  
**Contact Hours:** 1-3 lecture  
**Grade Mode:** Standard Letter

**ARCH 55793 WORKSHOP IN URBAN DESIGN AND PLANNING 1-3 Credit Hours**

(Repeatable for maximum 3 credit hours)(Slashed with ARCH 45793)  
Course provides an introduction to the scope of planning and design in the making of quality urban neighborhoods, with a particular emphasis on the role of urban design, architecture and landscape design.

**Prerequisite:** Graduate standing.

**Schedule Type:** Workshop

**Contact Hours:** 1-3 other

**Grade Mode:** Satisfactory/Unsatisfactory

**ARCH 56991 SEMINAR: VARIABLE TOPIC 1-3 Credit Hours**

(Repeatable for maximum 3 credit hours)(Slashed with ARCH 46991)  
Variable topic seminar.

**Prerequisite:** Graduate standing and special approval.

**Schedule Type:** Seminar

**Contact Hours:** 1-3 other

**Grade Mode:** Standard Letter

**ARCH 56992 FIELD STUDY 1-3 Credit Hours**

(Repeatable for maximum 3 credit hours)(Slashed with ARCH 46992)  
Field experience.

**Prerequisite:** Graduate standing and special approval.

**Schedule Type:** Field Experience

**Contact Hours:** 1-3 other

**Grade Mode:** Standard Letter

**ARCH 56993 WORKSHOP: VARIABLE TOPIC 1-3 Credit Hours**

(Repeatable for credit)(Slashed with ARCH 46993) Field experience.

**Prerequisite:** Graduate standing.

**Schedule Type:** Workshop

**Contact Hours:** 1-3 other

**Grade Mode:** Satisfactory/Unsatisfactory

**ARCH 56995 SPECIAL TOPICS IN ARCHITECTURE 1-3 Credit Hours**

(Repeatable for credit)(Slashed with ARCH 46995) Special topics in architecture.

**Prerequisite:** Graduate standing and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 1-3 lecture

**Grade Mode:** Standard Letter-IP

**ARCH 60101 GRADUATE DESIGN STUDIO I 3-6 Credit Hours**

Architectural studies related to buildings. Emphasis on spatial, aesthetic, environmental and functional factors in design.

**Prerequisite:** Graduate standing.

**Schedule Type:** Studio

**Contact Hours:** 3-6 other

**Grade Mode:** Standard Letter

**ARCH 60102 GRADUATE DESIGN STUDIO II 3-6 Credit Hours**

Independent design project, completed under the direction of an individual adviser selected from the graduate faculty.

**Prerequisite:** ARCH 60101 and ARCH 60301; and graduate standing.

**Corequisite:** ARCH 60922.

**Schedule Type:** Studio

**Contact Hours:** 3-6 other

**Grade Mode:** Standard Letter

**ARCH 60103 GRADUATE DESIGN STUDIO III 6-9 Credit Hours**

Capstone studio (or master's project) aimed at further investigating building design issues both at a greater depth of complexity and by focusing on particular design aspects or areas of concentration.

**Prerequisite:** ARCH 60102 and ARCH 60150 and ARCH 60922; and graduate standing.

**Schedule Type:** Studio

**Contact Hours:** 6-9 other

**Grade Mode:** Standard Letter-IP

**ARCH 60111 GRADUATE DESIGN FOUNDATIONS STUDIO 3-6 Credit Hours**

Graduate-level introduction to the organizational principles and tools designers use to interpret and shape the built environment.

**Prerequisite:** Graduate Standing.

**Schedule Type:** Studio

**Contact Hours:** 3-6 other

**Grade Mode:** Standard Letter

**ARCH 60112 GRADUATE DESIGN ARCHITECTURE STUDIO 3-6 Credit Hours**

The introduction of a building design process that emphasizes the integration of program requirements with specific form typologies using architectural elements as the primary components to design shape, space, and form.

**Prerequisite:** Graduate Standing.

**Schedule Type:** Studio

**Contact Hours:** 3-6 other

**Grade Mode:** Standard Letter

**ARCH 60113 GRADUATE DESIGN CONTEXT STUDIO 3-6 Credit Hours**

Studio investigation that includes consideration of program, site, context, materiality and tectonics. Specific emphasis on understanding the influences of site, context and urban design, including the role of social and cultural influences on the built environment.

**Prerequisite:** Graduate standing.

**Schedule Type:** Studio

**Contact Hours:** 3-6 other

**Grade Mode:** Standard Letter

**ARCH 60114 GRADUATE DESIGN SYSTEMS STUDIO 3-6 Credit Hours**

Studio investigation of comprehensive design concerns, including the integration of building systems and implementation of sustainable strategies.

**Prerequisite:** Graduate standing.

**Schedule Type:** Studio

**Contact Hours:** 3-6 other

**Grade Mode:** Standard Letter

**ARCH 60150 PROJECT PROGRAMMING 2-3 Credit Hours**

Study and discussion of the notion of program in architecture and the principles of project programming. Case study analysis and preparation of a comprehensive program for an architectural project.

**Prerequisite:** ARCH 60101 and ARCH 60301; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 2-3 lecture

**Grade Mode:** Standard Letter

**ARCH 60211 GRADUATE GLOBAL HISTORY OF ARCHITECTURE I 3 Credit Hours**

Global history of architecture from Neolithic times through the 16th Century.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ARCH 60212 GRADUATE GLOBAL HISTORY OF ARCHITECTURE II 3 Credit Hours**

Global history of architecture from the 17th century to the early 21st century.

**Prerequisite:** ARCH 60211; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ARCH 60301 THEORIES OF ARCHITECTURE 1-3 Credit Hours**

(Repeatable for maximum 3 credit hours) In-depth analysis and discussion of contemporary architectural theories. Critical evaluation of major authors and architectural projects.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 1-3 lecture

**Grade Mode:** Standard Letter

**ARCH 60601 TOOLS OF REPRESENTATION 3 Credit Hours**

Introduction to the software used in the digital environment for modeling and representing architectural schemes. Course covers software interface, x,y,z coordinates and navigation, Nurbs modeling and mesh modeling. Enables students to design in three-dimension and represent massing studies, building details and develop architectural elements and site context.

**Prerequisite:** Graduate standing.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**ARCH 60602 TOOLS OF FABRICATION 3 Credit Hours**

Course covers advanced three-dimensional modeling tools and the different methods for outputting digital models into the physical environment. Includes three-dimension printing, laser cutting, CNC milling and vacuum forming.

**Prerequisite:** Graduate standing.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**ARCH 60603 TOOLS OF SIMULATION 3 Credit Hours**

Course covers two-dimensional and three-dimensional simulation platforms and the theory behind the tools to generate and simulate architectural ideas and environments. Animation techniques and robotic integration operate as the bridge between the digital and the physical environment.

**Prerequisite:** Graduate standing.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**ARCH 60604 TOOLS OF CODING 3 Credit Hours**

Course covers visual parametric software and coding languages to generate and develop architectural ideas. Integrates the tools and theory of coding and parametric software and their evolution in the architecture field.

**Prerequisite:** Graduate standing.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**ARCH 60922 METHODS OF INQUIRY IN ARCHITECTURAL STUDIES 2 Credit Hours**

(Cross-listed with AED 60922 and LARC 60922) Provides a comprehensive coverage of architectural inquiry techniques, including qualitative and quantitative research methods and critical-thinking skills to help students better conduct and understand research.

**Prerequisite:** ARCH 60101 and ARCH 60301; and graduate standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**ARCH 65001 PROFESSIONAL PRACTICE: REAL ESTATE AND DEVELOPMENT 2-4 Credit Hours**

Introduction to the economic, social, ethical and legal impact on/ of development projects in both the public and the private sectors. Computer applications and case-studies analysis are required.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 2-4 lecture

**Grade Mode:** Standard Letter

**ARCH 65002 PROFESSIONAL PRACTICE: CONTRACT AND PLANNING LAW 2 Credit Hours**

Course surveys laws relating to the practice of architecture and to dispute resolution, with emphasis on contract laws contrasted with laws of negligence and the standard of care in the profession. The planning law component surveys land use control mechanisms as seen through zoning, variances and practical applications.

**Prerequisite:** Architecture major and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**ARCH 65003 PROFESSIONAL PRACTICE: LEADERSHIP, ETHICS AND OFFICE MANAGEMENT 2-3 Credit Hours**

Course discusses issues of professional leadership and examines architectural office structures. Management approaches, professional registration and practice, use of consulting engineers and financial management of an office in the context of the profession as business.

**Prerequisite:** ARCH 65002; and Architecture major; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 2-3 lecture

**Grade Mode:** Standard Letter

**ARCH 66199 THESIS I 2-6 Credit Hours**

(Repeatable for credit) Thesis students must register for a total of 6 hours.

**Prerequisite:** Graduate standing.

**Schedule Type:** Masters Thesis

**Contact Hours:** 2-6 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP



**ARCH 66299 THESIS II 2 Credit Hours**

(Repeatable for credit) Following completion of 6 credit hours of Thesis I all graduate students must continuously register for Thesis II for all subsequent academic terms (including summer) until all degree requirements are met.

**Prerequisite:** 6 credit hours of ARCH 66199; graduate standing.

**Schedule Type:** Masters Thesis

**Contact Hours:** 2 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**ARCH 66892 PRACTICUM 1-3 Credit Hours**

(Repeatable for credit) Practicum in the field.

**Prerequisite:** Special approval.

**Schedule Type:** Practical Experience

**Contact Hours:** 1-3 other

**Grade Mode:** Standard Letter

**ARCH 66991 SEMINAR: VARIABLE TOPIC 1-4 Credit Hours**

(Repeatable for credit) Seminar on a variable topic per course offering.

**Prerequisite:** Graduate standing.

**Schedule Type:** Seminar

**Contact Hours:** 1-4 other

**Grade Mode:** Standard Letter

**ARCH 66992 FIELD STUDY 1-3 Credit Hours**

(Repeatable for credit) Field study in architecture.

**Prerequisite:** Graduate standing.

**Schedule Type:** Field Experience

**Contact Hours:** 1-3 other

**Grade Mode:** Standard Letter-IP

**ARCH 66993 WORKSHOP: VARIABLE TOPIC 1-3 Credit Hours**

(Repeatable for credit) Variable topic workshop in architecture.

**Prerequisite:** Graduate standing.

**Schedule Type:** Workshop

**Contact Hours:** 1-3 other

**Grade Mode:** Satisfactory/Unsatisfactory

**ARCH 66995 SPECIAL TOPICS IN ARCHITECTURE 1-4 Credit Hours**

(Repeatable for credit) Special topics in architecture.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 1-4 lecture

**Grade Mode:** Standard Letter

**ARCH 66996 INDIVIDUAL INVESTIGATION 1-3 Credit Hours**

(Repeatable for credit) Individual investigation in architecture.

**Prerequisite:** Graduate standing.

**Schedule Type:** Individual Investigation

**Contact Hours:** 1-3 other

**Grade Mode:** Standard Letter-IP

**ARCH 66998 RESEARCH 2-6 Credit Hours**

(Repeatable for credit) Research in architecture.

**Prerequisite:** Graduate standing.

**Schedule Type:** Research

**Contact Hours:** 2-6 other

**Grade Mode:** Standard Letter

**ARCH 67510 SUSTAINABLE BUILDING CONSTRUCTION I 3 Credit Hours**

First course of a two-course sequence. Provides an in-depth survey of design, pre- and post-construction activities pertinent to green building and sustainable design of the built environment. Reviews fundamental concepts and principles of sustainable building design and construction with special emphasis on construction site issues. Provides a comprehensive review of impact of site on construction and building design on the site and its resources. Focus is on understanding the role building design and construction play on resources efficiency and minimizing the impact of construction activities on the environment.

**Prerequisite:** ENGR 67000; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ARCH 67511 SUSTAINABLE BUILDING CONSTRUCTION II 3 Credit Hours**

Second course of a two-course sequence. Provides an in-depth survey of design, pre- and post-construction activities pertinent to green building and sustainable design of the built environment. Reviews fundamental concepts and principles of sustainable building design and construction with special emphasis on building systems. Provides a comprehensive review of impact of building component, materials and systems on design and construction of High-performance buildings. Focus is on understanding the role building design and construction play on resources efficiency and minimizing the impact of construction activities on the environment.

**Prerequisite:** ARCH 67510; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

## Architecture and Environmental Design (AED)

**AED 10001 DESIGN THINKING I 2 Credit Hours**

Provides a broad, interdisciplinary introduction to design culture and the visualization of ideas and information through observations of the object in space.

**Prerequisite:** Architecture, Architectural Studies or Interior Design major.

**Corequisite:** AED 10101.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**AED 10002 DESIGN THINKING II 2 Credit Hours**

Explores the role of design in society with a focus on purpose and meaning of form and space in relation to the human body.

**Prerequisite:** AED 10001; and Architecture, Interior Design, or Architectural Studies major.

**Corequisite:** AED 10102.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**AED 10101 DESIGN FOUNDATIONS STUDIO I 3 Credit Hours**

Introduction to the organizational principles and tools designers use to interpret and shape the built environment.

**Prerequisite:** Architecture, Architectural studies or Interior Design major.

**Corequisite:** AED 10001.

**Schedule Type:** Studio

**Contact Hours:** 6 other

**Grade Mode:** Standard Letter

**AED 10102 DESIGN FOUNDATIONS STUDIO II 3 Credit Hours**

A continued exploration of the organizational principles and tools designers use to interpret and shape the built environment.

**Prerequisite:** AED 10101; and Architecture, Interior Design or Architectural Studies major.

**Schedule Type:** Studio

**Contact Hours:** 6 other

**Grade Mode:** Standard Letter

**AED 60922 METHODS OF INQUIRY IN ARCHITECTURAL STUDIES 2 Credit Hours**

(Cross-listed with ARCH 60922 and LARC 60922) Provides a comprehensive coverage of architectural inquiry techniques, including qualitative and quantitative research methods and critical-thinking skills to help students better conduct and understand research.

**Prerequisite:** Graduate standing.

**Corequisite:** AED 60923.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**AED 60923 EMPIRICAL RESEARCH IN ENVIRONMENTAL DESIGN 1 Credit Hour**

(Cross-listed with LARC 60923) Introduces a student to faculty-directed research in a field with the environmental design domain. Typically, the course will include lectures by research faculty, readings from primary and review literature, and regular discussions among students, faculty and other research associates working under the direction of a principal investigator.

**Prerequisite:** Graduate standing; and special approval.

**Corequisite:** AED 60922.

**Schedule Type:** Lecture

**Contact Hours:** 1 lecture

**Grade Mode:** Standard Letter

**AED 60930 APPLIED RESEARCH METHODS IN ARCHITECTURE AND ENVIRONMENTAL DESIGN 3 Credit Hours**

Addresses ontological and epistemological underpinnings of applied research methods in the environmental design fields. It is intended to extend students' understanding of quantitative and qualitative research methods, data collection, analysis and interpretation.

**Prerequisite:** Minimum B- grade in the following courses AED 60922 and 60923; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**AED 66099 THESIS PREPARATION SEMINAR 2 Credit Hours**

Designed for students writing a thesis in the Master of Science in Architecture and Environmental Design Program. Supports students development of research topics, review relevant research and scholarship, frame research questions and arguments, choose an appropriate methodology for analysis, and draft introductory and methodology sections of the thesis proposal document.

**Prerequisite:** AED 60922 and 60923 and 60930; and ARCH 60301; and graduate standing; and special approval.

**Schedule Type:** Seminar

**Contact Hours:** 2 other

**Grade Mode:** Standard Letter

**AED 66199 THESIS I 6 Credit Hours**

Thesis students must register for a total of 6 hours.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Masters Thesis

**Contact Hours:** 6 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**AED 66299 THESIS II 2 Credit Hours**

Following completion of 6 credit hours of Thesis I all graduate students must continuously register for Thesis II for all subsequent academic terms (including summer) until all degree requirements are met.

**Prerequisite:** 6 credit hours of AED 66199; and graduate standing; and special approval.

**Schedule Type:** Masters Thesis

**Contact Hours:** 2 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

## Art (ART)

**ART 10022 2D COMPOSITION 3 Credit Hours**

This course is a basic introduction to flat pictorial composition. Students will explore the basic principles of design and the application of elements (line, shape, value, texture, and color) to the two-dimensional surface.

Students will learn to work with traditional materials as well as new technology. In addition to developing technical proficiency with a variety of materials and tools, emphasis will be placed on visual literacy and critical thinking skills throughout this course. All work (preliminary and final) must be retained for the duration of the semester and beyond as required.

**Prerequisite:** None.

**Schedule Type:** Studio

**Contact Hours:** 6 other

**Grade Mode:** Standard Letter

**ART 10023 3D COMPOSITION 3 Credit Hours**

Course serves as the introductory three-dimensional experience, focusing on fundamental principles, elements and strategies of visual organization. Focus is on creative problem-solving using a variety of approaches and materials, and favors non-equipment intensive assignments. Students develop critical thinking and practical skills relating to three-dimensional form and space. This foundation-level course prepares students for subsequent study within all the visual arts.

**Prerequisite:** None.

**Schedule Type:** Studio

**Contact Hours:** 6 other

**Grade Mode:** Standard Letter

**ART 10024 DIGITAL MEDIA 3 Credit Hours**

Introduces concepts, tools, software and guided experiences necessary for creative integration of digital skills and concepts into art practices and art research.

**Prerequisite:** Major in Art Education or Art History or Studio Art; and freshman or sophomore standing.

**Schedule Type:** Studio

**Contact Hours:** 6 other

**Grade Mode:** Standard Letter

**ART 30001 COMMON REVIEW 1 Credit Hour**

It provides an introduction to professional visual arts practices as well as a candid assessment of a student's emerging strengths. This formative review of digital portfolios, physical art work, and student writing by a panel of School of Art faculty members is intended to assist students in deciding on concentration(s) and degree program prior to enrollment in upper-division courses. Before enrolling in this course, students should have completed the prerequisites below, as well as any two of the following: ARTS 14060, ARTS 24002, ARTS 24010, ARTS 24040, ARTS 24051, ARTS 24061, ARTS 25300, ARTS 25400, ARTS 25600, ARTS 25700 (another two of these may be taken concurrently in the semester in which registering for this course).

**Prerequisite:** ART 10022, ART 10023, ART 10024, ARTS 14000, ARTS 14001 and ARTH 22007; and special approval.

**Schedule Type:** Studio

**Contact Hours:** 2 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**ART 30692 EXPERIENTIAL LEARNING IN THE VISUAL ARTS (ELR) 1-3 Credit Hours**

(Repeatable for maximum 6 credit hours) An undergraduate, experience-based learning activity carried out in a visual arts setting. Emphasis is on the goals of connecting ideas, concepts and skills developed in coursework to applications in new or different contexts, demonstrating how this experience has broadened students' understanding of their discipline, and reflection on significance of the experience. Learning contract required.

**Prerequisite:** A major in the School of Art; junior or senior standing; and special approval of faculty sponsor.

**Schedule Type:** Field Experience

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**Attributes:** Experiential Learning Requirement

**ART 40007 ARTS ENGAGEMENT: INTERPRETING FOR A COMMUNITY (WIC) 3 Credit Hours**

Development of a reflective and mindful approach to understanding and supporting the arts through articulating and communicating the experiences and meanings people construct from engaging with the arts.

**Prerequisite:** Major in the College of the Arts; and senior standing.

**Schedule Type:** Seminar

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Writing Intensive Course

**ART 40008 PROFESSIONAL PRACTICES IN VISUAL ARTS (WIC) 3 Credit Hours**

Introduction to the concerns and practices of the professional artist/craftsperson.

**Prerequisite:** Major in Studio Art; and senior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Writing Intensive Course

**ART 40092 FIELD EXPERIENCE TRAVEL STUDY IN ART (ELR) 1-3 Credit Hours**

(Repeatable for maximum 6 credit hours) Travel-based field experience in the visual arts at site(s) away from the university. Involves two or more visual arts disciplines and direct observation of works and experience of culture in context. May involve research, creative activity, presentation and-or written reflection as appropriate to site and goals of course.

**Prerequisite:** None.

**Schedule Type:** Field Experience

**Contact Hours:** 1-3 lecture

**Grade Mode:** Satisfactory/Unsatisfactory

**Attributes:** Experiential Learning Requirement

**ART 41093 VARIABLE TITLE WORKSHOP IN ART 1-6 Credit Hours**

(Repeatable for a total of 18 credit hours) (Cross-listed with ART 51093) Topics varies per course offering.

**Prerequisite:** Special approval.

**Schedule Type:** Workshop

**Contact Hours:** 1-6 other

**Grade Mode:** Satisfactory/Unsatisfactory

**ART 50092 FIELD EXPERIENCE TRAVEL STUDY IN ART 1-3 Credit Hours**

(Repeatable for maximum 6 credit hours) (Cross-listed with ART 40092) Travel-based field experience in the visual arts at site(s) away from the university. Involves two or more visual arts disciplines and direct observation of works and experience of culture in context. May involve research, creative activity, presentation and-or written reflection as appropriate to site and goals of course.

**Prerequisite:** Major in Art Education, Art History or Studio Art; and Graduate standing.

**Schedule Type:** Field Experience

**Contact Hours:** 1-3 lecture

**Grade Mode:** Standard Letter

**ART 51093 VARIABLE TITLE WORKSHOP IN ART 1-6 Credit Hours**

(Repeatable for credit) (Cross-listed with ART 41093) Topics vary per course offering.

**Prerequisite:** Graduate standing.

**Schedule Type:** Workshop

**Contact Hours:** 1-6 other

**Grade Mode:** Satisfactory/Unsatisfactory

**ART 67199 M.A.THESIS I 2-6 Credit Hours**

Thesis students must register for a minimum of 6 hours, 2 to 6 hours in a single semester distributed over several semesters if desired.

**Prerequisite:** Graduate standing.

**Schedule Type:** Masters Thesis

**Contact Hours:** 2-6 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**ART 67299 M.A.THESIS II 2 Credit Hours**

(Repeatable for credit) Thesis students must continue registration each semester until all degree requirements are met.

**Prerequisite:** ART 67199; and graduate standing.

**Schedule Type:** Masters Thesis

**Contact Hours:** 2 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**ART 69199 M.F.A. THESIS I 2-6 Credit Hours**

Thesis students must register for a total of 6 credit hours, 2 to 6 credit hours in a single semester distributed over several semesters if desired.

**Prerequisite:** Graduate standing.

**Schedule Type:** Masters Thesis

**Contact Hours:** 2-6 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**ART 69299 M.F.A. THESIS II 2 Credit Hours**

Thesis students must continue registration each semester until all degree requirements are met.

**Prerequisite:** ART 69199; and graduate standing.

**Schedule Type:** Masters Thesis

**Contact Hours:** 2 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

## Art Education (ARTE)

**ARTE 31001 ART EDUCATION: FOUNDATIONS AND CONCEPTS ELEMENTARY 3 Credit Hours**

An introduction to art education concepts. Emphasis on child development and on teaching the expressive and responsive dimensions of art in the early grades. Eleven field clinical hours are associated with this course.

**Prerequisite:** Minimum 2.500 overall GPA; major in Art Education; and sophomore standing.

**Schedule Type:** Studio

**Contact Hours:** 6 other

**Grade Mode:** Standard Letter

**ARTE 31005 SPECIAL TOPICS: ART EDUCATION- 2-4 Credit Hours**

(Repeatable for credit) Content varies per course offering.

**Prerequisite:** Special approval.

**Schedule Type:** Lecture

**Contact Hours:** 2-4 lecture

**Grade Mode:** Standard Letter-IP

**ARTE 31092 ART EDUCATION :TEACHING PRACTICUM (ELR) 3 Credit Hours**

A teaching experience for applying art education concepts. Analysis of instructional problems emphasized. Fifty-four field and/or clinical hours are associated with this course.

**Prerequisite:** ARTE 31001; and minimum 2.500 overall GPA.

**Schedule Type:** Lecture, Practical Experience

**Contact Hours:** 2 lecture, 3 other

**Grade Mode:** Standard Letter

**Attributes:** Experiential Learning Requirement

**ARTE 31096 INDIVIDUAL STUDY ART EDUCATION 2-10 Credit Hours**

(Repeatable for credit) Additional study in areas of a student's choice in consultation with adviser.

**Prerequisite:** Special approval.

**Schedule Type:** Individual Investigation

**Contact Hours:** 2-10 other

**Grade Mode:** Standard Letter-IP

**ARTE 41002 ART EDUCATION: FOUNDATIONS AND CONCEPTS - SECONDARY (ELR) 3 Credit Hours**

An examination of relationships between content, materials and strategies for teaching art to students in grades 7-12 and students with special needs. Nine field and/or clinical hours are associated with this course.

**Prerequisite:** ARTE 31004; and minimum 2.500 overall GPA.

**Schedule Type:** Practical Experience, Studio

**Contact Hours:** 7 other

**Grade Mode:** Standard Letter

**Attributes:** Experiential Learning Requirement

**ARTE 41004 PRE-KINDERGARTEN-12 DESIGN EDUCATION 3 Credit Hours**

(Slashed with ARTE 51004) Students develop lessons that address environment design, communication design, product design and interactive design, as well as conduct research methods and use materials that are appropriate for students in elementary and secondary schools. Students learn the design process and design thinking, adapted specifically for the context of PreK-12 education. Assignments are created around design issues that integrate with other subject areas, have relevance to young students' lives and connect to the national and Ohio content standards.

**Prerequisite:** None.

**Schedule Type:** Studio

**Contact Hours:** 6 other

**Grade Mode:** Standard Letter

**ARTE 41009 ART EDUCATION MAJOR REVIEW 1 Credit Hour**

Examination of student's knowledge, proficiency and ability to apply concepts in art and art education.

**Prerequisite:** Minimum 2.500 overall GPA.

**Pre/corequisite:** ARTE 41002 and ARTE 41192.

**Schedule Type:** Studio

**Contact Hours:** 3 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**ARTE 41092 FIELD EXPERIENCE:TRAVEL STUDY IN ART EDUCATION (ELR) 1-3 Credit Hours**

(Repeatable for credit) (Cross-listed with ARTE 51092) Travel-based study/field experience in art education at a site or sites away from Kent State University.

**Prerequisite:** Major in Art Education.

**Schedule Type:** Field Experience

**Contact Hours:** 1-3 other

**Grade Mode:** Satisfactory/Unsatisfactory

**Attributes:** Experiential Learning Requirement

**ARTE 41095 SPECIAL TOPICS IN ART EDUCATION 1-3 Credit Hours**

(Slashed with ARTE 51095) (Repeatable for credit) Upper-division course whose content changes in accordance with the interest and competence of faculty.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 1-3 lecture

**Grade Mode:** Standard Letter

**ARTE 41096 INDIVIDUAL STUDY-ART EDUCATION 1-6 Credit Hours**

(Repeatable for credit) Additional study in areas of students' choice in consultation with adviser.

**Prerequisite:** Special approval.

**Schedule Type:** Individual Investigation

**Contact Hours:** 1-6 other

**Grade Mode:** Standard Letter-IP

**ARTE 41192 ART EDUCATION: FIELD EXPERIENCE (ELR) (WIC) 3 Credit Hours**

(Slashed with ARTE 51192) A planning and teaching experience for teaching art in various settings; analysis of classroom situations emphasized. Fifty-four field and/or clinical hours are associated with this course.

**Prerequisite:** Minimum 2.500 overall GPA; and special approval.

**Pre/corequisite:** ARTE 41002.

**Schedule Type:** Practical Experience

**Contact Hours:** 9 other

**Grade Mode:** Standard Letter

**Attributes:** Experiential Learning Requirement, Writing Intensive Course

**ARTE 41525 ART EDUCATION:INQUIRY INTO PROFESSIONAL PRACTICE 3 Credit Hours**

(Slashed with ARTE 51525) Concepts and practices related to teaching art. Inquiry into art teaching as a professional practice. Emphasis is on teacher as critical disciplined investigator. Twenty-six field and/or clinical hours are associated with this course.

**Prerequisite:** ARTE 41009; and minimum 2.500 GPA; and special approval.

**Corequisite:** ARTE 41592.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ARTE 41592 ART EDUCATION:STUDENT TEACHING AND SEMINAR (ELR) 9 Credit Hours**

Provides a 14-week student teaching experience and associated seminar. See the student teaching section in the catalog. To be enrolled in student teaching, students must present to the clinical experience campus office official valid certification of Child Safety Training, approved Basic Life Support and ALICE training.

**Prerequisite:** ARTE 41009; and minimum 2.500 overall GPA; and special approval.

**Corequisite:** ARTE 41525.

**Schedule Type:** Practical Experience, Seminar

**Contact Hours:** 1 lecture, 24 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**Attributes:** Experiential Learning Requirement

**ARTE 51002 ART EDUCATION: FOUNDATIONS AND CONCEPTS SECONDARY 3 Credit Hours**

An examination of relationships among content, materials and strategies for teaching art to students in grades 7-12 and students with special needs. Nine field and or clinical hours are associated with this course.

**Prerequisite:** ARTE 31004; and minimum 2.750 overall GPA; and graduate standing.

**Schedule Type:** Field Experience, Lecture, Studio

**Contact Hours:** 3 lecture, 1 other

**Grade Mode:** Standard Letter

**ARTE 51004 PRE-KINDERGARTEN-12 DESIGN EDUCATION 3 Credit Hours**

(Slashed with ARTE 41004) Students develop lessons that address environment design, communication design, product design and interactive design, as well as conduct research methods and use materials that are appropriate for students in elementary and secondary schools. Students learn the design process and design thinking, adapted specifically for the context of PreK-12 education. Assignments are created around design issues that integrate with other subject areas, have relevance to young students' lives and connect to the national and Ohio content standards.

**Prerequisite:** Graduate standing.

**Schedule Type:** Studio

**Contact Hours:** 6 other

**Grade Mode:** Standard Letter

**ARTE 51092 FIELD EXPERIENCE:TRAVEL STUDY IN ART EDUCATION 1-3 Credit Hours**

(Repeatable for credit) (Cross-listed with ARTE 41092) Travel-based study/field experience in art education at a site or sites away from Kent State University.

**Prerequisite:** Major in Art Education; and graduate standing; and special approval.

**Schedule Type:** Field Experience

**Contact Hours:** 1-3 other

**Grade Mode:** Satisfactory/Unsatisfactory

**ARTE 51095 SPECIAL TOPICS IN ART EDUCATION 1-3 Credit Hours**

(Slashed with ARTE 41095) (Repeatable for credit) Upper-division course whose content changes in accordance with the interest and competence of faculty.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 1-3 lecture

**Grade Mode:** Standard Letter

**ARTE 51192 ART EDUCATION: FIELD EXPERIENCE 3 Credit Hours**

(Slashed with ARTE 41192) A planning and teaching experience for teaching art in various settings; analysis of classroom situations emphasized. Fifty-four field and or clinical hours are associated with this course.

**Prerequisite:** Graduate standing; and special approval.

**Pre/corequisite:** ARTE 41002 or ARTE 51002.

**Schedule Type:** Field Experience, Lecture

**Contact Hours:** 9 other

**Grade Mode:** Standard Letter

**ARTE 51525 ART EDUCATION:INQUIRY INTO PROFESSIONAL PRACTICE 3 Credit Hours**

Concepts and practices related to teaching art. Inquiry into art teaching as a professional practice. Emphasis is on teacher as critical disciplined investigator. Twenty six field and/or clinical hours are associated with this course.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ARTE 61095 SPECIAL TOPICS: ART EDUCATION 3 Credit Hours**

(Repeatable for credit) Topics vary per course offering to reflect the interests and specializations of faculty.

**Prerequisite:** ARTE 61101; and graduate standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter



**ARTE 61096 INDIVIDUAL STUDY IN ART EDUCATION 1-6 Credit Hours**

(Repeatable for credit) Specialized study leading to the thesis in art education.

**Prerequisite:** ARTE 61101 and ARTE 61191 and ARTE 61291; and graduate standing; and special approval.

**Schedule Type:** Individual Investigation

**Contact Hours:** 1-6 other

**Grade Mode:** Standard Letter-IP

**ARTE 61101 RESEARCH SEMINAR IN ART EDUCATION 3 Credit Hours**

Specialized research seminar exploring methods and methodologies pertinent to research in art education.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Seminar

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ARTE 61191 SEMINAR IN ART EDUCATION I 3 Credit Hours**

(Repeatable for credit) Emphasizes the study of some prevailing themes in Pre K-12 art and design education. The curriculum focuses on the ideas of leading scholars and practicing teachers who have shaped practice in the field of art education within the context of the social, political and educational values and beliefs of the time.

**Prerequisite:** Major in Art Education; and graduate standing.

**Schedule Type:** Seminar

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**ARTE 61209 CANDIDACY REVIEW EXAMINATION:ART EDUCATION 1 Credit Hour**

A comprehensive review that undertakes a formal assessment of students' knowledge and understanding of concepts in art, education and art education.

**Prerequisite:** ARTE 61101; and graduate standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 1 lecture

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**ARTE 61291 SEMINAR IN ART EDUCATION II 3 Credit Hours**

(Repeatable for credit) A continuation of the topics addressed in ARTE 61191. The study of some prevailing themes in Pre K-12 art and design education. The curriculum focuses on the ideas of leading scholars and practicing teachers who have shaped practice in the field of art education within the context of the social, political and educational values and beliefs of the time.

**Prerequisite:** ARTE 61191; and graduate standing.

**Schedule Type:** Seminar

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**ARTE 61380 MASTER'S RESEARCH SEMINAR 2 Credit Hours**

(Repeatable twice for credit) Course guides the design of the proposal of the terminal project in the non-thesis track of the Master of Arts degree Art Education.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Seminar

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**ARTE 61398 MASTER'S PROJECT RESEARCH 1 Credit Hour**

(Repeatable for credit) Non-thesis option students undertake their project research and defend it before a committee.

**Prerequisite:** ARTE 61191 and ARTE 61291; and special approval.

**Schedule Type:** Research

**Contact Hours:** 1 other

**Grade Mode:** Standard Letter

## Art History (ARTH)

**ARTH 12001 ART AS A WORLD PHENOMENON (KFA) 3 Credit Hours**

Course explore the essential qualities of art and the motivations for creating art in both Western and non-Western cultures through a thematic paradigm. By the end of the term, students have developed an enhanced ability to identify and describe various media and styles of artistic production, and have a basic knowledge of the major cultural periods and representative artworks in the history of world art. This course is designed for non-art majors, and will not fulfill requirements for School of Art majors.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Kent Core Fine Arts, Transfer Module Fine Arts

**ARTH 22006 ART HISTORY: ANCIENT AND MEDIEVAL ART (KFA) 3 Credit Hours**

Examination and interpretation of the major monuments of Western art and architecture from Paleolithic art to late Gothic art. The impact of non-Western traditions is included as appropriate.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Kent Core Fine Arts, TAG Arts and Humanities, Transfer Module Fine Arts

**ARTH 22007 ART HISTORY: RENAISSANCE TO MODERN ART (KFA) 3 Credit Hours**

Major movements and artists in painting, sculpture and allied arts of Europe and America from early Renaissance in Italy until the present day. The impact of non-Western traditions is included as appropriate.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Kent Core Fine Arts, TAG Arts and Humanities, Transfer Module Fine Arts

**ARTH 22020 ART OF AFRICA, OCEANIA AND THE AMERICAS (DIVG) (KFA) 3 Credit Hours**

Stylistic and historical investigation of the art and architecture of the traditional societies of Africa, Oceania and the Americas within an art historical and cross-cultural perspective.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Diversity Global, Kent Core Fine Arts, Transfer Module Fine Arts

**ARTH 32066 LATE MODERN ART 3 Credit Hours**

Painting, sculpture and allied arts in the United States and Europe, from 1940 to the present.

**Prerequisite:** ARTH 22007.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ARTH 42000 RESEARCH AND WRITING IN ART HISTORY (WIC) 3 Credit Hours**

Introduction to the basic techniques and resources for art history research. Provides assistance in the preparation of research papers and critical essays required by upper-division art history courses.

**Prerequisite:** Junior or senior standing.

**Corequisite:** Art history upper-division (ARTH 30000 or 40000 level) course.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Writing Intensive Course

**ARTH 42025 ART OF WEST AFRICA (DIVG) 3 Credit Hours**

(Cross-listed with ARTH 52025) Arts, crafts and architecture of the western Sudanic and Guinea Coast areas of West Africa, from prehistoric times to the present.

**Prerequisite:** Junior or senior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Diversity Global

**ARTH 42026 ART OF NIGERIA (DIVG) 3 Credit Hours**

(Cross-listed with ARTH 52026) Study of the arts, crafts and architecture of Nigeria, from prehistoric times to the present.

**Prerequisite:** Junior or senior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Diversity Global

**ARTH 42027 ART OF CENTRAL AFRICA (DIVG) 3 Credit Hours**

(Cross-listed with ARTH 52027) Comparative study of the arts, crafts and architecture of Central Africa, from prehistoric times to the present.

**Prerequisite:** Junior or senior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Diversity Global

**ARTH 42031 GREEK ARCHAEOLOGY AND ART 3 Credit Hours**

(Cross-listed with CLAS 41401)(Slashed with ARTH 52031 and CLAS 51401) Introduction to archaeology of the Greek world with emphasis on recent discoveries and their impact on the study of Greek art, architecture and sculpture through the Hellenistic period.

**Prerequisite:** Junior or senior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ARTH 42032 ROMAN ARCHAEOLOGY AND ART 3 Credit Hours**

(Cross-listed with CLAS 41402)(Slashed with ARTH 52032 and CLAS 51402) Introduction to archaeology of the Roman world with emphasis on recent discoveries and their impact on the study of Etruscan and Roman art, architecture and sculpture through the Imperial period.

**Prerequisite:** Junior or senior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ARTH 42036 MEDIEVAL ART 3 Credit Hours**

(Cross-listed with ARTH 52036) Emphasis on major period of Medieval art (Byzantine, Carolingian, Ottonian, Romanesque and Gothic) treating iconographic themes and styles in a variety of media.

**Prerequisite:** Junior or senior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ARTH 42039 GOTHIC ART, 12TH TO 15TH CENTURIES 3 Credit Hours**

(Cross-listed with ARTH) An examination of the development of European Gothic art from the 12th century to the 15th century. Emphasis on the ties to contemporary philosophical and literary developments.

**Prerequisite:** ARTH 22006 and ARTH 22007.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ARTH 42041 ITALIAN RENAISSANCE ART 3 Credit Hours**

(Cross-listed with ARTH 52041) Study of development of major themes in Italian art from 1400 until about 1550, emphasizing achievements of the masters and analyzing major ideas and theories of the period.

**Prerequisite:** Junior or senior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ARTH 42042 NORTHERN RENAISSANCE ART 3 Credit Hours**

(Cross-listed with ARTH 52042) Study of stylistic and iconographic questions and technique in Northern panel painting, as well as other arts in Northern Europe.

**Prerequisite:** Junior or senior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ARTH 42043 THE HIGH RENAISSANCE AND MANNERISM IN ITALY 3 Credit Hours**

(Cross-listed with ARTH 52043) Covers late 15th century and 16th century painting, sculpture and architecture in Italy. Following discussion of the High Renaissance masters, students examine the works collectively known as the Mannerists. Course gives students a firm grounding in the manifold artistic activity of the 16th century.

**Prerequisite:** Junior or senior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ARTH 42044 VENETIAN RENAISSANCE ART 3 Credit Hours**

(Cross-listed with ARTH 52044) Course provides a survey of Venetian painting, sculpture and architecture from the late 1300's to the late 1500's. Upon completion students have a comprehension of the interrelationship of Venetian art with its unique environment and society.

**Prerequisite:** Junior or senior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ARTH 42045 ITALIAN ART FROM GIOTTO TO BERNINI 3 Credit Hours**

(Slashed with ARTH 52045) Course explores the development of art and architecture in Italy from the late Middle Ages to the High Renaissance period. Through an in-depth analysis of the art and history of these periods, students develop an understanding of Italy's role in the overall development of Western civilization. Particular emphasis is given to Florentine Art.

**Prerequisite:** Junior or senior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ARTH 42046 BAROQUE ART OF THE 17TH CENTURY 3 Credit Hours**

(Slashed with ARTH 52046) Study of the origins of Baroque art in Italy and its spread throughout Flanders, the Netherlands, France and Spain.

**Prerequisite:** Junior or senior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ARTH 42051 EUROPEAN ART AND IDEAS: 1750-1900 3 Credit Hours**

(Slashed with ARTH 52051) Selected studies in late 18th-century and 19th-century British, French, German and Spanish art and architecture within the broader context of Western culture and ideas.

**Prerequisite:** Junior or senior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ARTH 42061 EARLY 20TH-CENTURY ART 3 Credit Hours**

(Cross-listed with ARTH 52061) Study of painting, sculpture, architecture and allied arts in Europe from 1880 to 1940.

**Prerequisite:** ARTH 22007.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ARTH 42062 PICASSO 3 Credit Hours**

Course provides a survey of the art of Picasso, starting with his childhood works. Students gain a better understanding of Picasso's pivotal importance to 20th century art and various influences that cultivated his incredible creativity.

**Prerequisite:** Junior or senior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ARTH 42063 AMERICAN ART:EUROPEAN ROOTS 3 Credit Hours**

(Cross-listed with ARTH 52063) Examines the role of European roots in the formation of American art. The complex issues and identities artists faced as a result of the expatriate experience are addressed.

**Prerequisite:** Junior or senior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ARTH 42064 DADA AND SURREALISM 3 Credit Hours**

Using a roughly chronological approach, students examine the profound and lasting contributions made by the Dadaists and Surrealists, as well as other revolutionary modernists of the early 20th century who sought to escape the traditional and rational in art and thought with sincerity in spite of the often superficially simple or even sometimes nihilistic appearance of their efforts. Through an analysis of selected works from this period and their relevant precursors, an attempt will be made to define the progressive ideas which led to the dismantling of previous standards and the rise of an anti-art spirit which continues today in various guises. Primary documents are considered regularly to provide students with a wider appreciation for the variety of media (e.g., film, theater, typography) and the issues and characters involved.

**Prerequisite:** Junior or senior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ARTH 42067 ART OF THE 1960S 3 Credit Hours**

(Cross-listed with ARTH 52067) A survey of the major movement of the sixties decade, with primary emphasis on the United States.

**Prerequisite:** Junior or senior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ARTH 42071 HISTORY OF PRINTS 3 Credit Hours**

Chronological survey of printmaking (engraving, etching, lithography, etc.) From 1400 to the present emphasizing its technical and stylistic evolution.

**Prerequisite:** Junior or senior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ARTH 42076 HISTORIES AND THEORIES OF PHOTOGRAPHY AND VISUAL CULTURE 3 Credit Hours**

(Slashed with ARTH 52076) Photography is embedded in every aspect of visual culture. As such, this course is a socio-political and socio-cultural study of photography. This course focuses on major developments in the field, including photography's advent, 19th-century commodity, scientific manipulations, 20th century Modernism and postwar aesthetics. Course also sketches political, cultural and theoretical developments and pertinent debates regarding emergence, significance, interpretation, perception and resonance. In addition to manifold moments in histories and theories of photography, course examines critical approaches to the history of art, including ecocriticism, feminism, critical race studies, queer studies and borderlands studies. While effort will be made to survey photography's history, this is not taxonomy of related movements and moments.

**Prerequisite:** ARTH 32066.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ARTH 42078 HISTORY OF THE DECORATIVE AND APPLIED ARTS 3 Credit Hours**

(Cross-listed with ARTH 52078) Historical and critical examination of decorative and applied arts and their relationship to the Western societies which produced them.

**Prerequisite:** ARTH 22006 and ARTH 22007.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ARTH 42091 ART HISTORY SEMINAR 3 Credit Hours**

(Repeatable for credit) Open format course with topics announced in advance. Designed to allow detailed examination of selected topics.

**Prerequisite:** Junior standing; and special approval of instructor.

**Schedule Type:** Seminar

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**ARTH 42092 MUSEUM INTERNSHIP (ELR) 1-6 Credit Hours**

(Repeatable for credit) (Slashed with ARTH 52092) A supervised internship in a regional museum emphasizing the practical application of museological principles and practices.

**Prerequisite:** Junior or senior standing.

**Schedule Type:** Practical Experience

**Contact Hours:** 3-18 other

**Grade Mode:** Standard Letter-IP

**Attributes:** Experiential Learning Requirement

**ARTH 42095 SPECIAL TOPICS:ART HISTORY 1-3 Credit Hours**

(Repeatable for credit) (Cross-listed with ARTH 52095) Topics vary in accordance with the interest and competence of faculty.

**Prerequisite:** Junior or senior standing.

**Schedule Type:** Lecture

**Contact Hours:** 1-3 lecture

**Grade Mode:** Standard Letter

**ARTH 42096 INDIVIDUAL INVESTIGATION:ART HISTORY 1-3 Credit Hours**

(Repeatable for credit) (Cross-listed with ARTH 52096) Directed independent study with art history faculty.

**Prerequisite:** Junior or senior standing.

**Schedule Type:** Individual Investigation

**Contact Hours:** 1-3 other

**Grade Mode:** Standard Letter-IP

**ARTH 42098 RESEARCH IN ART HISTORY (ELR) 1-3 Credit Hours**

(Repeatable for credit) (Slashed with ARTH 52098) Independent research open only to undergraduate students in art history or related fields (by special permission only).

**Prerequisite:** Special approval.

**Schedule Type:** Research

**Contact Hours:** 3-9 other

**Grade Mode:** Standard Letter

**Attributes:** Experiential Learning Requirement

**ARTH 42192 FIELD EXPERIENCE:TRAVEL STUDY IN ART HISTORY (ELR) 1-3 Credit Hours**

(Repeatable for credit) (Cross-listed with ARTH 52192) Travel-based study/field experience in art history to and at a site or sites away from Kent State University. The primary benefit will be the observation and study of works of art first hand, in addition to the presentation and discussion of historical and contextual factors. Time is made available for individual investigation of specific works sites.

**Prerequisite:** Major in Art History.

**Schedule Type:** Field Experience

**Contact Hours:** 1-3 other

**Grade Mode:** Satisfactory/Unsatisfactory

**Attributes:** Experiential Learning Requirement

**ARTH 52025 ART OF WEST AFRICA 3 Credit Hours**

(Cross-listed with ARTH 42025) Arts, crafts and architecture of the Western Sudanic and Guinea Coast areas of West Africa from prehistoric times to the present.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ARTH 52026 ART OF NIGERIA 3 Credit Hours**

(Cross-listed with ARTH 42026) Study of the arts, crafts and architecture of Nigeria from prehistoric times to present.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ARTH 52027 ART OF CENTRAL AFRICA 3 Credit Hours**

(Cross-listed with ARTH 42027) Study of the arts, crafts and architecture of Central Africa from prehistoric times to present.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ARTH 52031 GREEK ARCHAEOLOGY AND ART 3 Credit Hours**

(Cross-listed with CLAS 51401)(Slashed with ARTH 42031 and CLAS 41401) Introduction to archaeology of the Greek world with emphasis on recent discoveries and their impact on the study of Greek art, architecture and sculpture through the Hellenistic period.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ARTH 52032 ROMAN ARCHAEOLOGY AND ART 3 Credit Hours**

(Cross-listed with CLAS 51402)(Slashed with ARTH 42032 and CLAS 41402) Introduction to archaeology of the Roman world. Emphasis on discoveries and impact on the study of Etruscan and Roman art, architecture and sculpture through Imperial period.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ARTH 52036 MEDIEVAL ART 3 Credit Hours**

(Cross-listed with ARTH 42036) Emphasis on major periods of Medieval art (Byzantine, Carolingian, Ottonian, Romanesque and Gothic), treating iconographic themes and styles in a variety of media.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ARTH 52038 HAND MADE BOOKS AND ART 3 Credit Hours**

Course examines the history of (predominantly Western) books and reading; of books as locus of several types of visual art (decoration, illustration, vision, commentary); and of visual strategies for a range of communication tasks in selected books from the Middle Ages onward. Students are prepared to understand the variety and efficacy of approaches that have been used by those producing books by hand in the past and at present.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ARTH 52039 GOTHIC ART:12TH TO 15TH CENTURIES 3 Credit Hours**

An examination of the development of European Gothic art from the 12th to the 15th centuries. Students research specific works of art. Emphasis on contemporary historical philosophical and literary figures.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ARTH 52041 ITALIAN RENAISSANCE ART 3 Credit Hours**

(Cross-listed with ARTH 42041) Study of development of major themes in Italian art from 1400 until about 1550, emphasizing achievements of the masters and analyzing major ideas and theories of the period.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ARTH 52042 NORTHERN RENAISSANCE ART 3 Credit Hours**

(Cross-listed with ARTH 42042) Study of stylistic and iconographic questions and technique in northern panel painting, as well as other arts in Northern Europe.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ARTH 52043 THE HIGH RENAISSANCE AND MANNERISM IN ITALY 3 Credit Hours**

(Cross-listed with ARTH 42043) Covers late 15th century and 16th century painting, sculpture and architecture in Italy. Following discussion of the High Renaissance masters students examine the works collectively known as the Mannerists. Course gives students a firm grounding in the manifold artistic activity of the 16th century.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ARTH 52044 VENETIAN RENAISSANCE ART 3 Credit Hours**

(Cross-listed with ARTH 42044) Course provides a survey of Venetian painting, sculpture and architecture from the late 1300's to the late 1500's. Upon completion students will have a comprehension of Venetian art with its unique environment and society.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ARTH 52045 ITALIAN ART FROM GIOTTO TO BERNINI 3 Credit Hours**

(Slashed with ARTH 42045) Course explores the development of art and architecture in Italy from the late Middle Ages to the High Renaissance period. Through an in-depth analysis of the art and history of these periods, students develop an understanding of Italy's role in the overall development of Western civilization. Particular emphasis is given to Florentine Art.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ARTH 52046 BAROQUE ART IN EUROPE 3 Credit Hours**

(Slashed with ARTH 42046) A study of the origins of Baroque art in Italy and its spread throughout Flanders, the Netherlands, France and Spain.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ARTH 52051 EUROPEAN ART, 1750-1900 3 Credit Hours**

(Cross-listed with ARTH 42051) Selected studies in late 18th-century and 19th-century painting, sculpture architecture and allied arts of England, France, Germany and Spain.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ARTH 52061 EARLY 20TH-CENTURY ART 3 Credit Hours**

(Cross-listed with ARTH 42061) A study of painting, sculpture, architecture and allied arts in Europe from 1880 to 1940.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ARTH 52062 PICASSO 3 Credit Hours**

Course provides a survey of the art of Picasso, starting with his childhood works. Students gain a better understanding of Picasso's pivotal importance to 20th century art and the various influences that cultivated his incredible creativity.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ARTH 52063 AMERICAN ART:EUROPEAN ROOTS 3 Credit Hours**

(Cross-listed with ARTH 42063) Examines the role of European roots in the formation of American art. The complex issues and identities artists faced as a result of the expatriate experience are addressed.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter



**ARTH 52064 DADA AND SURREALISM 3 Credit Hours**

Using a roughly chronological approach, students examine the profound and lasting contributions made by the Dadaists and Surrealists, as well as other revolutionary modernists of the early 20th century who sought to escape the traditional and rational in art and thought with sincerity in spite of the often superficially simple or even sometimes nihilistic appearance of their efforts. Through an analysis of selected works from this period and their relevant precursors, an attempt will be made to define the progressive ideas which led to the dismantling of previous standards and the rise of an anti-art spirit which continues today in various guises. Primary documents are considered regularly to provide students with a wider appreciation for the variety of media (e.g., film, theater, typography) and the issues and characters involved.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ARTH 52066 LATE MODERN ART SINCE 1940 3 Credit Hours**

A study of painting, sculpture and allied arts in the United States and Europe from 1940 to the present.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ARTH 52067 ART OF THE 1960S 3 Credit Hours**

(Cross-listed with ARTH 42067) A survey of major movements of the sixties decade, with primary emphasis on the United States.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ARTH 52076 HISTORIES AND THEORIES OF PHOTOGRAPHY AND VISUAL CULTURE 3 Credit Hours**

(Slashed with ARTH 42076) Photography is embedded in every aspect of visual culture. As such, this course is a socio-political and socio-cultural study of photography. This course focuses on major developments in the field, including photography's advent, 19th-century commodity, scientific manipulations, 20th century Modernism and postwar aesthetics. Course also sketches political, cultural and theoretical developments and pertinent debates regarding emergence, significance, interpretation, perception and resonance. In addition to manifold moments in histories and theories of photography, course examines critical approaches to the history of art, including ecocriticism, feminism, critical race studies, queer studies and borderlands studies. While effort will be made to survey photography's history, this is not taxonomy of related movements and moments.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ARTH 52078 HISTORY OF DECORATIVE AND APPLIED ARTS 3 Credit Hours**

(Cross-listed with ARTH 42078) Historical and critical examination of decorative and applied arts and their relationship to Western societies which produced them.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ARTH 52092 MUSEUM INTERNSHIP 1-6 Credit Hours**

(Repeatable for credit) (Slashed with ARTH 42092) A supervised internship in a regional museum emphasizing the practical application of museological principles and curatorial practices.

**Prerequisite:** Graduate standing.

**Schedule Type:** Practical Experience

**Contact Hours:** 3-18 other

**Grade Mode:** Standard Letter-IP

**ARTH 52095 SPECIAL TOPICS:ART HISTORY 1-3 Credit Hours**

(Repeatable for credit) (Cross-listed with ARTH 42095) Topics vary in accordance with the interest and competence of faculty.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 1-3 lecture

**Grade Mode:** Standard Letter

**ARTH 52096 INDIVIDUAL INVESTIGATION:ART HISTORY 1-3 Credit Hours**

(Repeatable for credit) (Slashed with ARTH 42096) Directed independent study with art history faculty.

**Prerequisite:** Graduate standing.

**Schedule Type:** Individual Investigation

**Contact Hours:** 3-9 other

**Grade Mode:** Standard Letter-IP

**ARTH 52098 RESEARCH IN ART HISTORY 1-3 Credit Hours**

(Repeatable for credit) (Slashed with ARTH 42098) Independent research open only to graduate students in art history or related fields.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Research

**Contact Hours:** 3-9 other

**Grade Mode:** Standard Letter-IP

**ARTH 52192 FIELD EXPERIENCE:TRAVEL STUDY IN ART HISTORY 1-3 Credit Hours**

(Repeatable for credit) (Slashed with ARTH 42192) Travel-based study/field experience in art history to and at a site or sites away from Kent State University. The primary benefit will be the observation and study of works of art first hand, in addition to the presentation and discussion of historical and contextual factors. Time is made available for individual investigation of specific works sites.

**Prerequisite:** Major in Art History; and graduate standing.

**Schedule Type:** Field Experience

**Contact Hours:** 3 other

**Grade Mode:** Satisfactory/Unsatisfactory

**ARTH 62000 ART HISTORY RESEARCH METHODS AND RESOURCES 2 Credit Hours**

This course provides necessary foundational skills and resources in order to conduct research in art history.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**ARTH 62071 HISTORY OF PRINTS 3 Credit Hours**

A chronological survey of printmaking (engraving, etching, lithography, etc.) From 1400 to the present emphasizing its technical and stylistic evolution.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ARTH 62091 ART HISTORY SEMINAR 3 Credit Hours**

(Repeatable for maximum 9 credit hours) Open format course with topics announced in advance. Designed to allow in-depth examination of selected topics.

**Prerequisite:** Graduate standing.

**Schedule Type:** Seminar

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**ARTH 62095 SPECIAL TOPICS: ART HISTORY 3 Credit Hours**

(Repeatable for credit) Discussion and lecture course whose topic changes in accordance with the interest and competence of the faculty. Special focus on problems and issues in the different areas of the discipline.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ARTH 62096 SELECTED PROBLEMS: ART HISTORY 3 Credit Hours**

(Repeatable for maximum 9 credit hours) Course content changes each semester according to the topic, entailing discussion and lectures on specific problems issues and areas in art history.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Individual Investigation

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**ARTH 62098 RESEARCH 1-15 Credit Hours**

(Repeatable for credit) Independent research.

**Prerequisite:** Master of Arts degree in Art History; and graduate standing.

**Schedule Type:** Research

**Contact Hours:** 1-15 other

**Grade Mode:** Standard Letter

## Art Studio Art (ARTS)

**ARTS 14000 DRAWING I 3 Credit Hours**

Fundamental drawing and studio experiences; exploration of basic drawing ideas and media. Work produced in class must be retained for later portfolio presentation in ART 30001.

**Prerequisite:** None.

**Schedule Type:** Studio

**Contact Hours:** 6 other

**Grade Mode:** Standard Letter

**Attributes:** TAG Arts and Humanities

**ARTS 14001 DRAWING II 3 Credit Hours**

Continued practice in drawing with emphasis upon dimensional representation, pictorial structure and the breakdown of formal elements. Work produced in this class must be retained for later portfolio presentation in ART 30001.

**Prerequisite:** ARTS 14000.

**Schedule Type:** Studio

**Contact Hours:** 6 other

**Grade Mode:** Standard Letter

**ARTS 24002 DRAWING AS A STUDIO PRACTICE 3 Credit Hours**

An introduction to advanced concepts and ideas which enable the student to understand and professionally realize their drawings as a studio practice. Work produced in this course must be retained for later portfolio presentation in ART 30001.

**Prerequisite:** ARTS 14000 and ARTS 14001.

**Schedule Type:** Studio

**Contact Hours:** 6 other

**Grade Mode:** Standard Letter

**ARTS 24010 INTRODUCTION TO FINE ART PHOTOGRAPHY 3 Credit Hours**

Introductory studio/lecture course which introduces fine art photography with an aesthetic, contemporary approach. Students learn traditional and digital photographic image-making applications and the historical underpinnings of the photograph in modern art. Research paper and portfolio required. Work produced in this class must be retained for later portfolio presentation in ART 30001.

**Prerequisite:** None.

**Schedule Type:** Studio

**Contact Hours:** 6 other

**Grade Mode:** Standard Letter

**ARTS 24040 PRINTMAKING I 3 Credit Hours**

Course gives the beginning student an overview of basic printmaking techniques and an understanding of what a print is, its form in both unique and multiple formats, and how these function in culture.

Printmaking processes result in a rich array of pictorial possibilities and methodological approaches. Students are exposed to the basic techniques and concepts of relief, intaglio and monotype applications for printmaking.

**Prerequisite:** None.

**Schedule Type:** Studio

**Contact Hours:** 6 other

**Grade Mode:** Standard Letter

**ARTS 24051 INTRODUCTION TO SCULPTURAL PRACTICE 3 Credit Hours**

Course provides a firm grounding in the rudiments of sculpture and sculpture's expanding field. Drawing on historical, aesthetic and technical strategies of generating and understanding sculpture; students are guided toward the realization of three-dimensional form. Discussions of materials, processes and hands-on practice empower the student to move from concept to completed work, engendering a better understanding of how sculpture is situated within the context of culture and society at large. Students explore the formal properties and expressive potential of materials, including mold making and casting, wood, metal and experimental media. Readings, slide presentations, discussions and critiques help provide the vocabulary for such an understanding.

**Prerequisite:** None.

**Schedule Type:** Studio

**Contact Hours:** 6 other

**Grade Mode:** Standard Letter

**ARTS 24061 INTRODUCTION TO PAINTING 3 Credit Hours**

Acrylic-based media is used to introduce the fundamentals of building a painting, the development of a sophisticated painting vocabulary, and a confident understanding of color. Emphasis on observational painting from life through varied techniques, with an introduction to tools, processes and best studio practices. Work must be retained for later portfolio presentation in Art 30001.

**Prerequisite:** None.

**Schedule Type:** Studio

**Contact Hours:** 6 other

**Grade Mode:** Standard Letter

**ARTS 25300 TEXTILES: PATTERN 3 Credit Hours**

An introduction to the concepts and processes of constructed pattern including plaiting, and weaving. Off-loom and floor loom explorations will emphasize the relationship of form and structure in textile art.

An emphasis is placed on the resourceful use of nontraditional or experimental materials.

**Prerequisite:** None.

**Schedule Type:** Studio

**Contact Hours:** 6 other

**Grade Mode:** Standard Letter

**ARTS 25400 CERAMICS I 3 Credit Hours**

Course introduces ceramics as an artistic medium, with focus on the handbuilding of clay objects using the pinch, coil and slab methods of construction.

**Prerequisite:** None.

**Schedule Type:** Studio

**Contact Hours:** 6 other

**Grade Mode:** Standard Letter

**Attributes:** TAG Arts and Humanities

**ARTS 25600 INTRODUCTION TO GLASS WORKING 3 Credit Hours**

Introduction to studio glass through technique and brief history. Both basic glass blowing and glass casting techniques and problems are covered.

**Prerequisite:** None.

**Schedule Type:** Studio

**Contact Hours:** 6 other

**Grade Mode:** Standard Letter

**ARTS 25700 INTRODUCTION TO JEWELRY METALS I 3 Credit Hours**

Introduction to basic jewelry and metalsmithing techniques including fabrication, forming and finishing. Emphasis on advancing design skills and critical analysis. Exposure to historical and contemporary works.

**Prerequisite:** None.

**Schedule Type:** Studio

**Contact Hours:** 6 other

**Grade Mode:** Standard Letter

**ARTS 25701 INTRODUCTION TO JEWELRY/METALS FOR NON-ART MAJORS 3 Credit Hours**

Introduction to basic jewelry and metalsmithing techniques including fabrication, forming and finishing. Emphasis on advancing design skills and critical analysis. Exposure to historical and contemporary works.

**Prerequisite:** Major that is not in the School of Art.

**Schedule Type:** Studio

**Contact Hours:** 5 other

**Grade Mode:** Standard Letter

**ARTS 34002 FIGURE DRAWING 3 Credit Hours**

(Repeatable for credit) Extensive studio practice of traditional and contemporary approaches to the human figure. Critical analysis of the figure from the Renaissance through postmodernism. Students work from a nude model.

**Prerequisite:** ARTS 24001 or ARTS 24002.

**Schedule Type:** Studio

**Contact Hours:** 6 other

**Grade Mode:** Standard Letter

**ARTS 34003 DRAWING: STRUCTURE AND EXPERIMENTATION 3 Credit Hours**

(Repeatable for credit) Extensive exploration of advanced drawing concepts and ideas as strategies for experimentation with process and materials.

**Prerequisite:** ARTS 24001 or ARTS 24002.

**Schedule Type:** Studio

**Contact Hours:** 6 other

**Grade Mode:** Standard Letter

**ARTS 34040 PRINTMAKING:INTERMEDIATE INTAGLIO 3 Credit Hours**

Continuation of ARTS 24040 emphasizing individually assigned problems in intaglio with introduction to color intaglio techniques.

**Prerequisite:** ART 10022 and ART 10024 and ARTS 24040.

**Schedule Type:** Studio

**Contact Hours:** 6 other

**Grade Mode:** Standard Letter

**ARTS 34041 SERIGRAPHY I 3 Credit Hours**

The initial presentation of fundamental concepts and processes pertaining to serigraphy. Course includes printing techniques and aesthetic considerations in the making of art.

**Prerequisite:** ART 10022 and ART 10024 and ARTS 24040.

**Schedule Type:** Studio

**Contact Hours:** 6 other

**Grade Mode:** Standard Letter

**ARTS 34042 LITHOGRAPHY I 3 Credit Hours**

Introduction to stone lithography. Techniques of drawing and printing crayon, tusche, transfer and color images and their relation to problems of drawing and composition. Prerequisite: ART 10022, ART 10024 and ARTS 24040

**Schedule Type:** Studio

**Contact Hours:** 6 other

**Grade Mode:** Standard Letter

**ARTS 34050 SCULPTURE: LIFE MODELING 3 Credit Hours**

(Repeatable for maximum 6 credit hours) Continuation of the study of the human figure in sculpture.

**Prerequisite:** ARTS 24051.

**Schedule Type:** Studio

**Contact Hours:** 6 other

**Grade Mode:** Standard Letter

**ARTS 34051 SCULPTURAL OBJECT 3 Credit Hours**

Course builds on ARTS 24051 with a greater emphasis on content, proficiency, technical expertise, craftsmanship and understanding of contemporary sculpture. Students explore the object in space, delineating issues of scale, materiality, representation, abstraction, metaphor and hybridity. Drawing on historical, aesthetic and technical strategies of generating and understanding sculpture, students are guided toward the realization of more sophisticated and complex ways of handling materials and incorporating meaning. Discussions of materials, processes and hands-on practice empower the student to move from concept to completed work, engendering a better understanding of how sculpture is situated within the context of culture and society at large. Readings, slide presentations, discussions and critiques help provide the vocabulary for such an understanding.

**Prerequisite:** ARTS 24051.

**Schedule Type:** Studio

**Contact Hours:** 6 other

**Grade Mode:** Standard Letter

**ARTS 34052 TIME ARTS 3 Credit Hours**

This interdisciplinary class investigates the fundamentals of time-based media and its intersection with sculptural practice. Students build on concepts from ARTS 24051 to gain a broader understanding of multiple methods of making including performance, video, site and situation-specific works, as well as the use of traditional sculptural materials. Discussions of materials, processes and hands-on practice empower the student to move from concept to completed work engendering a better understanding of how sculpture is situated within the contemporary art world. Readings, slide presentations, discussions and critiques help provide the vocabulary for such an understanding.

**Prerequisite:** ARTS 24051.

**Schedule Type:** Studio

**Contact Hours:** 6 other

**Grade Mode:** Standard Letter

**ARTS 34053 SITE AND INSTALLATION 3 Credit Hours**

This interdisciplinary course builds on concepts introduced in ARTS 24051, and expands on a variety of approaches in developing site-specific installations by considering the relationship between object/context, public/private, interior/exterior and urban/rural. Through the manipulation of materials, found objects and time-based media, students are introduced to concepts of space, intention, site and intervention through experimental approaches. Students further develop an understanding of material and context through in-depth readings, lectures and critical dialogue. Sculptural techniques, performance, photography and video art are covered and incorporated into the course. Studio time is supplemented by readings, lectures and site visits around campus.

**Prerequisite:** ARTS 24051.

**Schedule Type:** Studio

**Contact Hours:** 6 other

**Grade Mode:** Standard Letter

**ARTS 34061 INTERMEDIATE PAINTING 3 Credit Hours**

Continuation of painting from observation with an introduction to oil paints and mediums. Students will look outside of the still life at various subjects including spatial dynamics, the figure, and abstracted imagery. Introduction to oil painting tools, processes, and best studio practices

**Prerequisite:** ARTS 14060 or ARTS 24061.

**Schedule Type:** Studio

**Contact Hours:** 6 other

**Grade Mode:** Standard Letter

**ARTS 34062 PAINTING STRATEGIES: PROCESS AND CONTENT 3 Credit Hours**

This course focuses on conceptual prompts relative to contemporary issues to encourage a variety of processes and material approaches to making paintings. Students continue the idea of building a painting through the iterative process of making, analyzing, and editing their work throughout the semester. The painting is a live surface, a place to collect and record information, and this course insists that students consider a wide range of formal and conceptual choices to best address content. Each project will be initiated with rigorous research and further supported by exposure to visual examples of historic and contemporary painting, readings, written responses, seminar-style discussions, and numerous critiques of both in-progress and finished work.

**Prerequisite:** ARTS 24060 or ARTS 34061.

**Schedule Type:** Studio

**Contact Hours:** 6 other

**Grade Mode:** Standard Letter

**ARTS 34063 PAINTING STRATEGIES: IMAGE AND CONTENT 3 Credit Hours**

This course investigates various contemporary painting strategies through the use of images as source materials, with a strong emphasis on narrative. Moving away from direct observation and towards the abstraction of imagery, students will be asked to approach their practice through research, preliminary studies and sketches, and a self-driven investigation of the use of images to create concept. Various prompts will be assigned and are designed to provide students with a stronger understanding of the use of found, self-produced, or appropriated imagery as reference for their work, while helping each student build a direction for their painting practice. We will look to other mediums such as film, photography, collage, and advertising to inform the painted image and improve the reading of contemporary painting. We will look to other mediums to better contextualize the painted image in contemporary art.

**Prerequisite:** ARTS 24060 or ARTS 34061.

**Schedule Type:** Studio

**Contact Hours:** 6 other

**Grade Mode:** Standard Letter

**ARTS 35095 STUDIO ART: SPECIAL TOPICS 3 Credit Hours**

(Repeatable for credit) Specialized courses in studio art that focus on specific techniques and media.

**Prerequisite:** Special approval.

**Schedule Type:** Studio

**Contact Hours:** 6 other

**Grade Mode:** Standard Letter

**ARTS 35300 TEXTILES: DIMENSIONAL 3 Credit Hours**

An introduction to the development of unique sculptural objects in textile media. Students explore three-dimensional textile processes using the floor loom and various basketry techniques, including wrapping and coiling and off-loom weaving.

**Prerequisite:** Special approval.

**Schedule Type:** Studio

**Contact Hours:** 6 other

**Grade Mode:** Standard Letter

**ARTS 35301 TEXTILES: PRINT PATTERN 3 Credit Hours**

Focus is on the unique aspects of printing repeat designs on cloth. Screenprinted pattern - developed through manual techniques and digital design - is considered in relation to the surface and the flexible plane of cloth. The development of design, craft skills, and critical evaluation are emphasized in relation to art and industry applications.

**Prerequisite:** Special approval.

**Schedule Type:** Studio

**Contact Hours:** 6 other

**Grade Mode:** Standard Letter

**ARTS 35302 TEXTILES: FELTMAKING 3 Credit Hours**

An opportunity for the in-depth exploration of technical and aesthetic possibilities of this unique process. Layers and textures in two dimensions and processes for three-dimensional feltmaking are introduced and considered as an expressive vocabulary with potential as functional form. Dyeing of wool fleece plays a major role in the course.

**Prerequisite:** Special approval.

**Schedule Type:** Studio

**Contact Hours:** 6 other

**Grade Mode:** Standard Letter

**ARTS 35303 TEXTILES: TAPESTRY 3 Credit Hours**

An introduction to a variety of traditional pictorial tapestry, discontinuous weft faced techniques, to be executed on the frame loom and floor loom. Both tapestry and carpet history are presented to reveal traditional processes, patterns, and images for inspiration in the creation of individual works. Dyeing will play a major role in the exploration.

**Prerequisite:** Special approval.

**Schedule Type:** Studio

**Contact Hours:** 6 other

**Grade Mode:** Standard Letter

**ARTS 35305 TEXTILES: ACCESSORIES - DESIGN AND PRODUCTION 3 Credit Hours**

Focus is on the design and production of textile accessories using the structural process of weaving. Texture, material, and color are critically and creatively considered in relation to the development of unique functional objects. Professional design objectives are presented.

**Prerequisite:** Special approval.

**Schedule Type:** Studio

**Contact Hours:** 6 other

**Grade Mode:** Standard Letter

**ARTS 35306 TEXTILES: SURFACE COLOR AND DESIGN 3 Credit Hours**

Introduction to coloring and patterning cloth through dyeing and resist techniques. Formal and conceptual aspects of surface design in relation to the flexible cloth plane are explored. Study of traditional historic and contemporary textile references provide a foundation for creative development.

**Prerequisite:** Special approval.

**Schedule Type:** Studio

**Contact Hours:** 6 other

**Grade Mode:** Standard Letter

**ARTS 35350 TEXTILES: DESIGN AND PRODUCTION 3 Credit Hours**

A basic introduction to the mechanics of designing and constructing patterned and dyed cloth on the floor loom. Learning to use the computer for the designing of woven pattern is an expectation of the course. This course may be beneficial for fashion and interior designers, as well as anyone interested in the design and craft of weaving.

**Prerequisite:** Special approval.

**Schedule Type:** Studio

**Contact Hours:** 6 other

**Grade Mode:** Standard Letter

**ARTS 35400 FUNCTIONAL APPROACHES TO CLAY 3 Credit Hours**

(Repeatable for credit) Continuation of ARTS 25400 emphasizing functional approaches to clay using the potters wheel and a variety of hand-building techniques.

**Prerequisite:** ARTS 25400.

**Schedule Type:** Studio

**Contact Hours:** 6 other

**Grade Mode:** Standard Letter

**ARTS 35401 SCULPTURAL APPROACHES IN CLAY 3 Credit Hours**

(Repeatable for credit) Continuation of ARTS 25400 emphasizing sculptural approaches to clay. This course may include explorations in three-dimensional form, the human figure, mold making, multiples and installation.

**Prerequisite:** ARTS 25400.

**Schedule Type:** Studio

**Contact Hours:** 6 other

**Grade Mode:** Standard Letter

**ARTS 35602 FLAMEWORKED GLASS 3 Credit Hours**

An investigation of techniques, tools, equipment and materials involved in glass lampworking processes. The course covers basic melting, shaping and blowing with a glass frameworking torch. Students will learn to create larger sculptural objects from modular components through glass "networking" and will explore more technical frameworking processes to become familiarized with glass as a sculptural material.

**Prerequisite:** None.

**Schedule Type:** Studio

**Contact Hours:** 6 other

**Grade Mode:** Standard Letter

**ARTS 35603 GLASS BLOWING 3 Credit Hours**

(Repeatable for credit) Further exploration of glass blowing techniques. Design, form, color and execution will be emphasized.

**Prerequisite:** ARTS 25600.

**Schedule Type:** Studio

**Contact Hours:** 6 other

**Grade Mode:** Standard Letter

**ARTS 35604 SCULPTURAL AND KILN-FORMED GLASS 3 Credit Hours**

(Repeatable for credit) An overview and exploration of sculptural and kiln-formed glass techniques. Casting, pattern making, mold making and cold construction will be covered. Design, form, content and technical execution and understanding operations of equipment are emphasized.

**Prerequisite:** ARTS 25600.

**Schedule Type:** Studio

**Contact Hours:** 6 other

**Grade Mode:** Standard Letter



**ARTS 35700 JEWELRY CONCEPTS AND TECHNIQUES 3 Credit Hours**

An in-depth exploration of jewelry making techniques such as casting, stone setting, mechanisms and fabrication. Conceptual development and design skills are emphasized. To gain a deeper understanding of the subject, historical and contemporary works are viewed and discussed.

**Prerequisite:** ART 10023 and ART 10024 and ARTS 25700.

**Schedule Type:** Studio

**Contact Hours:** 6 other

**Grade Mode:** Standard Letter

**ARTS 35701 METALSMITHING CONCEPTS AND TECHNIQUES 3 Credit Hours**

Course offers an in-depth exploration of hammerworking techniques such as raising, forging and shell forming. Conceptual development and design skills are emphasized. To gain a deeper understanding of the subject, historical and contemporary works are viewed and discussed.

**Prerequisite:** ART 10023 and ART 10024 and ARTS 25700.

**Schedule Type:** Studio

**Contact Hours:** 6 other

**Grade Mode:** Standard Letter

**ARTS 35702 ENAMELING CONCEPTS AND TECHNIQUES 3 Credit Hours**

An in-depth exploration of vitreous enameling techniques on two-dimensional surfaces. Porcelain enamel on steel is introduced. Conceptual development and design skills are emphasized. To gain a deeper understanding of the subject, historical and contemporary works are viewed and discussed.

**Prerequisite:** ARTS 25700 and ARTS 35700.

**Schedule Type:** Studio

**Contact Hours:** 6 other

**Grade Mode:** Standard Letter

**ARTS 35703 TEXTILE TECHNIQUES IN METAL 3 Credit Hours**

Course applies textile techniques such as weaving, crocheting, knitting and basketry to create jewelry and objects in metal. Emphasis is on innovative approach to traditional processes.

**Prerequisite:** ARTS 25700.

**Schedule Type:** Studio

**Contact Hours:** 6 other

**Grade Mode:** Standard Letter

**ARTS 44002 ADVANCED DRAWING FOR ALL DISCIPLINES 3 Credit Hours**

(Repeatable for credit) (Slashed with ARTS 54002) An advanced drawing course, open to all studio disciplines, with an emphasis on students pursuing individually conceived problems in close consultation one-on-one with faculty.

**Prerequisite:** ART 30001; and ARTS 24001 or ARTS 24002.

**Schedule Type:** Studio

**Contact Hours:** 6 other

**Grade Mode:** Standard Letter

**ARTS 44010 ADVANCED FINE ART PHOTOGRAPHY 3 Credit Hours**

Combined studio/lecture course offering more advanced, conceptual approaches to the contemporary applications of photographic imaging for artists. Students work with larger scale printing formats, more involved research and greater depth of involvement with the photographic medium.

**Prerequisite:** ARTS 24010 and ART 30001.

**Schedule Type:** Studio

**Contact Hours:** 6 other

**Grade Mode:** Standard Letter

**ARTS 44011 DIGITAL FINE ART PHOTOGRAPHY 3 Credit Hours**

(Slashed with ARTS 54011) Students develop their technical and conceptual skills in fine art digital photography, and develop a contemporary approach to working with the medium. Students explore various photographic and digital techniques, and form an awareness of such techniques in contemporary photography.

**Prerequisite:** Minimum C grade in ART 10022.

**Schedule Type:** Studio

**Contact Hours:** 5 other

**Grade Mode:** Standard Letter

**ARTS 44040 PRINTMAKING: ADVANCED INTAGLIO 3 Credit Hours**

Continuation of ARTS 34040 with special emphasis on color and photographic techniques intaglio.

**Prerequisite:** ARTS 34040 and ART 30001.

**Schedule Type:** Studio

**Contact Hours:** 6 other

**Grade Mode:** Standard Letter

**ARTS 44041 SERIGRAPHY II 3 Credit Hours**

Continuation of ARTS 34041 emphasizing individually assigned projects.

**Prerequisite:** ARTS 34041 and ART 30001.

**Schedule Type:** Studio

**Contact Hours:** 6 other

**Grade Mode:** Standard Letter

**ARTS 44042 LITHOGRAPHY II 3 Credit Hours**

Advanced investigation of lithography. Introduction to advanced digital and photo-mechanical approaches, in addition to continuation of drawing on stones and plates with crayon, tusche and transfers. Emphasis on color printing and the development of a cohesive body of work in lithography.

**Prerequisite:** ARTS 34042 and ART 30001.

**Schedule Type:** Studio

**Contact Hours:** 6 other

**Grade Mode:** Standard Letter

**ARTS 44043 ADVANCED PRINTMAKING 3 Credit Hours**

(Repeatable for maximum 9 credit hours) Advanced printmaking course with emphasis on students producing new, individually conceived visual works in printmaking in close consultation with faculty. Written proposal by students required at registration.

**Prerequisite:** ART 30001; and two courses from the following:

ARTS 34040, ARTS 34041, ARTS 34042, ARTS 44040, ARTS 44041, ARTS 44042.

**Schedule Type:** Studio

**Contact Hours:** 6 other

**Grade Mode:** Standard Letter

**ARTS 44045 ART OF THE BOOK 3 Credit Hours**

(Slashed with ARTS 54045) An introduction to artist's books. A variety of binding methods and strategies for creating art through alternative and traditional book forms are introduced. Students complete projects and develop a personal visual language through the book form.

**Prerequisite:** Minimum C grade in ART 10022.

**Schedule Type:** Studio

**Contact Hours:** 6 other

**Grade Mode:** Standard Letter

**ARTS 44051 ADVANCED SCULPTURAL PRACTICE 3 Credit Hours**

(Repeatable for credit) Course is self-directed, in which students create a series of sculptural works in consultation with the instructor and through on-going student lead presentations, discussions and in-progress and final critiques. Emphasis is on a creating a body of work over the semester that is informed by and demonstrates an awareness of contemporary practice in terms of approaches to content, form and presentation. Students can work with in a variety of ways: object making, installation, site-based and/or time-based approaches. Research and writing are emphasized. Readings, slide presentations, discussions and critiques help provide context and vocabulary for student development.

**Prerequisite:** ART 30001 and ARTS 24051; and ARTS 34051 or ARTS 34052 or ARTS 34053.

**Schedule Type:** Studio

**Contact Hours:** 6 other

**Grade Mode:** Standard Letter

**ARTS 44060 ADVANCED PAINTING: PRACTICE AND THEORY 3 Credit Hours**

(Repeatable for credit) Advanced painting course with an emphasis on pursuing individually conceived problems in close consultation with faculty.

**Prerequisite:** ART 30001; and ARTS 24060 or ARTS 34061; and ARTS 34060 or ARTS 34062 or ARTS 34063.

**Schedule Type:** Studio

**Contact Hours:** 6 other

**Grade Mode:** Standard Letter

**ARTS 44070 DIGITAL FABRICATION IN STUDIO ART 3 Credit Hours**

(Slashed with ARTS 54070) This course is an introduction to digital fabrication technologies as they relate to a studio practice. Mastery of software skills enables one to better explore object-making as a medium of personal expression. In addition to technical skills, the course will introduce relationships between form, subject matter, and content. Projects will include technical and conceptual problem solving, design lessons, object making and short student lead initiatives to connect to maker spaces and industries that can support future making. Instructor facilitated discussions between students will form a community of mutual learning.

**Prerequisite:** None.

**Schedule Type:** Studio

**Contact Hours:** 6 other

**Grade Mode:** Standard Letter

**ARTS 44096 INDIVIDUAL STUDY: STUDIO ART 1-6 Credit Hours**

(Repeatable for credit) Additional study in area of student's choice in consultation with advisor.

**Prerequisite:** ART 30001; and a major in Studio Art; and special approval.

**Schedule Type:** Individual Investigation

**Contact Hours:** 2-12 other

**Grade Mode:** Standard Letter

**ARTS 44098 RESEARCH IN STUDIO ART (ELR) 1-3 Credit Hours**

(Repeatable for credit) Studio research in the visual arts.

**Prerequisite:** Junior or senior standing.

**Schedule Type:** Research

**Contact Hours:** 3-9 other

**Grade Mode:** Standard Letter-IP

**Attributes:** Experiential Learning Requirement

**ARTS 44192 INTERNSHIP OR PRACTICUM IN STUDIO ART (ELR) 1-6 Credit Hours**

(Repeatable for credit) (Slashed with ARTS 54192) An undergraduate, experience-based learning activity carried out in a visual arts setting. Emphasis is on the goals of connecting ideas, concepts, and skills developed in coursework to applications in new or different contexts, demonstrating how this experience has broadened students' understanding of their discipline, and reflection on the significance of the experience.

**Prerequisite:** A major in the School of Art; junior or senior standing; and special approval of faculty sponsor.

**Schedule Type:** Practical Experience

**Contact Hours:** 3-18 other

**Grade Mode:** Standard Letter-IP

**Attributes:** Experiential Learning Requirement

**ARTS 45080 KENT BLOSSOM ART 1-6 Credit Hours**

(Repeatable for credit) (Slashed with ARTS 55080) Studio exploration of selected concepts in studio art: painting; drawing; sculpture and expanded media; print media and photography; ceramics; glass; jewelry, metals and enameling; textiles. Content varies with each section offered.

**Prerequisite:** Special approval.

**Schedule Type:** Studio

**Contact Hours:** 2-12 other

**Grade Mode:** Standard Letter-IP

**ARTS 45092 FIELD EXPERIENCE: TRAVEL STUDY IN STUDIO ART (ELR) 1-3 Credit Hours**

(Repeatable for credit) (Slashed with ARTS 55092) Travel-based study and field experience in studio art disciplines at a site at or away from Kent State University.

**Prerequisite:** Major in Studio Art; and special approval.

**Schedule Type:** Field Experience

**Contact Hours:** 3-9 other

**Grade Mode:** Satisfactory/Unsatisfactory

**Attributes:** Experiential Learning Requirement

**ARTS 45095 SPECIAL TOPICS: STUDIO ART 1-6 Credit Hours**

(Repeatable for credit) (Cross-listed with ARTS 55095) Specialized courses in studio art that focus on specific techniques and media.

**Prerequisite:** Special approval.

**Schedule Type:** Studio

**Contact Hours:** 2-12 other

**Grade Mode:** Standard Letter

**ARTS 45098 SENIOR THESIS RESEARCH AND PROPOSAL (ELR) 1 Credit Hour**

(Repeatable for credit) Preparatory course, which acts as an exploratory period for students to develop their ideas - conceptually, thematically and materially - through research, writing and physical material studies. Upon successful completion, students may continue with ARTS 45099.

**Prerequisite:** Major in Studio Art; senior standing; and special approval.

**Schedule Type:** Research

**Contact Hours:** 1.6 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**Attributes:** Experiential Learning Requirement

**ARTS 45099 SENIOR THESIS EXHIBITION (ELR) 3 Credit Hours**

The course prepares students for the challenges of a creative professional practice in their chosen discipline. As the culmination of undergraduate studies, the course serves as a capstone experience for students in their chosen concentration. Provides students an opportunity to independently develop and create a body of work for exhibition and oral review with faculty. Requires the completion of an undergraduate thesis and professional caliber photo documentation of the exhibition.

**Prerequisite:** ART 30001; and special approval.

**Schedule Type:** Project or Capstone

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter-IP

**Attributes:** Experiential Learning Requirement

**ARTS 45300 TEXTILES: JACQUARD WEAVING 3 Credit Hours**

(Repeatable for maximum 6 credit hours) (Slashed with ARTS 55300) Introduction to digital design and production of jacquard woven cloth on state-of-the-art TC1 hand looms. The use of Pointcarré®, a specialized weave software and Photoshop® provides a foundation of professional design knowledge for application in a studio or industry context. Historic and contemporary examples are studied as a foundation to enhance individual exploration of this distinctive woven language for art and design.

**Prerequisite:** ARTS 35350.

**Schedule Type:** Studio

**Contact Hours:** 6 other

**Grade Mode:** Standard Letter

**ARTS 45301 TEXTILES: ADVANCED STUDIO 3 Credit Hours**

Structured time for individual investigations in textiles. Emphasis on self-designed study. Bi-weekly presentations of contemporary work in textiles and weekly discussions or critiques with open studio.

**Prerequisite:** ART 30001; and special approval.

**Schedule Type:** Studio

**Contact Hours:** 6 other

**Grade Mode:** Standard Letter

**ARTS 45304 TEXTILES: PICTORIAL WEAVING 3 Credit Hours**

(Slashed with ARTS 55304) Introduction to a range of weaving processes traditionally associated with the creation of figured or pictorial cloth. Techniques such as warp painting, supplementary weft and warp, pick-up doubleweave and tapestry are explored as a means of creating a well-composed art cloth. Textile history is presented as an important resource for the development of woven studies and individually conceived projects.

**Prerequisite:** Special approval.

**Schedule Type:** Studio

**Contact Hours:** 6 other

**Grade Mode:** Standard Letter

**ARTS 45307 TEXTILES: WEAVING AND COLOR 3 Credit Hours**

(Slashed with ARTS 55307) This course will provide students with an opportunity to explore numerous techniques that emphasize the interaction of color in relation to the unique interlacement process of weaving. Use of different looms (including the floor and frame) will provide the means to integrate color with patterns and image in the connection of warp and weft. Immersion dyeing will be introduced along with specialized direct dye application methods.

**Prerequisite:** Special approval.

**Schedule Type:** Studio

**Contact Hours:** 6 other

**Grade Mode:** Standard Letter

**ARTS 45400 ADVANCED CERAMICS 3 Credit Hours**

(Repeatable for credit) Individual problems in ceramics.

**Prerequisite:** ART 30001, ARTS 35400 and ARTS 35401.

**Schedule Type:** Studio

**Contact Hours:** 6 other

**Grade Mode:** Standard Letter

**ARTS 45600 ADVANCED GLASS WORKING 3 Credit Hours**

(Repeatable for credit) Individual exploration of sculptural and hot glass techniques. Design, form, content and execution strongly emphasized. Introduction to studio facility design, construction and maintenance.

**Prerequisite:** ART 30001, ARTS 35603 and ARTS 35604.

**Schedule Type:** Studio

**Contact Hours:** 5 other

**Grade Mode:** Standard Letter

**ARTS 45700 DESIGN AND PRODUCTION 3 Credit Hours**

Course prepares students to enter the marketplace by examining production processes for creating multiples, industrial applications and marketing. Traditional rendering techniques are taught as a method for communicating with clientele in the custom design market. Design skills are emphasized.

**Prerequisite:** ARTS 35700 and ARTS 35701.

**Schedule Type:** Studio

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**ARTS 45701 TABLEWARE 3 Credit Hours**

Course explores forms made for the table such as flatware, serving sets and containers. Traditional and experimental approaches are examined.

**Prerequisite:** ART 30001, ARTS 35700 and ARTS 35701.

**Schedule Type:** Studio

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**ARTS 45702 ADVANCED ENAMELING 3 Credit Hours**

Course offers advanced vitreous enameling techniques on two- and three-dimensional surfaces. Conceptual development and design skills are emphasized. To gain a deeper understanding of the subject, historical and contemporary works are viewed and discussed.

**Prerequisite:** ART 30001 and ARTS 35702.

**Schedule Type:** Studio

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**ARTS 45704 ADVANCED STUDIO JEWELRY METALS ENAMELING 3 Credit Hours**

(Repeatable for maximum 9 credit hours) Course offers structured time for individual investigations in jewelry, metalsmithing and enameling. Emphasis on self-directed study with frequent critiques and technical demos as needed. Regular viewing and discussion of historical and contemporary works.

**Prerequisite:** ART 30001, ARTS 35700 and ARTS 35701; and senior standing.

**Schedule Type:** Studio

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**ARTS 45705 CAD FOR JEWELRY 3 Credit Hours**

(Slashed with ARTS 55705) Students develop a set of comprehensive computer-aided design (CAD) skills to be utilized in a variety of studies such as sculpture design, jewelry making and many others. CAD skills are developed through the investigation of laser cutting, 3D modeling and project planning, and 3D printing. Mastery of these techniques enable students to better explore object-making as a medium of personal expression. Although there are many technical components to learn, the instructor also focuses on the relationship between form, subject matter and content. Software covered in this class includes Rhinoceros (3D modeling), Flamingo (endering), Adobe Illustrator (vector drawing) and Cubify (3D printing).

**Prerequisite:** ART 30001; and ARTS 25700 or ARTS 25701.

**Schedule Type:** Studio

**Contact Hours:** 6 other

**Grade Mode:** Standard Letter

**ARTS 54002 ADVANCED DRAWING FOR ALL DISCIPLINES 3 Credit Hours**

(Repeatable for credit) (Slashed with ARTS 44002) An advanced drawing course, open to all studio disciplines, with an emphasis on students pursuing individually conceived problems in close consultation one-on-one with faculty.

**Prerequisite:** Graduate standing.

**Schedule Type:** Studio

**Contact Hours:** 6 other

**Grade Mode:** Standard Letter

**ARTS 54011 DIGITAL FINE ART PHOTOGRAPHY 3 Credit Hours**

(Slashed with ARTS 44011) Students develop their technical and conceptual skills in fine art digital photography, and develop a contemporary approach to working with the medium. Students explore various photographic and digital techniques and form an awareness of such techniques in contemporary photography.

**Prerequisite:** Graduate standing.

**Schedule Type:** Studio

**Contact Hours:** 5 other

**Grade Mode:** Standard Letter

**ARTS 54045 ART OF THE BOOK 3 Credit Hours**

(Slashed with ARTS 44045) An introduction to artist's books. A variety of binding methods and strategies for creating art through alternative and traditional book forms are introduced. Students complete projects and develop a personal visual language through the book form.

**Prerequisite:** Master of Arts degree or Master of Fine Arts degree in the School of Art.

**Schedule Type:** Studio

**Contact Hours:** 6 other

**Grade Mode:** Standard Letter

**ARTS 54070 DIGITAL FABRICATION IN STUDIO ART 3 Credit Hours**

(Slashed with ARTS 44070) This course is an introduction to digital fabrication technologies as they relate to a studio practice. Mastery of software skills enables one to better explore object-making as a medium of personal expression. In addition to technical skills, the course will introduce relationships between form, subject matter, and content. Projects will include technical and conceptual problem solving, design lessons, object making, and short student lead initiatives to connect to makerspaces and industries that can support future making. Instructor facilitated discussions between students will form a community of mutual learning.

**Prerequisite:** Graduate standing.

**Schedule Type:** Studio

**Contact Hours:** 6 other

**Grade Mode:** Standard Letter

**ARTS 54091 VARIABLE CONTENT SEMINAR: STUDIO ART 3 Credit Hours**

(Repeatable for maximum 9 credit hours) Contemporary issues related to visual arts explored through presentation, lecture and discussion. Guest speakers augment staff.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Seminar

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**ARTS 54192 INTERNSHIP OR PRACTICUM IN STUDIO ART 1-6 Credit Hours**

(Repeatable for credit) (Slashed with ARTS 44192) An undergraduate, experience-based learning activity carried out in a visual arts setting. Emphasis is on the goals of connecting ideas, concepts, and skills developed in coursework to applications in new or different contexts, demonstrating how this experience has broadened students' understanding of their discipline, and reflection on the significance of the experience.

**Prerequisite:** A major in the School of Art; and graduate standing; and special approval.

**Schedule Type:** Practical Experience

**Contact Hours:** 3-18 other

**Grade Mode:** Standard Letter-IP

**ARTS 55080 KENT BLOSSOM ART 1-6 Credit Hours**

(Repeatable for credit) (Slashed with ARTS 45080) Studio exploration in the visual arts, including ceramics, drawing, glass, jewelry-metals-enameling, painting, print media and photography, sculpture and expanded media and textiles.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Studio

**Contact Hours:** 2-12 other

**Grade Mode:** Standard Letter-IP

**ARTS 55092 FIELD EXPERIENCE: TRAVEL STUDIES IN STUDIO ART 1-3 Credit Hours**

(Repeatable for credit) (Cross-listed with ARTS 45092) Travel-based field study experience in studio art disciplines to and at a site or sites away from Kent State University.

**Prerequisite:** Major in Studio Art; and graduate standing; and special approval.

**Schedule Type:** Field Experience

**Contact Hours:** 3-9 other

**Grade Mode:** Satisfactory/Unsatisfactory



**ARTS 55095 STUDIO ART: SPECIAL TOPICS 1-6 Credit Hours**  
(Repeatable for credit) (Cross-listed with ARTS 45095) Specialized courses in studio art that focus on specific techniques and media.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Studio

**Contact Hours:** 2-12 other

**Grade Mode:** Standard Letter

**ARTS 55300 TEXTILES: JACQUARD WEAVING 3 Credit Hours**  
(Repeatable for maximum 6 credit hours) (Slashed with ARTS 45300) Introduction to digital design and production of jacquard woven cloth on state-of-the-art TC1 hand looms. The use of Pointcarré®, a specialized weave software and Photoshop® provides a foundation of professional design knowledge for application in a studio or industry context. Historic and contemporary examples are studied as a foundation to enhance individual exploration of this distinctive woven language for art and design.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Studio

**Contact Hours:** 6 other

**Grade Mode:** Standard Letter

**ARTS 55304 TEXTILES: PICTORIAL WEAVING 3 Credit Hours**  
(Slashed with ARTS 45304) Introduction to a range of weaving processes traditionally associated with the creation of figured or pictorial cloth. Techniques such as warp painting, supplementary weft and warp, pick-up doubleweave and tapestry are explored as a means of creating a well-composed art cloth. Textile history is presented as an important resource for the development of woven studies and individually conceived projects.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Studio

**Contact Hours:** 6 other

**Grade Mode:** Standard Letter

**ARTS 55307 TEXTILES: WEAVING AND COLOR 3 Credit Hours**  
(Slashed with ARTS 45307) This course will provide students with an opportunity to explore numerous techniques that emphasize the interaction of color in relation to the unique interlacement process of weaving. The use of different looms (including the floor and frame) will provide the means to integrate color with patterns and image in the connection of warp and weft. Immersion dyeing will be introduced along with specialized direct dye application, methods.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Studio

**Contact Hours:** 6 other

**Grade Mode:** Standard Letter

**ARTS 55705 CAD FOR JEWELRY 3 Credit Hours**  
(Slashed with ARTS 45705) Students develop a set of comprehensive computer-aided design (CAD) skills to be utilized in a variety of studies such as sculpture design, jewelry making and many others. CAD skills are developed through the investigation of laser cutting, 3D modeling and project planning, and 3D printing. Mastery of these techniques enable students to better explore object-making as a medium of personal expression. Although there are many technical components to learn, the instructor also focuses on the relationship between form, subject matter and content. Software covered in this class includes Rhinoceros (3D modeling), Flamingo (endering), Adobe Illustrator (vector drawing) and Cubify (3D printing).

**Prerequisite:** Graduate standing.

**Schedule Type:** Studio

**Contact Hours:** 6 other

**Grade Mode:** Standard Letter

**ARTS 64000 GRADUATE SEMINAR I: STUDIO ART 3 Credit Hours**  
(Repeatable for credit) This graduate seminar intends to bring together graduate students working across disciplines to facilitate their participation in creating a framework for understanding the practice of art-making in relation to the contemporary global and cultural terrain.

**Prerequisite:** Graduate standing.

**Schedule Type:** Seminar

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ARTS 64001 GRADUATE SEMINAR II: STUDIO ART 3 Credit Hours**  
(Repeatable for credit) This graduate seminar is an advanced course which intends to bring together graduate students working across disciplines to facilitate their participation in creating a framework for understanding the practice of art-making in relation to the contemporary global and cultural terrain.

**Prerequisite:** ARTS 64000; and graduate standing.

**Schedule Type:** Seminar

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ARTS 64040 GRADUATE STUDIO: PRINT MEDIA AND PHOTOGRAPHY I 1-9 Credit Hours**

(Repeatable for credit) Research-based, hands-on studio course providing a context for individual creative projects in the Print Media and Photography concentration.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Studio

**Contact Hours:** 2-18 other

**Grade Mode:** Standard Letter-IP

**ARTS 64041 GRADUATE STUDIO: PRINT MEDIA AND PHOTOGRAPHY II 1-9 Credit Hours**

(Repeatable for credit) Advance research-based, hands-on studio course providing a context for individual creative projects in the Print Media and Photography concentration.

**Prerequisite:** ARTS 64040; and graduate standing.

**Schedule Type:** Studio

**Contact Hours:** 2-18 other

**Grade Mode:** Standard Letter-IP

**ARTS 64050 GRADUATE STUDIO: SCULPTURE AND EXPANDED MEDIA I 1-9 Credit Hours**

(Repeatable for credit) Research-based, hands-on studio course providing a context for individual creative projects in the Sculpture and Expanded Media concentration.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Studio

**Contact Hours:** 2-18 other

**Grade Mode:** Standard Letter-IP

**ARTS 64051 GRADUATE STUDIO: SCULPTURE AND EXPANDED MEDIA II 1-9 Credit Hours**

(Repeatable for credit) Advanced research-based, hands-on studio course providing a context for individual creative projects in the Sculpture and Expanded Media concentration.

**Prerequisite:** ARTS 64050; and graduate standing.

**Schedule Type:** Studio

**Contact Hours:** 2-18 other

**Grade Mode:** Standard Letter-IP



**ARTS 64060 GRADUATE STUDIO: DRAWING AND PAINTING I 1-9****Credit Hours**

(Repeatable for credit) Research-based, hands-on studio course providing a context for individual creative projects in the Drawing and Painting concentration.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Studio

**Contact Hours:** 2-18 other

**Grade Mode:** Standard Letter-IP

**ARTS 64061 GRADUATE STUDIO: DRAWING AND PAINTING II 1-9****Credit Hours**

(Repeatable for credit) Advanced research-based, hands-on studio course providing a context for individual creative projects in the Drawing or Painting concentration.

**Prerequisite:** ARTS 64060; and graduate standing.

**Schedule Type:** Studio

**Contact Hours:** 2-18 other

**Grade Mode:** Standard Letter-IP

**ARTS 64096 INDIVIDUAL INVESTIGATION STUDIO ART 1-3 Credit Hours**

(Repeatable for credit) Independent study in studio art.

**Prerequisite:** Master of Art or Master of Fine Arts degree in the School of Art; and graduate standing; and special approval.

**Schedule Type:** Individual Investigation

**Contact Hours:** 3-9 other

**Grade Mode:** Standard Letter-IP

**ARTS 64098 RESEARCH IN STUDIO ART 1-15 Credit Hours**

(Repeatable for credit) Studio research in the visual arts.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Research

**Contact Hours:** 1-15 other

**Grade Mode:** Standard Letter

**ARTS 65095 STUDIO ART: ADVANCED SPECIAL TOPICS 1-6 Credit Hours**

(Repeatable for credit) Advanced specialized courses in studio art that focus on specific techniques and media.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Studio

**Contact Hours:** 2-12 other

**Grade Mode:** Standard Letter

**ARTS 65300 GRADUATE STUDIO: TEXTILES I 1-9 Credit Hours**

(Repeatable for credit) Research-based, hands-on studio course providing a context for individual creative projects in the Textiles concentration.

**Prerequisite:** Graduate standing.

**Schedule Type:** Studio

**Contact Hours:** 2-18 other

**Grade Mode:** Standard Letter-IP

**ARTS 65301 GRADUATE STUDIO: TEXTILES II 1-9 Credit Hours**

(Repeatable for credit) Advanced research-based, hands-on studio course providing a context for individual creative projects and cultivating a personal direction in the Textiles concentration.

**Prerequisite:** ARTS 65300; and graduate standing; and special approval.

**Schedule Type:** Studio

**Contact Hours:** 2-18 other

**Grade Mode:** Standard Letter-IP

**ARTS 65400 GRADUATE STUDIO: CERAMICS I 1-9 Credit Hours**

(Repeatable for credit) Research-based, hands-on studio course providing a context for individual creative projects in the Ceramics concentration.

**Prerequisite:** Graduate standing.

**Schedule Type:** Studio

**Contact Hours:** 2-18 other

**Grade Mode:** Standard Letter-IP

**ARTS 65401 GRADUATE STUDIO: CERAMICS II 1-9 Credit Hours**

(Repeatable) Advanced research-based, hands-on studio course providing a context for individual creative projects and cultivating a personal direction in the Ceramics concentration.

**Prerequisite:** ARTS 65400; and graduate standing; and special approval.

**Schedule Type:** Studio

**Contact Hours:** 2-18 other

**Grade Mode:** Standard Letter-IP

**ARTS 65600 GRADUATE STUDIO: GLASS I 1-9 Credit Hours**

(Repeatable for credit) Research-based, hands-on studio course providing a context for individual creative projects in the Glass concentration.

**Prerequisite:** Graduate standing.

**Schedule Type:** Studio

**Contact Hours:** 2-18 other

**Grade Mode:** Standard Letter-IP

**ARTS 65601 GRADUATE STUDIO: GLASS II 1-9 Credit Hours**

(Repeatable for credit) Advanced research-based, hands-on studio course providing a context for individual creative projects and cultivating a personal direction in the Glass concentration.

**Prerequisite:** ARTS 65600; and graduate standing; and special approval.

**Schedule Type:** Studio

**Contact Hours:** 2-18 other

**Grade Mode:** Standard Letter-IP

**ARTS 65700 GRADUATE STUDIO: JEWELRY, METALS, ENAMELING I 1-9 Credit Hours**

(Repeatable for credit) Advanced research-based, hands-on studio course providing a context for individual creative projects and cultivating a personal direction in the Jewelry, Metals, Enameling concentration.

**Prerequisite:** Graduate standing.

**Schedule Type:** Studio

**Contact Hours:** 2-18 other

**Grade Mode:** Standard Letter-IP

**ARTS 65701 GRADUATE STUDIO: JEWELRY, METALS, ENAMELING II 1-9 Credit Hours**

(Repeatable for credit) Advanced research-based, hands-on studio course providing a context for individual creative projects and cultivating a personal direction in the Jewelry, Metals, Enameling concentration.

**Prerequisite:** ARTS 65700; and graduate standing.

**Schedule Type:** Studio

**Contact Hours:** 2-18 other

**Grade Mode:** Standard Letter-IP

**ARTS 65991 SEMINAR IN STUDIO ART 1-3 Credit Hours**

(Repeatable for credit) Contemporary issues and professional concerns in studio art explored through presentations, lectures, and discussion.

Graduate faculty and guest speakers.

**Prerequisite:** Graduate standing.

**Schedule Type:** Seminar

**Contact Hours:** 1-3 other

**Grade Mode:** Standard Letter

## Arts and Sciences (AS)

### AS 10095 SPECIAL TOPICS 1-5 Credit Hours

(Repeatable for credit) This program, administered by the dean, is intended to encourage interdisciplinary study to cover areas not treated adequately in traditional coursework and to make available promptly the new and significant experience of the faculty.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 1-5 lecture

**Grade Mode:** Standard Letter

### AS 10096 SCIENCE EXPERIENCE 1 Credit Hour

Students will gain experience in research methods via participation in mentored hands-on science research projects. Each student will work on an individual basis in consultation with their assigned research mentor. Laboratory safety training is provided and required for the projects. Students must have completed or be co-enrolled in at least one college level (or advanced placement) class in a relevant STEM discipline.

**Prerequisite:** Special approval.

**Schedule Type:** Laboratory

**Contact Hours:** 3 lab

**Grade Mode:** Standard Letter-IP

### AS 20071 INTRODUCTION TO GENDER AND SEXUALITY STUDIES 3 Credit Hours

Provides an introduction to the interdisciplinary study of gender and sexuality, with particular focus on the tenants of the field (e.g., intersectionality, anti-oppression, social justice).

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

### AS 20095 SPECIAL TOPICS 1-5 Credit Hours

(Repeatable for credit) This program, administered by the dean, is intended to encourage interdisciplinary study, to cover areas not treated adequately in traditional coursework and to make available promptly the new and significant experience of the faculty.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 1-5 lecture

**Grade Mode:** Standard Letter

### AS 30092 INTERNSHIP (ELR) 1-12 Credit Hours

(Repeatable for a maximum of 12 credit hours) Students participate in internships under the direction of a faculty member.

**Prerequisite:** Special approval.

**Schedule Type:** Practical Experience

**Contact Hours:** 3-36 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**Attributes:** Experiential Learning Requirement

### AS 30095 SPECIAL TOPICS 1-5 Credit Hours

(Repeatable for credit) This program, administered by the dean, is intended to encourage interdisciplinary study to cover areas not treated adequately in traditional coursework and to make available promptly the new and significant experience of the faculty.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 1-5 lecture

**Grade Mode:** Standard Letter

### AS 30171 THEORIES OF GENDER AND SEXUALITY 3 Credit Hours

Provides students the opportunity to explore in finer detail the theories and approaches used in the study of gender and sexuality (including feminisms, queer theory, critical theories, intersectionality, anti-oppression, social justice), and to address the influence of such theoretical approaches in further research on the subjects of gender and sexuality and by informing social change and deliberations by individuals and movements concerning gender and sexuality.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

### AS 30195 STUDY ABROAD: SPECIAL TOPICS (ELR) 1-3 Credit Hours

(Repeatable for credit) This course may be offered in conjunction with an academic study abroad opportunity.

**Prerequisite:** Special approval.

**Schedule Type:** Field Experience

**Contact Hours:** 1-3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Experiential Learning Requirement

### AS 30196 INDIVIDUAL INVESTIGATION 1-3 Credit Hours

(Repeatable for credit) Registration requires prior approval from the College of Arts and Sciences office.

**Prerequisite:** Special approval.

**Schedule Type:** Individual Investigation

**Contact Hours:** 1-3 other

**Grade Mode:** Standard Letter

### AS 30295 STUDY AWAY: SPECIAL TOPICS (ELR) 1-3 Credit Hours

(Repeatable for credit) This course may be offered in conjunction with an academic domestic study away opportunity.

**Prerequisite:** Special approval.

**Schedule Type:** Field Experience

**Contact Hours:** 3-9 other

**Grade Mode:** Standard Letter

**Attributes:** Experiential Learning Requirement

### AS 30798 GENDER AND SEXUALITY RESEARCH FORUM (ELR) 3 Credit Hours

Allows students to do research in areas of gender and sexuality that connects to their own interests, which will be presented in public settings such as panels and presentations.

**Prerequisite:** None.

**Schedule Type:** Lecture, Research

**Contact Hours:** 1 lecture, 2 other

**Grade Mode:** Standard Letter

**Attributes:** Experiential Learning Requirement

### AS 40095 SPECIAL TOPICS 1-5 Credit Hours

(Repeatable for credit) (Cross-listed with AS 50095 and AS 70095)

This program, administered by the dean, is intended to encourage interdisciplinary study, to cover areas not treated adequately in traditional coursework and to make available promptly the new and significant experience of the faculty.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**AS 41099 CAPSTONE IN GENDER AND SEXUALITY STUDIES (ELR) 3 Credit Hours**

Students will be expected to design and implement an individualized exploration that demonstrates the interactions of theory and application, ideas and practice, and is reflective of the tenets of the interdisciplinary field of gender and sexuality.

**Prerequisite:** None.

**Schedule Type:** Lecture, Research

**Contact Hours:** 1 lecture, 2 other

**Grade Mode:** Standard Letter

**Attributes:** Experiential Learning Requirement

**AS 43001 LEGAL INFORMATION SOURCES AND SERVICES 3 Credit Hours**

(Cross-listed with AS 53001 and AS 73001 and LIS 60619 and LIS 80619) Fundamentals of legal research methods and major sources of American legal literature in print and electronic formats as used in other disciplines. Students learn how to formulate a research plan based on legal analysis of issues using relevant, authoritative legal resources.

**Prerequisite:** Senior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**AS 50095 SPECIAL TOPICS 1-5 Credit Hours**

(Repeatable for credit) (Cross-listed with AS 40095 and AS 70095) Topic to be announced in the schedule of classes booklet. Repeated registration permitted when content varies.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 1-5 lecture

**Grade Mode:** Standard Letter

**AS 50096 INDIVIDUAL INVESTIGATION 1-6 Credit Hours**

(Repeatable for credit) Pursuit of a subject matter beyond normal course coverage, supervised by a graduate faculty member.

**Prerequisite:** Graduate standing.

**Schedule Type:** Individual Investigation

**Contact Hours:** 1-6 other

**Grade Mode:** Standard Letter

**AS 53001 LEGAL INFORMATION SOURCES AND SERVICES 3 Credit Hours**

(Cross-listed with AS 43001 and AS 73001 and LIS 60619 and LIS 80619) Fundamentals of legal research methods and major sources of American legal literature in print and electronic formats as used in other disciplines. Students learn how to formulate a research plan based on legal analysis of issues using relevant, authoritative legal resources.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**AS 60092 INTERNSHIP 1-6 Credit Hours**

(Repeatable credit) Students participate in internships under the direction of a faculty member.

**Prerequisite:** Special approval.

**Schedule Type:** Practical Experience

**Contact Hours:** 3-18 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**AS 61000 METHODS AND APPROACHES TO MULTIDISCIPLINARY STUDIES 3 Credit Hours**

Methods and approaches to graduate-level multidisciplinary studies.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**AS 61001 LIBERAL STUDIES RESEARCH PAPER 1-3 Credit Hours**

Learning to write a graduate-level research paper.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Seminar

**Contact Hours:** 1-3 lecture

**Grade Mode:** Standard Letter-IP

**AS 61095 LIBERAL STUDIES SEMINAR 3 Credit Hours**

(Repeatable for credit) An interdisciplinary seminar designed for candidates in the liberal studies program. Topics will vary.

**Prerequisite:** None.

**Schedule Type:** Seminar

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**AS 61098 LIBERAL STUDIES ESSAY 3 Credit Hours**

(Repeatable for credit) The preparation of an essay of approximately 50 pages on a topic related to the student's program of study for the Master of Liberal Studies degree.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Research

**Contact Hours:** 3 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**AS 70095 SPECIAL TOPICS 1-5 Credit Hours**

(Repeatable for credit) (Cross-listed with AS 40095 and AS 50095) Topic to be announced in the schedule of classes booklet.

**Prerequisite:** Doctoral standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 1-5 lecture

**Grade Mode:** Standard Letter

**AS 70096 INDIVIDUAL INVESTIGATION 1-6 Credit Hours**

(Repeatable for credit) Pursuit of a subject matter beyond normal course coverage, supervised by a graduate faculty member.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Individual Investigation

**Contact Hours:** 1-6 other

**Grade Mode:** Standard Letter

**AS 73001 LEGAL INFORMATION SOURCES AND SERVICES 3 Credit Hours**

(Cross-listed with LIS 60619 and LIS 80619) (Slashed with AS 43001 and AS 53001) Fundamentals of legal research methods and major sources of American legal literature in print and electronic formats as used in other disciplines. Students learn how to formulate a research plan based on legal analysis of issues using relevant, authoritative legal resources.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

## ASL English Interpreting (ASEI)

### ASEI 30095 SPECIAL TOPICS IN AMERICAN SIGN LANGUAGE-ENGLISH INTERPRETING 1-4 Credit Hours

(Repeatable for credit) Special topics courses to be offered on as-needed basis when the content cannot be covered in the traditional curriculum.

**Prerequisite:** ASL 29201 and ASEI 43102; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 1-4 lecture

**Grade Mode:** Standard Letter

### ASEI 43100 SURVEY OF THE INTERPRETING PROFESSION (WIC) 3 Credit Hours

(Slashed with SPED 53100) Introduction to the field of ASL-English interpreting. The following will be discussed: the history of the interpreting profession; the varied roles and responsibilities of interpreters; issues & concerns facing interpreters; legal mandates and constraints governing the provision of interpreters; ethical guidelines and their application to educational environments. Since interpreters are expected to be fluent in both English and ASL, this course will strive to enhance students' facility with both languages.

**Prerequisite:** Minimum C grade in ASL 19202.

**Pre/corequisite:** Minimum C grade in ASL 29201.

**Corequisite:** ASEI 43106 and SPED 43309.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Writing Intensive Course

### ASEI 43102 INTERPRETING PROCESSES I 3 Credit Hours

(Slashed with SPED 53102) Beginning level interpreting course that examines the models of interpreting and their application to practice. Consecutive and simultaneous interpreting strategies are used to develop processing skills for both English to ASL and ASL to English interpretations. Samples of narrative genre are the texts used for interpretations as students examine the linguistic and cultural differences between ASL and English narratives.

**Prerequisite:** ASL 29201 and ASEI 43100; and ASL English Interpreting (ASEI) major.

**Pre/corequisite:** ASL 29202.

**Corequisite:** ASL 49401.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

### ASEI 43103 INTERPRETING PROCESSES II 3 Credit Hours

(Slashed with SPED 53103) Intermediate level interpreting course that challenges students to interpret the more complex genres including expository, procedural, and argumentative texts. Students will study and apply contextualization strategies. Discourse that is common to both the adult deaf community and educational settings will be interpreted and transliterated. There will be clinical application hours that students will need to accrue in this course.

**Prerequisite:** Minimum C grade in the following courses ASL 29202 and ASEI 43102; and ASL English Interpreting (ASEI) major; and admission to professional phase.

**Pre/corequisite:** Minimum C grade in ASL 39201.

**Corequisite:** ASEI 43111 and SPED 43310.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

### ASEI 43104 INTERPRETING PROCESSES III 3 Credit Hours

(Slashed with SPED 53104) Advanced level interpreting course focused on enhancing students' English to ASL and ASL to English skills in a variety of settings. Complex texts are selected from a variety of disciplines from both community and educational settings. Students build on previously developed self-assessment skills to create detailed and analytical diagnostic charts of their interpreted work. There will be clinical application hours that students will need to accrue in this course.

**Prerequisite:** Minimum C grade in the following courses ASL 39202, ASEI 43107 and SPED 43092; and ASL English Interpreting (ASEI) major; and admission to professional phase.

**Pre/corequisite:** Minimum C grade in ASEI 43112.

**Corequisite:** ASL 49108.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

### ASEI 43105 TRANSLITERATING 3 Credit Hours

(Slashed with SPED 53105) Receptive and expressive use of English-based sign language systems; ASL root words, prefix suffix use, simultaneous speaking and signing. Explanation and demonstration of Cued speech; exploration of the research related to individuals who use Cued speech.

**Prerequisite:** ASEI 43103 and ASL 39201; and ASL English Interpreting (ASEI) major; and admission to professional phase.

**Pre/corequisite:** ASL 39202.

**Corequisite:** ASEI 43107, ASEI 43110 and SPED 43092.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

### ASEI 43106 SCHOOL SETTING INTERPRETING 3 Credit Hours

Issues, challenges, roles, responsibilities, and ethics of classroom-based educational interpreting are explored. Students are exposed to the variety of classroom designs where interpreters work such as mainstreaming, inclusion, resource room, and self-contained classrooms. K-12 settings place additional expectations for interpreter participation including IEP meetings, counseling, school assemblies and performing arts presentations.

**Prerequisite:** ASL 19202; and American Sign Language/English Interpreting [ASEI] major; and special approval.

**Pre/corequisite:** ASL 29201.

**Corequisite:** ASEI 43100.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

### ASEI 43107 COMMUNITY SETTING INTERPRETING 3 Credit Hours

(Slashed with SPED 53107) This course explores the various venues that interpreters can work in the community. Emphasis will be given to the development of specialized vocabulary. Students participate in mock interpreting situations common to community interpreting in order to identify ethical dilemmas, demands and controls.

**Prerequisite:** ASEI 43103, ASEI 43111, ASL 39201 and SPED 43310; and ASL English Interpreting (ASEI) major; and admission to professional phase.

**Pre/corequisite:** ASL 39202.

**Corequisite:** ASEI 43110, ASEI 43105 and SPED 43092.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ASEI 43108 MEDICAL INTERPRETING 3 Credit Hours**

(Slashed with SPED 53108) This course provides students with the opportunity to explore medical topics, terminologies, and areas of practice to enable them to more effectively meet the needs of deaf patients in a variety of health care settings. This course is designed to equip students with basic skills and knowledge to meet the demands of this setting. Students in this course will become familiar with body systems structures, functions, and common conditions-diseases affecting these systems. Students will be exposed to a variety of medical protocols, scripts, testing procedures, and areas of medical practice. As a result, students will be able to interpret medical information into ASL appropriate structures. They will specifically be able to apply strategies of depiction and spatial mapping.

**Prerequisite:** Minimum C grade in ASEI 43102 or SPED 53102; and American Sign Language/English Interpreting major.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ASEI 43109 MENTAL HEALTH INTERPRETING 3 Credit Hours**

This course will provide students with a foundation of common diagnoses, mental health professionals and their various roles, common mental health settings interpreters may work, and terminology paired with ASL equivalents. This course will also emphasize the relationship between interpreter and mental health professional, providing skill sets in which to pre-and-post conference to ensure an accurate interpretation is rendered, and the goals of the therapist-professional have been met.

**Prerequisite:** Minimum C grade in ASEI 43103 or SPED 53103; and American Sign Language/English Interpreting major.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ASEI 43110 DISCOURSE ANALYSIS FOR INTERPRETERS 3 Credit Hours**

(Slashed with SPED 53110) This course will explore the field of discourse analysis and its relation to the work of an interpreter. Students will complete the course with an understanding of terminology specific to discourse analysis, a better understanding of one's own discourse style, and a better idea of how English and ASL use various discourse features. These features include the following: Turn-taking, Conversational Repair- false starts, Discourse Markers, Constructing Dialogue & Action, Cohesion, Rhythm, Rhyme, & Repetition.

**Prerequisite:** ASL 39201; and ASEI 43103, ASEI 43111 and SPED 43310; and admission to the professional phase.

**Pre/corequisite:** ASL 39202.

**Corequisite:** ASEI 43105 and ASEI 43107.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ASEI 43111 THE PROFESSIONAL INTERPRETER 3 Credit Hours**

(Slashed with ASEI 53111) Covers current trends in the field regarding situational and ethical issues. Demand-control schema and the RID Code of Professional Conduct are key components of the students' investigation and application. Students receive guidance in preparing for the RID NIC and participate in practicing for the RID performance test.

**Prerequisite:** ASEI 43102 and ASL 49401; and ASL English Interpreting major; and admission to professional phase.

**Pre/corequisite:** ASL 39201.

**Corequisite:** ASEI 43103 and SPED 43310.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ASEI 43112 INTERACTIVE INTERPRETING 3 Credit Hours**

(Slashed with SPED 53112) Guides students through a process of examining the complex nature of interpreting interactive discourse. Discussions will focus on managing this multi-layered process when participants' roles, assumptions, and goals can be congruent or adversarial. Student will learn to navigate contrasting cultural, linguistic, and discourse expectations. This course will present numerous interactive scenarios for students to interpret typical of a variety of settings with different participant configurations.

**Prerequisite:** ASL 29202, ASL 49401, ASEI 43100, ASEI 43102, ASEI 43103, ASEI 43106 and SPED 43309; and ASL English Interpreting major; and admission to professional phase.

**Pre/corequisite:** ASL 39201.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ASEI 43113 ASL TO ENGLISH INTERPRETING PROCESSES 3 Credit Hours**

(Slashed with SPED 53113) Guides students in developing interpreting skills from their L2 (ASL) to their L1 (English). Students will learn strategies for increasing their ASL and English vocabularies for the purposes of understanding equivalents when applying English vocabulary to ASL signs. Students will examine their ability to apply this proficiency to various registers of ASL. Course will also emphasize incorporating Academic English into written scholarly papers to increase students' abilities to apply this to their interpretations.

**Prerequisite:** ASL 29201 and ASEI 43100; and ASL English Interpreting major.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter



**ASEI 43192 ADVANCED PRACTICUM: ASL ENGLISH INTERPRETING (ELR) 9 Credit Hours**

(Repeatable for credit) Field-based practicum experience provides pre-service interpreters with opportunity to learn from currently practicing master educational and-or community interpreters. Students will be placed in education and-or community settings. University supervisor and teacher mentor observe and assess student skill. Students are required to complete Bureau of Criminal Investigation and Identification (BCII) and Federal Bureau of Investigation (FBI) background checks and submit the results to authorized personnel at their assigned school-agency before the first day of the semester in which the internship will take place. Official valid certification of Child Safety Training, approved Basic Life Support, and A.L.I.C.E. Training must be presented to the campus office of clinical experience or designated faculty-staff at Regional campuses before registering for this course. Students must pass the SLPI or ASLPI on or before Oct. 31st the semester prior. Major GPA of 3.000 is required. **Prerequisite:** Minimum B- grade in ASEI 43104; and minimum C grade in ASEI 43112 and ASL 49108; and ASL English Interpreting major; and admission to professional phase; and a 2.750 overall GPA; and special approval.

**Corequisite:** ASEI 49625.

**Schedule Type:** Practical Experience

**Contact Hours:** 27 other

**Grade Mode:** Satisfactory/Unsatisfactory

**Attributes:** Experiential Learning Requirement

**ASEI 49625 INQUIRY SEMINAR FOR ASL-ENGLISH INTERPRETERS 3 Credit Hours**

Final semester course to coincide with the advanced practice. Students present a professional description of their interpreting site analyzing students' needs, school and instructor expectations or barriers, application of the Demand – Control Schema, and ethical challenges. Current research in the field of interpreting is examined and a diagnostic chart of a work sample is created. Students explore the EIPA exam, its theoretical foundations, and participate in practicing for the EIPA. **Prerequisite:** ASL 49108, ASEI 43104 and ASEI 43112; and ASL English Interpreting major; and admission to professional phase.

**Corequisite:** ASEI 43192.

**Schedule Type:** Seminar

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

## Athletic Training (ATTR)

**ATTR 15001 INTRODUCTION TO CLINICAL ATHLETIC TRAINING I 2 Credit Hours**

An overview of the profession of athletic training; including employment opportunities, academic and clinical preparation; and introduction to basic knowledge and skills utilized in the profession. Emphasis on leadership, mentoring, ethics and research from an introductory perspective.

**Prerequisite:** Athletic training major.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 1 lecture, 2 lab

**Grade Mode:** Standard Letter

**ATTR 15002 INTRODUCTION TO SPORTS MEDICINE CAREERS 2 Credit Hours**

An overview of the profession of athletic training as well as other similar sports medicine fields; including employment opportunities, academic preparation and clinical preparation. Emphasis on leadership, mentoring, ethics and research from an introductory perspective.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**ATTR 15011 INTRODUCTION TO CLINICAL ATHLETIC TRAINING II 2 Credit Hours**

Basic concepts and skills related to the professional domains of the athletic training profession including basic modalities and rehabilitation, research, ethics, palpations, and blood borne pathogens. Moderate to advanced Skills training in padding, splinting, wound care, equipment, bracing, tapings, wrappings, spine immobilization, and basic assessment techniques.

**Prerequisite:** Athletic training major.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 1 lecture, 2 lab

**Grade Mode:** Standard Letter

**ATTR 15012 DOCUMENTATION IN HEALTH CARE 2 Credit Hours**

Addresses clinical writing skills associated with documentation in health care. Addresses the legal, ethical, and practical needs for proper documentation in health care. Focus is on reading, writing and interpreting various forms of medical documentation including but not limited to SOAP notes, progress notes, treatment notes, clinical record keeping, and facility records. Electronic medical record techniques and other clinical record methods will be addressed.

**Prerequisite:** Sport medicine major.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**ATTR 15092 PRACTICUM IN ATHLETIC TRAINING I (ELR) 3 Credit Hours**

The study and clinical application of the competencies in athletic training educational domains. Specific emphasis on the introductory cognitive and psychomotor, as well as foundational behaviors of professional practice. Clinical hours and completion of specific competencies are required.

**Prerequisite:** ATTR 15011; and special approval.

**Schedule Type:** Lecture, Practical Experience

**Contact Hours:** 2 lecture, 12 other

**Grade Mode:** Standard Letter-IP

**Attributes:** Experiential Learning Requirement

**ATTR 20001 SOCIOCULTURAL ASPECTS OF HEALTH CARE 3 Credit Hours**

Advanced examination of the sociocultural aspects of healthcare careers. Specific emphasis will be placed of the recognition of diverse patient populations and effectively addressing their unique needs. Cultural competence will be the focus of of the course and will address various aspects of sociocultural diversity; including but not limited to racial, ethnic, religious, socioeconomic, regional beliefs, and alternative approaches to healthcare.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ATTR 25036 RESPONDING TO EMERGENCIES 3 Credit Hours**  
Principles of emergency care including prevention, management, and administrative aspects associated with injury and trauma. Practical competency in emergency care and first aid; American Red Cross Professional Rescuer Certification for CPR and AED.

**Prerequisite:** None.

**Schedule Type:** Laboratory, Lecture, Combined Lecture and Lab

**Contact Hours:** 2 lab, 2 other

**Grade Mode:** Standard Letter

**ATTR 25037 PHYSICAL ASSESSMENT TECHNIQUES AND KINESIOLOGY FOR THE LOWER EXTREMITY AND SPINE 3 Credit Hours**

Anatomical, clinical assessment and kinesiology related to injuries and illnesses common in athletic training and sports medicine. Emphasis on orthopedic assessment and kinesiology concepts of the Lower extremity and spine.

**Prerequisite:** ATTR 25036; and ATTR 25057 or EXSC 25057 or BSCI 11010 or BSCI 21010.

**Schedule Type:** Laboratory, Lecture, Combined Lecture and Lab

**Contact Hours:** 2 lecture, 2 lab

**Grade Mode:** Standard Letter

**ATTR 25038 PHYSICAL ASSESSMENT TECHNIQUES AND KINESIOLOGY FOR THE UPPER EXTREMITY, HEAD AND NECK 3 Credit Hours**

Anatomical, clinical assessment and kinesiology related to injuries and illnesses common in athletic training and sports medicine. Emphasis on orthopedic assessment and kinesiology concepts of the Upper Extremity, Health and neck.

**Prerequisite:** ATTR 25036 and ATTR 25037; and ATTR 25057 or EXSC 25057 or BSCI 11010 or BSCI 21010.

**Schedule Type:** Laboratory, Lecture, Combined Lecture and Lab

**Contact Hours:** 2 lecture, 2 lab

**Grade Mode:** Standard Letter

**ATTR 25057 HUMAN ANATOMY AND PHYSIOLOGY I (KBS) (KLAB) 4 Credit Hours**

(Cross-listed with EXSC 25057) Comprehensive examination of anatomy and physiology related to the organization of the body and basic cell and tissue types. Specific structure and function of the muscular, skeletal, integumentary and nervous systems are addressed.

**Prerequisite:** None.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 3 lecture, 2 lab

**Grade Mode:** Standard Letter

**Attributes:** Kent Core Basic Sciences, Kent Core Basic Sciences Lab

**ATTR 25058 HUMAN ANATOMY AND PHYSIOLOGY II (KBS) (KLAB) 4 Credit Hours**

(Cross-listed with EXSC 25058) Comprehensive examination of anatomy and physiology related to the human body under rest and exercise conditions. Specific structure and function of the metabolic, endocrine, lymphatic, digestive, urinary and reproductive systems are addressed. Advanced coverage of neurological, cardiovascular and respiratory systems are also addressed.

**Prerequisite:** ATTR 25057 or EXSC 25057 or BSCI 11010 or BSCI 21010.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 3 lecture, 2 lab

**Grade Mode:** Standard Letter

**Attributes:** Kent Core Basic Sciences, Kent Core Basic Sciences Lab

**ATTR 25092 PRACTICUM IN ATHLETIC TRAINING II (ELR) 3 Credit Hours**

The study and clinical application of the competencies in athletic training educational domains. Specific emphasis on the intermediate cognitive and psychomotor components. Clinical hours and completion of specific competencies are required.

**Prerequisite:** ATTR 15092.

**Schedule Type:** Lecture, Practical Experience

**Contact Hours:** 2 lecture, 15 other

**Grade Mode:** Standard Letter-IP

**Attributes:** Experiential Learning Requirement

**ATTR 35025 ESSENTIALS OF ATHLETIC INJURY MANAGEMENT 1 Credit Hour**

Common injuries related to physical activity and/or athletic participation from the cause, management and care perspectives. American Red Cross sport safety training certification (including adult/child CPR) will be granted. Emphasis on application of skills.

**Prerequisite:** None.

**Schedule Type:** Laboratory

**Contact Hours:** 1 lab

**Grade Mode:** Standard Letter

**ATTR 35037 ADVANCED PHYSICAL ASSESSMENT TECHNIQUES 3 Credit Hours**

Anatomical, medical and clinical assessment techniques for injuries and illnesses common to the physically active. Emphasis on neurological and non-orthopedic assessment strategies for proper referral and care.

**Prerequisite:** ATTR 25037 and ATTR 25038; and ATTR 25058 or BSCI 11020 or BSCI 21020 or EXSC 25058.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 2 lecture, 2 lab

**Grade Mode:** Standard Letter

**ATTR 35039 THERAPEUTIC MODALITIES 3 Credit Hours**

The study and practical application of physical modalities including physical principles, physiologic effects, indications/contraindications and standard application procedures. Safety and legal issues of modality usage are also addressed.

**Prerequisite:** ATTR 25036.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**ATTR 35040 STRENGTH AND CONDITIONING 2 Credit Hours**

Demonstrate didactic understanding and clinical application of energy systems, anatomy and proper techniques for strength and conditioning exercises for practical applications with athletes.

**Prerequisite:** ATTR 25057 or EXSC 25057 or BSCI 11010 or BSCI 21010; and Athletic Training, Exercise Science or Physical Education-Professional major.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 1 lecture, 2 lab

**Grade Mode:** Standard Letter

**ATTR 35045 EMERGENCY MEDICAL TECHNICIAN-BASIC 5 Credit Hours**

Preparing for Emergency Medical Technician certification including patient assessment, airway and cardiac management, trauma management, medical patient management and clinical experience. Prepares students to challenge the National Registry Examination for the State of Ohio for EMT-Basic. Clinical hours are required for this course through Hudson EMS.

**Prerequisite:** None.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 2 lecture, 6 lab

**Grade Mode:** Standard Letter

**ATTR 35050 NEUROLOGICAL PROCESS FOR THE HEALTHCARE PROFESSIONAL 3 Credit Hours**

Advanced cognitive content in the areas of normal and pathological function of the nervous system and its components. Specific emphasis on the neurophysiological basis for motor learning, special senses, and memory serves to address the central and peripheral nervous system structure and function. Growth and Development and pathological responses to hypoxia, microbiologic agents, genetic derangements, nutritional deficiencies, chemicals, drugs and aging are addressed.

**Prerequisite:** ATTR 25057 or EXSC 25057 or BSCI 11010 or BSCI 21010; and ATTR 25058 or EXSC 25058 or BSCI 11020 or BSCI 21020.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ATTR 35054 BIOMECHANICS 3 Credit Hours**

(Cross-listed with EXSC 35054) Anatomical and mechanical bases of human movement. Emphasis is placed on tools and techniques for motion analysis, mechanical concepts, forces and performance analysis. Lecture and laboratory.

**Prerequisite:** ATTR 25057 or EXSC 25057 or BSCI 11010 or BSCI 21010.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 2 lecture, 2 lab

**Grade Mode:** Standard Letter

**ATTR 35062 EVIDENCE-BASED RESEARCH IN HEALTH CARE 3 Credit Hours**

An examination of evidence-based practice and evidence-based research in health care. The focus of the course will include understanding literature, research questions, methods of research, and how evidence-based research and evidence-based practice play a vital role in the delivery or modern day healthcare. Emphasis will be placed upon the process of evidence-based research, utilizing the outcomes of evidence-based research and the utilization of outcomes assessment in healthcare.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ATTR 35092 PRACTICUM IN ATHLETIC TRAINING III (ELR) 3 Credit Hours**

The study and clinical application of the competencies in athletic training educational domains. Specific emphasis on the intermediate and advanced cognitive and psychomotor components. Clinical hours and completion of specific competencies are required.

**Prerequisite:** ATTR 25092.

**Schedule Type:** Lecture, Practical Experience

**Contact Hours:** 2 lecture, 15 other

**Grade Mode:** Standard Letter-IP

**Attributes:** Experiential Learning Requirement

**ATTR 43018 ETHICAL LEADERSHIP FOR HEALTH CARE (WIC) 3 Credit Hours**

(Slashed with ATTR 53018) Examination of specific situations in healthcare from an ethical sensitivity, reasoning and decision making perspective. A problem-oriented case study approach based on contemporary moral issues and moral theory related to clinical and academic health professions. An examination and assessment of leadership styles and methods as they pertain to healthcare and healthcare administration.

**Prerequisite:** Senior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Writing Intensive Course

**ATTR 45017 PROFESSIONAL DEVELOPMENT IN ATHLETIC TRAINING 3 Credit Hours**

An investigation of the issues affecting the student athletic trainer as they prepare for an entry-level career in athletic training. Professional development issues and NATABOC exam preparation are included.

**Prerequisite:** Athletic Training majors only; and senior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ATTR 45019 PROFESSIONAL RESPONSIBILITY AND MANAGEMENT IN HEALTH CARE 3 Credit Hours**

An investigation of the issues affecting the entry level healthcare providers. Professional development issues and career advancement are included. Investigation into current philosophies and legal aspects of healthcare management. Organization and administrative concepts and models will focus on the advancement of patient based healthcare.

**Prerequisite:** Senior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ATTR 45038 ORGANIZATION AND ADMINISTRATION OF ATHLETIC TRAINING 3 Credit Hours**

(Cross-listed with ATTR 55038) Investigation into current philosophies and legal aspects of athletic training. Organization and administration of all aspects of athletic training programs.

**Prerequisite:** ATTR 25036.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ATTR 45039 THERAPEUTIC REHABILITATION 3 Credit Hours**

(Cross-listed with ATTR 55039) The study and clinical application of rehabilitation techniques including strategies for proper exercise selection based on anatomical and physiological considerations, program administration and guidelines for program progression.

**Prerequisite:** ATTR 25036; and ATTR 25057 or EXSC 25057 or BSCI 11010 or BSCI 21010.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 2 lecture, 1 lab

**Grade Mode:** Standard Letter

**ATTR 45040 PATHOLOGY AND PHARMACOLOGY FOR ALLIED HEALTH CARE PROVIDERS 3 Credit Hours**

(Cross-listed with ATTR 55040) Investigation of specific pathological conditions presented by professionals, including physicians and pharmacists. Will discuss common pathologies, associated pharmacological treatment and physiologic effects for various afflictions.

**Prerequisite:** ATTR 25058 or EXSC 25058 or BSCI 11020 or BSCI 21020.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ATTR 45041 ADVANCED THERAPEUTIC INTERVENTIONS 3 Credit Hours**

Addresses the physiological considerations of specific injuries and conditions commonly encountered in the athletic training profession. Focus is on contemporary rehabilitative programming for all of the major body regions. Specific units on Aquatic therapy and rehabilitation, Neurological considerations for rehabilitation, Return to Running Considerations, and Return to Throwing protocols are included.

**Prerequisite:** ATTR 25057 or EXSC 25057 or BSCI 11010 or BSCI 21010; and ATTR 25058 or EXSC 25058 or BSCI 11020 or BSCI 21020; and ATTR 35054 and ATTR 45039.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 2 lecture, 1 lab

**Grade Mode:** Standard Letter

**ATTR 45091 SENIOR SEMINAR IN ATHLETIC TRAINING 1 Credit Hour**

(Repeatable for credit) Contemporary issues related to preparing students for entry-level careers in the athletic training profession including development of the foundational behaviors of professional practice. Specific emphasis on employment preparation or graduate school preparation.

**Prerequisite:** Athletic Training major; and senior standing.

**Schedule Type:** Seminar

**Contact Hours:** 1 lecture

**Grade Mode:** Standard Letter

**ATTR 45096 INDIVIDUAL INVESTIGATION IN ATHLETIC TRAINING 1-3 Credit Hours**

(Repeatable for a maximum of 6 credit hours) Independent study completed under the supervision of a faculty member. Written approval of supervising faculty member and school director required prior to registration.

**Prerequisite:** Special approval.

**Schedule Type:** Individual Investigation

**Contact Hours:** 3-9 other

**Grade Mode:** Standard Letter-IP

**ATTR 45192 PRACTICUM IN ATHLETIC TRAINING IV (ELR) 3 Credit Hours**

The study and clinical application of competencies in athletic training educational domains. Specific emphasis on the advanced cognitive and psychomotor components. Clinical hours and completion of specific competencies are required.

**Prerequisite:** ATTR 35092.

**Schedule Type:** Lecture, Practical Experience

**Contact Hours:** 2 lecture, 15 other

**Grade Mode:** Standard Letter-IP

**Attributes:** Experiential Learning Requirement

**ATTR 45292 INTERNSHIP IN ATHLETIC TRAINING I (ELR) 3 Credit Hours**

Internship in approved athletic training setting under the direct supervision of a certified athletic trainer. Students complete 20 hours per week in a clinical experience.

**Prerequisite:** ATTR 45192; and special approval.

**Schedule Type:** Lecture, Practical Experience

**Contact Hours:** 1 lecture, 20 other

**Grade Mode:** Standard Letter-IP

**Attributes:** Experiential Learning Requirement

**ATTR 45392 INTERNSHIP IN ATHLETIC TRAINING II (ELR) 3 Credit Hours**

Internship in an approved athletic training setting under the supervision of a certified and licensed athletic trainer. Students are required to perform 20 hours per week in clinical experience.

**Prerequisite:** ATTR 45292; and special approval.

**Schedule Type:** Lecture, Practical Experience

**Contact Hours:** 1 lecture, 20 other

**Grade Mode:** Standard Letter-IP

**Attributes:** Experiential Learning Requirement

**ATTR 45492 INTER-PROFESSIONAL INTERNSHIP IN SPORTS MEDICINE (ELR) 3 Credit Hours**

(Repeatable for credit) Inter-professional internship experience in a sports medicine discipline. An internship experience in a sports medicine facility focusing on inter-professional dynamics and aspects of the discipline. A comprehensive clinical experience will be supported by engagement in the inter-professional environment through projects and professional development experiences. Integration of professionalism, professional development, and transition to practice in a sports medicine discipline drives this internship.

**Prerequisite:** Sports medicine major; and senior standing; and special approval.

**Schedule Type:** Practical Experience

**Contact Hours:** 9 other

**Grade Mode:** Standard Letter

**Attributes:** Experiential Learning Requirement

**ATTR 46095 SPECIAL TOPICS IN ATHLETIC TRAINING 1-3 Credit Hours**

(Repeatable for credit) Selected topics in athletic training dependent upon interest.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 1-3 lecture

**Grade Mode:** Standard Letter

**ATTR 53018 ETHICAL LEADERSHIP FOR HEALTH CARE 3 Credit Hours**

(Slashed with ATTR 43018) Examination of specific situations in healthcare from an ethical sensitivity, reasoning and decision making perspective. A problem-oriented case study approach based on contemporary moral issues and moral theory related to clinical and academic health professions. An examination and assessment of leadership styles and methods as they pertain to health care and health care administration.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ATTR 55038 ORGANIZATION AND ADMINISTRATION OF ATHLETIC TRAINING 3 Credit Hours**

(Cross-listed with ATTR 45038) Investigation into current philosophies and legal aspects of athletic training. Organization and administration of all aspects of athletic training programs.

**Prerequisite:** ATTR 25036; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ATTR 55039 THERAPEUTIC REHABILITATION 3 Credit Hours**

(Cross-listed with ATTR 45039) The study and clinical application of rehabilitation techniques including strategies for proper exercise selection based on anatomical and physiological considerations, program administration, and guidelines for program progression.

**Prerequisite:** Graduate standing.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 2 lecture, 2 lab

**Grade Mode:** Standard Letter

**ATTR 55040 PATHOLOGY AND PHARMACOLOGY FOR ALLIED HEALTH CARE PROVIDERS 3 Credit Hours**

Investigation of specific pathological conditions presented by professionals, including physicians and pharmacists. Will discuss common pathologies, associated pharmacological treatments and physiologic effects for various afflictions.

**Prerequisite:** ATTR 25058 or EXSC 25058.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ATTR 60000 CADAVER ANATOMY AND APPLIED ASSESSMENT 6 Credit Hours**

Cadaver dissection with emphasis on the systems of the body to understand structure and function of the anatomical structures. Applied assessment components integrate functional assessment and diagnostic signs and symptoms of common athletic training conditions and injuries. Evidence-based assessment will be infused throughout the course.

**Prerequisite:** Athletic Training major within the Master of Science degree; and graduate standing.

**Schedule Type:** Laboratory, Lecture, Combined Lecture and Lab

**Contact Hours:** 3 lecture, 6 lab

**Grade Mode:** Standard Letter

**ATTR 61000 ACUTE INJURY DIAGNOSIS, TREATMENT AND MANAGEMENT 3 Credit Hours**

Mechanisms of acute injuries will provide the foundation for the integration of evidence-based knowledge in the diagnosis, treatment and management of athletic training injuries. Contemporary clinical guidelines and management strategies will provide a framework for critical thinking and practical application.

**Prerequisite:** Graduate standing.

**Schedule Type:** Laboratory, Lecture, Combined Lecture and Lab

**Contact Hours:** 2 lecture, 2 lab

**Grade Mode:** Standard Letter

**ATTR 62010 CONTEMPORARY ISSUES IN ATHLETIC TRAINING 3 Credit Hours**

A comprehensive examination of contemporary issues, trends and problems affecting athletic training professionals related to the domains of practice for athletic trainers.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ATTR 62012 EDUCATION AND SUPERVISION PROCESSES IN ATHLETIC TRAINING 3 Credit Hours**

A comprehensive examination of educational learning theories, curriculum design, evaluation and supervision strategies in athletic training education programs from didactic and clinical perspectives. Additional applications for continuing education programs will be included.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ATTR 62014 ADVANCED CLINICAL PROCEDURES IN ATHLETIC TRAINING AND SPORTS MEDICINE 3 Credit Hours**

Advanced clinical practice theory and skills as they relate to the profession of athletic training and sports medicine. Emphasis on contemporary clinical practice issues for a variety of athletic training and sports medicine professional settings.

**Prerequisite:** Graduate standing.

**Schedule Type:** Laboratory, Lecture, Combined Lecture and Lab

**Contact Hours:** 2 lecture, 2 lab

**Grade Mode:** Standard Letter

**ATTR 62016 CLINICAL INQUIRY IN ATHLETIC TRAINING 3 Credit Hours**

Principles of athletic training research methodologies with a focus on clinical athletic training research. Completion of a clinical research project will be required in this course.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ATTR 63091 RESEARCH SEMINAR 1 Credit Hour**

(Slashed with ATTR 73091) Presentation and discussion of research by faculty and students. A total of 2 credits may be applied toward degree requirements.

**Prerequisite:** Graduate standing.

**Schedule Type:** Seminar

**Contact Hours:** 1 other

**Grade Mode:** Satisfactory/Unsatisfactory

**ATTR 63094 COLLEGE TEACHING IN HEALTH SCIENCES 3 Credit Hours**

(Repeatable for a maximum of 6 credit hours) Guided teaching experiences in the Health Sciences. Specific emphasis on establishing and implementing a teaching philosophy in an instructional setting in the Health Sciences. Development of Professional Teaching Behaviors will be addressed. A comprehensive teaching experience rooted in contemporary teaching literature will guide this course.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Lecture, Seminar

**Contact Hours:** 1 lecture, 2 other

**Grade Mode:** Standard Letter

**ATTR 63096 INDIVIDUAL INVESTIGATION IN ATHLETIC TRAINING 1-3 Credit Hours**

(Repeatable for a maximum of 6 credit hours) Independent study completed under the supervision of a faculty member. Written approval of supervising faculty member and School director required prior to registration.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Individual Investigation

**Contact Hours:** 3-9 other

**Grade Mode:** Standard Letter-IP



**ATTR 63098 RESEARCH 1-15 Credit Hours**

(Repeatable for credit) Research carried out by the student under the supervision of a faculty member.

**Prerequisite:** Graduate standing.

**Schedule Type:** Research

**Contact Hours:** 1-15 other

**Grade Mode:** Standard Letter-IP

**ATTR 63193 VARIABLE TITLE WORKSHOP IN ATHLETIC TRAINING 1-3 Credit Hours**

(Repeatable for credit) Workshop in athletic training; topics vary. Maximum 4 hours applied to the degree.

**Prerequisite:** Graduate standing.

**Schedule Type:** Workshop

**Contact Hours:** 1-3 other

**Grade Mode:** Satisfactory/Unsatisfactory

**ATTR 63195 SPECIAL TOPICS IN ATHLETIC TRAINING 1-3 Credit Hours**

(Repeatable for a maximum of 6 credit hours) Selected and varied topics of relevance in athletic training.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 1-3 lecture

**Grade Mode:** Standard Letter

**ATTR 63199 THESIS I 2-6 Credit Hours**

(Repeatable for credit) Thesis students must register for a total of 6 hours, 2 to 6 hours in a semester distributed over several semesters if desired.

**Prerequisite:** Graduate standing.

**Schedule Type:** Masters Thesis

**Contact Hours:** 2-6 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**ATTR 63299 THESIS II 2 Credit Hours**

Thesis students must continue registration each semester until all degree requirements are met.

**Prerequisite:** ATTR 63199; and graduate standing.

**Schedule Type:** Masters Thesis

**Contact Hours:** 2 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**ATTR 65001 CLINICAL PRACTICE I: PREVENTION AND WELLNESS 3 Credit Hours**

Clinical practicum in an athletic training setting under the direct supervision of a certified, licensed health care provider. Emphasis on the development of clinical competencies related to prevention of injuries and medical conditions and overall wellness will be the primary focus. Engagement in an inter-professional environment with specific competencies for research and ethical case analysis are required. Students must complete a minimum of 180 hours in clinicals.

**Prerequisite:** Athletic Training major within the Master of Science degree; and graduate standing.

**Schedule Type:** Clinical Laboratory

**Contact Hours:** 12 other

**Grade Mode:** Standard Letter

**ATTR 65002 CLINICAL PRACTICE II: ADVANCED HEAD, NECK AND ORTHOPEDIC 3 Credit Hours**

Clinical practicum in an athletic training setting under the direct supervision of a certified, licensed health care provider. Emphasis on the development of clinical competencies related to Head, Neck, and Orthopedic conditions and overall wellness will be the primary focus. Engagement in an inter-professional environment with specific competencies for research and ethical case analysis are required. Student must complete a minimum of 180 hours in clinicals.

**Prerequisite:** Athletic Training major within the Master of Science degree; and graduate standing.

**Schedule Type:** Clinical Laboratory

**Contact Hours:** 12 other

**Grade Mode:** Standard Letter

**ATTR 65003 CLINICAL PRACTICE III: GENERAL MEDICAL 3 Credit Hours**

Clinical practicum in an athletic training setting under the direct supervision of a certified, licensed health care provider. Emphasis on the development of clinical competencies related to general medical conditions will be the primary focus. Engagement in an inter-professional environment including rotations with physicians and-or nurse practitioners with specific competencies for research and ethical case analysis are required. Student must complete a minimum of 180 hour in clinicals.

**Prerequisite:** Athletic Training major within the Master of Science degree; and graduate standing.

**Schedule Type:** Clinical Laboratory

**Contact Hours:** 12 other

**Grade Mode:** Standard Letter

**ATTR 65004 BIOMECHANICS 3 Credit Hours**

(Cross-listed with EXPH 75004) Survey of biomechanics, with particular emphasis on skeletal muscle mechanics.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ATTR 65005 CLINICAL PRACTICE IV: ADVANCED COMPETENCIES 3 Credit Hours**

Clinical practicum in an athletic training setting under the direct supervision of a certified, licensed health care provider. Emphasis on the development of clinical competencies related to advanced competencies and skills in athletic training will be the primary focus. Engagement in an inter-professional environment with specific competencies for research and ethical case analysis are required. Student must complete a minimum of 180 hours in clinicals.

**Prerequisite:** Athletic Training major within the Master of Science degree; and graduate standing.

**Schedule Type:** Clinical Laboratory

**Contact Hours:** 12 other

**Grade Mode:** Standard Letter

**ATTR 65037 PHYSICAL AGENTS IN ATHLETIC TRAINING AND SPORTS MEDICINE 3 Credit Hours**

The study and practical application of physical modalities including physical principles, physiologic effects, indications-contradictions, and standard application procedures. Safety and legal issues of modality usage are also addressed.

**Prerequisite:** Graduate standing.

**Schedule Type:** Laboratory, Lecture, Combined Lecture and Lab

**Contact Hours:** 2 lecture, 2 lab

**Grade Mode:** Standard Letter

**ATTR 65038 ADMINISTRATION CONCEPTS FOR THE HEALTHCARE PROFESSIONAL 3 Credit Hours**

Investigation into current philosophies and legal aspects of athletic training and sports medicine programs. Organization and administration of all aspects of athletic training and sports medicine programs with specific emphasis on policy and regulation of programs anchored in contemporary healthcare practices.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ATTR 65039 PHYSICAL REHABILITATION IN ATHLETIC TRAINING AND SPORTS MEDICINE 3 Credit Hours**

The study and clinical application of evidence based rehabilitation techniques including strategies for proper exercise selection based on anatomical and physiological considerations, program administration, and guidelines for program progression. This course will address the comprehensive concepts related to the rehabilitation of including but not limited to modality selection, pharmacological considerations, record keeping, program design and implementation, and safety aspects. The psychology of rehabilitation including goal setting and motivation will also be addressed. Current literature and techniques in the field will support the content of this course.

**Prerequisite:** Graduate standing.

**Schedule Type:** Laboratory, Lecture, Combined Lecture and Lab

**Contact Hours:** 2 lecture, 2 lab

**Grade Mode:** Standard Letter

**ATTR 65040 PATHOPHARMACOLOGY FOR HEALTHCARE PROVIDERS 3 Credit Hours**

Advanced investigation of specific pathological conditions presented by professionals, including physicians and pharmacists. Will discuss common pathologies, associated pharmacological treatment and physiologic effects for various afflictions anchored in evidence-based practice in health care.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ATTR 65050 NEUROLOGICAL CONCEPTS FOR THE HEALTHCARE PROFESSIONAL 3 Credit Hours**

Advanced cognitive content in normal and pathological function of the nervous system and its components. Specific emphasis on the neurophysiological basis for motor learning, special senses, and memory serves to address the central and peripheral nervous system structure and function. Growth and Development and pathological responses to hypoxia, microbiologic agents, genetic derangements, nutritional deficiencies, chemicals, drugs and aging are addressed. Evidence-based practice concepts will guide the integration from anatomy and physiology to effective interventions for selected neurological conditions.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ATTR 69999 CLINICAL CAPSTONE IN ATHLETIC TRAINING 6 Credit Hours**

Clinical Capstone is an intensive, immersion experience in the clinical setting under the direct supervision of a certified, licensed health care professional. Students will invest a minimum of 360 in the clinical setting working with inter-professional health care providers. Clinical capstone expectations include performance evaluations by supervisors and patient management to promote active clinical engagement and critical thinking. A portfolio will include professional skill assessments, performance assessment, case studies, mock interview, and formal evidence-based presentation to health care providers on an athletic training domain.

**Prerequisite:** Athletic Training major within the Master of Science degree; and graduate standing.

**Schedule Type:** Clinical Laboratory

**Contact Hours:** 24 other

**Grade Mode:** Standard Letter

**ATTR 73091 RESEARCH SEMINAR 1 Credit Hour**

(Slashed with ATTR 63091) Presentation and discussion of research by faculty and students. A total of 2 credits may be applied toward degree requirements.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Seminar

**Contact Hours:** 1 other

**Grade Mode:** Satisfactory/Unsatisfactory

**ATTR 73094 COLLEGE TEACHING IN HEALTH SCIENCES 3 Credit Hours**

Guided teaching experiences in health sciences. Specific emphasis on establishing and implementing a teaching philosophy in an instructional setting in the health sciences. Development of Professional Teaching Behaviors will be addressed. A comprehensive teaching experience rooting in contemporary literature will guide this course.

**Prerequisite:** Doctoral standing; and special approval.

**Schedule Type:** Lecture, Seminar

**Contact Hours:** 1 lecture, 2 other

**Grade Mode:** Standard Letter

**ATTR 75001 EVIDENCE BASED INTERVENTIONS IN ATHLETIC TRAINING 3 Credit Hours**

This course will examine the use of Evidence Based Interventions (EBI) in Athletic Training Education. This course will examine the implementation of EBI constructs across the curriculum and program. Specific emphasis on designing and implementing EBI into didactic and clinical experiences in Athletic Training. Implementation of EBI into the development, implementation and dissemination of research will also be addressed. Through an extensive examination of the critical literature, students will gain an understanding of how to broadly integrate EBI constructs in their professional practice.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ATTR 75002 ACADEMIC AND ADMINISTRATIVE LEADERSHIP IN ATHLETIC TRAINING 3 Credit Hours**

This course will address the key academic leadership constructs needed to navigate the higher education culture as a faculty and/or clinical faculty member. Human resources, politics, administrative processes and organizational factors related to successful higher education and clinical leadership will be the focus. Leadership and advocacy strategies for professional organizations will also be developed.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ATTR 75003 CONTINUOUS QUALITY IMPROVEMENT AND ASSESSMENT IN ATHLETIC TRAINING 3 Credit Hours**

The focus of the course includes the fundamental constructs associated with quality improvement through an academic program in athletic training. The development of inter-professional practice, engaging curriculum, creation of educational and administrative policy, and leading change within Athletic Training organizations. The course will assist students in developing action plans for their organization pertaining to organizational improvement.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ATTR 75004 TEACHING AND CLINICAL EDUCATION LEADERSHIP IN ATHLETIC TRAINING 3 Credit Hours**

This course focuses on the comprehensive and integrated elements in athletic training education. An in-depth analysis of curriculum design and implementation, didactic and clinical education, program assessments, and accreditation policies and standards will be addressed. A framework rooted in the context of inter-professional education promote organizational and programmatic improvements related dynamic trends in HC education.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

## Aviation Maintenance Technology (AMRT)

**AMRT 10010 FAA REGULATIONS AND DOCUMENTATION 2 Credit Hours**

FAA history, inspections, documentation and aircraft drawings. Comprehensive course for the AMRT candidate to meet the requirements for FAA certification.

**Corequisite:** AMRT 10040.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**AMRT 10020 AIRCRAFT TOOLS AND TECHNIQUES 2 Credit Hours**

Welding for the aviation maintenance technician and understanding of fluid lines and fittings. Comprehensive course for the AMRT candidate to meet the requirements for FAA certification.

**Corequisite:** AMRT 10010.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 2 other

**Grade Mode:** Standard Letter

**AMRT 10030 AIRFRAME I 3 Credit Hours**

Understanding aircraft systems and corrosion control. Comprehensive course for the AMRT candidate to meet the requirements for FAA certification.

**Corequisite:** AMRT 10010.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**AMRT 10040 AVIATION POWER PLANT I 4 Credit Hours**

Study of aviation engines and propellers. Comprehensive course for the AMRT candidate to meet the requirements for FAA certification.

**Corequisite:** AMRT 10010.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 4 other

**Grade Mode:** Standard Letter

**AMRT 20010 AIRFRAME II 3 Credit Hours**

Understanding aircraft structures. Comprehensive course for the AMRT candidate to meet the requirements for FAA certification.

**Prerequisite:** AMRT 10030.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**AMRT 20020 AIRFRAME III 2 Credit Hours**

Advanced airframe course. Comprehensive course for the AMRT candidate to meet the requirements for FAA certification.

**Corequisite:** AMRT 20010.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 2 other

**Grade Mode:** Standard Letter

**AMRT 20030 AVIATION ELECTRONICS 3 Credit Hours**

Electronics and systems for the aviation maintenance technician. Comprehensive course for the AMRT candidate to meet the requirements for FAA certification.

**Prerequisite:** EERT 12001.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**AMRT 20040 PRINCIPLES OF FLIGHT 3 Credit Hours**

Nature of light, sound and aerodynamics. Comprehensive course for the AMRT candidate to meet the requirements for FAA certification.

**Prerequisite:** PHY 12202.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**AMRT 20050 PRACTICUM IN ADVANCED AVIATION 2 Credit Hours**

Aviation maintenance experience. Comprehensive course for the AMRT candidate to meet the requirements for FAA certification.

**Prerequisite:** AMRT 10040.

**Schedule Type:** Practical Experience

**Contact Hours:** 2 other

**Grade Mode:** Standard Letter

**AMRT 20060 AVIATION POWER PLANT II 2 Credit Hours**

Further studies into aircraft engines. Comprehensive course for the AMRT candidate to meet the requirements for FAA certification.

**Prerequisite:** AMRT 10040.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 2 other

**Grade Mode:** Standard Letter

## Biological Sciences (BSCI)

### **BSCI 10001 HUMAN BIOLOGY (KBS) 3 Credit Hours**

Study of the scientific method and life's properties, emphasizing human biology. Topics include energy, genetics, reproduction, development disease, nutrition and physical fitness in humans. This course may not be used to fulfill major or minor requirements in the following programs: BA Biology, BS Biology, BS Botany, BS Environmental and Conservation Biology, BS Medical Technology, BS Biotechnology, BS Zoology, and the Biological Sciences minor.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Kent Core Basic Sciences, Transfer Module Natural Sciences

### **BSCI 10002 LIFE ON PLANET EARTH (KBS) 3 Credit Hours**

Explores the fascinating breadth of life on Earth including the unique ecology and survival strategies of animals, plants and microbes in their natural habitats. This course may not be used to fulfill major or minor requirements in the following programs: BA Biology, BS Biology, BS Botany, BS Environmental and Conservation Biology, BS Medical Technology, BS Biotechnology, BS Zoology, and the Biological Sciences minor.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Kent Core Basic Sciences, Transfer Module Natural Sciences

### **BSCI 10003 LABORATORY EXPERIENCE IN BIOLOGY (KBS) (KLAB) 1 Credit Hour**

Introductory college-level laboratory in biology for non-majors. This course may not be used to fulfill major or minor requirements in the following programs: BA Biology, BS Biology, BS Botany, BS Environmental and Conservation Biology, BS Medical Technology, BS Biotechnology, BS Zoology, and the Biological Sciences minor.

**Pre/corequisite:** BSCI 10001 or 10002.

**Schedule Type:** Laboratory

**Contact Hours:** 2 lab

**Grade Mode:** Standard Letter

**Attributes:** Kent Core Basic Sciences, Kent Core Basic Sciences Lab

### **BSCI 10005 ANATOMY FOR VETERINARY TECHNICIANS 5 Credit Hours**

Comparison and identification of anatomy and basic physiological functions of domestic animals: skeletal, muscles, integumentary, special sense organs, respiratory, digestive, urinary, reproductive, mammary glands, endocrine, nerves, circulatory, immune. Lecture 4 hours, laboratory 3 hours weekly. This course may not be used to fulfill major or minor requirements in the following programs: BA Biology, BS Biology, BS Botany, BS Environmental and Conservation Biology, BS Medical Technology, BS Biotechnology, BS Zoology, and the Biological Sciences minor.

**Prerequisite:** None.

**Schedule Type:** Laboratory, Lecture, Combined Lecture and Lab

**Contact Hours:** 5 other

**Grade Mode:** Standard Letter

### **BSCI 10110 BIOLOGICAL DIVERSITY (KBS) (KLAB) 4 Credit Hours**

This introductory course examines the biodiversity of life from its origins to present-day prokaryotes and eukaryotes; their behavior, ecology, and reproduction. Students must earn a final grade of at least C- in order to meet prerequisites for selected upper-division BSCI courses.

**Prerequisite:** None.

**Schedule Type:** Laboratory, Lecture, Combined Lecture and Lab

**Contact Hours:** 3 lecture, 2 lab

**Grade Mode:** Standard Letter

**Attributes:** Kent Core Basic Sciences, Kent Core Basic Sciences Lab, TAG Science

### **BSCI 10120 BIOLOGICAL FOUNDATIONS (KBS) (KLAB) 4 Credit Hours**

This introductory course examines the organization of life from subcellular biochemistry and molecular biology, to genetics, bioenergetics and system homeostasis. Three hours of lecture and three hours of lab weekly. Students must earn a final grade of at least C- in order to meet prerequisites for selected upper-division BSCI courses.

**Prerequisite:** None.

**Schedule Type:** Laboratory, Lecture, Combined Lecture and Lab

**Contact Hours:** 3 lecture, 3 lab

**Grade Mode:** Standard Letter

**Attributes:** Kent Core Basic Sciences, Kent Core Basic Sciences Lab, TAG Science

### **BSCI 10195 SPECIAL TOPICS IN BIOLOGY 1-3 Credit Hours**

(Repeatable for credit) Selected subjects and/or themes in biology.

**Prerequisite:** Special approval.

**Schedule Type:** Lecture

**Contact Hours:** 1-3 lecture

**Grade Mode:** Standard Letter

### **BSCI 11010 FOUNDATIONAL ANATOMY AND PHYSIOLOGY I (KBS) (KLAB) 3 Credit Hours**

Anatomy and physiology to include organization of the human body, cells, tissues, organs and systems, integumentary, skeletal, muscular and respiratory systems and overviews of the nervous and circulatory system. This course is taught on Kent State's regional campuses for associate degree programs. This course may not be used to fulfill major or minor requirements in the following programs: BA Biology, BS Biology, BS Botany, BS Environmental and Conservation Biology, BS Medical Technology, BS Biotechnology, BS Zoology, and the Biological Sciences minor.

**Prerequisite:** Special approval.

**Schedule Type:** Laboratory, Lecture, Combined Lecture and Lab

**Contact Hours:** 2 lecture, 3 lab

**Grade Mode:** Standard Letter

**Attributes:** Kent Core Basic Sciences, Kent Core Basic Sciences Lab

### **BSCI 11020 FOUNDATIONAL ANATOMY AND PHYSIOLOGY II (KBS) (KLAB) 3 Credit Hours**

Anatomy and physiology of the circulatory, digestive, urinary, nervous, endocrine and reproductive systems. This course is taught on Kent State's regional campuses for associate degree programs. This course may not be used to fulfill major or minor requirements in the following programs: BA Biology, BS Biology, BS Botany, BS Environmental and Conservation Biology, BS Medical Technology, BS Biotechnology, BS Zoology, and the Biological Sciences minor.

**Prerequisite:** BSCI 11010; and special approval.

**Schedule Type:** Laboratory, Lecture, Combined Lecture and Lab

**Contact Hours:** 2 lecture, 3 lab

**Grade Mode:** Standard Letter

**Attributes:** Kent Core Basic Sciences, Kent Core Basic Sciences Lab

**BSCI 16001 HORTICULTURAL BOTANY 3 Credit Hours**

To provide students with an understanding of the basic anatomy and physiology and growth characteristics of plants. Offered only at the Geauga and Salem campuses. This course may not be used to fulfill major or minor requirements in the following programs: BA Biology, BS Biology, BS Botany, BS Environmental and Conservation Biology, BS Medical Technology, BS Biotechnology, BS Zoology, and the Biological Sciences minor.

**Prerequisite:** None.

**Schedule Type:** Laboratory, Lecture

**Contact Hours:** 2 lecture, 3 lab

**Grade Mode:** Standard Letter

**BSCI 20019 BIOLOGICAL STRUCTURE AND FUNCTION 4 Credit Hours**

Basic design of human systems emphasizing the physiochemical and cellular bases of organ-system structure, function and development. This course may not be used to fulfill major or minor requirements in the following programs: BA Biology, BS Biology, BS Botany, BS Environmental and Conservation Biology, BS Medical Technology, BS Biotechnology, BS Zoology, and the Biology minor.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 4 lecture

**Grade Mode:** Standard Letter

**BSCI 20021 BASIC MICROBIOLOGY 3 Credit Hours**

Principles of microorganisms having a direct relationship on the health and well-being of humans. This course may not be used to fulfill major or minor requirements in the following programs: BA Biology, BS Biology, BS Botany, BS Environmental and Conservation Biology, BS Medical Technology, BS Biotechnology, BS Zoology, and the Biological Sciences minor.

**Prerequisite:** BSCI 20019; or BSCI 21010; or BSCI 10005; or BSCI 11010; or ATTR 25057; or EXSC 25057; and CHEM 10050 or 10052 or 10055 or 10060.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**BSCI 20022 BASIC MICROBIOLOGY LABORATORY 1 Credit Hour**

Laboratory experience in microbiology. This course may not be used to fulfill major or minor requirements in the following programs: BA Biology, BS Biology, BS Botany, BS Environmental and Conservation Biology, BS Medical Technology, BS Biotechnology, BS Zoology, and the Biological Sciences minor.

**Corequisite:** BSCI 20021.

**Schedule Type:** Laboratory

**Contact Hours:** 3 lab

**Grade Mode:** Standard Letter

**BSCI 20195 SPECIAL TOPICS IN BIOLOGY 1-3 Credit Hours**

(Repeatable for credit) Selected subjects and/or themes in Biology.

**Prerequisite:** Special approval.

**Schedule Type:** Lecture

**Contact Hours:** 1-3 lecture

**Grade Mode:** Standard Letter

**BSCI 20196 INTRODUCTION TO INDIVIDUAL INVESTIGATION 1-2 Credit Hours**

(Repeatable for credit) Introduction to research in the biological sciences under the direction of a BSCI faculty mentor.

**Prerequisite:** Minimum C grade in 8 hours of BSCI courses; and departmental and faculty mentor approvals required.

**Schedule Type:** Individual Investigation

**Contact Hours:** 1-2 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**BSCI 21010 ANATOMY AND PHYSIOLOGY I (KBS) (KLAB) 4 Credit Hours**

Anatomy, physiological chemistry, cytology, tissues, and homeostatic mechanisms of the integumentary, skeletal, nervous, muscular, and sensory systems. This course may not be used to fulfill major or minor requirements in the following programs: BA Biology, BS Biology, BS Botany, BS Environmental and Conservation Biology, BS Medical Technology, BS Biotechnology, BS Zoology, and the Biological Sciences minor.

**Prerequisite:** None.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 3 lecture, 3 lab

**Grade Mode:** Standard Letter

**Attributes:** Kent Core Basic Sciences, Kent Core Basic Sciences Lab

**BSCI 21020 ANATOMY AND PHYSIOLOGY II 4 Credit Hours**

Anatomy and physiological processes as related to the following organ systems: endocrine, circulatory, respiratory, digestive, urinary and reproductive. This course may not be used to fulfill major or minor requirements in the following programs: BA Biology, BS Biology, BS Botany, BS Environmental and Conservation Biology, BS Medical Technology, BS Biotechnology, BS Zoology, and the Biological Sciences minor.

**Prerequisite:** BSCI 21010.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 3 lecture, 3 lab

**Grade Mode:** Standard Letter

**BSCI 26002 ECOLOGICAL PRINCIPLES OF PEST MANAGEMENT 3 Credit Hours**

Basic principles of integrated pest management, pesticide application, pest identification and environmental effects. Lecture three hours weekly; offered only at the Salem Campus. This course may not be used to fulfill major or minor requirements in the following programs: BA Biology, BS Biology, BS Botany, BS Environmental and Conservation Biology, BS Medical Technology, BS Biotechnology, BS Zoology, and the Biological Sciences minor.

**Prerequisite:** BSCI 16001.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter



**BSCI 26003 PLANT IDENTIFICATION AND SELECTION I 3 Credit Hours**

Identification and selection of horticulturally important plant species. Emphasis on woody species, shrubs and trees. Lecture two hours weekly, lab three hours weekly. Offered only at the Salem Campus. This course may not be used to fulfill major or minor requirements in the following programs: BA Biology, BS Biology, BS Botany, BS Environmental and Conservation Biology, BS Medical Technology, BS Biotechnology, BS Zoology, and the Biological Sciences minor.

**Prerequisite:** HORT 16001 and BSCI 16001.

**Schedule Type:** Laboratory, Lecture

**Contact Hours:** 2 lecture, 3 lab

**Grade Mode:** Standard Letter

**BSCI 26004 PLANT IDENTIFICATION AND SELECTION II 3 Credit Hours**

Identification and selection of horticulturally important plant species. Emphasis on herbaceous species, ground covers and vines. Lecture two hours weekly, lab three hours weekly. Offered only at the Salem Campus. This course may not be used to fulfill major or minor requirements in the following programs: BA Biology, BS Biology, BS Botany, BS Environmental and Conservation Biology, BS Medical Technology, BS Biotechnology, BS Zoology, and the Biological Sciences minor.

**Prerequisite:** BSCI 16001 and HORT 16001.

**Schedule Type:** Laboratory, Lecture

**Contact Hours:** 2 lecture, 3 lab

**Grade Mode:** Standard Letter

**BSCI 30050 HUMAN GENETICS 3 Credit Hours**

Modern concepts of genetics applicable to the human including examination of genetically related diseases and their societal implications. This course may not be used to fulfill major or minor requirements in the following programs: BA Biology, BS Biology, BS Botany, BS Environmental and Conservation Biology, BS Medical Technology, BS Biotechnology, BS Zoology, and the Biological Sciences minor.

**Prerequisite:** 8 credit hours of Biology courses; and 3 credit hours of Chemistry courses.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**BSCI 30100 NEUROSCIENCE I 3 Credit Hours**

(Crosslisted with NEUR 30100) Neuroscience I will cover basic principles in neuroscience from the cellular to systems levels. After completion of the course, students will have a basic understanding of how the nervous system is organized, electrophysiology properties of neurons, sensory systems, and motor pathways.

**Prerequisite:** BSCI 30140.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**BSCI 30105 CAREER PATHWAYS IN BIOLOGY 1 Credit Hour**

Orients students toward various career pathways in the biological sciences.

**Prerequisite:** Minimum C- grade in the following courses BSCI 10110 and BSCI 10120.

**Schedule Type:** Lecture

**Contact Hours:** 1 lecture

**Grade Mode:** Satisfactory/Unsatisfactory

**BSCI 30130 HUMAN PHYSIOLOGY 3 Credit Hours**

Integrating mechanisms, pharmacological and pathological considerations for selected organ systems.

**Prerequisite:** Minimum C- grade in the following courses BSCI 20019; or BSCI 10110 and BSCI 10120; and 4 credit hours of Chemistry courses.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**BSCI 30140 CELL BIOLOGY 4 Credit Hours**

Investigation of the cell as the fundamental unit of life with an emphasis on the relationship between cellular structure and function. Three-hour lecture and three-hour lab weekly.

**Prerequisite:** Minimum C- grade in BSCI 10120; and CHEM 10060 and 10062.

**Schedule Type:** Laboratory, Lecture, Combined Lecture and Lab

**Contact Hours:** 3 lecture, 3 lab

**Grade Mode:** Standard Letter

**BSCI 30156 ELEMENTS OF GENETICS 3 Credit Hours**

Principles of organic mechanisms for expression and transmission of traits as studied in molecules, cells, organisms and populations.

**Prerequisite:** Minimum C- grade in the following courses BSCI 10110 and 10120; and MATH 10772 or MATH 10775 or MATH 11009 or MATH 11010 or MATH 12002 or MATH 12021.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**BSCI 30157 GENETICS LABORATORY 1 Credit Hour**

Consists of hands-on experiments with modern computational and molecular biology experimental approaches.

**Prerequisite:** Minimum C- grade in the following courses BSCI 10110 and BSCI 10120.

**Corequisite:** BSCI 30156.

**Schedule Type:** Laboratory

**Contact Hours:** 3 lab

**Grade Mode:** Standard Letter

**BSCI 30158 READINGS IN GENETICS 1 Credit Hour**

This course emphasizes principles covered in elements of genetics.

**Prerequisite:** Minimum C- grade in the following courses BSCI 10110 and BSCI 10120.

**Corequisite:** BSCI 30156.

**Schedule Type:** Lecture

**Contact Hours:** 1 lecture

**Grade Mode:** Standard Letter

**BSCI 30171 GENERAL MICROBIOLOGY 4 Credit Hours**

Fundamental principles of microbiology and of organisms including their structure, physiology, genetics, pathogenicity, classification, mechanisms of cultivation and control. Lecture three hours, lab three hours weekly.

**Prerequisite:** Minimum C- grade in BSCI 10110; and BSCI 30140; and CHEM 10060, 10061, 10062 and 10063.

**Schedule Type:** Laboratory, Lecture, Combined Lecture and Lab

**Contact Hours:** 3 lecture, 1 lab

**Grade Mode:** Standard Letter

**BSCI 30200 NEUROSCIENCE II 3 Credit Hours**

(Cross-listed with NEUR 30200) The course builds off of the principles taught in Neuroscience I by providing more depth and breadth to the functioning of the nervous system. The course provides students a more complete understanding of the neuroanatomy, neurophysiology and neural circuitry involved in sensory processing, motor control, and higher-order cognitive functioning.

**Prerequisite:** NEUR 30100 or BSCI 30100.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**BSCI 30267 PLANT PHYSIOLOGY 4 Credit Hours**

Introduction to biochemical processes in plants and plant cells. How plants grow and maintain their bodies through dynamic interactions with the environment. Lecture three hours weekly, lab two hours weekly.

**Prerequisite:** BSCI 10120, CHEM 10060 and 10062.

**Schedule Type:** Laboratory, Lecture

**Contact Hours:** 3 lecture, 3 lab

**Grade Mode:** Standard Letter

**BSCI 30270 GENERAL PLANT BIOLOGY 3 Credit Hours**

Covers all topics in modern plant biology, including molecular and cellular biology, physiology, anatomy, development, ecology, evolution and diversity.

**Prerequisite:** Minimum C- grades in BSCI 10110 and BSCI 10120.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**BSCI 30271 GENERAL PLANT BIOLOGY LABORATORY 1 Credit Hour**

Laboratory and greenhouse exercises in general plant biology.

**Prerequisite:** Minimum C- grade in the following courses BSCI 10110 and BSCI 10120.

**Corequisite:** BSCI 30270.

**Schedule Type:** Laboratory

**Contact Hours:** 1 lab

**Grade Mode:** Standard Letter

**BSCI 30274 FORESTRY 3 Credit Hours**

Management of the forest resource within appropriate environmental constraints for sustained use relative to watershed protection, lumber production, recreation and wildlife.

**Prerequisite:** Minimum C- grade in BSCI 10110.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**BSCI 30275 LOCAL FLORA (ELR) 4 Credit Hours**

Identification and field study of local plants: native, naturalized and cultivated. Two-hour lecture and six-hour lab weekly.

**Prerequisite:** Minimum C- grade in the following courses BSCI 10110 and 10120.

**Schedule Type:** Laboratory, Lecture

**Contact Hours:** 2 lecture, 6 lab

**Grade Mode:** Standard Letter

**Attributes:** Experiential Learning Requirement

**BSCI 30277 ECONOMIC BOTANY 3 Credit Hours**

Economic botany is the scientific study of plants that are important to humans. It considers how plants are used and how plants have shaped up past and modern cultural development.

**Prerequisite:** Minimum C- grades in BSCI 10110.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**BSCI 30300 EXPERIMENTAL METHODS IN NEUROSCIENCE 1 Credit Hour**

(Cross-listed with NEUR 30300) Accompanying laboratory course to NEUR 30200 or BSCI 30200. Course provides a greater depth of understanding into and hand-on experience with the principles discussed in NEUR 30200 or BSCI 30200. Course provides students a full understanding in the major research techniques used in neuroscience. The major topics covered include: electrophysiology, neuroanatomy, learning and memory, the neuromuscular junction and sensory perception.

**Prerequisite:** Minimum C grade in NEUR 30100 or BSCI 30100.

**Pre/corequisite:** NEUR 30200 or BSCI 30200.

**Schedule Type:** Laboratory

**Contact Hours:** 3 lab

**Grade Mode:** Standard Letter

**BSCI 30360 GENERAL ECOLOGY 4 Credit Hours**

Principles of ecology based on field studies of local plant and animal communities. Lecture three hours, lab three hours weekly.

**Prerequisite:** Minimum C- grade in BSCI 10110.

**Schedule Type:** Laboratory, Lecture

**Contact Hours:** 3 lecture, 1 lab

**Grade Mode:** Standard Letter

**BSCI 30361 BIOGEOGRAPHY 3 Credit Hours**

Geographical distribution of biotic communities with special reference to North America and to their environmental control.

**Prerequisite:** Minimum C- grade in the following courses BSCI 10110 and 10120.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**BSCI 30362 INTRODUCTION TO BIOLOGY OF THE TROPICS 3 Credit Hours**

Biology and conservation of tropical ecosystems and organisms.

**Prerequisite:** Minimum C- grade in BSCI 10110; and junior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**BSCI 30370 CLIMATE CHANGE BIOLOGY 3 Credit Hours**

This course focuses on the biological impacts of climate change. It includes background on the issue of the biological consequences of climate change, as well as the history of research, current impacts and projected changes discussed in the Inter-Governmental Panel on Climate Change report, and the controversies of climate-change skeptics. It also includes the biogeochemistry of climate change effects on biology, climate change, and biological interactions, vector-borne infectious diseases, rates of evolution, and Great Lakes biology.

**Prerequisite:** Minimum C- grade in BSCI 10110; or ENVS 22070.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**BSCI 30517 HUMAN ANATOMY 4 Credit Hours**

An intensive investigation of the anatomy and development of the human body.

**Prerequisite:** Senior standing; and special approval.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 3 lecture, 3 lab

**Grade Mode:** Standard Letter

**BSCI 30518 VERTEBRATE ANATOMY 4 Credit Hours**

Concepts and methods of functional morphology. Comparative study of vertebrate organs and systems: skeletal, muscular, digestive, respiratory, circulatory, urogenital, nervous and endocrine. Lecture three hours, lab three hours weekly.

**Prerequisite:** Minimum C- grade in BSCI 10110 or 10120.

**Schedule Type:** Laboratory, Lecture

**Contact Hours:** 3 lecture, 1 lab

**Grade Mode:** Standard Letter

**BSCI 30519 VERTEBRATE EMBRYOLOGY AND DEVELOPMENTAL ANATOMY 4 Credit Hours**

Gametogenesis, fertilization, embryogenesis, organogenesis, normal/ abnormal embryological development; emphasizing mammal; amphibian, bird illustrating general principles and concepts. Laboratory studies of frog, chick, pig developmental anatomy. Three one hour lectures and one three hour lab.

**Prerequisite:** BSCI 30518 and 30140.

**Schedule Type:** Laboratory, Lecture

**Contact Hours:** 3 lecture, 1 lab

**Grade Mode:** Standard Letter

**BSCI 30520 INTRODUCTION TO NEUROSCIENCE 3 Credit Hours**

Basic principles in neuroscience from the cellular to systems level. Covers how the nervous system is organized, how it detects sensory stimuli to create a mental representation of their environment and output pathways by which the nervous system can control movement, hormone levels and physiological processes.

**Prerequisite:** BSCI 30140.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**BSCI 30560 INVERTEBRATE ZOOLOGY 4 Credit Hours**

Survey of the animal kingdom emphasizing evolutionary developments. Three-hour lecture and three-hour lab weekly.

**Prerequisite:** Minimum C- grade in the following courses BSCI 10110 and 10120.

**Schedule Type:** Laboratory, Lecture

**Contact Hours:** 3 lecture, 3 lab

**Grade Mode:** Standard Letter

**BSCI 30580 ENTOMOLOGY 4 Credit Hours**

Classification, biology and ecology of the principal groups of insects. Lecture three hours, lab three hours weekly.

**Prerequisite:** Minimum C- grade in the following courses BSCI 10110 and 10120; and 10 hours of Biology courses.

**Schedule Type:** Laboratory, Lecture

**Contact Hours:** 3 lecture, 1 lab

**Grade Mode:** Standard Letter

**BSCI 30582 ORNITHOLOGY 4 Credit Hours**

Field study of natural history of local birds. Lecture three hours, lab three hours weekly.

**Prerequisite:** Minimum C- grade in the following courses BSCI 10110 and 10120.

**Schedule Type:** Laboratory, Lecture

**Contact Hours:** 3 lecture, 1 lab

**Grade Mode:** Standard Letter

**BSCI 30789 FEASTS AND PLAGUES: THE SCIENCE OF ITALIAN FOOD, WINE, AND DISEASE 3 Credit Hours**

This course explores the microbial mechanisms responsible for plagues such as the Black Death as well as for their positive roles in food and wine production. These costs and benefits are explored in Florence, Italy since each is ingrained in the city's history, culture, art, and biology. Course activities include food and wine tastings and field trips to historical sites and museums in Florence and Siena. This course is designed to appeal to students with a wide array of interests in human health and society. Students will analyze genomes of microbes responsible for human disease, discuss ecological and biological factors associated with disease transmission, construct cemetery life tables, discuss the impacts of disease on Italian art, architecture, and culture, master knowledge of the fermentation process, and compare and contrast the microbiomes and environments of vineyards in Tuscany vs. California.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**BSCI 40020 BIOLOGY OF AGING 3 Credit Hours**

(Slashed with BSCI 50020) Current theories of aging; changes at the cellular level associated with aging in humans; course covers the normal aging process, dysfunction, and diseases of the elderly categorized by body systems. This course may not be used to fulfill major or minor requirements in the following programs: BA Biology, BS Biology, BS Botany, BS Environmental and Conservation Biology, BS Medical Technology, BS Biotechnology, BS Zoology, and the Biological Sciences minor.

**Prerequisite:** BSCI 20019; or BSCI 21010 and BSCI 21020; or BSCI 11010 and BSCI 11020; or ATTR 25057 and ATTR 25058; or EXSC 25057 and EXSC 25058.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**BSCI 40104 INTRODUCTION TO BEEKEEPING 2 Credit Hours**

(Cross-listed with BSCI 50104) Covers basic beekeeping practices and provides students with an in-depth understanding of the honey bee colony through participation in hands-on activities, observation and experimentation.

**Prerequisite:** BSCI 10110 and 10120 with minimum C- grades; and junior or senior standing.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 1 lecture, 2 lab

**Grade Mode:** Standard Letter

**BSCI 40141 EXPERIMENTAL DESIGN AND ANALYSIS IN MOLECULAR BIOLOGY 3 Credit Hours**

(Slashed with BSCI 50141 and BSCI 70141) This course explores experimental design and analysis of biological data using tools of molecular biology. Students will study modern and classic techniques and learn the pros and cons of each technique as well as alternative approaches in the context of experiments. The course will consist of a combination of lectures, student presentations and class discussions based on recent primary literature, with particular focus on cell death and disease, including cancer.

**Prerequisite:** BSCI 30156 and BSCI 30140.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**BSCI 40142 BIOENERGETICS 3 Credit Hours**

(Cross-listed with BSCI 50142 and BSCI 70142) Lecture and discussion of respiration and photosynthesis, their origin, development and control in living systems. Concepts are introduced from fundamental principles. Lecture three hours weekly.

**Prerequisite:** BSCI 30140 and CHEM 20481 or 30481.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**BSCI 40143 EUKARYOTIC CELL BIOLOGY 3 Credit Hours**

Current survey of the structure and function of eukaryotic cells, including recent advances in research technology. Lecture three hours weekly.

**Prerequisite:** BSCI 30140 and CHEM 20481 or 30481.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**BSCI 40146 DEVELOPMENTAL BIOLOGY 3 Credit Hours**

(Cross-listed with BSCI 50146 and BSCI 70146) Fundamental concepts and paradigms of development as exemplified by major model organisms. Examines our modern understanding of the molecular, cellular and genetic basis of developmental biology.

**Prerequisite:** Minimum B grades in the following courses BSCI 30156 and BSCI 30140; and senior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**BSCI 40147 DEVELOPMENTAL NEUROBIOLOGY 3 Credit Hours**

(Slashed with BSCI 50147 and BSCI 70147) Covers fundamental principles in developmental neurobiology, including molecular and cellular processes involved in the formation of the vertebrate central nervous system.

**Prerequisite:** BSCI 30140; and junior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**BSCI 40148 PRINCIPLES OF INFECTIOUS DISEASE 3 Credit Hours**

(Slashed with BSCI 50148 and BSCI 70148) Basic principles of infectious disease, with emphasis on major human pathogens including protozoa, bacteria, and viruses. Topics include infection establishment, spread within the host, pathology, immunity, and host behavior.

**Prerequisite:** BSCI 30171; and CHEM 10060; and CHEM 10061; and CHEM 10062; and CHEM 10063.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**BSCI 40150 MOLECULAR MECHANISMS OF DISEASE: CANCER 3 Credit Hours**

(Cross-listed with BSCI 50150 and BSCI 70150) Explores the current understanding of molecular and cellular mechanisms of disease processes, including new technologies and modern strategies in the forefront of future biomedical research. Emphasis on a review of primary literature.

**Prerequisite:** BSCI 30156 and BSCI 30140; and junior or senior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**BSCI 40151 MECHANISMS OF DISEASE: OBESITY AND RELATED METABOLIC DISEASES 3 Credit Hours**

(Slashed with BSCI 50151 and BSCI 70151) Addresses obesity from multiple angles, including health and disease process, underlying physiology and cell and molecular biology, and the role of behavior. Emphasis on a review of primary literature to discuss obesity causes, consequences, and treatments.

**Prerequisite:** Minimum C- grade in BSCI 10120; and BSCI 30130 or BSCI 40430.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**BSCI 40152 MOLECULAR MECHANISMS OF DISEASE: NEUROLOGICAL DISORDERS 3 Credit Hours**

(Slashed with BSCI 50152 and BSCI 70152) Major concepts and theoretical principles underlying neurological disorders.

**Prerequisite:** Minimum C- grade in the following courses BSCI 10110 and BSCI 10120; and junior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**BSCI 40154 DIABETES AND CARDIOVASCULAR DISEASE 3 Credit Hours**

(Slashed with BSCI 50154 and BSCI 70154) Physiological aspects of diabetes and cardiovascular disease, including associated pathologies and therapies.

**Prerequisite:** BSCI 40430; or BSCI 30140 and BSCI 30130.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**BSCI 40157 NEUROBIOLOGY OF DRUG ADDICTION 3 Credit Hours**

(Slashed with BSCI 50157 and BSCI 70157) Introduction to neural structures, circuitry, and chemistry underlying drug addiction, main categories of drugs of abuse, and how brain cells and circuits are modified in response to addictive drugs.

**Prerequisite:** Minimum C- grades in BSCI 10110 and BSCI 10120; and junior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**BSCI 40158 MOLECULAR BIOLOGY 3 Credit Hours**

Molecular genetics, DNA and RNA structure, chromosomes, DNA replication, recombination, genetic transcription and translation, gene expression, current concepts and technologies.

**Prerequisite:** BSCI 30140 and 30156.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter



**BSCI 40159 MOLECULAR BIOLOGY LABORATORY (ELR) (WIC) 3 Credit Hours**

Experience in research methods for studying cellular and molecular processes in plant and animal systems.

**Prerequisite:** BSCI 30140 and 30156.

**Schedule Type:** Laboratory

**Contact Hours:** 6 lab

**Grade Mode:** Standard Letter

**Attributes:** Experiential Learning Requirement, Writing Intensive Course

**BSCI 40160 MARINE BIOLOGY 3 Credit Hours**

(Slashed with BSCI 50160 and BSCI 70160) Natural history and ecology of marine organisms, with emphasis on life in coastal habitats.

**Prerequisite:** Minimum C- grade in the following courses BSCI 10110 and BSCI 10120.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**BSCI 40162 SOIL BIOLOGY 3 Credit Hours**

(Slashed with BSCI 50162 and BSCI 70162) The ecology and physiology of organisms that live in soil, including microbes, plants and animals. The physical and chemical aspects of soil are introduced to understand how organisms in soils impact nutrient cycles and ecosystem development.

**Prerequisite:** Minimum C- grade in the following courses BSCI 10110 and BSCI 10120; and junior or senior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**BSCI 40163 EVOLUTION 3 Credit Hours**

(Cross-listed with BSCI 50163 and BSCI 70163) History of evolutionary theory, the evidences of evolution, the evolutionary forces and the products of these forces. Lecture three hours weekly.

**Prerequisite:** BSCI 30156; and 4 hours of Biology courses.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**BSCI 40166 ENVIRONMENTAL SENSOR TECHNOLOGY 2 Credit Hours**

(Slashed with BSCI 50166 and BSCI 70166) Provides learning experiences in the field of environmental wireless sensor technology for performing both isolated and collaborative tasks. Students will use practical tools for WST design.

**Prerequisite:** Special approval.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**BSCI 40170 STREAM BIOLOGY 3 Credit Hours**

(Slashed with BSCI 50170 and BSCI 70170) Identification, biology and ecology of stream-inhabiting organisms. Lecture two hours, lab three hours weekly.

**Prerequisite:** Minimum C- grade in the following courses BSCI 10110 and BSCI 10120.

**Schedule Type:** Laboratory, Lecture

**Contact Hours:** 2 lecture, 1 lab

**Grade Mode:** Standard Letter

**BSCI 40174 IMMUNOLOGY 3 Credit Hours**

(Cross-listed with BSCI 50174 and BSCI 70174) Survey of the mammalian host responses to self and non-self with emphasis on the cellular and molecular mechanisms by which innate and acquired immunity result. Experimental design and data analyses are related to current methodologies used to study immunology. Lectures 3 hours weekly.

**Prerequisite:** BSCI 30171 and CHEM 10060, 10061, 10062 and 10063.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**BSCI 40191 SENIOR SEMINAR 1 Credit Hour**

(Repeatable for credit) A capstone seminar course to examine biological topics and scientific contributions across subdisciplines. Discussion of current problems in the biological sciences related to societal needs and concerns.

**Prerequisite:** Biology major; and senior standing.

**Schedule Type:** Seminar

**Contact Hours:** 1 other

**Grade Mode:** Satisfactory/Unsatisfactory

**BSCI 40192 INTERNSHIP IN BIOLOGICAL SCIENCES (ELR) 3-12 Credit Hours**

(Repeatable for credit) Work experience and training in the biological sciences under the supervision of appropriate personnel in a government agency, nonprofit organization or business. Maximum of 4 credit hours to count toward BSCI degrees as upper division elective hours.

**Prerequisite:** 18 hours of Biology; and 2.750 minimum overall GPA in Biology coursework; and special approval.

**Schedule Type:** Practical Experience

**Contact Hours:** 3-12 other

**Grade Mode:** Standard Letter

**Attributes:** Experiential Learning Requirement

**BSCI 40193 VARIABLE TITLE WORKSHOP IN BIOLOGICAL SCIENCES 1-6 Credit Hours**

(Repeatable for credit) Topics to be offered will meet specific needs in the biological sciences.

**Prerequisite:** Permission.

**Schedule Type:** Workshop

**Contact Hours:** 1-6 other

**Grade Mode:** Satisfactory/Unsatisfactory

**BSCI 40195 SPECIAL TOPICS IN BIOLOGY 1-3 Credit Hours**

(Repeatable for credit) (Cross-listed with BSCI 50195 and BSCI 70195) Special topics in biology.

**Prerequisite:** 18 hours of Biology coursework; and special approval of instructor.

**Schedule Type:** Laboratory, Lecture

**Contact Hours:** 1-3 lecture, 2-6 lab

**Grade Mode:** Standard Letter-IP

**BSCI 40196 INDIVIDUAL INVESTIGATION (ELR) 1-3 Credit Hours**

(Repeatable for credit) Research study under the direction of a BSCI faculty mentor. May be repeated; however, a maximum of 6 credit hours count toward BSCI degrees as upper-division elective hours.

**Prerequisite:** A minimum BSCI grade average of 2.750; and at least 18 credit hours of BSCI coursework; and departmental and faculty mentor approvals required.

**Schedule Type:** Individual Investigation

**Contact Hours:** 1-3 other

**Grade Mode:** Standard Letter-IP

**Attributes:** Experiential Learning Requirement



**BSCI 40199 SENIOR HONORS THESIS (ELR) 1-10 Credit Hours**  
(Repeatable for credit) Honors thesis research project completed during the senior year with BSCI faculty mentor and research committee. Maximum of 4 credit hours to count toward BSCI degrees as upper division elective hours.

**Prerequisite:** Departmental faculty mentor; and honors college approval.

**Schedule Type:** Senior Project/Honors Thesis

**Contact Hours:** 1-10 other

**Grade Mode:** Standard Letter-IP

**Attributes:** Experiential Learning Requirement

**BSCI 40220 BIOINFORMATICS 3 Credit Hours**  
(Cross-listed with BTEC 40220) (Slashed with BSCI 50220 and BSCI 70220) Analysis of biological databases, including nucleic acid and protein sequence searching, multiple sequence alignment, protein classification, phylogenetic analysis, comparative genomics, proteomics and protein structure analysis.

**Prerequisite:** BSCI 30140 and BSCI 30156 and BSCI 40158.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**BSCI 40221 ECOLOGICAL GENOMICS 3 Credit Hours**  
(Slashed with BSCI 50221 and BSCI 70221) Covers principles, concepts and techniques of ecological genomics, emphasizing the application of genomics to ecology and biogeochemistry and using genomic, metagenomic and metatranscriptomic data.

**Prerequisite:** BSCI 30140; and BSCI 30156; and BSCI 30360.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**BSCI 40222 INVASION BIOLOGY 3 Credit Hours**  
(Slashed with BSCI 50222 and BSCI 70222) This course will provide an overview of the science of biological invasions, focusing on the processes of introduction, establishment, and spread. It will discuss both invasions of species from other countries as well as encroachment of native species. The economic and ecological impacts of both plant and animal invasive species, as well as ways of combating the harmful effects of invasions will be discussed. Prerequisite: BSCI 10110

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**BSCI 40224 QUANTITATIVE METHODS IN BIOLOGY 4 Credit Hours**  
Introduction to the quantitative skills required of practicing biologists (experimental design, graphing, inference, and management of biological data). Real data from biological studies will be used to address fundamental questions in the biological sciences. Laboratory exercises will give experience with spreadsheet and statistical software used by practicing biologists.

**Prerequisite:** Minimum C- grade in BSCI 10110 or BSCI 10120; and minimum 55 ALEKS math score, or MATH 10675 or MATH 10775 or MATH 11010 with minimum C- grade.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 3 lecture, 2 lab

**Grade Mode:** Standard Letter

**BSCI 40242 SEMINAR ON MEDICAL PRACTICE FOR UNDERSERVED POPULATIONS 2 Credit Hours**  
(Slashed with BSCI 50242). Course will introduce students to primary care and medical practice in rural and urban settings. Physicians and other healthcare practitioners from rural and urban settings will serve as invited speakers in this seminar. Preference for registration will be given to students following the Baccalaureate-MD program with junior standing and minimum 3.500 overall GPA.

**Prerequisite:** Special approval.

**Schedule Type:** Seminar

**Contact Hours:** 2 other

**Grade Mode:** Satisfactory/Unsatisfactory

**BSCI 40272 PLANT ANATOMY 4 Credit Hours**  
(Slashed with BSCI 50272 and BSCI 70272) Development and structure of cells, tissues and tissue systems of seed plants. Both vegetative and reproductive structures of angiosperms will be emphasized. Lecture two hours, lab six hours weekly.

**Prerequisite:** Minimum C- grade in the following courses BSCI 10110 and BSCI 10120.

**Schedule Type:** Laboratory, Lecture

**Contact Hours:** 2 lecture, 6 lab

**Grade Mode:** Standard Letter

**BSCI 40273 INTRODUCTION TO MYCOLOGY 3 Credit Hours**  
(Slashed with BSCI 50273 and BSCI 70273) Introduces key features defining the fungi. Topics include anatomical and morphological features, reproductive strategies, identification, and community interactions.

**Prerequisite:** Minimum C- grade in the following courses BSCI 10110 and BSCI 10120.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**BSCI 40274 PLANT COMMUNITIES OF OHIO 3 Credit Hours**  
(Slashed with BSCI 50274 and BSCI 70274) Designed to familiarize students with the range of plant communities within Ohio by relating plant identification to biological, hydrological, geological, and climatic forces.

**Prerequisite:** Minimum C- grade in the following courses BSCI 10110 and BSCI 10120.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**BSCI 40275 PLANT SYSTEMATICS AND EVOLUTION 4 Credit Hours**  
(Slashed with BSCI 50275 and BSCI 70275) Introduction to vascular plant diversity, with a focus on flowering plants. Students will learn characteristics of vascular plants and how to identify major plant groups. Lecture three hours weekly, lab two hours weekly.

**Prerequisite:** Minimum C- grade in the following courses BSCI 10110 and BSCI 10120.

**Schedule Type:** Laboratory, Lecture

**Contact Hours:** 3 lecture, 1 lab

**Grade Mode:** Standard Letter

**BSCI 40292 INTERNSHIP IN PRIMARY CARE FOR THE UNDERSERVED (ELR) 2 Credit Hours**

(Slashed with BSCI 50292) Students will be placed in internships in urban or rural healthcare settings. Registration preference will be given to students following the Baccalaureate/M.D. pathway and who have junior standing and a minimum 3.500 overall GPA.

**Prerequisite:** Special approval.

**Schedule Type:** Practical Experience

**Contact Hours:** 6 other

**Grade Mode:** Standard Letter

**Attributes:** Experiential Learning Requirement

**BSCI 40341 STEM CELL BIOLOGY: PRINCIPLES AND APPLICATIONS 3 Credit Hours**

(Slashed with BSCI 50341 and BSCI 70341) Examination of stem cells from various tissues, molecular mechanism of stem cell differentiation, and use of stem cells in clinical applications.

**Prerequisite:** BSCI 30140.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**BSCI 40360 ICHTHYOLOGY 4 Credit Hours**

Basic biology, natural history, behavior and ecology of the fishes. Three hour lecture and three hour lab weekly.

**Prerequisite:** Minimum C- grade in the following courses BSCI 10110 and BSCI 10120; and junior standing.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 3 lecture, 3 lab

**Grade Mode:** Standard Letter

**BSCI 40363 MICROBIAL ECOLOGY 3 Credit Hours**

(Slashed with BSCI 50363 and BSCI 70363) Microbial interactions with their biotic and abiotic environment; control of distribution and physiological activities; biochemical cycles; current techniques; emphasis on bacteria in aquatic systems.

**Prerequisite:** BSCI 30171 and BSCI 30360.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**BSCI 40364 LIMNOLOGY 3 Credit Hours**

(Cross-listed with BSCI 50364 and BSCI 70364) The study of the principles of aquatic ecology with emphasis on lakes and reservoirs.

**Prerequisite:** BSCI 30360.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**BSCI 40365 FIELD METHODS IN ORNITHOLOGY (ELR) 3 Credit Hours**

(Slashed with BSCI 50365 and BSCI 70365) Habitat-based survey of Ohio birds. Field-based lectures and activities cover location, observation and identification of birds and their songs, as well as bird ecology and behavior.

**Prerequisite:** Minimum C- grade in the following courses BSCI 10110 and 10120.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Experiential Learning Requirement

**BSCI 40368 WETLAND ECOLOGY AND MANAGEMENT (ELR) 4 Credit Hours**

(Slashed with BSCI 50368 and BSCI 70368) Lecture, laboratory and field study of the principles of wetland ecology including adaptations of the biota to environmental conditions, comparison among different wetland habitat types and habitat management. Lecture 3 hours, lab 3 hours weekly.

**Prerequisite:** Minimum C- grade in the following courses BSCI 10110 and 10120; and 10 hours of Biology coursework.

**Schedule Type:** Laboratory, Lecture

**Contact Hours:** 3 lecture, 1 lab

**Grade Mode:** Standard Letter

**Attributes:** Experiential Learning Requirement

**BSCI 40374 CONSERVATION BIOLOGY (ELR) 4 Credit Hours**

(Cross-listed with BSCI 50374 and BSCI 70374) Provides a critical analysis of the factors that threaten biological diversity in the biosphere and the consequences on biological processes and quality of life.

**Prerequisite:** BSCI 30360.

**Schedule Type:** Lecture

**Contact Hours:** 4 lecture

**Grade Mode:** Standard Letter

**Attributes:** Experiential Learning Requirement

**BSCI 40375 ENVIRONMENTAL BIOLOGY AND MANAGEMENT 4 Credit Hours**

(Slashed with BSCI 50375 and BSCI 70375) Introduction to current concepts in applied ecology and ecosystem management. Students will learn aspects of ecosystem management and restoration including: 1) how environmental factors affect organism survival and ecosystem structure, 2) how human impacts such as pollution, habitat fragmentation, introduction of invasive species affect ecosystems, and 3) the use of ecological principles and methods to restore and manage ecosystems.

**Prerequisite:** Minimum C- grade in the following courses BSCI 10110 and BSCI 10120; and BSCI 30360.

**Schedule Type:** Lecture

**Contact Hours:** 4 lecture

**Grade Mode:** Standard Letter

**BSCI 40376 TROPICAL FIELD BIOLOGY AND CONSERVATION (ELR) 5 Credit Hours**

(Slashed with BSCI 50376 and BSCI 70376) Introduction to major issues in tropical ecology and conservation including the threats to the biological diversity of tropical ecosystems resulting from human activities. Students learn how to apply modern field-observation techniques to generate and test problem-solving hypotheses.

**Prerequisite:** Minimum C- grade in the following courses BSCI 10110 and BSCI 10120; junior or senior standing.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 3 lecture, 6 lab

**Grade Mode:** Standard Letter

**Attributes:** Experiential Learning Requirement

**BSCI 40380 BIOGEOCHEMISTRY 3 Credit Hours**

(Cross-listed with GEOL 40380 and GEOL 50380) (Slashed with BSCI 50380 and BSCI 70380) Biogeochemistry explores the chemical, physical, geological, and biological processes and reactions that shape the world around us, and provides tools for understanding human alterations to global systems. In this course, we will explore elemental cycles in diverse terrestrial and aquatic ecosystems, as well as assess how humans have drastically altered these elemental cycles on a global scale, and the implications of these changes for biological systems.

**Prerequisite:** Minimum C- grade in the following courses BSCI 10110 and BSCI 10120 or GEOL 11040 and (GEOL 11042 or GEOL 21062 or GEOL 21080); and CHEM 10060 and CHEM 10062.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**BSCI 40430 ANIMAL PHYSIOLOGY 3 Credit Hours**

Physiologic principles and concepts.

**Prerequisite:** BSCI 30140; CHEM 10060, 10061, 10062 and 10063.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**BSCI 40431 NEUROENDOCRINOLOGY 3 Credit Hours**

(Slashed with BSCI 50431 and BSCI 70431) This course is an introduction to neuroendocrinology. There will be a focus on the major sources of neurohormones, the different classes of neurohormones, as well as how neurohormones are regulated, how they signal, and how they function. This course will integrate aspects of endocrinology, neuroscience, and physiology. After completion of this course students should have a basic understanding of the various neuroendocrine messengers and how they function.

**Prerequisite:** BSCI 30130 or BSCI 40430 or BSCI 40460 or NEUR 30100.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**BSCI 40432 ENDOCRINOLOGY 3 Credit Hours**

(Cross-listed with BSCI 50432 and BSCI 70432) Principles of endocrine regulation of physiological and metabolic processes. Morphological and functional interrelationships between systems. Lecture three hours.

**Prerequisite:** BSCI 30130 or BSCI 40430.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**BSCI 40433 MAMMALIAN PHYSIOLOGY I 3 Credit Hours**

Physiology of the endocrine, nervous, and reproductive systems.

**Prerequisite:** BSCI 30140 and CHEM 10060 and CHEM 10061 and CHEM 10062 and CHEM 10063; and CHEM 20481 or 30481.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**BSCI 40434 MAMMALIAN PHYSIOLOGY II 3 Credit Hours**

Physiology of cardiovascular, renal, respiratory and digestive systems. Lecture three hours.

**Prerequisite:** BSCI 30140 and CHEM 10060 and CHEM 10061 and CHEM 10062 and CHEM 10063; and CHEM 20481 or 30481.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**BSCI 40450 BIOLOGICAL CLOCKS 2 Credit Hours**

(Cross-listed with BSCI 50450 and BSCI 70450) Topics covered include the characteristics of biological clocks, their ecology, molecular biology, and neurobiology, the function and organization of sleep, and the medical implications of biological rhythmicity.

**Prerequisite:** BSCI 30156; and BSCI 30520 or 40430 or 40433 or PSYC 41363.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**BSCI 40460 ADVANCED HUMAN PHYSIOLOGY 3 Credit Hours**

(Slashed with BSCI 50460 and BSCI 70460) Major concepts and theoretical principles of human physiology, including nervous, endocrine, cardiovascular, respiratory, renal, gastrointestinal and reproductive systems.

**Prerequisite:** BSCI 30140; and junior standing.

**Corequisite:** BSCI 40462.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**BSCI 40462 ADVANCED HUMAN PHYSIOLOGY: READINGS AND CASE STUDIES 1 Credit Hour**

(Slashed with BSCI 50462 and BSCI 70462) Designed to complement the lecture course in Advanced Human Physiology. Students will read primary literature in physiology and work independently and in groups to apply their knowledge to solving case studies.

**Prerequisite:** BSCI 30140; and junior standing.

**Corequisite:** BSCI 40460.

**Schedule Type:** Lecture

**Contact Hours:** 1 lecture

**Grade Mode:** Standard Letter

**BSCI 40463 MEDICAL BIOTECHNOLOGY 3 Credit Hours**

(Slashed with BSCI 50463 and BSCI 70463) (Cross-listed BTEC 40463) Medical Biotechnology provides a basic understanding of how living cells and cellular materials can be used for medical applications, particularly in the diagnosis and therapy of human diseases.

**Prerequisite:** BSCI 30140.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**BSCI 40466 MEDICAL AND VETERINARY ENTOMOLOGY 3 Credit Hours**

(Slashed with BSCI 50466 and BSCI 70466) This course covers the ecology of flies, lice, ticks, spiders, and other arthropods with a medical or veterinary importance. The course will consist of lectures and discussions on topics including evolutionary adaptations and lifecycles, allergic responses, disease transmission, forensic entomology, entomophobia, veterinary pests, and pest control techniques.

**Prerequisite:** Minimum C- grade in the following courses BSCI 10110 and BSCI 10120.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**BSCI 40515 ANIMAL BEHAVIOR 3 Credit Hours**

Explores the evolution of various animal behaviors, the functions they might serve, and the interplay among the social, ecological and physiological mechanisms that regulate their occurrence.

**Prerequisite:** Minimum C- grade in the following courses BSCI 10110 and BSCI 10120; and 6 additional hours of Biology courses.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**BSCI 40517 MEDICAL HISTOLOGY 3 Credit Hours**

(Slashed with BSCI 50517 and BSCI 70517) Study of the microscopic and submicroscopic structure of the human body in relation to function. Lecture two hours, lab three hours weekly.

**Prerequisite:** Minimum C- grade in the following courses BSCI 10110 and BSCI 10120; and BSCI 30140.

**Schedule Type:** Laboratory, Lecture

**Contact Hours:** 2 lecture, 3 lab

**Grade Mode:** Standard Letter

**BSCI 40519 HORMONES AND BEHAVIOR 3 Credit Hours**

(Slashed with BSCI 50519 and BSCI 70519) Current concepts of hormone and behavior interactions across species.

**Prerequisite:** Minimum C- grade in the following courses BSCI 10110 and BSCI 10120; and junior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**BSCI 40520 BEHAVIORAL EVOLUTION (WIC) 3 Credit Hours**

(Cross-listed with BSCI 50520 and BSCI 70520) Examination of how behavior contributes to survival and reproduction in an ecological context. We consider how behavior may have evolved in a wide range of animals.

**Prerequisite:** BSCI 40163.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Writing Intensive Course

**BSCI 40525 WILDLIFE RESOURCES (ELR) 3 Credit Hours**

(Slashed with BSCI 50525 and BSCI 70525) Ecological parameters are discussed relative to the preservation and management of wild animal populations. Aesthetic, economic and environmental values are discussed. Lecture three hours weekly.

**Prerequisite:** Minimum C- grade in BSCI 10110; plus 4 hours of Biology coursework.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Experiential Learning Requirement

**BSCI 40556 VERTEBRATE ZOOLOGY 4 Credit Hours**

(Slashed with BSCI 50556 and BSCI 70556) Field approach to identification and natural history of all Ohio vertebrates except birds. Lecture three hours, lab and field three hours weekly.

**Prerequisite:** Minimum C- grade in the following courses BSCI 10110 and BSCI 10120; and 4 hours of Biology coursework.

**Schedule Type:** Laboratory, Lecture

**Contact Hours:** 3 lecture, 3 lab

**Grade Mode:** Standard Letter

**BSCI 40558 MAMMALOGY 3 Credit Hours**

(Slashed with BSCI 50558 and BSCI 70558) This course will explore the biology of mammals. The course is organized into three sections. Section 1 will define what a mammal is and explore their origin, evolution, and modern distribution. Section 2 will survey modern mammal taxonomic diversity. Section 3 will explore the environmental physiology and various ecological roles that mammals play using specific case studies of mammalian ecological interactions in the world's major biomes.

**Prerequisite:** Minimum C- grade in BSCI 10110.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**BSCI 40560 HERPETOLOGY 3 Credit Hours**

(Slashed with BSCI 50560 and BSCI 70560) This course will explore the biology of amphibians and reptiles. The course is organized into three sections. Section 1 we will explore their origin, evolution, and modern diversity of amphibians and reptiles (Yes, you will be required to memorize a whole mess of taxonomic names!). Section 2 will survey various aspects of the biology of amphibians and reptiles. Section 3 will explore the various aspects of the ecology of amphibians and reptiles, and examine a few critical topics in amphibian and reptile conservation.

**Prerequisite:** Minimum C- grade in BSCI 10110.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**BSCI 40581 ANIMAL PARASITOLOGY 4 Credit Hours**

(Slashed with BSCI 50581) Morphology, physiology, life-histories, systematics and economic importance of parasites. Lecture two hours lab, six hours weekly.

**Prerequisite:** Minimum C- grade in the following courses BSCI 10110 and BSCI 10120; and 4 hours of Biology coursework.

**Schedule Type:** Laboratory, Lecture

**Contact Hours:** 2 lecture, 6 lab

**Grade Mode:** Standard Letter

**BSCI 40600 WRITING IN THE BIOLOGICAL SCIENCES (WIC) 1 Credit Hour**

Writing-intensive course taken with a 3- or 4-credit-hour upper-division biology course. This course may be used to satisfy the writing-intensive course requirement with approval of major department.

**Prerequisite:** Biology major; and junior standing.

**Schedule Type:** Lecture

**Contact Hours:** 1 lecture

**Grade Mode:** Standard Letter

**Attributes:** Writing Intensive Course

**BSCI 41110 BIOPHOTONICS 3 Credit Hours**

(Slashed with BSCI 51110; Cross-listed with CHEM 41010 and CHEM 41010 and PHY 41010 and PHY 51010). Interdisciplinary overview of the basics of biophotonics; application of biophotonic techniques to probe biological samples. Introduction to the foundations of optics and photonics and how the molecular structure of organic molecules translates into unique photonic properties and targeting in biological cells or tissue. Preparation of fluorescent materials, advanced spectroscopy and cell visualization using regular and confocal fluorescence microscopy.

**Prerequisite:** Special approval.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 1 lecture, 6 lab

**Grade Mode:** Standard Letter



**BSCI 41120 BIOLOGICAL LIGHT MICROSCOPY 3 Credit Hours**  
(Slashed with BSCI 51120 and BSCI 71120) Theoretical and practical information on the operation of optical microscopes, the application of transmission and fluorescence microscopy to biological specimens, and analysis of microscopic images.

**Prerequisite:** BSCI 30140.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**BSCI 50020 BIOLOGY OF AGING 3 Credit Hours**  
(Cross-listed with BSCI 40020) Current theories of aging; changes at the cellular level associated with aging in humans; course covers the normal aging process, dysfunction, and diseases of the elderly by body systems.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**BSCI 50104 INTRODUCTION TO BEEKEEPING 2 Credit Hours**  
Covers basic beekeeping practices and provides students with an in-depth understanding of the honey bee colony through participation in hands-on activities, observation and experimentation. This course may not be used to fulfill degree requirements in the MS or MA Biology programs.

**Prerequisite:** Graduate standing.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 1 lecture, 2 lab

**Grade Mode:** Standard Letter

**BSCI 50105 CAREER PATHWAYS IN BIOLOGY 1 Credit Hour**  
This course orients students to graduate studies and to various career pathways in the biological sciences. Students will learn about a variety of possible careers, and prepare application materials needed to enter the workforce or apply to additional graduate programs.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 1 lecture

**Grade Mode:** Satisfactory/Unsatisfactory

**BSCI 50141 EXPERIMENTAL DESIGN AND ANALYSIS IN MOLECULAR BIOLOGY 3 Credit Hours**  
(Slashed with BSCI 40141 and BSCI 70141) This course explores experimental design and analysis of biological data using tools of molecular biology. Students will study modern and classic techniques and learn the pros and cons of each technique as well as alternative approaches in the context of experiments. The course will consist of a combination of lectures, student presentations and class discussions based on recent primary literature, with particular focus on cell death and disease, including cancer.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**BSCI 50142 BIOENERGETICS 3 Credit Hours**  
(Cross-listed with BSCI 40142 and BSCI 70142) Lecture and discussion of respiration and photosynthesis, their origin development and control in living systems. Concepts are introduced from fundamental principles. Lecture three hours weekly.

**Prerequisite:** BSCI 40430; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**BSCI 50143 EUKARYOTIC CELL BIOLOGY 3 Credit Hours**  
(Cross-listed with BSCI 40143 and BSCI 70143) Current survey of the structure and function of eukaryotic cells, including recent advances in research technology. Lecture three hours weekly.

**Prerequisite:** BSCI 40430; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**BSCI 50146 DEVELOPMENTAL BIOLOGY 3 Credit Hours**  
(Cross-listed with BSCI 40146 and BSCI 70146) Fundamental concepts and paradigms of development as exemplified by major model organisms. This course will examine our modern understanding of the molecular, cellular and genetic basis of developmental biology.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**BSCI 50147 DEVELOPMENTAL NEUROBIOLOGY 3 Credit Hours**  
(Slashed with BSCI 40147 and BSCI 70147) Covers fundamental principles in developmental neurobiology, including molecular and cellular processes involved in the formation of the vertebrate central nervous system.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**BSCI 50148 PRINCIPLES OF INFECTIOUS DISEASE 3 Credit Hours**  
(Slashed with BSCI 40148 and BSCI 70148) Basic principles of infectious disease, with emphasis on major human pathogens including protozoa, bacteria, and viruses. Topics include infection establishment, spread within the host, pathology, immunity, and host behavior.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**BSCI 50150 MOLECULAR MECHANISMS OF DISEASE: CANCER 3 Credit Hours**  
(Cross-listed with BSCI 40150 and BSCI 70150) Explores the current understanding of molecular and cellular mechanisms of disease processes, including new technologies and modern strategies in the forefront of future biomedical research. Emphasis on a review of primary literature.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**BSCI 50151 MECHANISMS OF DISEASE: OBESITY AND RELATED METABOLIC DISEASES 3 Credit Hours**  
(Slashed with BSCI 40151 and BSCI 70151) Addresses obesity from multiple angles, including health and disease process, underlying physiology and cell and molecular biology, and the role of behavior. Emphasis on a review of primary literature to discuss obesity causes, consequences and treatments.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter



**BSCI 50152 MOLECULAR MECHANISMS OF DISEASE: NEUROLOGICAL DISORDERS 3 Credit Hours**

(Slashed with BSCI 40152 and BSCI 70152) Major concepts and theoretical principles underlying neurological disorders.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**BSCI 50154 DIABETES AND CARDIOVASCULAR DISEASE 3 Credit Hours**

(Slashed with BSCI 40154 and BSCI 70154) This course covers physiological aspects of diabetes and cardiovascular disease, including associated pathologies and therapies.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**BSCI 50157 NEUROBIOLOGY OF DRUG ADDICTION 3 Credit Hours**

(Slashed with BSCI 40157 and BSCI 70157) Introduction to neural structures, circuitry, and chemistry underlying drug addiction, main categories of drugs of abuse, and how brain cells and circuits are modified in response to addictive drugs.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**BSCI 50158 MOLECULAR BIOLOGY 3 Credit Hours**

(Cross-listed with BSCI 40158 and BSCI 70158) Molecular genetics, DNA and RNA structure, chromosomes DNA replication, recombination, genetic transcription and translation, gene expression, current concepts and technologies.

**Prerequisite:** BSCI 30156; and Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**BSCI 50159 MOLECULAR BIOLOGY LABORATORY 3 Credit Hours**

(Cross-listed with BSCI 40159 and BSCI 70159) Experience in research methods for studying cellular and molecular processes in plant and animal systems.

**Prerequisite:** Graduate standing; and special approval from instructor.

**Schedule Type:** Laboratory

**Contact Hours:** 9 lab

**Grade Mode:** Standard Letter

**BSCI 50160 MARINE BIOLOGY 3 Credit Hours**

(Cross-listed with BSCI 40160 and BSCI 70160) Natural history and ecology of marine organisms, with emphasis on life in coastal habitats. Lecture three hours weekly.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**BSCI 50162 SOIL BIOLOGY 3 Credit Hours**

(Cross-listed with BSCI 40162 and BSCI 70162) The ecology and physiology of organisms that live in soil, including microbes, plants and animals. The physical and chemical aspects of soil are introduced to understand how organisms in soils impact nutrient cycles and ecosystem development.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**BSCI 50163 EVOLUTION 3 Credit Hours**

Discussion of the history of evolutionary theory, the evidence of evolution the evolutionary forces and the products of those forces.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**BSCI 50166 ENVIRONMENTAL SENSOR TECHNOLOGY 2 Credit Hours**

(Slashed with BSCI 40166 and BSCI 70166) Provides learning experiences in the field of environmental wireless sensor technology for performing both isolated and collaborative tasks. Students will use practical tools for WST design.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**BSCI 50170 STREAM BIOLOGY 3 Credit Hours**

(Slashed with BSCI 40170 and BSCI 70170) Identification, biology and ecology of stream-inhabiting organisms. Lecture two hours, laboratory three hours weekly.

**Prerequisite:** Graduate standing.

**Schedule Type:** Laboratory, Lecture

**Contact Hours:** 2 lecture, 1 lab

**Grade Mode:** Standard Letter

**BSCI 50174 IMMUNOLOGY 3 Credit Hours**

(Cross-listed with BSCI 40174 and BSCI 70174) Survey of the mammalian host responses to self and non-self with emphasis on the cellular and molecular mechanisms by which innate and acquired immunity result. Experimental design and data analyses are related to current methodologies used to study immunology. Lecture three hours weekly. Graduate standing.

**Prerequisite:** BSCI 30171 and CHEM 10060, 10061 and 10062.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**BSCI 50193 VARIABLE TITLE WORKSHOP IN BIOLOGICAL SCIENCES 1-6 Credit Hours**

(Repeatable for credit) Topics to be offered will meet specific needs in the biological sciences.

**Prerequisite:** Permission; and graduate standing.

**Schedule Type:** Workshop

**Contact Hours:** 1-6 other

**Grade Mode:** Satisfactory/Unsatisfactory

**BSCI 50195 SPECIAL TOPICS IN BIOLOGY 1-3 Credit Hours**  
(Repeatable for credit) (Cross-listed with BSCI 40195 and BSCI 70195)  
Special topics in biology.

**Prerequisite:** Graduate standing; and special approval of instructor.

**Schedule Type:** Laboratory, Lecture

**Contact Hours:** 1-3 lecture, 2-6 lab

**Grade Mode:** Standard Letter-IP

**BSCI 50196 INDIVIDUAL INVESTIGATION 1-3 Credit Hours**  
(Repeatable for credit) (Cross-listed with BSCI 40196 and BSCI 70196)  
Individual investigation in biology.

**Prerequisite:** Graduate standing; and special approval of instructor.

**Schedule Type:** Individual Investigation

**Contact Hours:** 1-3 other

**Grade Mode:** Standard Letter-IP

**BSCI 50220 BIOINFORMATICS 3 Credit Hours**  
(Cross-listed with BTEC 40220) (Slashed with BSCI 40220 and BSCI 70220) Analysis of biological databases, including nucleic acid and protein sequence searching, multiple sequence alignment, protein classification, phylogenetic analysis, comparative genomics, proteomics, protein structure analysis.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**BSCI 50221 ECOLOGICAL GENOMICS 3 Credit Hours**  
(Slashed with BSCI 40221 and BSCI 70221) Covers principles, concepts and techniques of ecological genomics, emphasizing the application of genomics to ecology and biogeochemistry and using genomic, metagenomic, and metatranscriptomic data.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**BSCI 50222 INVASION BIOLOGY 3 Credit Hours**  
(Slashed with BSCI 40222 and BSCI 70222) This course will provide an overview of the science of biological invasions, focusing on the processes of introduction, establishment, and spread. It will discuss both invasions of species from other countries as well as encroachment of native species. The economic and ecological impacts of both plant and animal invasive species, as well as ways of combating the harmful effects of invasions will be discussed.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**BSCI 50242 SEMINAR ON MEDICAL PRACTICE FOR UNDERSERVED POPULATIONS 2 Credit Hours**  
(Slashed with BSCI 40242). Course will introduce students to primary care and medical practice in rural and urban settings. Physicians and other healthcare practitioners from rural and urban settings will serve as invited speakers in this seminar. Preference for registration will be given to students following the MA-MD program.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Seminar

**Contact Hours:** 2 other

**Grade Mode:** Satisfactory/Unsatisfactory

**BSCI 50272 PLANT ANATOMY 4 Credit Hours**  
(Cross-listed with BSCI 40272 and BSCI 70272) Development and structure of cells, tissues and tissue systems of seed plants. Both vegetative and reproductive structures of angiosperms will be emphasized. Lecture two hours, laboratory six hours weekly.

**Prerequisite:** Graduate standing.

**Schedule Type:** Laboratory, Lecture

**Contact Hours:** 3 lecture, 1 lab

**Grade Mode:** Standard Letter

**BSCI 50273 INTRODUCTION TO MYCOLOGY 3 Credit Hours**  
(Slashed with BSCI 40273 and BSCI 70273) Introduces the key features defining the fungi. Topics include anatomical and morphological features, reproductive strategies, identification, and community interactions.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**BSCI 50274 PLANT COMMUNITIES OF OHIO 3 Credit Hours**  
(Slashed with BSCI 40274 and BSCI 70274) Designed to familiarize students with the range of plant communities within Ohio by relating plant identification to biological, hydrological, geological, and climatic forces.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**BSCI 50275 PLANT SYSTEMATICS AND EVOLUTION 4 Credit Hours**  
(Cross-listed with BSCI 40275 and BSCI 70275) Introduction to vascular plant diversity, with a focus on flowering plants. Students will learn characteristics of vascular plants and how to identify major plant groups. Lecture three hours weekly, lab two hours weekly.

**Prerequisite:** Graduate standing.

**Schedule Type:** Laboratory, Lecture

**Contact Hours:** 3 lecture, 1 lab

**Grade Mode:** Standard Letter

**BSCI 50292 INTERNSHIP IN PRIMARY CARE FOR THE UNDERSERVED 2 Credit Hours**  
Students will be placed in internships in urban or rural healthcare settings. Preference will be given to students following the MA-MD program.

**Prerequisite:** Graduate Standing; and special approval.

**Schedule Type:** Practical Experience

**Contact Hours:** 6 other

**Grade Mode:** Standard Letter

**BSCI 50341 STEM CELL BIOLOGY: PRINCIPLES AND APPLICATIONS 3 Credit Hours**  
(Slashed with BSCI 40341 and BSCI 70341) Examination of stem cells from various tissues, molecular mechanism of stem cell differentiation, and use of stem cells in clinical applications.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**BSCI 50360 ICHTHYOLOGY 4 Credit Hours**

(Cross-listed with BSCI 40360 and 70360) Basic biology, natural history, behavior and ecology of the fishes. Three hour lecture and three hour lab weekly.

**Prerequisite:** Graduate standing.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 3 lecture, 3 lab

**Grade Mode:** Standard Letter

**BSCI 50363 MICROBIAL ECOLOGY 3 Credit Hours**

(Cross-listed with BSCI 40363 and BSCI 70363) Microbial interactions with their biotic and abiotic environment; control of distribution and physiological activities; emphasis on bacteria in aquatic systems.

**Prerequisite:** BSCI 30171, 30360; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**BSCI 50364 LIMNOLOGY 3 Credit Hours**

(Cross-listed with BSCI 40364 and BSCI 70364) The study of the principles of aquatic ecology with emphasis on lakes and reservoirs.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**BSCI 50365 FIELD METHODS IN ORNITHOLOGY 3 Credit Hours**

(Slashed with BSCI 40365 and BSCI 70365) Habitat-based survey of Ohio birds. Field-based lectures and activities cover location, observation and identification of birds and their songs, as well as bird ecology and behavior.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**BSCI 50368 WETLAND ECOLOGY AND MANAGEMENT 4 Credit Hours**

(Cross-listed with BSCI 40368 and BSCI 70368) Lecture, laboratory and field study of the principles of wetland ecology including adaptations of the biota to environmental conditions, comparison among different wetland habitat types and habitat management. Lecture 3 hours lab 3 hours weekly.

**Prerequisite:** Graduate standing.

**Schedule Type:** Laboratory, Lecture

**Contact Hours:** 3 lecture, 1 lab

**Grade Mode:** Standard Letter

**BSCI 50370 ECOLOGICAL AND EVOLUTIONARY GENETICS 2 Credit Hours**

(Cross-listed with BSCI 70370) Genetic and genomic approaches to studying ecology and evolution in populations and communities.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**BSCI 50371 EVOLUTIONARY BIOLOGY 2 Credit Hours**

(Cross-listed with BSCI 70371) Theoretical and experimental approaches to studying evolution from genes to populations and communities.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**BSCI 50372 COMMUNITIES AND ECOSYSTEMS 2 Credit Hours**

(Cross-listed with BSCI 70372) Theory and experimental approaches to studying community and ecosystem ecology.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**BSCI 50373 POPULATION AND COMMUNITY ECOLOGY 2 Credit Hours**

(Cross-listed with BSCI 70373) Theory and experimental approaches to studying population and community ecology.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**BSCI 50374 CONSERVATION BIOLOGY 4 Credit Hours**

(Cross-listed with BSCI 40374 and BSCI 70374) Provides a critical analysis of the factors that threaten biological diversity in the biosphere and the consequences on biological processes and quality of life.

**Prerequisite:** BSCI 30360; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 4 lecture

**Grade Mode:** Standard Letter

**BSCI 50375 ENVIRONMENTAL BIOLOGY AND MANAGEMENT 4 Credit Hours**

(Cross-listed with BSCI 40375 and BSCI 70375) Introduction to current concepts in applied ecology and ecosystem management. Students will learn aspects of ecosystem management and restoration including: 1) how environmental factors affect organism survival and ecosystem structure, 2) how human impacts such as pollution, habitat fragmentation, introduction of invasive species affect ecosystems, and 3) the use of ecological principles and methods to restore and manage ecosystems.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 4 lecture

**Grade Mode:** Standard Letter

**BSCI 50376 TROPICAL FIELD BIOLOGY AND CONSERVATION 5 Credit Hours**

(Cross-listed with BSCI 40376 and BSCI 70376) Introduction to major issues in tropical ecology and conservation including the threats to the biological diversity of tropical ecosystems resulting from human activities. Students learn how to apply modern field-observation techniques to generate and test problem-solving hypotheses.

**Prerequisite:** Graduate standing.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 3 lecture, 6 lab

**Grade Mode:** Standard Letter

**BSCI 50380 BIOGEOCHEMISTRY 3 Credit Hours**

(Cross-listed with GEOL 40380 and GEOL 50380) (Slashed with BSCI 40380 and BSCI 70380) Biogeochemistry explores the chemical, physical, geological, and biological processes and reactions that shape the world around us, and provides tools for understanding human alterations to global systems. In this course, we will explore elemental cycles in diverse terrestrial and aquatic ecosystems, as well as assess how humans have drastically altered these elemental cycles on a global scale, and the implications of these changes for biological systems.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**BSCI 50431 NEUROENDOCRINOLOGY 3 Credit Hours**

(Slashed with BSCI 40431 and BSCI 70431) This course is an introduction to neuroendocrinology. There will be a focus on the major sources of neurohormones, the different classes of neurohormones, as well as how neurohormones are regulated, how they signal, and how they function. This course will integrate aspects of endocrinology, neuroscience, and physiology. After completion of this course students should have a basic understanding of the various neuroendocrine messengers and how they function.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**BSCI 50432 ENDOCRINOLOGY 3 Credit Hours**

(Cross-listed with BSCI 40432 and BSCI 70432) Principles of endocrine regulation of physiological and metabolic processes. Morphological and functional interrelationships between systems. Lecture three hours weekly.

**Prerequisite:** BSCI 40430; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**BSCI 50433 MAMMALIAN PHYSIOLOGY I 3 Credit Hours**

Physiology of the endocrine, nervous, and reproductive systems.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**BSCI 50434 MAMMALIAN PHYSIOLOGY II 3 Credit Hours**

Physiology of cardiovascular, renal, respiratory and digestive systems. Lecture three hours.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**BSCI 50450 BIOLOGICAL CLOCKS 2 Credit Hours**

(Cross-listed with BSCI 40450 and BSCI 70450) Topics covered include the characteristics of biological clocks, their ecology, molecular biology, and neurobiology, the function and organization of sleep, and the medical implications of biological rhythmicity. Students enrolling at the graduate level should have some background in neurobiology and genetics.

**Prerequisite:** Graduate standing.

**Corequisite:** BSCI 50451.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**BSCI 50451 CURRENT TOPICS IN BIOLOGICAL CLOCKS RESEARCH 1 Credit Hour**

(Cross-listed with BSCI 70451) Discussion of current research literature in the area of research on biological clocks.

**Prerequisite:** Graduate standing.

**Corequisite:** BSCI 50450.

**Schedule Type:** Seminar

**Contact Hours:** 1 lecture

**Grade Mode:** Standard Letter-S/U

**BSCI 50460 ADVANCED HUMAN PHYSIOLOGY 3 Credit Hours**

(Slashed with BSCI 40460 and BSCI 70460) Major concepts and theoretical principles of human physiology, including nervous, endocrine, cardiovascular, respiratory, renal, gastrointestinal and reproductive systems.

**Prerequisite:** Graduate standing.

**Corequisite:** BSCI 50462.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**BSCI 50462 ADVANCED HUMAN PHYSIOLOGY: READINGS AND CASE STUDIES 1 Credit Hour**

(Slashed with BSCI 40462 and BSCI 70462) Designed to complement the lecture course in Advanced Human Physiology. Students will read primary literature in physiology and work independently and in groups to apply their knowledge to solving case studies.

**Prerequisite:** Graduate standing.

**Corequisite:** BSCI 50460.

**Schedule Type:** Lecture

**Contact Hours:** 1 lecture

**Grade Mode:** Standard Letter

**BSCI 50463 MEDICAL BIOTECHNOLOGY 3 Credit Hours**

(Slashed with BSCI 40463 and BSCI 70463) (Cross-listed with BTEC 40463) Medical Biotechnology provides a basic understanding of how living cells and cellular materials can be used for medical applications, particularly in the diagnosis and therapy of human diseases.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**BSCI 50466 MEDICAL AND VETERINARY ENTOMOLOGY 3 Credit Hours**

(Slashed with BSCI 40466 and BSCI 70466) This course covers the ecology of flies, lice, ticks, spiders, and other arthropods with a medical or veterinary importance. The course will consist of lectures and discussions on topics including evolutionary adaptations and lifecycles, allergic responses, disease transmission, forensic entomology, entomophobia, veterinary pests, and pest control techniques.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**BSCI 50515 ANIMAL BEHAVIOR 3 Credit Hours**

Explores the evolution of various animal behaviors, the functions they might serve, and the interplay among the social, ecological and physiological mechanisms that regulate their occurrence.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter



**BSCI 50517 MEDICAL HISTOLOGY 3 Credit Hours**

(Cross-listed with BSCI 40517 and BSCI 70517) Study of the microscopic and submicroscopic structure of the human body in relation to function. Lecture two hours, laboratory three hours weekly.

**Prerequisite:** Graduate standing.

**Schedule Type:** Laboratory, Lecture

**Contact Hours:** 2 lecture, 3 lab

**Grade Mode:** Standard Letter

**BSCI 50519 HORMONES AND BEHAVIOR 3 Credit Hours**

(Cross-listed with BSCI 40519 and BSCI 70519) Current concepts of hormone and behavior interactions across species.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**BSCI 50520 BEHAVIORAL EVOLUTION 3 Credit Hours**

(Cross-listed with BSCI 40520 and BSCI 70520) Examination of how behavior contributes to survival and reproduction in an ecological context. We consider how behavior may have evolved in a wide range of animals. Students enrolled at the graduate level in the course are expected to have had a course in evolution.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**BSCI 50525 WILDLIFE RESOURCES 3 Credit Hours**

(Cross-listed with BSCI 40525 and BSCI 70525) Ecological parameters are discussed relative to the preservation and management of wild animal populations. Aesthetic economic and environmental values are discussed. Lecture three hours weekly.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**BSCI 50556 VERTEBRATE ZOOLOGY 4 Credit Hours**

(Cross-listed with BSCI 40556 and BSCI 70556) Field approach to identification and natural history of all Ohio vertebrates except birds. Lecture three hours, laboratory and field three hours weekly.

**Prerequisite:** 4 hours of Biology; and graduate standing.

**Schedule Type:** Laboratory, Lecture

**Contact Hours:** 3 lecture, 3 lab

**Grade Mode:** Standard Letter

**BSCI 50558 MAMMALOGY 3 Credit Hours**

(Slashed with BSCI 40558 and BSCI 70558) This course will explore the biology of mammals. The course is organized into three sections. Section 1 will define what a mammal is and explore their origin, evolution, and modern distribution. Section 2 will survey modern mammal taxonomic diversity. Section 3 will explore the environmental physiology and various ecological roles that mammals play using specific case studies of mammalian ecological interactions in the world's major biomes.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**BSCI 50560 HERPETOLOGY 3 Credit Hours**

(Slashed with BSCI 40560 and BSCI 70560) This course will explore the biology of amphibians and reptiles. The course is organized into three sections. Section 1 we will explore their origin, evolution, and modern diversity of amphibians and reptiles (Yes, you will be required to memorize a whole mess of taxonomic names!). Section 2 will survey various aspects of the biology of amphibians and reptiles. Section 3 will explore the various aspects of the ecology of amphibians and reptiles, and examine a few critical topics in amphibian and reptile conservation.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**BSCI 50581 ANIMAL PARASITOLOGY 4 Credit Hours**

Morphology, physiology, life-histories, systematics and economic importance of parasites. Lecture two hours, lab six hours weekly.

**Prerequisite:** Graduate standing.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 2 lecture, 6 other

**Grade Mode:** Standard Letter

**BSCI 51110 BIOPHOTONICS 3 Credit Hours**

(Slashed with BSCI 41110; Cross-listed with CHEM 41010 and CHEM 51010 and PHY 41010 and PHY 51010) Interdisciplinary overview of the basics of biophotonics and application of biophotonic techniques to probe biological samples. Introduction to the foundations of optics and photonics and how the molecular structure of organic molecules translates into unique photonic properties and targeting in biological cells or tissue. Preparation of fluorescent materials, advanced spectroscopy and cell visualization using regular and confocal fluorescence microscopy.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 1 lecture, 6 lab

**Grade Mode:** Standard Letter

**BSCI 51120 BIOLOGICAL LIGHT MICROSCOPY 3 Credit Hours**

(Slashed with BSCI 41120 and BSCI 71120) Theoretical and practical information on the operation of optical microscopes, the application of transmission and fluorescence microscopy to biological specimens, and analysis of microscopic images.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**BSCI 60080 EXPERIMENTAL METHODS IN BIOLOGY 2 Credit Hours**

The development of hypotheses, principles of experimental design and methods of gathering and evaluating data.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**BSCI 60104 BIOLOGICAL STATISTICS 4 Credit Hours**

(Slashed with BSCI 70104) Principles of experimental design and statistical analysis and how to choose and interpret statistical tests using biological data sets.

**Prerequisite:** Graduate standing.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 3 lecture, 2 lab

**Grade Mode:** Standard Letter



**BSCI 60144 SELECTED READINGS IN EUKARYOTIC CELL BIOLOGY 1 Credit Hour**

(Cross-listed with BSCI 70144) Directed readings in cell and molecular biology from the primary and review literature will be presented and discussed by the students. Corequisite: BSCI 50143

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 1 lecture

**Grade Mode:** Standard Letter

**BSCI 60145 MEDICAL GENOMICS 3 Credit Hours**

(Cross-listed with BSCI 80145) Explores the relationship and contribution of genetics and genomics to healthcare issues, including disease susceptibility and therapeutic efficacy. Up-to-date genomics concepts and their applications to health care and the challenges of personalized medicine including genetic analyses (e.g., linkage and estimating population risks), ethical issues in genetic testing and therapy, genetic basis of disease processes (e.g., neurological, cardiovascular and neoplastic diseases) and epigenetic processes (that may link the environment to the risk of chronic diseases) are covered. This course requires an understanding of genetics and physiology; students should contact the Department of Biological Sciences to determine if they have the requisite prior training.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**BSCI 60184 RESPONSIBLE CONDUCT IN RESEARCH AND TEACHING-BIOLOGICAL SCIENCES 2 Credit Hours**

(Slashed with BSCI 70184) Educates biology graduate students in central aspects of the responsible and effective conduct of research and teaching. Topics include appropriate conduct in the laboratory, effective presentations and issues related to proposal and manuscript preparation and review.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Satisfactory/Unsatisfactory

**BSCI 60191 SEMINAR IN BIOLOGY 1 Credit Hour**

(Repeatable for credit) Departmental seminar required of all graduate students.

**Prerequisite:** Graduate standing.

**Schedule Type:** Seminar

**Contact Hours:** 1 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**BSCI 60198 RESEARCH 1-15 Credit Hours**

(Repeatable for credit) Research or individual investigation for master's level graduate students. Credits earned may be applied toward degree requirements if department approves.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Research

**Contact Hours:** 1-15 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**BSCI 60199 THESIS I 2-6 Credit Hours**

Thesis students must register for a minimum of 6 hours, 2 to 6 hours in a single semester distributed over several semesters if desired.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Masters Thesis

**Contact Hours:** 2-6 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**BSCI 60299 THESIS II 2 Credit Hours**

Thesis students must continue registration each semester until all degree requirements are met.

**Prerequisite:** BSCI 60199; and graduate standing.

**Schedule Type:** Masters Thesis

**Contact Hours:** 2 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**BSCI 60391 SEMINAR IN ECOLOGY 1 Credit Hour**

(Repeatable for credit) (Cross-listed with BSCI 70391) Seminar on topics in animal and plant ecology. Credits earned may be applied to degree if department approves.

**Prerequisite:** Graduate standing; and special approval of instructor.

**Schedule Type:** Seminar

**Contact Hours:** 1 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**BSCI 60440 CELLULAR AND MOLECULAR SIGNALING 3 Credit Hours**

(Cross-listed with BSCI 70440 and BMS 60440 and BMS 70440)

The relevant and current topics associated with cellular signaling is covered. Topics include receptor pharmacology, classes and regulation, transcription factors, cell cycle signaling and cell-cell communication.

**Prerequisite:** BSCI 4/5/70143; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**BSCI 60462 NEUROBIOLOGY: SYSTEMS AND BEHAVIOR 4 Credit Hours**

(Slashed with BSCI 80462; Cross-listed with BMS 60462 and BMS 70462) Provides broad coverage of the parts of the central nervous systems and how they integrate sensory information, drive motor function and regulate behavior.

**Prerequisite:** BMS 60729 or BMS 70729; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 4 lecture

**Grade Mode:** Standard Letter

**BSCI 60491 SEMINAR IN PHYSIOLOGY 1 Credit Hour**

(Repeatable for credit) (Cross-listed with BSCI 70491) Credits may be applied toward degree if department approves.

**Prerequisite:** Graduate standing; and special approval of instructor.

**Schedule Type:** Seminar

**Contact Hours:** 1 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**BSCI 70104 BIOLOGICAL STATISTICS 4 Credit Hours**

(Slashed with BSCI 60104) Principles of experimental design and statistical analysis, and how to choose and interpret statistical tests using biological data sets.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 3 lecture, 2 lab

**Grade Mode:** Standard Letter

**BSCI 70141 EXPERIMENTAL DESIGN AND ANALYSIS IN MOLECULAR BIOLOGY 3 Credit Hours**

(Slashed with BSCI 40141 and BSCI 50141) This course explores experimental design and analysis of biological data using tools of molecular biology. Students will study modern and classic techniques and learn the pros and cons of each technique as well as alternative approaches in the context of experiments. The course will consist of a combination of lectures, student presentations and class discussions based on recent primary literature, with particular focus on cell death and disease, including cancer.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**BSCI 70142 BIOENERGETICS 3 Credit Hours**

(Cross-listed with BSCI 40142 and BSCI 50142) Lecture and discussion of respiration and photosynthesis, their origin development and control in living systems. Concepts are introduced from fundamental principles. Lecture three hours weekly.

**Prerequisite:** BSCI 40430; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**BSCI 70143 EUKARYOTIC CELL BIOLOGY 3 Credit Hours**

(Cross-listed with BSCI 40143 and BSCI 70143) Current survey of the structure and function of eukaryotic cells, including recent advances in research technology. Lecture three hours weekly.

**Prerequisite:** BSCI 40430; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**BSCI 70144 SELECTED READINGS IN EUKARYOTIC CELL BIOLOGY 1 Credit Hour**

(Cross-listed with BSCI 60144) Directed readings in cell and molecular biology from the primary and review literature will be presented and discussed by the students.

**Prerequisite:** Doctoral standing.

**Corequisite:** BSCI 70143.

**Schedule Type:** Lecture

**Contact Hours:** 1 lecture

**Grade Mode:** Standard Letter

**BSCI 70146 DEVELOPMENTAL BIOLOGY 3 Credit Hours**

(Cross-listed with BSCI 40146 and BSCI 50146) Fundamental concepts and paradigms of development as exemplified by major model organisms. This course will examine our modern understanding of the molecular, cellular and genetic basis of developmental biology.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**BSCI 70147 DEVELOPMENTAL NEUROBIOLOGY 3 Credit Hours**

(Slashed with BSCI 40147 and BSCI 50147) Covers fundamental principles in developmental neurobiology, including molecular and cellular processes involved in the formation of the vertebrate central nervous system.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**BSCI 70148 PRINCIPLES OF INFECTIOUS DISEASE 3 Credit Hours**

(Slashed with BSCI 40148 and BSCI 50148) Basic principles of infectious disease, with emphasis on major human pathogens including protozoa, bacteria, and viruses. Topics include infection establishment, spread within the host, pathology, immunity, and host behavior.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**BSCI 70150 MOLECULAR MECHANISMS OF DISEASE: CANCER 3 Credit Hours**

(Cross-listed with BSCI 40150 and BSCI 50150) Explores the current understanding of molecular and cellular mechanisms of disease processes, including new technologies and modern strategies in the forefront of future biomedical research. Emphasis on a review of primary literature.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**BSCI 70151 MECHANISMS OF DISEASE: OBESITY AND RELATED METABOLIC DISEASES 3 Credit Hours**

(Slashed with BSCI 40151 and BSCI 50151) Addresses obesity from multiple angles, including health and disease process, underlying physiology and cell and molecular biology, and the role of behavior. Emphasis on a review of primary literature to discuss obesity causes, consequences and treatments.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**BSCI 70152 MOLECULAR MECHANISMS OF DISEASE: NEUROLOGICAL DISORDERS 3 Credit Hours**

(Slashed with BSCI 40152 and BSCI 50152) Major concepts and theoretical principles underlying neurological disorders.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**BSCI 70154 DIABETES AND CARDIOVASCULAR DISEASE 3 Credit Hours**

(Slashed with BSCI 40154 and BSCI 50154) This course covers physiological aspects of diabetes and cardiovascular disease, including associated pathologies and therapies.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**BSCI 70157 NEUROBIOLOGY OF DRUG ADDICTION 3 Credit Hours**

(Slashed with BSCI 40157 and BSCI 50157) Introduction to neural structures, circuitry, and chemistry underlying drug addiction, main categories of drugs of abuse, and how brain cells and circuits are modified in response to addictive drugs.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**BSCI 70158 MOLECULAR BIOLOGY 3 Credit Hours**

(Slashed with BSCI 40158 and BSCI 50158) Molecular genetics, DNA and RNA structure, chromosomes, DNA replication, recombination, genetic transcription and translation, gene expression, current concepts and technologies.

**Prerequisite:** BSCI 30156; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**BSCI 70159 MOLECULAR BIOLOGY LABORATORY 3 Credit Hours**

(Cross-listed with BSCI 40159 and BSCI 50159) Experience in research methods for studying cellular and molecular processes in plant and animal systems.

**Prerequisite:** Doctoral standing; and special approval from instructor.

**Schedule Type:** Laboratory

**Contact Hours:** 9 lab

**Grade Mode:** Standard Letter

**BSCI 70160 MARINE BIOLOGY 3 Credit Hours**

(Cross-listed with BSCI 40160 and BSCI 50160) Natural history and ecology of marine organisms, with emphasis on life in coastal habitats. Lecture three hours weekly.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**BSCI 70162 SOIL BIOLOGY 3 Credit Hours**

(Cross-listed with BSCI 40162 and BSCI 50162) The ecology and physiology of organisms that live in soil, including microbes, plants and animals. The physical and chemical aspects of soil are introduced to understand how organisms in soils impact nutrient cycles and ecosystem development.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**BSCI 70163 EVOLUTION 3 Credit Hours**

(Cross-listed with BSCI 40163 and BSCI 50163) Discussion of the history of evolutionary theory, the evidence of evolution, the evolutionary forces and the products of those forces. Doctoral standing.

**Prerequisite:** BSCI 30156 plus 4 hours of biology.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**BSCI 70166 ENVIRONMENTAL SENSOR TECHNOLOGY 2 Credit Hours**

(Slashed with BSCI 40166 and BSCI 50166) Provides learning experiences in the field of environmental wireless sensor technology for performing both isolated and collaborative tasks. Students will use practical tools for WST design.

**Prerequisite:** Doctoral standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**BSCI 70170 STREAM BIOLOGY 3 Credit Hours**

(Cross-listed with BSCI 40170 and BSCI 50170) Identification, biology and ecology of stream-inhabiting organisms. Lecture two, laboratory three hours weekly.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Laboratory, Lecture

**Contact Hours:** 2 lecture, 1 lab

**Grade Mode:** Standard Letter

**BSCI 70174 IMMUNOLOGY 3 Credit Hours**

(Cross-listed with BSCI 40174 and BSCI 50174) Survey of the mammalian host responses to self and non-self with emphasis on the cellular and molecular mechanisms by which innate and acquired immunity result. Experimental design and data analyses are related to current methodologies used to study immunology. Lecture three hours weekly. Doctoral standing.

**Prerequisite:** BSCI 30171 and CHEM 10060, 10061 and 10062.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**BSCI 70184 RESPONSIBLE CONDUCT IN RESEARCH AND TEACHING-BIOLOGICAL SCIENCES 2 Credit Hours**

(Slashed with BSCI 60184) Educates biology graduate students in central aspects of the responsible and effective conduct of research and teaching. Topics include appropriate conduct in the laboratory, effective presentations and issues related to proposal and manuscript preparation and review.

**Prerequisite:** Doctoral standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Satisfactory/Unsatisfactory

**BSCI 70191 SEMINAR IN BIOLOGY 1 Credit Hour**

(Repeatable for credit) Departmental seminar required of all graduate students.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Seminar

**Contact Hours:** 1 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**BSCI 70193 VARIABLE TITLE WORKSHOP IN BIOLOGICAL SCIENCES 1-6 Credit Hours**

(Repeatable for credit) Topics to be offered will meet specific needs in the biological sciences.

**Prerequisite:** Doctoral standing; and special approval.

**Schedule Type:** Workshop

**Contact Hours:** 1-6 other

**Grade Mode:** Satisfactory/Unsatisfactory

**BSCI 70195 SPECIAL TOPICS IN BIOLOGY 1-3 Credit Hours**

(Repeatable for credit) (Cross-listed with BSCI 40195 and BSCI 50195)

**Prerequisite:** Doctoral standing; and special approval of instructor.

**Schedule Type:** Laboratory, Lecture

**Contact Hours:** 1-3 lecture, 2-6 lab

**Grade Mode:** Standard Letter-IP

**BSCI 70196 INDIVIDUAL INVESTIGATION 1-3 Credit Hours**

(Repeatable for credit) (Cross-listed with BSCI 40196 and BSCI 50196)

**Prerequisite:** Doctoral standing; and special approval of instructor.

**Schedule Type:** Individual Investigation

**Contact Hours:** 1-3 other

**Grade Mode:** Standard Letter-IP

**BSCI 70220 BIOINFORMATICS 3 Credit Hours**

(Cross-listed with BTEC 40220) (Slashed with BSCI 40220 and BSCI 50220) Analysis of biological databases, including nucleic acid and protein sequence searching, multiple sequence alignment, protein classification, phylogenetic analysis, comparative genomics, proteomics, protein structure analysis.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**BSCI 70221 ECOLOGICAL GENOMICS 3 Credit Hours**

(Slashed with BSCI 40221 and BSCI 50221) Covers principles, concepts and techniques of ecological genomics, emphasizing the application of genomics to ecology and biogeochemistry and using genomic, metagenomic and metatranscriptomic data.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**BSCI 70222 INVASION BIOLOGY 3 Credit Hours**

(Slashed with BSCI 40222 and BSCI 50222) This course will provide an overview of the science of biological invasions, focusing on the processes of introduction, establishment, and spread. It will discuss both invasions of species from other countries as well as encroachment of native species. The economic and ecological impacts of both plant and animal invasive species, as well as ways of combating the harmful effects of invasions will be discussed.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**BSCI 70272 PLANT ANATOMY 4 Credit Hours**

(Cross-listed with BSCI 40272 and BSCI 50272) Development and structure of cells, tissues and tissue systems of seed plants. Both vegetative and reproductive structures of angiosperms will be emphasized. Lecture two hours, laboratory six hours weekly.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Laboratory, Lecture

**Contact Hours:** 3 lecture, 0 lab

**Grade Mode:** Standard Letter

**BSCI 70273 INTRODUCTION TO MYCOLOGY 3 Credit Hours**

(Slashed with BSCI 40273 and BSCI 50273) Introduces the key features defining the fungi. Topics include anatomical and morphological features, reproductive strategies, identification, and community interactions.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**BSCI 70274 PLANT COMMUNITIES OF OHIO 3 Credit Hours**

(Slashed with BSCI 40274 and BSCI 50274) Designed to familiarize students with the range of plant communities within Ohio by relating plant identification to biological, hydrological, geological, and climatic forces.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**BSCI 70275 PLANT SYSTEMATICS AND EVOLUTION 4 Credit Hours**

(Cross-listed with BSCI 40275 and BSCI 50275) Introduction to vascular plant diversity, with a focus on flowering plants. Students will learn characteristics of vascular plants and how to identify major plant groups. Lecture three hours weekly, lab two hours weekly.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Laboratory, Lecture

**Contact Hours:** 3 lecture, 1 lab

**Grade Mode:** Standard Letter

**BSCI 70341 STEM CELL BIOLOGY: PRINCIPLES AND APPLICATIONS 3 Credit Hours**

(Slashed with BSCI 40341 and BSCI 50341) Examination of stem cells from various tissues, molecular mechanism of stem cell differentiation, and use of stem cells in clinical applications.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**BSCI 70360 ICHTHYOLOGY 4 Credit Hours**

(Cross-listed with BSCI 40360 and BSCI 50360) Basic biology, natural history, behavior and ecology of the fishes. Three hour lecture and three hour lab weekly.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 3 lecture, 3 lab

**Grade Mode:** Standard Letter

**BSCI 70363 MICROBIAL ECOLOGY 3 Credit Hours**

(Cross-listed with BSCI 40363 and BSCI 50363) Microbial interactions with their biotic and abiotic environment; control of distribution and physiological activities; emphasis on bacteria in aquatic systems.

**Prerequisite:** BSCI 30171, 30360; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**BSCI 70364 LIMNOLOGY 3 Credit Hours**

(Cross-listed with BSCI 40364 and BSCI 50364) The study of the principles of aquatic ecology with emphasis on lakes and reservoirs.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**BSCI 70365 FIELD METHODS IN ORNITHOLOGY 3 Credit Hours**

(Slashed with BSCI 40365 and BSCI 50365) Habitat-based survey of Ohio birds. Field-based lectures and activities cover location, observation and identification of birds and their songs, as well as bird ecology and behavior.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter



**BSCI 70368 WETLAND ECOLOGY AND MANAGEMENT 4 Credit Hours**

(Cross-listed with BSCI 40368 and BSCI 50368) Lecture, laboratory and field study of the principles of wetland ecology including adaptations of the biota to environmental conditions, comparison among different wetland habitat types and habitat management. Lecture 3 hours, lab 3 hours weekly.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Laboratory, Lecture

**Contact Hours:** 3 lecture, 1 lab

**Grade Mode:** Standard Letter

**BSCI 70370 ECOLOGICAL AND EVOLUTIONARY GENETICS 2 Credit Hours**

(Cross-listed with BSCI 50370) Genetic and genomic approaches to studying ecology and evolution in populations and communities.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**BSCI 70371 EVOLUTIONARY BIOLOGY 2 Credit Hours**

(Cross-listed with BSCI 50371) Theoretical and experimental approaches to studying evolution from genes to populations and communities.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**BSCI 70372 COMMUNITIES AND ECOSYSTEMS 2 Credit Hours**

(Cross-listed with BSCI 50372) Theory and experimental approaches to studying community and ecosystem ecology.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**BSCI 70373 POPULATION AND COMMUNITY ECOLOGY 2 Credit Hours**

(Cross-listed with BSCI 50373) Theory and experimental approaches to studying population and community ecology.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**BSCI 70374 CONSERVATION BIOLOGY 4 Credit Hours**

(Cross-listed with BSCI 40374 and BSCI 50374) Provides a critical analysis of the factors that threaten biological diversity in the biosphere and the consequences on biological processes and quality of life.

**Prerequisite:** BSCI 30360; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 4 lecture

**Grade Mode:** Standard Letter

**BSCI 70375 ENVIRONMENTAL BIOLOGY AND MANAGEMENT 4 Credit Hours**

(Cross-listed with BSCI 40375 and BSCI 50375) Introduction to current concepts in applied ecology and ecosystem management. Students will learn aspects of ecosystem management and restoration including: 1) how environmental factors affect organism survival and ecosystem structure, 2) how human impacts such as pollution, habitat fragmentation, introduction of invasive species affect ecosystems, and 3) the use of ecological principles and methods to restore and manage ecosystems.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 4 lecture

**Grade Mode:** Standard Letter

**BSCI 70376 TROPICAL FIELD BIOLOGY AND CONSERVATION 5 Credit Hours**

(Cross-listed with BSCI 40376 and BSCI 50376) Introduction to major issues in tropical ecology and conservation including the threats to the biological diversity of tropical ecosystems resulting from human activities. Students learn how to apply modern field-observation techniques to generate and test problem-solving hypotheses.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 3 lecture, 6 lab

**Grade Mode:** Standard Letter

**BSCI 70380 BIOGEOCHEMISTRY 3 Credit Hours**

(Slashed with BSCI 40380 and BSCI 50380) Biogeochemistry explores the chemical, physical, geological, and biological processes and reactions that shape the world around us, and provides tools for understanding human alterations to global systems. In this course, we will explore elemental cycles in diverse terrestrial and aquatic ecosystems, as well as assess how humans have drastically altered these elemental cycles on a global scale, and the implications of these changes for biological systems.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**BSCI 70391 SEMINAR IN ECOLOGY 1 Credit Hour**

(Repeatable for credit) (Cross-listed with BSCI 60391) Seminar on topics in animal and plant ecology. Credits earned may be applied to degree if department approves.

**Prerequisite:** Doctoral standing; and special approval of instructor.

**Schedule Type:** Seminar

**Contact Hours:** 1 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**BSCI 70431 NEUROENDOCRINOLOGY 3 Credit Hours**

(Slashed with BSCI 40431 and BSCI 50431) This course is an introduction to neuroendocrinology. There will be a focus on the major sources of neurohormones, the different classes of neurohormones, as well as how neurohormones are regulated, how they signal, and how they function. This course will integrate aspects of endocrinology, neuroscience, and physiology. After completion of this course students should have a basic understanding of the various neuroendocrine messengers and how they function.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter



**BSCI 70432 ENDOCRINOLOGY 3 Credit Hours**

(Cross-listed with BSCI 40432 and BSCI 40432) Principles of endocrine regulation of physiological and metabolic processes. Morphological and functional interrelationships between systems. Lecture three hours weekly.

**Prerequisite:** BSCI 40430; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**BSCI 70433 MAMMALIAN PHYSIOLOGY I 3 Credit Hours**

Physiology of the endocrine, nervous, and reproductive systems.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**BSCI 70434 MAMMALIAN PHYSIOLOGY II 3 Credit Hours**

Physiology of cardiovascular, renal, respiratory and digestive systems.

Lecture three hours.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**BSCI 70440 CELLULAR AND MOLECULAR SIGNALING 3 Credit Hours**

(Slashed with BSCI 60440) (Crosslisted with BMS 60440 and BMS 70440) The relevant and current topics associated with cellular signaling is covered. Topics include receptor pharmacology, classes and regulation, transcription factors, cell cycle signaling and cell-cell communication.

**Prerequisite:** BSCI 70143; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**BSCI 70450 BIOLOGICAL CLOCKS 2 Credit Hours**

(Cross-listed with BSCI 40450 and BSCI 50450) Topics covered include the characteristics of biological clocks, their ecology, molecular biology, and neurobiology, the function and organization of sleep, and the medical implications of biological rhythmicity. Students enrolling at the graduate level should have some background in neurobiology and genetics.

**Prerequisite:** Doctoral standing.

**Corequisite:** BSCI 70451.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**BSCI 70451 CURRENT TOPICS IN BIOLOGICAL CLOCKS RESEARCH 1 Credit Hour**

(Cross-listed with BSCI 50451) Discussion of current research literature in the area of research on biological clocks.

**Prerequisite:** Doctoral standing.

**Corequisite:** BSCI 70450.

**Schedule Type:** Seminar

**Contact Hours:** 1 lecture

**Grade Mode:** Standard Letter-S/U

**BSCI 70460 ADVANCED HUMAN PHYSIOLOGY 3 Credit Hours**

(Slashed with BSCI 40460 and BSCI 50460) Major concepts and theoretical principles of human physiology, including nervous, endocrine, cardiovascular, respiratory, renal, gastrointestinal and reproductive systems.

**Prerequisite:** Doctoral standing.

**Corequisite:** BSCI 70462.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**BSCI 70462 ADVANCED HUMAN PHYSIOLOGY: READINGS AND CASE STUDIES 1 Credit Hour**

(Slashed with BSCI 40462 and BSCI 50462) Designed to complement the lecture course in Advanced Human Physiology. Students will read primary literature in physiology and work independently and in groups to apply their knowledge to solving case studies.

**Prerequisite:** Doctoral standing.

**Corequisite:** BSCI 70460.

**Schedule Type:** Lecture

**Contact Hours:** 1 lecture

**Grade Mode:** Standard Letter

**BSCI 70463 MEDICAL BIOTECHNOLOGY 3 Credit Hours**

(Slashed with BSCI 40463 and BSCI 50463) (Cross-listed with BTEC 40463) Medical Biotechnology provides a basic understanding of how living cells and cellular materials can be used for medical applications, particularly in the diagnosis and therapy of human diseases.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**BSCI 70466 MEDICAL AND VETERINARY ENTOMOLOGY 3 Credit Hours**

(Slashed with BSCI 40466 and BSCI 50466) This course covers the ecology of flies, lice, ticks, spiders, and other arthropods with a medical or veterinary importance. The course will consist of lectures and discussions on topics including evolutionary adaptations and lifecycles, allergic responses, disease transmission, forensic entomology, entomophobia, veterinary pests, and pest control techniques.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**BSCI 70491 SEMINAR IN PHYSIOLOGY 1 Credit Hour**

(Repeatable for credit) (Cross-listed with BSCI 60491) Credits may be applied toward degree if department approves.

**Prerequisite:** Doctoral standing; and special approval of instructor.

**Schedule Type:** Seminar

**Contact Hours:** 1 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**BSCI 70515 ANIMAL BEHAVIOR 3 Credit Hours**

Explores the evolution of various animal behaviors, the functions they might serve, and the interplay among the social, ecological and physiological mechanisms that regulate their occurrence.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**BSCI 70517 MEDICAL HISTOLOGY 3 Credit Hours**

(Slashed with BSCI 40517 and BSCI 50517) Study of the microscopic and submicroscopic structure of the mammalian body in relation to function.

Lecture two hours laboratory three hours weekly.

**Prerequisite:** 4 hours of biology; and doctoral standing.

**Schedule Type:** Laboratory, Lecture

**Contact Hours:** 2 lecture, 3 lab

**Grade Mode:** Standard Letter

**BSCI 70519 HORMONES AND BEHAVIOR 3 Credit Hours**

(Cross-listed with BSCI 40519 and BSCI 70519) Current concepts of hormone and behavior interactions across species.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**BSCI 70520 BEHAVIORAL EVOLUTION 3 Credit Hours**

(Cross-listed with BSCI 40520 and BSCI 50520) Examination of how behavior contributes to survival and reproduction in an ecological context. We consider how behavior may have evolved in a wide range of animals. Students enrolled at the graduate level will be expected to have had a course in evolution.

**Prerequisite:** Doctoral standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**BSCI 70525 WILDLIFE RESOURCES 3 Credit Hours**

(Cross-listed with BSCI 40525 and BSCI 50525) Ecological parameters are discussed relative to the preservation and management of wild animal populations. Aesthetic economic and environmental values are discussed. Lecture three hours weekly.

**Prerequisite:** 4 hours of Biology; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**BSCI 70556 VERTEBRATE ZOOLOGY 4 Credit Hours**

(Cross-listed with BSCI 40556 and BSCI 50556) Field approach to identification and natural history of all Ohio vertebrates except birds.

Lecture three hours laboratory and field three hours weekly.

**Prerequisite:** 4 hours of Biology; and doctoral standing.

**Schedule Type:** Laboratory, Lecture

**Contact Hours:** 3 lecture, 3 lab

**Grade Mode:** Standard Letter

**BSCI 70558 MAMMALOLOGY 3 Credit Hours**

(Slashed with BSCI 40558 and BSCI 50558) This course will explore the biology of mammals. The course is organized into three sections. Section 1 will define what a mammal is and explore their origin, evolution, and modern distribution. Section 2 will survey modern mammal taxonomic diversity. Section 3 will explore the environmental physiology and various ecological roles that mammals play using specific case studies of mammalian ecological interactions in the world's major biomes.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**BSCI 70560 HERPETOLOGY 3 Credit Hours**

(Slashed with BSCI 40560 and BSCI 50560) This course will explore the biology of amphibians and reptiles. The course is organized into three sections. Section 1 we will explore their origin, evolution, and modern diversity of amphibians and reptiles (Yes, you will be required to memorize a whole mess of taxonomic names!). Section 2 will survey various aspects of the biology of amphibians and reptiles. Section 3 will explore the various aspects of the ecology of amphibians and reptiles, and examine a few critical topics in amphibian and reptile conservation.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**BSCI 71120 BIOLOGICAL LIGHT MICROSCOPY 3 Credit Hours**

(Slashed with BSCI 41120 and BSCI 51120) Theoretical and practical information on the operation of optical microscopes, the application of transmission and fluorescence microscopy to biological specimens, and analysis of microscopic images.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**BSCI 80145 MEDICAL GENOMICS 3 Credit Hours**

(Cross-listed with BSCI 60145) Explores the relationship and contribution of genetics and genomics to healthcare issues, including disease susceptibility and therapeutic efficacy. Up-to-date genomics concepts and their applications to health care and the challenges of personalized medicine including genetic analyses (e.g., linkage and estimating population risks), ethical issues in genetic testing and therapy, genetic basis of disease processes (e.g., neurological, cardiovascular and neoplastic diseases) and epigenetic processes (that may link the environment to the risk of chronic diseases) are covered. This course requires an understanding of genetics and physiology; students should contact the Department of Biological Sciences to determine if they have the requisite prior training.

**Prerequisite:** Doctoral standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**BSCI 80198 RESEARCH 1-15 Credit Hours**

(Repeatable for credit) Research or individual investigation for doctoral students who have not yet passed candidacy examination.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Research

**Contact Hours:** 1-15 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**BSCI 80199 DISSERTATION I 15 Credit Hours**

(Repeatable for credit) Doctoral dissertation, for which registration in at least two semesters is required first of which will be semester in which dissertation work is begun and continuing until the completion of 30 hours.

**Prerequisite:** Special approval; and doctoral standing.

**Schedule Type:** Dissertation

**Contact Hours:** 15 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**BSCI 80299 DISSERTATION II 15 Credit Hours**

(Repeatable for credit) Continuing registration of doctoral students who have completed the initial 30 hours of dissertation and continuing until all degree requirements are met.

**Prerequisite:** BSCI 80199; and doctoral standing.

**Schedule Type:** Dissertation

**Contact Hours:** 15 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**BSCI 80462 NEUROBIOLOGY: SYSTEMS AND BEHAVIOR 4 Credit Hours**

(Slashed with BSCI 60462; Cross-listed with BMS 60462 and BMS 70462)

Provides broad coverage of the parts of the central nervous systems and how they integrate sensory information, drive motor function and regulate behavior.

**Prerequisite:** BMS 60729 or BMS 70729; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 4 lecture

**Grade Mode:** Standard Letter

## Biomedical Sciences (BMS)

**BMS 40196 INDIVIDUAL INVESTIGATION IN BIOMEDICAL SCIENCES (ELR) 1-3 Credit Hours**

(May be repeated for up to 6 credit hours) Research study under the direction of a BMS faculty mentor. Students majoring in biology (BSCI), biotechnology (BTEC), chemistry (CHEM), integrated life sciences (ILS) and physics (PHY) majors are eligible to enroll in this course, but must have 18 credit hours in their major completed.

**Prerequisite:** Minimum overall 2.750 GPA; and departmental and faculty mentor approvals required.

**Schedule Type:** Individual Investigation

**Contact Hours:** 3-9 other

**Grade Mode:** Standard Letter

**Attributes:** Experiential Learning Requirement

**BMS 50701 CLINICAL NEUROANATOMY 3 Credit Hours**

(Slashed with BMS 70701)(Cross-listed with PSYC 43001, PSYC 53001 and PSYC 73001) Course examines the anatomical organization of the human brain, emphasizing functional aspects of various neural systems, neuroimaging and topics of clinical relevance. Students must have a conceptual understanding of central nervous system organization and memorization of specific neural structures and pathways, as well as knowledge of the impact of structure and systems dysfunction.

**Prerequisite:** Graduate standing and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**BMS 50702 CURRENT TECHNIQUES IN BEHAVIORAL NEUROSCIENCE 3 Credit Hours**

(Slashed with BMS 70702)(Cross-listed with PSYC 43002, PSYC 53002 and PSYC 73002) Course details current and advanced techniques used in behavioral neuroscience research. Emphasis is placed on understanding the theory behind each technique, and its use in understanding the neural mechanisms of behavior. Detailed protocols for each technique are also covered.

**Prerequisite:** Graduate standing and special approval from instructor.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**BMS 50703 NEURAL MECHANISMS OF LEARNING AND MEMORY 3 Credit Hours**

(Slashed with BMS 70703)(Cross-listed with PSYC 43003, PSYC 53003 and PSYC 73003) Course examines the neural and molecular mechanisms underlying learning and memory formation. Covers cellular mechanisms of learning, including long-term potentiation and basic electrophysiology in invertebrate and mammalian preps. Transcriptional and post-translational modifications required for learning and memory formation, genomic signaling and protein synthesis. Also covers structural changes of neurons associated with memory formation, and the different behavioral methods for studying memory.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**BMS 60120 LABORATORY TECHNIQUES IN BIOMEDICAL SCIENCES 2 Credit Hours**

(Repeatable once for credit) Minimum of two laboratory rotations per semester by arrangement with individual faculty members.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Research

**Contact Hours:** 2 other

**Grade Mode:** Satisfactory/Unsatisfactory

**BMS 60196 INDIVIDUAL INVESTIGATION 1-3 Credit Hours**

(Repeatable for a maximum of 6 credit hours) (Cross-listed with BMS 70196) Directed investigation under supervision of faculty member in biomedical sciences and with prior approval.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Individual Investigation

**Contact Hours:** 1-3 other

**Grade Mode:** Standard Letter-IP

**BMS 60198 RESEARCH 1-15 Credit Hours**

(Repeatable for credit) Research for master's level graduate students.

Credits earned may be applied toward degree requirements if department approves.

**Prerequisite:** Graduate standing; and special approval of adviser.

**Schedule Type:** Research

**Contact Hours:** 1-15 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**BMS 60199 THESIS I 2-6 Credit Hours**

Thesis students must register for a minimum of 6 hours, 2 to 6 hours in a single semester distributed over several semesters if desired.

**Prerequisite:** Graduate standing; and special approval of adviser.

**Schedule Type:** Masters Thesis

**Contact Hours:** 2-6 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**BMS 60220 HUMAN MICROSCOPIC ANATOMY 5 Credit Hours**

(Slashed with BMS 70220) Morphological basis for normal and disturbed functions; structure-function relationships in human microscopic anatomy. Lectures, special laboratory and learning techniques using human tissues.

**Prerequisite:** BSCI 50517 or special approval of instructor; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 5 lecture

**Grade Mode:** Standard Letter

**BMS 60251 THEORY AND PRACTICE OF CLONING AND GENETIC ENGINEERING 2 Credit Hours**

(Slashed with BMS 70251) Recent advances in the development and understanding of genetic engineering, genomic DNA organization and gene therapy will be discussed.

**Prerequisite:** BSCI 50158 and CHEM 50247 or BMS 60268; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**BMS 60291 SEMINAR IN CELLULAR AND MOLECULAR BIOLOGY 1 Credit Hour**

(Repeatable for credit) (Cross-listed with BMS 70291) Credits may be applied toward degree if department approves.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Seminar

**Contact Hours:** 1 other

**Grade Mode:** Satisfactory/Unsatisfactory

**BMS 60295 SPECIAL TOPICS IN CELLULAR AND MOLECULAR BIOLOGY 1-5 Credit Hours**

(Repeatable for credit) (Slashed with BMS 70295) Study of subject or problem of current importance. Content dependent upon student requirements and on recent developments in field. Sections may be standard letter or satisfactory/unsatisfactory (S/U) graded.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 1-5 lecture

**Grade Mode:** Standard Letter

**BMS 60299 THESIS II 2 Credit Hours**

Thesis students must continue registration each semester until all degree requirements are met.

**Prerequisite:** 6 hours of BMS 60199; and graduate standing.

**Schedule Type:** Masters Thesis

**Contact Hours:** 2 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**BMS 60440 CELLULAR AND MOLECULAR SIGNALING 3 Credit Hours**

(Cross-listed with BSCI 60440 and BSCI 70440 and BMS 70440)

The relevant and current topics associated with cellular signaling is covered. Topics include receptor pharmacology, classes, and regulation, transcription factors, cell cycle signaling, and cell-cell communication.

**Prerequisite:** BSCI 40143 or BSCI 50143 or BSCI 70143; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**BMS 60441 MEDICAL PHYSIOLOGY 5 Credit Hours**

(Slashed with BMS 70441) Investigation of how the integration of biophysics, biochemistry and structure induces organ function in the cardiovascular, renal, respiratory, endocrine and gastrointestinal systems. Limited discussion of how pathologies alter normal organ function.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 5 lecture

**Grade Mode:** Standard Letter

**BMS 60450 MEDICAL PHYSIOLOGY II 3 Credit Hours**

(Cross-listed with BMS 70450) Biophysical and biochemical concepts of integrative organ system physiology in the human: renal, gastrointestinal and endocrine physiology.

**Prerequisite:** BSCI 40430; and graduate standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**BMS 60462 NEUROBIOLOGY: SYSTEMS AND BEHAVIOR 4 Credit Hours**

(Slashed with BMS 70462; Cross-listed with BSCI 60462 and BSCI 80462). Provides broad coverage of the parts of the central nervous systems and how they integrate sensory information, drive motor function and regulate behavior.

**Prerequisite:** BMS 60729 or BMS 70729; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 4 lecture

**Grade Mode:** Standard Letter

**BMS 60465 MEDICAL NEUROSCIENCE 6 Credit Hours**

(Slashed with BMS 70465) Detailed examination of human neuroanatomy and nervous system function.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 5 lecture, 3 lab

**Grade Mode:** Standard Letter

**BMS 60491 SEMINAR IN MEDICAL PHYSIOLOGY 1 Credit Hour**

(Repeatable for credit) (Cross-listed with BMS 70491) Credits may be applied toward degree if department approves.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Seminar

**Contact Hours:** 1 other

**Grade Mode:** Satisfactory/Unsatisfactory

**BMS 60495 SPECIAL TOPICS IN PHYSIOLOGY 1-5 Credit Hours**

(Repeatable for credit) (Slashed with BMS 70495) Study of subject or problem of current importance. Content dependent upon student requirements and on recent developments in field. Sections may be standard letter or satisfactory/unsatisfactory (S/U) graded.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 1-5 lecture

**Grade Mode:** Standard Letter

**BMS 60501 INTRODUCTION TO PHARMACOLOGY 1 Credit Hour**

(Slashed with BMS 70501) Satisfactory/Unsatisfactory (S/U) graded. Basic aspects of pharmacology. Intended to provide a general understanding of fundamental concepts in pharmacology and opportunities for students to read and present peer-reviewed manuscripts covering introductory pharmacological concepts.

**Prerequisite:** Graduate standing.

**Schedule Type:** Seminar

**Contact Hours:** 1 other

**Grade Mode:** Satisfactory/Unsatisfactory



**BMS 60502 MOLECULAR PHARMACOLOGY 4 Credit Hours**  
(Slashed with BMS 70502) General principles of pharmacology including metabolism, action, interactions, side effects, toxicity and therapeutic use of select drug topics. Focus is placed on the molecular and cellular targets of drug action.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 4 lecture

**Grade Mode:** Standard Letter

**BMS 60503 PHARMACOLOGY JOURNAL REVIEW 1 Credit Hour**  
(Repeatable maximum four times) (Slashed with BMS 70503) Satisfactory/Unsatisfactory (S/U) graded. Review and discussion of advanced pharmacology journal articles. Students will present and critique articles from peer-viewed publications and actively participate in discussions. Background in physiology and biochemistry required.

**Prerequisite:** Graduate standing.

**Schedule Type:** Seminar

**Contact Hours:** 1 other

**Grade Mode:** Satisfactory/Unsatisfactory

**BMS 60504 CHEMOTHERAPY AND TOXICOLOGY 2 Credit Hours**  
(Slashed with BMS 70504) Specialized topics in chemotherapy of microbial and neoplastic diseases as well as principles of toxicology.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**BMS 60505 DRUG DISCOVERY AND CLINICAL PHARMACOLOGY 2 Credit Hours**

(Slashed with BMS 70505) Basic concepts underlying drug discovery and clinical pharmacology including principles of pharmacokinetics, metabolism, pharmacogenomics and drug design.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**BMS 60506 HERBALS AND SUPPLEMENTS 2 Credit Hours**  
(Slashed with BMS 70506) Provides an understanding of the basic scientific, therapeutic and pharmacological principles underlying the use of medicinal plants, herbal medications, natural products, vitamins, minerals and supplements.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**BMS 60550 MEDICAL PHARMACOLOGY I 3 Credit Hours**  
(Cross-listed with BMS 70550) General principles of pharmacology including metabolism, action, interactions, side effects, toxicity and therapeutic use of drugs.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**BMS 60551 MEDICAL PHARMACOLOGY II 3 Credit Hours**  
(Slashed with BMS 70551) Continuation of BMS 60550.

**Prerequisite:** BMS 60550; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**BMS 60591 SEMINAR IN PHARMACOLOGY 1 Credit Hour**  
(Repeatable for credit) (Cross-listed with BMS 70591) Credits may be applied toward degree if department approves. Repeated registration permitted.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Seminar

**Contact Hours:** 1 other

**Grade Mode:** Satisfactory/Unsatisfactory

**BMS 60595 SPECIAL TOPICS IN PHARMACOLOGY 1-5 Credit Hours**  
(Repeatable for credit) (Slashed with BMS 70595) Study of subject or problem of current importance. Content dependent upon student requirements and on recent developments in field. Sections may be standard letter or satisfactory/unsatisfactory (S/U) graded.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 1-5 lecture

**Grade Mode:** Standard Letter

**BMS 60596 INDIVIDUAL INVESTIGATION IN PHARMACOLOGY 1-3 Credit Hours**

(Repeatable for credit) (Cross-listed with BMS 70596) Experience with various laboratory techniques and procedures used in pharmacological research with application to experimental designs.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Individual Investigation

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter-IP

**BMS 60729 CELLULAR AND MOLECULAR NEUROSCIENCE 4 Credit Hours**

(Slashed with BMS 70729) The relation of aspects of the neurosciences to the fundamental properties of nervous tissue, establishing a firm base in experimental neurobiology.

**Prerequisite:** Graduate standing; and special approval of instructor.

**Schedule Type:** Lecture

**Contact Hours:** 4 lecture

**Grade Mode:** Standard Letter

**BMS 60751 CURRENT RESEARCH IN AUDITORY NEUROBIOLOGY 1 Credit Hour**

(Slashed with BMS 70751) (Repeatable for a maximum of four credit hours) Presentation-based by faculty in the Auditory Neuroscience Group. Topics will vary each semester. Each class presentation will highlight recent advances in auditory neurobiology, cover relevant background, and involve discussion of methodology, experimental design, and interpretive issues related to the research. Students will prepare a presentation on a topic chosen in conjunction with one of the faculty members. Assessment is based on presentation quality and active participation throughout the semester.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Seminar

**Contact Hours:** 1 lecture

**Grade Mode:** Satisfactory/Unsatisfactory

**BMS 60791 SEMINAR IN NEUROBIOLOGY 1 Credit Hour**  
(Repeatable for credit) (Cross-listed with BMS 70791) Credits may be applied toward degree if department approves.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Seminar

**Contact Hours:** 1 other

**Grade Mode:** Satisfactory/Unsatisfactory



**BMS 60795 SPECIAL TOPICS IN NEUROBIOLOGY 1-5 Credit Hours**  
(Repeatable for credit) (Slashed with BMS 70795) Study of problems of current importance. Content dependent on student requirements and on developments in field. Sections may be standard letter or satisfactory/unsatisfactory (S/U) graded.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 1-5 lecture

**Grade Mode:** Standard Letter

**BMS 61000 RESPONSIBLE CONDUCT OF RESEARCH 1 Credit Hour**  
(Slashed with BMS 71000; Cross-listed with PHIL 61000) Introduction to professional and ethical conduct of research. Topics include codes and laws governing research, identification of scientific misconduct, plagiarism, authorship and intellectual properties, ethical animal and human research.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 1 lecture

**Grade Mode:** Standard Letter

**BMS 61001 INTRODUCTION TO BIOMEDICAL SCIENCES 1 Credit Hour**

(Slashed with BMS 71001) Seminar for all students in Biomedical Sciences. Repeat registration permitted.

**Prerequisite:** Graduate Standing in the School of Biomedical Sciences; Biological Anthropology, Biomedical mathematics, Cellular and Molecular Biology, Neurosciences, Pharmacology, Physiology Interdisciplinary.

**Schedule Type:** Seminar

**Contact Hours:** 1 lecture

**Grade Mode:** Satisfactory/Unsatisfactory

**BMS 68610 HUMAN GROSS ANATOMY I 4 Credit Hours**

(Cross-listed with BMS 78610) An intensive survey of human macromorphology. Lecture two hours per week. Laboratory six hours per week.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 4 lecture

**Grade Mode:** Standard Letter

**BMS 68611 HUMAN GROSS ANATOMY II 3 Credit Hours**

(Slashed with BMS 78611) An intensive survey of human macromorphology; a 10 week course which continues BMS 6/78610. Lecture two hours per week. Laboratory six hours per week.

**Prerequisite:** BMS 68610; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**BMS 70120 LABORATORY TECHNIQUES IN BIOMEDICAL SCIENCES 2 Credit Hours**

(Repeatable once for credit) (Cross-listed with BMS 60120) Minimum of two laboratory rotations per semester by arrangement with individual faculty members. May be repeated once.

**Prerequisite:** Doctoral standing; and special approval.

**Schedule Type:** Research

**Contact Hours:** 2 other

**Grade Mode:** Satisfactory/Unsatisfactory

**BMS 70196 INDIVIDUAL INVESTIGATION 1-3 Credit Hours**

(Repeatable for credit) (Cross-listed with BMS 60196) Directed investigation under supervision of faculty member in biomedical sciences and with prior approval.

**Prerequisite:** Doctoral standing; and special approval.

**Schedule Type:** Individual Investigation

**Contact Hours:** 1-3 other

**Grade Mode:** Standard Letter-IP

**BMS 70220 HUMAN MICROSCOPIC ANATOMY 5 Credit Hours**

(Slashed with BMS 60220) Morphological basis for normal and disturbed functions; structure-function relationships in human microscopic anatomy. Lectures, special laboratory and learning techniques using human tissues.

**Prerequisite:** BSCI 50517 or special approval of instructor; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 5 lecture

**Grade Mode:** Standard Letter

**BMS 70251 THEORY AND PRACTICE OF CLONING AND GENETIC ENGINEERING 2 Credit Hours**

(Slashed with BMS 60251) Recent advances in the development and understanding of genetic engineering, genomic DNA organization and gene therapy will be discussed.

**Prerequisite:** BSCI 50158 and CHEM 50247 or BMS 60268; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**BMS 70291 SEMINAR IN CELLULAR AND MOLECULAR BIOLOGY 1 Credit Hour**

(Repeatable for credit) (Cross-listed with BMS 60291) Credits may be applied toward degree if department approves.

**Prerequisite:** Doctoral standing; and special approval.

**Schedule Type:** Seminar

**Contact Hours:** 1 other

**Grade Mode:** Satisfactory/Unsatisfactory

**BMS 70295 SPECIAL TOPICS IN CELLULAR AND MOLECULAR BIOLOGY 1-5 Credit Hours**

(Repeatable maximum ten times for credit) (Slashed with BMS 60295) Study of subject or problem of current importance. Content dependent upon student requirements and on recent developments in field.

**Prerequisite:** Doctoral standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 1-5 lecture

**Grade Mode:** Standard Letter

**BMS 70440 CELLULAR AND MOLECULAR SIGNALING 3 Credit Hours**

(Cross-listed with BSCI 60440 and BSCI 70440 and BMS 60440) The relevant and current topics associated with cellular signaling will be covered. Topics include receptor pharmacology, classes and regulation, transcription factors, cell cycle signaling and cell-cell communication.

**Prerequisite:** BSCI 40143 or BSCI 50143 or BSCI 70143; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**BMS 70441 MEDICAL PHYSIOLOGY 5 Credit Hours**

(Slashed with BMS 60441) Investigation of how the integration of biophysics, biochemistry and structure induces organ function in the cardiovascular, renal, respiratory, endocrine and gastrointestinal systems. Limited discussion of how pathologies alter normal organ function.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 5 lecture

**Grade Mode:** Standard Letter

**BMS 70450 MEDICAL PHYSIOLOGY II 3 Credit Hours**

(Cross-listed with BMS 60450) Biophysical and biochemical concepts of integrative organ system physiology in the human: renal, gastrointestinal and endocrine physiology.

**Prerequisite:** BSCI 40430; and one year college physics and college chemistry (including organic); and doctoral standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**BMS 70462 NEUROBIOLOGY: SYSTEMS AND BEHAVIOR 4 Credit Hours**

(Slashed with BMS 60462; Cross-listed with BSCI 60462 and BSCI 80462) Provides broad coverage of the parts of the central nervous systems and how they integrate sensory information, drive motor function and regulate behavior.

**Prerequisite:** BMS 60729 or BMS 70729; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 4 lecture

**Grade Mode:** Standard Letter

**BMS 70465 MEDICAL NEUROSCIENCE 6 Credit Hours**

(Slashed with BMS 60465) Detailed examination of human neuroanatomy and nervous system function.

**Prerequisite:** Doctoral standing; and special approval.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 5 lecture, 3 lab

**Grade Mode:** Standard Letter

**BMS 70491 SEMINAR IN MEDICAL PHYSIOLOGY 1 Credit Hour**

(Repeatable for credit) (Cross-listed with BMS 60491) Credits may be applied toward degree if department approves.

**Prerequisite:** Doctoral standing; and special approval.

**Schedule Type:** Seminar

**Contact Hours:** 1 other

**Grade Mode:** Satisfactory/Unsatisfactory

**BMS 70495 SPECIAL TOPICS IN PHYSIOLOGY 1-5 Credit Hours**

(Repeatable for credit) (Slashed with BMS 60495) Study of subject or problem of current importance. Content dependent upon student requirements and on recent developments in field. Sections may be standard letter or satisfactory/unsatisfactory (S/U) graded.

**Prerequisite:** Doctoral standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 1-5 lecture

**Grade Mode:** Standard Letter

**BMS 70501 INTRODUCTION TO PHARMACOLOGY 1 Credit Hour**

(Slashed with BMS 60501) Satisfactory/Unsatisfactory (S/U) graded. Basic aspects of pharmacology. Intended to provide a general understanding of fundamental concepts in pharmacology and opportunities for students to read and present peer-reviewed manuscripts covering introductory pharmacological concepts.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Seminar

**Contact Hours:** 1 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**BMS 70502 MOLECULAR PHARMACOLOGY 4 Credit Hours**

(Slashed with BMS 60502) General principles of pharmacology including metabolism, action, interactions, side effects, toxicity and therapeutic use of select drug topics. Focus is placed on the molecular and cellular targets of drug action.

**Prerequisite:** Doctoral standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 4 lecture

**Grade Mode:** Standard Letter

**BMS 70503 PHARMACOLOGY JOURNAL REVIEW 1 Credit Hour**

(Repeatable maximum four times) (Slashed with BMS 60503) Review and discussion of advanced pharmacology journal articles. Students will present and critique articles from peer-viewed publications and actively participate in discussions. Background in physiology and biochemistry required. Satisfactory/Unsatisfactory (S/U) graded.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Seminar

**Contact Hours:** 1 other

**Grade Mode:** Satisfactory/Unsatisfactory

**BMS 70504 CHEMOTHERAPY AND TOXICOLOGY 2 Credit Hours**

(Slashed with BMS 60504) Specialized topics in chemotherapy of microbial and neoplastic diseases as well as principles of toxicology.

**Prerequisite:** Doctoral standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**BMS 70505 DRUG DISCOVERY AND CLINICAL PHARMACOLOGY 2 Credit Hours**

(Slashed with BMS 60505) Basic concepts underlying drug discovery and clinical pharmacology including principles of pharmacokinetics, metabolism, pharmacogenomics and drug design.

**Prerequisite:** Doctoral standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**BMS 70506 HERBALS AND SUPPLEMENTS 2 Credit Hours**

(Slashed with BMS 60506) Provides an understanding of the basic scientific, therapeutic and pharmacological principles underlying the use of medicinal plants, herbal medications, natural products, vitamins, minerals and supplements.

**Prerequisite:** Doctoral standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**BMS 70550 MEDICAL PHARMACOLOGY I 3 Credit Hours**  
(Cross-listed with BMS 60550) General principles of pharmacology including metabolism, action, interactions, side effects, toxicity and therapeutic use of drugs.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**BMS 70551 MEDICAL PHARMACOLOGY II 3 Credit Hours**  
(Slashed with BMS 60551) Continuation of BMS 70550.

**Prerequisite:** BMS 70550; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**BMS 70591 SEMINAR IN PHARMACOLOGY 1 Credit Hour**  
(Repeatable for credit) (Cross-listed with BMS 60591) Credits may be applied toward degree if department approves.

**Prerequisite:** Doctoral standing; and special approval.

**Schedule Type:** Seminar

**Contact Hours:** 1 other

**Grade Mode:** Satisfactory/Unsatisfactory

**BMS 70595 SPECIAL TOPICS IN PHARMACOLOGY 1-5 Credit Hours**  
(Repeatable for credit) (Slashed with BMS 60595) Study of subject or problem of current importance. Content dependent upon student requirements and on recent developments in field. Sections may be standard letter or satisfactory/unsatisfactory (S/U) graded.

**Prerequisite:** Doctoral standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 1-5 lecture

**Grade Mode:** Standard Letter

**BMS 70596 INDIVIDUAL INVESTIGATION IN PHARMACOLOGY 1-3 Credit Hours**

(Repeatable for credit) (Cross-listed with BMS 60596) Experience with various laboratory techniques and procedures used in pharmacological research with application to experimental designs.

**Prerequisite:** Doctoral standing; and special approval.

**Schedule Type:** Individual Investigation

**Contact Hours:** 1-3 other

**Grade Mode:** Standard Letter-IP

**BMS 70701 CLINICAL NEUROANATOMY 3 Credit Hours**  
(Slashed with BMS 50701)(Cross-listed with PSYC 43001, PSYC 53001 and PSYC 73001). Course examines the anatomical organization of the human brain, emphasizing functional aspects of various neural systems, neuroimaging and topics of clinical relevance. Students must have a conceptual understanding of central nervous system organization and memorization of specific neural structures and pathways, as well as knowledge of the impact of structure and systems dysfunction.

**Prerequisite:** Doctoral standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**BMS 70702 CURRENT TECHNIQUES IN BEHAVIORAL NEUROSCIENCE 3 Credit Hours**

(Slashed with BMS 50702)(Cross-listed with PSYC 43002, PSYC 53002 and PSYC 73002) Course details current and advanced techniques used in behavioral neuroscience research. Emphasis is placed on understanding the theory behind each technique, and its use in understanding the neural mechanisms of behavior. Detailed protocols for each technique are also covered.

**Prerequisite:** Doctoral standing and special approval from instructor.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**BMS 70703 NEURAL MECHANISMS OF LEARNING AND MEMORY 3 Credit Hours**

(Slashed with BMS 50703)(Cross-listed with PSYC 43003, PSYC 53003 and PSYC 73003) Course examines the neural and molecular mechanisms underlying learning and memory formation. Covers cellular mechanisms of learning, including long-term potentiation and basic electrophysiology in invertebrate and mammalian preps. Transcriptional and post-translational modifications required for learning and memory formation, genomic signaling and protein synthesis. Also covers structural changes of neurons associated with memory formation, and the different behavioral methods for studying memory.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**BMS 70729 CELLULAR AND MOLECULAR NEUROSCIENCE 4 Credit Hours**

(Slashed with BMS 60729) The relation of aspects of the neurosciences to the fundamental properties of nervous tissue, establishing a firm base in experimental neurobiology.

**Prerequisite:** Doctoral standing; and special approval of instructor.

**Schedule Type:** Lecture

**Contact Hours:** 4 lecture

**Grade Mode:** Standard Letter

**BMS 70751 CURRENT RESEARCH IN AUDITORY NEUROBIOLOGY 1 Credit Hour**

(Slashed with BMS 60751) (Repeatable for a maximum of four credit hours) Presentation-based by faculty in the Auditory Neuroscience Group. Topics will vary each semester. Each class presentation will highlight recent advances in auditory neurobiology, cover relevant background, and involve discussion of methodology, experimental design, and interpretive issues related to the research. Students will prepare a presentation on a topic chosen in conjunction with one of the faculty members. Assessment is based on presentation quality and active participation throughout the semester.

**Prerequisite:** Doctoral standing; and special approval.

**Schedule Type:** Seminar

**Contact Hours:** 1 lecture

**Grade Mode:** Satisfactory/Unsatisfactory

**BMS 70791 SEMINAR IN NEUROBIOLOGY 1 Credit Hour**

(Repeatable for credit) (Cross-listed with BMS 60791) Credits may be applied toward degree if department approves.

**Prerequisite:** Doctoral standing; and special approval.

**Schedule Type:** Seminar

**Contact Hours:** 1 other

**Grade Mode:** Satisfactory/Unsatisfactory

**BMS 70795 SPECIAL TOPICS IN NEUROBIOLOGY 1-5 Credit Hours**  
(Repeatable for credit) (Slashed with BMS 60795) Study of problems of current importance. Content dependent on student requirements and on developments in field. Sections may be standard letter or satisfactory/unsatisfactory (S/U) graded

**Prerequisite:** Doctoral standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 1-5 lecture

**Grade Mode:** Standard Letter

**BMS 71000 RESPONSIBLE CONDUCT OF RESEARCH 1 Credit Hour**  
(Slashed with BMS 61000; Cross-listed with PHIL 61000) Introduction to professional and ethical conduct of research. Topics include codes and laws governing research, identification of scientific misconduct, plagiarism, authorship and intellectual properties, ethical animal and human research.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 1 lecture

**Grade Mode:** Standard Letter

**BMS 71001 INTRODUCTION TO BIOMEDICAL SCIENCES 1 Credit Hour**

(Slashed with BMS 61001) Introductory seminar for new students in Biomedical Sciences graduate programs. This seminar will expose students to the different faculty research programs available in the program.

**Prerequisite:** Doctoral standing in Biomedical Sciences.

**Schedule Type:** Seminar

**Contact Hours:** 1 lecture

**Grade Mode:** Satisfactory/Unsatisfactory

**BMS 78610 HUMAN GROSS ANATOMY I 4 Credit Hours**

(Cross-listed with BMS 68610) An intensive survey of human macromorphology. Lecture two hours per week. Laboratory six hours per week.

**Prerequisite:** Doctoral standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 4 lecture

**Grade Mode:** Standard Letter

**BMS 78611 HUMAN GROSS ANATOMY II 3 Credit Hours**

(Cross-listed with BMS 68611) An intensive survey of human macromorphology; a 10 week course which continues BMS 6/78610. Lecture two hours per week. Laboratory six hours per week.

**Prerequisite:** BMS 6/78610; and Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**BMS 78630 PRINCIPLES OF BIOLOGICAL ANTHROPOLOGY 3 Credit Hours**

(Slashed with ANTH 68630) Graduate-level introduction to the field of biological anthropology. Topics include genetics, human variation, fossil and modern primates and early man.

**Prerequisite:** Doctoral standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**BMS 78637 BIOANTHROPOLOGICAL DATA ANALYSIS I 5 Credit Hours**

(Cross-listed with ANTH 68637) Examination of methods of univariate and bivariate experimental design. This survey emphasizes tests of hypothesis and estimation techniques with both classical and nonparametric procedures.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 5 lecture

**Grade Mode:** Standard Letter

**BMS 78638 BIOANTHROPOLOGICAL DATA ANALYSIS II 3 Credit Hours**

(Cross-listed with ANTH 68638) This survey of multivariate analysis in anthropology includes one-sample data exploration, multiple sample problems and regression methods. It also includes computer applications.

**Prerequisite:** BMS 78637; and Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**BMS 78691 SEMINAR IN BIOLOGICAL ANTHROPOLOGY 1 Credit Hour**

(Repeatable for credit) Credits may be applied toward degree if department approves.

**Prerequisite:** Doctoral standing; and special approval.

**Schedule Type:** Seminar

**Contact Hours:** 1 other

**Grade Mode:** Satisfactory/Unsatisfactory

**BMS 78692 FIELD WORK IN PALEOANTHROPOLOGY 1-5 Credit Hours**

(Repeatable for credit) Excavation and/or field survey of miocene and/or plio-pleistocene hominid localities.

**Prerequisite:** Doctoral standing; and special approval.

**Schedule Type:** Field Experience

**Contact Hours:** 1-5 other

**Grade Mode:** Standard Letter

**BMS 78695 SPECIAL TOPICS IN BIOLOGICAL ANTHROPOLOGY 1-5 Credit Hours**

(Repeatable for credit) Study of subject or problem of current importance. Content dependent upon student requirements and on recent developments in field. Sections may be standard letter or satisfactory/unsatisfactory (S/U) graded.

**Prerequisite:** Doctoral standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 1-5 lecture

**Grade Mode:** Standard Letter

**BMS 80198 RESEARCH 1-15 Credit Hours**

(Repeatable for credit) Research for doctoral students who have not yet passed candidacy examination.

**Prerequisite:** Doctoral standing; and special approval of adviser.

**Schedule Type:** Research

**Contact Hours:** 1-15 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**BMS 80199 DISSERTATION I 15 Credit Hours**

(Repeatable for credit) Doctoral dissertation, for which registration in at least two semesters is required, first of which will be semester in which dissertation work is begun and continuing until the completion of 30 hours. Students must successfully complete the doctoral exam before taking this course.

**Prerequisite:** Doctoral standing; and special approval.

**Schedule Type:** Dissertation

**Contact Hours:** 15 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**BMS 80299 DISSERTATION II 15 Credit Hours**

(Repeatable for credit) Continuing registration of doctoral students who have completed the initial 30 hours of dissertation and continuing until all degree requirements are met.

**Prerequisite:** 30 hours of BMS 80199; and Doctoral standing.

**Schedule Type:** Dissertation

**Contact Hours:** 15 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

## Biostatistics (BST)

**BST 50196 INDIVIDUAL INVESTIGATION IN BIOSTATISTICS 1-3 Credit Hours**

(Repeatable for maximum 6 credits) Individual graduate investigation or research in areas related to biostatistics.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Individual Investigation

**Contact Hours:** 1-3 other

**Grade Mode:** Standard Letter-IP

**BST 52019 BIOSTATISTICS IN PUBLIC HEALTH 4 Credit Hours**

Provides students with an understanding of basic statistical methods in public health research, as well as the skills to perform and interpret basic statistical procedures. Students learn how to use statistical analysis software to analyze real data from public health-related studies. They then learn how to interpret the analysis and present the results to public health professionals and educated lay audiences. Includes lab component which enhances student awareness and informed usage of SAS for public health analysis. Students learn how to input, read, store, export, and modify data in SAS and be able to use common SAS procedures to analyze public health data and conduct independent SAS programming.

**Prerequisite:** Graduate standing.

**Schedule Type:** Laboratory, Lecture

**Contact Hours:** 3 lecture, 1 lab

**Grade Mode:** Standard Letter

**BST 60191 VARIABLE CONTENT SEMINAR IN BIOSTATISTICS 1-3 Credit Hours**

(Repeatable for credit) Seminar on current and important topics in biostatistics. Subject matter varies depending on the topic.

**Prerequisite:** Graduate standing.

**Schedule Type:** Seminar

**Contact Hours:** 1-3 other

**Grade Mode:** Standard Letter

**BST 60192 PRACTICUM EXPERIENCE IN BIOSTATISTICS 3,6 Credit Hours**

Observational and participation in public health activities of a public health agency, hospital or other approved organization. The student completes the field experience with joint supervision from the university and approved organization or agency.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Practical Experience

**Contact Hours:** 9-18 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**BST 60195 SPECIAL TOPICS IN BIOSTATISTICS 1-3 Credit Hours**

(Repeatable for a maximum of 6 credit hours) Special topics to sample new offerings on topics in biostatistics.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 1-3 lecture

**Grade Mode:** Standard Letter

**BST 62020 DATA MANAGEMENT AND LOGIC USING SAS® SOFTWARE 3 Credit Hours**

(Slashed with BST 82020) This course introduces graduate students to SAS® software, reading external data into SAS software, use of SAS data step, basic SAS functions, logical data steps for data management, and different SAS procedures for creating summary reports, graphical displays, and conducting basic statistical analysis using the SAS software. SAS Lab sessions are designed to mimic real time challenges working with different kinds of data and learn how to meet such challenges. By the end of the course, students will achieve competency in proper and efficient use of SAS software.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**BST 63012 SURVIVAL ANALYSIS IN PUBLIC HEALTH 3 Credit Hours**

Introduction in survival analysis for graduate students in public health. Covers survival functions, hazard rates, types of censoring and truncation. Methods of focus include life tables, Kaplan-Meier plots, log-rank tests, Cox regression models and parametric survival models. Inference for recurrent event and competing risks models are also covered.

**Prerequisite:** BST 52019 and 63014; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**BST 63013 EXPERIMENTAL DESIGNS IN PUBLIC HEALTH RESEARCH 3 Credit Hours**

Introduces students to experimental research methods, in public health settings. First introduces a number of quasi-experimental and experimental study designs, then identifies a number of statistical methods that can be used to draw correct causal inferences from the study.

**Prerequisite:** BST 52019 and 63014; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter



**BST 63014 APPLIED REGRESSION ANALYSIS OF PUBLIC HEALTH DATA 3 Credit Hours**

(Slashed with BST 83014) Focuses on developing student proficiency in building and evaluating various regression models for public health studies. Topics covered include exploratory and descriptive methods, simple and multiple linear regression models, predictor selection, binary and multinomial logistic regression models, survival analysis, repeated measures and generalized linear models.

**Prerequisite:** BST 52019; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**BST 63015 CATEGORICAL DATA ANALYSIS OF PUBLIC HEALTH DATA 3 Credit Hours**

(Slashed with BST 83015) Provides an applied introduction to the most important methods for analyzing categorical data in public health. Topics covered include contingency tables, logistic regression, generalized linear models, modeling matched pairs and clustered responses.

**Prerequisite:** BST 52019 and EPI 52017; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**BST 73011 MULTIVARIATE ANALYSIS IN PUBLIC HEALTH 3 Credit Hours**

Multivariate statistical methods are designed to evaluate more than one variable at a time. An application-oriented introduction to essential multivariate statistical methods used in public health. Topics covered include matrix theory, data screening and preliminary analyses, multivariate normal distributions, multivariate versions of the general linear model (MANOVA, multivariate multiple regression, MANCOVA), discrimination and classification, canonical correlation analysis, and methods of analyzing covariance and correlation structures (principal components and factor analysis). Also introduces and explores methods of handling missing data.

**Prerequisite:** BST 52019; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**BST 82020 DATA MANAGEMENT AND LOGIC USING SAS® SOFTWARE 3 Credit Hours**

(Slashed with BST 62020) This course introduces graduate students to SAS® software, reading external data into SAS software, use of SAS data step, basic SAS functions, logical data steps for data management, and different SAS procedures for creating summary reports, graphical displays, and conducting basic statistical analysis using the SAS software. SAS Lab sessions are designed to mimic real time challenges working with different kinds of data and learn how to meet such challenges. By the end of the course, students will achieve competency in proper and efficient use of SAS software.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**BST 83012 SURVIVAL ANALYSIS IN PUBLIC HEALTH 3 Credit Hours**

Covers survival functions, hazard rates, types of censoring and truncation. Methods of focus include life tables, Kaplan-Meier plots, log-rank tests, Cox regression models and parametric survival models. Inference for recurrent event and competing risks models are also covered.

**Prerequisite:** BST 52019; and BST 63014 or 83014; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**BST 83013 EXPERIMENTAL DESIGNS IN PUBLIC HEALTH RESEARCH 3 Credit Hours**

Designed to introduce students to experimental research methods, in public health settings. First introduces a number of quasi-experimental and experimental study designs, then identifies a number of statistical methods that can be used to draw correct causal inferences from the study. Students are expected to develop two research proposals, first using quasi-experimental then an experimental design and develop a statistical analysis plan for each study.

**Prerequisite:** BST 52019; and BST 63014 or 83014; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**BST 83014 APPLIED REGRESSION ANALYSIS OF PUBLIC HEALTH DATA 3 Credit Hours**

(Slashed with BST 63014) Focuses on developing student proficiency in building and evaluating various regression models for public health studies. Topics covered include exploratory and descriptive methods, simple and multiple linear regression models, predictor selection, binary and multinomial logistic regression models, survival analysis, repeated measures and generalized linear models.

**Prerequisite:** BST 52019; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**BST 83015 CATEGORICAL DATA ANALYSIS OF PUBLIC HEALTH DATA 3 Credit Hours**

(Cross-listed with BST 63015) Provides an applied introduction to the most important methods for analyzing categorical data in public health. Topics covered include contingency tables, logistic regression, generalized linear models, modeling matched pairs, mixed models for categorical data and clustered responses.

**Prerequisite:** BST 52019 and EPI 52017; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

## Biotechnology (BTEC)

**BTEC 10210 INTRODUCTION TO BIOTECHNOLOGY 3 Credit Hours**

Basic principles and applications of modern biotechnology, including recombinant DNA technology, microbial technology, fermentation, genetic engineering, plant and animal tissue culture and medical biotechnology. Lecture three hours weekly.

**Prerequisite:** BSCI 10120.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**BTEC 40191 SEMINAR: RECENT DEVELOPMENTS IN BIOTECHNOLOGY**  
**1 Credit Hour**

Recent developments in biotechnology explored through the presentation and discussion of research articles and reviews in the biotechnology literature.

**Prerequisite:** BTEC 10210; BSCI 30140, 30171, 30156; CHEM 30284.

**Schedule Type:** Seminar

**Contact Hours:** 1 other

**Grade Mode:** Standard Letter

**BTEC 40192 INTERNSHIP IN BIOTECHNOLOGY (ELR)**  
**2-9 Credit Hours**

(Repeatable for credit) Work experience in a biotechnology laboratory. Registration requires approval of program director and is dependent on availability of internship sites. Written report of activities required.

**Prerequisite:** Biotechnology major.

**Schedule Type:** Practical Experience

**Contact Hours:** 2-9 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**Attributes:** Experiential Learning Requirement

**BTEC 40196 INDIVIDUAL INVESTIGATION IN BIOTECHNOLOGY (ELR)**  
**2-9 Credit Hours**

(Repeatable for credit) Research experience in biotechnology. Registration requires approval of program director and research director. Written report required.

**Prerequisite:** Biotechnology major.

**Schedule Type:** Individual Investigation

**Contact Hours:** 2-9 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**Attributes:** Experiential Learning Requirement

**BTEC 40210 CASE STUDIES IN BIOTECHNOLOGY (WIC)**  
**3 Credit Hours**

Case studies used to explore biotechnology practice and the application of various technologies in industry and medicine. Emphasis placed on developing problem solving, information gathering, inductive reasoning and technical communication skills.

**Prerequisite:** BTEC 10210; BSCI 30140, 30171, 30156, 40158; CHEM 30284, 40248.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Writing Intensive Course

**BTEC 40220 BIOINFORMATICS**  
**3 Credit Hours**

(Cross-listed with BSCI 40220, BSCI 50220 and BSCI 70220) Analysis of biological databases, including nucleic acid and protein sequence searching, multiple sequence alignment, protein classification, phylogenetic analysis, comparative genomics, proteomics, protein structure analysis.

**Prerequisite:** BSCI 30140 and BSCI 30156 and BSCI 40158.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**BTEC 40463 MEDICAL BIOTECHNOLOGY**  
**3 Credit Hours**

(Cross-listed with BSCI 40463, BSCI 50463 and BSCI 70463) Medical Biotechnology provides a basic understanding of how living cells and cellular materials can be used for medical applications, particularly in the diagnosis and therapy of human diseases.

**Prerequisite:** BSCI 30140.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

## Business Administration (BAD)

**BAD 60092 MBA INTERNSHIP**  
**3 Credit Hours**

(Repeatable for credit) Practical experience with a commercial or non-profit organization under the guidance of a member of the graduate faculty. Periodic progress reports are required with a graduate level quality paper and possible presentation at the end of the course. Students should have a minimum cumulative GPA 3.000 and completed 24 hours in the MBA program.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Practical Experience

**Contact Hours:** 11 other

**Grade Mode:** Standard Letter

**BAD 60095 SPECIAL TOPICS IN BUSINESS ADMINISTRATION**  
**1-3 Credit Hours**

(Repeatable for credit) In-depth exposure to selected topics in business administration. Topics will vary depending on instructor and topic of current interest.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 1-3 lecture

**Grade Mode:** Standard Letter

**BAD 60096 INDIVIDUAL INVESTIGATION**  
**2,3 Credit Hours**

For M.B.A, M.S. or M.A. candidates who have completed a minimum 12 hours of work of superior quality with permission of the director graduate school of management.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Individual Investigation

**Contact Hours:** 2-3 other

**Grade Mode:** Standard Letter

**BAD 60098 RESEARCH**  
**1-15 Credit Hours**

(Repeatable for credit) Research or individual investigation for master's level graduate students. Credits earned may be applied toward meeting degree requirements if the department approves.

**Prerequisite:** Graduate standing.

**Schedule Type:** Research

**Contact Hours:** 1-15 other

**Grade Mode:** Standard Letter

**BAD 67093 WORKSHOP IN ADVANCED BUSINESS TOPICS**  
**1-6 Credit Hours**

(Repeatable for a maximum of 6 credit hours) Designed for those MBA Graduates who want advanced education in selected areas of business. A variety of topics could be addressed in this workshop. The topics may include business technology, innovation in business, advanced leadership and a variety of other areas of interest.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Workshop

**Contact Hours:** 1-6 other

**Grade Mode:** Standard Letter-S/U

**BAD 70198 RESEARCH 1-15 Credit Hours**

(Repeatable for credit) Research or individual investigation for doctoral level students, or master's students with at least 34 hours of graduate coursework.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Research

**Contact Hours:** 1-15 other

**Grade Mode:** Satisfactory/Unsatisfactory

**BAD 71094 COLLEGE TEACHING 1,2 Credit Hour**

(Repeatable for credit) (Cross-listed with BAD 61094) Training, supervision and evaluation in college level instruction. Maximum of 2 hours applicable toward degree.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 1-2 lecture

**Grade Mode:** Satisfactory/Unsatisfactory

**BAD 80091 DOCTORAL SEMINAR 1 Credit Hour**

(Repeatable for credit) A continuing seminar for all students in the Ph.D. program which cuts across all areas of functional specialization.

**Prerequisite:** Admission to PhD program.

**Schedule Type:** Seminar

**Contact Hours:** 1 other

**Grade Mode:** Standard Letter

**BAD 80098 RESEARCH 1-3 Credit Hours**

(Repeatable for credit) Research or individual investigation for doctoral students who have not yet passed their candidacy examination. Usually research applied toward dissertation.

**Prerequisite:** PhD standing; and special approval.

**Schedule Type:** Research

**Contact Hours:** 1-3 other

**Grade Mode:** Standard Letter

**BAD 80199 DISSERTATION I 15 Credit Hours**

(Repeatable for credit) Doctoral dissertation for which registration in at least two semesters is required, first of which will be semester in which dissertation work is begun and continuing until the completion of 30 hours.

**Prerequisite:** Doctoral standing; and special approval.

**Schedule Type:** Dissertation

**Contact Hours:** 15 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**BAD 80299 DISSERTATION II 15 Credit Hours**

(Repeatable for credit) Continuing registration required of doctoral students who have completed the initial 30 hours of dissertation and continuing until all degree requirements are met.

**Prerequisite:** BAD 80199; and doctoral standing.

**Schedule Type:** Dissertation

**Contact Hours:** 15 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

## Business Administration Interdisciplinary (BUS)

**BUS 10123 EXPLORING BUSINESS 3 Credit Hours**

(Equivalent to BMRT 11000) An introduction to the basic areas of business with an integrated perspective on how the various areas work together. Technological competencies and communicative skills will be developed. Team building opportunities will be announced. This course is open to any major. This course should be taken sometime during student's first 30 semester hours.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**BUS 10195 SPECIAL TOPICS 1-3 Credit Hours**

(Repeatable for credit) Special topics course that will be offered on a semester basis with different topics and different faculty.

**Prerequisite:** Permission.

**Schedule Type:** Lecture

**Contact Hours:** 1-3 lecture

**Grade Mode:** Standard Letter-IP

**BUS 20192 INTERNSHIP IN BUSINESS (ELR) 1-3 Credit Hours**

(Repeatable for credit) Preparation of research report concurrent with on-the-job experience with cooperating business or other organization.

**Prerequisite:** Permission.

**Schedule Type:** Practical Experience

**Contact Hours:** 1-3 other

**Grade Mode:** Standard Letter

**Attributes:** Experiential Learning Requirement

**BUS 20195 SPECIAL TOPICS 1-3 Credit Hours**

(Repeatable for credit) Special topics course that will be offered on a semester basis with different topics and different faculty.

**Prerequisite:** Permission.

**Schedule Type:** Lecture

**Contact Hours:** 1-3 lecture

**Grade Mode:** Standard Letter-IP

**BUS 20293 VARIABLE TITLE WORKSHOP IN BUSINESS 1-3 Credit Hours**

(Repeatable for credit) Variable topics.

**Prerequisite:** None.

**Schedule Type:** Workshop

**Contact Hours:** 1-3 other

**Grade Mode:** Satisfactory/Unsatisfactory

**BUS 30062 ADVANCED PROFESSIONAL DEVELOPMENT 3 Credit Hours**

This course provides an application of professional skills required in the workplace. Specifically, students are exposed to research and analysis methods that drive evidence-based conclusions; preparation and delivery of business proposals and reports; face-to-face and virtual team-building and team interaction; professionalism in job-seeking and networking techniques; etiquette involved in various messaging technologies; ethical decision making as well as other general business acumen, leadership, negotiation, critical thinking, time and self-management, conflict resolution, providing and receiving constructive feedback, etiquette appropriate attire.

**Prerequisite:** BUS 10123 and COMM 15000 and UC 10162; and ENG 11011 or HONR 10197.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**BUS 30187 INTERNATIONAL BUSINESS EXPERIENCE 3 Credit Hours**

This is a two to three week course at an international site that explores business in emerging markets across a full range of functions such as marketing, finance, investment, and business strategies.

**Prerequisite:** ECON 22060 and ECON 22061; and special approval from instructor.

**Schedule Type:** Field Experience

**Contact Hours:** 9 other

**Grade Mode:** Standard Letter

**BUS 30195 SPECIAL TOPICS 1-3 Credit Hours**

(Repeatable for credit)Special topics course that will be offered on a semester basis with different topics and different faculty.

**Prerequisite:** Permission.

**Schedule Type:** Lecture

**Contact Hours:** 1-3 lecture

**Grade Mode:** Standard Letter-IP

**BUS 30234 INTERNATIONAL BUSINESS 3 Credit Hours**

Learn how international business is affected by the forces of globalization: opportunities, threats and challenges that ensue from hypercompetition, and the institutional checks and balances necessary to prevent complexity deteriorating into chaos.

**Prerequisite:** ECON 22060 and MGMT 24163.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**BUS 40192 INTERNSHIP IN BUSINESS (ELR) 1-3 Credit Hours**

(Repeatable for credit)Preparation of research report concurrent with on-the-job experience with cooperating business or other organization.

**Prerequisite:** Permission.

**Schedule Type:** Practical Experience

**Contact Hours:** 1-3 other

**Grade Mode:** Standard Letter

**Attributes:** Experiential Learning Requirement

**BUS 40195 SPECIAL TOPICS 1-3 Credit Hours**

(Repeatable for credit)Special topics course that will be offered on a semester basis with different topics and different faculty.

**Prerequisite:** Permission.

**Schedule Type:** Lecture

**Contact Hours:** 1-3 lecture

**Grade Mode:** Standard Letter-IP

## Business Management and Related Technologies (BMRT)

**BMRT 11000 INTRODUCTION TO BUSINESS 3 Credit Hours**

(Equivalent to BUS 10123) Overview of social, economic and consumer environments as related to large and small business. Emphasis is on production, marketing, finance, management and human resources. It is recommended that any reading courses indicated by COMPASS score are taken prior to enrolling in this course.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**BMRT 11006 BUSINESS COMPUTATIONS I 3 Credit Hours**

Application of algebraic and arithmetic concepts to accounting, finance and marketing. Computation of finance charges, taxes, fundamentals of inventory control and depreciation.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**BMRT 11009 INTRODUCTION TO MANAGEMENT TECHNOLOGY 3 Credit Hours**

(Equivalent to MGMT 24163) Study of planning, organizing, directing/ leadership, controlling, staffing, decision making, and communication theories and management applications of human and material resources and methods. It is recommended that any reading courses indicated by COMPASS score are taken prior to enrolling in this course.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**BMRT 21000 BUSINESS LAW AND ETHICS I 3 Credit Hours**

(Equivalent to FIN 26074) Introduction to American law as related to government, business, society and the ethical issues that occur in the legal environment. Emphasis is on contract law. Relevant past and current law issues are addressed.

**Prerequisite:** RC 00006 or minimum 86 Compass Reading score; and ENG 01001, ENG 11011, ENG 21011 or minimum 67 Compass Writing score.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**BMRT 21004 BUSINESS ANALYTICS I 3 Credit Hours**

(Equivalent to MGMT 24056) This course is an introduction to concepts in statistical methods and their application to real-world problems.

This course will examine both the theoretical and practical side of the different methods. Students will be given ample opportunities to apply the techniques to different real-world programs. The goal of the course is for students to understand fundamental statistical concepts and methods, and their applications.

**Prerequisite:** MATH 11010 or MATH 11012 or MATH 12002.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**BMRT 21008 CASE STUDIES IN MANAGEMENT AND ENTREPRENEURSHIP 3 Credit Hours**

Application of management theory to actual business situations. Emphasis on decision making and evaluation of methods and styles of management in all functional areas.

**Prerequisite:** BMRT 11000 or BMRT 11009 or MGMT 24163 or BUS 10123.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**BMRT 21011 FUNDAMENTALS OF FINANCIAL MANAGEMENT 3 Credit Hours**

Understanding basic financial reports for analysis and performance of a business. Preparation of sales forecasts to develop capital and expense budgets.

**Prerequisite:** ACTT 11000 and IT 11000 or special approval of BMRT faculty.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**BMRT 21020 INTRODUCTION TO ENTREPRENEURSHIP 3 Credit Hours**

Provides information about the functional elements of starting a small business. Includes the use of instruments, exercises and case analyses to assess entrepreneurial skills.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter-IP

**BMRT 21023 FINANCING THE BUSINESS VENTURE 3 Credit Hours**

Course deals with determining capital needs, identifying sources of capital, developing a financial plan and interpreting financial statements. Both public and private loan programs will be reviewed.

**Prerequisite:** BMRT 21020 or special approval of full-time BMRT faculty.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**BMRT 21050 FUNDAMENTALS OF MARKETING TECHNOLOGY 3 Credit Hours**

(Equivalent to MKTG 25010) An overview of the process, activities, and problems associated with the conception, planning and execution of pricing, promotion, product and placement of goods and services

**Prerequisite:** ECON 22060.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**BMRT 21052 PROFESSIONAL SELLING TECHNIQUES 3 Credit Hours**

Study of personal selling as a promotional technique to determine and satisfy the needs of buyers and to build a long-term relationship among all parties.

**Prerequisite:** BMRT 11000 or special approval of full-time BMRT faculty.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**BMRT 21053 ADVERTISING IN BUSINESS 3 Credit Hours**

A practical approach to the study of advertising. Emphasis is on the effective use of the media creating advertising operations and advertising management.

**Prerequisite:** BMRT 21050 or special approval of BMRT faculty.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**BMRT 21092 INTERNSHIP IN MANAGEMENT TECHNOLOGY (ELR) 1-3 Credit Hours**

(Repeatable for credit) Students participate in a supervised educational experience. Each credit hour requires a minimum of seven hours work without pay or 10 hours work with pay per week for 15 weeks.

**Prerequisite:** Special approval of full-time BMRT faculty.

**Schedule Type:** Practical Experience

**Contact Hours:** 7-21 other

**Grade Mode:** Standard Letter-IP

**Attributes:** Experiential Learning Requirement

**BMRT 21095 SPECIAL TOPICS 1-3 Credit Hours**

(Repeatable for credit) Special topics in business technology announced when scheduled.

**Prerequisite:** Special approval from full-time BMRT faculty.

**Schedule Type:** Lecture

**Contact Hours:** 1-3 lecture

**Grade Mode:** Standard Letter

**BMRT 21096 INDIVIDUAL INVESTIGATION IN BUSINESS TECHNOLOGY 1-3 Credit Hours**

(Repeatable for credit) Individual study in business and related fields.

**Prerequisite:** Business Management Technology major; and special approval from full-time BMRT faculty.

**Schedule Type:** Individual Investigation

**Contact Hours:** 1-3 other

**Grade Mode:** Standard Letter-IP

**BMRT 22000 GLOBAL LOGISTICS 3 Credit Hours**

The efficient and effective movement of physical goods from point of origin to point of consumption for consumers, businesses, and other organizations. Key areas of study include inbound and outbound logistics, transportation methods, inventory control, warehousing, material handling, information technology, security, risk, and sustainability.

**Prerequisite:** BMRT 11009.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**BMRT 22099 SEMINAR IN LOGISTICS AND SUPPLY CHAIN MANAGEMENT 3 Credit Hours**

Capstone course in Logistics and Supply Chain Management requiring an in-depth analysis of emerging global issues, both qualitative and quantitative. Case studies, research reports and in-depth investigations are incorporated into the course.

**Prerequisite:** BMRT 22000; and Sophomore standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter



**BMRT 31005 PURCHASING AND SUPPLY MANAGEMENT 3 Credit Hours**

Investigates the purchasing, planning and logistics functions of supply chain management. Process control, negotiations, quality control, service measurement and other quantitative methods are covered.

**Prerequisite:** BMRT 11000 or BMRT 11009.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**BMRT 31006 HUMAN RESOURCE MANAGEMENT 3 Credit Hours**

The study of contemporary issues of human resources. Covers planning, job design, selection, appraisal, compensation, training, life quality, safety/health, diversity and unions.

**Prerequisite:** BMRT 11009 or MGMT 24163.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**BMRT 31009 SEMINAR IN MANAGEMENT AND ENTREPRENEURSHIP 3 Credit Hours**

Students of business management technology engage in critical reading, writing and discussion to apply business theory to on-the-job experiences.

**Prerequisite:** BMRT 11000 or BMRT 11009 or MIS 24163 or BUS 10123, and ACTT 11000 or ACTT 11001 or ACCT 23020 or 23021 or equivalent.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**BMRT 32020 LEAN SUSTAINABILITY 1 Credit Hour**

A sustainable business is an enterprise has minimal negative, or a positive impact on Society. Impacts can be environmental, economical, or community based.

**Prerequisite:** BMRT 11009.

**Schedule Type:** Lecture

**Contact Hours:** 1 lecture

**Grade Mode:** Standard Letter

**BMRT 36401 APPLICATIONS OF TECHNOLOGY MANAGEMENT SOFTWARE 3 Credit Hours**

Combination of computer and business applications for managing technology within an organization. Focus is on using emerging computer software programs for the enhancement of decision making. Course is 2 hours lecture, 1 hour lab.

**Prerequisite:** BMRT 11000 and IT 12000; or special approval of full-time Applied Business faculty.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**BMRT 36410 SECURITY FOR BUSINESS STUDENTS 3 Credit Hours**

Concepts and principles of security and safety in industrial and commercial settings. Focus on executive oversight of corporate security functions. Includes risk analysis, security surveys, emergency preparedness and security policies and procedures.

**Prerequisite:** Junior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**BMRT 36415 CUSTOMER SERVICE 3 Credit Hours**

Analysis and definition of customer satisfaction with an emphasis on quality customer service that includes techniques for assessing company service efforts and developing customer satisfaction programs.

**Prerequisite:** Sophomore standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**BMRT 36420 PHYSICAL SECURITY 3 Credit Hours**

Elements of design, technology and procedures that deter, delay, detect and defeat criminal activity. Deployment and optional countermeasures. Budgeting based on risk analysis.

**Prerequisite:** Junior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**BMRT 36430 SECURITY MANAGEMENT 3 Credit Hours**

Principles of security and safety in private business and institutions. Emphasis on proprietary departments and security of those departments. Focus on need for proprietary security organization, internal controls, external threats and electronic devices. Examination of departmental policies and procedures.

**Prerequisite:** Junior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**BMRT 36440 SECURITY INVESTIGATION 3 Credit Hours**

Addresses future of private security, conducting interviews and dealing with testimonial evidence. Following leads, collecting evidence, preserving crime scenes, use of investigative tools, surveillance techniques and report writing.

**Prerequisite:** Junior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**BMRT 40092 PRACTICUM IN APPLIED BUSINESS AND TECHNOLOGY (ELR) 1-4 Credit Hours**

(Repeatable for a maximum of 4 credit hours) On sight internship or a project with a business or technology related organization approved by the Instructor.

**Prerequisite:** Junior standing and special approval.

**Schedule Type:** Field Experience, Practical Experience

**Contact Hours:** 7-28 other

**Grade Mode:** Standard Letter

**Attributes:** Experiential Learning Requirement

**BMRT 40096 INDIVIDUAL INVESTIGATION IN BUSINESS AND TECHNOLOGY 1-4 Credit Hours**

(Repeatable for a maximum of 4 credit hours) Perform an individual project or research assignment as approved by the instructor.

**Prerequisite:** Junior standing; and special approval.

**Schedule Type:** Individual Investigation

**Contact Hours:** 7-28 other

**Grade Mode:** Standard Letter

**BMRT 46295 SPECIAL TOPICS IN APPLIED BUSINESS 2-3 Credit Hours**

(Repeatable for credit) Specialized advance instruction oriented primarily to applied business topics. Topics will vary and will be announced as scheduled.

**Prerequisite:** Special approval.

**Schedule Type:** Lecture

**Contact Hours:** 2-3 lecture

**Grade Mode:** Standard Letter

**BMRT 46409 STRATEGIC MANAGEMENT OF TECHNOLOGY AND INNOVATION 3 Credit Hours**

An examination using case studies and readings of the management of technology and innovation through perspectives at the product line, business unit and corporate levels.

**Prerequisite:** BMRT 21050 and BMRT 21011; and junior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**BMRT 46410 CRISIS AND DISASTER MANAGEMENT PLANNING 3 Credit Hours**

Addresses planning process for mitigation and recovery strategies for natural and man-made crisis and disasters. Includes risk assessment, incident management and planning evaluation.

**Prerequisite:** Junior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**BMRT 46418 LABOR STUDIES IN TECHNOLOGY 3 Credit Hours**

This course will include the history of the labor movement, interrelationships of labor with business and industry, labor law, contemporary labor problems that emphasizes how unions are organized, contracts, arbitration and management issues.

**Prerequisite:** Junior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**BMRT 46420 LEGAL ISSUES IN SECURITY 3 Credit Hours**

Survey of laws applicable to security risks including torts, labor, employment, criminal and constitutional issues.

**Prerequisite:** Junior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

## Career and Community Studies (CCS)

**CCS 00005 COLLEGE ORIENTATION 1 Credit Hour**

This course introduces students to the expectations and responsibilities of being a college student. Students will be provided with valuable information of the resources and activities available at Kent State. Students will explore personal values, skills, abilities, and beliefs, and learn how to set academic goals that will guide them throughout their college experience.

**Prerequisite:** Career and Community Studies, Career Community Studies–College Preparation, Career Community Studies–Employment Readiness majors; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 1 lecture

**Grade Mode:** Satisfactory/Unsatisfactory

**CCS 00010 PERSONAL EXPLORATION I: NUTRITION AND PHYSICAL FITNESS 3 Credit Hours**

This course focuses on the importance of nutrition and physical exercise in order to take care of and to improve upon one's personal health needs.

**Prerequisite:** Career and Community Studies, Career Community Studies–College Preparation, Career Community Studies–Employment Readiness majors.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CCS 00015 ACADEMIC EXPERIENCE I: DISABILITY AWARENESS 3 Credit Hours**

This course promotes development of self-awareness through identifying personal strengths and needs, and self-advocacy skills through various methods of communication. Students will learn of their rights, responsibilities, and of the disabilities laws that help them to advocate for necessary supports.

**Prerequisite:** Career and Community Studies, Career Community Studies–College Preparation, Career Community Studies–Employment Readiness majors.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CCS 00020 TECHNOLOGY LABORATORY I 1 Credit Hour**

This course is an introduction to the uses of Flashline, BlackBoard Learn, and Microsoft Word to enhance student academic performance.

**Prerequisite:** Career and Community Studies, Career Community Studies–College Preparation, Career Community Studies–Employment Readiness majors.

**Schedule Type:** Laboratory

**Contact Hours:** 2 lab

**Grade Mode:** Standard Letter

**CCS 00025 FINANCIAL LITERACY I: BUDGETING PERSONAL EXPENSES IN COLLEGE 1 Credit Hour**

This introductory course will provide the student with an opportunity to develop attitudes and skills to achieve personal financial wellness and satisfaction while in college. Topics include how to set up a budget, considering where one might save money in daily living, and managing expenses.

**Prerequisite:** Career and Community Studies major, Career and Community Studies–College Preparation, or Career and Community Studies–Employment Readiness major.

**Schedule Type:** Lecture

**Contact Hours:** 1 lecture

**Grade Mode:** Standard Letter

**CCS 00030 PHYSICAL EDUCATION I 1 Credit Hour**

Students will participate in a sport or physical fitness activity in order to learn more about the topic of interest and to increase personal health. Students will practice appropriate personal and social skills, and demonstrate abilities to manage course responsibilities.

**Prerequisite:** Career and Community Studies, Career Community Studies–College Preparation, Career Community Studies–Employment Readiness majors.

**Schedule Type:** Laboratory

**Contact Hours:** 2 lab

**Grade Mode:** Satisfactory/Unsatisfactory

**CCS 00035 HEALTH AND WELLNESS I: PERSONAL SOCIAL SKILLS 3 Credit Hours**

Effective communication enhances personal, family, and community health. Select personal and social skills are presented in order to improve the health of the student. The student will participate in activities that allow them to practice and perform skills both in and outside of the classroom. The student creates a portfolio of course assignments for evaluation.

**Prerequisite:** Career and Community Studies, Career Community Studies–College Preparation, Career Community Studies–Employment Readiness majors.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CCS 00040 GET OUT OF YOUR COMFORT ZONE I: PREPARING FOR SUCCESS 3 Credit Hours**

Life begins with one step outside of your comfort zone. This introductory course is designed to teach many different literacy (e.g. reading, writing, speaking, and technology) skills that college students must develop in order for academic, community inclusion and social success, and to expand self-knowledge about personal strengths, preferences, interests, and needs. The student will apply self-determination as they develop skills necessary to attain academic success and to make connections to the university and community beyond.

**Prerequisite:** Career and Community Studies major, Career and Community Studies-College Preparation, or Career and Community Studies-Employment Readiness major.

**Schedule Type:** Laboratory, Lecture, Combined Lecture and Lab

**Contact Hours:** 1 lecture, 6 lab

**Grade Mode:** Standard Letter

**CCS 00105 INTRODUCTION TO CAREER EXPLORATION 1 Credit Hour**

Students begin the exploration process that helps them to become aware of their specific abilities, interests, and needs, and how these relate to their future life work.

**Prerequisite:** Career and Community Studies, Career Community Studies–College Preparation, Career Community Studies–Employment Readiness majors.

**Schedule Type:** Lecture

**Contact Hours:** 1 lecture

**Grade Mode:** Standard Letter

**CCS 00110 PERSONAL EXPLORATION II: INDEPENDENT LIVING AND LEISURE EDUCATION 3 Credit Hours**

This course focuses on two different but related topics. The first half of the semester is designed to provide college students with the opportunity to explore and develop personal leisure values, and expand their leisure interests. During the second half of the semester, students will practice various independent living skills in order to become more responsible adults.

**Prerequisite:** Career and Community Studies, Career Community Studies–College Preparation, Career Community Studies–Employment Readiness majors.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CCS 00115 ACADEMIC EXPERIENCE II: SELF-DETERMINATION 3 Credit Hours**

This course will provide students with opportunities to recognize and develop skills that can help them to increase success in all areas of their lives. Persons who are more self-determined often experience academic, employment, community living and personal satisfaction.

**Prerequisite:** Career and Community Studies, Career Community Studies–College Preparation, Career Community Studies–Employment Readiness majors.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CCS 00120 TECHNOLOGY LABORATORY II 1 Credit Hour**

Introduction to the uses of Microsoft Power Point, Publisher, and Excel in order to connect knowledge and learning experiences for student success.

**Prerequisite:** Career and Community Studies, Career Community Studies–College Preparation, Career Community Studies–Employment Readiness majors.

**Schedule Type:** Laboratory

**Contact Hours:** 2 lab

**Grade Mode:** Standard Letter

**CCS 00125 FINANCIAL LITERACY II: BUDGETING PERSONAL EXPENSES AFTER COLLEGE 1 Credit Hour**

This course will provide the student with a more detailed opportunity to reflect on one's desire and ability to manage money in adult life to achieve personal financial wellness and satisfaction. Topics include earning and saving money, how to calculate wages and understanding federal, state, and local taxes, and establishing a realistic budget that will help the student to transition into adult life.

**Prerequisite:** Career and Community Studies major, Career and Community Studies-College Preparation, or Career and Community Studies-Employment Readiness major.

**Schedule Type:** Lecture

**Contact Hours:** 1 lecture

**Grade Mode:** Standard Letter

**CCS 00130 PHYSICAL EDUCATION II 1 Credit Hour**

Students will participate in a sport or physical fitness activity in order to learn more about the topic of interest and to increase personal health. Students will advance appropriate personal and social skills, and demonstrate increased abilities to manage course responsibilities.

**Prerequisite:** Career and Community Studies, Career Community Studies–College Preparation, Career Community Studies–Employment Readiness majors; and special approval.

**Schedule Type:** Laboratory

**Contact Hours:** 2 lab

**Grade Mode:** Satisfactory/Unsatisfactory

**CCS 00135 HEALTH AND WELLNESS II: HUMAN SEXUALITY 3 Credit Hours**

Focus of the course is to understand behaviors and issues related to human sexuality.

**Prerequisite:** Career and Community Studies, Career Community Studies–College Preparation, Career Community Studies–Employment Readiness majors.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CCS 00140 GET OUT OF YOUR COMFORT ZONE II: VOLUNTEERING**  
**3 Credit Hours**

With busy lives, it can be hard to find time to volunteer. However, the benefits of volunteering are enormous to you, your family, and your community. Volunteering and helping others can help you reduce stress, combat depression, keep you mentally stimulated, and provide a sense of purpose. The student will research and explore various opportunities to volunteer, even in simple ways, that can help others in need and improve student health and happiness.

**Prerequisite:** Career and Community Studies major, Career and Community Studies-College Preparation, or Career and Community Studies-Employment Readiness major.

**Schedule Type:** Laboratory, Lecture, Combined Lecture and Lab

**Contact Hours:** 1 lecture, 6 lab

**Grade Mode:** Standard Letter

**CCS 00196 FRESHMAN INDIVIDUAL STUDY 1-3 Credit Hours**

(Repeatable for credit) Independent Study is a student-initiated experience in order to pursue an area of career interest not covered by a regular course offering; with the approval and guidance of a Career and Community Studies faculty member.

**Prerequisite:** Career and Community Studies, Career Community Studies-College Preparation, Career Community Studies-Employment Readiness majors.

**Schedule Type:** Individual Investigation

**Contact Hours:** 3-9 other

**Grade Mode:** Standard Letter-IP

**CCS 00205 CAREER EXPLORATION I 3 Credit Hours**

This course promotes assessment of specific career skills, interests, and needs, and how these relate to future life work. The student develops career awareness through evaluation of past experiences that have influenced career development and uses person-centered planning tools to develop and implement meaningful future career goals.

**Prerequisite:** Career and Community Studies major, Career and Community Studies-College Preparation, or Career and Community Studies-Employment Readiness major.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CCS 00210 ACADEMIC SUCCESS I 3 Credit Hours**

This introductory course is designed to teach many different literacy (e.g. reading, writing, speaking, and technology) skills that college students must develop in order to have academic and social success. The student will practice to communicate effectively and identify resources available in order to complete coursework assignments and projects.

**Prerequisite:** Career and Community Studies major, Career and Community Studies-College Preparation, or Career and Community Studies-Employment Readiness major.

**Schedule Type:** Laboratory, Lecture, Combined Lecture and Lab

**Contact Hours:** 1 lecture, 6 lab

**Grade Mode:** Standard Letter

**CCS 00215 INTRODUCTION TO COMMUNICATION SKILLS 3 Credit Hours**

This course explores communication theories and practices in group, interpersonal, and public contexts. Students explore the processes of active listening, developing effective communication skills, and the processes of organizing thoughts into clear messages so that others may more easily understand.

**Prerequisite:** Career and Community Studies, Career Community Studies-College Preparation, Career Community Studies-Employment Readiness majors.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Satisfactory/Unsatisfactory

**CCS 00225 FINANCIAL LITERACY III 1 Credit Hour**

This course provides the student with real-life situations to practice basic math skills used in budgeting and managing money wisely. The student recognizes the hidden costs associated with many of the essentials and conveniences they use daily.

**Prerequisite:** Career and Community Studies, Career Community Studies-College Preparation, Career Community Studies-Employment Readiness majors.

**Schedule Type:** Lecture

**Contact Hours:** 1 lecture

**Grade Mode:** Standard Letter

**CCS 00235 HEALTH AND WELLNESS III: INJURY PREVENTION 3 Credit Hours**

The focus of the course is to understand behaviors and issues related to personal injury and safety.

**Prerequisite:** Career and Community Studies, Career Community Studies-College Preparation, Career Community Studies-Employment Readiness majors.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CCS 00292 SOPHOMORE PRACTICUM I 3 Credit Hours**

(Repeatable for credit) This course provides the student with the opportunity to develop crucial work skills that are important in any employment positions. The student gains self-awareness of their work skills and habits and receives support as they prepare for the career that they ultimately desire.

**Prerequisite:** Career and Community Studies, Career Community Studies-College Preparation, Career Community Studies-Employment Readiness majors; and special approval.

**Schedule Type:** Practical Experience

**Contact Hours:** 9 other

**Grade Mode:** Standard Letter-IP

**CCS 00296 SOPHOMORE INDEPENDENT STUDY 1-3 Credit Hours**

(Repeatable for credit) Independent Study is a student-initiated experience in order to pursue an area of career interest not covered by a regular course offering, with the approval and guidance of a Career and Community Studies faculty member.

**Prerequisite:** Career and Community Studies, Career Community Studies-College Preparation, Career Community Studies-Employment Readiness majors.

**Schedule Type:** Individual Investigation

**Contact Hours:** 3-9 other

**Grade Mode:** Standard Letter-IP

**CCS 00305 CAREER EXPLORATION II 3 Credit Hours**

The purpose of this course is to help the student to narrow career possibilities and to identify the career of their choice. The student conducts research into an identified career field in order to list the necessary skills, to investigate local occupational opportunities, and to specify any training experiences that are available to advance knowledge and skills in this area.

**Prerequisite:** CCS 00205; and Career and Community Studies major, Career and Community Studies-College Preparation, or Career and Community Studies-Employment Readiness major.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CCS 00310 ACADEMIC SUCCESS II 3 Credit Hours**

This course supports the student as they advance skills in learning strategies, critical thinking, problem-solving, and study skills; and as they apply skills to coursework that prepares for a specific career interest. The student practices effective communication through reading, writing, and speaking while completing assignments and projects.

**Prerequisite:** Career and Community Studies major, Career and Community Studies-College Preparation, or Career and Community Studies-Employment Readiness major.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 1 lecture, 6 lab

**Grade Mode:** Standard Letter

**CCS 00325 FINANCIAL LITERACY IV 1 Credit Hour**

The student will understand how credit card debt, personal loans for housing, leisure, or transportation needs, and investing in savings and bonds can have an effect on the lifestyle that one hopes to achieve.

Making wise financial decisions and planning is important when becoming an independent adult.

**Prerequisite:** Career and Community Studies, Career Community Studies-College Preparation, Career Community Studies-Employment Readiness majors.

**Schedule Type:** Lecture

**Contact Hours:** 1 lecture

**Grade Mode:** Standard Letter

**CCS 00335 HEALTH AND WELLNESS IV: HEALTHY LIVING AND SUBSTANCE ABUSE 3 Credit Hours**

This course will support behavior that encourages students to make responsible choices for lifelong health and wellness through instruction and active participation. Topics to be discussed include personal and social skills, nutrition and fitness, developing coping skills, sexuality education, substance use, and injury prevention.

**Prerequisite:** Career and Community Studies, Career Community Studies-College Preparation, Career Community Studies-Employment Readiness majors.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CCS 00392 SOPHOMORE PRACTICUM II 3 Credit Hours**

(Repeatable for credit) This course provides the student with additional opportunities to develop crucial work skills that are important in all employment positions. The student expands self-awareness of their work skills and habits and receives support as they prepare for the career that they ultimately desire.

**Prerequisite:** Career and Community Studies, Career Community Studies-College Preparation, Career Community Studies-Employment Readiness majors.

**Schedule Type:** Practical Experience

**Contact Hours:** 9 other

**Grade Mode:** Standard Letter-IP

**CCS 00395 SPECIAL TOPICS 1-4 Credit Hours**

(Repeatable for credit) Course topic will vary depending upon individual career choices. The student will participate in courses with like-minded peers in order to gain knowledge and skills in the career field of interest. Students must get approval from their academic advisor and course faculty prior to taking this course.

**Prerequisite:** Career and Community Studies, Career Community Studies-College Preparation, Career Community Studies-Employment Readiness majors; and special approval.

**Schedule Type:** Laboratory, Lecture

**Contact Hours:** 1-4 lecture, 2-8 lab

**Grade Mode:** Satisfactory/Unsatisfactory

**CCS 00396 JUNIOR INDEPENDENT STUDY 1-3 Credit Hours**

(Repeatable for credit) Independent Study is a student-initiated experience in order to pursue an area of career interest not covered by a regular course offering, with the approval and guidance of a Career and Community Studies faculty member.

**Prerequisite:** Career and Community Studies, Career Community Studies-College Preparation, Career Community Studies-Employment Readiness majors; and special approval.

**Schedule Type:** Individual Investigation

**Contact Hours:** 3-9 other

**Grade Mode:** Standard Letter-IP

**CCS 00405 CAREER PREPARATION I: CHOOSING YOUR CAREER 3 Credit Hours**

This course prepares the student for entering the work force by creating a resume, practicing interviewing skills, and by developing networks of people who can help them to achieve their career goals. The student will participate in job shadowing opportunities in order to better understand the expectations and requirements of the career field of interest.

**Prerequisite:** Career and Community Studies, Career Community Studies-College Preparation, Career Community Studies-Employment Readiness majors.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CCS 00420 ACADEMIC SUPPORT I 3 Credit Hours**

This course provides support to the student as they advance in goal setting and attainment skills. The student is supported as they increase critical thinking skills and monitors academic progress; and as they complete course assignments while working towards becoming an organized and self-determined student.

**Prerequisite:** Career and Community Studies, Career Community Studies-College Preparation, Career Community Studies-Employment Readiness majors.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter



**CCS 00492 JUNIOR PRACTICUM III 4 Credit Hours**

(Repeatable for credit) Once a career has been initially identified, it is important early on for the student to be exposed to the requirements and environments of that field. Students will be provided opportunities to perform work relevant to their career choice. Evaluating the fit helps to ensure that they have chosen wisely. In-progress (IP) mark permissible.

**Prerequisite:** Career and Community Studies, Career Community Studies–College Preparation, Career Community Studies–Employment Readiness majors.

**Schedule Type:** Practical Experience

**Contact Hours:** 12 other

**Grade Mode:** Standard Letter-IP

**CCS 00495 SPECIAL TOPICS 1-4 Credit Hours**

(Repeatable for credit) Course topic will vary depending upon individual career choices. The student will participate in courses with like-minded peers in order to gain knowledge and skills in the career field of interest. Students must get approval from their academic advisor and course faculty prior to taking this course.

**Prerequisite:** Career and Community Studies, Career Community Studies–College Preparation, Career Community Studies–Employment Readiness majors; and special approval.

**Schedule Type:** Laboratory, Lecture

**Contact Hours:** 1-4 lecture, 1-4 lab

**Grade Mode:** Satisfactory/Unsatisfactory

**CCS 00496 SENIOR INDEPENDENT STUDY 1-3 Credit Hours**

Independent Study is a student-initiated experience in order to pursue an area of career interest not covered by a regular course offering, with the approval and guidance of a Career and Community Studies faculty member.

**Prerequisite:** Career and Community Studies, Career Community Studies–College Preparation, Career Community Studies–Employment Readiness majors.

**Schedule Type:** Individual Investigation

**Contact Hours:** 3-9 other

**Grade Mode:** Standard Letter-IP

**CCS 00505 CAREER PREPARATION II 3 Credit Hours**

This course is designed to continue to prepare the student for entering into the work force by expanding interview skills and by locating and utilizing resources such as state employment and vocational rehabilitation services to promote career decisions.

**Prerequisite:** CCS 00405; and Career and Community Studies, Career Community Studies–College Preparation, Career Community Studies–Employment Readiness majors.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CCS 00520 ACADEMIC SUPPORT II 3 Credit Hours**

This sequenced course continues to provide support to the student as they advance in goal setting and attainment skills. The student is supported as they increase critical thinking skills, monitors progress, and receives support as they complete course assignments pertaining to career goals while working towards becoming an organized and self-determined student.

**Prerequisite:** CCS 00420; and Career and Community Studies, Career Community Studies–College Preparation, Career Community Studies–Employment Readiness majors.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CCS 00592 JUNIOR PRACTICUM IV 4 Credit Hours**

(Repeatable for credit) This course provides additional opportunities for the student to be exposed to the requirements and environments of the career field to ensure the student's commitment to the career choice. Additionally, the student continues to develop appropriate work habits and behaviors while obtaining specific occupation skills.

**Prerequisite:** Career and Community Studies, Career Community Studies–College Preparation, Career Community Studies–Employment Readiness majors; and special approval.

**Schedule Type:** Practical Experience

**Contact Hours:** 12 other

**Grade Mode:** Standard Letter-IP

**CCS 00595 SPECIAL TOPICS 1-4 Credit Hours**

(Repeatable for credit) Course topic will vary depending upon individual career choices. The student will participate in courses with like-minded peers in order to gain knowledge and skills in the career field of interest. Students must get approval from their academic advisor and course faculty prior to taking this course.

**Prerequisite:** Career and Community Studies, Career Community Studies–College Preparation, Career Community Studies–Employment Readiness majors; and special approval.

**Schedule Type:** Laboratory, Lecture

**Contact Hours:** 2-8 lab

**Grade Mode:** Satisfactory/Unsatisfactory

**CCS 00605 COMMUNITY LIFE I: PREPARE FOR EMPLOYMENT AFTER COLLEGE 1 Credit Hour**

This course guides the student as they prepare for employment by completing on-line employment recognized certifications that apply to career interest as they plan for transitioning back to the community in which they will work after graduation. The student considers personal strengths, preferences, interests, and needs as they relate to career specific qualifications.

**Prerequisite:** Career and Community Studies major, Career Community Studies-College Preparation major, or Career Community Studies-Employment Readiness major.

**Corequisite:** CCS 00606.

**Schedule Type:** Lecture

**Contact Hours:** 1 lecture

**Grade Mode:** Standard Letter

**CCS 00606 COMMUNITY LIFE I LABORATORY 3 Credit Hours**

Using the Personal Profile created in a coexisting course, the student will complete on-line employment recognized certifications in preparation for their identified career field.

**Prerequisite:** Career and Community Studies major, Career and Community Studies-College Preparation, or Career and Community Studies-Employment Readiness major.

**Corequisite:** CCS 00605.

**Schedule Type:** Laboratory

**Contact Hours:** 9 lab

**Grade Mode:** Standard Letter

**CCS 00692 SENIOR INTERNSHIP I 1-12 Credit Hours**

(Repeatable for credit) Internship courses are credit-bearing work experiences that are integrated with academic instruction and relate to an individual student's career goals. The internship occurs in a natural community setting and provides an environment and context to integrate specific career knowledge, skills, and professional behaviors.

**Prerequisite:** Career and Community Studies, Career Community Studies–College Preparation, Career Community Studies–Employment Readiness majors; and special approval.

**Schedule Type:** Practical Experience

**Contact Hours:** 3-36 other

**Grade Mode:** Standard Letter-IP

**CCS 00695 SPECIAL TOPICS 1-4 Credit Hours**

(Repeatable for credit) Course topic will vary depending upon individual career choices. The student will participate in courses with like-minded peers in order to gain knowledge and skills in the career field of interest. Students must get approval from their academic advisor and course faculty prior to taking this course.

**Prerequisite:** Career and Community Studies, Career Community Studies–College Preparation, Career Community Studies–Employment Readiness majors.

**Schedule Type:** Laboratory, Lecture

**Contact Hours:** 1-4 lecture, 2-8 lab

**Grade Mode:** Satisfactory/Unsatisfactory

**CCS 00705 COMMUNITY LIFE II: MAKING COMMUNITY CONNECTIONS 1 Credit Hour**

In this class, the student will discuss and design a plan to develop two valuable resources to aid in the transition back to their community. One is a portfolio that contains cumulative projects that will serve as a resource guide. The other is a Person-Centered Plan that identifies past, present, and future skill and goal development.

**Prerequisite:** Career and Community Studies major, Career and Community Studies-College Preparation, or Career and Community Studies-Employment Readiness major.

**Corequisite:** CCS 00705.

**Schedule Type:** Lecture

**Contact Hours:** 1 lecture

**Grade Mode:** Standard Letter

**CCS 00706 COMMUNITY LIFE II LABORATORY 3 Credit Hours**

The student will create a portfolio of documents completed throughout the four year college experience that showcase accomplishments in domains of Wellness, Community Inclusion, and Career Preparation. The student will also create a Person-Centered Plan that is useful to achieving life goals after graduation.

**Prerequisite:** Career and Community Studies major, Career and Community Studies-College Preparation, or Career and Community Studies-Employment Readiness major.

**Corequisite:** CCS 00705.

**Schedule Type:** Laboratory

**Contact Hours:** 9 lab

**Grade Mode:** Standard Letter

**CCS 00792 SENIOR INTERNSHIP II 1-12 Credit Hours**

(Repeatable for credit) Internship courses are credit-bearing work experiences that are integrated with academic instruction and relate to an individual student's career goals. The internship occurs in a natural community setting and provides an environment and context to integrate specific career knowledge, skills, and professional behaviors.

**Prerequisite:** Career and Community Studies, Career Community Studies–College Preparation, Career Community Studies–Employment Readiness majors; and special approval.

**Schedule Type:** Practical Experience

**Contact Hours:** 3-36 other

**Grade Mode:** Standard Letter-IP

**CCS 00795 SPECIAL TOPICS 1-4 Credit Hours**

(Repeatable for credit) Course topic will vary depending upon individual career choices. The student will participate in courses with like-minded peers in order to gain knowledge and skills in the career field of interest. Students must get approval from their academic advisor and course faculty prior to taking this course.

**Prerequisite:** Career and Community Studies, Career Community Studies–College Preparation, Career Community Studies–Employment Readiness majors; and special approval.

**Schedule Type:** Laboratory, Lecture

**Contact Hours:** 1-4 lecture, 2-8 lab

**Grade Mode:** Satisfactory/Unsatisfactory

## Career and Technical Teacher Education (CTTE)

**CTTE 36014 EVALUATION PRACTICES IN CAREER TECHNICAL EDUCATION 3 Credit Hours**

Study and construction of evaluation devices for use in laboratory and related technology courses, test construction, standardized and nonstandardized test procedures. This course includes 10 field/clinical hours.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CTTE 40093 VARIABLE TOPIC WORKSHOP IN CAREER TECHNICAL EDUCATION 1-5 Credit Hours**

(Repeatable for credit) (Slashed with CTTE 50093 and CTTE 70093) Topics of special interest to students desiring to intensify their knowledge in a particular area of career technical education.

**Prerequisite:** Department permission.

**Schedule Type:** Workshop

**Contact Hours:** 1-5 other

**Grade Mode:** Satisfactory/Unsatisfactory

**CTTE 44092 IN-SERVICE TEACHING - PRACTICUM (ELR) 2 Credit Hours**

(Slashed with CTTE 54092) This course provides an overview of/and practice in the concepts necessary to plan, organize and implement meaningful instruction in the laboratory and related classroom. The course provides an opportunity for students to apply classroom management skills as they get one-on-one support from the teacher educators.

**Prerequisite:** None.

**Schedule Type:** Practical Experience

**Contact Hours:** 36 other

**Grade Mode:** Standard Letter

**Attributes:** Experiential Learning Requirement

**CTTE 44099 IN-SERVICE TEACHING - CAPSTONE (ELR) 1 Credit Hour**

(Slashed with CTTE 54099) The capstone course provides students an opportunity to demonstrate their knowledge and growth as a career technical education teacher; it essentially provides an opportunity for students to show how they integrate and apply knowledge from their career technical education licensure courses into their responsibilities as teachers. The course will assess the extent to which the students meet the Ohio Standards for the Teaching Profession, through an electronic portfolio and instructional videos from the student as evidence.

**Prerequisite:** None.

**Schedule Type:** Project or Capstone

**Contact Hours:** 1 other

**Grade Mode:** Standard Letter

**Attributes:** Experiential Learning Requirement

**CTTE 45372 ISSUES IN CAREER TECHNICAL EDUCATION SUBJECTS 3 Credit Hours**

(Slashed with CTTE 55372) Exploration of issues and trends unique to specific career technical education subjects.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CTTE 45377 CAREER AND TECHNICAL EDUCATION: ADVANCED METHODOLOGIES 3 Credit Hours**

Selection, organization and presentation of subject matter pertaining to specific subjects in career and technical education. Emphasis on methods and techniques through theory and practice. Course includes 30 field/clinical hours. Students are required to complete Bureau of Criminal Investigation and Identification (BCII) and Federal Bureau of Investigation (FBI) background checks and submit the results to authorized personnel at their assigned school/agency before the first day of the semester in which student teaching/ internship will take place.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CTTE 46001 ORGANIZATION OF CAREER AND TECHNICAL EDUCATION (WIC) 3 Credit Hours**

(Slashed with CTTE 56001) Study of the principles and subject areas related to career and technical education at middle school, secondary and adult education levels.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Writing Intensive Course

**CTTE 46002 IN-SERVICE TEACHING (ELR) 3 Credit Hours**

(Slashed with CTTE 56002) Overview of teaching process in career technical teacher education. Emphasizes techniques of skill development and assessment, includes organizing for instruction, individual behavior, organizational relationships and application steps.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Experiential Learning Requirement

**CTTE 46015 METHODS OF CAREER AND TECHNICAL EDUCATION 3 Credit Hours**

(Slashed with CTTE 56015) Organization and management of classroom and laboratory; includes purchasing equipment and supplies, safety instruction planning, establishing policies, maintaining records, and individual and group instructional strategies.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CTTE 46017 STUDENT-CENTERED LEADERSHIP IN CAREER TECHNICAL EDUCATION 3 Credit Hours**

Study of the role of leadership and youth organizations in Career Technical Education with emphasis on the organization and purpose of student leadership and the role of the advisor related to leadership in career technical education.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CTTE 46018 DISADVANTAGED YOUTH IN CAREER TECHNICAL EDUCATION (WIC) 3 Credit Hours**

(Slashed with CTTE 56018) Developing an understanding of disadvantaged youth stressing their characteristics as they pertain to career technical education program. This course is restricted to Trade & Industrial majors, students registered in the undergraduate Career-Technical Teacher certificate, of those working on a Career-Based Intervention endorsement.

**Prerequisite:** Trade and Industrial Education majors or Career-Technical Teacher Education (C205) certificate.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Writing Intensive Course

**CTTE 46019 COORDINATION OF CAREER TECHNICAL COOPERATIVE EDUCATION PROGRAMS 3 Credit Hours**

(Slashed with CTTE 56019) Reviews duties, problems, techniques of home, school and work coordination. Internship site selection, job development, servicing the job station, coordinating classroom and work experience. A study of important linkage to local business/industry and education support agencies for career and technical development.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CTTE 46020 CURRICULUM GUIDE: DESIGN AND APPLICATION 3 Credit Hours**

Methods and techniques involved in developing and utilizing a curriculum guide in career and technical education subjects. This course includes 15 field/clinical hours. Students are required to complete Bureau of Criminal Investigation and Identification (BCII) and Federal Bureau of Investigation (FBI) background checks and submit the results to authorized personnel at their assigned school/agency before the first day of the semester in which student teaching/ internship will take place.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CTTE 46095 SPECIAL TOPICS IN CAREER TECHNICAL EDUCATION 1-3 Credit Hours**

(Repeatable for credit) Specialized offerings in response to emerging or selected program needs in career-technical education.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 1-3 lecture

**Grade Mode:** Standard Letter

**CTTE 46096 INDIVIDUAL INVESTIGATION IN CAREER TECHNICAL EDUCATION 1-3 Credit Hours**

(Repeatable for credit) (Slashed with CTTE 56096) An individual investigation into problems and topics in career technical education. The investigation is pursued on an individual basis with an assigned faculty member.

**Prerequisite:** None.

**Schedule Type:** Individual Investigation

**Contact Hours:** 1-3 other

**Grade Mode:** Satisfactory/Unsatisfactory

**CTTE 49525 INQUIRY INTO PROFESSIONAL PRACTICE 3 Credit Hours**

Interdisciplinary inquiry into career/technical teaching as a professional practice in education; emphasis on teacher as disciplined investigator. Final course of four. Combination of themes utilization of teaching learning technologies.

**Prerequisite:** Admission to advanced study.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CTTE 50093 VARIABLE TOPIC WORKSHOP IN CAREER TECHNICAL EDUCATION 1-5 Credit Hours**

(Repeatable for credit) (Slashed with CTTE 40093 and CTTE 70093) Topics of special interest to students desiring to intensify their knowledge in a particular area or areas of career technical education.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Workshop

**Contact Hours:** 1-5 other

**Grade Mode:** Satisfactory/Unsatisfactory

**CTTE 54092 IN-SERVICE TEACHING - PRACTICUM 2 Credit Hours**

(Slashed with CTTE 44092) This course provides an overview of/and practice in the concepts necessary to plan, organize and implement meaningful instruction in the laboratory and related classroom. The course provides an opportunity for students to apply classroom management skills and as they get one-on-one support from the teacher educators.

**Prerequisite:** Graduate standing.

**Schedule Type:** Practical Experience

**Contact Hours:** 36 other

**Grade Mode:** Standard Letter

**CTTE 54099 IN-SERVICE TEACHING - CAPSTONE 1 Credit Hour**

(Slashed with CTTE 44099) The capstone course provides students an opportunity to demonstrate their knowledge and growth as a career technical education teacher; it essentially provides an opportunity for students to show how they integrate and apply knowledge from their career technical education licensure courses into their responsibilities as teachers. The course will assess the extent to which the students meet the Ohio Standards for the Teaching Profession, through an electronic portfolio and instructional videos from the student as evidence.

**Prerequisite:** Graduate standing.

**Schedule Type:** Project or Capstone

**Contact Hours:** 1 other

**Grade Mode:** Standard Letter

**CTTE 55372 ISSUES IN CAREER TECHNICAL EDUCATION SUBJECTS 3 Credit Hours**

(Slashed with CTTE 45372) Exploration of issues and trends unique to specific career-technical education subjects.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CTTE 55377 CAREER AND TECHNICAL EDUCATION:ADVANCED METHODOLOGIES 3 Credit Hours**

(Slashed with CTTE 45377) Selection, organization and presentation of subject matter pertaining to specific subjects in career and technical education. Emphasis on methods and techniques through theory and practice. Course includes 30 field clinical hours.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CTTE 56001 ORGANIZATION OF CAREER AND TECHNICAL EDUCATION 3 Credit Hours**

(Slashed with CTTE 46001) Study of the principles and subject areas related to career and technical education at middle school, secondary and adult education levels.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CTTE 56002 IN-SERVICE TEACHING 3 Credit Hours**

(Slashed with CTTE 46002) Overview of teaching process in career technical teacher education. Emphasizes techniques of skill development and assessment, includes organizing for instruction, individual behavior, organizational relationships and application steps.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CTTE 56015 METHODS OF CAREER AND TECHNICAL EDUCATION 3 Credit Hours**

(Slashed with CTTE 46015) Organization and management of classroom and laboratory; includes purchasing equipment and supplies, safety instruction planning, establishing policies, maintaining records, and individual and group instructional strategies.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CTTE 56017 STUDENT-CENTERED LEADERSHIP IN CAREER TECHNICAL EDUCATION 3 Credit Hours**

Study of the role of leadership and youth organizations in Career Technical Education with emphasis on the organization and purpose of student leadership and the role of the advisor related to leadership in career technical education.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CTTE 56018 DISADVANTAGED YOUTH IN CAREER TECHNICAL EDUCATION 3 Credit Hours**

(Slashed with CTTE 46018) Developing an understanding of disadvantaged youth stressing their characteristics as they pertain to career technical education programs.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CTTE 56019 COORDINATION OF CAREER TECHNICAL COOPERATIVE EDUCATION PROGRAMS 3 Credit Hours**

(Slashed with CTTE 46019) Reviews duties, problems, techniques of home, school and work coordination. Internship site selection, job development, servicing the job station, coordinating classroom and work experience. A study of important linkage to local business/ industry and education support agencies for career and technical development.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CTTE 56020 CURRICULUM GUIDE: DESIGN AND APPLICATION 3 Credit Hours**

(Slashed with CTTE 46020) Methods and techniques involved in developing and utilizing a curriculum guide in career and technical education subjects. This course includes 15 field clinical hours.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CTTE 56095 SPECIAL TOPICS IN CAREER TECHNICAL EDUCATION 1-3 Credit Hours**

(Repeatable for credit) Specialized offerings in response to emerging or selected program needs in career-technical education.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 1-3 lecture

**Grade Mode:** Standard Letter

**CTTE 56096 INDIVIDUAL INVESTIGATION IN CAREER TECHNICAL EDUCATION 1-3 Credit Hours**

(Repeatable for credit) (Slashed with CTTE 46096) An individual investigation into problems and topics in career technical education. The investigation is pursued on an individual basis with an assigned faculty member.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Individual Investigation

**Contact Hours:** 1-3 other

**Grade Mode:** Satisfactory/Unsatisfactory

**CTTE 59525 INQUIRY INTO PROFESSIONAL PRACTICE 3 Credit Hours**

(Slashed with CTTE 49525) Interdisciplinary inquiry into career/technical teaching as a professional practice in education; emphasis on teacher as disciplined investigator. Final course of four. Combination of themes; utilization of teaching/learning technologies.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CTTE 60199 THESIS I 2-6 Credit Hours**

Thesis students must register for a total of 6 hours, 2 to 6 hours in a single semester distributed over several semesters if desired.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Masters Thesis

**Contact Hours:** 2-6 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**CTTE 60299 THESIS II 2 Credit Hours**

Thesis students must continue registration each semester until all degree requirements are met.

**Prerequisite:** CTTE 60199; and graduate standing.

**Schedule Type:** Masters Thesis

**Contact Hours:** 2 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**CTTE 66001 PRINCIPLES AND PRACTICES IN CAREER TECHNICAL EDUCATION 3 Credit Hours**

Study of principles, current practices and trends relating to modern programs of career technical education and relationships to the total plan of public education.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CTTE 66003 ANALYSIS OF HUMAN RESOURCE DEVELOPMENT 3 Credit Hours**

Provides analysis of human resource development from global, national state and local perspectives including social economic political and demographic influences. Includes the application of the contemporary workforce to engage in life long learning to keep career and technical skills updated.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CTTE 66004 PROGRAM EVALUATION IN CAREER TECHNICAL EDUCATION 3 Credit Hours**

Designed to provide the skills and knowledge necessary to evaluate the effectiveness and efficiency of career-technical education curriculum programs personnel.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter



**CTTE 66005 SPECIAL POPULATIONS IN CAREER TECHNICAL EDUCATION 3 Credit Hours**

A study of the special populations student in career technical education programs emphasizing characteristics, curriculum modification, instruction and job placement.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CTTE 66095 SPECIAL TOPICS IN CAREER-TECHNICAL EDUCATION 1-3 Credit Hours**

(Repeatable for credit) Specialized offerings in response to emerging or selected program needs in career-technical education.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 1-3 lecture

**Grade Mode:** Standard Letter

**CTTE 66096 INDIVIDUAL INVESTIGATION IN CAREER-TECHNICAL EDUCATION 1-3 Credit Hours**

(Repeatable for credit) (Slashed with CTTE 76096) An investigation into problems and topics in career technical education. The investigation is pursued on an individual basis with an assigned faculty member.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Individual Investigation

**Contact Hours:** 1-3 other

**Grade Mode:** Satisfactory/Unsatisfactory

**CTTE 70093 VARIABLE TOPIC WORKSHOP IN CAREER TECHNICAL EDUCATION 1-5 Credit Hours**

(Repeatable for credit) (Slashed with CTTE 40093 and CTTE 50093)

Topics of special interest to students desiring to intensify their knowledge in a particular area or areas of career technical education.

**Prerequisite:** Doctoral standing; and special approval.

**Schedule Type:** Workshop

**Contact Hours:** 1-5 other

**Grade Mode:** Satisfactory/Unsatisfactory

**CTTE 76095 SPECIAL TOPICS IN CAREER-TECHNICAL EDUCATION 1-3 Credit Hours**

(Repeatable for credit) Specialized offerings in response to emerging or selected program needs in career-technical education.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 1-3 lecture

**Grade Mode:** Standard Letter

**CTTE 76096 INDIVIDUAL INVESTIGATION IN CAREER-TECHNICAL EDUCATION 1-3 Credit Hours**

(Repeatable for credit) (Slashed with CTTE 66096) An investigation into problems and topics in career technical education. The investigation is pursued on an individual basis with an assigned faculty member.

**Prerequisite:** Doctoral standing; and special approval.

**Schedule Type:** Individual Investigation

**Contact Hours:** 1-3 other

**Grade Mode:** Satisfactory/Unsatisfactory

**CTTE 86098 ADVANCED RESEARCH IN CAREER-TECHNICAL EDUCATION 1-15 Credit Hours**

(Repeatable for credit) Student pursues an individual research project on a specialized career technical education topic with approval and under the direction of an instructor.

**Prerequisite:** Doctoral standing; and special approval.

**Schedule Type:** Research

**Contact Hours:** 1-15 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

## Chemistry (CHEM)

**CHEM 00020 INTRODUCTION TO CHEMISTRY 2 Credit Hours**

Problem-based introduction to the fundamentals of chemistry including significant figures, unit conversions, measurement, structure of matter, energy, composition of matter, atomic structure, the periodic table, introduction to bonding, and the formulas and names of both ionic and covalent compounds. Course does not count toward graduation.

**Prerequisite:** Math ACT score of 18; or ALEKS math assessment score of 45; or minimum C grade in any MATH course.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**CHEM 10030 CHEMISTRY IN OUR WORLD (KBS) 3 Credit Hours**

A course for non-science majors that utilizes environmental and consumer topics to introduce chemical principles and develop critical-thinking skills.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Kent Core Basic Sciences, Transfer Module Natural Sciences

**CHEM 10031 CHEMISTRY IN OUR WORLD LABORATORY (KBS) (KLAB) 1 Credit Hour**

Discovery-based experiments to introduce chemical principles and develop critical-thinking skills. A course for non-science majors; includes chemistry that is related to environmental and consumer issues.

**Pre/corequisite:** CHEM 10030.

**Schedule Type:** Laboratory

**Contact Hours:** 3 lab

**Grade Mode:** Standard Letter

**Attributes:** Kent Core Basic Sciences, Kent Core Basic Sciences Lab, Transfer Module Natural Sciences

**CHEM 10050 FUNDAMENTALS OF CHEMISTRY (KBS) 3 Credit Hours**

Basic concepts of chemistry (including atomic structure, chemical bonding and reactions) necessary for courses in elementary organic chemistry and physiological chemistry. Students may only receive credit toward graduation for one of the following courses: CHEM 10050; or CHEM 10060 and 10061; or CHEM 10970 and 10971.

**Prerequisite:** Minimum 16 ACT math score or MATH 10675 or MATH 11009 or MATH 11010 or MATH 11012 or MATH 12002 or MATH 12011 or MATH 12021.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Kent Core Basic Sciences, Transfer Module Natural Sciences

**CHEM 10052 INTRODUCTION TO ORGANIC CHEMISTRY (KBS) 2 Credit Hours**

Chemistry of organic and biological molecules necessary for the study of physiological chemistry. Students may only receive credit toward graduation for one of the following courses: CHEM 10052; or CHEM 20481 and 20482; or CHEM 30481 and 30482.

**Prerequisite:** CHEM 10050 or 10060.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**Attributes:** Kent Core Basic Sciences, Transfer Module Natural Sciences

**CHEM 10053 INORGANIC AND ORGANIC LABORATORY (KBS) (KLAB) 1 Credit Hour**

Laboratory with experiments covering material from CHEM 10050 and 10052. Students may only receive credit toward graduation for one of the following courses: CHEM 10053; or CHEM 10062 and 10063.

**Prerequisite:** CHEM 10050.

**Corequisite:** CHEM 10052.

**Schedule Type:** Laboratory

**Contact Hours:** 3 lab

**Grade Mode:** Standard Letter

**Attributes:** Kent Core Basic Sciences, Kent Core Basic Sciences Lab, Transfer Module Natural Sciences

**CHEM 10055 MOLECULES OF LIFE (KBS) 3 Credit Hours**

An integrated introduction to molecular systems and their participation in the processes of life.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Kent Core Basic Sciences

**CHEM 10060 GENERAL CHEMISTRY I (KBS) 4 Credit Hours**

Chemistry for science majors, emphasizing stoichiometry, introduction to chemical reactions, thermochemistry, atomic structure, periodicity, molecular structure and chemical bonding. Students who register for this course must successfully complete the departmentally-approved placement assessment prior to the start of the term. Students who do not complete the placement assessment and associated modules will be deregistered. Students will be informed of the requirement by the Department of Chemistry and Biochemistry. Students may only receive credit toward graduation for one of the following courses: CHEM 10050 or CHEM 10055 or CHEM 10060 or CHEM 10970. Prerequisite: Minimum 55 ALEKS math score; or minimum 22 ACT math score; or minimum 530 SAT math score; or minimum C grade in MATH 10675; or minimum C grade in any course MATH 11009 to MATH 49999 (MATH 14001 and MATH 14002 are not acceptable)

**Schedule Type:** Lecture

**Contact Hours:** 4 lecture

**Grade Mode:** Standard Letter

**Attributes:** Kent Core Basic Sciences, TAG Science

**CHEM 10061 GENERAL CHEMISTRY II (KBS) 4 Credit Hours**

Continuation of CHEM 10060, emphasizing intermolecular forces, properties of mixtures, main group chemistry, kinetics, equilibrium, acid-base chemistry, thermodynamics and electrochemistry. Students may only receive credit toward graduation for one of the following courses: CHEM 10050 or CHEM 10055 or CHEM 10061 or CHEM 10971.

**Prerequisite:** Minimum C grade in either CHEM 10060 or CHEM 10970.

**Schedule Type:** Lecture

**Contact Hours:** 4 lecture

**Grade Mode:** Standard Letter

**Attributes:** Kent Core Basic Sciences, TAG Science

**CHEM 10062 GENERAL CHEMISTRY I LABORATORY (KBS) (KLAB) 1 Credit Hour**

Laboratory covering pertinent aspects of CHEM 10060. Three hours weekly. Students may only receive credit toward graduation for one of the following courses: CHEM 10053 or CHEM 10062.

**Pre/corequisite:** CHEM 10060 or CHEM 10970.

**Schedule Type:** Laboratory

**Contact Hours:** 3 lab

**Grade Mode:** Standard Letter

**Attributes:** Kent Core Basic Sciences, Kent Core Basic Sciences Lab, TAG Science

**CHEM 10063 GENERAL CHEMISTRY II LABORATORY (KBS) (KLAB) 1 Credit Hour**

Laboratory covering pertinent aspects of CHEM 10061, including qualitative analysis. Students may only receive credit toward graduation for one of the following courses: CHEM 10053 or CHEM 10063.

**Prerequisite:** CHEM 10062.

**Pre/corequisite:** CHEM 10061 or CHEM 10971.

**Schedule Type:** Laboratory

**Contact Hours:** 3 lab

**Grade Mode:** Standard Letter

**Attributes:** Kent Core Basic Sciences, Kent Core Basic Sciences Lab, TAG Science

**CHEM 10970 HONORS GENERAL CHEMISTRY I (KBS) 4 Credit Hours**

Rigorous general chemistry course for qualified students. Stoichiometry, equilibrium, thermochemistry, atomic structure and chemical bonding, descriptive inorganic and nuclear chemistry.

**Prerequisite:** Special approval.

**Schedule Type:** Lecture

**Contact Hours:** 4 lecture

**Grade Mode:** Standard Letter

**Attributes:** Kent Core Basic Sciences

**CHEM 10971 HONORS GENERAL CHEMISTRY II (KBS) 4 Credit Hours**

A continuation of CHEM 10970. Topics include properties of mixtures, properties of the elements, periodic patterns, organic compounds, kinetics, equilibrium, thermodynamics and electrochemistry.

**Prerequisite:** Minimum C grade in CHEM 10970.

**Schedule Type:** Lecture

**Contact Hours:** 4 lecture

**Grade Mode:** Standard Letter

**Attributes:** Kent Core Basic Sciences

**CHEM 20050 CAREER PATHWAYS IN CHEMISTRY 1 Credit Hour**

Designed to introduce students to the wide range of career pathways available in chemistry. Students will learn different strategies for identifying and pursuing career opportunities, and will develop their communication skills through writing assignments and oral presentations.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 1 lecture

**Grade Mode:** Satisfactory/Unsatisfactory

**CHEM 20095 SPECIAL TOPICS 1-3 Credit Hours**

(Repeatable for credit) Selected topics in chemistry.

**Prerequisite:** Special approval.

**Schedule Type:** Lecture

**Contact Hours:** 1-3 lecture

**Grade Mode:** Standard Letter

**CHEM 20098 INTRODUCTION TO CHEMICAL RESEARCH (ELR) 1-3 Credit Hours**

Research experience for freshmen and sophomores. Registration requires prior approval of the research director. Does not count toward the electives for the BS or BA chemistry degree. A written report is required.

**Prerequisite:** Minimum overall 2.500 GPA in Chemistry and special approval.

**Schedule Type:** Research

**Contact Hours:** 1-3 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**Attributes:** Experiential Learning Requirement

**CHEM 20481 BASIC ORGANIC CHEMISTRY I 4 Credit Hours**

Survey of the structure, preparation and reactions (including mechanisms) of organic compounds emphasizing the chemistry of biologically important functional groups. Students may only receive credit toward graduation for one of the following courses: CHEM 10052 or CHEM 10055 or CHEM 20481 or CHEM 30481.

**Prerequisite:** Minimum C grade in CHEM 10061 or CHEM 10971.

**Schedule Type:** Lecture

**Contact Hours:** 4 lecture

**Grade Mode:** Standard Letter

**Attributes:** TAG Science

**CHEM 20482 BASIC ORGANIC CHEMISTRY II 2 Credit Hours**

Continuation of CHEM 20481, emphasizing the chemistry of functional groups prevalent in biological chemistry. Students may only receive credit toward graduation for one of the following courses: CHEM 10052 or CHEM 10055 or CHEM 20482 or CHEM 30482.

**Prerequisite:** Minimum C grade in CHEM 20481.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**Attributes:** TAG Science

**CHEM 30050 INTRODUCTION TO MATERIALS CHEMISTRY 2 Credit Hours**

This course provides an introduction to materials and their applications. It serves as the initiation for the materials chemistry concentration.

**Prerequisite:** CHEM 10061 or CHEM 10971; and CHEM 30481 and PHY 23101.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**CHEM 30105 ANALYTICAL CHEMISTRY I 3 Credit Hours**

Covers the fundamental theory, experimental methods, and applications of analytical chemistry principles in chemistry as well as other related disciplines such as life sciences and environmental science. It covers analytical measurements, experimental error, statistics, chemical equilibrium and titration, spectrometry as well as analytical separation techniques. Prerequisite: CHEM 10061 or CHEM 10971

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CHEM 30106 ANALYTICAL CHEMISTRY II 2 Credit Hours**

Covers the theoretical basis and experimental methods of analytical chemistry not considered in Analytical Chemistry I (CHEM 30105), such as noise reduction, advanced chemical equilibria and titrations, electrochemistry, atomic spectroscopy, instrumental design, and sample preparation.

**Prerequisite:** CHEM 30105.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**CHEM 30107 ANALYTICAL CHEMISTRY LABORATORY I (WIC) 1 Credit Hour**

Fundamental laboratory class for analytical chemistry. Provides hands-on experience to students on the subjects including data treatment, volumetric analysis, spectrophotometry, separation techniques and mass spectroscopy.

**Prerequisite:** CHEM 10063.

**Pre/corequisite:** CHEM 30105.

**Schedule Type:** Laboratory

**Contact Hours:** 3 lab

**Grade Mode:** Standard Letter

**Attributes:** Writing Intensive Course

**CHEM 30108 ANALYTICAL CHEMISTRY LABORATORY II (WIC) 2 Credit Hours**

Advanced analytical chemistry laboratory class which covers a broad range of modern analytical techniques, including ion-selective electrodes, voltammetry, atomic spectroscopy, mass-spectrometry and capillary electrophoresis. Unlike Analytical Chemistry Laboratory I (CHEM 30107) this class focuses on forensic rather than bioanalytical applications.

**Prerequisite:** CHEM 30105.

**Pre/corequisite:** CHEM 30107.

**Schedule Type:** Laboratory

**Contact Hours:** 6 lab

**Grade Mode:** Standard Letter

**Attributes:** Writing Intensive Course

**CHEM 30284 INTRODUCTORY BIOLOGICAL CHEMISTRY 4 Credit Hours**

Chemistry and metabolism of biochemically important compounds; nature of enzyme action; metabolic regulation and bioenergetics.

**Prerequisite:** CHEM 20481; or CHEM 30481 and CHEM 30482.

**Schedule Type:** Lecture

**Contact Hours:** 4 lecture

**Grade Mode:** Standard Letter

**CHEM 30301 INORGANIC CHEMISTRY I 2 Credit Hours**

Chemistry of hydrogen, ions in aqueous solution, redox reactions, coordination complexes: d-block chemistry, crystal field model, electronic spectra and magnetism, introduction to organometallic chemistry, periodic trends for p-block elements.

**Prerequisite:** CHEM 10061 or CHEM 10971.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**CHEM 30475 ORGANIC CHEMISTRY LABORATORY I (ELR) 1 Credit Hour**

Practical experience in organic laboratory techniques on both micro- and macroscale: physical methods for purification and characterization of organic compounds, introduction to organic reactions.

**Prerequisite:** CHEM 10063.

**Pre/corequisite:** CHEM 20481 or 30481.

**Schedule Type:** Laboratory

**Contact Hours:** 1 lab

**Grade Mode:** Standard Letter

**Attributes:** Experiential Learning Requirement, TAG Science

**CHEM 30476 ORGANIC CHEMISTRY LABORATORY II 1 Credit Hour**

Continuation of CHEM 30475, involving multi-step organic experiments that utilize techniques introduced in CHEM 30475.

**Prerequisite:** CHEM 30475.

**Pre/corequisite:** CHEM 20482 or 30482.

**Schedule Type:** Laboratory

**Contact Hours:** 1 lab

**Grade Mode:** Standard Letter

**Attributes:** TAG Science

**CHEM 30481 ORGANIC CHEMISTRY I 3 Credit Hours**

Introduction to organic chemistry from structural, mechanistic and synthetic viewpoints with an emphasis on the chemistry of biologically relevant functional groups. Students may only receive credit toward graduation for one of the following courses: CHEM 10052 or CHEM 10055 or CHEM 20481 or CHEM 30481.

**Prerequisite:** Minimum C grade in CHEM 10061 or CHEM 10971.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CHEM 30482 ORGANIC CHEMISTRY II 3 Credit Hours**

Continuation of CHEM 30481; organic chemistry from mechanistic and synthetic viewpoints; IR and NMR spectroscopy; mass spectrometry. Students may only receive credit toward graduation for one of the following courses: CHEM 10052 or CHEM 10055 or CHEM 20482 or CHEM 30482.

**Prerequisite:** Minimum C grade in CHEM 30481.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CHEM 40053 MATERIALS CHEMISTRY LABORATORY 2 Credit Hours**

Exploration of the synthesis, characterization and application of inorganic and organic materials.

**Prerequisite:** CHEM 30050.

**Schedule Type:** Laboratory

**Contact Hours:** 2 lab

**Grade Mode:** Standard Letter

**CHEM 40092 INTERNSHIP IN CHEMISTRY AND BIOCHEMISTRY (ELR) 1-9 Credit Hours**

Workplace experience in chemistry or biochemistry relevant to a student's career objectives. Includes career advising and job search strategies. Comprehensive written report and presentation of activities required after completion of internship.

**Prerequisite:** Junior standing; and special approval.

**Schedule Type:** Practical Experience

**Contact Hours:** 3-27 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**Attributes:** Experiential Learning Requirement

**CHEM 40093 VARIABLE TITLE WORKSHOP IN CHEMISTRY 1-6 Credit Hours**

(Repeatable for credit) Variable titled workshop in chemistry.

**Prerequisite:** Special approval.

**Schedule Type:** Workshop

**Contact Hours:** 1-6 other

**Grade Mode:** Satisfactory/Unsatisfactory

**CHEM 40099 SENIOR HONORS THESIS (ELR) 1-10 Credit Hours**

(Repeatable for credit) For departmental honors may be started summer prior to senior year. Register each semester during senior year. Minimum total credit 5-hours.

**Prerequisite:** Departmental and honors college approval.

**Schedule Type:** Senior Project/Honors Thesis

**Contact Hours:** 1-10 other

**Grade Mode:** Standard Letter-IP

**Attributes:** Experiential Learning Requirement

**CHEM 40109 BIOANALYTICAL CHEMISTRY 3 Credit Hours**

(Slashed with CHEM 50109 and CHEM 70109) Covers traditional as well as newly emerging topics in the field of bioanalytical chemistry. Provides an overview of the fundamental biological targets for bioanalytical assays, such as lipids, peptides, proteins, nucleic acids and cells. Briefly introduces traditional tools, such as chromatography, electrophoresis, mass spectrometry, fluorescence techniques, immunoassays, and biosensors. Discusses approaches most recently developed in the field, which include lab-on-a-chip and single molecule techniques.

**Prerequisite:** CHEM 30105.

**Pre/corequisite:** CHEM 30284 or CHEM 40245 or CHEM 40261.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CHEM 40110 ANALYTICAL MASS SPECTROMETRY 3 Credit Hours**

(Slashed with CHEM 50110 and CHEM 70110) Survey of modern techniques in and associated with mass spectrometry, including historical perspectives, strengths and weaknesses, detection and quantification of analytes, ionization source and mass analyzer design, as well as construction of associated technologies including vacuum systems, ion detection, and ion optics. Ion formation processes will also be discussed.

**Prerequisite:** Minimum C grade in CHEM 30105; and a minimum C grade in MATH 12002 or MATH 12021.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CHEM 40113 CHEMICAL SEPARATIONS 3 Credit Hours**

(Cross-listed with CHEM 50113 and CHEM 70113) Theory, instrumentation and applications of chemical separations for chemical analysis with an emphasis on gas and liquid chromatography.

**Prerequisite:** CHEM 30106.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CHEM 40116 SPECTROCHEMICAL METHODS OF ANALYSIS 3 Credit Hours**

(Slashed with CHEM 50116 and CHEM 70116) Presented material is designed to familiarize students with fundamental concepts in spectrochemical analyses, mainly in the form of optical spectroscopic methods. Design and construction of spectroscopic instruments, detection and quantification of analytes, interaction of electromagnetic radiation with molecules, as well as collection and processing of analytical signals will be presented.

**Prerequisite:** Minimum C grade in CHEM 30105; and a minimum C grade in MATH 12002 or MATH 12021.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CHEM 40195 SPECIAL TOPICS IN ANALYTICAL CHEMISTRY 1-3 Credit Hours**

(Repeatable for credit) Selected topics in analytical chemistry.

**Prerequisite:** Special approval.

**Schedule Type:** Lecture

**Contact Hours:** 1-3 lecture

**Grade Mode:** Standard Letter

**CHEM 40245 BIOCHEMICAL FOUNDATIONS OF MEDICINE 4 Credit Hours**

(Slashed with CHEM 50245) Chemistry and metabolism of biologically important compounds; enzyme catalysis; metabolic regulation, inborn and induced errors of metabolism. Does not count toward the BS Chemistry (Biochemistry Concentration) or BS Chemistry (Biochemistry-Pre-Medicine, Pre-Osteopathy, Pre-Dentistry Concentration)

**Prerequisite:** CHEM 30481.

**Pre/corequisite:** CHEM 30482.

**Schedule Type:** Lecture

**Contact Hours:** 4 lecture

**Grade Mode:** Standard Letter

**CHEM 40248 ADVANCED BIOLOGICAL CHEMISTRY 3 Credit Hours**

(Slashed with CHEM 50248 and CHEM 70248) Supra-molecular structures of DNA, advanced topics in DNA replication, recombination, damage and repair; gene transcription, Pre-RNA processing, mRNA translation, post-translational modifications on proteins; protein folding, protein splicing, sorting of proteins in different parts of the cells, and protein turn-over; cell signaling and cell cycle; and genetic diseases and their therapies.

**Prerequisite:** CHEM 30284 or CHEM 40245.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CHEM 40251 ADVANCED BIOLOGICAL CHEMISTRY LABORATORY (WIC) 2 Credit Hours**

Practical experience in the characterization of biomolecules; recombinant DNA technology; electrophoretic separation of macromolecules, affinity purification; mass spectrometric approaches; protein folding; RNA structure, interactions and catalytic mechanisms.

**Pre/corequisite:** CHEM 40262.

**Schedule Type:** Lecture

**Contact Hours:** 6 lab

**Grade Mode:** Standard Letter

**Attributes:** Writing Intensive Course

**CHEM 40261 PRINCIPLES OF BIOCHEMISTRY I 3 Credit Hours**

(Cross-listed with CHEM 50261 and CHEM 70261) Introduction to biochemical principles regarding the structure and function of biomolecules including water, amino acids, proteins, carbohydrates and lipids; emphasis on enzymes, membranes and bioenergetics.

**Prerequisite:** CHEM 20481 or CHEM 30482.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CHEM 40262 PRINCIPLES OF BIOCHEMISTRY II 3 Credit Hours**

(Cross-listed with CHEM 50262 and CHEM 70262) Aspects of biochemistry focusing on information, chemical and energy flow, including: integration of metabolic pathways; DNA replication, repair, recombination and modification; transcription and translation; signal transduction, post-translational modification.

**Prerequisite:** CHEM 40261.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CHEM 40263 PHYSICAL BIOCHEMISTRY 3 Credit Hours**

(Slashed with CHEM 50263 and CHEM 70263) Principles and techniques of physical chemistry used in studying biomacromolecules and biological systems, spectroscopy, structure and properties of biological molecules.

**Prerequisite:** CHEM 40555 or CHEM 40567; and CHEM 30284 or CHEM 40245 or CHEM 40261.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CHEM 40264 MEDICAL BIOCHEMISTRY 3 Credit Hours**

(Slashed with CHEM 50264 and CHEM 70264) The course provides an in-depth exploration of the biochemical basis for disease and its application to clinical medicine with an emphasis on new discoveries and other advances.

**Prerequisite:** CHEM 40262 or BSCI 40143.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CHEM 40295 SPECIAL TOPICS IN BIOCHEMISTRY 1-3 Credit Hours**

(Repeatable for credit) Selected topics in biochemistry.

**Prerequisite:** Special approval.

**Schedule Type:** Lecture

**Contact Hours:** 1-3 lecture

**Grade Mode:** Standard Letter



**CHEM 40302 INORGANIC CHEMISTRY II 2 Credit Hours**

(Cross-listed with CHEM 50302) Physical techniques in inorganic chemistry, molecular structure and bonding, metallic and ionic solids, organometallic chemistry, homogeneous and heterogeneous catalysis; solid-state and materials chemistry, nanomaterials, nanoscience and nanotechnology.

**Prerequisite:** CHEM 30301.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**CHEM 40303 INORGANIC CHEMISTRY III 2 Credit Hours**

(Cross-listed with CHEM 50303) Molecular symmetry, molecular orbital theory of polyatomic molecules and octahedra complexes, electronic spectra and reaction mechanisms of d-block complexes, periodic trends Groups 1 and 2 and d-block, bioinorganic chemistry.

**Prerequisite:** CHEM 40302.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**CHEM 40352 INORGANIC MATERIALS CHEMISTRY 3 Credit Hours**

(Slashed with CHEM 50352 and CHEM 70352) Broad survey of the synthesis, properties, characterization and applications of inorganic materials.

**Prerequisite:** CHEM 40302.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CHEM 40364 INTERMEDIATE INORGANIC CHEMISTRY LAB 1 Credit Hour**

A laboratory course providing experience in the synthesis of significant inorganic compounds and the techniques of various experimental and spectroscopic methods and chromatographic separations.

**Prerequisite:** CHEM 40302.

**Schedule Type:** Laboratory

**Contact Hours:** 3 lab

**Grade Mode:** Standard Letter

**CHEM 40365 BIOLOGICAL INORGANIC CHEMISTRY 3 Credit Hours**

(Slashed with CHEM 50365 and CHEM 70365) Physical methods, s-block metals, metal ion-induced folding, electron transfer proteins, oxidoreductases, substrate binding and activation by non-redox mechanisms, biomineralization, group-atom transfer and metals in medicine.

**Prerequisite:** CHEM 30301.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CHEM 40395 SPECIAL TOPICS IN INORGANIC CHEMISTRY 1-3 Credit Hours**

(Repeatable for credit) Selected topics in inorganic chemistry.

**Prerequisite:** Special approval.

**Schedule Type:** Lecture

**Contact Hours:** 1-3 lecture

**Grade Mode:** Standard Letter

**CHEM 40451 ORGANIC MATERIALS CHEMISTRY 3 Credit Hours**

(Slashed with CHEM 50451 and CHEM 70451) Broad survey of the synthesis, properties, characterization and applications of organic and polymeric materials.

**Prerequisite:** CHEM 30482.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CHEM 40476 SPECTROSCOPIC IDENTIFICATION OF ORGANIC COMPOUNDS 2 Credit Hours**

(Slashed with CHEM 50476 and CHEM 70476) Strategies for structural elucidation of organic compounds from analysis of infrared, proton and carbon NMR, and mass spectrometric data through lectures and problem solving.

**Prerequisite:** CHEM 30482.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**CHEM 40477 INTERMEDIATE ORGANIC CHEMISTRY LABORATORY 1 Credit Hour**

Continuation of CHEM 30476, including hands-on use of a high-field NMR spectrometer; single and multistep organic syntheses.

**Prerequisite:** CHEM 30476 and CHEM 40483.

**Schedule Type:** Laboratory

**Contact Hours:** 1 lab

**Grade Mode:** Standard Letter

**CHEM 40478 SYNTHESIS OF ORGANIC LIQUID CRYSTALS 3 Credit Hours**

(Slashed with CHEM 50478 and CHEM 70478) Synthesis of organic thermotropic liquid crystals including nematic, smectic and discotic variants. Evaluation of the phase types using polarizing microscopy and DSC. Brief introduction into their use in display devices.

**Prerequisite:** CHEM 30482.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CHEM 40483 INTERMEDIATE ORGANIC CHEMISTRY 1 Credit Hour**

Continuation of CHEM 30482; organic chemistry from mechanistic and synthetic viewpoints, including synthetic design, organotransition metal chemistry and free radical chemistry.

**Prerequisite:** A minimum C grade in CHEM 30482.

**Schedule Type:** Lecture

**Contact Hours:** 1 lecture

**Grade Mode:** Standard Letter

**CHEM 40495 SPECIAL TOPICS IN ORGANIC CHEMISTRY 1-3 Credit Hours**

(Repeatable for credit) Selected topics in organic chemistry.

**Prerequisite:** Special approval.

**Schedule Type:** Lecture

**Contact Hours:** 1-3 lecture

**Grade Mode:** Standard Letter

**CHEM 40555 PHYSICAL CHEMISTRY I 3 Credit Hours**

(Slashed with CHEM 50555 and CHEM 70555) Fundamental concepts of physical chemistry, with example problems chosen emphasizing applications in chemistry and the biological sciences.

**Prerequisite:** Minimum C grade in CHEM 10061 or CHEM 10971; and a minimum MATH 12003; and PHY 23102.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CHEM 40556 PHYSICAL CHEMISTRY II 3 Credit Hours**

(Slashed with CHEM 50556 and CHEM 70556) A continuation of CHEM 40555. Areas covered include quantum mechanics, atomic and molecular structure, spectroscopy, statistical mechanics, theories of reaction rates and the solid state.

**Prerequisite:** CHEM 40555 or PHY 45301.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CHEM 40557 PHYSICAL CHEMISTRY LABORATORY 2 Credit Hours**

(Slashed with CHEM 50557 and CHEM 70557) Experiments in numerous areas of physical chemistry, including the interpretation and reporting of obtained experimental data, correlation of results with theory and an introduction to the computer treatment of data.

**Prerequisite:** CHEM 40556.

**Schedule Type:** Laboratory

**Contact Hours:** 3 lab

**Grade Mode:** Standard Letter

**CHEM 40559 NANOMATERIALS 3 Credit Hours**

(Slashed with CHEM 50559 and CHEM 70559) Fundamental aspects of nanomaterials ranging from nanoparticles to three-dimensional (3D) nanostructures emphasizing their synthesis, chemistry and applications.

**Prerequisite:** CHEM 10061 or CHEM 10971 and; CHEM 40555 or CHEM 40567.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CHEM 40567 PHYSICAL CHEMISTRY FOR LIFE SCIENCES 4 Credit Hours**

Traditional aspects of physical chemistry with minimal calculus treatment. Applications to the health sciences emphasized.

**Prerequisite:** Minimum C grade in CHEM 10061 or CHEM 10971; and MATH 12002 or MATH 12021.

**Pre/corequisite:** PHY 13002 or PHY 23102.

**Schedule Type:** Lecture

**Contact Hours:** 4 lecture

**Grade Mode:** Standard Letter

**CHEM 40568 ELEMENTARY PHYSICAL CHEMISTRY LABORATORY 1 Credit Hour**

Provides hands-on experience with calorimetry, viscosimetry and spectroscopic techniques.

**Prerequisite:** CHEM 40555 or CHEM 40567.

**Schedule Type:** Laboratory

**Contact Hours:** 1 lab

**Grade Mode:** Standard Letter

**CHEM 40571 SURFACE CHEMISTRY 2 Credit Hours**

(Slashed with CHEM 50571 and CHEM 70571) Treatment of basic principles and concepts in surface and colloid chemistry. Relationship to practical systems emphasized. Two hours lecture weekly.

**Prerequisite:** CHEM 40555 or CHEM 40567.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**CHEM 40595 SPECIAL TOPICS IN PHYSICAL CHEMISTRY 1-3 Credit Hours**

(Repeatable for credit) Selected topics in physical chemistry.

**Prerequisite:** Special approval.

**Schedule Type:** Lecture

**Contact Hours:** 1-3 lecture

**Grade Mode:** Standard Letter

**CHEM 40795 CURRENT TOPICS IN CHEMICAL EDUCATION 1-3 Credit Hours**

(Repeatable for credit) (Cross-listed with CHEM 50795) Recent advances in chemical research, instrumentation and theory important to chemical educators.

**Prerequisite:** Permission.

**Schedule Type:** Lecture

**Contact Hours:** 1-3 lecture

**Grade Mode:** Satisfactory/Unsatisfactory

**CHEM 40796 INDIVIDUAL INVESTIGATION 1-8 Credit Hours**

(Repeatable for credit) Registration requires prior approval of the research director. Written report required. Maximum of two hours may be applied to the four hour CHEM 40000 elective requirement for the chemistry concentration within the B.S. in Chemistry.

**Prerequisite:** Minimum 2.500 overall GPA in Chemistry; and special approval.

**Schedule Type:** Individual Investigation

**Contact Hours:** 1-8 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**CHEM 41010 BIOPHOTONICS 3 Credit Hours**

(Slashed with CHEM 51010; Cross-listed with BSCI 41110 and BSCI 51110 and PHY 41010 and PHY 51010) Interdisciplinary overview of the basics of biophotonics; application of biophotonic techniques to probe biological samples. Introduction to the foundations of optics and photonics and how the molecular structure of organic molecules translates into unique photonic properties and targeting in biological cells or tissue. Preparation of fluorescent materials, advanced spectroscopy and cell visualization using regular and confocal fluorescence microscopy.

**Prerequisite:** Special approval.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 1 lecture, 6 lab

**Grade Mode:** Standard Letter

**CHEM 50093 VARIABLE TITLE WORKSHOP IN CHEMISTRY 1-6 Credit Hours**

(Repeatable for credit) Variable titled workshop in chemistry.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Workshop

**Contact Hours:** 1-6 other

**Grade Mode:** Satisfactory/Unsatisfactory

**CHEM 50109 BIOANALYTICAL CHEMISTRY 3 Credit Hours**  
 (Slashed with CHEM 40109 and CHEM 70109) Covers traditional as well as newly emerging topics in the field of bioanalytical chemistry. The course will provide an overview of the fundamental biological targets for the bioanalytical assays, such as lipids, peptides, proteins, nucleic acids, and cells. The course will then briefly introduce traditional tools, such as chromatography, electrophoresis, mass spectrometry, fluorescence techniques, immunoassays, and biosensors. Finally, the course will discuss approaches most recently developed in the field, which include lab-on-a-chip and single molecule techniques.  
**Prerequisite:** CHEM 30105; and graduate standing; and special approval.  
**Corequisite:** CHEM 30284 or 40245 or 40261.  
**Schedule Type:** Lecture  
**Contact Hours:** 3 lecture  
**Grade Mode:** Standard Letter

**CHEM 50110 ANALYTICAL MASS SPECTROMETRY 3 Credit Hours**  
 (Slashed with CHEM 40110 and CHEM 70110) Survey of modern techniques in and associated with mass spectrometry, including historical perspectives, strengths and weaknesses, detection and quantification of analytes, ionization source and mass analyzer design, as well as construction of associated technologies including vacuum systems, ion detection, and ion optics. Ion formation processes will also be discussed.  
**Prerequisite:** Graduate standing in Chemistry.  
**Schedule Type:** Lecture  
**Contact Hours:** 3 lecture  
**Grade Mode:** Standard Letter

**CHEM 50113 CHEMICAL SEPARATIONS 3 Credit Hours**  
 (Slashed with CHEM 40113 and CHEM 70113) Theory, instrumentation and applications of chemical separations for chemical analysis. Emphasis on gas and liquid chromatography.  
**Prerequisite:** CHEM 30106; and graduate standing.  
**Schedule Type:** Lecture  
**Contact Hours:** 3 lecture  
**Grade Mode:** Standard Letter

**CHEM 50116 SPECTROCHEMICAL METHODS OF ANALYSIS 3 Credit Hours**  
 (Slashed with CHEM 40116 and CHEM 70116) Presented material is designed to familiarize students with fundamental concepts in spectrochemical analyses, mainly in the form of optical spectroscopic methods. Design and construction of spectroscopic instruments, detection and quantification of analytes, interaction of electromagnetic radiation with molecules, as well as collection and processing of analytical signals will be presented.  
**Prerequisite:** Graduate standing in Chemistry.  
**Schedule Type:** Lecture  
**Contact Hours:** 3 lecture  
**Grade Mode:** Standard Letter

**CHEM 50166 PRINCIPLES AND APPLICATIONS IN ANALYTICAL CHEMISTRY 2 Credit Hours**  
 Survey of important principles and concepts and their application in Analytical Chemistry.  
**Prerequisite:** Graduate standing.  
**Schedule Type:** Lecture  
**Contact Hours:** 2 lecture  
**Grade Mode:** Standard Letter

**CHEM 50245 BIOCHEMICAL FOUNDATIONS OF MEDICINE 4 Credit Hours**  
 (Slashed with CHEM 40245) Introduction to chemistry and metabolism of important compounds in biological systems; enzymes and characteristics of enzyme catalysis; regulation of metabolism at molecular, cellular and organism levels; inborn and induced errors of metabolism. Designed and scheduled for and priority given to students in integrated life sciences program.  
**Prerequisite:** CHEM 30481; and graduate standing.  
**Schedule Type:** Lecture  
**Contact Hours:** 4 lecture  
**Grade Mode:** Standard Letter

**CHEM 50248 ADVANCED BIOLOGICAL CHEMISTRY 3 Credit Hours**  
 (Slashed with CHEM 40248 and CHEM 70248) Supra-molecular structures of DNA, advanced topics in DNA replication, recombination, damage and repair; gene transcription, Pre-RNA processing, mRNA translation, post-translational modifications on proteins; protein folding, protein splicing, sorting of proteins in different parts of the cells, and protein turn-over; cell signaling and cell cycle; and genetic diseases and their therapies.  
**Prerequisite:** Graduate standing.  
**Schedule Type:** Lecture  
**Contact Hours:** 3 lecture  
**Grade Mode:** Standard Letter

**CHEM 50261 PRINCIPLES OF BIOCHEMISTRY I 3 Credit Hours**  
 (Slashed with CHEM 40261 and CHEM 70261) Introduction to biochemical principles regarding the structure and function of biomolecules including water, amino acids, proteins, carbohydrates and lipids; emphases on enzymes, membranes and bioenergetics.  
**Prerequisite:** Graduate standing.  
**Schedule Type:** Lecture  
**Contact Hours:** 3 lecture  
**Grade Mode:** Standard Letter

**CHEM 50262 PRINCIPLES OF BIOCHEMISTRY II 3 Credit Hours**  
 (Slashed with CHEM 40262 and CHEM 70262) Aspects of biochemistry focusing on information, chemical and energy flow, including: integration of metabolic pathways; DNA replication, repair, recombination and modification; transcription and translation; signal transduction, and post-translational modification.  
**Prerequisite:** CHEM 50261 or CHEM 70261; and graduate standing.  
**Schedule Type:** Lecture  
**Contact Hours:** 3 lecture  
**Grade Mode:** Standard Letter

**CHEM 50263 PHYSICAL BIOCHEMISTRY 3 Credit Hours**  
 (Slashed with CHEM 40263 and CHEM 70263) Principles and techniques of physical chemistry used in studying biomacro-molecules and biological systems. Topics covered are thermodynamics, spectroscopy, structure and properties of biological molecules.  
**Prerequisite:** Graduate standing in Chemistry.  
**Schedule Type:** Lecture  
**Contact Hours:** 3 lecture  
**Grade Mode:** Standard Letter

**CHEM 50264 MEDICAL BIOCHEMISTRY 3 Credit Hours**

(Slashed with CHEM 40624 and CHEM 70624) Course provides an in-depth exploration of the biochemical basis for disease and its application to clinical medicine with an emphasis on new discoveries and other advances.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CHEM 50266 PRINCIPLES AND APPLICATIONS IN BIOCHEMISTRY 2 Credit Hours**

Survey of important principles and concepts and their application in biochemistry.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture, 2 lab

**Grade Mode:** Standard Letter

**CHEM 50302 INORGANIC CHEMISTRY II 2 Credit Hours**

(Slashed with CHEM 40302) Physical techniques in inorganic chemistry, molecular structure and bonding, metallic and ionic solids, organometallic chemistry, homogeneous and heterogeneous catalysis; solid-state and materials chemistry, nanomaterials, nanoscience and nanotechnology.

**Prerequisite:** CHEM 30301; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**CHEM 50303 INORGANIC CHEMISTRY III 2 Credit Hours**

(Slashed with CHEM 40303) Molecular symmetry, molecular orbital theory of polyatomic molecules and octahedral complexes, electronic spectra and reaction mechanisms of d-block complexes, periodic trends Groups 1 and 2 and d-block, bioinorganic chemistry.

**Prerequisite:** CHEM 50302; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**CHEM 50352 INORGANIC MATERIALS CHEMISTRY 3 Credit Hours**

(Slashed with CHEM 40352 and CHEM 70352) Broad survey of the synthesis, properties, characterization and applications of inorganic materials.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CHEM 50365 BIOLOGICAL INORGANIC CHEMISTRY 3 Credit Hours**

(Slashed with CHEM 40365 and CHEM 70365) Physical methods, s-block metals, metal-induced stabilization, electron transfer proteins, oxidoreductases, hydrolases and lyases, metal transport and storage, nitrogenases, group-atom transfer and metals in medicine.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CHEM 50366 PRINCIPLES AND APPLICATIONS IN INORGANIC CHEMISTRY 2 Credit Hours**

Survey of important principles and concepts and their application in inorganic chemistry.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**CHEM 50451 ORGANIC MATERIALS CHEMISTRY 3 Credit Hours**

(Slashed with CHEM 40451 and CHEM 70451) Broad survey of the synthesis, properties, characterization and applications of organic and polymeric materials.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CHEM 50466 PRINCIPLES AND APPLICATIONS IN ORGANIC CHEMISTRY 2 Credit Hours**

Survey of important principles and concepts and their application in Organic Chemistry.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**CHEM 50476 SPECTROSCOPIC IDENTIFICATION OF ORGANIC COMPOUNDS 2 Credit Hours**

(Slashed with CHEM 40476 and CHEM 70476) Strategies for structural elucidation of organic compounds from analysis of infrared, proton and carbon NMR and mass spectrometric data through lectures and problem solving.

**Prerequisite:** CHEM 30482; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**CHEM 50478 SYNTHESIS OF ORGANIC LIQUID CRYSTALS 3 Credit Hours**

(Slashed with CHEM 40478 and CHEM 70478) Synthesis of organic thermotropic liquid crystals including nematic, smectic and discotic variants. Evaluation of the phase types using polarizing microscopy and DSC. Brief introduction into their use in display devices.

**Prerequisite:** CHEM 30482; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CHEM 50555 PHYSICAL CHEMISTRY I 3 Credit Hours**

(Slashed with CHEM 40555 and CHEM 70555) Fundamental concepts of physical chemistry, with example problems chosen emphasizing application in chemistry and the biological sciences.

**Prerequisite:** Graduate standing in Chemistry.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CHEM 50556 PHYSICAL CHEMISTRY II 3 Credit Hours**

(Slashed with CHEM 40556 and CHEM 70556) A continuation of CHEM 50555. Areas covered are chemical kinetics, quantum chemistry and the solid state.

**Prerequisite:** CHEM 50555 or PHY 45301; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CHEM 50557 PHYSICAL CHEMISTRY LABORATORY 2 Credit Hours**

(Slashed with CHEM 40557 and CHEM 70557) Experiments in numerous areas of physical chemistry, including the interpretation and reporting of obtained experimental data, correlation of results with theory and an introduction to the computer treatment of data.

**Prerequisite:** Graduate standing.

**Pre/corequisite:** CHEM 50555 and CHEM 50556.

**Schedule Type:** Laboratory

**Contact Hours:** 4 lab

**Grade Mode:** Standard Letter

**CHEM 50559 NANOMATERIALS 3 Credit Hours**

(Slashed with CHEM 40559 and CHEM 70559). Fundamental aspects of nanomaterials ranging from nanoparticles to three-dimensional (3D) nanostructures emphasizing their synthesis, chemistry and applications.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CHEM 50566 PRINCIPLES AND APPLICATIONS IN PHYSICAL CHEMISTRY 2 Credit Hours**

Survey of key principles and concepts and their application in Physical Chemistry.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**CHEM 50571 SURFACE CHEMISTRY 2 Credit Hours**

(Slashed with CHEM 40571 and CHEM 70571) Treatment of basic principles and concepts in surface and colloid chemistry. Relationship to practical systems emphasized.

**Prerequisite:** CHEM 40555 or 40567; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**CHEM 50795 CURRENT TOPICS IN CHEMICAL EDUCATION 1-3 Credit Hours**

(Repeatable for credit) (Slashed with CHEM 40795) Designed to present recent advances in chemical research, instrumentation and theory to chemistry educators.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 1-3 lecture

**Grade Mode:** Satisfactory/Unsatisfactory

**CHEM 51010 BIOPHOTONICS 3 Credit Hours**

(Slashed with CHEM 41010; Cross-listed with BSCI 41110 and BSCI 51110 and PHY 41010 and PHY 51010) Interdisciplinary overview of the basics of biophotonics; application of biophotonic techniques to probe biological samples. Introduction to the foundations of optics and photonics and how the molecular structure of organic molecules translates into unique photonic properties and targeting in biological cells or tissue. Preparation of fluorescent materials, advanced spectroscopy and cell visualization using regular and confocal fluorescence microscopy.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 1 lecture, 6 lab

**Grade Mode:** Standard Letter

**CHEM 60099 MASTERS CAPSTONE PROJECT 3-6 Credit Hours**

Capstone project in the form of literature reviews or research projects on topics in chemistry, biochemistry, or chemical education.

**Prerequisite:** Graduate standing.

**Schedule Type:** Master's Project

**Contact Hours:** 3-6 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**CHEM 60199 THESIS I 2-6 Credit Hours**

Thesis students must register for a total of 6 hours, 2 to 6 hours in single semester distributed over several semesters if desired.

**Prerequisite:** Graduate standing.

**Schedule Type:** Masters Thesis

**Contact Hours:** 2-6 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**CHEM 60254 BIOMEMBRANES 2 Credit Hours**

(Slashed with CHEM 70254) Biological membranes; composition, structure, dynamics and biogenesis; structure/function of protein mediated membrane transport.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**CHEM 60291 SEMINAR: RECENT DEVELOPMENTS IN BIOCHEMISTRY 1 Credit Hour**

(Repeatable for credit) (Slashed with CHEM 70291) Presentation and discussion of research papers from current biochemistry literature.

Participation by students and faculty.

**Prerequisite:** Graduate standing.

**Schedule Type:** Seminar

**Contact Hours:** 1 other

**Grade Mode:** Standard Letter-IP

**CHEM 60299 THESIS II 2 Credit Hours**

Thesis students must continue registration until all degree requirements are met.

**Prerequisite:** CHEM 60199; and graduate standing.

**Schedule Type:** Masters Thesis

**Contact Hours:** 2 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP



**CHEM 60327 MODERN INORGANIC CHEMISTRY 3 Credit Hours**

(Slashed with CHEM 70327) Synthesis, structure and reactivity of inorganic compounds including transition metal and organometallic complexes.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CHEM 60391 SEMINAR: RECENT DEVELOPMENTS IN INORGANIC CHEMISTRY 1 Credit Hour**

(Repeatable for credit) (Slashed with CHEM 70391) Presentation and discussion of research papers from current inorganic chemistry literature. Participation by students and faculty.

**Prerequisite:** Graduate standing.

**Schedule Type:** Seminar

**Contact Hours:** 1 other

**Grade Mode:** Standard Letter-IP

**CHEM 60472 ADVANCED ORGANIC CHEMISTRY-SYNTHETIC ASPECTS 3 Credit Hours**

(Slashed with CHEM 70472) Disconnection approach to organic synthesis. Modern methods for carbon-carbon bond formation and functional group interconversion, and their application to natural product synthesis.

**Prerequisite:** CHEM 30482; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CHEM 60473 STEREOSELECTIVE ORGANIC SYNTHESIS 3 Credit Hours**

(Slashed with CHEM 70473) Modern methods of asymmetric synthesis; introduction to selected methods for stereoselective N-heterocycle synthesis; application of these methods in natural product synthesis.

**Prerequisite:** CHEM 30482; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CHEM 60541 ADVANCED PHYSICAL CHEMISTRY 3 Credit Hours**

(Slashed with CHEM 70541) Covers basic materials of modern physical chemistry in two broad areas: thermodynamics and introductory quantum mechanics.

**Prerequisite:** CHEM 50556; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CHEM 60591 SEMINAR: RECENT DEVELOPMENTS IN PHYSICAL CHEMISTRY 1 Credit Hour**

(Repeatable for credit) (Slashed with CHEM 70591) Presentation and discussion of research papers from current physical chemistry literature. Participation by students and faculty.

**Prerequisite:** Graduate standing.

**Schedule Type:** Seminar

**Contact Hours:** 1 other

**Grade Mode:** Standard Letter-IP

**CHEM 60691 SEMINAR: RECENT DEVELOPMENTS IN INDUSTRIAL CHEMISTRY 1 Credit Hour**

Presentation and discussion of research papers from the current industrial chemistry field. Participation by students and faculty.

**Prerequisite:** Graduate standing.

**Schedule Type:** Seminar

**Contact Hours:** 1 other

**Grade Mode:** Standard Letter

**CHEM 60894 COLLEGE TEACHING OF CHEMISTRY 1 Credit Hour**

(Repeatable for credit) (Slashed with CHEM 70894) Experience in teaching of chemistry at college level.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 1 lecture

**Grade Mode:** Satisfactory/Unsatisfactory

**CHEM 60898 MASTERS RESEARCH 1-15 Credit Hours**

(Repeatable for credit) Research for master's students. Credits earned may be applied toward degree if department approves.

**Prerequisite:** Graduate standing.

**Schedule Type:** Research

**Contact Hours:** 1-15 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**CHEM 61191 SEMINAR: PROBLEM SOLVING IN ANALYTICAL CHEMISTRY 1 Credit Hour**

(Repeatable for credit) (Slashed with CHEM 71191) Problem solving in analytical chemistry, including chemical analysis methods, instrumentation, sample preparation, and data handling.

**Prerequisite:** Graduate standing.

**Schedule Type:** Seminar

**Contact Hours:** 1 other

**Grade Mode:** Standard Letter-IP

**CHEM 61491 SEMINAR: PROBLEM SOLVING IN ORGANIC CHEMISTRY 1 Credit Hour**

(Repeatable for credit) (Slashed with CHEM 71491) Practical experience in the solving of current problems of synthesis, spectroscopy, and mechanism in organic chemistry.

**Prerequisite:** Graduate standing.

**Schedule Type:** Seminar

**Contact Hours:** 1 other

**Grade Mode:** Standard Letter-IP

**CHEM 62191 SEMINAR: ANALYTICAL CHEMISTRY 1 Credit Hour**

(Repeatable for credit) (Slashed with CHEM 72191) Student and faculty presentations on topics in analytical chemistry.

**Prerequisite:** Graduate standing.

**Schedule Type:** Seminar

**Contact Hours:** 1 other

**Grade Mode:** Standard Letter-IP

**CHEM 62291 SEMINAR: BIOCHEMISTRY 1 Credit Hour**

(Repeatable for credit) (Slashed with CHEM 72291) Student and faculty presentations on topics in biochemistry

**Prerequisite:** Graduate standing.

**Schedule Type:** Seminar

**Contact Hours:** 1 other

**Grade Mode:** Standard Letter-IP

**CHEM 62391 SEMINAR: INORGANIC CHEMISTRY 1 Credit Hour**  
(Repeatable for credit) (Slashed with CHEM 72391) Student and faculty presentations on topics in inorganic chemistry.

**Prerequisite:** Graduate standing.

**Schedule Type:** Seminar

**Contact Hours:** 1 other

**Grade Mode:** Standard Letter-IP

**CHEM 62491 SEMINAR: ORGANIC CHEMISTRY 1 Credit Hour**  
(Repeatable for credit) (Slashed with CHEM 72491) Presentation of topics from the recent literature on aspects of organic chemistry including synthesis, spectroscopy, mechanism, and materials properties.

**Prerequisite:** Graduate standing.

**Schedule Type:** Seminar

**Contact Hours:** 1 other

**Grade Mode:** Standard Letter-IP

**CHEM 62591 SEMINAR: PHYSICAL CHEMISTRY 1 Credit Hour**  
(Repeatable for credit) (Slashed with CHEM 72591) Student and faculty presentations on topics in physical chemistry.

**Prerequisite:** Graduate standing.

**Schedule Type:** Seminar

**Contact Hours:** 1 other

**Grade Mode:** Standard Letter-IP

**CHEM 62691 SEMINAR: INDUSTRIAL CHEMISTRY 1 Credit Hour**  
Presentation of current research in industrial chemistry. Participation by students and faculty.

**Prerequisite:** Graduate standing.

**Schedule Type:** Seminar

**Contact Hours:** 1 other

**Grade Mode:** Standard Letter

**CHEM 62791 SEMINAR: CHEMICAL EDUCATION 1 Credit Hour**  
Presentation of current research in chemical education. Participation by students and faculty.

**Prerequisite:** Graduate standing.

**Schedule Type:** Seminar

**Contact Hours:** 1 other

**Grade Mode:** Standard Letter

**CHEM 70093 VARIABLE TITLE WORKSHOP IN CHEMISTRY 1-6 Credit Hours**

(Repeatable for credit) Variable title workshop in Chemistry.

**Prerequisite:** Doctoral standing; and special approval.

**Schedule Type:** Workshop

**Contact Hours:** 1-6 other

**Grade Mode:** Satisfactory/Unsatisfactory

**CHEM 70109 BIOANALYTICAL CHEMISTRY 3 Credit Hours**  
(Slashed with CHEM 40109 and CHEM 50109) Covers traditional as well as newly emerging topics in the field of bioanalytical chemistry. The course will provide an overview of the fundamental biological targets for the bioanalytical assays, such as lipids, peptides, proteins, nucleic acids, and cells. The course will then briefly introduce traditional tools, such as chromatography, electrophoresis, mass spectrometry, fluorescence techniques, immunoassays, and biosensors. Finally, the course will discuss approaches most recently developed in the field, which include lab-on-a-chip and single molecule techniques.

**Prerequisite:** CHEM 30105; and doctoral standing; and special approval.

**Corequisite:** CHEM 30284 or CHEM 40245 or CHEM 40261.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CHEM 70110 ANALYTICAL MASS SPECTROMETRY 3 Credit Hours**  
(Slashed with CHEM 40110 and CHEM 50110) Survey of modern techniques in and associated with mass spectrometry, including historical perspectives, strengths and weaknesses, detection and quantification of analytes, ionization source and mass analyzer design, as well as construction of associated technologies including vacuum systems, ion detection, and ion optics. Ion formation processes will also be discussed.

**Prerequisite:** Doctoral standing in Chemistry.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CHEM 70113 CHEMICAL SEPARATIONS 3 Credit Hours**  
(Slashed with CHEM 40113 and CHEM 50113) Theory, instrumentation and applications of chemical separations for chemical analysis. Emphasis on gas and liquid chromatography.

**Prerequisite:** CHEM 30106; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CHEM 70116 SPECTROCHEMICAL METHODS OF ANALYSIS 3 Credit Hours**

(Slashed with CHEM 40116 and CHEM 50116) Presented material is designed to familiarize students with fundamental concepts in spectrochemical analyses, mainly in the form of optical spectroscopic methods. Design and construction of spectroscopic instruments, detection and quantification of analytes, interaction of electromagnetic radiation with molecules, as well as collection and processing of analytical signals will be presented.

**Prerequisite:** Doctoral standing in Chemistry.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CHEM 70195 ADVANCED TOPICS, ANALYTICAL 1-3 Credit Hours**  
(Repeatable for credit) Advanced topics in analytical chemistry.

**Prerequisite:** Doctoral standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 1-3 lecture

**Grade Mode:** Standard Letter

**CHEM 70248 ADVANCED BIOLOGICAL CHEMISTRY 3 Credit Hours**  
(Slashed with CHEM 40248 and CHEM 50248) Supra-molecular structures of DNA, advanced topics in DNA replication, recombination, damage and repair; gene transcription, Pre-RNA processing, mRNA translation, post-translational modifications on proteins; protein folding, protein splicing, sorting of proteins in different parts of the cells, and protein turn-over; cell signaling and cell cycle; and genetic diseases and their therapies.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CHEM 70254 BIOMEMBRANES 2 Credit Hours**  
(Slashed with CHEM 60254) Biological membranes; composition, structure, dynamics and biogenesis; structure/function of protein mediated membrane transport.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**CHEM 70261 PRINCIPLES OF BIOCHEMISTRY I 3 Credit Hours**

(Slashed with CHEM 40261 and CHEM 50261) Introduction to biochemical principles regarding the structure and function of biomolecules including water, amino acids, proteins, carbohydrates and lipids; emphases on enzymes, membranes and bioenergetics.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CHEM 70262 PRINCIPLES OF BIOCHEMISTRY II 3 Credit Hours**

(Slashed with CHEM 40262 and CHEM 50262) Aspects of biochemistry focusing on information, chemical and energy flow, including: integration of metabolic pathways; DNA replication, repair, recombination and modification; transcription and translation; signal transduction, and post-translational modification.

**Prerequisite:** CHEM 50261 or CHEM 70261; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CHEM 70263 PHYSICAL BIOCHEMISTRY 3 Credit Hours**

(Slashed with CHEM 40263 and CHEM 50263) Principles and techniques of physical chemistry used in studying biomacromolecules and biological systems. Topics covered are thermodynamics, spectroscopy, structure and properties of biological molecules.

**Prerequisite:** Doctoral standing in Chemistry.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CHEM 70264 MEDICAL BIOCHEMISTRY 3 Credit Hours**

(Slashed with CHEM 40624 and CHEM 50624) The course provides an in-depth exploration of the biochemical basis for disease and its application to clinical medicine with an emphasis on new discoveries and other advances.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CHEM 70291 SEMINAR:RECENT DEVELOPMENTS IN BIOCHEMISTRY 1 Credit Hour**

(Repeatable for credit) Presentation and discussion of research papers from current biochemistry literature. Participation by students and faculty.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Seminar

**Contact Hours:** 1 other

**Grade Mode:** Standard Letter-IP

**CHEM 70295 ADVANCED TOPICS IN BIOCHEMISTRY 1-3 Credit Hours**

(Repeatable for credit) Advanced topics in biochemistry.

**Prerequisite:** Doctoral standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 1-3 lecture

**Grade Mode:** Standard Letter

**CHEM 70327 MODERN INORGANIC CHEMISTRY 3 Credit Hours**

(Slashed with CHEM 60327) Synthesis, structure and reactivity of inorganic compounds including transition metal and organometallic complexes.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CHEM 70352 INORGANIC MATERIALS CHEMISTRY 3 Credit Hours**

(Slashed with CHEM 40352 and CHEM 50352) Broad survey of the synthesis, properties, characterization and applications of inorganic materials.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CHEM 70365 BIOLOGICAL INORGANIC CHEMISTRY 3 Credit Hours**

(Slashed with CHEM 40365 and CHEM 50365) Physical methods, s-block metals, metal-induced stabilization, electron transfer proteins, oxidoreductases, hydrolases and lyases, metal transport and storage, nitrogenases, group-atom transfer and metals in medicine.

**Prerequisite:** CHEM 30301; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CHEM 70391 SEMINAR:RECENT DEVELOPMENTS IN INORGANIC CHEMISTRY 1 Credit Hour**

(Repeatable for credit) (Slashed with CHEM 60391) Presentation and discussion of research papers from current inorganic chemistry literature. Participation by students and faculty.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Seminar

**Contact Hours:** 1 other

**Grade Mode:** Standard Letter-IP

**CHEM 70395 ADVANCED TOPICS, INORGANIC 1-3 Credit Hours**

(Repeatable for credit) Advanced topics in inorganic chemistry.

**Prerequisite:** Doctoral standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 1-3 lecture

**Grade Mode:** Standard Letter

**CHEM 70451 ORGANIC MATERIALS CHEMISTRY 3 Credit Hours**

(Slashed with CHEM 40451 and CHEM 50451) Broad survey of the synthesis, properties characterization and applications of organic and polymeric materials.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CHEM 70472 ADVANCED ORGANIC CHEMISTRY-SYNTHETIC ASPECTS 3 Credit Hours**

(Slashed with CHEM 60472) Disconnection approach to organic synthesis. Modern methods for carbon-carbon bond formation and functional group interconversion, and their application to natural product synthesis. Doctoral standing.

**Prerequisite:** CHEM 30482.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CHEM 70473 STEREOSELECTIVE ORGANIC SYNTHESIS 3 Credit Hours**

(Slashed with CHEM 60473) Modern methods of asymmetric synthesis; introduction to selected methods for stereoselective N-heterocycle synthesis; application of these methods in natural product synthesis.

**Prerequisite:** CHEM 30482; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CHEM 70476 SPECTROSCOPIC IDENTIFICATION OF ORGANIC COMPOUNDS 2 Credit Hours**

(Slashed with CHEM 40476 and CHEM 50476) Strategies for structural elucidation of organic compounds from analysis of infrared, proton and carbon NMR, and mass spectrometric data through lectures and problem solving.

**Prerequisite:** CHEM 30482; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**CHEM 70478 SYNTHESIS OF ORGANIC LIQUID CRYSTALS 3 Credit Hours**

(Slashed with CHEM 40478 and CHEM 70478) Synthesis of organic thermotropic liquid crystals including nematic, smectic and discotic variants. Evaluation of the phase types using polarizing microscopy and DSC. Brief introduction into their use in display devices.

**Prerequisite:** CHEM 30482; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CHEM 70495 ADVANCED TOPICS, ORGANIC 1-3 Credit Hours**

(Repeatable for credit) Advanced topics in organic chemistry.

**Prerequisite:** Permission.

**Schedule Type:** Lecture

**Contact Hours:** 1-3 lecture

**Grade Mode:** Standard Letter

**CHEM 70541 ADVANCED PHYSICAL CHEMISTRY 3 Credit Hours**

(Slashed with CHEM 60541) Covers basic materials of modern physical chemistry in two broad areas: thermodynamics and introductory quantum mechanics.

**Prerequisite:** CHEM 50556; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CHEM 70555 PHYSICAL CHEMISTRY I 3 Credit Hours**

(Slashed with CHEM 40555 and CHEM 50555) Fundamental concepts of physical chemistry, with example problems chosen emphasizing applications in chemistry and the biological sciences.

**Prerequisite:** Doctoral standing in Chemistry.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CHEM 70556 PHYSICAL CHEMISTRY II 3 Credit Hours**

(Slashed with CHEM 40556 and CHEM 50556) Fundamental concepts of physical chemistry of current interest. Included are biological and medical aspects of physical chemistry. Graduate credit given to nonchemistry and nonphysics majors and with permission to certain chemistry majors.

**Prerequisite:** CHEM 50555 or 70555; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CHEM 70557 PHYSICAL CHEMISTRY LABORATORY 2 Credit Hours**

(Slashed with CHEM 40557 and CHEM 50557) Experiments in numerous areas of physical chemistry, including the interpretation and reporting of obtained experimental data correlation of results with theory and an introduction to the computer treatment of data.

**Prerequisite:** Doctoral standing.

**Pre/corequisite:** CHEM 70555 and CHEM 70556.

**Schedule Type:** Laboratory

**Contact Hours:** 4 lab

**Grade Mode:** Standard Letter

**CHEM 70559 NANOMATERIALS 3 Credit Hours**

(Slashed with CHEM 40559 and CHEM 50559) Fundamental aspects of nanomaterials ranging from nanoparticles to three-dimensional (3D) nanostructures emphasizing their synthesis, chemistry and applications.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CHEM 70571 SURFACE CHEMISTRY 2 Credit Hours**

(Slashed with CHEM 40571 and CHEM 50571) Treatment of basic principles and concepts in surface and colloid chemistry. Relationship to practical systems emphasized.

**Prerequisite:** CHEM 40555 or CHEM 40567; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**CHEM 70591 SEMINAR: RECENT DEVELOPMENTS IN PHYSICAL CHEMISTRY 1 Credit Hour**

(Repeatable for credit) (Slashed with CHEM 60591) Presentation and discussion of research papers from current physical chemistry literature. Participation by students and faculty.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Seminar

**Contact Hours:** 1 other

**Grade Mode:** Standard Letter-IP

**CHEM 70595 ADVANCED TOPICS, PHYSICAL 1-3 Credit Hours**

(Repeatable for credit) Advanced topics in physical chemistry.

**Prerequisite:** Doctoral standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 1-3 lecture

**Grade Mode:** Standard Letter

**CHEM 70894 COLLEGE TEACHING OF CHEMISTRY 1 Credit Hour**

(Repeatable for credit) (Slashed with CHEM 60894) Experience in teaching of chemistry at college level.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 1 lecture

**Grade Mode:** Satisfactory/Unsatisfactory

**CHEM 71191 SEMINAR:PROBLEM SOLVING IN ANALYTICAL CHEMISTRY 1 Credit Hour**

(Repeatable for credit) (Slashed with CHEM 61191) Problem solving in analytical chemistry, including chemical analysis methods, instrumentation, sample preparation, and data handling.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Seminar

**Contact Hours:** 1 other

**Grade Mode:** Standard Letter-IP

**CHEM 71491 SEMINAR:PROBLEM SOLVING IN ORGANIC CHEMISTRY 1 Credit Hour**

(Repeatable for credit) (Slashed with CHEM 61491) Practical experience in the solving of current problems of synthesis, spectroscopy, and mechanism in organic chemistry.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Seminar

**Contact Hours:** 1 other

**Grade Mode:** Standard Letter-IP

**CHEM 72191 SEMINAR: ANALYTICAL CHEMISTRY 1 Credit Hour**

(Repeatable for credit) (Slashed with CHEM 62191) Student and faculty presentations on topics in analytical chemistry.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Seminar

**Contact Hours:** 1 other

**Grade Mode:** Standard Letter-IP

**CHEM 72291 SEMINAR: BIOCHEMISTRY 1 Credit Hour**

(Repeatable for credit) (Slashed with CHEM 62291) Student and faculty presentations on topics in biochemistry.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Seminar

**Contact Hours:** 1 other

**Grade Mode:** Standard Letter-IP

**CHEM 72391 SEMINAR:INORGANIC CHEMISTRY 1 Credit Hour**

(Repeatable for credit) (Slashed with CHEM 62391) Student and faculty presentations on topics in inorganic chemistry.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Seminar

**Contact Hours:** 1 other

**Grade Mode:** Standard Letter-IP

**CHEM 72491 SEMINAR:ORGANIC CHEMISTRY 1 Credit Hour**

(Repeatable for credit) (Slashed with CHEM 62491) Presentation of topics from the recent literature on aspects of organic chemistry including synthesis, spectroscopy, mechanism, and materials properties.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Seminar

**Contact Hours:** 1 other

**Grade Mode:** Standard Letter-IP

**CHEM 72591 SEMINAR:PHYSICAL CHEMISTRY 1 Credit Hour**

(Repeatable for credit) (Slashed with CHEM 62591) Student and faculty presentations on topics in physical chemistry.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Seminar

**Contact Hours:** 1 other

**Grade Mode:** Standard Letter-IP

**CHEM 80199 DISSERTATION I 15 Credit Hours**

(Repeatable for credit) Doctoral dissertation, for which registration in two semesters is required, first of which will be semester in which dissertation work is begun and continuing until the completion of 30 hours.

**Prerequisite:** Doctoral standing; and special approval.

**Schedule Type:** Dissertation

**Contact Hours:** 15 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**CHEM 80299 DISSERTATION II 15 Credit Hours**

(Repeatable for credit) Continuing registration required of doctoral students who have completed the initial 30 hours of dissertation and continuing until all degree requirements are met.

**Prerequisite:** CHEM 80199; and doctoral standing.

**Schedule Type:** Dissertation

**Contact Hours:** 15 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**CHEM 80898 RESEARCH 1-15 Credit Hours**

(Repeatable for credit) Research for doctoral students. Credits earned may be applied toward degree if department approves.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Research

**Contact Hours:** 1-15 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

## Chinese (CHIN)

**CHIN 15101 ELEMENTARY CHINESE I 4 Credit Hours**

An introduction to Mandarin Chinese in the context of modern Chinese-speaking cultures.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 4 lecture

**Grade Mode:** Standard Letter

**Attributes:** TAG Foreign Language

**CHIN 15102 ELEMENTARY CHINESE II 4 Credit Hours**

A continuation of the introduction to Mandarin Chinese in the context of modern Chinese-speaking cultures.

**Prerequisite:** CHIN 15101.

**Schedule Type:** Lecture

**Contact Hours:** 4 lecture

**Grade Mode:** Standard Letter

**CHIN 25201 INTERMEDIATE CHINESE I 4 Credit Hours**

Continued development of speaking, listening, reading and writing skills using a variety of cultural materials.

**Prerequisite:** CHIN 15102.

**Schedule Type:** Lecture

**Contact Hours:** 4 lecture

**Grade Mode:** Standard Letter

**CHIN 25202 INTERMEDIATE CHINESE II 4 Credit Hours**

Continuation of CHIN 25201.

**Prerequisite:** CHIN 25201.

**Schedule Type:** Lecture

**Contact Hours:** 4 lecture

**Grade Mode:** Standard Letter

**Attributes:** TAG Foreign Language



**CHIN 25421 CHINESE CULTURE 3 Credit Hours**

This course will guide students to explore the foundations of Chinese civilization and the dimensions of Chinese culture. The course will focus on providing students with a deeper knowledge of Chinese culture and better understanding of contemporary China. This course is a basic introduction to Chinese culture. It does not presume prior knowledge of China or the Chinese language. This course is taught in English and is open to students in any program.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CHIN 30095 SPECIAL TOPICS 3 Credit Hours**

(Repeatable for credit) Topic to be announced in schedule of classes.

**Prerequisite:** Permission.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CHIN 35211 INTENSIVE CHINESE CONVERSATION 3 Credit Hours**

This course increases students' knowledge of Chinese vocabulary and sentence structure; emphasis will be on developing fluency and oral proficiency in Chinese.

**Prerequisite:** CHIN 25202.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CHIN 35221 CHINESE IN THE REAL WORLD 3 Credit Hours**

This course focuses on how the Chinese language varies by social and cultural contexts. The instructor will utilize different socially and culturally relevant topics to help students master the structures, vocabulary, and idiomatic expressions commonly used in formal and informal situations. Students will be systematically exposed to the distinguishing features of written and spoken Chinese in terms of language form, function, and communication.

**Prerequisite:** CHIN 25202.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CHIN 45096 INDIVIDUAL INVESTIGATION 1-3 Credit Hours**

(Repeatable for a total of 6 credit hours) Individual study supervised by a faculty member on an approved topic dealing with Chinese language and/or culture.

**Prerequisite:** CHIN 25201.

**Schedule Type:** Individual Investigation

**Contact Hours:** 1-3 other

**Grade Mode:** Standard Letter-IP

**CHIN 45302 BUSINESS CHINESE 3 Credit Hours**

Study of the business protocol, language functions, texts and vocabulary associated with travel and business in the Chinese-speaking world.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CHIN 45322 CHINESE FICTION 3 Credit Hours**

This course emphasizes speaking and reading skills in Chinese through selected stories and anecdotes including sayings from classical philosophers, folk tales, legends, and great works of literature.

**Prerequisite:** CHIN 25202.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CHIN 45323 CHINESE COMPOSITION 3 Credit Hours**

This course focuses on studying modern and classical forms of Chinese literature written by acknowledged masters. Through studying these works, students improve their understanding of Chinese literature, open avenues of thought, broaden their vocabulary, master basic rules and techniques of writing, and develop the ability to write with eloquence and skill.

**Prerequisite:** CHIN 25202.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

## Classics (CLAS)

**CLAS 21201 ENGLISH WORDS FROM CLASSICAL ELEMENTS 3 Credit Hours**

Building of English vocabulary through study of basic roots from Latin and Greek; prefixes, suffixes, rules for accent and pronunciation; specialized scientific and legal terminology.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CLAS 21404 THE GREEK ACHIEVEMENT (DIVG) (KHUM) 3 Credit Hours**

A survey of the cultural achievements of the ancient Greeks as manifested in their poetry, philosophy, history and art from the Homeric period through the New Testament.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Diversity Global, Kent Core Humanities, Transfer Module Humanities

**CLAS 21405 THE ROMAN ACHIEVEMENT (DIVG) (KHUM) 3 Credit Hours**

A survey of the cultural achievements of the ancient Romans as manifested in their literature and art from the Etruscans through the Christians.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Diversity Global, Kent Core Humanities, Transfer Module Humanities

**CLAS 21406 SPORT AND ANCIENT DAILY LIFE 3 Credit Hours**

Investigation of the development of combat sports in the ancient world and the culture in which they evolved. Also emphasized is the development from amateur athletics in the Greek world to the Roman professional gladiators and charioteers.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CLAS 40793 VARIABLE TITLE WORKSHOP IN CLASSICS 1-6 Credit Hours**

(Repeatable for credit)(Slashed with CLAS 50793) Workshops individually designed to provide instruction and training in specific areas of classical studies.

**Prerequisite:** Special approval.

**Schedule Type:** Workshop

**Contact Hours:** 1-6 other

**Grade Mode:** Satisfactory/Unsatisfactory

**CLAS 41005 HISTORY OF ANCIENT GREECE 3 Credit Hours**

(Slashed with CLAS 51005) Survey of Greek history from the Bronze Age to the rise of Macedonia and Alexander the Great.

**Prerequisite:** Junior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CLAS 41006 ROMAN HISTORY 3 Credit Hours**

(Cross-listed with HIST 41006) (Slashed with CLAS 51006, HIST 51006 and HIST 71006) A survey of Roman history from its beginnings to the fall of the Roman Empire.

**Prerequisite:** Junior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CLAS 41089 CLASSICS INTERNATIONAL EXPERIENCE 1-4 Credit Hours**

(Slashed with CLAS 51089) A Kent State faculty-led study abroad experience that involves experiential activities and site visits outside the United States. May include, for example, participation in an archaeological dig or tour of sites in Italy and Greece. Course may have pre- or post-travel classroom study. Course activities may include classroom study, research, fieldwork, internships and service-learning.

**Prerequisite:** Special approval.

**Schedule Type:** Lecture, Practical Experience

**Contact Hours:** 1-4 lecture

**Grade Mode:** Standard Letter

**CLAS 41092 FIELD EXPERIENCE IN CLASSICS (ELR) 1-4 Credit Hours**

(Repeatable for a maximum of 7 credit hours)(Slashed with CLAS 51092) Travel-based study/field experience at a site or sites away from Kent State University under the supervision of members of the classics faculty. The primary purpose is the observation and study of artifacts, monuments and sites that pertain to classical antiquity. Examples of travel/study include field trips to museums, study trips to Rome or other cities and participation in an archaeological field school.

**Prerequisite:** None.

**Schedule Type:** Field Experience

**Contact Hours:** 1-4 other

**Grade Mode:** Standard Letter

**Attributes:** Experiential Learning Requirement

**CLAS 41095 SPECIAL TOPICS IN CLASSICS 3 Credit Hours**

(Repeatable for a maximum of 6 credit hours)(Slashed with CLAS 51095) Topic varies per course offering and listed in the schedule of classes.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CLAS 41096 INDIVIDUAL INVESTIGATION 1-3 Credit Hours**

(Repeatable for a total of 9 credit hours) Investigation of problems in archaeology, mythology and ancient comparative literature.

**Prerequisite:** Special approval.

**Schedule Type:** Individual Investigation

**Contact Hours:** 1-3 other

**Grade Mode:** Standard Letter-IP

**CLAS 41097 COLLOQUIUM IN CLASSICS 3 Credit Hours**

(Repeatable for credit)(Slashed with CLAS 51097) Detailed study of an aspect of antiquity that engages issues of current interest, for example women in antiquity, ancient Christianity, multiculturalism in antiquity.

**Prerequisite:** None.

**Schedule Type:** Colloquium

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**CLAS 41301 CLASSICAL MYTHOLOGY 3 Credit Hours**

(Slashed with CLAS 51301) Assessment of major streams of ancient mythology stressing broad humanistic concepts of religion, philosophy and literature.

**Prerequisite:** Sophomore standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CLAS 41304 LITERATURE OF THE ROMAN WORLD (ELR) (WIC) 3 Credit Hours**

(Slashed with CLAS 51304) Major works of Latin literature, studied in their historical context by genre; knowledge of Latin not required. Authors read include Plautus, Terence, Lucretius, Cicero, Catullus, Vergil, Horace, Petronius, Seneca, Suetonius, Tacitus and Juvenal.

**Prerequisite:** Junior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Experiential Learning Requirement, Writing Intensive Course

**CLAS 41305 CLASSICAL LITERARY STUDIES 3 Credit Hours**

(Repeatable for a maximum of 12 credit hours) (Slashed with CLAS 51305) Study of a particular literary genre. Topics are individually designed to provide instruction and training of a specific genre of Greek or Roman literature.

**Prerequisite:** Junior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CLAS 41401 GREEK ARCHAEOLOGY AND ART 3 Credit Hours**

(Cross-listed with ARTH 42031)(Slashed with CLAS 51401 and ARTH 52031) Introduction to archaeology of the Greek world with emphasis on recent discoveries and their impact on the study of Greek art, architecture and sculpture through the Hellenistic period.

**Prerequisite:** Junior or senior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CLAS 41402 ROMAN ARCHAEOLOGY AND ART 3 Credit Hours**

(Cross-listed with ARTH 42032)(Slashed with CLAS 51402 and ARTH 52032) Introduction to archaeology of the Roman world with emphasis on recent discoveries and their impact on the study of Etruscan and Roman art, architecture and sculpture through the Imperial period.

**Prerequisite:** Junior or senior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CLAS 41404 ANCIENT CHRISTIANITIES 3 Credit Hours**

In-depth examination of the formative period of Christianity and the diverse "Christianities" during the first 100 years after the death of Jesus of Nazareth, including the Judaic context for the birth of Christianity, diversity among the earliest Christian communities, and the process by which the New Testament canon was formed. Study of a variety of texts produced by the early church.

**Prerequisite:** Junior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CLAS 41503 LITERATURE OF THE ANCIENT GREEKS (ELR) (WIC) 3 Credit Hours**

(Slashed with CLAS 51503) Major works of Greek literature, studied in their historical context and by genre. Knowledge of Greek is not required.

**Prerequisite:** Junior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Experiential Learning Requirement, Writing Intensive Course

**CLAS 50793 VARIABLE TITLE WORKSHOP IN CLASSICS 1-6 Credit Hours**

(Repeatable for credit)(Slashed with CLAS 40793) Workshops individually designed to provide instruction and training in specific areas of classical studies.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Workshop

**Contact Hours:** 1-6 other

**Grade Mode:** Satisfactory/Unsatisfactory

**CLAS 51005 HISTORY OF ANCIENT GREECE 3 Credit Hours**

(Slashed with CLAS 41005) Survey of Greek history from the Bronze Age to the rise of Macedonia and Alexander the Great.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CLAS 51006 ROMAN HISTORY 3 Credit Hours**

(Cross-listed with HIST 51006) (Slashed with CLAS 41006, HIST 41006 and HIST 71006) A survey of Roman history from its beginnings to the fall of the Roman Empire.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CLAS 51089 CLASSICS INTERNATIONAL EXPERIENCE 1-4 Credit Hours**

(Slashed CLAS 51089) A Kent State faculty-led study abroad experience that involves experiential activities and site visits outside the United States. International experience may include, for example, participation in an archaeological dig or tour of sites in Italy or Greece. International experience courses may have pre-and post-travel classroom study. Course activities include, but are not limited to, classroom study, research, fieldwork, internships and service-learning.

**Prerequisite:** Graduate Standing; and special approval.

**Schedule Type:** Lecture, Practical Experience

**Contact Hours:** 1-4 lecture

**Grade Mode:** Standard Letter

**CLAS 51092 FIELD EXPERIENCE IN CLASSICS 1-4 Credit Hours**

(Repeatable for a maximum of 7 credit hours)(Slashed with CLAS 41092) Travel-based study/field experience at a site or sites away from Kent State University under the supervision of members of the classics faculty. The primary purpose is the observation and study of artifacts, monuments and sites that pertain to classical antiquity. Examples of travel/study include field trips to museums, study trips to Rome or other cities and participation in an archaeological field school.

**Prerequisite:** Graduate standing.

**Schedule Type:** Field Experience

**Contact Hours:** 1-4 other

**Grade Mode:** Standard Letter

**CLAS 51095 SPECIAL TOPICS IN CLASSICS 3 Credit Hours**

(Repeatable for a maximum of 6 credit hours)(Slashed with CLAS 51095) Topic varies per course offering and listed in the schedule of classes.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CLAS 51097 COLLOQUIUM IN CLASSICS 3 Credit Hours**

(Repeatable for credit) (Slashed with CLAS 41097) Detailed study of an aspect of antiquity that engages issues of current interest, for example women in antiquity, ancient Christianity, multiculturalism in antiquity.

**Prerequisite:** Graduate standing.

**Schedule Type:** Colloquium

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**CLAS 51301 CLASSICAL MYTHOLOGY 3 Credit Hours**

(Slashed with CLAS 41301) Assessment of major streams of ancient mythology stressing broad humanistic concepts of religion, philosophy and literature.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CLAS 51304 LITERATURE OF THE ROMAN WORLD 3 Credit Hours**

(Slashed with CLAS 41304) Major works of Latin literature, studied in their historical context by genre; knowledge of Latin not required. Authors read include Plautus, Terence, Lucretius, Cicero, Catullus, Vergil, Horace, Petronius, Seneca and Juvenal.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CLAS 51305 CLASSICAL LITERARY STUDIES 3 Credit Hours**  
(Repeatable for a maximum of 12 credit hours) (Slashed with CLAS 41305) Study of a particular literary genre. Topics are individually designed to provide instruction and training of a specific genre of Greek or Roman literature.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CLAS 51401 GREEK ARCHAEOLOGY AND ART 3 Credit Hours**  
(Slashed with CLAS 41401) (Cross-listed with ARTH 42031 and ARTH 52031) Introduction to archaeology of the Greek world with emphasis on recent discoveries and their impact on the study of Greek art, architecture and sculpture through the Hellenistic period.

**Prerequisite:** Graduate standing.

**Schedule Type:** Laboratory, Lecture, Seminar

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CLAS 51402 ROMAN ARCHAEOLOGY AND ART 3 Credit Hours**  
(Cross-listed with ARTH 52032)(Slashed with CLAS 41402 and ARTH 42032) Introduction to archaeology of the Roman world with emphasis on recent discoveries and their impact on the study of Etruscan and Roman art, architecture and sculpture through the Imperial period.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CLAS 51503 LITERATURE OF THE ANCIENT GREEKS 3 Credit Hours**  
(Slashed with CLAS 41503) Major works of Greek literature, studied in their historical context and by genre. Knowledge of Greek is not required.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CLAS 61404 ANCIENT CHRISTIANITIES 3 Credit Hours**  
In-depth examination of the formative period of Christianity and the diverse "Christianities" during the first 100 years after the death of Jesus of Nazareth, including the Judaic context for the birth of Christianity, diversity among the earliest Christian communities, and the process by which the New Testament canon was formed. Study of a variety of texts produced by the early church.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CLAS 66398 RESEARCH 1-6 Credit Hours**  
(Repeatable for maximum 15 credit hours) Research, final project or individual investigation for master's level students. Credits earned apply toward degree requirements with department approval.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Research

**Contact Hours:** 3-18 other

**Grade Mode:** Standard Letter-IP

## Clinical Education (CLI)

**CLI 80200 STANDARDIZED PATIENTS ROTATION 1 Credit Hour**  
Offers second year students the opportunity to interview standardized patients and receive feedback on their patient interviewing and history recording skills which prepares them to function competently in a doctor/patient encounter. Some students find that interviewing patients comes naturally, while for others it is more a learned skill. The standardized patients are actors who have been coached to simulate actual patients so accurately that the simulation could possibly fool even a skilled clinician.

**Prerequisite:** Student must be enrolled in the Podiatric Medicine program.

**Schedule Type:** Clinical Laboratory

**Contact Hours:** 4 other

**Grade Mode:** Satisfactory/Unsatisfactory

**CLI 80310 PODIATRIC SURGERY ROTATION 4 Credit Hours**  
Stresses complete pre-operative and post-operative management of the surgical patient. Many foot deformities can be corrected with surgery. Work up for the purposes of establishing proper diagnosis, selection of appropriate surgical procedure and designing a proper follow-up plan are necessary components of successful surgical outcome. Proper post-operative patient care as well as early recognition of potential surgical complications are stressed. These are essential to a successful surgical practice. While the scope of surgery varies greatly with differences in postgraduate training, there exists a basic core of knowledge and various techniques that are consistent with successful surgical outcome. In order to be a successful surgeon, it is imperative that the student master those basic skills that will be utilized through his or her career. This rotation is the foundation upon which surgical careers are built.

**Prerequisite:** Student must be enrolled in the Podiatric Medicine program.

**Schedule Type:** Clinical Laboratory

**Contact Hours:** 16 other

**Grade Mode:** Satisfactory/Unsatisfactory

**CLI 80315 SURGICAL SKILLS WORKSHOP 4 Credit Hours**  
Provides students with the knowledge and hands-on training pertaining to the physical skills that are necessary to perform surgery of the foot and ankle. An effort is made to correlate didactic information learned in the classroom with the rationale behind why many surgical procedures are performed. Adequate demonstration of surgical skills are provided along with practice time and constructive performance feedback.

**Prerequisite:** Student must be enrolled in the Podiatric Medicine program.

**Schedule Type:** Clinical Laboratory

**Contact Hours:** 16 other

**Grade Mode:** Satisfactory/Unsatisfactory

**CLI 80320 RADIOLOGY ROTATION 4 Credit Hours**  
Clinical rotations function by adapting and applying classroom information to real life, "hands-on" situations. A majority of foot complaints necessitate the taking and the reading of radiographs. As specialists of the foot and ankle, podiatrists are in a unique situation in being able to take and interpret radiographs in their own offices. Radiographic analysis is therefore an integral component of podiatric medical education. The Radiology/Medical Imaging rotation focuses on those skills commonly performed by the podiatrist. This includes positioning and developing radiographs along with recognizing the most common pedal pathologies.

**Prerequisite:** Student must be enrolled in the Podiatric Medicine program.

**Schedule Type:** Clinical Laboratory

**Contact Hours:** 16 other

**Grade Mode:** Satisfactory/Unsatisfactory



**CLI 80351 PODIATRIC MEDICINE/BIOMECHANICS (EUCLID) 4 Credit Hours**

Gives students the opportunity to perform primary foot and ankle care under the supervision of the clinical faculty. Students learn basic podiatric palliative care techniques on patients, as well as how to record the findings in the medical record. Students are evaluated on their ability to present the case history, treat the patient and properly record their findings. Students receive clinical conferences on a variety of podiatric medical topics with practical exams in many areas. Two months are spent at the Cleveland Foot and Ankle Institute. One month is spent at the Cleveland VA Hospital. This rotation also provides the student with the opportunity for observation and practice of examination skills required in performing a musculoskeletal and biomechanical evaluation. This involves the development of skill in obtaining a biomechanical/musculoskeletal history, arthrometric evaluation, visual gait analysis and musculoskeletal examination to include muscle strength testing, flexibility and range of motion. The student is also taught, and provided opportunities for practice, various methods of obtaining and evaluating proper biomechanical cast impressions of the feet for the purpose of fabricating orthotic devices. Emphasis in this rotation is on the practice and refinement of clinical evaluation and manual skills.

**Prerequisite:** Student must be enrolled in the Podiatric Medicine program.

**Schedule Type:** Clinical Laboratory

**Contact Hours:** 16 other

**Grade Mode:** Satisfactory/Unsatisfactory

**CLI 80352 PODIATRIC MEDICINE/BIOMECHANICS (INDEPENDENCE) 4 Credit Hours**

Gives students the opportunity to perform primary foot and ankle care under the supervision of the clinical faculty. Students learn basic podiatric palliative care techniques on patients, as well as how to record their findings in the medical record. Students are evaluated on their ability to present the case history, treat the patient and properly record their findings. Students receive clinical conferences on a variety of podiatric medical topics, with practical exams in many areas. Two months are spent at the Cleveland Foot and Ankle Institute. One month is spent at the Cleveland VA Hospital. Also provides the student with the opportunity for observation and practice of examination skills required in performing a musculoskeletal and biomechanical evaluation. This involves the development of skill in obtaining a biomechanical/musculoskeletal history, arthrometric evaluation, visual gait analysis and musculoskeletal examination to include muscle strength testing, flexibility and range of motion. The student is also taught, and provided opportunities for practice, various methods of obtaining and evaluating proper biomechanical cast impressions of the feet for the purpose of fabricating orthotic devices. Emphasis is on the practice and refinement of clinical evaluation and manual skills.

**Prerequisite:** Student must be enrolled in the Podiatric Medicine program.

**Schedule Type:** Clinical Laboratory

**Contact Hours:** 16 other

**Grade Mode:** Satisfactory/Unsatisfactory

**CLI 80365 PRIMARY CARE/VETERANS ADMINISTRATION 4 Credit Hours**

This is a one-month rotation at a veteran's health care facility, which emphasizes the skills necessary to function effectively in government health care facilities.

**Prerequisite:** Student must be enrolled in the Podiatric Medicine program.

**Schedule Type:** Clinical Laboratory

**Contact Hours:** 16 other

**Grade Mode:** Satisfactory/Unsatisfactory

**CLI 80370 HISTORY AND PHYSICAL ROTATION 4 Credit Hours**

The history and physical rotation is a one month experience in one of the several area hospitals, which is designed to provide experience in history and physical examinations. Each rotation site will provide the same core experiences, (based on the goals and objectives), in patient assessment techniques (i.e., history and physical examination), the understanding of disease processes and management strategies. In addition to the core experiences, each rotation site may add additional exposures and training.

**Prerequisite:** Student must be enrolled in the Podiatric Medicine program.

**Schedule Type:** Clinical Laboratory

**Contact Hours:** 16 other

**Grade Mode:** Satisfactory/Unsatisfactory

**CLI 80380 SIMULATED PATIENTS I 4 Credit Hours**

Clinical course offered as part of the core clinical rotations in the third year. Covers general medicine rotation, simulated patients interactions and clinical skills exam exposure.

**Prerequisite:** Student must be enrolled in the Podiatric Medicine program.

**Schedule Type:** Clinical Laboratory

**Contact Hours:** 4 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**CLI 80381 SIMULATED PATIENTS II 4 Credit Hours**

Clinical course offered as part of the core clinical rotations in the third year. Covers general medicine rotation, simulated patients interactions and clinical skills exam exposure.

**Prerequisite:** Student must be enrolled in the Podiatric Medicine program.

**Schedule Type:** Clinical Laboratory

**Contact Hours:** 4 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**CLI 80441 SENIOR CLINICAL ROTATION I 4 Credit Hours**

The senior podiatric rotation is a one-month rotation at the Cleveland Foot and Ankle Institute, which emphasizes competencies needed to enter hospital residency training. Experiences are gained in primary clinical sites and external sites affiliated with the college.

**Prerequisite:** Students must be enrolled in the Podiatric Medicine program in order to register for this course.

**Schedule Type:** Clinical Laboratory

**Contact Hours:** 48 other

**Grade Mode:** Standard Letter-S/U-IP

**CLI 80442 SENIOR CLINICAL ROTATION II 4 Credit Hours**

The senior podiatric rotation is a one-month rotation at the Cleveland Foot and Ankle Institute, which emphasized competencies needed to enter hospital residency training. Experiences are gained in primary clinical sites and external sites affiliated with the college.

**Prerequisite:** Students must be enrolled in the Podiatric Medicine program in order to register for this course.

**Schedule Type:** Clinical Laboratory

**Contact Hours:** 48 other

**Grade Mode:** Standard Letter-S/U-IP



**CLI 80445 SENIOR ROTATION VETERANS ADMINISTRATION HOSPITAL  
4 Credit Hours**

Designed to provide clinical experiences in primary care management, treatment, and problem solving for that special population in the VA medical center, Brecksville nursing home environment and extended care facilities. This rotation also gives the students the opportunity to gain experience by providing care to the medically disenfranchised veterans. Additionally, intensive educational opportunities are offered to evaluate and treat various degrees of chronic and acute wounds, as well as offer some surgical experience. Finally all students are offered an opportunity to participate in a specialized surgical clinic, designed to be interactive and skills oriented, followed by surgical case presentations and group discussions.

**Prerequisite:** Student must be enrolled in the Podiatric Medicine program.

**Schedule Type:** Clinical Laboratory

**Contact Hours:** 16 other

**Grade Mode:** Satisfactory/Unsatisfactory

**CLI 80455 COMMUNITY MEDICINE/MEDICAL IMAGING ROTATION 4  
Credit Hours**

In addition to the rotations on campus, the college operates several community medicine clinics in various sites throughout the city of Cleveland to full the college's commitment to serve the community. Students are assigned to these clinics and treat patients under the supervision of members of the clinical faculty. Students are afforded the opportunity to provide care and develop an understanding and appreciation of community based health problems. Also included is training in various imaging modalities including plain film radiography, MRI and CT scanning.

**Prerequisite:** Student must be enrolled in the Podiatric Medicine program.

**Schedule Type:** Clinical Laboratory

**Contact Hours:** 16 other

**Grade Mode:** Satisfactory/Unsatisfactory

**CLI 80460 CLERKSHIP ROTATION I 4 Credit Hours**

Designed to enhance the clinical education and patient exposure of the podiatric medical student. This interdisciplinary training affords students an opportunity to share and expand their knowledge with experience members of the health care team in Cleveland and around the country. Office and hospital based programs available in almost every state, offer a diversity of clinical experiences. Students are expected to participate in a minimum of five months of external rotations during their fourth year. An orientation is conducted and a complete handbook of information is provided to the third year student to assist in this important educational process.

**Prerequisite:** Student must be enrolled in the Podiatric Medicine program.

**Schedule Type:** Clinical Laboratory

**Contact Hours:** 4 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**CLI 80465 CLERKSHIP ROTATION II 4 Credit Hours**

Designed to enhance the clinical education and patient exposure of the podiatric medical student. This interdisciplinary training affords students an opportunity to share and expand their knowledge with experience members of the health care team in Cleveland and around the country. Office and hospital based programs available in almost every state, offer a diversity of clinical experiences. Students are expected to participate in a minimum of five months of external rotations during their fourth year. An orientation is conducted and a complete handbook of information is provided to the third year student to assist in this important educational process.

**Prerequisite:** Student must be enrolled in the Podiatric Medicine program.

**Schedule Type:** Clinical Laboratory

**Contact Hours:** 4 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**CLI 80470 CLERKSHIP ROTATION III 4 Credit Hours**

Designed to enhance the clinical education and patient exposure of the podiatric medical student. This interdisciplinary training affords students an opportunity to share and expand their knowledge with experience members of the health care team in Cleveland and around the country. Office and hospital based programs available in almost every state, offer a diversity of clinical experiences. Students are expected to participate in a minimum of five months of external rotations during their fourth year. An orientation is conducted and a complete handbook of information is provided to the third year student to assist in this important educational process.

**Prerequisite:** Student must be enrolled in the Podiatric Medicine program.

**Schedule Type:** Clinical Laboratory

**Contact Hours:** 4 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**CLI 80475 CLERKSHIP ROTATION IV 4 Credit Hours**

Designed to enhance the clinical education and patient exposure of the podiatric medical student. This interdisciplinary training affords students an opportunity to share and expand their knowledge with experience members of the health care team in Cleveland and around the country. Office and hospital based programs available in almost every state, offer a diversity of clinical experiences. Students are expected to participate in a minimum of five months of external rotations during their fourth year. An orientation is conducted and a complete handbook of information is provided to the third year student to assist in this important educational process.

**Prerequisite:** Student must be enrolled in the Podiatric Medicine program.

**Schedule Type:** Clinical Laboratory

**Contact Hours:** 4 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**CLI 80480 CLERKSHIP ROTATION V 4 Credit Hours**

Designed to enhance the clinical education and patient exposure of the podiatric medical student. This interdisciplinary training affords students an opportunity to share and expand their knowledge with experience members of the health care team in Cleveland and around the country. Office and hospital based programs available in almost every state, offer a diversity of clinical experiences. Students are expected to participate in a minimum of five months of external rotations during their fourth year. An orientation is conducted and a complete handbook of information is provided to the third year student to assist in this important educational process.

**Prerequisite:** Student must be enrolled in the Podiatric Medicine program.

**Schedule Type:** Clinical Laboratory

**Contact Hours:** 4 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**CLI 80485 CLERKSHIP ROTATION VI 4 Credit Hours**

Designed to enhance the clinical education and patient exposure of the podiatric medical student. This interdisciplinary training affords students an opportunity to share and expand their knowledge with experience members of the health care team in Cleveland and around the country. Office and hospital based programs available in almost every state, offer a diversity of clinical experiences. Students are expected to participate in a minimum of five months of external rotations during their fourth year. An orientation is conducted and a complete handbook of information is provided to the third year student to assist in this important educational process.

**Prerequisite:** Student must be enrolled in the Podiatric Medicine program.

**Schedule Type:** Clinical Laboratory

**Contact Hours:** 4 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**CLI 80490 CLERKSHIP VII 4 Credit Hours**

Designed to enhance the clinical education and patient exposure of the podiatric medical student. This interdisciplinary training affords students an opportunity to share and expand their knowledge with experience members of the health care team in Cleveland and around the country. Office and hospital based programs available in almost every state, offer a diversity of clinical experiences. Students are expected to participate in a minimum of five months of external rotations during their fourth year, but are given the opportunity to add elective clerkship rotations. An orientation is conducted and a complete handbook of information is provided to the third year student to assist in this important educational process. This is an elective rotation that is available in the event that students wish to gain additional experience in a clinical setting prior to graduation.

**Prerequisite:** Student must be enrolled in the Podiatric Medicine program.

**Schedule Type:** Clinical Laboratory

**Contact Hours:** 10 other

**Grade Mode:** Satisfactory/Unsatisfactory

**CLI 80521 SENIOR MEDICINE ROTATION I 4 Credit Hours**

One month external rotation at an area hospital. Students are instructed in skills, values and knowledge necessary to perform a complete medical history and physical.

**Prerequisite:** Students must be enrolled in the Podiatric Medicine program in order to register for this course.

**Schedule Type:** Clinical Laboratory

**Contact Hours:** 48 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**CLI 80522 SENIOR MEDICINE ROTATION II 4 Credit Hours**

One-month external rotation at an area hospital. Students are instructed in skills, values and knowledge necessary to perform a complete medical history and physical.

**Prerequisite:** Students must be enrolled in the Podiatric Medicine program in order to register for this course.

**Schedule Type:** Clinical Laboratory

**Contact Hours:** 48 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

## Clinical Laboratory Sciences (CLS)

**CLS 49010 CLINICAL MICROBIOLOGY: THEORY 4 Credit Hours**

Theoretical consideration of laboratory isolation, cultivation, identification and characterization of pathogenic microorganisms.

**Prerequisite:** Medical technology major.

**Schedule Type:** Clinical Laboratory

**Contact Hours:** 8 other

**Grade Mode:** Standard Letter-IP

**CLS 49011 CLINICAL MICROBIOLOGY: APPLICATIONS 4 Credit Hours**

Applied and practical considerations of theoretical aspects of laboratory isolation, cultivation, identification and characterization of pathogenic microorganisms.

**Prerequisite:** Medical Technology major.

**Schedule Type:** Clinical Laboratory

**Contact Hours:** 8 other

**Grade Mode:** Standard Letter-IP

**CLS 49012 CLINICAL IMMUNOLOGY: THEORY 1 Credit Hour**

Theoretical considerations of laboratory practices involving quantitation and detection of antigens and antibodies and the significance of these findings in pathological states.

**Prerequisite:** Medical technology major.

**Schedule Type:** Clinical Laboratory

**Contact Hours:** 2 other

**Grade Mode:** Standard Letter-IP

**CLS 49013 CLINICAL IMMUNOLOGY: APPLICATIONS 1 Credit Hour**

Applied and practical consideration of laboratory practices in immunology and serology relating to diagnosis of disease states.

**Prerequisite:** Medical technology major.

**Schedule Type:** Clinical Laboratory

**Contact Hours:** 2 other

**Grade Mode:** Standard Letter-IP

**CLS 49014 CLINICAL MYCOLOGY: THEORY AND APPLICATIONS 1 Credit Hour**

Theoretical, applied and practical consideration of the isolation, identification and characterization of pathogenic fungi and their relation to human disease states.

**Prerequisite:** Medical technology major.

**Schedule Type:** Clinical Laboratory

**Contact Hours:** 2 other

**Grade Mode:** Standard Letter-IP

**CLS 49015 CLINICAL PARASITOLOGY: THEORY AND APPLICATIONS 1 Credit Hour**

Theoretical, applied and practical considerations of the isolation identification and characterization of human parasites and their relations to pathologic conditions.

**Prerequisite:** Medical technology major.

**Schedule Type:** Clinical Laboratory

**Contact Hours:** 2 other

**Grade Mode:** Standard Letter-IP

**CLS 49020 CLINICAL CHEMISTRY: THEORY 4 Credit Hours**

Theoretical considerations of the principles of clinical chemistry relating to the identification and quantitation of biologically important substances in blood and other body fluids.

**Prerequisite:** Medical technology major.

**Schedule Type:** Clinical Laboratory

**Contact Hours:** 8 other

**Grade Mode:** Standard Letter-IP

**CLS 49021 CLINICAL CHEMISTRY: APPLICATIONS 3 Credit Hours**

Applied and practical considerations of clinical chemistry principles relating to significant changes in body fluids as the result of pathologic conditions.

**Prerequisite:** Medical technology major.

**Schedule Type:** Clinical Laboratory

**Contact Hours:** 6 other

**Grade Mode:** Standard Letter-IP

**CLS 49022 URINALYSIS: THEORY 1 Credit Hour**

Theoretical considerations of the physiological activities of the renal system together with laboratory principles of analysis of urine and other body fluids.

**Prerequisite:** Medical technology major.

**Schedule Type:** Clinical Laboratory

**Contact Hours:** 2 other

**Grade Mode:** Standard Letter-IP

**CLS 49023 URINALYSIS: APPLICATIONS 1 Credit Hour**

Applied and practical considerations of laboratory practices in urine and other body fluid analysis as aids in diagnosis of disease.

**Prerequisite:** Medical technology major.

**Schedule Type:** Clinical Laboratory

**Contact Hours:** 2 other

**Grade Mode:** Standard Letter-IP

**CLS 49030 IMMUNOHEMATOLOGY: THEORY 2 Credit Hours**

Theoretical consideration of laboratory procedures involved in blood grouping and typing; identification of blood group antigens and antibodies collection and preparation of blood for transfusion.

**Prerequisite:** Medical technology major.

**Schedule Type:** Clinical Laboratory

**Contact Hours:** 4 other

**Grade Mode:** Standard Letter-IP

**CLS 49031 IMMUNOHEMATOLOGY: APPLICATIONS 2 Credit Hours**

Applied and practical consideration of laboratory methods for the administration of blood and its components.

**Prerequisite:** Medical technology major.

**Schedule Type:** Clinical Laboratory

**Contact Hours:** 4 other

**Grade Mode:** Standard Letter-IP

**CLS 49032 COAGULATION: THEORY AND APPLICATIONS 1 Credit Hour**

Theoretical consideration of the coagulation mechanism and its relation to pathological states; identification of abnormalities and deficiencies.

**Prerequisite:** Medical technology major.

**Schedule Type:** Clinical Laboratory

**Contact Hours:** 2 other

**Grade Mode:** Standard Letter-IP

**CLS 49033 CLINICAL HEMATOLOGY: THEORY 2 Credit Hours**

Theoretical considerations of the development of formed elements; identification of marrow and blood cells; study of normal and abnormal cellular blood components.

**Prerequisite:** Medical technology major.

**Schedule Type:** Clinical Laboratory

**Contact Hours:** 4 other

**Grade Mode:** Standard Letter-IP

**CLS 49034 CLINICAL HEMATOLOGY: APPLICATIONS 2 Credit Hours**

Applied and practical consideration of laboratory methods and procedures in identification and enumeration of normal and abnormal formed elements of blood.

**Prerequisite:** Medical technology major.

**Schedule Type:** Clinical Laboratory

**Contact Hours:** 4 other

**Grade Mode:** Standard Letter-IP

**CLS 49040 TOPICS IN LABORATORY MANAGEMENT 1 Credit Hour**

Consideration of topics relating to safety, education, personnel, budgeting, scheduling and medical legal problems. Repeatable for a total of 4 hours.

**Prerequisite:** Medical technology major.

**Schedule Type:** Clinical Laboratory

**Contact Hours:** 2 other

**Grade Mode:** Standard Letter-IP

**CLS 49095 SPECIAL TOPICS IN MEDICAL TECHNOLOGY 1-4 Credit Hours**

(Repeatable for a maximum of 4 credit hours) Topical consideration of special techniques encountered in nuclear medicine, cytology, cytogenetics, virology, toxicology and special instrumentation.

**Prerequisite:** Medical technology major.

**Schedule Type:** Clinical Laboratory

**Contact Hours:** 2-8 other

**Grade Mode:** Standard Letter-IP

## College of the Arts (CA)

**CA 10195 SPECIAL TOPICS IN THE COLLEGE OF THE ARTS 1-5 Credit Hours**

(Repeatable for credit) This program, administered by the dean, is intended to encourage interdisciplinary study, to cover areas not treated adequately in the standard course and to make available promptly the new and significant experience of the faculty. Requests for the scheduling of these courses are made by faculty members or students to the sponsoring school or to the dean. The schools concerned clear the proposed course with the Curriculum Committee of the college.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 1-5 lecture

**Grade Mode:** Standard Letter

**CA 20000 PERFORMING ARTS I 3 Credit Hours**

An inter-arts course introducing expressive materials, representative literature and historical contexts of major dance, music and theatre styles with appropriate reference to other art forms.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CA 20001 PERFORMING ARTS II 3 Credit Hours**

Continuation of Performing Arts I.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CA 20003 SPEAKER SERIES IN ARTS ENTREPRENEURSHIP 1 Credit Hour**

Explores entrepreneurship in the arts disciplines based on the experience of a broad range of artists and arts entrepreneurs. Guest speakers will share their experiences, career paths, successful strategies and career challenges.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 1 lecture

**Grade Mode:** Standard Letter

**CA 20295 SPECIAL TOPICS IN THE COLLEGE OF THE ARTS 1-5 Credit Hours**

(Repeatable for credit) This program, administered by the dean, is intended to encourage interdisciplinary study, to cover areas not treated adequately in the standard course and to make available promptly the new and significant experience of the faculty. Requests for the scheduling of these courses are made by faculty members or students to the sponsoring school or to the dean. The schools concerned clear the proposed course with the Curriculum Committee of the college.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 1-5 lecture

**Grade Mode:** Standard Letter

**CA 30395 SPECIAL TOPICS IN THE COLLEGE OF THE ARTS 1-5 Credit Hours**

(Repeatable for credit) This program, administered by the dean, is intended to encourage interdisciplinary study, to cover areas not treated adequately in the standard course and to make available promptly the new and significant experience of the faculty. Requests for the scheduling of these courses are made by faculty members or students to the sponsoring school or to the dean. The schools concerned clear the proposed course with the Curriculum Committee of the college.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 1-5 lecture

**Grade Mode:** Standard Letter

**CA 31300 MUSIC CAREER DEVELOPMENT AND ENTREPRENEURSHIP 2 Credit Hours**

This course includes a study of music entrepreneurship and the attributes of successful musicians including creating a project, financing a project, and marketing a project for understanding of career options in various music fields. This course mixes theory with practice and challenges the student to apply concepts and principles to real world situations.

**Prerequisite:** Music, Music Education or Music Technology major; and junior standing.

**Schedule Type:** Laboratory, Lecture, Combined Lecture and Lab

**Contact Hours:** 1 lecture, 2 lab

**Grade Mode:** Standard Letter

**CA 40493 VARIABLE TITLE WORKSHOP IN THE COLLEGE OF THE ARTS 1-5 Credit Hours**

(Repeatable for credit) Workshop setting dealing with topics within the College of the Arts.

**Prerequisite:** None.

**Schedule Type:** Workshop

**Contact Hours:** 1-5 other

**Grade Mode:** Satisfactory/Unsatisfactory

**CA 40495 SPECIAL TOPICS IN THE COLLEGE OF THE ARTS 1-5 Credit Hours**

(Repeatable for credit) This program, administered by the dean, is intended to encourage interdisciplinary study, to cover areas not treated adequately in the standard course and to make available promptly the new and significant experience of the faculty. Requests for the scheduling of these courses are made by faculty members or students to the sponsoring school or to the dean. The schools concerned clear the proposed course with the Curriculum Committee of the college.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 1-5 lecture

**Grade Mode:** Standard Letter

**CA 41495 SPECIAL TOPICS IN THE COLLEGE OF THE ARTS 1-5 Credit Hours**

(Repeatable for credit) This program, administered by the dean, is intended to encourage interdisciplinary study, to cover areas not treated adequately in the standard course, and to make available promptly the new and significant experience of the faculty. Requests for the scheduling of these courses are made by faculty members or students to the sponsoring school or to the dean. The school concerned clears the proposed course with the College Curriculum Committee.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 1-5 lecture

**Grade Mode:** Satisfactory/Unsatisfactory

## Communication and Information (CCI)

**CCI 10095 SPECIAL TOPICS IN COMMUNICATION AND INFORMATION 1-3 Credit Hours**

(Repeatable for credit) Interdisciplinary and/or collaborative learning experiences in areas not covered by traditional coursework.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 1-3 lecture

**Grade Mode:** Satisfactory/Unsatisfactory

**CCI 10195 SELECTED TOPICS IN COMMUNICATION AND INFORMATION 1-3 Credit Hours**

(Repeatable for credit) Interdisciplinary and-or collaborative learning experiences in areas not covered by traditional coursework.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 1-3 lecture

**Grade Mode:** Standard Letter

**CCI 12001 PHOTOGRAPHY 3 Credit Hours**

This is an introductory course intended to provide a basic understanding of the photographic process as visual communication. The course will explore why humans are compelled to capture images and how our visual language has impacted society and culture. Students will learn camera controls, depth of field, composition, exposure, image correction, digital workflow and other topics through a range of photographic assignments. This course will also focus on the history, technology, ethics and art of photography.

**Prerequisite:** None.

**Schedule Type:** Laboratory, Lecture, Combined Lecture and Lab

**Contact Hours:** 2 lecture, 2 lab

**Grade Mode:** Standard Letter

**CCI 20001 INTRODUCTION TO MEDIA ADVOCACY 3 Credit Hours**

This course examines how stories are used to create change, a process referred to as story-based strategy. Throughout the semester, students examine how organizers, advocates and social movements use stories and other activation tactics to gain media attention, pierce public apathy, reshape public opinion, and create or resist change. Using academic texts and case studies, students also critically consider how social movements use and interact with the media, the role of media in covering social movements, the benefits and risks of media coverage and the evolving line between journalism and advocacy. Students have the opportunity to analyze social change stories of their choosing, develop and present a substantive social change case study, engage in direct action for causes that matter to them and engage in collective action tactics related to a social change campaign.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CCI 40095 SPECIAL TOPICS IN COMMUNICATION AND INFORMATION 1-3 Credit Hours**

(Repeatable for credit) (Slashed with CCI 50095) Interdisciplinary and/or collaborative learning experiences in areas not covered by traditional coursework.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 1-3 lecture

**Grade Mode:** Standard Letter-IP

**CCI 45091 SEMINAR IN MEDIA AND MOVEMENTS (ELR) 3 Credit Hours**

(Slashed with CCI 55091) The College of Communication and Information's (CCI's) Media and Movements Seminar is a high-impact, immersive educational experience that involves problem-based learning about a significant and highly relevant social issue. The course enables CCI undergraduate and graduate students, as well as students from other Kent State departments and colleges, to apply their communication, research, multimedia storytelling, design, advocacy, data, information and knowledge management skills to help clients and communities affected by the social issue. The seminar relies heavily upon experiential learning and field research and requires students to work independently and as part of interdisciplinary teams to develop public awareness and advocacy campaigns.

**Prerequisite:** Sophomore standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Experiential Learning Requirement

**CCI 46001 RESPONSIVE WEB DESIGN 3 Credit Hours**

(Slashed with CCI 56001) Students learn the fundamentals for designing and developing a responsive website design system using HTML, CSS and JavaScript, while also applying research, content strategy and testing techniques. Materials and information are delivered through lectures, demos, hands-on exercises and a semester-long project.

**Prerequisite:** VCD 21000.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CCI 46002 ADVANCED RESPONSIVE WEB DESIGN 3 Credit Hours**

(Slashed with CCI 56002) Advanced Responsive Web Design takes the key principles covered in the Responsive Web Design course (or equivalent courses) and expands upon them within the framework of a client project. Students will design and develop a responsive website in a content management system (CMS) that can be edited by a client. Teams will be assigned responsibility to complete the project throughout the semester using advanced web design tools in the areas of user experience, visual design, web development and content strategy. Students also interact with a real client throughout the semester, gaining hands-on experience with deadlines, feedback and agile project management.

**Prerequisite:** CCI 46001; and special approval.

**Schedule Type:** Laboratory, Lecture, Combined Lecture and Lab

**Contact Hours:** 2 lecture, 2 lab

**Grade Mode:** Standard Letter

**CCI 50095 SPECIAL TOPICS IN COMMUNICATION AND INFORMATION 1-3 Credit Hours**

(Repeatable for credit) (Cross-listed with CCI 40095) Interdisciplinary and/or collaborative learning experiences in areas not covered by traditional coursework.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 1-3 lecture

**Grade Mode:** Standard Letter-IP

**CCI 55091 SEMINAR IN MEDIA AND MOVEMENTS 3 Credit Hours**

(Slashed with CCI 45091) The College of Communication and Information's (CCI's) Media and Movements Seminar is a high-impact, immersive educational experience that involves problem-based learning about a significant and highly relevant social issue. The course enables CCI undergraduate and graduate students, as well as students from other Kent State departments and colleges, to apply their communication, research, multimedia storytelling, design, advocacy, data, information and knowledge management skills to help clients and communities affected by the social issue. The seminar relies heavily upon experiential learning and field research and requires students to work independently and as part of interdisciplinary teams to develop public awareness and advocacy campaigns.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CCI 56001 RESPONSIVE WEB DESIGN 3 Credit Hours**

(Slashed with CCI 46001) Students learn the fundamentals for designing and developing a responsive website design system using HTML, CSS and JavaScript, while also applying research, content strategy and testing techniques. Materials and information are delivered through lectures, demos, hands-on exercises and a semester-long project.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter



**CCI 56002 ADVANCED RESPONSIVE WEB DESIGN 3 Credit Hours**  
 (Slashed with CCI 46002) Advanced Responsive Web Design takes the key principles covered in the Responsive Web Design course (or equivalent courses) and expands upon them within the framework of a client project. Students will design and develop a responsive website in a content management system (CMS) that can be edited by a client. Students will lead separate teams of undergraduate students who are assigned responsibility to complete the project throughout the semester using advanced web design tools in the areas of user experience, visual design, web development and content strategy. Students also interact with a real client throughout the semester, gaining hands-on experience with deadlines, feedback and agile project management.  
**Prerequisite:** CCI 56001; graduate standing; and special approval.  
**Schedule Type:** Laboratory, Lecture, Combined Lecture and Lab  
**Contact Hours:** 2 lecture, 2 lab  
**Grade Mode:** Standard Letter

**CCI 60000 FOUNDATIONS OF COMMUNICATION AND INFORMATION INQUIRY 3 Credit Hours**  
 (Slashed with CCI 80000) Introduction to epistemological foundations of the Communication and Information (CCI) disciplines, theory construction and academic writing for the CCI PhD.  
**Prerequisite:** Graduate standing.  
**Schedule Type:** Lecture  
**Contact Hours:** 3 lecture  
**Grade Mode:** Standard Letter

**CCI 60001 FOUNDATIONS OF RESEARCH AND SCHOLARSHIP IN COMMUNICATION AND INFORMATION 3 Credit Hours**  
 (Slashed with CCI 80001) Overview of the process of engaging with and presenting empirical research in communication and information, emphasizing the importance of clear conceptualization, meaningful engagement with literature, and effective presentation of findings.  
**Prerequisite:** Graduate standing.  
**Schedule Type:** Lecture  
**Contact Hours:** 3 lecture  
**Grade Mode:** Standard Letter

**CCI 60095 SPECIAL TOPICS IN COMMUNICATION AND INFORMATION 1-3 Credit Hours**  
 (Repeatable for credit) (Slashed with CCI 80095) Interdisciplinary and/or collaborative learning experiences in areas not covered by traditional coursework.  
**Prerequisite:** Graduate standing.  
**Schedule Type:** Lecture  
**Contact Hours:** 1-3 lecture  
**Grade Mode:** Standard Letter-IP

**CCI 60097 COLLOQUIUM IN COMMUNICATION AND INFORMATION 1 Credit Hour**  
 (Slashed with CCI 80097) The colloquium course provides College of Communication & Information (CCI) master's level students exposure to cutting edge research, professional socialization to the doctoral program, and a platform to present their own research and ideas.  
**Prerequisite:** Graduate standing.  
**Schedule Type:** Lecture  
**Contact Hours:** 1 lecture  
**Grade Mode:** Satisfactory/Unsatisfactory

**CCI 61000 QUANTITATIVE RESEARCH METHODS IN COMMUNICATION AND INFORMATION 3 Credit Hours**  
 (Slashed with CCI 81000) This course Investigates quantitative social science methods applicable to the study of communication and information, including survey, content analysis, and experimental approaches. Emphasis is on original and secondary data collection, data analysis, data illustration, and interpreting and reporting research results for scholarly and lay audiences.  
**Prerequisite:** Graduate standing.  
**Schedule Type:** Lecture  
**Contact Hours:** 3 lecture  
**Grade Mode:** Standard Letter

**CCI 80000 FOUNDATIONS OF COMMUNICATION AND INFORMATION INQUIRY 3 Credit Hours**  
 (Slashed with CCI 60000) Introduction to epistemological foundations of the Communication and Information (CCI) disciplines, theory construction and academic writing for the CCI PhD.  
**Prerequisite:** Doctoral standing.  
**Schedule Type:** Lecture  
**Contact Hours:** 3 lecture  
**Grade Mode:** Standard Letter

**CCI 80001 FOUNDATIONS OF RESEARCH AND SCHOLARSHIP IN COMMUNICATION AND INFORMATION 3 Credit Hours**  
 (Slashed with CCI 60001) Overview of the process of engaging with and presenting empirical research in communication and information, emphasizing the importance of clear conceptualization, meaningful engagement with literature, and effective presentation of findings.  
**Prerequisite:** Doctoral standing.  
**Schedule Type:** Lecture  
**Contact Hours:** 3 lecture  
**Grade Mode:** Standard Letter

**CCI 80094 COLLEGE TEACHING IN COMMUNICATION AND INFORMATION 3 Credit Hours**  
 Training and investigation of best practices for collegiate instruction: course development, classroom performance, evaluation and reflection, introduction to instructional research.  
**Prerequisite:** Doctoral standing.  
**Schedule Type:** Seminar  
**Contact Hours:** 3 other  
**Grade Mode:** Standard Letter

**CCI 80095 SPECIAL TOPICS IN COMMUNICATION AND INFORMATION 1-3 Credit Hours**  
 (Repeatable for credit) (Slashed with CCI 80095) Interdisciplinary and/or collaborative learning experiences in areas not covered by traditional coursework.  
**Prerequisite:** Doctoral standing.  
**Schedule Type:** Lecture  
**Contact Hours:** 1-3 lecture  
**Grade Mode:** Standard Letter-IP

**CCI 80096 INDIVIDUAL INVESTIGATION IN COMMUNICATION AND INFORMATION 1-3 Credit Hours**  
 (Repeatable with the approval of the student's advisor for a maximum of 6 credit hours) Independent study of area or problem to be selected in consultation with doctoral faculty.  
**Prerequisite:** Doctoral standing; and special approval.  
**Schedule Type:** Individual Investigation  
**Contact Hours:** 1-3 other  
**Grade Mode:** Standard Letter-IP

**CCI 80097 COLLOQUIUM IN COMMUNICATION AND INFORMATION****1 Credit Hour**

(Slashed with CCI 60097) The colloquium course provides College of Communication & Information (CCI) master's level students exposure to cutting edge research, professional socialization to the doctoral program, and a platform to present their own research and ideas.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Colloquium

**Contact Hours:** 1 lecture

**Grade Mode:** Satisfactory/Unsatisfactory

**CCI 80199 DISSERTATION I 15 Credit Hours**

(Repeatable for credit) Doctoral dissertation for which registration in at least two semesters is required, first of which will be semester in which dissertation work is begun and continuing until the completion of 30 hours.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Dissertation

**Contact Hours:** 15 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**CCI 80299 DISSERTATION II 15 Credit Hours**

(Repeatable for credit) Continuing registration required of doctoral students who have completed the initial 30 hours of dissertation and continuing until all degree requirements are met.

**Prerequisite:** CCI 80199 or COMM 80199; and doctoral standing.

**Schedule Type:** Dissertation

**Contact Hours:** 15 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**CCI 81000 QUANTITATIVE RESEARCH METHODS IN COMMUNICATION AND INFORMATION 3 Credit Hours**

(Slashed with CCI 61000) This course Investigates quantitative social science methods applicable to the study of communication and information, including survey, content analysis, and experimental approaches. Emphasis is on original and secondary data collection, data analysis, data illustration, and interpreting and reporting research results for scholarly and lay audiences.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CCI 85098 RESEARCH IN COMMUNICATION AND INFORMATION****1-15 Credit Hours**

(Repeatable for credit) Research or individual investigation for doctoral students who have not yet passed their candidacy examination. Credits may be applied toward degree if doctoral supervisory committee and CCI College Doctoral Program Policy Committee approve.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Research

**Contact Hours:** 1-15 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

## Communication Studies (COMM)

**COMM 15000 INTRODUCTION TO HUMAN COMMUNICATION (KADL) 3 Credit Hours**

An inquiry into the nature and function of human communication in interpersonal, group and public contexts.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Kent Core Additional, TAG Communication, Transfer Module Composition

**COMM 20000 FOUNDATIONS OF COMMUNICATION 3 Credit Hours**

The foundations of communication studies course serves as an introduction to the major. Provides an introduction to communication studies faculty, research and the major concentrations of the school; highlights possible careers in communication studies; and introduces possible ways students can supplement curriculum efforts through involvement.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**COMM 20001 INTERPERSONAL COMMUNICATION 3 Credit Hours**

Introduction to human interpersonal communication. Components and structures situations and contexts are described nonevaluative focus with emphasis on informal experience.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** TAG Communication

**COMM 21000 COMMUNICATION GRAMMAR REVIEW 1 Credit Hour**

Designed to increase grammar, punctuation, spelling and syntax skills and proficiency. Students must earn a minimum C grade to fulfill the grammar requirement.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 1 lecture

**Grade Mode:** Standard Letter

**COMM 25863 BUSINESS AND PROFESSIONAL COMMUNICATION 3 Credit Hours**

Fundamentals of public and conference speaking, conducting meetings, electronic presentations, interviewing and interpersonal relations as applied to business and organizational settings.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**COMM 25902 COMMUNICATION THEORY 3 Credit Hours**

Study of the process of human communication. Emphasis on source, message, channel and receiver dimensions of communication. Examination of major theories of communication and social influence.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** TAG Communication

**COMM 26000 CRITICISM OF PUBLIC DISCOURSE (DIVD) (KHUM) 3 Credit Hours**

A critical examination of selected public speeches representing diverse viewpoints on a variety of historic and contemporary issues, emphasizing methods of evaluating public oral communication and the role of speechmaking in free societies.

**Prerequisite:** Sophomore standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Diversity Domestic, Kent Core Humanities, Transfer Module Humanities

**COMM 26001 PUBLIC COMMUNICATION IN SOCIETY 3 Credit Hours**

Examines communication in public settings. Content includes issues in mass media, political communication and political advertising, news, crisis communication, public opinion, and communication in executive, legislative and judicial settings. Students explore the influence of mediated messages via application of mass communication theories and constructs.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**COMM 26501 INTRODUCTION TO HEALTH COMMUNICATION 3 Credit Hours**

Introduction to the roles of communication in health, health and risk behavior, health care, and health promotion, including interpersonal, organizational and media contexts.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**COMM 30000 COMMUNICATION RESEARCH METHODS 3 Credit Hours**

Introduction to qualitative and quantitative research methods in communication. Students should complete this course early in their program of study.

**Prerequisite:** Minimum 2.000 overall GPA.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**COMM 34000 COMMUNICATION ETHICS (WIC) 3 Credit Hours**

This course focuses on the ethics of communication activities and practices. We will explore ethical frameworks, principles, and guidelines for help discerning what rights and responsibilities, if any, communicators have to themselves, to their families and communities, and to the broader global community.

**Prerequisite:** Minimum C grade in COMM 21000 or ENG 31001; and minimum 2.000 overall GPA.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Writing Intensive Course

**COMM 35464 ARGUMENTATION AND PERSUASIVE COMMUNICATION 3 Credit Hours**

Students will be introduced to principles and practices of effective argumentation and persuasive communication. Through exposure to rhetorical and social scientific theories, students will engage in research to develop argumentative cases and assess persuasive messaging strategies in mediated contexts. The course emphasizes processes of reasoning, the nature and use of evidence, recognition of common fallacies, media and information literacy, and generation and construction of valid and ethical arguments. Assignments will allow students to practice argumentation and persuasive communication as well as develop critical thinking skills needed to evaluate arguments and persuasive messages.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**COMM 35600 COMMUNICATION IN SMALL GROUPS AND TEAMS 3 Credit Hours**

Focuses on the application and practice of group communication skills and techniques applied to goal-oriented small group situations. Course explores communication theory and research about small groups and teams, relating in group and teams, managing conflict in groups and teams, leadership in groups and teams and problem-solving in groups and teams.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** TAG Communication

**COMM 35852 INTERCULTURAL COMMUNICATION (DIVG) 3 Credit Hours**

Theory and application of communication between people of different cultures and different national systems.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Diversity Global

**COMM 35860 INTERVIEWING 3 Credit Hours**

Techniques, principles and practical skills for interviews most likely to occur in business environments; job searches and selection interviews, information-gathering interviews, performance appraisals, counseling interviews and persuasive interviews.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**COMM 35864 ORGANIZATIONAL COMMUNICATION 3 Credit Hours**

Application of communication theory to organizational settings. Exploration of communication structures processes and methods in organizations.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**COMM 35912 GENDER AND COMMUNICATION (DIVD) 3 Credit Hours**

Explores how gender is socially constructed in everyday communicative interactions and institutional contexts, including close relationships, organizations, school settings and the media. In the process, this course uncovers how the social construction of gender perpetuates power imbalances in society.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Diversity Domestic

**COMM 36501 COMMUNICATION IN HEALTH CARE 3 Credit Hours**

Examination of the dynamics of communication in health care settings, including provider-patient interaction, using communication theory, research and health advocacy skills across a variety of health care contexts.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**COMM 36505 COMMUNICATION, AGING AND CULTURE 3 Credit Hours**

Examination of the roles of aging and culture on human communication.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**COMM 37091 SEMINAR IN COMMUNICATION AND POPULAR CULTURE 3 Credit Hours**

(Repeatable twice for credit) Popular culture is driven by communication. The messages contained in that communication can be both prescriptive and descriptive and can reveal much about people's culture, attitudes, fears, values and perceptions of reality. Course will focus on messages contained in various popular culture artifacts including, but not limited to film, television, internet, music and literature.

**Prerequisite:** None.

**Schedule Type:** Seminar

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**COMM 40001 ADVANCED INTERPERSONAL COMMUNICATION 3 Credit Hours**

Advanced treatment of interpersonal communication theory and research. Interpersonal principles are applied to group and organizational contexts.

**Prerequisite:** COMM 20001.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**COMM 41000 SPORTS COMMUNICATION 3 Credit Hours**

An examination of the inter-relationship between sports and communication in today's society. Students discuss and examine sports through communication lenses (groups, interpersonal, media/mediated and organizational).

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**COMM 42000 MEDIA, WAR AND PROPAGANDA 3 Credit Hours**

Examines the influence of TV, movies, and media images of war, the war effort and portrayals of enemies, protesters and anti-war groups on communication research, including mass communication and persuasion.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**COMM 43000 COMMUNICATION TECHNOLOGY AND HUMAN INTERACTION 3 Credit Hours**

Course aims to help students develop a critical understanding of diverse newer media and how they are used and affect human interaction. In achieving this goal, students are expected to learn how newer media are different from and similar to face-to-face communication or traditional mass media, newer media's social and psychological effects on human interactions, and theoretical frameworks explaining these media.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**COMM 45006 MEDIA USE AND EFFECTS 3 Credit Hours**

The course examines the ways in which communication scholars have conceptualized and analyzed media processes, uses and effects. We explore such issues as media portrayals, news coverage, political campaigns, sex and violence in the media, media entertainment, children and television, and newer communication technologies.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter-IP

**COMM 45007 FREEDOM OF SPEECH 3 Credit Hours**

(Slashed with COMM 55007) Examines historic and contemporary instances relating to freedom of speech; study of limits, rights, responsibilities and socio-legal-rhetorical issues.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**COMM 45091 SEMINAR IN COMMUNICATION STUDIES 1-4 Credit Hours**

(Repeatable for a maximum of 9 credit hours) Examination of selected communication topics/areas and related research.

**Prerequisite:** None.

**Schedule Type:** Seminar

**Contact Hours:** 1-4 other

**Grade Mode:** Standard Letter

**COMM 45092 INTERNSHIP IN COMMUNICATION STUDIES (ELR) 3-6 Credit Hours**

(Repeatable for credit) A formal, cooperative field experience with a designated organization or agency as designed by the students and the internship coordinator.

**Prerequisite:** Minimum C grade in COMM 21000 or ENG 31001; and COMM 45902; and EMAT 10310; and minimum 2.000 overall GPA; and senior standing; and special approval.

**Schedule Type:** Practical Experience

**Contact Hours:** 9-18 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**Attributes:** Experiential Learning Requirement

**COMM 45093 VARIABLE TITLE WORKSHOP IN COMMUNICATION****1-5 Credit Hours**

(Repeatable for credit) Content varies per workshop course. No more than three credits may be counted as part of the upper-division credits required in the Communication Studies major.

**Prerequisite:** None.

**Schedule Type:** Workshop

**Contact Hours:** 1-5 other

**Grade Mode:** Satisfactory/Unsatisfactory

**COMM 45095 SPECIAL TOPICS IN COMMUNICATION STUDIES 1-6 Credit Hours**

(Repeatable for credit) (Slashed with COMM 55095 and COMM 75095) Offered when unusual resources permit a topic different from existing courses. Topic will be announced when scheduled.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 1-6 lecture

**Grade Mode:** Satisfactory/Unsatisfactory

**COMM 45196 INDEPENDENT STUDY: COMMUNICATION STUDIES 1-6 Credit Hours**

(Repeatable for a maximum of 6 credit hours) Readings and/or research on problems approved by undergraduate coordinator in consultation with student's adviser and faculty project director.

**Prerequisite:** Minimum C grade in COMM 20000; minimum 2.000 overall GPA; and junior standing; and special approval.

**Schedule Type:** Individual Investigation

**Contact Hours:** 6 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**COMM 45459 COMMUNICATION AND CONFLICT 3 Credit Hours**

(Slashed with COMM 55459) Examination of issues related to managing conflict in communication. Critique and synthesis of conceptual approaches and research pertaining to conflict in relational and workplace communication settings.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**COMM 45660 POLITICAL COMMUNICATION 3 Credit Hours**

This course will provide an overview of the vast array of research concerning the role of communication in the political process. Considerations of political communication will include the history of political communication, the role of media in politics, the analysis of political messages, contemporary campaigns in the role of communication in their successes and failures.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**COMM 45678 SOCIAL MEDIA AND GLOBALIZATION 3 Credit Hours**

The course introduces students to social media and how they operate in a globalized context. Through the relevant literature, students will be able to use key theoretical tools to understand and critically analyze implications of globalization and social media on issues related to communication, social inequalities, citizenship, and youth cultures. The students will navigate the relationship between globalization and social media processes through practical examples including media texts, audiovisual material, social media content, etc. In class, the students will be expected to fully engage in discussions and group activities designed to emphasize their individual, professional, and academic growth.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**COMM 45684 COMMUNICATION TRENDS, RISKS AND WARNINGS 3 Credit Hours**

Recognizing and exploring the role of communicators in building new and deeper public understanding of critical, pervasive, and enduring human problems across conventional borders.

**Prerequisite:** None.

**Schedule Type:** Seminar

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**COMM 45756 INTERNATIONAL COMMUNICATION 3 Credit Hours**

International Communication (IC) maps out global communication systems from contemporary and historical perspectives, particularly as they relate to issues of social justice. The course deals with four overarching themes: [a] ideologies, theories and foundation; [b] commodities, markets and industries; [c] audiences, identities, and culture; and [d] ICTs, networks, and activism. Specifically, IC examines international information flows, comparative media systems, media ownership structures, commons, international reporting, global advertising, modes of propaganda, televangelism, mediated sports, digital surveillance, and electronic waste, among others. IC offers the opportunity to critically examine our posture, individually and collectively, in the production, distribution and consumption of content, and how this translates into the construction of images and identities of ourselves and global publics.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**COMM 45760 MEDIA, NATIONALISM AND GLOBALIZATION 3 Credit Hours**

Media, Nationalism and Globalization examines connections and tensions between the forces of nationalism and the forces of globalization and explores the role of the media and consumer culture in the current context of capitalism.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter



**COMM 45766 COMMUNICATION IN A GLOBAL SOCIETY 3 Credit Hours**

Offers a broad-based treatment of a variety of topics in our 'globalizing' world from the standpoint of communication. Considers the importance of communication on multiple levels of the international landscape, ranging from the very ways globalization is defined and framed to new communication media and networks, to campaigns and debates about global issues, and including the transformation of organizational and institutional relationships as well as local-to-global interactions.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**COMM 45776 COMMUNICATION AND TERRORISM 3 Credit Hours**

This course examines many facets of terrorism, including its historic roots and its social, political, ethnic, geographic, moral and spiritual causes. Students will be challenged to understand basic definitions of terrorism and think beyond conventional assumptions about terrorist organizations, especially assumptions derived from mass media, popular culture and Western biases. We will examine two central premises: first, that communication – spoken/written, traditional/nontraditional, public/private, visual/symbolic – is both a tool and the goal of organized terrorism; and second, that terrorist organizations use brand-positioning strategies we often associate with commercial entities. Students will be required to think deeply, critically and objectively about the narratives, messages, images and symbolism used by past and present-day terrorist movements.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**COMM 45807 HIGH IMPACT PROFESSIONAL SPEAKING 3 Credit Hours**

Principles and practices of effective communication in a variety of professional contexts. Emphasis on professional presentation skills development.

**Prerequisite:** COMM 15000; and junior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**COMM 45865 ORGANIZATIONAL COMMUNICATION TRAINING AND DEVELOPMENT 3 Credit Hours**

Theory and application of diagnosing communication problems in an organization and the intervention process.

**Prerequisite:** COMM 35864.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**COMM 45902 COMMUNICATION AND INFLUENCE (WIC) 3 Credit Hours**

Explores theories and strategies of social influence in contemporary society. Students discuss and critique influential communication practices such as interpersonal persuasion, product and services advertisements, social movements and political messages.

**Prerequisite:** Minimum C grade in COMM 21000 or ENG 31001; and minimum 2.000 overall GPA.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Writing Intensive Course

**COMM 45903 COMMUNICATION CAMPAIGNS (ELR) 3 Credit Hours**

The primary purpose of this course is to enable students to understand the fundamentals of how persuasive communication campaigns are developed, implemented, and evaluated.

**Prerequisite:** COMM 45902.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Experiential Learning Requirement

**COMM 45957 LANGUAGE, MEANING AND COGNITION 3 Credit Hours**

Overview of language use in social contexts, including basic components of language production; semantics; pragmatics (speech acts); the production and comprehension of sentences; message production; message comprehension; language and society (conversational rules; coherence); individual differences in language use (adaptive ability, gender differences); powerful vs. powerless speech; and intercultural considerations.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**COMM 45959 NONVERBAL COMMUNICATION 3 Credit Hours**

Survey of theory and research in nonverbal codes of communication through readings, field study and classroom interaction.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**COMM 46091 SENIOR SEMINAR (ELR) 3 Credit Hours**

(Repeatable for credit) Senior Seminar is an advanced level course that features current topics in communication and is driven by problem-analysis and a search for solutions. In-depth exploration and analysis of a communication issue is an opportunity for students to synthesize coursework and communication experiences into transferable skills and applications. A summative experience, this course may result in a research project or paper, portfolio, multimedia presentation, community-based initiative, and or a public presentation. Topics vary based on faculty expertise and research interests. The Senior Seminar course is applied and experiential.

**Prerequisite:** Minimum C grade in COMM 20000; and minimum 2.000 overall GPA; and senior standing.

**Schedule Type:** Seminar

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**Attributes:** Experiential Learning Requirement

**COMM 46503 HEALTH COMMUNICATION AND MEDIA 3 Credit Hours**

Investigation of health messages in traditional and new media, including both incidental communication and planned campaigns.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**COMM 46507 EVERYDAY INTERPERSONAL COMMUNICATION AND HEALTH 3 Credit Hours**

Examination of the roles of everyday interpersonal communication in physical and psychosocial health and risk behavior.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**COMM 46601 RELATIONAL COMMUNICATION 3 Credit Hours**

Provides an exploration of theory and research about the interactions among individuals in relationships. Subtopics of the course include communication and the development, maintenance and dissolution of personal relationships; relationships across the life span; individual differences in relationships and relational processes, qualities, and outcomes.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**COMM 46605 COMMUNICATION ACROSS THE LIFESPAN (DIVD) 3 Credit Hours**

Explores common life stages (childhood, youth, midlife, and old age) and the transitioning of communication within and between these different stages of development. Sub-topics include life span communication and: family, friendships, social and gender role development, interpersonal conflict management, and the use of varied communication technologies facilitating human interaction across the life span.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Diversity Domestic

**COMM 46608 FAMILY COMMUNICATION 3 Credit Hours**

Examines the interactions among individuals in families. Sub-topics of the course include family communication and storytelling, identity, rules, conflict, intimacy, stress, external influences on family communication, and family communication and the media.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**COMM 55007 FREEDOM OF SPEECH 3 Credit Hours**

(Slashed with COMM 45007) Examines historic and contemporary instances relating to freedom of speech; study of limits, rights, responsibilities and socio-legal-rhetorical issues.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**COMM 55093 VARIABLE TITLE WORKSHOP IN COMMUNICATION STUDIES 1-6 Credit Hours**

(Repeatable for credit) Variable topic workshop in communication studies.

**Prerequisite:** Graduate standing.

**Schedule Type:** Workshop

**Contact Hours:** 1-6 other

**Grade Mode:** Satisfactory/Unsatisfactory

**COMM 55095 SPECIAL TOPICS 1-4 Credit Hours**

(Repeatable for credit) (Slashed with COMM 45095 and COMM 75095)

Offered when resources permit a topic different from existing courses.

Topic will be announced when scheduled.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 1-4 lecture

**Grade Mode:** Standard Letter

**COMM 55459 COMMUNICATION AND CONFLICT 3 Credit Hours**

(Slashed with COMM 45459) Examination of issues related to managing conflict in communication. Critique and synthesis of conceptual approaches and research pertaining to conflict in interpersonal, organizational and public communication settings.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**COMM 55766 COMMUNICATION IN A GLOBAL SOCIETY 3 Credit Hours**

(Slashed with COMM 45766) Offers a broad-based treatment of a variety of topics in our 'globalizing' world from the standpoint of communication. Considers the importance of communication on multiple levels of the international landscape, ranging from the very ways globalization is defined and framed to new communication media and networks, to campaigns and debates about global issues, and including the transformation of organizational and institutional relationships as well as local-to-global interactions.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**COMM 60199 THESIS I 2-6 Credit Hours**

Thesis student must register for a total of 6 hours, 2 to 6 hours in a single semester or distributed over several semesters if desired.

**Prerequisite:** Graduate standing.

**Schedule Type:** Masters Thesis

**Contact Hours:** 2-6 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**COMM 60299 THESIS II 2 Credit Hours**

Thesis students must continue registration each semester until all degree requirements are met.

**Prerequisite:** COMM 60199; and graduate standing.

**Schedule Type:** Masters Thesis

**Contact Hours:** 2 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**COMM 61198 MASTERS PROJECT IN COMMUNICATION STUDIES 3 Credit Hours**

One of the non-thesis options for graduation. Students propose a theory-driven applied research project on a communicative phenomenon or issue. The final written paper is evaluated by the students' academic advisor and the Graduate Coordinator to deem satisfactory for graduation.

**Prerequisite:** COMM 65000 and COMM 65020 and COMM 65652.

**Schedule Type:** Research

**Contact Hours:** 3 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**COMM 64092 MASTERS INTERNSHIP IN COMMUNICATION STUDIES**  
**3 Credit Hours**

(Repeatable for credit) One of the non-thesis options for graduation. Students choose and secure an internship position with a designated organization or agency that requires the student to utilize communication skills and knowledge. Students complete 135 hours of internship. The employer, the academic advisor, and the Graduate Coordinator evaluate the student's overall performance. The advisor and the Graduate Coordinator determine whether the student complete the requirements.

**Prerequisite:** COMM 65000 and COMM 65020 and COMM 65652; and graduate standing; and special approval.

**Schedule Type:** Practical Experience

**Contact Hours:** 3 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**COMM 65000 FOUNDATIONS OF COMMUNICATION INQUIRY** 3  
**Credit Hours**

(Slashed with COMM 75000) Philosophy of science, epistemological and theory construction principles which are the foundation of inquiry into the process of communication.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**COMM 65020 QUANTITATIVE RESEARCH METHODS IN COMMUNICATION** 3  
**Credit Hours**

(Slashed with COMM 75020) An examination of basic quantitative social scientific research methods and procedures for the study of communication.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**COMM 65040 QUALITATIVE RESEARCH METHODS IN COMMUNICATION** 3  
**Credit Hours**

Exploration of qualitative methods in human communication research. Focus on the nature of qualitative data participant observation, and archival strategies of data collection and interpretive and interactionist approaches to data analysis.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**COMM 65060 COMMUNICATION MEASUREMENT AND ANALYSIS** 3  
**Credit Hours**

(Slashed with COMM 75060) A survey of self-report, observational and psychological instruments used in communication research. Uses of the computer in analyzing data obtained in communication research.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**COMM 65091 SEMINAR IN PERSUASION** 3,4  
**Credit Hours**

(Repeatable for credit) (Slashed with COMM 75091) Examination of selected areas of persuasion research. Emphasis on synthesizing research results and formulating explanatory models of persuasive behavior.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Seminar

**Contact Hours:** 3-4 other

**Grade Mode:** Standard Letter

**COMM 65093 VARIABLE TITLE WORKSHOP IN COMMUNICATION**  
**1-6 Credit Hours**

(Repeatable for credit) Variable topic workshop in communication studies.

**Prerequisite:** Graduate standing.

**Schedule Type:** Workshop

**Contact Hours:** 1-6 other

**Grade Mode:** Satisfactory/Unsatisfactory

**COMM 65096 INDIVIDUAL INVESTIGATION** 1-6  
**Credit Hours**

(Repeatable for a maximum of 6 credit hours) (Slashed with COMM 75096) Independent study of area or problem to be selected in consultation with graduate staff.

**Prerequisite:** Graduate standing.

**Schedule Type:** Individual Investigation

**Contact Hours:** 1-6 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**COMM 65098 RESEARCH** 1-15  
**Credit Hours**

(Repeatable for credit) Research or individual investigation for master's level graduate students. Credits may be applied toward meeting degree requirements if school approves.

**Prerequisite:** Graduate standing.

**Schedule Type:** Research

**Contact Hours:** 1-15 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**COMM 65591 SEMINAR IN SMALL GROUP COMMUNICATION** 3,4  
**Credit Hours**

(Repeatable for credit) (Slashed with COMM 75591) Research theories and findings in small group communication.

**Prerequisite:** Graduate standing.

**Schedule Type:** Seminar

**Contact Hours:** 3-4 other

**Grade Mode:** Standard Letter

**COMM 65652 THEORIES OF COMMUNICATION** 3  
**Credit Hours**

(Slashed with COMM 75652) Introduction to approaches in the study of human communication. Focuses on differing views of interaction from theory building and research-generation perspective.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**COMM 65660 POLITICAL COMMUNICATION** 3  
**Credit Hours**

(Slashed with COMM 75660) (Crosslisted with JMC 65660) An examination of political communication theory and research. Content includes approaches to political communication, role of the media in politics and analysis of political messages.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**COMM 65661 COMMUNICATION IN AN INFORMATION SOCIETY** 3  
**Credit Hours**

(Slashed with COMM 75661) Examines how the development and use of newer communication technologies have influenced human communication. Considers the evolution, social and psychological impact, and culture of newer communication technologies such as the Internet, and how research adapts to these newer media.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**COMM 65662 MASS MEDIA EFFECTS 3 Credit Hours**

(Slashed with COMM 75662) Examines perspectives on media effects, the impact media have on individuals and societies, and how individual, societal and communication elements influence media uses and effects. Explores issues such as media portrayals, campaigns, violence and children and the media.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**COMM 65665 PERSONAL AND MEDIATED COMMUNICATION 3 Credit Hours**

(Slashed with COMM 75665) Examination of the interface of interpersonal and mediated communication in everyday life. Includes topics such as parasocial interaction, talk radio, TV co-viewing, cell phones, teleconferencing, computer-mediated relationships and media portrayals.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**COMM 65670 INTERPERSONAL COMMUNICATION 3 Credit Hours**

(Slashed with COMM 75670) Survey of recent theoretical developments and research in interpersonal communication. Topics include relationship development, interaction, interpersonal traits, compliance, conversational analysis and research methods.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**COMM 65673 FAMILY COMMUNICATION 3 Credit Hours**

(Slashed with COMM 85673) Family Communication examines the study of theory and research about the interactions among individuals in families. The course also examines how families interact with external entities. Finally, the course explores health communication, media uses or new communication technologies and work-life balance issues from a family communication perspective.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**COMM 65675 COMMUNICATION, UNCERTAINTY AND PRIVACY MANAGEMENT 3 Credit Hours**

(Slashed with COMM 85675) Communication, uncertainty, and the management of private information examines theory and research about disclosure and uncertainty issues in communication in a variety of contexts. Course content examines disclosure and uncertainty management applications in relational contexts, health contexts, organizational contexts, and contexts involving human interaction occurring through technology.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**COMM 65677 RELATIONAL COMMUNICATION 3 Credit Hours**

(Slashed with COMM 85677) Relational communication provides an exploration of theory and research about the interactions among individuals in personal relationships. Subtopics of the course include communication and the development, maintenance, and dissolution of personal relationships, relationships across the life span, individual differences in relationships and relational processes, qualities and outcomes.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**COMM 65679 COMMUNICATION ACROSS THE LIFESPAN 3 Credit Hours**

(Slashed with COMM 85679) Overview of research examining communication across the lifespan, including issues related to communication and cognition, communicative uses of language, communication in close relationships and differences in media uses and effects.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**COMM 65680 INTERCULTURAL/INTERNATIONAL COMMUNICATION 3 Credit Hours**

Examination of theoretical perspectives, research issues and the rhetorical analyses of intercultural and international communication.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**COMM 65683 INTERGROUP COMMUNICATION 3 Credit Hours**

(Slashed with COMM 85683) Overview of theory and research of communication between groups of individuals, including issues of discrimination, language, identity, social status, religion and demographics.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**COMM 65684 COMMUNICATION AND TRANSNATIONAL TREND ANALYSIS 3 Credit Hours**

Recognizes and explores the role of communicators in building new and deeper public understanding of critical, pervasive and enduring human problems across conventional borders.

**Prerequisite:** Graduate standing.

**Schedule Type:** Seminar

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**COMM 65685 COMMUNICATION AND COGNITION 3 Credit Hours**

(Slashed with COMM 85685) Application of cognitive theory and research findings to understanding and explaining message production, interpersonal communication, individual differences in adaptive ability, persuasion, political communication, media processing and media effects.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter



**COMM 65766 COMMUNICATION IN A GLOBAL SOCIETY 3 Credit Hours**

Overview of, analysis of, and critical reflection on topics and issues related to globalization, largely from a communication perspective yet drawing from other disciplines, and including topics such as framing and narratives of globalization and fragmentation, images of national and 'civilizational' identity, discourses of marketization and consumerism, organizational communication dynamics of 'the anti-globalization movement' and 'globalization from below,' definitions and frameworks of security, symbols of war and peace, debates over corporate social responsibility, frames of environmental sustainability, the roles of new media in alternative organizational and institutional formation, and understanding global problems in terms of communication networks. Contributes to the core curriculum for the global communication concentration in the MA program in COMM. Open to PhD students in CCI, plus other masters students within CCI.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**COMM 65794 TEACHING OF COLLEGE COMMUNICATION 3 Credit Hours**

(Repeatable for credit) (Slashed with COMM 75794) Training and experience in college teaching. Maximum of three hours applicable toward master's degree requirements.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**COMM 65851 ORGANIZATIONAL COMMUNICATION 3 Credit Hours**

(Slashed with COMM 75851) Structure, methodology and application of communication theory in industrial and organizational settings.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**COMM 65891 SEMINAR IN ORGANIZATIONAL COMMUNICATION 3,4 Credit Hours**

(Repeatable for credit) Theories and problems of human communication within, between and/or among formal organizations.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Seminar

**Contact Hours:** 3-4 other

**Grade Mode:** Standard Letter

**COMM 66501 HEALTH COMMUNICATION 3 Credit Hours**

(Slashed with COMM 86501) Investigation of the role of communication theory, research and practice in health beliefs and behavior, health care and health promotion.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**COMM 66503 HEALTH COMMUNICATION AND MEDIA EFFECTS 3 Credit Hours**

(Slashed with COMM 86503) Overview of theory and research on the processing and effects of health messages in the media.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**COMM 66506 HEALTH COMMUNICATION AND NEW MEDIA 3 Credit Hours**

(Slashed with COMM 86506) Investigation of the implementation and effects of new media technologies and their implications for health communication.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**COMM 66507 INTERPERSONAL COMMUNICATION AND HEALTH 3 Credit Hours**

(Slashed with COMM 86507) Investigation of the interpersonal communication processes that influence and/or are influenced by health and health contexts.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**COMM 66508 HEALTH COMMUNICATION LITERACY 3 Credit Hours**

(Slashed with COMM 86508) Investigation of the concept and consequences of communication as it relates to health literacy, including social, cultural, educational and political forces that affect health literacy levels and strategies for creating accessible health communication.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**COMM 66509 PUBLIC COMMUNICATION CAMPAIGNS 3 Credit Hours**

(Slashed with COMM 86509) Overview of the major issues surrounding the development, dissemination and effects of public communication campaigns.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**COMM 75000 FOUNDATIONS OF COMMUNICATION INQUIRY 3 Credit Hours**

(Slashed with COMM 65000) Philosophy of science, epistemological and theory construction principles which are the foundation of inquiry into the process of communication.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**COMM 75020 QUANTITATIVE RESEARCH METHODS IN COMMUNICATION 3 Credit Hours**

(Slashed with COMM 65020) An examination of basic quantitative social scientific research methods and procedures for the study of communication.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter



**COMM 75040 QUALITATIVE RESEARCH METHODS IN COMMUNICATION 3 Credit Hours**

(Slashed with COMM 65040) Exploration of qualitative methods in human communication research. Focus on the nature of qualitative data, participant observation and archival strategies of data collection and interpretive and interactionist approaches to data analysis.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**COMM 75060 COMMUNICATION MEASUREMENT AND ANALYSIS 3 Credit Hours**

(Slashed with COMM 65060) A survey of self-report, observational and psychological instruments used in communication research. Uses of the computer in analyzing data obtained in communication research.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**COMM 75091 SEMINAR IN PERSUASION 3,4 Credit Hours**

(Repeatable for credit) (Slashed with COMM 65091) Examination of selected areas of persuasion research. Emphasis on synthesizing research results and formulating explanatory models of persuasive behavior.

**Prerequisite:** Doctoral standing; and special approval.

**Schedule Type:** Seminar

**Contact Hours:** 3-4 other

**Grade Mode:** Standard Letter

**COMM 75093 VARIABLE TITLE WORKSHOP IN COMMUNICATION STUDIES 1-6 Credit Hours**

(Repeatable for credit) Variable title workshop in communications.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Workshop

**Contact Hours:** 1-6 other

**Grade Mode:** Satisfactory/Unsatisfactory

**COMM 75095 SPECIAL TOPICS 1-4 Credit Hours**

(Repeatable for credit) (Slashed with COMM 45095 and COMM 55095)

Offered when resources permit a topic different from existing courses.

Topic will be announced when scheduled.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 1-4 lecture

**Grade Mode:** Standard Letter

**COMM 75096 INDIVIDUAL INVESTIGATION 1-6 Credit Hours**

(Repeatable for credit) (Slashed with COMM 65096) Independent study of area or problem to be selected in consultation with graduate staff.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Individual Investigation

**Contact Hours:** 1-6 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**COMM 75591 SEMINAR IN SMALL GROUP COMMUNICATION 3,4 Credit Hours**

(Repeatable for credit) (Slashed with COMM 65591) Research theories and findings in small group communication.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Seminar

**Contact Hours:** 3-4 other

**Grade Mode:** Standard Letter

**COMM 75652 THEORIES OF COMMUNICATION 3 Credit Hours**

(Slashed with COMM 65652) Introduction to approaches in the study of human communication. Focuses on differing views of interaction from theory building and research generation perspective.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**COMM 75660 POLITICAL COMMUNICATION 3 Credit Hours**

(Slashed with COMM 65660 and COMM 75660) An examination of political communication theory and research. Content includes approaches to political communication, role of the media in politics and analysis of political messages.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**COMM 75661 COMMUNICATION IN AN INFORMATION SOCIETY 3 Credit Hours**

(Slashed with COMM 65661) Examines how the development and use of newer communication technologies have influenced how people communicate. Considers the evolution, social and psychological impact and culture of newer communication technologies (especially the Internet) and how research adapts to such technologies.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**COMM 75662 MASS MEDIA EFFECTS 3 Credit Hours**

(Slashed with COMM 65662) Examines perspectives on media effects, the impact media have on individuals and societies and how individual, societal and communication elements influence media uses and effects. Explores issues such as media portrayals, campaigns, violence and children and the media.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**COMM 75665 PERSONAL AND MEDIATED COMMUNICATION 3 Credit Hours**

(Slashed with COMM 65665) Examination of the interface of interpersonal and mediated communication in everyday life. Includes topics such as parasocial interaction, talk radio, TV co-viewing, cell phones, teleconferencing, computer-mediated relationships and media portrayals.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**COMM 75670 INTERPERSONAL COMMUNICATION 3 Credit Hours**

(Slashed with COMM 65670) Survey of recent theoretical developments and research in interpersonal communication. Topics include relationship development, interaction, interpersonal traits, compliance, conversational analysis and research methods.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**COMM 75680 INTERCULTURAL/INTERNATIONAL COMMUNICATION 3 Credit Hours**

Examination of theoretical perspectives, research issues and the rhetorical analyses of intercultural and international communication.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**COMM 75794 TEACHING OF COLLEGE COMMUNICATION 3 Credit Hours**

(Repeatable for credit) (Slashed with COMM 65794) Training and experience in college teaching. Maximum of three hours applicable toward doctoral degree requirements.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**COMM 75851 ORGANIZATIONAL COMMUNICATION 3 Credit Hours**

(Slashed with COMM 65851) Structure, methodology and application of communication theory in industrial and organizational settings.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**COMM 75891 SEMINAR IN ORGANIZATIONAL COMMUNICATION 3,4 Credit Hours**

(Repeatable for credit) Theories and problems of human communication within, between and/or among formal organizations.

**Prerequisite:** Doctoral standing; and special approval.

**Schedule Type:** Seminar

**Contact Hours:** 3-4 other

**Grade Mode:** Standard Letter

**COMM 80199 DISSERTATION I 15 Credit Hours**

(Repeatable for credit) Doctoral dissertation for which registration in at least two semesters is required, first of which will be semester in which dissertation work is begun and continuing until the completion of 30 hours.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Dissertation

**Contact Hours:** 15 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**COMM 80299 DISSERTATION II 15 Credit Hours**

(Repeatable for credit) Continuing registration required of doctoral students who have completed the initial 30 hours of dissertation and continuing until all degree requirements are met.

**Prerequisite:** COMM 80199; and doctoral standing.

**Schedule Type:** Dissertation

**Contact Hours:** 15 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**COMM 85098 RESEARCH 1-15 Credit Hours**

(Repeatable for credit) Research or individual investigation for doctoral students who have not yet passed their candidacy examination. Credits may be applied toward degree if school approves.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Research

**Contact Hours:** 1-15 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**COMM 85673 FAMILY COMMUNICATION 3 Credit Hours**

(Slashed with COMM 65673) Family Communication examines the study of theory and research about the interactions among individuals in families. The course also examines how families interact with external entities. Finally, the course explores health communication, media uses or new communication technologies and work-life balance issues from a family communication perspective.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**COMM 85675 COMMUNICATION, UNCERTAINTY AND PRIVACY MANAGEMENT 3 Credit Hours**

(Slashed with COMM 65675) Communication, uncertainty and the management of private information examines theory and research about disclosure and uncertainty issues in communication in a variety of contexts. Course content examines disclosure and uncertainty management applications in relational contexts, health contexts, organizational contexts, and contexts involving human interaction occurring through technology.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**COMM 85677 RELATIONAL COMMUNICATION 3 Credit Hours**

(Slashed with COMM 65677) Relational communication provides an exploration of communication theory and research about the interactions among individuals in personal relationships. Subtopics of the course include communication and the development, maintenance, and dissolution of personal relationships, relationships across the life span, individual differences in relationships and relational processes, qualities and outcomes.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**COMM 85679 COMMUNICATION ACROSS THE LIFESPAN 3 Credit Hours**

(Slashed with COMM 65679) Overview of research examining communication across the lifespan, including issues related to communication and cognition, communicative uses of language, communication in close relationships and differences in media uses and effects.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**COMM 85683 INTERGROUP COMMUNICATION 3 Credit Hours**

(Slashed with COMM 65683) Overview of theory and research of communication between groups of individuals, including issues of discrimination, language, identity, social status, religion and demographics.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**COMM 85685 COMMUNICATION AND COGNITION 3 Credit Hours**  
(Slashed with COMM 65685) Application of cognitive theory and research findings to understanding and explaining message production, interpersonal communication, individual differences in adaptive ability, persuasion, political communication, media processing and media effects.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**COMM 85766 COMMUNICATION IN A GLOBAL SOCIETY 3 Credit Hours**

Overview of, analysis of, and critical reflection on topics and issues related to globalization, largely from a communication perspective yet drawing from other disciplines, and including topics such as framing and narratives of globalization and fragmentation, images of national and 'civilizational' identity, discourses of marketization and consumerism, organizational communication dynamics of 'the anti-globalization movement' and 'globalization from below,' definitions and frameworks of security, symbols of war and peace, debates over corporate social responsibility, frames of environmental sustainability, the roles of new media in alternative organizational and institutional formation, and understanding global problems in terms of communication networks. Open to graduate students in and outside the College of Communication and Information who are interested in international dimensions of communication.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**COMM 86501 HEALTH COMMUNICATION 3 Credit Hours**

(Slashed with COMM 66501) Investigation of the role of communication theory, research and practice in health beliefs and behavior, health care and health promotion.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Seminar

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**COMM 86503 HEALTH COMMUNICATION AND MEDIA EFFECTS 3 Credit Hours**

(Slashed with COMM 66503) Overview of theory and research on the processing and effects of health messages in the media.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**COMM 86506 HEALTH COMMUNICATION AND NEW MEDIA 3 Credit Hours**

(Slashed with COMM 66506) Investigation of the implementation and effects of new media technologies and their implications for health communication.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**COMM 86507 INTERPERSONAL COMMUNICATION AND HEALTH 3 Credit Hours**

(Slashed with COMM 66507) Investigation of the interpersonal communication processes that influence and/or are influenced by health and health contexts.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**COMM 86508 HEALTH COMMUNICATION LITERACY 3 Credit Hours**

(Slashed with COMM 66508) Investigation of the concept and consequences of communication as it relates to health literacy, including social, cultural, educational, and political forces that affect health literacy levels, and strategies for creating accessible health communication.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**COMM 86509 PUBLIC COMMUNICATION CAMPAIGNS 3 Credit Hours**

(Slashed with COMM 66509) Overview of the major issues surrounding the development, dissemination, and effects of public communication campaigns.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

## Community Medicine (CMD)

**CMD 80326 PUBLIC HEALTH ADMINISTRATION 3 Credit Hours**

Public health administration comprises efforts to improve the health of communities. This course provides an overview for public health administration and practice, including organization, law, legislative relations, financing, workforce issues, leadership, and surveillance.

**Prerequisite:** Student must be enrolled in the Podiatric Medicine program.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CMD 80327 HEALTHCARE LAW AND REGULATION 3 Credit Hours**

Healthcare is one of the most heavily regulated industries in the United States. In order to contain spiraling costs, the federal and state governments are focusing on the individual provider conduct in the context of fraud, waste and abuse scrutiny. This course covers the underlying theories behind healthcare law and regulations as well as the specific provisions affecting the organization, delivery, and payment of primary health services. Administrators and clinicians will gain a basic understanding of the regulatory environment and provisions impacting their practice.

**Prerequisite:** Student must be enrolled in the Podiatric Medicine program.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

## Computer Information Systems (CIS)

### CIS 24053 INTRODUCTION TO COMPUTER APPLICATIONS 3 Credit Hours

(Equivalent to IT 11000) Develop competency in the operation of contemporary software and hardware applications. To develop an appreciation for the contribution of computers, software and the Internet to society.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** TAG Business

### CIS 24065 WEB PROGRAMMING 3 Credit Hours

Principles of visual design as applied to Web site interface development. The course exposes students to the basics of programming and relational database and how to develop a Web-based database driven interactive information system.

**Prerequisite:** CIS 24053.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture, 2 lab

**Grade Mode:** Standard Letter

### CIS 24093 VARIABLE TITLE WORKSHOP IN MANAGEMENT AND INFORMATION SYSTEMS 1-6 Credit Hours

(Repeatable for credit) Special workshop in management and information systems. Credits depend on scope of project.

**Prerequisite:** Special approval.

**Schedule Type:** Workshop

**Contact Hours:** 1-6 other

**Grade Mode:** Satisfactory/Unsatisfactory

### CIS 24165 CLOUD SYSTEMS COMPUTING 3 Credit Hours

This course explores the history, current state, and projected future of cloud approach to providing computing resources. Almost all new startups today use "the cloud" because it allows fast time to market, flexibility, and the ability to "test" new ideas and product offerings very quickly. Kent State even uses this approach for things like student email and Blackboard. Most existing companies realize the "cloud" is in their future; the goal of the course is to expose students to the knowledge they need to be able to help their future employers with cloud migration.

**Prerequisite:** Minimum C+ grade in CIS 24053.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

### CIS 24167 CLOUD INFRASTRUCTURE AND APPLICATIONS 3 Credit Hours

Information systems is critical to the efficient operation of any organization today, such as in hiring employees, performing background checks, ordering/creating products, transacting businesses, and providing follow-up services, among others. These can be large "integrated systems" or ERPs or loose collection of "Apps." This class explores the various alternatives available today and the likely future of new products in the future. Different viewpoints and debates will be explored in the class with opportunities for students to discuss and present their thoughts.

**Prerequisite:** Minimum C+ grade in CIS 24053; and minimum 2.500 overall GPA.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

### CIS 34032 DATA AND FILE TECHNOLOGY 3 Credit Hours

An introduction to file architecture and data base management systems. The application of these technologies is detailed.

**Prerequisite:** CIS 34068.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

### CIS 34034 BUSINESS MODELING AND AGILE DESIGN 3 Credit Hours

Introduction to methods, tools, and techniques used to analyze and develop information systems, with emphasis on application of methods and concepts to real-world problems. The course is the cornerstone upon which all subsequent IS activities are based. Skills developed in the course would have immediate applicability for IS students and help non-IS students gain knowledge they need to appreciate the role of IS in their organization, so they can better understand how to manage and support IS-related projects.

**Prerequisite:** Minimum 2.500 overall GPA.

**Pre/corequisite:** CIS 24167.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

### CIS 34036 ENTERPRISE SYSTEMS AND BUSINESS PROCESSES 3 Credit Hours

Overview of the basics of business processes and Enterprise Resource Planning systems solutions in the cloud. The course prepares students for business process and other cloud related courses, with hands-on experience with a professional ERP system such as SAP. Topics covered include data navigation, client server systems, virtualization, database, security, accounting and procurement processes, and ERP simulation games.

**Prerequisite:** CIS 34034; and minimum 2.500 overall GPA.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

### CIS 34045 SMALL SYSTEMS TECHNOLOGY 3 Credit Hours

An examination of the role of small computer systems within an organization's information systems environment.

**Prerequisite:** CIS 34068.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

### CIS 34068 SYSTEMS ANALYSIS AND DESIGN 3 Credit Hours

This is an introductory course in Systems Analysis and Design. Students will be presented with the concepts, techniques, and methodologies that are required for the successful development of information systems. Application of methods and concepts to real-world problems will be emphasized.

**Prerequisite:** Minimum C grade in CIS 24053 or IT 11000; and minimum C grade in the following courses CIS 24065, ENG 21011, COMM 15000 and MATH 11010; and minimum 2.500 overall GPA.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter



**CIS 34070 PROGRAMMING THEORY AND APPLICATIONS 3 Credit Hours**

Programming in a strongly-typed language environment with an emphasis on problem-solving.

**Prerequisite:** Minimum C grade in CIS 24053 and CIS 24065; and minimum 2.500 overall GPA.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CIS 34080 COMPUTER PROGRAMMING FOR BUSINESS I 3 Credit Hours**

Introduces a programming language currently used in business and industry for data processing, decision making and other information systems applications.

**Prerequisite:** CIS 34070.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CIS 34167 CREATING INTUITIVE SYSTEMS 3 Credit Hours**

The process of creating products that are intuitive, simple, useful and easy-to-use is difficult and always evolving. However, organizations such as Apple Incorporated and Google that can adopt this approach to product or service development are often on top of their industry. This course will explore this process, its value and how to make it work to help a business prosper and thrive in today's highly competitive market and short product lifecycles.

**Prerequisite:** Minimum C+ grade in CIS 24053; and minimum 2.500 overall GPA.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CIS 34170 TECHNOLOGY BOOTCAMP 3 Credit Hours**

The course covers important current topics and innovations in information system technologies. Students are taught to develop skills that help them to identify and investigate emerging important technologies and learn how to research and master them. Topics covered each semester will be different from those covered in past semesters, with examples of what were covered in the past.

**Prerequisite:** Minimum C+ grade in CIS 24053; and minimum 2.500 overall GPA.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CIS 44007 PROJECT MANAGEMENT AND TEAM DYNAMICS 3 Credit Hours**

Overview and hands-on experience of the principles, tools, and techniques of project management with emphasis on practical aspects of initiating, planning, executing, costing and closing out information systems related projects. The course begins with the Myers-Briggs personality inventory which will help in later class team exercises and uses the PMBOK. Students will work in teams to perform exercises that will help them learn team dynamics and leadership.

**Prerequisite:** Minimum C+ grade in CIS 24053; and minimum 2.500 overall 2.500 GPA.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CIS 44033 ADVANCED COMPUTER PROGRAMMING FOR BUSINESS 3 Credit Hours**

Covers Java programming language, including applications and applets, with emphasis on object-oriented programming. The course also emphasizes problem solving, developing systems, structured programming and programming style conventions.

**Prerequisite:** Minimum C grade in the following courses CIS 24053 and CIS 24065 and CIS 34070; and minimum 2.500 overall GPA.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CIS 44040 PROGRAMMING FOR THE CLOUD 3 Credit Hours**

Cloud development programming course that is based on the client-server architecture. The course begins with a review of HTML and CSS used to build the user interface. Document Object Model (DOM) is investigated as the basis for all web interfaces. Interface stylistic formatting is achieved by use of CSS, and JavaScript for interface in the web browser, while server-based language such as PHP and Python are used to process user actions. The course also introduces jQuery for interface animation.

**Prerequisite:** CIS 24165; and minimum 2.500 overall GPA.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CIS 44042 NETWORK THEORY AND APPLICATIONS 3 Credit Hours**

Presentation of current and emerging network technologies and services in business applications and performance issues. Topics include transmission media, modulation and signaling schemes, switching and multiplexing techniques, local and wide area network protocols and standards, and internetworking devices.

**Prerequisite:** Minimum C grade in CIS 24053 and CIS 24065; and minimum overall 2.500 GPA.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CIS 44043 DATA MANAGEMENT AND BUSINESS INTELLIGENCE I 3 Credit Hours**

The processing, storage, retrieval, manipulation, and management of often massive and complex business data is an essential part of most information systems. This course will expose students to key database concepts such data integrity, conceptual and logical data modeling, and structured query language (SQL). Some of the SQL skills include data definition language (DDL), data manipulation language (DML), transaction control concepts, joins, grouping, and subqueries. The course will also introduce database management concepts related to managing users and physical storage space. Current and future database trends and issues will also be discussed including security, introduction to emerging topics in big data, data acquisition, analytics and visualization.

**Prerequisite:** CIS 44040; and minimum 2.500 overall GPA.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CIS 44044 SYSTEMS ANALYSIS II 3 Credit Hours**

Physical system implementation: mapping logical data models and process models to physical data bases and system design; system coding, testing, installation, conversion, training and automated tools.

**Prerequisite:** CIS 34068.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter



**CIS 44045 INFORMATION SYSTEMS MANAGEMENT 3 Credit Hours**

Management of information systems resources in organizations of all types and sizes; IT best practices; the effective and efficient use of IS in support of the organization's mission and to achieve competitive advantage in today's global economy; the impact of IT on enterprises, users, customers, society, and the environment.

**Prerequisite:** Minimum C grade in the following courses CIS 24053 and CIS 24065; minimum 2.500 overall GPA; and senior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CIS 44048 CLOUD SYSTEMS INTEGRATION (ELR) (WIC) 3 Credit Hours**

As a writing intensive course the primary objective is that students or team of students write and rewrite their reports to consistently produce high quality, clear, and to the point written and verbal communication with feedback from their instructor. Students participate as a member of a project development team that builds cloud-based information system using a cloud platform for a real client. To be completed successfully, the projects often require knowledge, content, and skills from all prior IS courses.

**Prerequisite:** Minimum 2.500 overall GPA.

**Pre/corequisite:** CIS 44043.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Experiential Learning Requirement, Writing Intensive Course

**CIS 44049 NETWORK MANAGEMENT AND CYBERSECURITY 3 Credit Hours**

The course explores technologies and business issues related to computer networking and security, with emphasis on the protocols in modern business networking such as Ethernet and TCP-IP. Topics also include cybersecurity threats and defenses, privacy, cloud and parallel computing, and map-reduce.

**Prerequisite:** Minimum C grade in the following courses CIS 24053 and CIS 24065; and minimum 2.500 overall GPA.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CIS 44093 VARIABLE TITLE WORKSHOP IN MANAGEMENT AND INFORMATION SYSTEMS 1-6 Credit Hours**

Repeatable for credit) Variable title workshop courses offered under management and information sciences.

**Prerequisite:** Minimum 2.500 overall GPA.

**Schedule Type:** Workshop

**Contact Hours:** 1-6 other

**Grade Mode:** Satisfactory/Unsatisfactory

**CIS 44095 SPECIAL TOPICS IN COMPUTER INFORMATION SYSTEMS 3 Credit Hours**

(Repeatable for credit) Offered on a semester basis with different CIS topics and different faculty involved each time the course is offered.

**Prerequisite:** Minimum 2.500 overall GPA; and junior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CIS 44140 APPLICATION DESIGN AND DEVELOPMENT 3 Credit Hours**

The focus of this course is about making apps for mobile and other devices. Techniques that permit apps to be developed and then used as native on Android and iOS platforms are covered, with emphasis on interface design, client programming, server programming, database use for storage and retrieval, and security. The Model-View-Controller (MVC) architecture is used as the basis for app development, including interface, programming and data management.

**Prerequisite:** CIS 44040; and minimum 2.500 overall GPA.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CIS 44243 DATA MANAGEMENT AND BUSINESS INTELLIGENCE II 3 Credit Hours**

The course explores advanced topics in the acquisition, management and use of data. The knowledge and skills presented in Data Management and Business Intelligence I, big data, data acquisition, analytics and visualization are extended with an emphasis on machine learning, artificial intelligence, and NoSQL. There is also an introduction to blockchain concept using software platforms.

**Prerequisite:** CIS 44043; and minimum 2.500 overall GPA.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CIS 44292 BUSINESS EXPERIENCE AND INTERNSHIP (ELR) 3 Credit Hours**

(Repeatable for credit) Learning by experience and practice in an IT related company. The course exposes students to the various areas and activities related to the information systems profession in a cooperating organization.

**Prerequisite:** Minimum C+ grade in CIS 24053; and minimum 2.500 overall GPA.

**Schedule Type:** Practical Experience

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**Attributes:** Experiential Learning Requirement

**CIS 44293 WORKSHOP IN PROFESSIONAL IS CERTIFICATION 3 Credit Hours**

Supervised workshop designed to help students pass at least one VMware, Microsoft or other vendors' professional certification credentials. The student chooses the exam to take, with the course providing a supported self-study opportunity to prepare for the exam.

**Prerequisite:** Minimum C+ grade in CIS 24053; and minimum 2.500 overall GPA.

**Schedule Type:** Workshop

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**CIS 44295 SPECIAL TOPICS IN INFORMATION SYSTEMS 3 Credit Hours**

(Repeatable for credit) Special topics course on newest advances in information systems technology and how they support business activities. New and emerging topics in information systems are presented in an experimental way, with the content of the course changing from one offering to the other.

**Prerequisite:** Minimum C+ grade in CIS 24053; and minimum 2.500 overall GPA.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

## Computer Science (CS)

### CS 10001 COMPUTER LITERACY 3 Credit Hours

Introduction to history, language, procedures, applications, abuses and impact of computers. Hands-on experience with microcomputers. Not open to students with previous experience.

**Prerequisite:** None.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

### CS 10051 INTRODUCTION TO COMPUTER SCIENCE (KMCR) 4 Credit Hours

An introductory, broad and hands-on coverage of aspects of computer science, including algorithms, problem solving, operating systems concepts, computer architecture, programming languages and modern applications. Three-credit lecture with one-credit lab.

**Prerequisite:** None.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 3 lecture, 1 lab

**Grade Mode:** Standard Letter

**Attributes:** Kent Core Mathematics and Critical Reasoning

### CS 10062 PROGRAMMING FOR PROBLEM SOLVING IN SCIENCES 4 Credit Hours

Solving problems in a science frequently requires a knowledge of programming. This course provides an introduction to using programs to solve problems. It is designed for majors and non-majors who have had little or no prior programming experience. The course emphasizes a hands-on, team-based approach to learning programming and problem solving.

**Prerequisite:** Minimum 55 ALEKS math score or minimum C grade in either MATH 11009 (or MATH 10772) or MATH 11010 (or MATH 10774 or MATH 10775 or MATH 10675).

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 3 lecture, 2 lab

**Grade Mode:** Standard Letter

### CS 13001 COMPUTER SCIENCE I: PROGRAMMING AND PROBLEM SOLVING 4 Credit Hours

Computer science concepts, including algorithm development and problem-solving strategies focused on procedural abstraction. High-level programming concepts, including data types, expressions, program structures, functions, parameter passing, scope, extent, arrays, introduction to recursion and an introduction to object oriented-concepts.

**Prerequisite:** Minimum C grade in MATH 11010.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 3 lecture, 3 lab

**Grade Mode:** Standard Letter

### CS 13011 COMPUTER SCIENCE IA: PROCEDURAL PROGRAMMING 2 Credit Hours

Computer science concepts, including algorithm development and problem-solving strategies focused on programming abstractions. High-level programming concepts, including variables, branching, iteration and functions.

**Prerequisite:** Minimum C grade in MATH 11010.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 1.5 lecture, 1.5 lab

**Grade Mode:** Standard Letter

### CS 13012 COMPUTER SCIENCE IB: OBJECT ORIENTED PROGRAMMING 2 Credit Hours

Computer science concepts, including algorithm development and problem-solving strategies focused on programming abstractions. High-level programming concepts, including introduction to recursion and an introduction to object oriented-concepts.

**Prerequisite:** Minimum C grade in CS 13011.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 1.5 lecture, 1.5 lab

**Grade Mode:** Standard Letter

### CS 13401 USER LEVEL COMPUTER SECURITY 3 Credit Hours

Introduction to computer and network safety; detection and removal of viruses, detection and defense against spyware and rootkits, firewall description and use, protection mechanisms against computer system hacking, spam, identity theft and phishing, protecting wireless networks, safe computing. Includes many in-lecture tutorials.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

### CS 19995 SPECIAL TOPICS IN COMPUTER SCIENCE 1-3 Credit Hours

(Repeatable for credit)Special topics from all areas of computer science.

**Prerequisite:** Permission.

**Schedule Type:** Lecture

**Contact Hours:** 1-3 lecture

**Grade Mode:** Standard Letter

### CS 23001 COMPUTER SCIENCE II: DATA STRUCTURES AND ABSTRACTION 4 Credit Hours

Advanced computer programming design, and development with a primary focus on data structures and abstraction using an object oriented programming language.

**Prerequisite:** Minimum C grade in CS 13001 or CS 13012.

**Corequisite:** CS 23022.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 3 lecture, 2 lab

**Grade Mode:** Standard Letter

### CS 23022 DISCRETE STRUCTURES FOR COMPUTER SCIENCE 3 Credit Hours

(Cross-listed with MATH 23022) Discrete structures for computer scientists with a focus on: mathematical reasoning, combinatorial analysis, discrete structures, algorithmic thinking, applications and modeling. Specific topics include logic, sets, functions, relations, algorithms, proof techniques, counting, graphs, trees, Boolean algebra, grammars and languages.

**Prerequisite:** Minimum C grade in MATH 11009 or MATH 11010.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

### CS 23301 ROBOTICS AND EMBEDDED SYSTEMS LABORATORY I 1 Credit Hour

This course provides a team based, hands-on introduction to linking and programming robotic and embedded systems. Students in this course work with junior and senior level students on projects building devices that require linking and programming robotic and embedded systems.

**Prerequisite:** Minimum C grade in CS 13001 or CS 13012.

**Schedule Type:** Laboratory

**Contact Hours:** 2 lab

**Grade Mode:** Standard Letter

**CS 23302 ROBOTICS AND EMBEDDED SYSTEMS LABORATORY II 2 Credit Hours**

This course is the second computer science course on linking and programming robotic and embedded systems in a team based, hands-on environment. Students in this course work with junior and senior level students on projects building devices that require linking and programming robotic and embedded systems.

**Prerequisite:** CS 23001 and CS 23301 with a minimum C grade.

**Schedule Type:** Laboratory

**Contact Hours:** 4 lab

**Grade Mode:** Standard Letter

**CS 27101 INTRODUCTION TO WEB INTERFACE DESIGN 3 Credit Hours**

Introduction to principles for the design and implementation of user-centered website interfaces, website interface evaluation, human computer interaction, effective data organization and manipulation and tools for website creation.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CS 29995 SPECIAL TOPICS IN COMPUTER SCIENCE 1-3 Credit Hours**

(Repeatable for credit) Special topics from all areas of computer science.

**Prerequisite:** Permission.

**Schedule Type:** Lecture

**Contact Hours:** 1-3 lecture

**Grade Mode:** Standard Letter

**CS 32301 HUMAN INTERFACE COMPUTING 3 Credit Hours**

Foundations of human computer interaction including interaction design. Foundations of graphics and visualization. Basic concepts in security and secure design including cryptography. Introduction to intelligent systems including basic knowledge representation and basic machine learning.

**Prerequisite:** Minimum C grade in CS 23001.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CS 33006 SOCIAL AND ETHICAL ISSUES IN COMPUTING (WIC) 3 Credit Hours**

Social issues, including historical and social context, professional responsibilities, risks and liabilities and intellectual property.

**Prerequisite:** Minimum C grade in CS 13001.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Writing Intensive Course

**CS 33007 INTRODUCTION TO DATABASE SYSTEM DESIGN 3 Credit Hours**

An introduction to the basic theoretical aspects of database systems, file organization, search methodologies, language design and performance evaluation techniques, initial modeling concepts and their use in hierarchical, network, relational and object-oriented database designs.

**Prerequisite:** Minimum C grade in CS 23001.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CS 33011 SPEED PROGRAMMING TECHNIQUES 3 Credit Hours**

Discussion and practice of pertinent aspects related to programming under time constraints.

**Prerequisite:** CS 23001.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**CS 33092 SPEED PROGRAMMING PRACTICUM (ELR) 2 Credit Hours**

(Repeatable for credit) Practice of pertinent aspects from CS 33011.

**Prerequisite:** CS 33011.

**Schedule Type:** Practical Experience

**Contact Hours:** 2 other

**Grade Mode:** Standard Letter

**Attributes:** Experiential Learning Requirement

**CS 33101 STRUCTURE OF PROGRAMMING LANGUAGES 3 Credit Hours**

Introduction to grammar, discrete and data structure concepts, syntax, semantics, abstraction, implementation model for imperative languages, dynamic memory management, type theory, concurrent programming, functional programming, logic programming, object oriented programming, event driven programming.

**Prerequisite:** Minimum C grade in CS 23001.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CS 33192 INTERNSHIP IN COMPUTER SCIENCE (ELR) 1-3 Credit Hours**

(Repeatable for credit for a maximum of 12 credit hours) Supervised work experience in computer science. Since this work will be outside the department a report and final presentation will be required; a site visit might also be necessary.

**Prerequisite:** Special approval.

**Schedule Type:** Practical Experience

**Contact Hours:** 3-9 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**Attributes:** Experiential Learning Requirement

**CS 33211 OPERATING SYSTEMS 3 Credit Hours**

Introduction to operating systems, processes and threads, CPU scheduling, mutual exclusion and synchronization, deadlock, memory management, file systems, security, networking and distributed systems and current topics. systems.

**Prerequisite:** Minimum C grade in CS 23001.

**Pre/corequisite:** CS 35101.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CS 33223 UNIX TOOLS 3 Credit Hours**

Course will cover UNIX operating system environment topics that will make the user more productive. Topics will include the user environment, shells, files, the file system, editors, scripting languages, document processing, processes, remote access and documentation.

**Prerequisite:** CS 13001.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CS 33301 EMBEDDED SYSTEM PROGRAMMING 3 Credit Hours**

Catalog Description (edited): An embedded system is a combination of computer hardware and software specifically designed for a particular function. Embedded systems have been playing important roles in various application areas such as industrial machines, automobiles, medical equipment, cameras, household appliances, air planes, vending machines, toys and other uses. Students will learn fundamental concepts of designing and programming embedded computer systems, including requirements specifications, architectural and detailed design, and implementation, focusing on real-time aspects of programming languages, operating system kernels, and hardware architectures.

**Prerequisite:** Minimum C grade in CS 23001.

**Corequisite:** CS 35101.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CS 33901 SOFTWARE ENGINEERING 3 Credit Hours**

An introduction to software engineering concepts: life cycle models; modeling languages; requirements analysis; specification; design; testing; validation; project management and maintenance.

**Prerequisite:** Minimum C grade in CS 23001.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CS 35101 COMPUTER ORGANIZATION 3 Credit Hours**

Computer system organization, including performance measures, instruction sets, computer arithmetic, central processing unit, pipelining, memory hierarchy, and parallel processors.

**Prerequisite:** Minimum C grade in CS 13001; or minimum C grade in the following courses CS 13011 and CS 13012.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CS 35201 COMPUTER COMMUNICATION NETWORKS 3 Credit Hours**

An introduction to net-centric systems, data communication protocols, network architectures, routing protocols, network management, congestion control, network security, compression techniques, mobile and wireless networks, and WWW as an example of a client-server system.

**Prerequisite:** Minimum C grade in CS 23001.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CS 38101 INTRODUCTION TO GAME PROGRAMMING 3 Credit Hours**

Game engine scripting, event driven and data driven programming, game engine data structures, basic game related graphics and AI concepts, a short game development project.

**Prerequisite:** Minimum C grade in CS 23001.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CS 39995 SPECIAL TOPICS IN COMPUTER SCIENCE 1-3 Credit Hours**

(Repeatable for credit) Special topics from all areas of computer science.

**Prerequisite:** Permission.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CS 41038 INTERMEDIATE LOGIC 3 Credit Hours**

(Cross-listed with MATH 41038 and MATH 51038 and PHIL 41038 and PHIL 51038) A detailed, systematic study of symbolic logic for philosophy majors, mathematics majors, computer science majors, and anyone else interested in advanced study in logic. The aim of the course is twofold: first, to develop a facility in understanding and using symbolic logic for various purposes, and second, to understand and appreciate symbolic logic as an area of study in itself. Topics include the distinction between syntactic, object-level proofs and semantic, meta-level proofs, the distinction between axiomatic systems and natural deduction systems of object-level proofs, various systems of modal logic, and some non-classical logics.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CS 41045 METALOGIC 3 Credit Hours**

(Slashed with CS 51045; Cross-listed with MATH 41045 and MATH 51045 and PHIL 41045 and PHIL 51045) A detailed, systematic study of metalogic for philosophy majors, mathematics majors, computer science majors, and anyone else interested in advanced study in logic. Topics include the soundness and completeness of the propositional and predicate calculi, the decidability of propositional calculus, the undecidability of predicate calculus, Gödel's incompleteness proof for languages capable of expressing arithmetic, the co-extensionality of the set of general recursive functions, abacus computable functions, and Turing computable functions, and the philosophical motivations for the Church-Turing Thesis that all computable functions are Turing computable.

**Prerequisite:** PHIL 41038.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CS 42201 INTRODUCTION TO NUMERICAL COMPUTING I 3 Credit Hours**

An introduction to numerical methods and software for solving many common scientific computing problems. Linear systems, least-squares data fitting, nonlinear equations and systems and optimization problems.

**Prerequisite:** Minimum C grade in the following courses MATH 12003; and MATH 21001 or MATH 32051; and CS 10061 or CS 13001; or CS 13011 and CS 13012.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CS 42202 NUMERICAL COMPUTING II 3 Credit Hours**

(Cross-listed with CS 52202 and MATH 42202 and MATH 52202) A continuation of CS 42201. Topics include interpolation, numerical differentiation and integration, and numerical solution of ordinary differential equations.

**Prerequisite:** MATH 32044 or MATH 32052; and MATH 42201 or CS 42201.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter



**CS 43006 THEORY OF OBJECT-ORIENTED PROGRAMMING 3 Credit Hours**

(Cross-listed with CS 53006) In depth course on the theory and principles of object-based and object-oriented programming using a language such as C++. The course covers advanced topics in inheritance and interface planning, generic (type independent) programming, factors of polymorphism, structure and organization of class libraries and object oriented design principles.

**Prerequisite:** CS 23001.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CS 43016 BIG DATA ANALYTICS 3 Credit Hours**

This course will introduce the state-of-art computing platforms with the focus on how to utilize them in processing (managing and analyzing) massive datasets. The course will utilize several key data processing tasks, including simple statistics, data aggregation, join processing, frequent pattern mining, data clustering, information retrieval, pagerank, and massive graph analytics as the case study for large scale data processing.

**Prerequisite:** CS 23001 with a minimum C grade.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CS 43105 DATA MINING TECHNIQUES 3 Credit Hours**

Concepts and techniques of data mining. Data mining is a process of discovering information from a set of large databases. This course takes a database perspective on data mining, covering a set of interesting topics, including association rule mining, clustering, classification, web mining, etc. It covers the basics of some important theoretical foundations for data mining, including linear regression, Bayesian inferences, information theory, and markov chain random walk.

**Prerequisite:** CS 33007.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CS 43111 STRUCTURE OF COMPILERS 3 Credit Hours**

(Cross-listed with CS 53111) Techniques used to write compilers including lexical analysis, syntax analysis, syntax-directed translation, type checking, run-time environments, and intermediate code generation.

**Prerequisite:** CS 35101 and 33101.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CS 43118 GRAPH AND SOCIAL NETWORK ANALYSIS 3 Credit Hours**

(Slashed with CS 53118 and CS 73118) Catalog Description: This course covers a number of important and useful ideas in graph databases, especially in social networks (e.g. the data model for certain-uncertain graphs), indexing over graphs, and query processing algorithms for graph databases (e.g., single-source path queries, path queries, reachability queries, keyword search queries, subgraph matching, etc.). The influence maximization problems over social networks in real applications are also discussed as well as various queries over the distributed graph database.

**Prerequisite:** CS 33007.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CS 43202 SYSTEMS ADMINISTRATION 3 Credit Hours**

(Cross-listed with CS 53202) The setting up and day-to-day administration of multiuser multitasking systems, such as the various versions of UNIX, together with the analysis of problems which can arise in these activities.

**Prerequisite:** CS 33211.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CS 43203 SYSTEMS PROGRAMMING 3 Credit Hours**

(Slashed with CS 53203) The setting up and day-to-day administration of multiuser multitasking systems, such as the various versions of UNIX, together with the analysis of problems which can arise in these activities. Implementation and maintenance of system programs, system utilities, command interpreters, editors, file maintenance programs, text processors, interrupt handling, and device drivers.

**Prerequisite:** CS 23001 with a minimum C grade.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CS 43301 SOFTWARE DEVELOPMENT FOR ROBOTICS 3 Credit Hours**

(Slashed with CS 53301) Robots are being used in multiple places that are not easily accessible for humans to support the lack of available labor, to gain extra precision, and for cost effective manufacturing processes, monitoring, space exploration, precision surgery and artificial limb support for elderly and physically challenged persons. Computer science is an integral part of robotics as it includes areas such as computer algorithms, artificial intelligence, and image processing that are essential aspects of robotics. This first course on robotics will teach the students various motions of rigid robots, mathematics and algorithms related to these motions, motion planning, obstacle avoidance, intelligent path planning including use of various sensors.

**Prerequisite:** CS 23001 and CS 33301 with a minimum of C grade.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CS 43302 ALGORITHMIC ROBOTICS 3 Credit Hours**

(Slashed with CS 53302 and CS 73302) This course provides students theoretical, mathematical, and practical foundations for the design, analysis, and evaluation of algorithms for robots for diverse robotic applications. We will focus on a principled and mathematically sound approach to the design of algorithms for robots rather than ad hoc and hacking development approaches.

**Prerequisite:** CS 33301 and CS 43301.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CS 43303 INTERNET OF THINGS 3 Credit Hours**

(Slashed with CS 53303 and CS 73303) This course will provide a comprehensive understanding of the Internet of Things by looking into a variety of real-world application scenarios, existing and new technologies and architectures, communication protocols and standardization efforts, societal and behavioral changes, and how to apply these technologies to tackle real-world problems.

**Prerequisite:** CS 33301 or CS 45231.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter



**CS 43305 ADVANCED DIGITAL DESIGN 3 Credit Hours**

(Slashed with CS 53305) This course describes techniques in the design of digital systems. Topics covered include combinational and sequential logic, gate-level minimization, registers and counters, memory and programmable logic, hardware description languages, digital communication including serial and parallel and synchronous and asynchronous methods.

**Prerequisite:** CS 23001 with a minimum C grade.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CS 43334 HUMAN-ROBOT INTERACTION 3 Credit Hours**

(Slashed with CS 53334 and CS 73334) Human-Robot Interaction (HRI) is the study of interactions between humans and robots dedicated to understanding, designing, and evaluating robotic systems for use by and with humans. HRI is a multidisciplinary field that incorporates human-computer interaction, artificial intelligence, robotics, natural language understanding, design, and social sciences. Interaction between humans and robots may take several forms, but are generally categorized by how close in proximity the humans and robots are to each other such as remote, proximate, and hybrid interaction. In the class, students will learn the fundamental technologies and theories in each category, and blend this knowledge with various case studies and lab activities.

**Prerequisite:** CS 33301 and CS 43301.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CS 43401 SECURE PROGRAMMING 3 Credit Hours**

Code vulnerabilities, static code analysis, error handling, secure I/O, race conditions and mediation, handling buffer and integer overflow, handling vulnerabilities in web and database programming, privacy and cryptography, random number generators.

**Prerequisite:** CS 23001 with a minimum C grade; and junior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CS 44001 COMPUTER SCIENCE III-PROGRAMMING PATTERNS 4 Credit Hours**

(Slashed with CS 54001) CS III Programming Patterns extends students' knowledge of object oriented programming, and improves their C++ programming skills. Specifically, it covers procedural and object-based programming, inheritance, polymorphism, popular design patterns, and generic programming.

**Prerequisite:** CS 23001 with a minimum C grade.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 3 lecture, 3 lab

**Grade Mode:** Standard Letter

**CS 44003 MOBILE APPS IN IOS PROGRAMMING 3 Credit Hours**

(Slashed with CS 54003) Students are introduced to mobile applications programming in the iOS environment using model, view, controller paradigms. Other topics include swift, programming using on board devices like GPS, cameras, motion detectors, and screen touches.

**Prerequisite:** CS 23001 with a minimum C grade.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CS 44004 DRONE PROGRAMMING 3 Credit Hours**

Course describes the design, programming and control of autonomous drones. Students will learn how to write apps to compute and control the drone's trajectories, including collision avoidance and object detection. Topics covered include system software and hardware architectures, use case models, interoperability, trajectory programming, communications protocols. Students will apply this knowledge in the context of programming assignments using drone simulator. Subsequently, students will develop apps to control autonomous drone vehicle.

**Prerequisite:** Minimum C grade in CS 35201.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CS 44105 WEB PROGRAMMING I 3 Credit Hours**

(Slashed with CS 54105) This course is the first of a two-course sequence on Web Programming covering from basic to advanced topics on Web Programming based on open standards and best practices. Topics covered include the HyperText Markup Language (HTML), specifying look and feel using Cascading Style Sheets (CSS), client side programming in Javascript, server side programming in PHP, and the Hypertext Transfer Protocol (HTTP).

**Prerequisite:** CS 23001 with a minimum C grade.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CS 44106 WEB PROGRAMMING II 3 Credit Hours**

(Slashed with CS 54106) This course is the second of a two-course sequence on Web Programming covering advanced topics on Web Programming based on open standards and best practices. This is a project course exploring advanced aspects of Web programming. Topics covered include advanced server side programming in PHP; database driven websites; structured query language (SQL) and MySQL; E-commerce; web hosting using Apache, PHP and MySQL; basic and digest authentication; web security, encryption and digital certificates; Extensible Markup Language (XML) for the web, AJAX and web services; scalable vector graphics (SVG); mobile websites.

**Prerequisite:** CS 44105.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CS 44201 ARTIFICIAL INTELLIGENCE 3 Credit Hours**

(Slashed with CS 54201) Examines goals, problems, concepts and methods of artificial intelligence, heuristic versus algorithmic methods, natural language comprehension, theorem proving.

**Prerequisite:** CS 23001.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CS 44901 SOFTWARE DEVELOPMENT PROJECT (ELR) (WIC) 4 Credit Hours**

With the supervision of the instructor, students will work in teams to design and implement a realistic software project similar to projects they would encounter in the workplace.

**Prerequisite:** CS 23001 with a minimum C grade; and junior standing.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 3 lecture, 3 lab

**Grade Mode:** Standard Letter

**Attributes:** Experiential Learning Requirement, Writing Intensive Course

**CS 44902 SOFTWARE REQUIREMENTS ENGINEERING 3 Credit Hours**

(Slashed with CS 54902) Students will learn a systematic approach to requirements elicitation, envisioning, requirements engineering, while leveraging design-based ideation and validation. Topics include software and systems requirements engineering, interface design and modeling, systems architecture, performance engineering, ethics, systems verification and testing.

**Prerequisite:** CS 33901.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CS 45102 CENTRAL PROCESSING UNIT (CPU) ARCHITECTURES 3 Credit Hours**

(Slashed with CS 55102) This course explores CPU architectures and concepts, focusing mostly on general purpose CPUs. It begins by examining the x86 architecture, the origins of reduced instruction set computers, and how those diverse concepts were reconciled. It looks at superscalar execution, out-of-order execution, branch prediction, and speculative execution, and their use in the Intel Pentium Pro and Pentium II. Finally, it concludes by exploring some contemporary CPU architectures such as embedded processors, graphics processors, and the open-source RISC-V architecture.

**Prerequisite:** CS 35101; and CS 23001 with a minimum C grade.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CS 45203 COMPUTER NETWORK SECURITY 3 Credit Hours**

(Slashed with CS 55203) Overview of network security including attacks and vulnerabilities and defense measures, secure network design, network and transport layers security, intrusion detection techniques, defense against denial of service attacks, network hardware, software, and applications attacks and their defense, security policies, legal and ethical issues in cyber and computer crimes.

**Prerequisite:** CS 35201 and; MATH 20011 or MATH 30011.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CS 45231 INTERNET ENGINEERING 3 Credit Hours**

Design fundamentals and working principles of internet systems at the IP layer and above. DNS, inter-domain routing, internet client server programming, application level protocols (HTTP, XML, etc.) web server architecture, browser internet security and multimedia serving.

**Prerequisite:** CS 23001, 33211 and 35201.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CS 46101 DESIGN AND ANALYSIS OF ALGORITHMS 3 Credit Hours**

(Slashed with CS 56101) Introduction to algorithmic concepts, design and complexity analysis of algorithms and data structures, searching, sorting, graph and string algorithms.

**Prerequisite:** MATH 12003 or MATH 12013; and minimum C grade in CS 23001.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CS 47101 COMPUTER GRAPHICS 3 Credit Hours**

Display file generation, interactive graphics techniques, display devices, three-dimensional graphics, graphic system design, graphic languages and applications in man-machine communications.

**Prerequisite:** CS 23001.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CS 47201 HUMAN COMPUTER INTERACTION 3 Credit Hours**

Approaches the human-computer interaction as an activity of the human whose productivity is increased by the use of the computer as a tool. Examines physiology and psychology considers the structure and operation of the computer and models the interaction between the two.

**Prerequisite:** CS 23001.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CS 47205 INFORMATION SECURITY 3 Credit Hours**

(Slashed with CS 57205) An introduction to concepts and methodology useful for information security, as specified by the NSTISSI NO. 4011 standard from the NSA.

**Prerequisite:** CS 23001 with a minimum C grade.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CS 47206 DATA SECURITY AND PRIVACY 3 Credit Hours**

(Slashed with CS 57206) The goal of the course is to familiarize the students with basic concepts of security and privacy, their definitions, applications and current advances in research community and industry. This course addresses the security and privacy issues in legacy systems and also studies security and privacy policies and legislations. This course also reviews current research projects in the area of security and privacy.

**Prerequisite:** CS 23001 with a minimum C grade.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CS 47207 DIGITAL FORENSICS 3 Credit Hours**

(Slashed with CS 57207) This course addresses the need for digital forensics, best practices for general incidence response, legal aspects of forensics, tools and techniques to perform a full computer forensic investigation.

**Prerequisite:** CS 23001 with a minimum C grade.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CS 47221 INTRODUCTION TO CRYPTOLOGY 3 Credit Hours**

This is a course on the modern science of Cryptology; that is, the process of hiding information by converting it, through a reversible process, into something unrecognizable. Of course, only the recipient should be able to reverse the "hiding" or encrypting process. As far as usage in life is concerned, this course will help you to set up cryptosystems in many different environments. This skill is highly employable; from the NSA, to banks, to anybody who needs to encrypt information is looking for people with knowledge in Cryptology.

**Prerequisite:** CS 23001 with a minimum C grade.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CS 48101 GAME ENGINE CONCEPTS 3 Credit Hours**

Introduction to 3D game engine design, game memory management, multithreading in games, sprites and bitmap animation level design, path finding, audio-visual effects, AI and physical modeling in games, networked gaming.

**Prerequisite:** CS 23001 with a minimum C grade.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CS 48102 GAME DEVELOPMENT PRACTICUM (ELR) (WIC) 4 Credit Hours**

With the supervision of the instructor, students will work in teams to design and implement a computer game or 3D interactive learning environment using a game engine in a professional setup.

**Prerequisite:** CS 33007 and CS 33901 and CS 35201; and CS 48101 or CS 38101; and junior standing.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 3 lecture, 2 lab

**Grade Mode:** Standard Letter

**Attributes:** Experiential Learning Requirement, Writing Intensive Course

**CS 49995 SPECIAL TOPICS IN COMPUTER SCIENCE 1-4 Credit Hours**

(Repeatable for credit) (Slashed with CS 59995) Special topics from all areas of computer science.

**Prerequisite:** Special approval.

**Schedule Type:** Lecture

**Contact Hours:** 4 lecture

**Grade Mode:** Standard Letter

**CS 49996 INDIVIDUAL STUDY 1-4 Credit Hours**

(Repeatable for credit).

**Prerequisite:** Special approval.

**Schedule Type:** Individual Investigation

**Contact Hours:** 1-4 other

**Grade Mode:** Standard Letter

**CS 49998 RESEARCH (ELR) 1-15 Credit Hours**

(Repeatable for credit)

**Prerequisite:** Special approval.

**Schedule Type:** Research

**Contact Hours:** 1-15 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**Attributes:** Experiential Learning Requirement

**CS 49999 CAPSTONE PROJECT (ELR) (WIC) 4 Credit Hours**

The course is an integrative experience that brings together all components of the undergraduate computer science curriculum in an applied, hands-on real-world setting. The course is three-credits lecture and one-credit lab.

**Prerequisite:** CS 33007 and CS 33901 and CS 35201.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 4 other

**Grade Mode:** Standard Letter

**Attributes:** Experiential Learning Requirement, Writing Intensive Course

**CS 51045 METALOGIC 3 Credit Hours**

(Slashed with CS 41045; Cross-listed with MATH 41045 and MATH 51045 and PHIL 41045 and PHIL 51045) A detailed, systematic study of metalogic for philosophy majors, mathematics majors, computer science majors, and anyone else interested in advanced study in logic. Topics include the soundness and completeness of the propositional and predicate calculi, the decidability of propositional calculus, the undecidability of predicate calculus, Gödel's incompleteness proof for languages capable of expressing arithmetic, the co-extensionality of the set of general recursive functions, abacus computable functions, and Turing computable functions, and the philosophical motivations for the ChurchTuring Thesis that all computable functions are Turing computable

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CS 52201 NUMERICAL COMPUTING I 3 Credit Hours**

(Slashed with CS 42201) (Cross-listed with MATH 42201 and MATH 52201) An introduction to numerical methods and software for solving many common scientific computing problems. Linear systems, least-squares data fitting, nonlinear equations and systems, and optimization problems.

**Prerequisite:** Graduate standing in Computer Science.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CS 52202 NUMERICAL COMPUTING II 3 Credit Hours**

(Slashed with CS 42202)(Cross-listed with MATH 42202 and MATH 52202) A continuation of CS 52201. Topics include interpolation numerical differentiation and integration and numerical solution of ordinary differential equations.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CS 53006 THEORY OF OBJECT-ORIENTED PROGRAMMING 3 Credit Hours**

(Slashed with CS 43006) In-depth course on the theory and principles of object-based and object-oriented programming using a language such as C++. The course covers advanced topics in inheritance and interface planning, generic (type independent) programming, factors of polymorphism, structure and organization of class libraries, and object-oriented design principles.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CS 53111 STRUCTURE OF COMPILERS 3 Credit Hours**

(Slashed with CS 43111) Techniques used to write compilers including lexical analysis, syntax analysis, syntax directed translation, type checking, run-time environments and intermediate code generation.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CS 53118 GRAPH AND SOCIAL NETWORK ANALYSIS 3 Credit Hours**

(Slashed with CS 43118 and CS 73118) This course covers a number of important and useful ideas in graph databases, especially in social networks (e.g. the data model for certain-uncertain graphs), indexing over graphs, and query processing algorithms for graph databases (e.g., single-source path queries, path queries, reachability queries, keyword search queries, subgraph matching, etc.). The influence maximization problems over social networks in real applications are also discussed as well as various queries over the distributed graph databases.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CS 53202 SYSTEMS ADMINISTRATION 3 Credit Hours**

(Slashed with CS 43202) The setting up and day-to-day administration of multiuser multitasking systems, such as the various versions of UNIX together with the analysis of problems which can arise in these activities.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CS 53203 SYSTEMS PROGRAMMING 3 Credit Hours**

(Slashed with CS 43203) The setting up and day-to-day administration of multiuser multitasking systems, such as the various versions of UNIX, together with the analysis of problems which can arise in these activities. Implementation and maintenance of system programs, system utilities, command interpreters, editors, file maintenance programs, text processors, interrupt handling, and device drivers.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CS 53301 SOFTWARE DEVELOPMENT FOR ROBOTICS 3 Credit Hours**

(Slashed with CS 43301) Robots are being used in multiple places that are not easily accessible for humans, to support the lack of available labor, to gain extra precision, and for cost effective manufacturing processes, monitoring, space exploration, precision surgery and artificial limb support for elderly and physically challenged persons. Computer science is an integral part of robotics as it includes areas such as computer algorithms, artificial intelligence, and image processing that are essential aspects of robotics. This first course on robotics will teach the students various motions of rigid robots, mathematics and algorithms related to these motions, motion planning, obstacle avoidance, intelligent path planning including use of various sensors.

**Prerequisite:** Graduate standing.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CS 53302 ALGORITHMIC ROBOTICS 3 Credit Hours**

(Slashed with CS 43302 and CS 73302) This course provides students theoretical, mathematical, and practical foundations for the design, analysis, and evaluation of algorithms for robots for diverse robotic applications. We will focus on a principled and mathematically sound approach to the design of algorithms for robots rather than ad hoc and hacking development approaches.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CS 53303 INTERNET OF THINGS 3 Credit Hours**

(Slashed with CS 43303 and CS 73303) This course will provide a comprehensive understanding of the Internet of Things by looking into a variety of real-world application scenarios, existing and new technologies and architectures, communication protocols and standardization efforts, societal and behavioral changes, and how to apply these technologies to tackle real-world problems.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CS 53305 ADVANCED DIGITAL DESIGN 3 Credit Hours**

(Slashed with CS 43305) This course describes techniques in the design of digital systems. Topics covered include combinational and sequential logic, gate-level minimization, registers and counters, memory and programmable logic, hardware description languages, digital communication including serial and parallel and synchronous and asynchronous methods.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CS 53334 HUMAN-ROBOT INTERACTION 3 Credit Hours**

(Slashed with CS 43334 and CS 73334) Human-Robot Interaction (HRI) is the study of interactions between humans and robots dedicated to understanding, designing, and evaluating robotic systems for use by and with humans. HRI is a multidisciplinary field that incorporates human-computer interaction, artificial intelligence, robotics, natural language understanding, design, and social sciences. Interaction between humans and robots may take several forms, but are generally categorized by how close in proximity the humans and robots are to each other such as remote, proximate, and hybrid interaction. In the class, students will learn the fundamental technologies and theories in each category, and blend this knowledge with various case studies and lab activities.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CS 53401 SECURE PROGRAMMING 3 Credit Hours**

Code vulnerabilities, static code analysis, error handling, secure I/O, race conditions and mediation, handling buffer and integer overflow, handling vulnerabilities in web and database programming, privacy and cryptography, random number generators.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CS 54001 COMPUTER SCIENCE III - PROGRAMMING PATTERNS 4 Credit Hours**

(Slashed with CS 44001) Extends students' knowledge of object oriented programming, and improves their C++ programming skills. Specifically, it covers procedural and object-based programming, inheritance, polymorphism, popular design patterns, and generic programming.

**Prerequisite:** Graduate standing.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 3 lecture, 3 lab

**Grade Mode:** Standard Letter



**CS 54003 MOBILE APPS IN IOS PROGRAMMING 3 Credit Hours**

Students are introduced to mobile applications programming in the iOS environment using model, view, controller paradigms. Other topics include swift, programming using on board devices like GPS, cameras, motion detectors, and screen touches.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CS 54105 WEB PROGRAMMING I 3 Credit Hours**

(Slashed with CS 44105) This course is the first of a two-course sequence on Web Programming covering from basic to advanced topics on Web Programming based on open standards and best practices. Topics covered include the HyperText Markup Language (HTML), specifying look and feel using Cascading Style Sheets (CSS), client side programming in Javascript, server side programming in PHP, and the Hypertext Transfer Protocol (HTTP).

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CS 54106 WEB PROGRAMMING II 3 Credit Hours**

(Slashed with CS 44106) This course is the second of a two-course sequence on Web Programming covering advanced topics on Web Programming based on open standards and practices. This is a project course exploring advanced aspects of Web programming. Topics covered include advanced server side programming in PHP; database driven websites; structured query language (SQL) and MySQL; E-commerce; web hosting using Apache, PHP MySQL; basic and digest authentication; web security, encryption and digital certificates; Markup Language (XML) for the web, AJAX and web services; scalable vector graphics (SVG); websites.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CS 54201 ARTIFICIAL INTELLIGENCE 3 Credit Hours**

(Slashed with CS 44201) Examines goals, problems, concepts and methods of artificial intelligence heuristic versus algorithmic methods, natural language comprehension, theorem proving.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CS 54202 MACHINE LEARNING AND DEEP LEARNING 3 Credit Hours**

This course provides an overview of some fundamental concepts, techniques and algorithms in machine learning and deep learning, and will give students a basic understanding (ideas and intuitions) of how modern machine learning works. Specifically, there are three main objectives: 1. To help student get familiar with the fundamental mathematical tools (linear algebra, probability theory, statistical inference, numerical optimization, and learning theory) which lays the foundation of machine learning algorithms and techniques; 2. To introduce the core machine learning concepts and topics, such as linear regression, classification, SVM, and neural networks (and its deep variants); in addition, we will utilize the recommendation system for students to learn how real world machine system works; 3. Teach students how to program and use the latest machine learning packages, such as Tensorflow.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CS 54902 SOFTWARE REQUIREMENTS ENGINEERING 3 Credit Hours**

(Slashed with CS 44902) Students will learn a systematic approach to requirements elicitation, envisioning, requirements engineering, while leveraging design-based ideation and validation. Topics include software and systems requirements engineering, interface design and modeling, systems architecture, performance engineering, ethics, systems verification and testing.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CS 55102 CENTRAL PROCESSING UNIT (CPU) ARCHITECTURES 3 Credit Hours**

(Slashed with CS 45102) This course explores CPU architectures and concepts, focusing mostly on general purpose CPUs. It begins by examining the x86 architecture, the origins of reduced instruction set computers, and how those diverse concepts were reconciled. It looks at superscalar execution, out-of-order execution, branch prediction, and speculative execution, and their use in the Intel Pentium Pro and Pentium II. Finally, it concludes by exploring some contemporary CPU architectures such as embedded processors, graphics processors, and the open-source RISC-V architecture.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CS 55201 COMPUTER COMMUNICATION NETWORKS 3 Credit Hours**

An introduction to net-centric systems, data communication protocols, network architectures, routing protocols, network management, congestion control, network security, compression techniques, mobile and wireless networks, and WWW as an example of a client server system.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter



**CS 55203 COMPUTER NETWORK SECURITY 3 Credit Hours**

(Slashed with CS 45203) Overview of network security including attacks and vulnerabilities and defense measures, secure network design, network and transport layers security, intrusion detection techniques, defense against denial of service attacks, network hardware, software, and applications attacks and their defense, security policies, legal and ethical issues in cyber and computer crimes.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CS 55231 INTERNET ENGINEERING 3 Credit Hours**

(Slashed with CS 45231) Design fundamentals and working principles of internet systems at the IP layer and above. DNS, inter-domain routing, internet client server programming, application level protocols (HTTP, XML, etc.) Web server architecture, browser, internet security, and multimedia serving.

**Prerequisite:** CS 23001 and CS 55201; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CS 56101 DESIGN AND ANALYSIS OF ALGORITHMS 3 Credit Hours**

(Slashed with CS 46101) Introduction to algorithmic concepts, design and complexity analysis of algorithms and data structures, searching, sorting, graph and string algorithms.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CS 57101 COMPUTER GRAPHICS 3 Credit Hours**

(Slashed with CS 47101) Display file generation, interactive graphics techniques, display devices, three-dimensional graphics, graphic system design, graphic languages and applications in man-machine communications.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CS 57201 HUMAN COMPUTER INTERACTION 3 Credit Hours**

(Slashed with CS 47201) Approaches the human-computer interaction as an activity of the human whose productivity is increased by the use of the computer as a tool. Examines physiology and psychology considers the structure and operation of the computer and models the interaction between the two.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CS 57205 INFORMATION SECURITY 3 Credit Hours**

(Slashed with CS 47205) An introduction to concepts and methodology useful for information security, as specified by the NSTISSI NO. 4011 standard from the NSA.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CS 57206 DATA SECURITY AND PRIVACY 3 Credit Hours**

(Slashed with CS 47206) The goal of the course is to familiarize the students with basic concepts of security and privacy, their definitions, applications and current advances in research community and industry. This course addresses the security and privacy issues in legacy systems and also studies security and privacy policies and legislations. This course also reviews current research projects in the area of security and privacy.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CS 57207 DIGITAL FORENSICS 3 Credit Hours**

(Slashed with CS 47207) This course addresses the need for digital forensics, best practices for general incidence response, legal aspects of forensics, tools and techniques to perform a full computer forensic investigation.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CS 57221 INTRODUCTION TO CRYPTOLOGY 3 Credit Hours**

(Slashed with CS 47221) This is a course on the modern science of Cryptology; that is, the process of hiding information by converting it, through a reversible process, into something unrecognizable. Of course, only the recipient should be able to reverse the "hiding" or encrypting process. As far as usage in life is concerned, this course will help you to set up cryptosystems in many different environments. This skill is highly employable; from the NSA, to banks, to anybody who needs to encrypt information is looking for people with knowledge in Cryptology.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CS 59893 VARIABLE TITLE WORKSHOP IN COMPUTER SCIENCE 1-6 Credit Hours**

(Repeatable for credit) Studies in special topics in computer science.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Workshop

**Contact Hours:** 1-6 other

**Grade Mode:** Satisfactory/Unsatisfactory

**CS 59995 SPECIAL TOPICS IN COMPUTER SCIENCE 1-3 Credit Hours**

(Repeatable for credit) (Slashed with CS 49995) Various special courses will be announced in the schedule of classes under this title.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 1-3 lecture

**Grade Mode:** Standard Letter

**CS 60093 VARIABLE TITLE WORKSHOP IN COMPUTER SCIENCE 1-3 Credit Hours**

(Repeatable for credit) Studies of special topics in computer science.

Not acceptable for credit toward a graduate degree in computer science without approval of the student's adviser.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Workshop

**Contact Hours:** 1-3 other

**Grade Mode:** Satisfactory/Unsatisfactory

**CS 60094 COLLEGE TEACHING OF COMPUTER SCIENCE 1 Credit Hour**

(Repeatable for credit) (Slashed with CS 70094) Techniques and problems of college teaching of computer science. Student presentation of computer science papers will be included.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 1 lecture

**Grade Mode:** Standard Letter-S/U

**CS 61002 ALGORITHMS AND PROGRAMMING I 4 Credit Hours**

An introduction to the algorithms and tools used in computer science; includes programming in a high level language. This course may not be counted toward degree requirement in the CS Masters of Science degree or the CS Ph.D. degree.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 4 lecture

**Grade Mode:** Standard Letter

**CS 61003 ALGORITHMS AND PROGRAMMING II 4 Credit Hours**

Further exploration into the tools used in computer science. This course may not be counted toward degree requirements in the CS Masters of Science degree or the CS Ph.D. degree.

**Prerequisite:** CS 61002; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 4 lecture

**Grade Mode:** Standard Letter

**CS 61004 OPERATING SYSTEMS AND ARCHITECTURE 4 Credit Hours**

The fundamentals of computer operating systems and architecture design required for a Masters of Arts degree in computer science are presented. This course may not be counted towards the Masters of Science or the Doctoral programs in Computer Science.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 4 lecture

**Grade Mode:** Standard Letter

**CS 61092 PRACTICUM IN CS FOR INFORMATION ARCHITECTURE AND KNOWLEDGE MANAGEMENT 1-5 Credit Hours**

(Repeatable for credit) This course is an alternative to IAKM 60198 for students interested in pursuing a CS thesis. Credit for IAKM 60198 or any other project course is not allowed.

**Prerequisite:** Graduate standing.

**Schedule Type:** Practical Experience

**Contact Hours:** 1-5 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**CS 61199 THESIS I FOR INFORMATION ARCHITECTURE AND KNOWLEDGE MANAGEMENT 2-6 Credit Hours**

Thesis students must register for a minimum of 6 hours. No credit for CS students.

**Prerequisite:** Graduate standing.

**Schedule Type:** Masters Thesis

**Contact Hours:** 2-6 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**CS 61299 THESIS II FOR INFORMATION ARCHITECTURE AND KNOWLEDGE MANAGEMENT STUDENTS 2 Credit Hours**

Thesis students must continue registration each semester until all degree requirements are met.

**Prerequisite:** CS 61199.

**Schedule Type:** Masters Thesis

**Contact Hours:** 2 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**CS 62263 NUMERICAL SOLUTION OF LARGE SPARSE LINEAR SYSTEMS 3 Credit Hours**

(Slashed with CS 72263) (Cross-listed with MATH 62263 and MATH 72263) Construction and analysis of iterative methods for large systems of linear algebraic equations. Jacobi, Gauss-Seidel, SOR. Polynomial acceleration methods, conjugate gradients. Multi-grid methods.

**Prerequisite:** MATH 51021 and CS 52202; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CS 62264 NUMERICAL SOLUTION OF NONLINEAR SYSTEMS 3 Credit Hours**

(Slashed with CS 72264) (Cross-listed MATH 62264 and MATH 72264) Construction and analysis of numerical methods for systems of non linear algebraic equations and optimization problems. Numerical implementation and software.

**Prerequisite:** MATH 52041 and CS 52202; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CS 63005 ADVANCED DATABASE SYSTEMS DESIGN 3 Credit Hours**

(Slashed with CS 73005) Introduction to a variety of advanced database topics and on-going trends in modern database systems. The course includes advanced issues of object-oriented database, XML, advanced client server architecture and distributed database techniques.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CS 63015 DATA MINING TECHNIQUES 3 Credit Hours**

(Slashed with CS 73015) Concepts and techniques of data mining. Data mining is a process of discovering information from a set of large databases. This course takes a database perspective on data mining.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CS 63016 BIG DATA ANALYTICS 3 Credit Hours**

(Slashed with CS 73016) Introduces computing platforms with focus on how to use them in processing, managing and analyzing massive datasets. Utilizes several key data processing tasks, including simple statistics, data aggregation, join processing, frequent pattern mining, data clustering, information retrieval, pagerank and massive graph analytics as the case study for large scale data processing.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CS 63017 BIG DATA MANAGEMENT 3 Credit Hours**

This course will cover a series of important Big-Data-related problems and their solutions. Specifically, we will introduce the characteristics and challenges of the Big Data, state-of-the-art computing paradigm and platforms (e.g., MapReduce), big data programming tools (e.g., Hadoop and MongoDB), big data extraction and integration, big data storage, scalable indexing for big data, big graph processing, big data stream techniques and algorithms, big probabilistic data management, big data privacy, big data visualizations, and big data applications (e.g., spatial, finance, multimedia, medical, health, and social data).

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CS 63018 PROBABILISTIC DATA MANAGEMENT 3 Credit Hours**

(Slashed with CS 73018) This course addresses the fundamental concepts and techniques for probabilistic data management in the area of databases. Probabilistic data are pervasive in many real-world applications, such as sensor networks, GPS system, location-based services, mobile computing, multimedia databases, data extraction and integration, trajectory data analysis, semantic web, privacy preserving, and so on. This class also covers major research topics such as probabilistic or uncertain data models, probabilistic queries, probabilistic query answering techniques, and data quality issues in databases.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CS 63100 COMPUTATIONAL HEALTH INFORMATICS 3 Credit Hours**

(Slashed with CS 73100) The course describes computational techniques and software tools for managing and transmitting health related information and automated analysis of medical and biosignal data.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CS 63201 ADVANCED OPERATING SYSTEMS 3 Credit Hours**

(Slashed with CS 73201) Introduction to distributed systems, interprocess communication, distributed mutual exclusion, synchronization and deadlock, distributed process management and distributed file systems.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CS 63301 PARALLEL AND DISTRIBUTED COMPUTING 3 Credit Hours**

(Slashed with CS 73301) Overview of parallel and distributed computing; structuring parallel and distributed programs; parallel programming using SIMD, SPMD, MIMD and associative computing; parallel and distributed architecture using existing machines as case studies.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CS 63304 CLUSTER COMPUTING 3 Credit Hours**

(Slashed with CS 73304) This course will investigate clusters of computers as a computing platform, hardware and software trade-offs for clusters and application performance and programming of clusters.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CS 63305 MULTICORE COMPUTING 3 Credit Hours**

(Slashed with CS 73305) Starting about 2005, hardware architects began putting more than one processing core on a single chip, leading to the recent rapid advancements in multicore processor architectures. This shift has changed almost everything ranging from memory hierarchy and consistency to programming those architectures. The goal of this course is to study multicore processor architectures from the perspective of hardware, software and algorithm design, the challenges, and the technologies that are relevant to those architectures.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CS 63306 EMBEDDED COMPUTING 3 Credit Hours**

(Slashed with CS 73306) Computational issues structuring programs for processors embedded in other devices, such as those found in automobiles and biological and chemical sample processing devices.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CS 63901 SOFTWARE ENGINEERING METHODOLOGIES 3 Credit Hours**

(Slashed with CS 73901) Software process models; modeling languages; software process improvement; requirement analysis and elicitation; advanced systems and architectural design; estimation; verification and validation; reuse; and metrics.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CS 63902 SOFTWARE EVOLUTION 3 Credit Hours**

(Slashed with CS 73902) Methods and techniques supporting later lifecycle activities, including software testing and maintenance, reuse and reverse engineering.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CS 64201 ADVANCED ARTIFICIAL INTELLIGENCE 3 Credit Hours**

(Slashed with CS 74201) Additional topics in AI such as logic programming, advanced problem-solving systems, understanding natural languages, vision, learning, plan-generating systems.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CS 64301 PATTERN RECOGNITION PRINCIPLES 3 Credit Hours**  
 (Slashed with CS 74301) Introduction to mathematical pattern recognition, feature selection, distribution-free classification, statistical classification, nonsupervised learning, sequential learning and application.  
**Prerequisite:** Graduate standing.  
**Schedule Type:** Lecture  
**Contact Hours:** 3 lecture  
**Grade Mode:** Standard Letter

**CS 64401 IMAGE PROCESSING 3 Credit Hours**  
 (Slashed with CS 74401) This course covers digital processing of digital imagery. Digitization of TV imagery, noise removal, image enhancement, edge and texture detection, object recognition and scene analysis.  
**Prerequisite:** Graduate standing.  
**Schedule Type:** Lecture  
**Contact Hours:** 3 lecture  
**Grade Mode:** Standard Letter

**CS 64402 MULTIMEDIA SYSTEMS AND BIOMETRICS 3 Credit Hours**  
 (Slashed with CS 74402) This course discusses computational techniques for the fusion of multimedia data recorded by sensors for human-identification using automated analysis of biometric signals.  
**Prerequisite:** Graduate standing.  
**Schedule Type:** Lecture  
**Contact Hours:** 3 lecture  
**Grade Mode:** Standard Letter

**CS 65101 ADVANCED COMPUTER ARCHITECTURE 3 Credit Hours**  
 (Slashed with CS 75101) System performance measures, processor implementation, pipelining, system interconnection, memory hierarchy interrupts, stack architecture, vector and multiprocessors.  
**Prerequisite:** Graduate standing.  
**Schedule Type:** Lecture  
**Contact Hours:** 3 lecture  
**Grade Mode:** Standard Letter

**CS 65202 ADVANCED COMMUNICATION NETWORKS 3 Credit Hours**  
 (Slashed with CS 75202) This course covers central problems that confront network designers in high-speed networking such as real-time traffic, congestion control, quality of service (QoS), performance analysis, traffic management and internet routing.  
**Prerequisite:** Graduate standing.  
**Schedule Type:** Lecture  
**Contact Hours:** 3 lecture  
**Grade Mode:** Standard Letter

**CS 65203 WIRELESS AND MOBILE COMMUNICATION NETWORKS 3 Credit Hours**  
 (Slashed with CS 75203) Examines how wireless systems work and how mobile systems are supported by the underlying network infrastructure. Course covers the architecture and the interactions among different functional units in wireless and mobile systems.  
**Prerequisite:** Graduate standing.  
**Schedule Type:** Lecture  
**Contact Hours:** 3 lecture  
**Grade Mode:** Standard Letter

**CS 65301 SYSTEM MODELING AND PERFORMANCE EVALUATION 3 Credit Hours**  
 (Slashed with CS 75301) Provides a detailed study of queuing, network models and their application to operating systems, computer time sharing and multi access systems.  
**Prerequisite:** Graduate standing.  
**Schedule Type:** Lecture  
**Contact Hours:** 3 lecture  
**Grade Mode:** Standard Letter

**CS 66101 ADVANCED TOPICS IN ALGORITHMS 3 Credit Hours**  
 (Slashed with CS 76101) Advanced algorithms, fast fourier transforms, algorithms on trees and graphs, rational and polynomial arithmetic, gcd, factoring, numerical and symbolic computational algorithms, Risch integration algorithm, pattern matching.  
**Prerequisite:** Graduate standing.  
**Schedule Type:** Lecture  
**Contact Hours:** 3 lecture  
**Grade Mode:** Standard Letter

**CS 66105 PARALLEL AND DISTRIBUTED ALGORITHMS 3 Credit Hours**  
 (Slashed with CS 76105) Introduces and evaluates important models of parallel (synchronous and asynchronous) and distributed computation, using basic searching, sorting, graph, matrix, numerical computing and computational geometry algorithms.  
**Prerequisite:** Graduate standing.  
**Schedule Type:** Lecture  
**Contact Hours:** 3 lecture  
**Grade Mode:** Standard Letter

**CS 66110 COMPUTATIONAL GEOMETRY 3 Credit Hours**  
 (Slashed with CS 76110) Geometric structures are the underlying model of several important applications, including robotics, graphics, CAD/CAM, VLSI layout, wireless networks and information visualization. Computational geometry studies algorithms for geometric problems.  
**Prerequisite:** CS 56101; and graduate standing.  
**Schedule Type:** Lecture  
**Contact Hours:** 3 lecture  
**Grade Mode:** Standard Letter

**CS 67101 ADVANCED COMPUTER GRAPHICS 3 Credit Hours**  
 (Slashed with CS 77101) In-depth study of active research topics in computer graphics. Topics include volume rendering, image-based rendering and modeling, graphics architectures, virtual reality, modeling in computer graphics, non-photorealistic rendering, computer animation and computer games.  
**Prerequisite:** Graduate standing.  
**Schedule Type:** Lecture  
**Contact Hours:** 3 lecture  
**Grade Mode:** Standard Letter

**CS 67301 SCIENTIFIC VISUALIZATION 3 Credit Hours**  
 (Slashed with CS 77301) Discusses the visualization of scientific, engineering and medical data sets. Introduces mechanisms to acquire sampled or computed data and points out methods to transform these data into the visual system.  
**Prerequisite:** Graduate standing.  
**Schedule Type:** Lecture  
**Contact Hours:** 3 lecture  
**Grade Mode:** Standard Letter



**CS 67302 INFORMATION VISUALIZATION 3 Credit Hours**

(Slashed with CS 77302) Information visualization is the science that unveils the underlying structure of data sets using visual representations that utilize the powerful processing capabilities of the human visual perceptual system. In this class, we will study algorithms and systems for visually exploring, understanding, and analyzing large, complex data sets. Information visualization focuses on abstract data such as symbolic, tabular, networked, hierarchical, or textual information sources. The objectives of the course are to learn the principles involved in information visualization and a variety of existing techniques and systems. The students will also gain backgrounds and skills that will aid the design of new, innovative visualizations in realistic applications.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CS 69098 RESEARCH 1-5 Credit Hours**

(Repeatable for credit) Research or individual investigation. Credits are applied toward degree requirements with approval if grade of 'S' is given.

**Prerequisite:** Graduate standing.

**Schedule Type:** Research

**Contact Hours:** 1-5 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**CS 69099 CAPSTONE PROJECT 3-6 Credit Hours**

The course is an integrative experience that brings together all components of the Masters nonthesis graduate program in an applied, hands-on real-world setting.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Project or Capstone

**Contact Hours:** 3-6 other

**Grade Mode:** Standard Letter-IP

**CS 69191 MASTER'S SEMINAR 1-2 Credit Hours**

(Repeatable for credit) Seminar for masters students to present and discuss computer science related research and academics. Masters students are required to take at least 2 credit hours for completion of degree and make at least one presentation of project work or research. Only two credits count towards the masters degree.

**Prerequisite:** Computer Science major within the Master of Arts or Master of Science degree.

**Schedule Type:** Seminar

**Contact Hours:** 1-2 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**CS 69192 GRADUATE INTERNSHIP 1-3 Credit Hours**

Supervised experience in the chosen graduate program. Since this work will be outside the department, a report and a final presentation will be required.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Practical Experience

**Contact Hours:** 1-3 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**CS 69199 THESIS I 2-6 Credit Hours**

Thesis student must register for total of 6 hours, 2 to 6 hours in a single semester distributed over several semesters if desired.

**Prerequisite:** Graduate standing.

**Schedule Type:** Masters Thesis

**Contact Hours:** 2-6 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**CS 69299 THESIS II 2 Credit Hours**

Thesis students must continue registration each semester until all degree requirements are met.

**Prerequisite:** CS 69199; and graduate standing.

**Schedule Type:** Masters Thesis

**Contact Hours:** 2 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**CS 69995 SPECIAL TOPICS IN COMPUTER SCIENCE 1-3 Credit Hours**

(Repeatable for credit) (Slashed with CS 79995) Special topics in computer science.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 1-3 lecture

**Grade Mode:** Standard Letter

**CS 70094 COLLEGE TEACHING OF COMPUTER SCIENCE 1 Credit Hour**

(Repeatable for credit) (Slashed with CS 60094) Techniques and problems of college teaching of computer science. Student presentation of computer science papers will be included.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 1 lecture

**Grade Mode:** Standard Letter-S/U

**CS 72263 NUMERICAL SOLUTION OF LARGE SPARSE LINEAR SYSTEMS 3 Credit Hours**

(Slashed with CS 62263) (Cross-listed with MATH 62263 and MATH 72263) Construction and analysis of iterative methods for large systems of linear algebraic equations. Jacobi, Gauss-Seidel, SOR. Polynomial acceleration methods, conjugate gradients. Multi-grid methods.

**Prerequisite:** MATH 51021 and CS 52202; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CS 72264 NUMERICAL SOLUTION OF NONLINEAR SYSTEMS 3 Credit Hours**

(Slashed with CS 62264) (Cross-listed with MATH 62264 and MATH 72264) Construction and analysis of numerical methods for systems of non linear algebraic equations and optimization problems. Numerical implementation and software.

**Prerequisite:** MATH 52041 and CS 52202; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CS 73005 ADVANCED DATABASE SYSTEMS DESIGN 3 Credit Hours**

(Slashed with CS 63005) Introduction to a variety of advanced database topics and on-going trends in modern database systems. The course includes advanced issues of object-oriented database, XML, advanced client server architecture and distributed database techniques.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter



**CS 73015 DATA MINING TECHNIQUES 3 Credit Hours**

(Slashed with CS 63015) Concepts and techniques of data mining. Data mining is a process of discovering information from a set of large databases. This course takes a database perspective on data mining.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CS 73016 BIG DATA ANALYTICS 3 Credit Hours**

Introduces computing platforms with the focus on how to utilize them in processing, managing and analyzing massive datasets. The course will utilize several key data processing tasks, including simple statistics, data aggregation, join processing, frequent pattern mining, data clustering, information retrieval, pagerank, and massive graph analytics as the case study for large scale data processing.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CS 73017 BIG DATA MANAGEMENT 3 Credit Hours**

This course will cover a series of important Big-Data-related problems and their solutions. Specifically, we will introduce the characteristics and challenges of the Big Data, state-of-the-art computing paradigm and platforms (e.g., MapReduce), big data programming tools (e.g., Hadoop and MongoDB), big data extraction and integration, big data storage, scalable indexing for big data, big graph processing, big data stream techniques and algorithms, big probabilistic data management, big data privacy, big data visualizations, and big data applications (e.g., spatial, finance, multimedia, medical, health, and social data).

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CS 73018 PROBABILISTIC DATA MANAGEMENT 3 Credit Hours**

(Slashed with CS 63018) This course addresses the fundamental concepts and techniques for probabilistic data management in the area of databases. Probabilistic data are pervasive in many real-world applications, such as sensor networks, GPS system, location-based services, mobile computing, multimedia databases, data extraction and integration, trajectory data analysis, semantic web, and privacy preserving. This class also covers major research topics such as probabilistic or uncertain data models, probabilistic queries, probabilistic query answering techniques, and data quality issues in databases.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CS 73100 COMPUTATIONAL HEALTH INFORMATICS 3 Credit Hours**

(Slashed with CS 63100) The course describes computational techniques and software tools for managing and transmitting health related information and automated analysis of medical and biosignal data.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CS 73118 GRAPH SOCIAL NETWK ANALYSIS 3 Credit Hours**

(Slashed with CS 43118 and CS 53118) This course covers a number of important and useful ideas in graph databases, especially in social networks (e.g. the data model for certain-uncertain graphs), indexing over graphs, and query processing algorithms for graph databases (e.g., single-source path queries, path queries, reachability queries, keyword search queries, subgraph matching, etc.). The influence maximization problems over social networks in real applications are also discussed as well as various queries over the distributed graph database.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CS 73201 ADVANCED OPERATING SYSTEMS 3 Credit Hours**

(Slashed with CS 63201) Introduction to distributed systems, interprocess communication, distributed mutual exclusion, synchronization and deadlock, distributed process management and distributed file systems.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CS 73301 PARALLEL AND DISTRIBUTED COMPUTING 3 Credit Hours**

(Slashed with CS 63301) Overview of parallel and distributed computing; structuring parallel and distributed programs; parallel programming using simd spmd mimd and, associative computing parallel and distributed architecture using existing machines as case studies.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CS 73302 ALGORITHMIC ROBOTICS 3 Credit Hours**

(Slashed with CS 43302 and CS 53302) This course provides students theoretical, mathematical, and practical foundations for the design, analysis, and evaluation of algorithms for robots for diverse robotic applications. We will focus on a principled and mathematically sound approach to the design of algorithms for robots rather than ad hoc and hacking development approaches.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CS 73303 INTERNET OF THINGS 3 Credit Hours**

(Slashed with CS 43303 and CS 53303) This course will provide a comprehensive understanding of the Internet of Things by looking into a variety of real-world application scenarios, existing and new technologies and architectures, communication protocols and standardization efforts, societal and behavioral changes, and how to apply these technologies to tackle real-world problems.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CS 73304 CLUSTER COMPUTING 3 Credit Hours**

(Slashed with CS 63304) This course will investigate clusters of computers as a computing platform, hardware and software tradeoffs for clusters and application performance and programming of clusters.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CS 73305 MULTICORE COMPUTING 3 Credit Hours**

(Slashed with CS 63305) Starting about 2005, hardware architects began putting more than one processing core on a single chip, leading to the recent rapid advancements in multicore processor architectures. This shift has changed almost everything ranging from memory hierarchy and consistency to programming those architectures. The goal of this course is to study multicore processor architectures from the perspective of hardware, software, and algorithm design, the challenges, and the technologies that are relevant to those architectures.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CS 73306 EMBEDDED COMPUTING 3 Credit Hours**

(Slashed with CS 63306) Computational issues structuring programs for processors embedded in other devices such as those found in automobiles and biological chemical sample processing devices.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CS 73334 HUMAN-ROBOT INTERACTION 3 Credit Hours**

(Slashed with CS 43334 and CS 53334) Human-Robot Interaction (HRI) is the study of interactions between humans and robots dedicated to understanding, designing, and evaluating robotic systems for use by and with humans. HRI is a multidisciplinary field that incorporates human-computer interaction, artificial intelligence, robotics, natural language understanding, design, and social sciences. Interaction between humans and robots may take several forms, but are generally categorized by how close in proximity the humans and robots are to each other such as remote, proximate, and hybrid interaction. In the class, students will learn the fundamental technologies and theories in each category, and blend this knowledge with various case studies and lab activities.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CS 73901 SOFTWARE ENGINEERING METHODOLOGIES 3 Credit Hours**

(Slashed with CS 63901) Software process models; modeling languages; software process improvement; requirement analysis and elicitation; advanced systems and architectural design; estimation; verification and validation reuse; and metrics.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CS 73902 SOFTWARE EVOLUTION 3 Credit Hours**

(Slashed with CS 63902) Methods and techniques supporting later lifecycle activities, including software testing and maintenance reuse and reverse engineering.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CS 74201 ADVANCED ARTIFICIAL INTELLIGENCE 3 Credit Hours**

(Slashed with CS 64201) Additional topics in AI such as logic programming, advanced problem-solving systems, understanding natural languages, vision, learning, plan generating systems.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CS 74301 PATTERN RECOGNITION PRINCIPLES 3 Credit Hours**

(Slashed with CS 64301) Introduction to mathematical pattern recognition, feature selection, distribution-free classification, statistical classification, nonsupervised learning, sequential learning and application.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CS 74401 IMAGE PROCESSING 3 Credit Hours**

(Slashed with CS 64401) This course covers digital processing of digital imagery. Digitization of TV imagery, noise removal, image enhancement, edge and texture detection, object recognition and scene analysis.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CS 74402 MULTIMEDIA SYSTEMS AND BIOMETRICS 3 Credit Hours**

(Slashed with CS 64402) This course discusses computational techniques for fusion of multimedia data collected by sensors for human-identification using automated analysis of biometric signals.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CS 75101 ADVANCED COMPUTER ARCHITECTURE 3 Credit Hours**

(Slashed with CS 65101) System performance measures, processor implementation, pipelining, system interconnection, memory hierarchy interrupts, stack architecture, vector and multiprocessors.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CS 75202 ADVANCED COMMUNICATION NETWORKS 3 Credit Hours**

(Slashed with CS 65202) This course covers central problems that confront network designers in high-speed networking such as real-time traffic, congestion control, quality of service (QoS), performance analysis, traffic management and internet routing.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CS 75203 WIRELESS AND MOBILE COMMUNICATION NETWORKS 3 Credit Hours**

(Slashed with CS 65203) Examines how wireless systems work and how mobile systems are supported by the underlying network infrastructure. Course covers the architecture and the interactions among different functional units in wireless and mobile systems.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CS 75301 SYSTEM MODELING AND PERFORMANCE EVALUATION 3 Credit Hours**

(Slashed with CS 65301) Provides a detailed study of queuing, network models and their application to operating systems, computer time sharing and multi-access systems.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CS 76101 ADVANCED TOPICS IN ALGORITHMS 3 Credit Hours**

(Slashed with CS 66101) Advanced algorithms, fast Fourier transforms, algorithms on trees and graphs, rational and polynomial arithmetic, GCD, factoring, numerical and symbolic computational algorithms, Rischintegration algorithm, pattern matching.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CS 76105 PARALLEL AND DISTRIBUTED ALGORITHMS 3 Credit Hours**

(Slashed with CS 66105) Introduces and evaluates important models of parallel (synchronous and asynchronous) and distributed computation, using basic searching, sorting, graph, matrix, numerical computing and computational geometry algorithms.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CS 76110 COMPUTATIONAL GEOMETRY 3 Credit Hours**

(Slashed with CS 66110) Geometric structures are the underlying model of several important applications, including robotics, graphics, CAD/CAM, VLSI layout, wireless networks and information visualization. Computational geometry studies algorithms for geometric problems.

**Prerequisite:** CS 56101; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CS 77101 ADVANCED COMPUTER GRAPHICS 3 Credit Hours**

(Slashed with CS 67101) In-depth study of active research topics in computer graphics. Topics include volume rendering, image-based rendering and modeling, graphics architectures, virtual reality, modeling in computer graphics, non-photorealistic rendering, computer animation and computer games.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CS 77301 SCIENTIFIC VISUALIZATION 3 Credit Hours**

(Slashed with CS 67301) Discusses the visualization of scientific, engineering and medical data sets. Introduces mechanisms to acquire sampled or computed data and points out methods to transform these data into the visual system.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CS 77302 INFORMATION VISUALIZATION 3 Credit Hours**

(Slashed with CS 67302) Information visualization is the science that unveils the underlying structure of data sets using visual representations that utilize the powerful processing capabilities of the human visual perceptual system. In this class, we will study algorithms and systems for visually exploring, understanding, and analyzing large, complex data sets. Information visualization focuses on abstract data such as symbolic, tabular, networked, hierarchical, or textual information sources. The objectives of the course are to learn the principles involved in information visualization and a variety of existing techniques and systems. The students will also gain backgrounds and skills that will aid the design of new, innovative visualizations in realistic applications.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CS 79995 SPECIAL TOPICS IN COMPUTER SCIENCE 1-3 Credit Hours**

(Repeatable for credit) (Slashed with CS 69995) Special topics in computer science.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 1-3 lecture

**Grade Mode:** Standard Letter

**CS 89098 RESEARCH 1-15 Credit Hours**

(Repeatable for credit) Research or individual investigation for doctoral students who have not yet passed their candidacy examinations.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Research

**Contact Hours:** 1-15 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**CS 89191 DOCTORAL SEMINAR 1-2 Credit Hours**

(Repeatable for credit) Seminar for doctoral students to present and discuss computer science related research and academics. Doctoral students are required to take at least 3 credit hours for completion of degree and make at least two presentations of project work or research. Only two credits count towards the doctoral degree.

**Prerequisite:** Computer Science major within the Doctor of Philosophy degree.

**Schedule Type:** Seminar

**Contact Hours:** 1-2 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**CS 89199 DISSERTATION I 15 Credit Hours**

(Repeatable for credit) Doctoral dissertation, for which registration in at least two semesters is required, first of which will be semester in which dissertation work is begun and continuing until the completion of 30 hours.

**Prerequisite:** Doctoral standing; and special approval.

**Schedule Type:** Dissertation

**Contact Hours:** 15 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**CS 89299 DISSERTATION II 15 Credit Hours**

(Repeatable for credit)Continuing registration required for doctoral students who have completed the initial 30 hours of dissertation and continuing until all degree requirements are met.

**Prerequisite:** CS 89199; and doctoral standing.

**Schedule Type:** Dissertation

**Contact Hours:** 15 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**CS 89991 RESEARCH SEMINAR IN COMPUTER SCIENCE 1-3 Credit Hours**

(Repeatable for credit)Research seminar on current research in computer science.

**Prerequisite:** Doctoral standing; and special approval.

**Schedule Type:** Seminar

**Contact Hours:** 1-3 other

**Grade Mode:** Standard Letter

## Construction Management (CMGT)

**CMGT 10001 INTRODUCTION TO CONSTRUCTION MANAGEMENT 3 Credit Hours**

Serves to introduce the basic terms, concepts, procedures and current trends in the construction industry.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CMGT 11044 CONSTRUCTION SAFETY 3 Credit Hours**

The theories and principles of construction safety and health applied to real-world setting. Upon completion of course materials and required attendance hours, students receive their OSHA 30 certification.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CMGT 11071 CONSTRUCTION MATERIALS AND METHODS I 3 Credit Hours**

An introduction to principles of building construction, including preparation for the structures and environmental control sequences. Includes a more detailed and systematic look at wood light-frame construction.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CMGT 21071 CONSTRUCTION MATERIALS AND METHODS II 3 Credit Hours**

Ties together steel and concrete structural systems and the integration of building service systems, with a focus on the construction and detailing of building enclosure systems.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CMGT 22200 CONSTRUCTION DOCUMENT READING 3 Credit Hours**

The reading and understanding of the drawings that are used to communicate information about commercial and residential buildings.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CMGT 25000 PRINCIPLES OF LEED 1 Credit Hour**

Review of the green building rating system Leadership in Energy and Environmental Design (LEED) as it applies to the construction industry. Focus on preparation for the LEED Green Associate exam.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 1 lecture

**Grade Mode:** Standard Letter

**CMGT 31015 CONSTRUCTION TECHNOLOGY 3 Credit Hours**

Course provides basic concepts and practices of the construction industry, including estimating, materials, tools, techniques and production of residential construction.

**Prerequisite:** None.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 1 lecture, 4 lab

**Grade Mode:** Standard Letter

**CMGT 31023 CONSTRUCTION SURVEYING 3 Credit Hours**

The study of surveying, including fieldwork, using state-of-the-art equipment and its relationship to the construction documents.

**Prerequisite:** CMGT 22200.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 2 lecture, 2 lab

**Grade Mode:** Standard Letter

**Attributes:** TAG Engineering Technology

**CMGT 31033 MECHANICAL SYSTEMS 3 Credit Hours**

An overview of mechanical systems in commercial and residential buildings.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CMGT 31040 ELECTRICAL SYSTEMS FOR CONSTRUCTION MANAGERS 3 Credit Hours**

An overview of electrical systems in commercial and residential buildings.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CMGT 31044 ADVANCED CONSTRUCTION SAFETY AND MANAGEMENT 3 Credit Hours**

Course enables students to be able to properly manage the construction safety techniques and practices they learned in CMGT 11044. Course provides the opportunity for students to learn how to utilize management skills to lead and implement an effective construction safety program.

**Prerequisite:** CMGT 11044.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CMGT 31045 CONSTRUCTION RISK MANAGEMENT 3 Credit Hours**

Course provides an in-depth study of various risks associated with construction projects, and how those risks affect the construction industry. Topics of discussion include analytical and management techniques used to identify, analyze and respond to risks. Students review actual legal case studies and develop written opinion papers.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CMGT 31046 INTRODUCTION TO INSURANCE AND WORKER'S COMPENSATION 3 Credit Hours**

Introduction to construction-related insurance products and worker's compensation practices and policies. Course provides the understanding of the legal, management and costing implications associated with each of these, both prior to and during a construction project.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CMGT 32001 PROPOSAL DEVELOPMENT AND ANALYSIS 3 Credit Hours**

(Repeatable for credit) Students create and combine project management, safety and quality control plans to prepare quantity takeoffs and schedule for a construction project, in the form of a construction proposal and presentation. Further analysis is done on general construction proposals.

**Prerequisite:** CMGT 10001; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CMGT 33092 CONSTRUCTION MANAGEMENT INTERNSHIP (ELR) (WIC) 1-3 Credit Hours**

(Repeatable for credit) Supervised work-study experience in an approved construction-related business that is relative to a student's program. The course can be taken for 3 credit hours in the semester for full time employment (450+ total hours) or 2 credit hour for part-time employment (300-450 total hours). Repeatable to maximum of 6 credits. To repeat the course for credit, the student must assume a different position or responsibilities if employed by the same organization, or the student must be employed by a different company.

**Prerequisite:** Minimum 2.250 overall GPA; and Construction Management major or minor; and sophomore standing.

**Schedule Type:** Practical Experience

**Contact Hours:** 10-30 other

**Grade Mode:** Standard Letter

**Attributes:** Experiential Learning Requirement, Writing Intensive Course

**CMGT 37295 SPECIAL TOPICS IN CONSTRUCTION MANAGEMENT 1-3 Credit Hours**

Analysis of significant and current issues in construction management not covered in regular courses. Offered when opportunities and resources permit; the topic is announced when the course is scheduled.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 1-3 lecture

**Grade Mode:** Standard Letter

**CMGT 41040 CONSTRUCTION ESTIMATING I 3 Credit Hours**

(Slashed with CMGT 51040) Introduction to estimating and the quantity takeoff process needed to complete accurate estimates for all types of construction projects. Students must have the ability to read and understand construction drawings.

**Prerequisite:** CMGT 22200.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CMGT 41041 CONSTRUCTION ESTIMATING II 3 Credit Hours**

(Slashed with CMGT 51041) Course covers putting costs to the project, finalizing the bid, incorporating the estimate into the schedule, buying out the project, bidding ethics and using computer spreadsheets, including Excel, to automate estimating functions.

**Prerequisite:** CMGT 41040.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CMGT 41047 FUNDAMENTALS OF INDUSTRIAL AND CONSTRUCTION HYGIENE 3 Credit Hours**

Focuses on the environmental, community and occupational health issues within facilities and construction sites. Course provides the opportunity for students to recognize, evaluate and control occupational hazards.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CMGT 41048 OCCUPATIONAL SAFETY AND HEALTH LAW 3 Credit Hours**

Course focuses on general legal doctrine and practical considerations of the Occupational Safety and Health Act (OSHA). Covers the scope of the act, duties under the act, enforcement, adjudication and OSHA-related litigation.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CMGT 42030 BUILDING INFORMATION MODELING FOR CONSTRUCTION MANAGERS 3 Credit Hours**

Course reinforces and investigate the usage of building information modeling (BIM) as a construction management tool. Students create BIM models, with scheduling and cost loading, to understand how BIM usage is maximized within the built environment. Student utilizes software applications to create the BIM model and integrate the construction schedule and estimate.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter



**CMGT 42050 INTERNATIONAL CONSTRUCTION MANAGEMENT 3 Credit Hours**

Course focuses on the culture and management of international design and construction operations, with an emphasis on business development, financing, planning, contracts and negotiations, special construction techniques in adverse environments, procurement and logistics. A short-term study abroad trip is included in the course.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CMGT 42051 ALTERNATIVE ENERGY SYSTEMS IN BUILDING DESIGN 3 Credit Hours**

Course focuses on the construction application of alternative mechanical, electrical and plumbing systems in the built environment. Emphasis on energy efficient systems, energy conservation, cost benefits, building issues and construction techniques to develop these systems.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CMGT 42052 MECHANICAL AND ELECTRICAL ESTIMATING 3 Credit Hours**

Course focuses on estimating mechanical, electrical, plumbing and fire protection systems for the built environment. Covers detailed estimating practices of mechanical systems, including indirect costs, direct costs, bidding strategies, piping, pumps, plumbing systems, fire protection, HVAC, ductwork, insulation, automatic temperature controls, supports and manpower.

**Prerequisite:** CMGT 31033 and CMGT 31040.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CMGT 42053 SUBCONTRACTOR LEADERSHIP AND PRACTICES 3 Credit Hours**

Course focuses on the leadership, operations and overall management of construction subcontractor companies. Emphasis on how subcontractor leaders can avoid mistakes and manage risk to make their scopes of work run more intelligently, effectively and efficiently.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CMGT 42054 CIVIL ESTIMATING 3 Credit Hours**

Course provides an in-depth review and application of civil construction estimating techniques and technology associated with civil estimating practices. Course covers site work, site utilities, substructures and heavy equipment estimating.

**Prerequisite:** CMGT 10001 and CMGT 41040.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CMGT 42055 CIVIL UTILITY SYSTEMS 3 Credit Hours**

Course discusses the installation, construction, renewal, estimating and management of underground utility systems. Maintains an emphasis on minimal soil and environmental disturbance.

**Prerequisite:** CMGT 10001.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CMGT 42056 SOILS AND MATERIALS 3 Credit Hours**

Building on previous knowledge of construction, students explore the nature of soils and how they can influence construction operations, soil safety, soils within the construction contract, soil classifications, soil strengths and specification sections tied to soils and materials.

**Prerequisite:** CMGT 10001.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CMGT 42105 CONSTRUCTION CONTRACTS AND LAW 3 Credit Hours**

(Slashed with CMGT 52105) Course covers the fundamentals of construction contracts and law; the impact of information technology on contracts and contracting; and the effect of contracts and law on the management, administration and costs of construction work.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CMGT 42107 CONSTRUCTION SCHEDULING 3 Credit Hours**

(Slashed with CMGT 52107) The traditional theory of planning, scheduling and controlling construction projects. Current industry standard computer applications for scheduling are utilized.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CMGT 42110 CONSTRUCTION MANAGEMENT CAPSTONE 3 Credit Hours**

The application of all previous construction management courses and experiences to ensure all major learning objectives have been obtained, and that these learning objectives can be applied to performance similar to industry practices.

**Prerequisite:** Senior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CMGT 43096 INDIVIDUAL INVESTIGATION IN CONSTRUCTION MANAGEMENT 1-3 Credit Hours**

(Repeatable for credit) Independent study carried out by a student under the supervision of a faculty member. Subject content, objectives, assignments and evaluation methods may vary.

**Prerequisite:** Junior standing; and special approval.

**Schedule Type:** Individual Investigation

**Contact Hours:** 3-9 other

**Grade Mode:** Standard Letter

**CMGT 51040 CONSTRUCTION ESTIMATING I 3 Credit Hours**

(Slashed with CMGT 51040) Introduction to estimating and the quantity takeoff process needed to complete accurate estimates for all types of construction projects. Students must have the ability to read and understand construction drawings.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CMGT 51041 ADVANCED ESTIMATING 3 Credit Hours**

(Slashed with CMGT 41041) Course covers putting costs to the project, finalizing the bid, incorporating the estimate into the schedule, buying out the project, bidding ethics and using computer spreadsheets, including Excel, to automate estimating functions.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CMGT 52105 CONSTRUCTION CONTRACTS AND LAW 3 Credit Hours**

(Slashed with CMGT 42105) Course covers the fundamentals of construction contracts and law; the impact of information technology on contracts and contracting; and the effect of contracts and law on the management, administration and costs of construction work.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CMGT 52107 CONSTRUCTION SCHEDULING 3 Credit Hours**

(Slashed with CMGT 42107) The traditional theory of planning, scheduling and controlling construction projects. Current industry standard computer applications for scheduling are utilized.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CMGT 52110 ADVANCED CONSTRUCTION MANAGEMENT 3 Credit Hours**

A comprehensive application of construction management principles and practices to various situations and projects according to construction industry methods and performance standards.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CMGT 62030 BUILDING INFORMATION MODELING FOR CONSTRUCTION MANAGEMENT 3 Credit Hours**

Course reinforces and investigate the usage of building information modeling (BIM) as a construction management tool. Students create BIM models, with scheduling and cost loading, to understand how BIM usage is maximized within the built environment. Student utilizes software applications to create the BIM model and integrate the construction schedule and estimate. Students also perform research on the application of BIM in the industry.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CMGT 62040 CONSTRUCTION METHODS IMPROVEMENTS 3 Credit Hours**

A focused study of the philosophy and principles of quality management as applied to the construction industry. Course presents a project-based approach to the principles and practices of Total Quality Management (TQM) in construction projects and the application of TQM and other quality measures during different phases of the construction process.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CMGT 62050 INTERNATIONAL CONSTRUCTION MANAGEMENT 3 Credit Hours**

Topics include operating and sustaining an international business or business presence, the global market, project funding, case studies and best practices. Course includes project-specific case studies.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CMGT 62060 NEGOTIATION IN THE BUILT ENVIRONMENT 3 Credit Hours**

Examination of negotiation theories, strategies and tactics as applied to transactions in the construction and technological environments.

Establishment of win-win environment in dealing with the project parties by adopting creative means to solve problems and resolve disputes.

Practice through negotiation case studies, scenarios and role playing.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CMGT 62070 ENGINEERING ECONOMICS AND STRATEGIC DECISION MAKING 3 Credit Hours**

Application of engineering economic principles related to evaluating alternative solutions, replacement decisions and retention decisions.

Includes decision and risk analysis, sensitivity analysis, expected value, benefit cost analysis, public sector economics, economic cycle, operation research, strategic management and entrepreneurship in the technological environment.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CMGT 62080 ADVANCED CONSTRUCTION RISK MANAGEMENT 3 Credit Hours**

This course provides an in-depth study of various risks associated with construction projects, and how those risks affect the construction industry. This course prepares leaders to make decisions that affect individual projects and the organization as a whole. Topics of discussion include analytical and management techniques used to identify, analyze, and respond to construction risks. Students review case studies, texts, and use instructor examples of how to identify and mitigate risks.

**Prerequisite:** Graduate Standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CMGT 65099 MASTER PROJECT IN CONSTRUCTION MANAGEMENT 3 Credit Hours**

This course is the application of all previous construction management courses and experiences to ensure all major learning objectives have been obtained, and that these learning objectives can be applied to performance similar to industry best practices.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Project or Capstone

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CMGT 67295 SPECIAL TOPICS IN CONSTRUCTION MANAGEMENT****1-4 Credit Hours**

Analysis of significant and current issues in construction management not covered in regular courses. Offered when opportunities and resources permit; the topic is announced when the course is scheduled.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 1-4 lecture

**Grade Mode:** Standard Letter

**CMGT 67296 INDIVIDUAL INVESTIGATION IN CONSTRUCTION MANAGEMENT 1-3 Credit Hours**

Independent study carried out by a student under the supervision of a faculty member. Subject content, objectives, assignments and evaluation methods may vary.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Individual Investigation

**Contact Hours:** 3-9 other

**Grade Mode:** Standard Letter-IP

**CMGT 67320 APPLIED SUSTAINABILITY IN CONSTRUCTION MANAGEMENT 3 Credit Hours**

Investigation of strategies and methods used by construction managers and others to assist in developing sustainable built environments. Course takes a close look at standards for environmentally sustainable construction and at the application of best management practices for construction activities. Focus is on LEED certification, international standards on environmental management systems and other established criteria, guidelines, standards and tools associated with green building. Provides an in-depth discussion and practical application of LEED assessment, guidelines and standards for various building sectors. Includes a major individual design project/case study involving research in green construction and design on a particular construction project, along with the application of LEED guidelines, assessment and methods to the project.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

## Cooperative Education (COOP)

**COOP 20092 COOPERATIVE EDUCATION (ELR) 0 Credit Hours**

Limited to students on approved, full-time cooperative work assignments. No academic credit or grade is awarded for the assignment.

**Prerequisite:** Special approval.

**Schedule Type:** Cooperative Education

**Contact Hours:** 0 other

**Grade Mode:** Complete/Not Complete

**Attributes:** Experiential Learning Requirement

## Counselor Education and Supervision (CES)

**CES 20092 FIELD EXPERIENCE I: MIDDLE CHILDHOOD (ELR) 1****Credit Hour**

(Repeatable for credit) Course augments from an experiential perspective knowledge of early adolescence period of development. Placement in school settings (30 hrs.).

**Corequisite:** HDFS 24013.

**Schedule Type:** Field Experience

**Contact Hours:** 3 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**Attributes:** Experiential Learning Requirement

**CES 34650 PRACTICES AND THEORIES IN ADDICTIONS COUNSELING 3 Credit Hours**

Review of historical and contemporary theories and models of addiction (e.g., disease, behavioral, public health, family systems), as well as recommended practices in addictions counseling. Pharmacology and sociocultural factors emphasized. Implications for prevention, treatment, and policy are considered.

**Prerequisite:** CES 37662.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CES 34654 EVIDENCE-BASED APPROACHES IN ADDICTIONS COUNSELING 3 Credit Hours**

Intensive study of a select number of evidence-based or empirically-supported approaches in addictions counseling, including cognitive-behavioral and systems and family approaches. Didactic and experiential training methods used to promote practice with fidelity.

**Prerequisite:** CES 37665.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CES 37662 INTRODUCTION TO ADDICTIONS COUNSELING 3 Credit Hours**

Introduction to fundamental concepts and recommended practices in addictions counseling today, including pharmacology, screening and assessment, facilitating individual and group services, and ethical and legal considerations. Meets minimum training requirements for State of Ohio credentialing eligibility as a chemical dependency counselor assistant.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CES 37665 PLANNING CARE IN ADDICTIONS COUNSELING 3 Credit Hours**

Assessment and diagnosis of substance use disorders, and formulation of comprehensive and individualized care plans. Consideration of client dimensions and appropriate care levels, and emphasis on collaborative and coordinated care.

**Prerequisite:** CES 34650.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CES 37668 INTRODUCTION TO MOTIVATIONAL INTERVIEWING 3 Credit Hours**

Introduction to motivational interviewing (MI), a strengths-based and evidence-based practice designed to facilitate the self-directed and beneficial change of others in a variety of health behaviors. Practice of MI-consistent skills with immediate feedback, use of MI coding scheme to evaluate MI-consistency, and emphasis on continuous learning and skill-building.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CES 37692 ADDICTIONS COUNSELING PRACTICUM (ELR) 4-9 Credit Hours**

(Repeatable for credit) Field-based experiential training and supervised practice of addictions counseling with individual and group clients. Practicum site must be approved by CES program. Individual supervision must be supplied onsite (at location of practicum) by licensed behavioral health care provider approved by CES program. Six or seven class sessions per academic term that focus on theory- and training-to-practice implementation, professional role development, ensuring ethical practice, and self-care. Students are required to complete Bureau of Criminal Investigation and Identification (BCII) and Federal Bureau of Investigation (FBI) background checks and submit results to authorized personnel at practicum site prior to first day of academic term in which practicum will take place.

**Prerequisite:** CES 34654 or CES 37665.

**Schedule Type:** Lecture, Practical Experience

**Contact Hours:** 1 lecture, 21-56 other

**Grade Mode:** Standard Letter-IP

**Attributes:** Experiential Learning Requirement

**CES 37800 SMALL GROUP PROCESS 2 Credit Hours**

(Cross-listed with HED 34060) Students learn to understand the dynamics of problem-solving groups and how to become effective leaders and members. Topics include climate, goals, decision making, communication, leadership, membership. Experience-based learning combined with conceptualizing.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**CES 40093 VARIABLE TITLE WORKSHOP IN COUNSELOR EDUCATION AND SUPERVISION 1-4 Credit Hours**

(Repeatable for a maximum of 6 credit hours) Topics of special interest to students who desire to increase their knowledge in counseling and related areas. Kent faculty and experts from other institutions and agencies. Topics will be announced in the schedule of classes booklet.

**Prerequisite:** None.

**Schedule Type:** Workshop

**Contact Hours:** 1-4 other

**Grade Mode:** Satisfactory/Unsatisfactory

**CES 44084 BEHAVIORAL SCIENCE IN HEALTH PROFESSIONS 1-3 Credit Hours**

(Repeatable for a maximum of 12 hours) Behavioral science perspective on individual and social issues affecting medical care delivery. Individually arranged. May include field projects participation in health related investigations and presentations and personal development programs.

**Prerequisite:** Special approval.

**Schedule Type:** Lecture

**Contact Hours:** 1-3 lecture

**Grade Mode:** Standard Letter

**CES 50093 VARIABLE TITLE WORKSHOP IN COUNSELOR EDUCATION AND SUPERVISION 1-4 Credit Hours**

(Repeatable for credit) (Slashed with CES 70093) Workshops and training laboratories in various aspects of counseling, guidance and personnel services for counselors, supervisors, administrators and paraprofessionals. Prospective enrollees not currently admitted to graduate school may obtain special admission for graduate credit in a workshop. Topics are announced in brochures of college of continuing studies. Limit of 6 hours with adviser's permission toward any degree program.

**Prerequisite:** Graduate standing.

**Schedule Type:** Workshop

**Contact Hours:** 1-4 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**CES 60193 VARIABLE TITLE WORKSHOP IN CLINICAL REHABILITATION COUNSELING 1-4 Credit Hours**

(Repeatable for credit)(Slashed with CES 70193) Variable topic workshop designed to respond to emerging or specialized needs in clinical rehabilitation counseling.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Workshop

**Contact Hours:** 1-4 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**CES 60199 THESIS I 2-6 Credit Hours**

(Repeatable for credit) Thesis students must register for a total of 6 hours, 2 to 6 hours in a single semester distributed over several semesters if desired.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Masters Thesis

**Contact Hours:** 2-6 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**CES 60299 THESIS II 2 Credit Hours**

(Repeatable for credit) Thesis students must continue registration each semester until all degree requirements are met.

**Prerequisite:** CES 60199; and graduate standing.

**Schedule Type:** Masters Thesis

**Contact Hours:** 2 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**CES 64084 BEHAVIORAL SCIENCE IN THE HEALTH PROFESSIONS 1-3 Credit Hours**

Behavioral science perspective on individual and social issues that affect medical care delivery. Individually arranged.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 1-3 lecture

**Grade Mode:** Standard Letter-IP

**CES 65511 RESEARCH IN COUNSELING 3 Credit Hours**

Introduction to purposes and practice of qualitative and quantitative research related to counseling. There will be emphasis on elements of conducting research and using products of research to support and enhance practice. Authentic examples from counseling will be used as illustration.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CES 67492 PRACTICUM I: CLINICAL MENTAL HEALTH COUNSELING 3 Credit Hours**

Students begin supervised practice of counseling with clients, primarily in The Counseling Center. Individual supervision and seminar discussion are used for the development of counseling skills, strategies and professional role.

**Prerequisite:** CES 67530 and CES 67531 and CES 67580 and CES 67663 and CES 67820 and CES 68126; and Clinical Mental Health Counseling major; and graduate standing.

**Schedule Type:** Practical Experience

**Contact Hours:** 16 other

**Grade Mode:** Standard Letter

**CES 67530 COUNSELING THEORIES 3 Credit Hours**

(Slashed with CES 77530) A survey of counseling practice that examines the nature of counseling process and relationships as described from major theoretical perspectives.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CES 67531 COUNSELING SKILLS AND TECHNIQUES 3 Credit Hours**

(Slashed with CES 77531) Didactic and experiential training in basic interviewing and counseling techniques prepares the student for practicum through role playing, videotaped feedback and simulation.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CES 67580 MULTICULTURAL COUNSELING 3 Credit Hours**

(Slashed with CES 77580) Seminar focused on sensitivities needed to work effectively with diverse clients. Consideration given to racism, oppression, poverty, ageism, gender, and relational affinity.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CES 67591 SEMINAR IN COUNSELOR EDUCATION AND SUPERVISION 1-3 Credit Hours**

(Repeatable for credit) Variable topic seminars considering problems, research and current practices for counselors and personnel workers. Topic to be announced in schedule of classes booklet.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Seminar

**Contact Hours:** 1-3 other

**Grade Mode:** Standard Letter

**CES 67592 PRACTICUM II: CLINICAL MENTAL HEALTH COUNSELING 3 Credit Hours**

(Repeatable for credit) (Slashed with CES 77592) Involves individual counseling and group work with appropriate populations. Caseload geared toward preparation for internship.

**Prerequisite:** CES 67492 and CES 67628 or 77628; and graduate standing.

**Schedule Type:** Practical Experience

**Contact Hours:** 16 other

**Grade Mode:** Standard Letter

**CES 67595 SPECIAL TOPICS IN COUNSELOR EDUCATION AND SUPERVISION 1-3 Credit Hours**

(Repeatable for credit) (Slashed with CES 87595) Presentation of topics of special interest to students in counselor education and supervision. Offered irregularly. Topics will be announced in schedule of classes booklet.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 1-3 lecture

**Grade Mode:** Standard Letter

**CES 67596 INDIVIDUAL INVESTIGATION IN COUNSELOR EDUCATION AND SUPERVISION 1-3 Credit Hours**

(Repeatable for credit) (Slashed with CES 87596) Student investigates one or more topics in counseling under supervision. Review selected literature beyond normal course coverage. Arrangements with instructor must be made prior to registration.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Individual Investigation

**Contact Hours:** 1-3 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**CES 67628 DIAGNOSIS IN COUNSELING 3 Credit Hours**

(Slashed with CHDS 77628) To develop diagnostic skills in interviewing and use of appropriate nosology in counseling diagnosis.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CES 67662 FOUNDATIONS OF ADDICTIONS COUNSELING 3 Credit Hours**

(Slashed with CES 77662) Introduction to fundamental concepts and recommended practices in addictions counseling, including pharmacology, screening and assessment, facilitating individual and group services, and ethical and legal considerations. Meets minimum training requirements for State of Ohio credentialing eligibility as a chemical dependency counselor assistant.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CES 67663 ORIENTATION AND ETHICS: CLINICAL MENTAL HEALTH COUNSELING 3 Credit Hours**

(Slashed with CES 77663) Attention is given to the identity, ethics, professional standards and organizations, and employment settings of the clinical mental health counselor. Models of problem definition, administrative structure and service delivery are explored.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter



**CES 67664 THEORIES AND PRACTICES IN ADDICTIONS COUNSELING 3 Credit Hours**

(Slashed with CES 77664) Review of historical and contemporary theories and models of addiction (e.g., disease, behavioral, public health, family systems), as well as recommended practices in addictions counseling. Pharmacology and sociocultural factors emphasized. Implications for prevention, treatment, and policy are considered.

**Prerequisite:** CES 67662; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CES 67665 TREATMENT PLANNING IN ADDICTIONS COUNSELING 3 Credit Hours**

(Slashed with CES 77665) Assessment and diagnosis of substance use disorders, and formulation of comprehensive and individualized care plans. Consideration of client dimensions and appropriate care levels, and emphasis on collaborative, coordinated, and ethical care.

**Prerequisite:** CES 67664; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CES 67666 EVIDENCE-BASED PRACTICES IN ADDICTIONS COUNSELING 3 Credit Hours**

(Slashed with CES 77666) Intensive study of a select number of evidence-based practices (EBPs) in addictions counseling for individuals, groups, and families, including cognitive-behavioral and systems and family approaches. Didactic and experiential training methods used to promote practice with fidelity.

**Prerequisite:** CES 67665; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CES 67668 MOTIVATIONAL INTERVIEWING 3 Credit Hours**

(Slashed with CES 77668) Introduction to motivational interviewing (MI), a strengths-based evidence-based practice designed to facilitate the self-directed and beneficial change of others in a variety of health behaviors. Practice of MI-consistent skills with immediate feedback, use of MI coding scheme to evaluate MI-consistency, and emphasis on continuous learning and skill-building.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CES 67692 PRACTICUM IN ADDICTIONS COUNSELING 3-6 Credit Hours**

(Slashed with CES 77692) Field-based experiential training and supervised practice of addictions counseling with individual and group clients. Practicum site must be approved by CES program. Individual supervision must be supplied onsite (at location of practicum) by licensed behavioral health care provider approved by CES program. Six to seven class sessions per academic term that focus on theory- and training-to-practice implementation, professional role development, ensuring ethical practice, and counselor self-care. Students are required to complete Bureau of Criminal Investigation and Identification (BCII) and Federal Bureau of Investigation (FBI) background checks and submit results to authorized personnel at practicum site prior to first day of academic term in which practicum will take place.

**Prerequisite:** CES 67665 or CES 67666; and graduate standing.

**Schedule Type:** Lecture, Practical Experience

**Contact Hours:** 1 lecture, 14-35 other

**Grade Mode:** Standard Letter-IP

**CES 67695 SPECIAL TOPICS IN CLINICAL MENTAL HEALTH COUNSELING 1-3 Credit Hours**

(Repeatable for credit) (Slashed with CES 77695) Presentations of special interest to students. Offered irregularly. Topics will be announced in schedule of classes booklet.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 1-3 lecture

**Grade Mode:** Standard Letter

**CES 67698 INDIVIDUAL RESEARCH IN CLINICAL MENTAL HEALTH COUNSELING 1-9 Credit Hours**

(Repeatable for credit) Student pursues research project on selected aspect of clinical mental health counseling under supervision of instructor. Arrangements with instructor must be made prior to registration. Credit hours to be fixed at registration time.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Research

**Contact Hours:** 1-9 other

**Grade Mode:** Satisfactory/Unsatisfactory

**CES 67712 ORIENTATION AND ETHICS: CLINICAL REHABILITATION COUNSELING 3 Credit Hours**

(Slashed with CES 77712) Introductory course surveys philosophy, history and legislation in rehabilitation, which is defined as a process, social movement and public mandate. Particular emphasis is given to the role and function of the rehabilitation counselor in the private and public sectors.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CES 67723 MEDICAL INFORMATION FOR CLINICAL REHABILITATION COUNSELORS 3 Credit Hours**

(Slashed with CES 77723) Study of the physical impact of disease or injury on individuals; available medical and restorative resources skills in interpreting medical reports and rehabilitation planning.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CES 67725 PSYCHOSOCIAL IMPACT OF DISABILITY 3 Credit Hours**  
(Slashed with CES 77725) Introduction to major concepts in rehabilitation regarding the impact of disability on the individual, the family and the community. Normalization stigma and adjustment to loss emphasized.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CES 67732 OCCUPATIONAL ASPECTS OF DISABILITY 3 Credit Hours**  
(Slashed with CES 77732) An introduction to a wide range of occupational and vocational analysis through job analysis, job seeking, job placement, job restructuring, work adjustment and independent living approaches.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CES 67776 RESEARCH IN CLINICAL REHABILITATION COUNSELING 3 Credit Hours**

(Slashed with CES 77776) Survey of the research literature in disabilities. Guidelines for evaluating and implementing research findings. Course acquaints students with current research. Evaluation of design statistical analysis and conclusions.

**Prerequisite:** Graduate standing.

**Schedule Type:** Seminar

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**CES 67792 INTERNSHIP I: CLINICAL MENTAL HEALTH COUNSELING 3 Credit Hours**

(Repeatable for credit) Assignment to a mental health agency, private practice, etc. for extensive and intensive applications of clinical mental health counseling. The scope of practice for this internship is diagnosis and treatment of mental and emotional disorders.

**Prerequisite:** Clinical Mental Health Counseling major; and graduate standing; and special approval.

**Schedule Type:** Lecture, Practical Experience

**Contact Hours:** 3 lecture, 20 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**CES 67795 SPECIAL TOPICS IN CLINICAL REHABILITATION COUNSELING 1-3 Credit Hours**

(Repeatable for credit)(Slashed with CES 77795) Presentation of special interest to students. Topics vary per course offering.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 1-3 lecture

**Grade Mode:** Standard Letter

**CES 67796 INDIVIDUAL INVESTIGATION IN CLINICAL REHABILITATION COUNSELING 1-3 Credit Hours**

(Repeatable for credit) Independent reading and/or research directed by a graduate faculty member.

**Prerequisite:** Graduate standing.

**Schedule Type:** Individual Investigation

**Contact Hours:** 3-9 other

**Grade Mode:** Standard Letter-IP

**CES 67798 INDIVIDUAL RESEARCH IN CLINICAL REHABILITATION COUNSELING 1-6 Credit Hours**

(Repeatable for credit) Research project on an aspect of rehabilitation under supervision of an instructor. Students must make arrangements with the instructor prior to registration.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Research

**Contact Hours:** 3-18 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**CES 67820 GROUP WORK: THEORY AND TECHNIQUES 3 Credit Hours**

(Slashed with CES 77820) This is an experiential and didactic course designed to provide both an overview of groups and a basic group experience. Involvement in a group is part of this course as is practice of group leadership skills.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CES 67858 SEMINAR: GROUP COUNSELING 2 Credit Hours**

(Slashed with CES 77858) Study and experience of various theoretical and methodological and practical approaches to group counseling. Includes experience as counselor and participant in peer counseling group.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Seminar

**Contact Hours:** 2 other

**Grade Mode:** Standard Letter

**CES 67892 INTERNSHIP II: CLINICAL MENTAL HEALTH COUNSELING 3 Credit Hours**

(Repeatable for credit) Assignment to a mental health agency, private practice, etc. for extensive and intensive applications of clinical mental health counseling. The scope of practice for this internship is diagnosis and treatment of mental and emotional disorders.

**Prerequisite:** Clinical Mental Health Counseling major; and graduate standing; and special approval.

**Schedule Type:** Lecture, Practical Experience

**Contact Hours:** 3 lecture, 20 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**CES 68011 FOUNDATIONS OF SCHOOL COUNSELING 3 Credit Hours**

(Slashed with CES 78011) Foundation course in school counseling. Focuses on the professional identity of school counselors and other pupil service personnel and on the development of comprehensive school counseling programs.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CES 68066 COUNSELING ADOLESCENTS 3 Credit Hours**

(Slashed with CES 78066) A didactic and experiential seminar focusing on adolescents frequently referred to counselors. Counseling procedures, treatment plans and referral procedures for youth will be covered.

**Prerequisite:** CES 67530 and 67531; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CES 68067 COUNSELING CHILDREN 3 Credit Hours**

(Slashed with CES 78067) Seminar focusing on intra and interpersonal dynamics of children referred for treatment to counselors. Designed to supplement individual and group counseling skills with play media.

**Prerequisite:** CES 67530 or 77530 and 67531 or 77531; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CES 68068 SCHOOL COUNSELING PROGRAM MANAGEMENT AND LEADERSHIP 3 Credit Hours**

(Slashed with CES 78068) Focuses on the management, leadership and implementation of comprehensive school counseling program including developmental counseling approaches, management systems and outcome research.

**Prerequisite:** CES 68011; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CES 68069 ORIENTATION AND ETHICS: SCHOOL COUNSELING 3 Credit Hours**

(Slashed with CES 78069) Consideration given to issues that provide an orientation to school counseling. Examples of these issues include professional preparation standards, roles and functions of school counselors, and ethical standards and legal issues.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CES 68095 SPECIAL TOPICS IN SCHOOL COUNSELING 1-3 Credit Hours**

(Repeatable for credit) Presentations of special interest to students. Offered irregularly. Topics will be announced in schedule of classes booklet.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 1-3 lecture

**Grade Mode:** Standard Letter

**CES 68126 INTRODUCTION TO ASSESSMENT IN COUNSELING 3 Credit Hours**

(Slashed with CES 78126) Instruction and experience in utilizing observational, measurement and appraisal methods and instruments relevant to clinical mental health counseling and school counseling settings. Measurement theory and concepts related to the appraisal process are presented.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CES 68128 CLINICAL ASSESSMENT IN COUNSELING 3 Credit Hours**

(Slashed with CES 78128) Experience in selecting, administering and interpreting measures of personality and motivation. Primary attention will be placed on measures of psychopathology.

**Prerequisite:** CES 68126 and 67628; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CES 68130 PSYCHOPATHOLOGY FOR COUNSELORS 3 Credit Hours**

(Slashed with CES 78130) This course covers the etiology and treatment of various disorders covered in the current DSM system. Assessment, treatment and psychopharmacological aspects of treatment are considered.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CES 68167 CASE CONCEPTUALIZATION AND TREATMENT PLANNING 3 Credit Hours**

(Slashed with CES 88167) Development of understanding of more in-depth and complex counseling processes, case conceptualization and treatment planning, and advanced skills for intervention. Didactic and role-playing methods will be used.

**Prerequisite:** CES 67628 and CES 67492; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CES 68168 ADVANCED COUNSELING THEORIES 3 Credit Hours**

(Repeatable twice for credit) (Slashed with CES 88168) Consideration in depth of major counseling theories, with special emphasis on comparative analysis. Original readings used.

**Prerequisite:** CES 67492 with a minimum S grade; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CES 68182 CAREER COUNSELING 3 Credit Hours**

(Slashed with CES 78182) The world of work, theories of career choice, techniques in career counseling. An introductory course in the career area for practitioners in education, helping services, human resources and personnel.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CES 68192 INTERNSHIP I: SCHOOL COUNSELING 3 Credit Hours**

(Repeatable for credit) Assignment to a school for extensive and intensive applications appropriate for school counseling. A focus on the implementation of advocacy, leadership, collaboration, and systemic change is highlighted. This course meets specific CACREP standards.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Lecture, Practical Experience

**Contact Hours:** 3 lecture, 20 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**CES 68284 SUPERVISION OF COUNSELING 3 Credit Hours**

(Repeatable twice for credit) (Slashed with CES 88284) Focuses on supervisory processes in terms of theoretical perspectives and practices of supervision. Reviews relevant literature related to the roles, functions and settings of clinical supervisor. Includes supervisory experiences.

**Prerequisite:** CES 67592 or 77592 with a minimum S grade; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CES 68292 INTERNSHIP II: SCHOOL COUNSELING 3 Credit Hours**  
(Repeatable for credit) Assignment to a school for extensive and intensive applications appropriate for school counseling. A focus on the application of advocacy, leadership, collaboration and systemic change are highlighted in this course. This course meets specific CACREP standards.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Lecture, Practical Experience

**Contact Hours:** 2 lecture, 20 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**CES 68392 SCHOOL COUNSELING PRACTICUM 3 Credit Hours**  
Students begin supervised practice of counseling with clients, primarily in a K-12 school. Direct observation, audio video recording, individual supervision, and seminar discussion are used for the development of counseling skills, strategies, and professional role. Students are required to complete Bureau of Criminal Investigation and Identification (BCII) and Federal Bureau of Investigation (FBI) background checks and submit the results to authorized personnel at their assigned school-agency before the first day of the semester in which the practicum will take place.

**Prerequisite:** CES 67530 and CES 67531 and CES 67820 and CES 68069; and graduate standing.

**Schedule Type:** Practical Experience

**Contact Hours:** 20 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**CES 68529 COUPLES THERAPY:THEORY AND TECHNIQUES 3 Credit Hours**

(Slashed with CES 78529) Study of selected couples therapy theories. Focus on concepts and techniques and their application in the therapeutic setting.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CES 68533 FAMILY THERAPY: THEORY AND TECHNIQUES 3 Credit Hours**

(Slashed with CES 78533) Explores systemic family therapy utilizing various philosophical orientations, theoretical concepts and techniques in a didactic experiential and applied atmosphere.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CES 68538 ADVANCED MULTICULTURAL COUNSELING 3 Credit Hours**

(Slashed with CES 78538) This course is designed to assist helping professionals in enhancing the knowledge and skill components of multicultural counseling. Cultural and multicultural counseling experiences with constructive feedback are provided.

**Prerequisite:** CES 67580 or CES 77580 and CES 67531 or CES 77531; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CES 69192 PRACTICUM II: CLINICAL REHABILITATION COUNSELING 3 Credit Hours**

Supervised, controlled exposure to rehabilitation clients; examine alternative modes of intervention; group and individual feedback sessions using audio and videotape recordings.

**Prerequisite:** CES 67492 and CES 67628 and CES 67725; and graduate standing.

**Schedule Type:** Practical Experience

**Contact Hours:** 16 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**CES 69792 INTERNSHIP IN CLINICAL REHABILITATION COUNSELING 6 Credit Hours**

(Repeatable for credit) Assignment to rehabilitation agency for extensive and intensive applications appropriate for rehabilitation counseling, consulting and coordinating. Supervision of internships shared jointly by rehabilitation agency and university instructor.

**Prerequisite:** CES 69192; and graduate standing.

**Schedule Type:** Practical Experience

**Contact Hours:** 43 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**CES 70093 VARIABLE TITLE WORKSHOP IN COUNSELOR EDUCATION AND SUPERVISION 1-4 Credit Hours**

(Repeatable for credit) (Slashed with CES 50093) Workshops and training laboratories in various aspects of counseling, guidance and personnel services for counselors, supervisors, administrators and paraprofessionals. Prospective enrollees not currently admitted to graduate school may obtain special admission for graduate credit in a workshop. Topics are announced in brochures of College of Continuing Studies. Limit of 6 hours with adviser's permission toward any degree program.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Workshop

**Contact Hours:** 1-4 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**CES 70193 VARIABLE TITLE WORKSHOP IN CLINICAL REHABILITATION COUNSELING 1-4 Credit Hours**

(Repeatable for credit)(Slashed with CES 60193) Variable topic workshop designed to respond to emerging or specialized needs in clinical rehabilitation counseling.

**Prerequisite:** Doctoral standing; and special approval.

**Schedule Type:** Workshop

**Contact Hours:** 1-4 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**CES 77530 COUNSELING THEORIES 3 Credit Hours**

(Slashed with CES 67530) A survey of counseling practice that examines the nature of counseling process and relationships as described from major theoretical perspectives.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CES 77531 COUNSELING SKILLS AND TECHNIQUES 3 Credit Hours**

(Slashed with CES 67531) Didactic and experiential training in basic interviewing and counseling techniques prepares the student for practicum through role playing, videotaped feedback and simulation.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CES 77580 MULTICULTURAL COUNSELING 3 Credit Hours**

(Slashed with CES 67580) Seminar focused on sensitivities needed to work effectively with diverse clients. Consideration given to racism, oppression, poverty, ageism, gender and relational affinity.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CES 77584 WRITING FOR PROFESSIONAL PUBLICATIONS 3 Credit Hours**

Seminar experience designed to prepare professionals to publish research findings, conceptualizations and professional field experiences in refereed journals and books. Elements of grant writing also treated.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CES 77592 PRACTICUM II: CLINICAL MENTAL HEALTH COUNSELING 3 Credit Hours**

(Repeatable for credit) (Slashed with CES 67592) Involves individual counseling and group work with appropriate populations. Caseload geared toward preparation for internship. Controlled registration.

**Prerequisite:** CES 77628; and doctoral standing.

**Schedule Type:** Practical Experience

**Contact Hours:** 16 other

**Grade Mode:** Standard Letter

**CES 77628 DIAGNOSIS IN COUNSELING 3 Credit Hours**

(Slashed with CES 67628) To develop diagnostic skills in interviewing and use of appropriate nosology in counseling diagnosis.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CES 77662 FOUNDATIONS OF ADDICTIONS COUNSELING 3 Credit Hours**

(Slashed with CES 67662) Introduction to fundamental concepts and recommended practices in addictions counseling, including pharmacology, screening and assessment, facilitating individual and group services, and ethical and legal considerations. Meets minimum training requirements for State of Ohio credentialing eligibility as a chemical dependency counselor assistant.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CES 77663 ORIENTATION AND ETHICS: CLINICAL MENTAL HEALTH COUNSELING 3 Credit Hours**

(Slashed with CES 67663) Attention is given to the identity, ethics, professional standards and organizations and employment settings of the clinical mental health counselor. Models of problem definition, administrative structure and service delivery are explored.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CES 77664 THEORIES AND PRACTICES IN ADDICTIONS COUNSELING 3 Credit Hours**

(Slashed with CES 77664) Review of historical and contemporary theories and models of addiction (e.g., disease, behavioral, public health, family systems), as well as recommended practices in addictions counseling. Pharmacology and sociocultural factors emphasized. Implications for prevention, treatment, and policy are considered.

**Prerequisite:** CES 67662 or CES 77662; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CES 77665 TREATMENT PLANNING IN ADDICTIONS COUNSELING 3 Credit Hours**

(Slashed with CES 67665) Assessment and diagnosis of substance use disorders, and formulation of comprehensive and individualized care plans. Consideration of client dimensions and appropriate care levels, and emphasis on collaborative, coordinated, and ethical care.

**Prerequisite:** CES 67664 or CES 77664; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CES 77666 EVIDENCE-BASED PRACTICES IN ADDICTIONS COUNSELING 3 Credit Hours**

(Slashed with CES 67666) Intensive study of a select number of evidence-based practices (EBPs) in addictions counseling for individuals, groups, and families, including cognitive-behavioral and systems and family approaches. Didactic and experiential training methods used to promote practice with fidelity.

**Prerequisite:** CES 77665; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CES 77668 MOTIVATIONAL INTERVIEWING 3 Credit Hours**

(Slashed with CES 67668) Introduction to motivational interviewing (MI), a strengths-based evidence-based practice designed to facilitate the self-directed and beneficial change of others in a variety of health behaviors. Practice of MI-consistent skills with immediate feedback, use of MI coding scheme to evaluate MI-consistency, and emphasis on continuous learning and skill-building.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter



**CES 77692 PRACTICUM IN ADDICTIONS COUNSELING 3-6 Credit Hours**

(Slashed with CES 67692) Field-based experiential training and supervised practice of addictions counseling with individual and group clients. Practicum site must be approved by CES program. Individual supervision must be supplied onsite (at location of practicum) by licensed behavioral health care provider approved by CES program. Six to seven class sessions per academic term that focus on theory- and training-to-practice implementation, professional role development, ensuring ethical practice, and counselor self-care. Students are required to complete Bureau of Criminal Investigation and Identification (BCII) and Federal Bureau of Investigation (FBI) background checks and submit results to authorized personnel at practicum site prior to first day of academic term in which practicum will take place.

**Prerequisite:** CES 67665 or CES 77665 or CES 67666 or CES 77666; and doctoral standing; and special approval.

**Schedule Type:** Lecture, Practical Experience

**Contact Hours:** 1 lecture, 14-35 other

**Grade Mode:** Standard Letter-IP

**CES 77695 SPECIAL TOPICS IN CLINICAL MENTAL HEALTH COUNSELING 1-3 Credit Hours**

(Repeatable for credit) (Slashed with CES 67695) Presentations of special interest to students. Offered irregularly. Topics will be announced in schedule of classes booklet.

**Prerequisite:** Doctoral standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 1-3 lecture

**Grade Mode:** Standard Letter

**CES 77712 ORIENTATION AND ETHICS: CLINICAL REHABILITATION COUNSELING 3 Credit Hours**

(Slashed with CES 67712) Introductory course surveys philosophy, history and legislation in rehabilitation, which is defined as a process, social movement and public mandate. Particular emphasis is given to the role and function of the rehabilitation counselor in the private and public sectors.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CES 77723 MEDICAL INFORMATION FOR CLINICAL REHABILITATION COUNSELORS 3 Credit Hours**

(Slashed with CES 67723) Study of the physical impact of disease or injury on individuals; available medical and restorative resources skills in interpreting medical reports and rehabilitation planning.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CES 77725 PSYCHOSOCIAL IMPACT OF DISABILITY 3 Credit Hours**

(Slashed with CES 67725) Introduction to major concepts in rehabilitation regarding the impact of disability on the individual, the family and the community. Normalization stigma and adjustment to loss emphasized.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CES 77732 OCCUPATIONAL ASPECTS OF DISABILITY 3 Credit Hours**

(Slashed with CES 67732) An introduction to a wide range of occupational and vocational analysis through job analysis, job seeking, job placement, job restructuring, work adjustment and independent living approaches.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CES 77776 RESEARCH IN CLINICAL REHABILITATION COUNSELING 3 Credit Hours**

(Slashed with CES 67776) Survey of the research literature in disabilities. Guidelines for evaluating and implementing research findings. Course acquaints students with current research. Evaluation of design statistical analysis and conclusions.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Seminar

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**CES 77795 SPECIAL TOPICS IN CLINICAL REHABILITATION COUNSELING 1-3 Credit Hours**

(Repeatable for credit)(Slashed with CES 67795) Presentation of special interest to students. Topics vary per course offering.

**Prerequisite:** Doctoral standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 1-3 lecture

**Grade Mode:** Standard Letter

**CES 77796 INDIVIDUAL INVESTIGATION IN CLINICAL REHABILITATION COUNSELING 1-3 Credit Hours**

(Repeatable for credit) Independent reading and/or research directed by a graduate faculty member.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Individual Investigation

**Contact Hours:** 1-3 other

**Grade Mode:** Standard Letter-IP

**CES 77798 INDIVIDUAL RESEARCH IN CLINICAL REHABILITATION COUNSELING 1-6 Credit Hours**

(Repeatable for credit) Research project on an aspect of rehabilitation under supervision of an instructor. Students must make arrangements with the instructor prior to registration.

**Prerequisite:** Doctoral standing; and special approval.

**Schedule Type:** Research

**Contact Hours:** 3-18 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**CES 77820 GROUP WORK: THEORY AND TECHNIQUES 3 Credit Hours**

(Slashed with CES 67820) This is an experiential and didactic course designed to provide both an overview of groups and a basic group experience. Involvement in a group is part of this course as is practice of group leadership skills.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CES 77858 SEMINAR: GROUP COUNSELING 2 Credit Hours**

(Slashed with CES 67858) Study and experience of various theoretical and methodological and practical approaches to group counseling. Includes experience as counselor and participant in peer counseling group.

**Prerequisite:** Doctoral standing; and special approval.

**Schedule Type:** Seminar

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**CES 78011 FOUNDATIONS OF SCHOOL COUNSELING 3 Credit Hours**

(Slashed with CES 68011) Foundation course in school counseling.

Focuses on the professional identity of school counselors and other pupil service personnel and on the development of comprehensive school counseling program.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CES 78066 COUNSELING ADOLESCENTS 3 Credit Hours**

(Slashed with CES 68066) A didactic and experiential seminar focusing on adolescents frequently referred to counselors. Counseling procedures, treatment plans and referral procedures for youth will be covered.

**Prerequisite:** CES 67530 or CES 77530 and CES 67531 or CES 77531; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CES 78067 COUNSELING CHILDREN 3 Credit Hours**

(Slashed with CES 68067) Seminar focusing on intra and interpersonal dynamics of children referred for treatment to counselors. Designed to supplement individual and group counseling skills with play media.

**Prerequisite:** CES 67530 or CES 77530 and CES 67531 or CES 77531; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CES 78068 SCHOOL COUNSELING PROGRAM MANAGEMENT AND LEADERSHIP 3 Credit Hours**

(Slashed with CES 68068) Focuses on the management, leadership and implementation of comprehensive school counseling program including developmental counseling approaches, management systems and outcome research.

**Prerequisite:** CES 68011 or CES 78011; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CES 78069 ORIENTATION AND ETHICS: SCHOOL COUNSELING 3 Credit Hours**

(Slashed with CES 68069) Consideration given to issues that provide an orientation to school counseling. Examples of these issues include professional preparation standards roles and functions of school counselors and ethical standards and legal issues.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CES 78126 INTRODUCTION TO ASSESSMENT IN COUNSELING 3 Credit Hours**

(Slashed with CES 68126) Instruction and experience in utilizing observational, measurement and appraisal methods and instruments relevant to clinical mental health counseling and school counseling settings. Measurement theory and concepts related to the appraisal process are presented.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CES 78128 CLINICAL ASSESSMENT IN COUNSELING 3 Credit Hours**

(Slashed with CES 68128) A laboratory experience in selecting, administering and interpreting measures of personality and motivation. Primary attention will be placed on measures of psychopathology.

**Prerequisite:** CES 68126 or CES 78126; and CES 67628 or CES 77628; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CES 78130 PSYCHOPATHOLOGY FOR COUNSELORS 3 Credit Hours**

(Slashed with CES 68130) This course covers the etiology and treatment of various disorders covered in the current DSM system. Assessment, treatment, and psychopharmacological aspects of treatment are considered.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CES 78182 CAREER COUNSELING 3 Credit Hours**

(Slashed with CES 68182) The world of work, theories of career choice, techniques in career counseling. An introductory course in the career area for practitioners in education, helping services, human resources and personnel.

**Prerequisite:** Doctoral standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CES 78529 COUPLES THERAPY:THEORY AND TECHNIQUES 3 Credit Hours**

(Slashed with CES 68529) Study of selected couples therapy theories. Focus on concepts and techniques and their application in the therapeutic setting.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CES 78533 FAMILY THERAPY: THEORY AND TECHNIQUES 3 Credit Hours**

(Slashed with CES 68533) Explores systemic family therapy utilizing various philosophical orientations, theoretical concepts and techniques in a didactic experiential and applied atmosphere.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CES 78538 ADVANCED MULTICULTURAL COUNSELING 3 Credit Hours**

(Slashed with CES 68538) This course is designed to assist helping professionals in enhancing the knowledge and skill components of multicultural counseling. Cultural and multicultural counseling experiences with constructive feedback are provided.

**Prerequisite:** CES 67580 or CES 77580; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CES 78592 PRACTICUM IN COUPLES AND FAMILY THERAPY 3 Credit Hours**

(Repeatable for credit) Supervised experience in the practice of couples and family counseling. Students meet for individual supervision and seminar groups to assess their effectiveness in helping relationships.

**Prerequisite:** Doctoral standing in Counselor Education and Supervision major; and special approval.

**Schedule Type:** Practical Experience

**Contact Hours:** 14 other

**Grade Mode:** Standard Letter

**CES 79192 PRACTICUM II: CLINICAL REHABILITATION COUNSELING 3 Credit Hours**

Supervised, controlled exposure to rehabilitation clients; examine alternative modes of intervention; group and individual feedback sessions using audio and videotape recordings.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Practical Experience

**Contact Hours:** 16 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**CES 79792 INTERNSHIP IN CLINICAL REHABILITATION COUNSELING 6 Credit Hours**

(Repeatable for credit) Assignment to rehabilitation agency for extensive and intensive applications appropriate for rehabilitation counseling, consulting and coordinating. Supervision of internships shared jointly by rehabilitation agency and university instructor.

**Prerequisite:** CES 69192 or CES 79192; and doctoral standing.

**Schedule Type:** Practical Experience

**Contact Hours:** 43 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**CES 80090 DOCTORAL RESIDENCY SEMINAR IN COUNSELOR EDUCATION AND SUPERVISION 3 Credit Hours**

Focus on professional identity, current issues and trends and involvement in professional activities.

**Prerequisite:** Doctoral standing in Counselor Education and Supervision major.

**Schedule Type:** Seminar

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**CES 80199 DISSERTATION I 15 Credit Hours**

(Repeatable for credit) Doctoral candidates work on dissertation research in consultation with their advisors. Doctoral candidates will register for two consecutive semesters of CES 80199 Dissertation I for 15 hours each semester, immediately following successful completion of doctoral comprehensive exams. Thereafter, students will register for CES 80299 Dissertation II each semester, including summer, until all degree requirements have been met.

**Prerequisite:** Doctoral standing; and special approval.

**Schedule Type:** Dissertation

**Contact Hours:** 15 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**CES 80200 FUNDAMENTALS OF WRITING AND RESEARCH IN COUNSELOR EDUCATION AND SUPERVISION 3 Credit Hours**

Didactic and experiential training in the fundamentals of academic or scholarly writing and research in the counseling profession. Emphasis on reading practices; elements, principles, and processes of academic or scholarly writing; and generativity and systematic methodology in applied research in counseling and counselor education and supervision.

**Prerequisite:** Doctoral standing in the Counselor Education and Supervision major.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CES 80299 DISSERTATION II 15 Credit Hours**

(Repeatable for credit) Continuing registration required of doctoral students who have completed the initial 30 hours of Dissertation I and continuing until all degree requirements are met. Satisfactory/unsatisfactory (S/U) graded. In-progress (IP) mark permissible.

**Prerequisite:** CES 80199; and doctoral standing.

**Schedule Type:** Dissertation

**Contact Hours:** 15 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**CES 80300 LEADERSHIP AND ADVOCACY IN COUNSELOR EDUCATION AND SUPERVISION 3 Credit Hours**

This course is designed to assist doctoral level CES students to become knowledgeable and skillful professionals in leadership and advocacy efforts. Students will learn aspects of leadership and advocacy, such as applications in various settings and with diverse populations, to enable them to develop ethical and culturally relevant practices. Students must have completed one semester in the Counselor Education and Supervision doctoral program to enroll in this course.

**Prerequisite:** Doctoral standing in the Counselor Education and Supervision major.

**Schedule Type:** Seminar

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**CES 87392 ADVANCED INDIVIDUAL COUNSELING PRACTICUM 3 Credit Hours**

(Repeatable for credit) Supervised experience in counseling. Students meet for individual supervision and in seminar groups to assess their effectiveness in helping relationships.

**Prerequisite:** Doctoral standing in the Counselor Education and Supervision major.

**Schedule Type:** Practical Experience

**Contact Hours:** 14 other

**Grade Mode:** Standard Letter

**CES 87595 SPECIAL TOPICS IN COUNSELOR EDUCATION AND SUPERVISION 1-3 Credit Hours**

(Repeatable for credit) Presentation of topics of special interest to students in counselor education and supervision. Offered irregularly. Topics will be announced in schedule of classes booklet.

**Prerequisite:** Doctoral standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 1-3 lecture

**Grade Mode:** Standard Letter

**CES 87596 INDIV INVEST IN CES 1-3 Credit Hours**

(Repeatable for credit) (Slashed with CES 67596) Student investigates one or more topics in counseling under supervision. Review selected literature beyond normal course coverage. Arrangements with instructor must be made prior to registration.

**Prerequisite:** Doctoral standing; and special approval.

**Schedule Type:** Individual Investigation

**Contact Hours:** 1-3 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**CES 88167 CASE CONCEPTUALIZATION AND TREATMENT PLANNING 3 Credit Hours**

(Slashed with CES 68167) Development of understanding of more in-depth and complex counseling processes, case conceptualization and treatment planning, and advanced skills for intervention. Didactic and role-playing methods will be used.

**Prerequisite:** CES 67628 or CES 77628; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CES 88168 ADVANCED COUNSELING THEORIES 3 Credit Hours**

(Repeatable twice for credit) (Slashed with CES 68168) Consideration in depth of major counseling theories, with special emphasis on comparative analysis. Original readings used.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CES 88281 RESEARCH SEMINAR IN COUNSELOR EDUCATION AND SUPERVISION 3 Credit Hours**

Topics or problems of current concern in counselor education and supervision services. Review of significant studies, design strategies, instrumentation, data analysis and research issues. Topic to be announced in schedule of classes booklet.

**Prerequisite:** CES 80200, EVAL 75510, EVAL 85515 and EVAL 85516; and doctoral standing.

**Schedule Type:** Seminar

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**CES 88284 SUPERVISION OF COUNSELING 3 Credit Hours**

(Repeatable twice for credit) (Slashed with CES 68284) This seminar focuses on supervisory processes in terms of theoretical perspectives and practices of supervision. Reviews relevant literature related to the roles, functions and settings of clinical supervisor. Includes supervisory experiences.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CES 88292 INTERNSHIP IN COUNSELOR EDUCATION AND SUPERVISION 3-6 Credit Hours**

(Repeatable for credit) Opportunity to integrate learning and skills in Counseling, Teaching, Research and Scholarship, Leadership, and Supervision. Each experience requires supervision. Completion of program course requirements is necessary prior to registration.

**Prerequisite:** Doctoral standing; and special approval.

**Schedule Type:** Practical Experience, Seminar

**Contact Hours:** 23-46 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**CES 88294 COLLEGE TEACHING IN COUNSELOR EDUCATION AND SUPERVISION 3 Credit Hours**

(Repeatable for credit) Application of planning, instructional and evaluation skills. Doctoral students lead skill training groups, lecture a large class and guide group discussion with faculty supervision. Arrangements for this experience to be made before semester begins.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CES 88298 INDIVIDUAL RESEARCH IN COUNSELOR EDUCATION AND SUPERVISION 1-3 Credit Hours**

(Repeatable for credit) Individual research on selected aspect of counseling and human development services under supervision of instructor. Arrangements with instructor must be made prior to registration. Satisfactory/unsatisfactory (S/U) graded.

**Prerequisite:** Doctoral standing; and special approval.

**Schedule Type:** Research

**Contact Hours:** 1-3 other

**Grade Mode:** Satisfactory/Unsatisfactory

**CES 88392 TEACHING PRACTICUM IN COUNSELOR EDUCATION AND SUPERVISION 3 Credit Hours**

(Repeatable for credit) Supervised experience in the practice of college teaching in Counselor Education and Supervision. Students meet for group supervision to assess their effectiveness in college teaching. Live video and audio supervisory processes will be utilized to assist with skill development. Limited to 6 students.

**Prerequisite:** CES 88294; and doctoral standing.

**Schedule Type:** Practical Experience

**Contact Hours:** 9 other

**Grade Mode:** Standard Letter

**CES 88492 SUPERVISION PRACTICUM IN COUNSELOR EDUCATION AND SUPERVISION 3 Credit Hours**

(Repeatable for credit) This practicum focuses on the application of theoretical perspectives and practices of counseling supervision. It includes multiple supervisory experiences, including facilitation of individual and group supervision of counseling students in master's practicums or internships.

**Prerequisite:** CES 88284; and doctoral standing in the Counselor Education and Supervision major.

**Schedule Type:** Practical Experience

**Contact Hours:** 9 other

**Grade Mode:** Standard Letter



## Criminology and Justice Studies (CRIM)

### CRIM 12000 INTRODUCTION TO JUSTICE STUDIES 3 Credit Hours

Surveys the U.S. criminal justice system and its component institutions and processes, including overviews of policing, corrections, courts, and their inter-relations in the criminal justice system. An overview is also provided of the nature and measurement of crime, patterns of offending and victimization, and criminal justice responses to offending and victimization. Historical and emerging issues are introduced including a variety of insights related to effective, professional and ethical practices in criminal justice.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** TAG Social and Behavioral Sciences

### CRIM 22100 BASIC INTERVIEWING 3 Credit Hours

Foundation of basic interviewing principles, including communication models, question format, distortions, topic control, inhibitors, facilitators, listening, types of interviews and practical exercises.

**Prerequisite:** CRIM 12000.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

### CRIM 22300 POLICE ROLE 3 Credit Hours

Systematic analysis of the police role. An examination of the related research with an emphasis on divergent perspective and development of conceptual models.

**Prerequisite:** CRIM 12000.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** TAG Social and Behavioral Sciences

### CRIM 22301 THE INVESTIGATIVE PROCESS 3 Credit Hours

An examination of established investigative processes, techniques employed in conducting a systematic investigation and legal implications.

**Prerequisite:** CRIM 12000.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

### CRIM 26701 CORRECTIONS 3 Credit Hours

Course topics include history of corrections, punishment, community corrections, correctional institutions, correctional administration, issues in corrections, and future trends of corrections.

**Prerequisite:** CRIM 12000.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** TAG Social and Behavioral Sciences

### CRIM 26704 ISSUES IN LAW AND SOCIETY (KSS) 3 Credit Hours

General treatment of the legal system with special emphasis on its origin, structure and functional consequences on issues and problems in modern society.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Kent Core Social Sciences, Transfer Module Social Sciences

### CRIM 27095 SPECIAL TOPICS IN CRIMINOLOGY AND JUSTICE STUDIES 2,3 Credit Hours

(Repeatable for a maximum of 6 credit hours) Intensive analysis of issues significant and current in the field which are not covered in regular courses.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 2-3 lecture

**Grade Mode:** Standard Letter

### CRIM 27311 VICTIMOLOGY 3 Credit Hours

Patterns of victim-offender relationship and process of victimization. Role of victims in criminal process. Problems of adjustment to victimization and issues in victim compensation.

**Prerequisite:** CRIM 12000.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

### CRIM 32200 POLICE AND COMMUNITY 3 Credit Hours

An examination of the rights of individuals, citizen involvement, the police as members of the community, and the development implementation and evaluation of related programs.

**Prerequisite:** CRIM 12000 and CRIM 22300; and sophomore standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

### CRIM 32500 CRISIS INTERVENTION 3 Credit Hours

Crisis intervention situations in criminal justice are considered. The service role of criminal justice personnel, community resources and skill development are also considered.

**Prerequisite:** CRIM 12000; and CRIM 22300 or CRIM 27311; and sophomore standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

### CRIM 33200 CRIMINAL LAW 3 Credit Hours

Developmental backgrounds and principles of criminal law; structure, functions of criminal law; rules of criminal liability and procedural requisites in criminal proof. Case analysis included.

**Prerequisite:** CRIM 12000.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

### CRIM 33300 DEVELOPMENT OF JUSTICE IN AMERICA 3 Credit Hours

Course focuses on the evolution of the criminal justice process from its establishment in the United States to the present.

**Prerequisite:** CRIM 12000; and sophomore standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter



**CRIM 33400 CRIME AND JUSTICE IN POPULAR CULTURE 3 Credit Hours**

Crime and criminal justice as they are socially constructed and portrayed in popular culture including television, news and entertainment, popular film and other media of popular culture. Critical analysis of relations between popular culture, media institutions, crime and justice. Role of popular culture media in shaping public opinions about crime and justice, and in turn the relevance of public opinion for understanding criminal justice politics and policy.

**Prerequisite:** CRIM 12000; and sophomore standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CRIM 34200 CRIMINAL PROCEDURES AND EVIDENCE 3 Credit Hours**

This course focuses on the use of evidence and the legal procedures followed in the processing of criminal cases. Case analysis and writing assignments required.

**Prerequisite:** CRIM 12000 or PLST 18000.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CRIM 34311 YOUTH AND THE JUSTICE SYSTEM 3 Credit Hours**

Analysis of situations involving the legal rights of children and youths, which demand intervention by justice institutions or service agencies.

**Prerequisite:** CRIM 12000.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CRIM 34500 UNDERSTANDING CRIMINAL LAW THROUGH FICTION 3 Credit Hours**

Exploration of legal concepts and their application as reflected in popular and literary fiction. Legal analysis of important issues involving criminal and civil law, criminal and civil procedures, evidence, courts and related legal topics. Application of legal issues and procedures to real life situations.

**Prerequisite:** CRIM 12000 and CRIM 26704; and junior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CRIM 36702 CRIMINOLOGY 3 Credit Hours**

Examines crime from the legal and social viewpoints; including extent and patterns of criminal behavior. Special emphasis on theoretical explanations of criminal behavior and crime rates.

**Prerequisite:** CRIM 12000 or SOC 12050; and junior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** CTAG Criminal Justice, TAG Social and Behavioral Sciences

**CRIM 36703 JUVENILE DELINQUENCY 3 Credit Hours**

Social and personal factors in juvenile delinquency; operation of juvenile justice system; prevention and control of delinquency.

**Prerequisite:** CRIM 12000 and CRIM 36702.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CRIM 36800 LGBTQ POPULATIONS IN THE JUSTICE SYSTEM 3 Credit Hours**

This course explores research on LGBTQ (lesbian, gay, bisexual, transgender, and queer) populations in the juvenile and criminal justice systems. Students will examine the role that sexual orientation, gender identity, and gender expression play in the juvenile and criminal justice system, with particular attention given to the experiences of LGBTQ people within these institutions. Drawing on sociological theories of sex and gender and queer criminology, the course will review historical trends in the treatment of LGBTQ people in the justice systems, circumstances facing LGBTQ populations (sexual assault, harassment, hate crimes, institutional discrimination), and policy developments and innovations.

**Prerequisite:** SOC 12050 or CRIM 12000; and sophomore standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CRIM 37091 SEMINAR IN CRITICAL ISSUES IN CRIMINOLOGY AND JUSTICE STUDIES 1-3 Credit Hours**

(Repeatable for credit) Intense analysis of issues significant and current in the justice field which are not covered in regular courses.

**Prerequisite:** CRIM 12000; and sophomore standing.

**Schedule Type:** Seminar

**Contact Hours:** 1-3 other

**Grade Mode:** Standard Letter-IP

**CRIM 37095 SPECIAL TOPICS IN CRIMINOLOGY AND JUSTICE STUDIES 3 Credit Hours**

(Repeatable for a maximum of 6 credit hours) Intensive analysis of issues significant and current in the field which are not covered in regular courses. Repeatable for a total of 6 hours.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CRIM 37311 MINORITIES IN CRIME AND JUSTICE (DIVD) 3 Credit Hours**

Focus on the role of social and ethnic minorities as victims, offenders and participants in the justice process.

**Prerequisite:** Junior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Diversity Domestic

**CRIM 37411 WOMEN IN CRIME AND JUSTICE (DIVD) 3 Credit Hours**

Women as a significant group in crime and their role in the development and operation of the criminal justice system.

**Prerequisite:** Junior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Diversity Domestic

**CRIM 37511 IMMIGRATION: LAW, CRIME AND JUSTICE (DIVD) 3 Credit Hours**

Covers issues of immigration related to law, crime, and justice. Students will be introduced to issues of international diversity through the consideration of issues of law, criminal justice, and social justice related to immigration. Topics to be covered include legal and illegal immigration, immigration law enforcement, immigrants as criminal offenders and as crime victims, police-community relations, immigrants in correctional or detention facilities, and immigration as a national security concern and controversy.

**Prerequisite:** Junior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Diversity Domestic

**CRIM 44400 JUSTICE ADMINISTRATION 3 Credit Hours**

Identification of administrative and management functions, leadership management styles and supervision of personnel in justice organizations.

**Prerequisite:** CRIM 12000; and CRIM 22300 (or CRIM 26701); and CRIM 26704.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CRIM 45093 VARIABLE TITLE WORKSHOP IN CRIMINOLOGY AND JUSTICE STUDIES 1-6 Credit Hours**

(Repeatable for credit) (Slashed with CRIM 55093)

**Prerequisite:** Special approval.

**Schedule Type:** Workshop

**Contact Hours:** 1-6 other

**Grade Mode:** Satisfactory/Unsatisfactory

**CRIM 45096 INDIVIDUAL INVESTIGATION 1-3 Credit Hours**

(Repeatable for a maximum of 6 credit hours when topic varies) Involves an individual research project of considerable depth in a subject area not covered by regular course offerings. Prior consent of supervising faculty member is required.

**Prerequisite:** CRIM 12000 and 26704; and SOC 32210; and junior standing; and special approval.

**Schedule Type:** Individual Investigation

**Contact Hours:** 3-9 other

**Grade Mode:** Standard Letter-IP

**CRIM 46200 ADVANCED CRIMINAL AND LEGAL ISSUES 3 Credit Hours**

Focuses on reading, analyzing, and discussing current criminal, evidentiary and procedural issues as set forth in recent and historical U.S. Supreme Court cases. Case analysis, discussion and writing assignments are required.

**Prerequisite:** CRIM 12000 or PLST 18000; and junior standing.

**Schedule Type:** Seminar

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**CRIM 46701 CRIME, JUSTICE AND SUBSTANCE ABUSE 3 Credit Hours**

(Slashed with CRIM 56701) Examination of the relationship between drug and alcohol abuse and criminal behavior. Efforts to regulate, control, prevent and treat chemical abuse offenders are considered.

**Prerequisite:** CRIM 12000 and CRIM 26704.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CRIM 46705 COMMUNITY CORRECTIONS 3 Credit Hours**

(Slashed with CRIM 56705) This course is devoted to an examination of formal and informal approaches to correctional supervision and treatment through probation, parole and community residential treatment.

**Prerequisite:** CRIM 12000 and CRIM 26701.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CRIM 46707 CORRECTIONAL INSTITUTIONS 3 Credit Hours**

A thorough examination of the correctional institution, including the structure and organization, personnel, inmate social world and examination of the issues in contemporary correctional institutions.

**Prerequisite:** CRIM 12000 and CRIM 26701.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CRIM 46708 TREATMENT METHODS 3 Credit Hours**

(Slashed with CRIM 56708) Various methods of treatment are applied to corrections field. Focus is on specific techniques in community and institutional correctional settings. Direct observation utilized when possible.

**Prerequisite:** CRIM 12000 and 26701; and junior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CRIM 46792 INTERNSHIP (ELR) 3-9 Credit Hours**

(Repeatable for a maximum of 12 credit hours) Work experience under direction of supervising faculty member in a private, federal, state or local justice agency or law agency. Students must have a 2.000 major GPA in Criminology and Justice Studies (CRJU) to enroll in this course.

**Prerequisite:** 9 credit hours of Criminology and Justice studies coursework, including CRIM 12000; and a minimum 2.000 overall GPA; and junior standing; and special approval.

**Schedule Type:** Practical Experience

**Contact Hours:** 3-9 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**Attributes:** Experiential Learning Requirement

**CRIM 46798 RESEARCH IN CRIMINOLOGY AND JUSTICE STUDIES (ELR) 3-12 Credit Hours**

(Repeatable for a maximum of 12 credit hours) Individual research under direct supervision of a faculty member to provide direct hands-on research experience working on faculty research projects. Prior consent of supervising faculty member is required. Only 6 hours of nontraditional coursework can count towards the major.

**Prerequisite:** CRIM 12000 and CRIM 26704; and SOC 32210; and special approval.

**Schedule Type:** Research

**Contact Hours:** 3-12 other

**Grade Mode:** Standard Letter-IP

**Attributes:** Experiential Learning Requirement

**CRIM 46800 INTELLIGENCE AND NATIONAL SECURITY 3 Credit Hours**

(Slashed with CRIM 56800) Addresses topics related to global security, including economic and industrial espionage, trade secret thefts, law and technology and cyber-crimes. Implications of industrial espionage and intellectual property theft for the global economy, national and international security, and the control and regulation of white collar crime. Foundational exploration of Intelligence and Counterintelligence (IC) as concepts, processes and careers.

**Prerequisite:** CRIM 12000; and junior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CRIM 46801 HOMELAND SECURITY 3 Credit Hours**

(Slashed with CRIM 56801) Explores the nexus between terrorism and homeland security as it relates to homeland security strategy, assessment, evaluation, preparation, responses, and recovery actions and mechanisms relating to terrorism and homeland security. There is a focus on the importance of coordination of various assessments, plans, strategies and implementation of plans of action involving local, county, state, federal and international responses pertaining to terrorism and homeland security.

**Prerequisite:** CRIM 12000; and junior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CRIM 46802 TERRORISM AND COUNTERTERRORISM 3 Credit Hours**

(Slashed with CRIM 56802) Examines the origins and evolution of modern terrorism, challenges posed by terrorist groups to states and to the international system, and strategies employed to confront and combat terrorism. Assesses a wide variety of terrorist organizations, and explores the psychological, socioeconomic, political, and religious causes of terrorist violence past and present. Also analyzes the strengths and weaknesses of various counterterrorism efforts.

**Prerequisite:** CRIM 12000; and junior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CRIM 46803 INFORMATION AND CYBER SECURITY 3 Credit Hours**

(Slashed with CRIM 56803) Vulnerabilities of computer networks and techniques for protecting networks and data are discussed. Basic elements of symmetric and asymmetric cryptography, secure e-commerce, involving secure transmission, authentication, digital signatures, digital certificates and Public Key Infrastructure (PKI) are presented. Provides students with an introduction to the field of information security risk assessment. Incorporates cases in risk analysis derived from actual state and law enforcement agencies or private firms.

**Prerequisite:** CRIM 12000; and junior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CRIM 46904 ISSUES IN POLICE WORK 3 Credit Hours**

(Slashed with CRIM 56904) Analysis of police practices and functions at the municipal, state and federal level. Examination of emerging trends and issues in policing. Review of changes in police department policies and research on problem-solving in policing.

**Prerequisite:** CRIM 12000 and CRIM 22300; and junior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CRIM 47002 HUMAN SERVICE AGENCIES AND THE LAW 3 Credit Hours**

(Slashed with CRIM 57002) An overview of the law as it pertains to human service agencies, as well as on the relationships between such agencies and the criminal and juvenile justice systems. Focused attention is given to agencies that closely connect with vulnerable populations (such as children and the poor) and those that work closely with policing and corrections (such as mental health agencies and halfway houses).

**Prerequisite:** CRIM 12000; and junior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CRIM 47003 RESTORATIVE JUSTICE AND VICTIM ASSISTANCE 3 Credit Hours**

(Slashed with CRIM 57003) An inquiry into the theories and research in restorative justice, as well as an assessment of victim assistance protocols and programs. Examines restorative justice and victim assistance initiatives that provide an alternative framework for dealing with crime that places victim needs in a primary position, while addressing legal concerns and interagency differences.

**Prerequisite:** CRIM 12000 and CRIM 27311; and junior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CRIM 47004 LEGAL PERSPECTIVES AND RIGHTS IN VICTIMIZATION 3 Credit Hours**

(Slashed with CRIM 57004) An analysis of the legal rights of victims of crime at state and federal levels as well as a review of how these laws relate to the treatment of victims within the criminal and juvenile justice systems, with particular focus on the courts and correctional institutions. Relevant legislative and Constitutional changes and challenges are also addressed.

**Prerequisite:** CRIM 12000 and CRIM 27311; and junior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CRIM 47095 SPECIAL TOPICS IN CRIMINOLOGY AND JUSTICE STUDIES 3 Credit Hours**

(Repeatable for credit) Intensive analysis of issues significant and current in the field which are not covered in regular courses.

**Prerequisite:** CRIM 12000 and 26704.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CRIM 47211 COURT FUNCTIONS 3 Credit Hours**

Analysis of the structure, functions and critical role of incumbents in the criminal court.

**Prerequisite:** CRIM 12000 and 26704.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CRIM 47311 COMPARATIVE JUSTICE SYSTEMS 3 Credit Hours**

A systematic comparison of the developmental backgrounds, structure and functioning of the major systems of justice in the modern world.

**Prerequisite:** CRIM 12000 and CRIM 26704.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CRIM 55093 VARIABLE TITLE WORKSHOP IN CRIMINOLOGY AND JUSTICE STUDIES 1-3 Credit Hours**

(Repeatable for credit) (Slashed with CRIM 45093) Classroom presentations and field study focused on professional and disciplinary concerns. Specific content varies with workshop topic.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Workshop

**Contact Hours:** 1-3 other

**Grade Mode:** Satisfactory/Unsatisfactory

**CRIM 56701 CRIME, JUSTICE AND SUBSTANCE ABUSE 3 Credit Hours**

(Slashed with CRIM 46701) Examination of the relationship between drug and alcohol abuse and criminal behavior. Efforts to regulate, control, prevent and treat chemical abuse offenders are considered.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CRIM 56705 COMMUNITY CORRECTIONS 3 Credit Hours**

(Slashed with CRIM 46705) Study of community-based correctional supervision and treatment, examining probation, parole, and related residential programs. Topics covered include the history and organization of, and best practices in, community corrections.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CRIM 56708 TREATMENT METHODS 3 Credit Hours**

(Slashed with CRIM 46708) Addresses institutional- and community-based treatment of offenders. Coverage includes the theoretical foundations of treatment and common intervention strategies, including evidence-based practices.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CRIM 56709 EMERGING TRENDS AND ISSUES IN CORRECTIONS 3 Credit Hours**

Explores recent developments pertinent to the field of corrections, including sentencing trends, innovative practices, and legal developments. Analysis of emerging strategies for offender treatment, re-entry, and institutional and community safety.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CRIM 56800 INTELLIGENCE AND NATIONAL SECURITY 3 Credit Hours**

(Slashed with CRIM 46800) Addresses topics related to global security, including economic and industrial espionage, trade secret thefts, law and technology and cyber-crimes. Implications of industrial espionage and intellectual property theft for the global economy, national and international security, and the control and regulation of white collar crime. Foundational exploration of Intelligence and Counterintelligence (IC) as concepts, processes and careers.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CRIM 56801 HOMELAND SECURITY 3 Credit Hours**

(Slashed with CRIM 46801) Explores the nexus between terrorism and homeland security as it relates to homeland security strategy, assessment, evaluation, preparation, responses, and recovery actions and mechanisms relating to terrorism and homeland security. There is a focus on the importance of coordination of various assessments, plans, strategies and implementation of plans of action involving local, county, state, federal and international responses pertaining to terrorism and homeland security.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CRIM 56802 TERRORISM AND COUNTERTERRORISM 3 Credit Hours**

(Slashed with CRIM 46802) Examines the origins and evolution of modern terrorism, challenges posed by terrorist groups to states and to the international system, and strategies employed to confront and combat terrorism. Assesses a wide variety of terrorist organizations, and explores the psychological, socioeconomic, political, and religious causes of terrorist violence past and present. Also analyzes the strengths and weaknesses of various counterterrorism efforts.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CRIM 56803 INFORMATION AND CYBER SECURITY 3 Credit Hours**

(Slashed with CRIM 46803) Vulnerabilities of computer networks and techniques for protecting networks and data are discussed. Basic elements of symmetric and asymmetric cryptography, secure e-commerce, involving secure transmission, authentication, digital signatures, digital certificates and Public Key Infrastructure (PKI) are presented. Provides students with an introduction to the field of information security risk assessment. Incorporates cases in risk analysis derived from actual state and law enforcement agencies or private firms.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CRIM 56904 ISSUES IN POLICE WORK 3 Credit Hours**

(Slashed with CRIM 46904) Analysis of police practices and functions at the municipal, state and federal level. Examination of emerging trends and issues in policing. Review of changes in police department policies and research on problem-solving in policing.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CRIM 57002 HUMAN SERVICE AGENCIES AND THE LAW 3 Credit Hours**

(Slashed with CRIM 47002) An overview of the law as it pertains to human service agencies, as well as on the relationships between such agencies and the criminal and juvenile justice systems. Focused attention is given to agencies that closely connect with vulnerable populations (such as children and the poor) and those that work closely with policing and corrections (such as mental health agencies and halfway houses).

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter



**CRIM 57003 RESTORATIVE JUSTICE AND VICTIM ASSISTANCE 3 Credit Hours**

(Slashed with CRIM 47003) An inquiry into the theories and research in restorative justice, as well as an assessment of victim assistance protocols and programs. Examines restorative justice and victim assistance initiatives that provide an alternative framework for dealing with crime that places victim needs in a primary position, while addressing legal concerns and interagency differences.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CRIM 57004 LEGAL PERSPECTIVES AND RIGHTS IN VICTIMIZATION 3 Credit Hours**

(Slashed with CRIM 47004) An analysis of the legal rights of victims of crime at state and federal levels as well as a review of how these laws relate to the treatment of victims within the criminal and juvenile justice systems, with particular focus on the courts and correctional institutions. Relevant legislative and Constitutional changes and challenges are also addressed.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CRIM 57095 SPECIAL TOPICS IN CRIMINOLOGY AND JUSTICE STUDIES 1-3 Credit Hours**

(Repeatable for credit) Intensive analysis of issues significant and current in the field which are not covered in regular courses.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 1-3 lecture

**Grade Mode:** Standard Letter

**CRIM 66199 THESIS I 2-6 Credit Hours**

(Repeatable for credit) Thesis students must register for a total of 6 hours, 2 to 6 hours in a single semester distributed over several semesters if desired.

**Prerequisite:** Graduate standing.

**Schedule Type:** Masters Thesis

**Contact Hours:** 2-6 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**CRIM 66299 THESIS II 2 Credit Hours**

Thesis students must continue to register for each semester until all degree requirements are met.

**Prerequisite:** CRIM 66199; and graduate standing.

**Schedule Type:** Masters Thesis

**Contact Hours:** 2 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**CRIM 66761 LAW, JUSTICE AND SOCIETY 3 Credit Hours**

Review of the origins, structure and functioning of law in relation to social context and process. Critical assessment of the use of law and legal institutions to address societal problems. Examination of the role that social inequality plays in crime and justice, nationally and internationally.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CRIM 66763 THEORIES OF CRIME AND DELINQUENCY 3 Credit Hours**

Study of the nature and causes of criminal and delinquent behavior, with an emphasis on major contemporary criminological theories. Includes critical analysis of relevant research and policy implications.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CRIM 66766 INSTITUTIONAL CORRECTIONS 3 Credit Hours**

Explores the historical development and theoretical foundations of the correctional institution, including jails and prisons, the structure of institutions and operational challenges. Incorporates overview of contemporary issues and the correctional institution as a social system.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CRIM 66767 JUSTICE ADMINISTRATION 3 Credit Hours**

Introduces students to theories of organization and administration and their application to the administration of justice institutions. The course is divided into two sections: (1) theories of administration and organization and (2) application of theories to management of police functions. Includes use of theories to diagnose and reform justice institutions.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CRIM 66768 RESEARCH METHODS IN CRIMINOLOGY AND CRIMINAL JUSTICE 3 Credit Hours**

Examines the methodology of research designs and techniques used in criminology and criminal justice. Provides students with an overview of the logic of research in order to critically evaluate research in the field. Focuses on the specific skills needed to conduct basic and evaluation research.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CRIM 66770 JUSTICE INSTITUTIONS 3 Credit Hours**

Introduces students to the analysis of U.S. criminal justice institutions. Examines methods of institutional analysis, theories of administration, and the application of these theories to the understanding of police, courts and corrections.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CRIM 66772 VICTIMOLOGY 3 Credit Hours**

Exploration of victimology, the scientific study of the physical, emotional, and financial harm people suffer because of criminal activities.

Examination of the impact of crime on victims, measuring crime through victimization, patterns of victim-offender relationships, and the role of the victim within the criminal and juvenile justice systems.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter



**CRIM 66773 CONTEMPORARY POLICING 3 Credit Hours**

The fundamental question of this course is how to create the most effective police organization. This course examines the various theories and research on police service. Examines the nature of coercion in human interaction and the legitimate use of force by police. Study of the various philosophies and research on the Standard Model of policing, Community-Oriented Policing, and Problem-Oriented Policing. Reviews theories of police administration and the research corroborating or refuting the validity of those theories.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CRIM 66795 SPECIAL TOPICS 1-3 Credit Hours**

(Repeatable for credit) Offered irregularly, this course provides opportunity to study special issues developments and programs in justice studies. Topics vary.

**Prerequisite:** Graduate standing and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 1-3 lecture

**Grade Mode:** Standard Letter

**CRIM 66796 INDIVIDUAL INVESTIGATION 1-3 Credit Hours**

(Repeatable for credit) Intensive study of a subject which the student cannot normally pursue in a regularly scheduled course. Individual investigation topic must be approved by instructor and graduate coordinator.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Individual Investigation

**Contact Hours:** 1-3 other

**Grade Mode:** Standard Letter

**CRIM 66875 PROSEMINAR CAPSTONE: ISSUES IN CONTEMPORARY JUSTICE 3 Credit Hours**

Capstone experience required of all MA students. An analysis of current issues in the legislative, policing, judicial, and correctional components of the justice system. Students synthesize knowledge through the completion of an approved, written project that is analytical and research-based.

**Prerequisite:** CRIM 56705 or CRIM 66766; and CRIM 56800 and CRIM 66761 and CRIM 66763 and CRIM 66768 and CRIM 66770 and CRIM 66772; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

## Cultural Foundations (CULT)

**CULT 20091 PREPROFESSIONAL SEMINAR IN EDUCATIONAL STUDIES 2-4 Credit Hours**

(Repeatable for credit) Introduction to the nature and scope of educational service delivery across settings, and to the social and cultural foundations of educational policies and programs. Open to any university student and to those considering alternative careers in education.

**Prerequisite:** None.

**Schedule Type:** Seminar

**Contact Hours:** 2-4 other

**Grade Mode:** Standard Letter

**CULT 29535 EDUCATION IN A DEMOCRATIC SOCIETY 3 Credit Hours**

Students utilize readings, explore themes, broadly explore purposes of school in society and what knowledge, dispositions and performances are necessary to be a successful teacher today.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** CTAG Education, TAG Education

**CULT 39539 INTRODUCTION TO THE PHILOSOPHY OF EDUCATION 3 Credit Hours**

An introduction to the philosophical analysis of educational problems focusing on the goals of education and the school's role in achieving these goals.

**Prerequisite:** Junior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CULT 39595 SPECIAL TOPICS IN CULTURAL FOUNDATIONS 2-4 Credit Hours**

(Repeatable for credit) Directed reading and/or research of special interest or need to small groups of students in cultural foundations. Planned with and directed by a faculty member.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 2-4 lecture

**Grade Mode:** Standard Letter-IP

**CULT 39596 INDIVIDUAL INVESTIGATION IN CULTURAL FOUNDATIONS 1-3 Credit Hours**

(Repeatable for credit) Directed independent reading and/or research of special interest or need in student program. Planned with and directed by a faculty member.

**Prerequisite:** Special approval.

**Schedule Type:** Individual Investigation

**Contact Hours:** 1-3 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**CULT 40093 VARIABLE TITLE WORKSHOP IN CULTURAL FOUNDATIONS 1-4 Credit Hours**

(Repeatable for credit) (Slashed with CULT 50093 and CULT 70093) Variable topics; designed to respond to specialized needs of various groups within the context of trends issues and problems in the educational foundations disciplines.

**Prerequisite:** Special approval.

**Schedule Type:** Workshop

**Contact Hours:** 1-4 other

**Grade Mode:** Satisfactory/Unsatisfactory

**CULT 49570 SOCIAL FOUNDATIONS OF MULTICULTURAL EDUCATION 3 Credit Hours**

Explores the history, social context, and issues in multicultural education (formal PK-12) in the U.S. Students gain an appreciation of the challenges of equalizing opportunity of educational achievement, an understanding that is essential for 21st century educational leadership.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CULT 50093 VARIABLE TITLE WORKSHOP IN CULTURAL FOUNDATIONS 1-4 Credit Hours**

(Repeatable for credit) (Slashed with CULT 40093 and CULT 70093)  
Offered on request of school system. Enrollment limited to teachers, administrators or supervisors who are employed in sponsoring system and who are accepted to the university.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Workshop

**Contact Hours:** 1-4 other

**Grade Mode:** Satisfactory/Unsatisfactory

**CULT 59570 SOCIAL FOUNDATIONS OF MULTICULTURAL EDUCATION 3 Credit Hours**

Explores the history, social context, and issues in multicultural education (formal PK-12) in the U.S. Students gain an appreciation of the challenges of equalizing opportunity of educational achievement, an understanding that is essential for 21st century educational leadership.

**Prerequisite:** Graduate standing.

**Schedule Type:** Seminar

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CULT 60030 SOCIAL CONTEXTS OF EDUCATION: CONTEMPORARY ISSUES AND THEORY 3 Credit Hours**

(Slashed with CULT 80030) The course will explore contemporary social contexts of education through the lenses of major sociological perspectives, including seminal theoretical works and emerging contemporary scholarship. Students will become familiar with the uses of classic and current sociological theories in order to understand contemporary educational issues.

**Prerequisite:** Graduate standing.

**Schedule Type:** Seminar

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CULT 60050 HUMANITIES-ORIENTED RESEARCH IN EDUCATION 3 Credit Hours**

(Slashed with CULT 80050) Course is designed to give students an understanding of humanities-oriented approaches to research in education. This includes disciplinary approaches to the study of education (philosophy, history, literary theory) as well as humanities oriented theoretical work in the social sciences. Students will develop facility with key concepts as well as approaches to method and research design within these approaches.

**Prerequisite:** Graduate standing.

**Schedule Type:** Seminar

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CULT 60199 THESIS I 2-6 Credit Hours**

Thesis student must register for total of 6 hours, 2 to 6 hours in a single semester distributed over several semesters if desired.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Masters Thesis

**Contact Hours:** 2-6 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**CULT 60299 THESIS II 2 Credit Hours**

Thesis students must continue registration each semester until all degree requirements are met. Graduate standing.

**Prerequisite:** CULT 60199.

**Schedule Type:** Masters Thesis

**Contact Hours:** 2 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**CULT 65530 FOUNDATIONS OF EDUCATION AND HUMAN SERVICES 3 Credit Hours**

Inquiry into the assumptions and implications of educational policies and practices in education and human service settings through the application of historical, philosophical and sociological perspectives.

**Prerequisite:** Graduate standing.

**Schedule Type:** Seminar

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CULT 69510 CLASSICS IN PHILOSOPHY OF EDUCATION 3 Credit Hours**

(Repeatable for a maximum of 6 credit hours) (Slashed with CULT 79510) Philosophical exploration of the relationship between education and society and the dynamics of education through close reading and discussion of a selection of influential philosophical texts.

**Prerequisite:** Graduate standing.

**Schedule Type:** Seminar

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CULT 69521 MULTICULTURAL EDUCATIONAL PRACTICE AND POLICY 3 Credit Hours**

Interdisciplinary inquiry into issues of pluralism and its influence on professional practice in education and human service settings. Cross-cultural interaction will be analyzed; reflection on developing culturally responsive professional practice.

**Prerequisite:** Graduate standing.

**Schedule Type:** Seminar

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CULT 69522 ETHICS IN PROFESSIONAL PRACTICE 3 Credit Hours**

(Slashed with CULT 89522) An examination of ethics in schooling and other educational settings through foundational study and issue analysis; strong case study and professional application emphasis.

**Prerequisite:** Graduate standing.

**Schedule Type:** Seminar

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CULT 69530 MULTICULTURAL THEORIES AND SCHOLARSHIP IN EDUCATION 3 Credit Hours**

(Slashed with CULT 79530) An investigation of multicultural theories in education, the social sciences and humanities as articulated in the works of major scholars. Approaches to research and scholarship and contemporary issues in public discourse is explored.

**Prerequisite:** Graduate standing.

**Schedule Type:** Seminar

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CULT 69560 CONTEMPORARY PHILOSOPHY OF EDUCATION 3 Credit Hours**

(Slashed with CULT 79560) Explores a range of contemporary philosophical perspectives on the moral and political dimensions of education. Students will be introduced to the philosophical frameworks through which these questions are discussed within the field of philosophy of education and they will have opportunity to engage these debates in the course of carefully structured writing assignments.

**Prerequisite:** Graduate standing.

**Schedule Type:** Seminar

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CULT 69564 HISTORY OF AMERICAN EDUCATION 3 Credit Hours**

(Cross-listed with CULT 79564) European origins and American innovations in colonial education, rise of common school, completion of education ladder. Emphasis is on present status and recent developments.

**Prerequisite:** Graduate standing.

**Schedule Type:** Seminar

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CULT 69567 HISTORY OF HIGHER EDUCATION 3 Credit Hours**

(Slashed with CULT 79567) (Cross-listed with HIED 66600 and HIED 76600) Overview and exploration of history of higher education in the United States. Survey course covers ancient and medieval European antecedents but focuses largely on American Higher Education from the seventeenth through the 20th century. Students explore changes in student body, curricula and purposes of higher education in the U.S. in the context of American culture.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CULT 69569 INTERNATIONAL EDUCATION: FOUNDATIONAL ISSUES 3 Credit Hours**

(Slashed with CULT 79569) An introductory seminar to explore current foundational issues and challenges in education worldwide (nonformal, formal PK-advanced post-secondary education). Students gain an understanding of the socio-political, historical context of education worldwide and implications for local policy formation. An international-comparative approach connects and integrates cross-cultural literature, theoretical and research scholarship, on the impact of world dynamics on education. Students also explore the impact of education on economies and social compacts worldwide, with attention to inequalities or marginalities based on region, social status, ethnicity, race, religion, gender and disability.

**Prerequisite:** Graduate standing.

**Schedule Type:** Seminar

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CULT 69570 MULTICULTURAL EDUCATION: THEORY AND POLICY 3 Credit Hours**

(Slashed with CULT 79570) Theoretical foundations of cultural pluralism, structural marginalization processes, knowledge construction, equity pedagogy and praxis in intercultural relations, democratic change processes and policy addressing inequities in institutional practices.

**Prerequisite:** Graduate standing.

**Schedule Type:** Seminar

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CULT 69571 GLOBALIZATION AND EDUCATION 3 Credit Hours**

(Slashed with CULT 79571) A multi-disciplinary exploration of the impact of globalization/localization on the delivery and uses of education and the dynamics of power and resistance in globalized education.

**Prerequisite:** Graduate standing.

**Schedule Type:** Seminar

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CULT 69575 ANTHROPOLOGY AND EDUCATION 3 Credit Hours**

(Slashed with CULT 79575) Students explore the contributions that cultural and social anthropologists have made to the study of education broadly conceived, focusing particularly on studies addressing the interrelationships among education, culture and forms of social inequity. Through engaging in critical readings of classic and contemporary educational ethnographies, students explore the myriad ways in which 'culture' has been theoretically conceptualized as well as the implications of those conceptualizations for educational inquiry and practice.

**Prerequisite:** Graduate standing.

**Schedule Type:** Seminar

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CULT 69582 SOCIAL THEORIES IN EDUCATION 3 Credit Hours**

(Slashed with CULT 89582) This course examines both classic and contemporary social theories in education. Students will become familiar with different social theories, specifically focusing on strengths and limitations of various theoretical approaches. Students will also analyze the role social theories have had upon educational research, and examine different conceptual issues within various social theoretical traditions.

**Prerequisite:** Graduate standing.

**Schedule Type:** Seminar

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CULT 69591 SEMINAR IN CULTURAL FOUNDATIONS 1-5 Credit Hours**

(Repeatable for credit) (Slashed with CULT 89591) Variable topic seminar for advanced study of specialized topics and areas; in cultural foundations; emphasis on theory and research findings as related to educational practice.

**Prerequisite:** Graduate standing.

**Schedule Type:** Seminar

**Contact Hours:** 1-5 other

**Grade Mode:** Standard Letter

**CULT 69592 ADVANCED PRACTICUM AND INTERNSHIP IN CULTURAL FOUNDATIONS 2-6 Credit Hours**

(Repeatable for credit) (Slashed with CULT 89592) Supervised program in field setting involving application of theories, principles and methodology in cultural foundations of education; planned with and supervised by graduate faculty member.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Practical Experience

**Contact Hours:** 6-18 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**CULT 69595 SPECIAL TOPICS IN CULTURAL FOUNDATIONS 1-3 Credit Hours**

(Repeatable for credit) (Slashed with CULT 89595) Specific topic course offering in response to emerging student or program needs in cultural foundations of education.

**Prerequisite:** Graduate standing.

**Schedule Type:** Seminar

**Contact Hours:** 1-3 lecture

**Grade Mode:** Standard Letter

**CULT 69596 INDIVIDUAL INVESTIGATION IN CULTURAL FOUNDATIONS 1-3 Credit Hours**

(Repeatable for credit) (Slashed with CULT 89596) Students pursue an individual project on a specific topic in cultural foundations of education with approval and under direction of instructor.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Individual Investigation

**Contact Hours:** 1-3 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**CULT 69598 RESEARCH IN CULTURAL FOUNDATIONS 1-15 Credit Hours**

(Repeatable for credit) (Slashed with CULT 89598) Students pursue an individual research project on a specific topic in cultural foundations of education with approval and under direction of instructor.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Research

**Contact Hours:** 1-15 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**CULT 69691 VARIABLE CONTENT SEMINAR: GREAT IDEAS IN EDUCATION 3 Credit Hours**

(Repeatable for credit) (Slashed with CULT 89691) This course explores a great idea in education from multiple disciplinary perspectives (philosophical, sociological, historical) and looks at the ways in which the idea in question has shaped or could transform educational practice at multiple levels.

**Prerequisite:** Graduate standing.

**Schedule Type:** Seminar

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CULT 70093 VARIABLE TOPIC WORKSHOP IN CULTURAL FOUNDATIONS 1-4 Credit Hours**

(Repeatable for credit) (Slashed with CULT 40093 and CULT 50093) Offered on request of school system. Enrollment limited to teachers, administrators or supervisors who are employed in sponsoring system and who are accepted to the university. May be repeated once for total maximum credit of six hours.

**Prerequisite:** Doctoral standing; and special approval.

**Schedule Type:** Workshop

**Contact Hours:** 1-4 other

**Grade Mode:** Satisfactory/Unsatisfactory

**CULT 79510 CLASSICS IN PHILOSOPHY OF EDUCATION 3 Credit Hours**

(Repeatable for a maximum of 6 credit hours) (Slashed with CULT 69510) Philosophical exploration of the relationship between education and society and the dynamics of education through close reading and discussion of a selection of influential philosophical texts.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Seminar

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CULT 79530 MULTICULTURAL THEORIES AND SCHOLARSHIP IN EDUCATION 3 Credit Hours**

(Slashed with CULT 69530) An investigation of multicultural theories in education, the social sciences and humanities as articulated in the works of major scholars. Approaches to research and scholarship and contemporary issues in public discourse is explored.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Seminar

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CULT 79560 CONTEMPORARY PHILOSOPHY OF EDUCATION 3 Credit Hours**

(Slashed with CULT 69560) Explores a range of contemporary philosophical perspectives on the moral and political dimensions of education. Students will be introduced to the philosophical frameworks through which these questions are discussed within the field of philosophy of education and they will have opportunity to engage these debates in the course of carefully structured writing assignments.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Seminar

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CULT 79564 HISTORY OF AMERICAN EDUCATION 3 Credit Hours**

(Cross-listed with CULT 69564) European origins and American innovations in colonial education, rise of common school, completion of education ladder. Emphasis is on present status and recent developments.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Seminar

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CULT 79567 HISTORY OF HIGHER EDUCATION 3 Credit Hours**

(Slashed with CULT 69567) (Cross-listed with HIED 66600 and HIED 76600) Overview and exploration of history of higher education in the United States. Survey course covers ancient and medieval European antecedents but focuses largely on American Higher Education from the seventeenth through the 20th century. Students explore changes in student body, curricula and purposes of higher education in the U.S. in the context of American culture.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CULT 79569 INTERNATIONAL EDUCATION: FOUNDATIONAL ISSUES 3 Credit Hours**

(Slashed with CULT 69569) An introductory seminar to explore current foundational issues and challenges in education worldwide (nonformal, formal PK-advanced post-secondary education). Students gain an understanding of the socio-political, historical context of education worldwide and implications for local policy formation. An international-comparative approach connects and integrates cross-cultural literature, theoretical and research scholarship, on the impact of world dynamics on education. Students also explore the impact of education on economies and social compacts worldwide, with attention to inequalities or marginalities based on region, social status, ethnicity, race, religion, gender and disability. Gaining a broad understanding of the place of education in a rapidly changing world is essential for 21st century educational leadership and the formation of constructive policies for the future of both developed and developing countries.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Seminar

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter



**CULT 79570 MULTICULTURAL EDUCATION: THEORY AND POLICY 3 Credit Hours**

(Slashed with CULT 69570) Theoretical foundations of cultural pluralism, structural marginalization processes, knowledge construction, equity pedagogy and praxis in intercultural relations, democratic change processes and policy addressing inequities in institutional practices.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Seminar

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CULT 79571 GLOBALIZATION AND EDUCATION 3 Credit Hours**

(Cross-listed with CULT 69571) A multi-disciplinary exploration of the impact of globalization/localization on the delivery and uses of education and the dynamics of power and resistance in globalized education.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Seminar

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CULT 79575 ANTHROPOLOGY AND EDUCATION 3 Credit Hours**

(Slashed with CULT 69575) Students explore the contributions that cultural and social anthropologists have made to the study of education broadly conceived, focusing particularly on studies addressing the interrelationships among education, culture and forms of social inequity. Through engaging in critical readings of classic and contemporary educational ethnographies, students explore the myriad ways in which 'culture' had been theoretically conceptualized, as well as the implications of those conceptualizations for educational inquiry and practice.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Seminar

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CULT 80030 SOCIAL CONTEXTS OF EDUCATION: CONTEMPORARY ISSUES AND THEORY 3 Credit Hours**

(Slashed with CULT 80030) The course will explore contemporary social contexts of education through the lenses of major sociological perspectives, including seminal theoretical works and emerging contemporary scholarship. Students will become familiar with the uses of classic and current sociological theories in order to understand contemporary educational issues.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Seminar

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CULT 80050 HUMANITIES-ORIENTED RESEARCH IN EDUCATION 3 Credit Hours**

(Slashed with CULT 60050) Course is designed to give students an understanding of humanities-oriented approaches to research in education. This includes disciplinary approaches to the study of education (philosophy, history, literary theory) as well as humanities oriented theoretical work in the social sciences. Students will develop facility with key concepts as well as approaches to method and research design within these approaches.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Seminar

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CULT 80090 DOCTORAL RESIDENCY SEMINAR 3 Credit Hours**

Advanced doctoral residency seminar for students in all areas of educational foundations. Focus on current and emergent issues research and trends in education in multiple settings.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Seminar

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**CULT 80091 SEMINAR: GREAT ISSUES IN EDUCATION 1-3 Credit Hours**

(Repeatable for credit) Interdisciplinary review of current great issues in education that are catalogs for presentation after discussion with membership of the course.

**Prerequisite:** Open to doctoral students from any field.

**Schedule Type:** Seminar

**Contact Hours:** 1-3 other

**Grade Mode:** Standard Letter

**CULT 80199 DISSERTATION I 15 Credit Hours**

(Repeatable for credit) Doctoral dissertation for which registration in at least two semesters is required, first of which will be semester in which dissertation work is begun and continuing until the completion of 30 hours.

**Prerequisite:** Doctoral standing; and special approval.

**Schedule Type:** Dissertation

**Contact Hours:** 15 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**CULT 80299 DISSERTATION II 15 Credit Hours**

(Repeatable for credit) Continuing registration required of doctoral students who have completed the initial 30 hours of dissertation and continuing until all degree requirements are met.

**Prerequisite:** CULT 80199; and doctoral standing.

**Schedule Type:** Dissertation

**Contact Hours:** 15 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**CULT 85535 INTERPROFESSIONAL STUDIES 3 Credit Hours**

Comprehensive analysis of issues affecting professional practice in education and human service resource settings. Examination of questions related to interprofessional collaboration on policy, research and practice.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Seminar

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CULT 89521 MULTICULTURAL EDUCATIONAL PRACTICE AND POLICY 3 Credit Hours**

Interdisciplinary inquiry into issues of pluralism and its influence on professional practice in education and human service settings. Cross-cultural interaction will be analyzed; reflection on developing culturally responsive professional practice.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Seminar

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter



**CULT 89522 ETHICS IN PROFESSIONAL PRACTICE 3 Credit Hours**  
(Slashed with CULT 69522) An examination of ethics in schooling and other educational settings through foundational study and issue analysis; strong case study and professional application emphasis.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Seminar

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CULT 89571 COMPARATIVE AND INTERNATIONAL EDUCATION 3 Credit Hours**

Comparative analysis of contemporary educational policies and structures in large-and small scale societies throughout the world.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Seminar

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CULT 89581 PROSEMINAR IN CULTURAL FOUNDATIONS 3 Credit Hours**

Doctoral seminar to familiarize Ph.D. students with cultural and social foundations of education as a field of study so that they may locate their inquiry within the relevant knowledge base and academic disciplines that comprise the cultural foundations of education.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Seminar

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CULT 89582 SOCIAL THEORIES IN EDUCATION 3 Credit Hours**

(Slashed with CULT 69582) This course examines both classic and contemporary social theories in education. Students will become familiar with different social theories, specifically focusing on strengths and limitations of various theoretical approaches. Students will also analyze the role social theories have had upon educational research, and examine different conceptual issues within various social theoretical traditions.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Seminar

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CULT 89591 SEMINAR IN CULTURAL FOUNDATIONS 1-5 Credit Hours**

(Repeatable for credit) (Slashed with CULT 69591) Variable topic seminar for advanced study of specialized topics and areas in cultural foundations; emphasis on theory and research findings as related to educational practice.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Seminar

**Contact Hours:** 1-5 other

**Grade Mode:** Standard Letter

**CULT 89592 ADVANCED PRACTICUM AND INTERNSHIP IN CULTURAL FOUNDATIONS 2-6 Credit Hours**

(Repeatable for credit) (Slashed with CULT 69592) Supervised program in field setting involving application of theories, principles and methodology in cultural foundations of education; planned with and supervised by graduate faculty member.

**Prerequisite:** Doctoral standing; and special approval.

**Schedule Type:** Practical Experience

**Contact Hours:** 6-18 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**CULT 89595 SPECIAL TOPICS IN CULTURAL FOUNDATIONS 1-3 Credit Hours**

(Repeatable for credit) (Slashed with CULT 69595) Specific topic course offering in response to emerging student or program needs in cultural foundations of education.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Seminar

**Contact Hours:** 1-3 lecture

**Grade Mode:** Standard Letter

**CULT 89596 INDIVIDUAL INVESTIGATION IN CULTURAL FOUNDATIONS 1-3 Credit Hours**

(Repeatable for credit) (Slashed with CULT 69596) Students pursue an individual project on a specific topic in cultural foundations of education with approval and under direction of instructor.

**Prerequisite:** Doctoral standing; and special approval.

**Schedule Type:** Individual Investigation

**Contact Hours:** 1-3 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**CULT 89598 RESEARCH IN CULTURAL FOUNDATIONS 1-15 Credit Hours**

(Repeatable for credit) (Slashed with CULT 69598) Students pursue an individual research project on a specific topic in cultural foundations of education with approval and under direction of instructor.

**Prerequisite:** Doctoral standing; and special approval.

**Schedule Type:** Research

**Contact Hours:** 1-15 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**CULT 89691 VARIABLE CONTENT SEMINAR: GREAT IDEAS IN EDUCATION 3 Credit Hours**

(Repeatable for credit) (Slashed with CULT 69691) This course explores a great idea in education from multiple disciplinary perspectives (philosophical, sociological, historical) and looks at the ways in which the idea in question has shaped or could transform educational practice at multiple levels.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Seminar

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

## Curriculum and Instruction (CI)

**CI 40093 VARIABLE TITLE WORKSHOP IN CURRICULUM AND INSTRUCTION 1-5 Credit Hours**

(Slashed with CI 50093 and CI 70093)(Repeatable for credit) Variable topic workshop designed to respond to curriculum trends and issues and specialized needs.

**Prerequisite:** Special approval.

**Schedule Type:** Workshop

**Contact Hours:** 1-5 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**CI 47095 SPECIAL TOPICS IN CURRICULUM AND INSTRUCTION 1-5 Credit Hours**

(Repeatable for credit) Topic varies for each offering.

**Prerequisite:** Special approval.

**Schedule Type:** Lecture

**Contact Hours:** 1-5 lecture

**Grade Mode:** Standard Letter-IP

**CI 47096 INDIVIDUAL INVESTIGATION IN CURRICULUM AND INSTRUCTION 1-5 Credit Hours**

(Repeatable for credit) Student-initiated experience to pursue an area of interest not covered by a regular course offering, with the guidance of a Kent State faculty member.

**Prerequisite:** Special approval.

**Schedule Type:** Individual Investigation

**Contact Hours:** 1-5 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**CI 47195 SPECIAL TOPICS IN CURRICULUM AND INSTRUCTION 1-5 Credit Hours**

(Repeatable for credit) Student teaching topics vary for each offering.

**Prerequisite:** Special approval.

**Schedule Type:** Practical Experience

**Contact Hours:** 1-5 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**CI 47330 READING AND WRITING IN ADOLESCENCE/ADULTHOOD 3 Credit Hours**

(Slashed with CI 57330) Understanding of literacy learning in adolescence and adulthood (ages 12-21) with an emphasis on strategies for text learning, literacy in electronic environments and teaching students who struggle as readers and writers.

**Prerequisite:** Admission to advanced study.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CI 47501 TEACHING MATHEMATICS IN EARLY AND MIDDLE GRADES 3 Credit Hours**

(Slashed with CI 57501) Addresses pedagogical content knowledge for the teaching and learning of mathematics in grades K-9, based on the national content and process standards.

**Prerequisite:** MATH 14001 or MATH 14002 with a minimum C grade; and admission to advanced study.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CI 47502 SCIENCE TEACHING IN EARLY AND MIDDLE GRADES 3 Credit Hours**

(Slashed with CI 57502) Addresses pedagogical content knowledge for the teaching and learning of science in grades K-9. Students examine how to best align science practice to state and national standards.

**Prerequisite:** Admission to advanced study.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CI 47503 TEACHING SOCIAL STUDIES IN EARLY AND MIDDLE GRADES 3 Credit Hours**

(Slashed with CI 57503) Addresses pedagogical content knowledge for the teaching and learning of social studies in grades K-9, based on the national content and process standards.

**Prerequisite:** Admission to advanced study.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CI 47504 TEACHING READING AND WRITING IN MIDDLE GRADES 3 Credit Hours**

(Slashed with CI 57504) Addresses pedagogical content knowledge for the teaching and learning of reading and writing in grades 4-9, based on the national content and process standards.

**Prerequisite:** Admission to advanced study.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CI 47505 INTEGRATED SOCIAL STUDIES AND SCIENCE 3 Credit Hours**

(Slashed with CI 57505) Addresses principles of teaching and learning as applied to teaching social studies and science in elementary and middle grades. Students examine how to best align social studies and science practice with state and national standards.

**Prerequisite:** Admission to advanced study.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CI 50093 VARIABLE TITLE WORKSHOP IN CURRICULUM AND INSTRUCTION 1-5 Credit Hours**

(Slashed with CI 40093 and CI 70093)(Repeatable for credit) Variable topic workshop designed to respond to curriculum trends and issues and specialized needs.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Workshop

**Contact Hours:** 1-5 other

**Grade Mode:** Satisfactory/Unsatisfactory

**CI 50095 SPECIAL TOPICS: SEMINAR/WORKSHOP IN CURRICULUM AND INSTRUCTION 1 Credit Hour**

(Repeatable for credit) Topics varies for each offering. Seminar workshop for International Baccalaureate program.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 1 lecture

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**CI 55015 PSYCHOLOGY OF COACHING 3 Credit Hours**

(Slashed with PESP 45015) Factors affecting athletic performance emphasizing skill, motivation, personality and practice conditions.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CI 55020 CONTEMPORARY ATHLETIC COACHING 3 Credit Hours**

(Slashed with PESP 45020) A focus on the philosophy, skills, strategies and tactics of coaching within contemporary society.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CI 55051 ELEMENTARY SCHOOL PHYSICAL EDUCATION METHODS  
3 Credit Hours**

(Slashed with PESP 45051) Approaches to teaching in elementary school physical education. Focus on establishing an environment for learning, planning standards based lessons, instructional effectiveness, and assessment of student learning. Students are required to complete Bureau of Criminal Investigation and Identification (BCII) and Federal Bureau of Investigation (FBI) background checks and submit the results to authorized personnel at their assigned school-agency before the first day of field experience.

**Prerequisite:** Physical Education Teacher Education concentration in the Curriculum and Instruction major; and graduate standing; and special approval.

**Corequisite:** CI 55053.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 2 lecture, 2 lab

**Grade Mode:** Standard Letter

**CI 55053 ELEMENTARY SCHOOL PHYSICAL EDUCATION CONTENT  
3 Credit Hours**

(Slashed with PESP 45053) Physical education content for the elementary school child with emphasis on developmentally appropriate learning in three domains. Students are required to complete Bureau of Criminal Investigation and Identification (BCII) and Federal Bureau of Investigation (FBI) background checks and submit the results to authorized personnel at their assigned school-agency before the first day of field experience.

**Prerequisite:** Graduate standing; and special approval.

**Corequisite:** CI 55051.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 2 lecture, 2 lab

**Grade Mode:** Standard Letter

**CI 55058 SECONDARY SCHOOL PHYSICAL EDUCATION METHODS 3  
Credit Hours**

(Slashed with PESP 45058) Approaches to teaching in secondary physical education. Focus on management of the learning environment, planning for learning outcomes in three domains, instructional effectiveness, and sequential curriculum development. Students are required to complete Bureau of Criminal Investigation and Identification (BCII) and Federal Bureau of Investigation (FBI) background checks and submit the results to authorized personnel at their assigned school-agency before the first day of field experience.

**Prerequisite:** Graduate standing; and special approval.

**Corequisite:** CI 55059.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 2 lecture, 2 lab

**Grade Mode:** Standard Letter

**CI 55059 SECONDARY SCHOOL PHYSICAL EDUCATION CONTENT 3  
Credit Hours**

(Slashed with PESP 45059) Introduction and development of content, standards-based curriculum models, management and organizational skills related to sports and activities utilized in secondary school physical education. Students are required to complete Bureau of Criminal Investigation and Identification (BCII) and Federal Bureau of Investigation (FBI) background checks and submit the results to authorized personnel at their assigned school-agency before the first day of field experience.

**Prerequisite:** Graduate standing; and special approval.

**Corequisite:** CI 55058.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 2 lecture, 2 lab

**Grade Mode:** Standard Letter

**CI 57330 READING AND WRITING IN ADOLESCENCE/ADULTHOOD 3  
Credit Hours**

(Slashed with CI 47330) Understanding of literacy learning in adolescence and adulthood (ages 12-21) with an emphasis on strategies for text learning, literacy in electronic environments, and teaching students who struggle as readers and writers.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CI 57501 TEACHING MATHEMATICS IN EARLY AND MIDDLE GRADES  
3 Credit Hours**

(Slashed with CI 47501) Addresses pedagogical content knowledge for the teaching and learning of mathematics in grades K-9, based on the national content and process standards.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CI 57502 SCIENCE TEACHING IN EARLY AND MIDDLE GRADES 3  
Credit Hours**

(Slashed with CI 47502) Addresses pedagogical content knowledge for the teaching and learning of science in grades K-9. Students examine how to best align science practice to state and national standards.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CI 57503 TEACHING SOCIAL STUDIES IN EARLY AND MIDDLE GRADES  
3 Credit Hours**

(Slashed with CI 47503) Addresses pedagogical content knowledge for the teaching and learning of social studies in grades K-9, based on the national content and process standards.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CI 57504 TEACHING READING AND WRITING IN MIDDLE GRADES 3  
Credit Hours**

(Slashed with CI 47504) Addresses pedagogical content knowledge for the teaching and learning of reading and writing in grades 4-9, based on the national content and process standards.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CI 57505 INTEGRATED SOCIAL STUDIES AND SCIENCE 3 Credit  
Hours**

(Slashed with CI 47505) Addresses principles of teaching and learning as applied to teaching social studies and science in elementary and middle grades. Students examine how to best align social studies and science practice with state and national standards.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CI 60199 THESIS I 2-6 Credit Hours**

Thesis students must register for a total of 6 hours, 2 to 6 hours in a single semester distributed over several semesters if desired.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Masters Thesis

**Contact Hours:** 2-6 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**CI 60299 THESIS II 2 Credit Hours**

Thesis students must continue registration each semester until all degree requirements are met.

**Prerequisite:** CI 60199; and Graduate standing.

**Schedule Type:** Masters Thesis

**Contact Hours:** 2 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**CI 61124 EDUCATING THE GOOD CITIZEN 3 Credit Hours**

(Slashed with CI 71124) Course explores the competing conceptions of citizenship education through an examination and critique of the diverse perspectives on the purposes and possibilities of citizenship education—including the contributions and influence of multicultural, international and theoretical perspectives on the meaning of educating citizens in a democracy—situating work, thinking and practice in the literature. As part of the process of reading, discussing and deliberating together, students articulate a rationale for citizenship education and develop ways to incorporate their vision for citizenship education into their work as teacher educators, practicing social studies teachers and/or community members.

**Prerequisite:** Graduate standing.

**Schedule Type:** Seminar

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**CI 61125 ISSUES AND TRENDS IN SOCIAL STUDIES EDUCATION 3 Credit Hours**

(Slashed with CI 71125) Provides an overview of historical trends and contemporary issues in social studies education.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CI 61126 RESEARCH IN SOCIAL STUDIES TEACHING AND LEARNING 3 Credit Hours**

(Slashed with CI 71126) Students examine, discuss and study research in the teaching and learning of social studies, as well as develop their own study of social studies teaching and learning.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CI 61127 TECHNOLOGY AND SOCIAL STUDIES 3 Credit Hours**

(Slashed with CI 71127) Course provides experiences with and study of various uses of technology in social studies teaching and learning. Students examine implications and effects of technology on student learning, teaching and society as a whole.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CI 61130 MULTICULTURAL EDUCATION: STRATEGIES 3 Credit Hours**

(Slashed with CI 71130) Course provides the strategies for teaching children to function effectively in a pluralistic society.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CI 61133 ISSUES AND TRENDS IN ELEMENTARY SCIENCE 3 Credit Hours**

(Slashed with CI 71133) New discoveries in science, including issues in society with direct science content. Emphasis is on practical and simple classroom applications.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CI 61134 RESEARCH TRENDS IN SCIENCE EDUCATION 3 Credit Hours**

(Slashed with CI 71134) Course in issues relating to research methods pertinent to science education.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CI 61140 CULTURE AND MULTICULTURALISM IN SCIENCE EDUCATION 3 Credit Hours**

(Slashed with CI 71140) Provides a general introduction to the impacts of multiculturalism and the social studies of science on science education. Implications for science educational curriculum theory, classroom practice and research are explored. Teaching topics examined include race and gender in science education, culture of science and science in a global context.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CI 61141 NATURE OF SCIENCE IN SCIENCE EDUCATION 3 Credit Hours**

(Slashed with CI 71141) Course in issues relating to the nature of science as it impacts science education.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CI 63193 VARIABLE TITLE WORKSHOP IN EXERCISE, LEISURE AND SPORT 1-3 Credit Hours**

(Repeatable for credit) Workshop in exercise, leisure and sport. Topics vary. Maximum 4 credit hours applied to the degree.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Workshop

**Contact Hours:** 1-3 other

**Grade Mode:** Satisfactory/Unsatisfactory

**CI 65025 CONTEMPORARY ISSUES IN SPORT PEDAGOGY - AN INTERNATIONAL PERSPECTIVE 3 Credit Hours**

(Slashed with CI 85025) An international perspective on the investigation and study of current problems, issues and trends in sport pedagogy.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CI 65037 ADAPTED PHYSICAL EDUCATION 3 Credit Hours**

(Slashed with CI 85037) Course prepares physical education teachers to provide safe, appropriate and individualized accommodations to students with disabilities. All information presented is structured around research-based and cross-culturally appropriate practices in adapted physical education that have been implemented in physical education programs globally.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CI 65044 PEDAGOGICAL ANALYSIS OF PHYSICAL EDUCATION AND SPORT 3 Credit Hours**

(Slashed with CI 85044) An analysis of contemporary pedagogical models, practices and theories relevant to the multidimensional environments of physical education and sport.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CI 65055 CURRICULUM DEVELOPMENT IN SPORT PEDAGOGY 3 Credit Hours**

(Slashed with CI 85055) The analysis, development and design of curricular theory and practice in physical education and sport. An examination of current and future issues in curriculum implementation.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CI 65392 ADVANCED PRACTICUM IN PHYSICAL EDUCATION 10 Credit Hours**

(Repeatable for credit) A 16-week practicum in K-12 physical education, combining full-time student teaching and student teaching seminar. Students spend eight weeks student teaching at the preschool to fifth-grade level and then eight weeks at the sixth- to 12th-grade level. Students are required to complete Bureau of Criminal Investigation and Identification (BCII) and Federal Bureau of Investigation (FBI) background checks and submit the results to authorized personnel at their assigned school/agency before the first day of the semester in which student teaching/ internship will take place. Official valid certification of Child Safety Training, approved Basic Life Support and ALICE training must be presented to the campus office of clinical experience or designated faculty/staff at regional campuses as prerequisite for student teaching.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Practical Experience, Seminar

**Contact Hours:** 3 lecture, 32 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**CI 65592 PRACTICUM IN ADAPTED PHYSICAL EDUCATION 3 Credit Hours**

(Repeatable for credit) Supervised and supervisory experiences in motor development for all ages and abilities, including conceptual bases for assessment and individualized task analysis.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Practical Experience

**Contact Hours:** 9 other

**Grade Mode:** Standard Letter-IP

**CI 65692 INTERNSHIP IN ATHLETIC COACHING 2-4 Credit Hours**

(Repeatable for a maximum of 4 credits) Supervised experience in organized sport focused upon the duties of a coach; can involve one or more level (youth, school, college, professional) and sport. A focus on the philosophy, skills, strategies and tactics of coaching within contemporary society. 45 contact hours per credit. Students are required to complete Bureau of Criminal Investigation and Identification (BCII) and Federal Bureau of Investigation (FBI) background checks and submit the results to authorized personnel at their assigned school-agency before the first day of the semester in which student teaching-internship will take place.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Practical Experience

**Contact Hours:** 6-12 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**CI 67001 FUNDAMENTALS OF CURRICULUM 3 Credit Hours**

(Slashed with CI 77001) Orientation to the curriculum field. Theoretical examination of foundations, elements, design and development of school, college and non-school curricula.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CI 67002 CURRICULUM LEADERSHIP 3 Credit Hours**

(Slashed with CI 77002) Course explores the theories and practices of curriculum leadership with reference to the current politics of education and the democratic ideals of information-age, pluralistic societies. Mandated accountability reform is critically compared to invited professional renewal.

**Prerequisite:** CI 67001; and Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CI 67003 TEACHER EDUCATION 3 Credit Hours**

(Slashed with CI 77003) Course provides a broad overview of teacher education, including curriculum, organization, governance and policy.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CI 67004 PROFESSIONAL DEVELOPMENT IN TEACHING 3 Credit Hours**

(Slashed with CI 77004) Course provides a broad overview and conceptual framework for professional development; its historical, cultural, psychological and social contexts.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter



**CI 67005 INTERCULTURAL DIMENSIONS OF TEACHING AND LEARNING 3 Credit Hours**

(Slashed with CI 77005) Course addresses teaching and learning in the intercultural K-16 context. Increasing intercultural interaction in schools and communities across the nation and around the world are prompting educational changes in terms of what is being taught and how it is being taught. Educators at all levels are increasingly being called upon to enhance their own intercultural competence and to consider how best to translate this to students in their charge.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CI 67007 CRITICAL REFLECTION IN CURRICULUM AND INSTRUCTION 2 Credit Hours**

Capstone course for a master's degree in curriculum and instruction. Students critique their content area studies with reference to the standard of curriculum-based pedagogy. Three concepts inform this critique: continuing professional development, multicultural education, curriculum leadership for reform and renewal.

**Prerequisite:** CI 67001; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**CI 67010 CURRICULUM EVALUATION 3 Credit Hours**

(Slashed with CI 77010) Students learn to plan for and use a variety of techniques to gather information in systematic ways, across different phases of curriculum planning, development, implementation and evaluation to enhance decision-making processes. Students develop evaluation questions around a curriculum or program of their choice and then design a detailed evaluation plan.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CI 67091 SEMINAR IN CURRICULUM AND INSTRUCTION 1-4 Credit Hours**

(Slashed with CI 87091)(Repeatable for credit) A wide range of topics for advanced graduate inquiry. Normally, course provides a balance of theoretical study and creative application.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Seminar

**Contact Hours:** 1-4 other

**Grade Mode:** Standard Letter-IP

**CI 67092 ADVANCED PRACTICUM AND INTERNSHIP IN CURRICULUM AND INSTRUCTION 1-3 Credit Hours**

(Repeatable for credit) Supervised practicum in curriculum design, development, implementation and-or leadership. Planned with and directed by a graduate faculty member. Students are required to complete Bureau of Criminal Investigation and Identification (BCII) and Federal Bureau of Investigation (FBI) background checks and submit the results to authorized personnel at their assigned school-agency before the first day of the semester in which student teaching internship will take place.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Practical Experience

**Contact Hours:** 3-9 other

**Grade Mode:** Satisfactory/Unsatisfactory

**CI 67095 SPECIAL TOPICS IN CURRICULUM AND INSTRUCTION 1-5 Credit Hours**

(Slashed with CI 77095)(Repeatable for credit) Specialized offerings in response to emerging or selected program needs in curriculum design, development and implementation.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 1-5 lecture

**Grade Mode:** Standard Letter

**CI 67096 INDIVIDUAL INVESTIGATION IN CURRICULUM AND INSTRUCTION 1-5 Credit Hours**

(Repeatable for credit) Directed independent reading and/or research of special interest or need in student's program. Planned with and directed by a graduate faculty member.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Individual Investigation

**Contact Hours:** 1-5 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**CI 67098 RESEARCH IN CURRICULUM AND INSTRUCTION 1-15 Credit Hours**

(Repeatable for credit) Students pursue an individualized research project on a specialized topic with approval and under direction of instructor.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Research

**Contact Hours:** 1-15 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**CI 67105 IMPROVING CLASSROOM INSTRUCTION 3 Credit Hours**

(Slashed with CI 77105) Emphasizes motivation, varied materials and methods, individual needs and sources of teacher help. Class members define goals and means.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CI 67107 CURRICULUM AND ORGANIZATION IN THE MIDDLE GRADES 3 Credit Hours**

(Slashed with CI 77107) Course enhances students' knowledge, skills and dispositions about curriculum history and organization of middle schools (grades 4-9) that is developmentally responsive to early adolescents, and promotes student achievement and equity. In addition, students are able to extend their knowledge, skills, techniques and professional dispositions as related to middle school students' experiences, as well as to differentiate curriculum and assessment for diverse learners.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CI 67108 TEACHING AND LEARNING IN THE MIDDLE GRADES 3 Credit Hours**

(Slashed with CI 77108) Course emphasizes theories of learning and teaching and their application to teaching in middle childhood classrooms with a diversity of learners. Major class topics include lesson planning, teaching strategies, assessment, classroom management and effective classroom instructions. In a concurrent clinical field experience, teacher candidates apply teaching methods in intermediate-middle school classrooms.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CI 67224 TEACHING MATHEMATICS USING COMPUTERS AND CALCULATORS 3 Credit Hours**

(Slashed with CI 77224) Students develop knowledge of research and theories regarding teaching and learning mathematics via computing devices. Students develop proficiency in the use of computing devices and software that would be used in the teaching and learning of mathematics.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CI 67225 RESEARCH IN MATHEMATICS EDUCATION 3 Credit Hours**

(Slashed with CI 77225) Current research theory, methodology and results in mathematics education are investigated. Implications for instructional practice and curriculum design are examined.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CI 67226 IMPROVING MATHEMATICS INSTRUCTION IN MIDDLE CHILDHOOD 3 Credit Hours**

(Slashed with CI 77226) Instructional psychology and materials, including technology, for the effective teaching of mathematics in grades 3-8, with a theoretical emphasis on cognitive development.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CI 67227 ASSESSMENT IN MATHEMATICS EDUCATION 2 Credit Hours**

(Slashed with CI 77227) Investigation of standards and practices in mathematical assessments as recommended by current research and the National Council of Teachers of Mathematics.

**Prerequisite:** Two courses from the following: ADED 52267, CI 67224, CI 67226 and/or ECED 50147; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**CI 67228 INTERVENTION IN MATHEMATICS INSTRUCTION 2 Credit Hours**

(Slashed with CI 77228) Investigation of alternative methods of teaching mathematics to diverse learners who experience difficulties in learning mathematics.

**Prerequisite:** Two courses from the following: ADED 52267, CI 67224, CI 67226 and/or ECED 50147; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**CI 67240 INTRODUCTION TO ENVIRONMENTAL EDUCATION 3 Credit Hours**

(Slashed with CI 77240) Survey course emphasizes current debates in environmental issues, exploring the interconnectedness of ecology, understanding the impact of culture and education on notions of environmental concerns, and how these ideas can be investigated within classroom contexts. The course is designed for teachers, science educators and other concerned citizens of the earth.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CI 67292 PRACTICUM IN MATHEMATICAL ASSESSMENT 2 Credit Hours**

(Repeatable for credit) Practicum experience in designing and administering both formal and informal assessments.

**Prerequisite:** Two courses from the following: ADED 52267, CI 67224, CI 67226 and/or ECED 50147; and graduate standing.

**Schedule Type:** Practical Experience

**Contact Hours:** 6 other

**Grade Mode:** Standard Letter

**CI 67310 THEORY AND PRACTICE IN THE TEACHING OF READING 3 Credit Hours**

(Slashed with CI 77310) Nature and development of reading, approaches to instruction, relation to learning and development.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CI 67312 TEACHING WRITING AS A PROCESS 3 Credit Hours**

(Slashed with CI 77312) Course emphasizes a process approach to writing instruction in grades K-12. Examines the steps and studies of composing, evaluation and components of a school-wide program.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CI 67314 SURVEY OF YOUNG ADULT LITERATURE 3 Credit Hours**

(Slashed with CI 77314) Presents a survey of selected types of literature appropriate for students in middle school, junior high and high school. Emphasis on evaluating, selecting and teaching.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CI 67315 SURVEY OF CHILDREN'S LITERATURE 3 Credit Hours**

(Slashed with CI 77315) Wide reading in children's literature, with particular application to school curriculum and field of reading.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CI 67319 DIAGNOSIS AND REMEDIATION IN READING 3 Credit Hours**

(Slashed with CI 77319) Theory and application of diagnostic principles and remedial reading approaches with school-age children. Cultural, linguistic, cognitive and effective factors in diagnosing and remediating reading problems.

**Prerequisite:** CI 67310; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CI 67320 TEACHER AS LITERACY RESEARCHER 3 Credit Hours**

Capstone experience in master's program in literacy in which students pursue an individualized literacy research program.

**Prerequisite:** CI 67351 or EVAL 65510 or EVAL 65511; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CI 67330 READING IN CONTENT AREAS 3 Credit Hours**

(Slashed with CI 77330) Information and competencies for improving students' reading and studying in the content areas. Focus on intermediate grades through post-secondary years.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CI 67339 WRITING ASSESSMENT AND RESPONSE 3 Credit Hours**

(Slashed with CI 77339) Exploration of issues in writing assessment, theoretical base for effective formative response to student writing and design, and implementation of writing assessment measures.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CI 67351 PERSPECTIVES ON LITERACY RESEARCH 3 Credit Hours**

(Slashed with CI 77351) Inquiry into basic concepts and agendas for research through a study of historical, landmark and ground-breaking studies in literacy.

**Prerequisite:** Reading Specialization major; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CI 67352 LITERACY COACHING 3 Credit Hours**

(Slashed with CI 77352) Focus on principles and strategies related to literacy coaching, within classrooms, schools and districts.

**Prerequisite:** CI 67310 and CI 67319 and CI 67330 and CI 67692 and MCED 50005; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CI 67353 MULTICULTURAL VOICES IN TEACHING CHILDREN'S AND YOUNG ADULT LITERATURE 3 Credit Hours**

(Slashed with CI 77353) Exploring diverse voices in children's and young adult literature in K-12 literacy classrooms to support culturally responsive teaching and learning and broaden student understandings of diversity.

**Prerequisite:** Reading Specialization major; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CI 67392 ADVANCED PRACTICUM AND INTERNSHIP IN READING 1-10 Credit Hours**

(Repeatable for credit) Supervised practicum requiring application of theory and practices in reading in field settings. Planned with and directed by a graduate faculty member. Students are required to complete Bureau of Criminal Investigation and Identification (BCII) and Federal Bureau of Investigation (FBI) background checks and submit the results to authorized personnel at their assigned school/agency before the first day of the semester in which student teaching/ internship will take place.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Practical Experience

**Contact Hours:** 3-30 other

**Grade Mode:** Standard Letter

**CI 67395 SPECIAL TOPICS IN READING 1-5 Credit Hours**

(Slashed with CI 77395)(Repeatable for credit) Specialized offerings in response to emerging or selected program needs in reading.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 1-5 lecture

**Grade Mode:** Standard Letter

**CI 67396 INDIVIDUAL INVESTIGATION IN READING AND LANGUAGE ARTS 1-5 Credit Hours**

(Repeatable for credit) Directed independent reading and/or research of special interest or need in student's program. Planned with and directed by a graduate faculty member.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Individual Investigation

**Contact Hours:** 1-5 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**CI 67517 NEW LITERACIES IN PRACTICE 3 Credit Hours**

(Slashed with CI 87517) Developing technologies are changing the very definition of literacy. Designed to provide an overview of current (and past) theory and practices related to the growing line of inquiry known as new literacies. Participants of the class follow their own paths of inquiry related to the question: How is the definition of literacy changing? Participants engage in discussions of theoretical positions related to this question (from perspectives as new literacies, multi-literacies and arts-based knowing to name a few) as well as encounter the basics of creating a blog or wiki and editing video. Appropriate for any educator who is interested in examining how new literacies are transforming the classrooms.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CI 67592 PRACTICUM IN MATHEMATICS EDUCATION INTERVENTION 3 Credit Hours**

(Repeatable for credit) Experience in providing leadership in designing intervention programs for schools, and designing curriculum and instruction for individual learners that experience difficulties in learning mathematics.

**Prerequisite:** Graduate standing.

**Schedule Type:** Practical Experience

**Contact Hours:** 9 other

**Grade Mode:** Standard Letter

**CI 67692 CLINICAL PRACTICUM IN CORRECTIVE READING 3 Credit Hours**

Application of previous courses includes supervised diagnostic/prescriptive reading work with school-age pupils and diagnostic/remedial reporting.

**Prerequisite:** CI 67319; and graduate standing; and special approval.

**Schedule Type:** Practical Experience

**Contact Hours:** 9 other

**Grade Mode:** Standard Letter

**CI 67791 SEMINAR IN MATHEMATICS EDUCATION 3 Credit Hours**

(Repeatable for credit) An in-depth exploration of the theoretical frameworks and methodologies used in current research in mathematics education.

**Prerequisite:** Graduate standing.

**Schedule Type:** Seminar

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**CI 70093 VARIABLE TITLE WORKSHOP IN CURRICULUM AND INSTRUCTION 1-5 Credit Hours**

(Slashed with CI 40093 and CI 50093) (Repeatable for credit) Variable topic workshop designed to respond to curriculum trends and issues and specialized needs.

**Prerequisite:** Doctoral standing; and special approval.

**Schedule Type:** Workshop

**Contact Hours:** 3 other

**Grade Mode:** Satisfactory/Unsatisfactory

**CI 71124 EDUCATING THE GOOD CITIZEN 3 Credit Hours**

(Slashed with CI 61124) Course explores the competing conceptions of citizenship education through an examination and critique of the diverse perspectives on the purposes and possibilities of citizenship education—including the contributions and influence of multicultural, international and theoretical perspectives on the meaning of educating citizens in a democracy—situating work, thinking and practice in the literature. As part of the process of reading, discussing and deliberating together, students articulate a rationale for citizenship education and develop ways to incorporate their vision for citizenship education into their work as teacher educators, practicing social studies teachers and/or community members.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Seminar

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**CI 71125 ISSUES AND TRENDS IN SOCIAL STUDIES EDUCATION 3 Credit Hours**

(Slashed with CI 61125) Provides an overview of historical trends and contemporary issues in social studies education.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CI 71126 RESEARCH IN SOCIAL STUDIES TEACHING AND LEARNING 3 Credit Hours**

(Slashed with CI 61126) Students examine, discuss and study research in the teaching and learning of social studies, as well as develop their own study of social studies teaching and learning.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CI 71127 TECHNOLOGY AND SOCIAL STUDIES 3 Credit Hours**

(Slashed with CI 61127) Course provides experiences with and study of various uses of technology in social studies teaching and learning. Students examine implications and effects of technology on student learning, teaching and society as a whole.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CI 71130 MULTICULTURAL EDUCATION: STRATEGIES 3 Credit Hours**

(Slashed with CI 61130) Course provides the strategies for teaching children to function effectively in a pluralistic society.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CI 71133 ISSUES AND TRENDS IN ELEMENTARY SCIENCE 3 Credit Hours**

(Slashed with CI 61133) New discoveries in science, including issues in society with direct science content. Emphasis is on practical and simple classroom applications.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CI 71134 RESEARCH TRENDS IN SCIENCE EDUCATION 3 Credit Hours**

(Slashed with CI 61134) Course in issues relating to research methods pertinent to science education.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CI 71140 CULTURE AND MULTICULTURALISM IN SCIENCE EDUCATION 3 Credit Hours**

(Slashed with CI 61140) Provides a general introduction to the impacts of multiculturalism and the social studies of science on science education. Implications for science educational curriculum theory, classroom practice and research are explored. Teaching topics examined include race and gender in science education, culture of science and science in a global context..

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CI 71141 NATURE OF SCIENCE IN SCIENCE EDUCATION 3 Credit Hours**

(Slashed with CI 61141) Course in issues relating to the nature of science as it impacts science education.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CI 75592 PRACTICUM IN ADAPTED PHYSICAL EDUCATION 3 Credit Hours**

(Repeatable for credit) Supervised and supervisory experiences in motor development for all ages and abilities, including conceptual bases for assessment and individualized task analysis.

**Prerequisite:** Doctoral standing; and special approval.

**Schedule Type:** Practical Experience

**Contact Hours:** 9 other

**Grade Mode:** Standard Letter-IP

**CI 77001 FUNDAMENTALS OF CURRICULUM 3 Credit Hours**

(Slashed with CI 67001) Orientation to the curriculum field. Theoretical examination of foundations, elements, design and development of school, college and non-school curricula.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter



**CI 77002 CURRICULUM LEADERSHIP 3 Credit Hours**

Course explores the theories and practices of curriculum leadership with reference to the current politics of education and the democratic ideals of information-age, pluralistic societies. Mandated accountability reform is critically compared to invited professional renewal. It is recommended that students complete CI 77001 or a compatible professional experience with fundamentals of curriculum work is before taking this course.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CI 77003 TEACHER EDUCATION 3 Credit Hours**

(Slashed with CI 67003) Course provides a broad overview of teacher education, including curriculum, organization, governance and policy.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CI 77004 PROFESSIONAL DEVELOPMENT IN TEACHING 3 Credit Hours**

(Slashed with CI 67004) Course provides a broad overview and conceptual framework for professional development; its historical, cultural, psychological and social contexts.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CI 77005 INTERCULTURAL DIMENSIONS OF TEACHING AND LEARNING 3 Credit Hours**

(Slashed with CI 67005) Course addresses teaching and learning in the intercultural K-16 context. Increasing intercultural interaction in schools and communities across the nation and around the world are prompting educational changes in terms of what is being taught and how it is being taught. Educators at all levels are increasingly being called upon to enhance their own intercultural competence and to consider how best to translate this to students in their charge.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CI 77010 CURRICULUM EVALUATION 3 Credit Hours**

(Slashed with CI 67010) Students learn to plan for and use a variety of techniques to gather information in systematic ways, across different phases of curriculum planning, development, implementation and evaluation to enhance decision-making processes. Students develop evaluation questions around a curriculum or program of their choice and then design a detailed evaluation plan.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CI 77092 ADVANCED PRACTICUM IN CURRICULUM AND INSTRUCTION 1-3 Credit Hours**

(Repeatable for credit) Supervised practicum in curriculum design, development, implementation and-or leadership. Planned with and directed by a graduate faculty member. Students are required to complete Bureau of Criminal Investigation and Identification (BCII) and Federal Bureau of Investigation (FBI) background checks and submit the results to authorized personnel at their assigned school-agency before the first day of the semester in which student teaching internship will take place.

**Prerequisite:** Doctoral standing; and special approval.

**Schedule Type:** Practical Experience

**Contact Hours:** 3-9 other

**Grade Mode:** Satisfactory/Unsatisfactory

**CI 77095 SPECIAL TOPICS IN CURRICULUM AND INSTRUCTION 1-5 Credit Hours**

(Slashed with CI 67095)(Repeatable for credit) Specialized offerings in response to emerging or selected program needs in curriculum design, development and implementation.

**Prerequisite:** Doctoral standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 1-5 lecture

**Grade Mode:** Standard Letter

**CI 77096 INDIVIDUAL INVESTIGATION IN CURRICULUM AND INSTRUCTION 1-5 Credit Hours**

(Repeatable for credit) Directed independent reading and/or research of special interest or need in student's program. Planned with and directed by a graduate faculty member.

**Prerequisite:** Doctoral standing; and special approval.

**Schedule Type:** Individual Investigation

**Contact Hours:** 1-5 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**CI 77105 IMPROVING CLASSROOM INSTRUCTION 3 Credit Hours**

(Slashed with CI 67105) Emphasizes motivation, varied materials and methods individual needs and sources of teacher help. Class members define goals and means.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CI 77107 CURRICULUM AND ORGANIZATION IN THE MIDDLE GRADES 3 Credit Hours**

(Slashed with CI 67107) Course enhances students' knowledge, skills and dispositions about curriculum history and organization of middle schools (grades 4-9) that is developmentally responsive to early adolescents, and promotes student achievement and equity. In addition, students are able to extend their knowledge, skills, techniques and professional dispositions as related to middle school students' experiences, as well as to differentiate curriculum and assessment for diverse learners.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter



**CI 77108 TEACHING AND LEARNING IN THE MIDDLE GRADES 3 Credit Hours**

(Slashed with CI 67108) Course emphasizes theories of learning and teaching and their application to teaching in middle childhood classrooms with a diversity of learners. Major class topics include lesson planing, teaching strategies, assessment, classroom management and effective classroom instructions. In a concurrent clinical field experience, teacher candidates apply teaching methods in intermediate-middle school classrooms.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CI 77224 TEACHING MATHEMATICS USING COMPUTERS AND CALCULATORS 3 Credit Hours**

(Slashed with CI 67224) Students develop knowledge of research and theories regarding teaching and learning mathematics via computing devices. Students develop proficiency in the use of computing devices and software that would be used in the teaching and learning of mathematics.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CI 77225 RESEARCH IN MATHEMATICS EDUCATION 3 Credit Hours**

(Slashed with CI 67225) Current research theory, methodology and results in mathematics education are investigated. Implications for instructional practice and curriculum design are examined.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CI 77226 IMPROVING MATHEMATICS INSTRUCTION IN MIDDLE CHILDHOOD 3 Credit Hours**

(Slashed with CI 67226) Instructional psychology and materials, including technology, for the effective teaching of mathematics in grades 3-8, with a theoretical emphasis on cognitive development.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CI 77227 ASSESSMENT IN MATHEMATICS EDUCATION 2 Credit Hours**

(Slashed with CI 67227) Investigation of standards and practices in mathematical assessments as recommended by current research and the National Council of Teachers of Mathematics.

**Prerequisite:** Two courses from the following: ADED 52267, CI 77224, CI 77226 and/or ECED 50147; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**CI 77228 INTERVENTION IN MATHEMATICS INSTRUCTION 2 Credit Hours**

(Slashed with CI 67228) Investigation of alternative methods of teaching mathematics to diverse learners who experience difficulties in learning mathematics.

**Prerequisite:** Two courses from the following: ADED 52267, CI 77224, CI 77226 and/or ECED 50147; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**CI 77240 INTRODUCTION TO ENVIRONMENTAL EDUCATION 3 Credit Hours**

(Slashed with CI 67240) Survey course emphasizing current debates in environmental issues, exploring the interconnectedness of ecology, understanding the impact of culture and education on notions of environmental concerns, and how these ideas can be investigated within classroom contexts. The course is designed for teachers, science educators and other concerned citizens of the earth.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CI 77292 PRACTICUM IN MATHEMATICAL ASSESSMENT 2 Credit Hours**

(Repeatable for credit) Practicum experience in designing and administering both formal and informal assessments.

**Prerequisite:** Two courses from the following: ADED 52267, CI 77224, CI 77226 and/or ECED 50147; and doctoral standing.

**Schedule Type:** Practical Experience

**Contact Hours:** 6 other

**Grade Mode:** Standard Letter

**CI 77310 THEORY AND PRACTICE IN THE TEACHING OF READING 3 Credit Hours**

(Slashed with CI 67310) Nature and development of reading, approaches to instruction, relation to learning and development.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CI 77312 TEACHING WRITING AS A PROCESS 3 Credit Hours**

(Slashed with CI 67312) Course emphasizes a process approach to writing instruction in grades K-12. Examines the steps and studies of composing, evaluation and components of a school-wide program.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CI 77314 SURVEY OF YOUNG ADULT LITERATURE 3 Credit Hours**

(Slashed with CI 67314) Presents a survey of selected types of literature appropriate for students in middle school, junior high and high school. Emphasis on evaluating, selecting and teaching.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CI 77315 SURVEY OF CHILDREN'S LITERATURE 3 Credit Hours**

(Slashed with CI 67315) Wide reading in children's literature, with particular application to school curriculum and field of reading.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CI 77319 DIAGNOSIS AND REMEDIATION IN READING 3 Credit Hours**

(Slashed with CI 67319) Theory and application of diagnostic principles and remedial reading approaches with school-age children. Cultural linguistic cognitive and affective factors in diagnosing and remediating reading problems.

**Prerequisite:** CI 77310; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CI 77330 READING IN CONTENT AREAS 3 Credit Hours**

(Slashed with CI 67330) Information and competencies for improving students' reading and studying in the content areas. Focus on intermediate grades through post-secondary years.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CI 77339 WRITING ASSESSMENT AND RESPONSE 3 Credit Hours**

(Slashed with CI 67339) Exploration of issues in writing assessment, theoretical base for effective formative response to student writing, and design and implementation of writing assessment measures.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CI 77351 PERSPECTIVES ON LITERACY RESEARCH 3 Credit Hours**

(Slashed with CI 67351) Inquiry into basic concepts and agendas for research through a study of historical, landmark and ground-breaking studies in literacy.

**Prerequisite:** Curriculum and Instruction major; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CI 77352 LITERACY COACHING 3 Credit Hours**

(Slashed with CI 67352) Focus on principles and strategies related to literacy coaching, within classrooms, schools and districts.

**Prerequisite:** CI 77310 and CI 77319 and CI 77330 and CI 77692 and MCED 50005; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CI 77353 MULTICULTURAL VOICES IN TEACHING CHILDREN'S AND YOUNG ADULT LITERATURE 3 Credit Hours**

(Slashed with CI 67353) Exploring diverse voices in children's and young adult literature in K-12 literacy classrooms to support culturally responsive teaching and learning and broaden student understandings of diversity.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CI 77392 ADVANCED PRACTICUM AND INTERNSHIP IN READING 1-10 Credit Hours**

(Repeatable for credit) Supervised program requiring application of theory and practices in reading in field settings. Planned with and directed by a graduate faculty member. Students are required to complete Bureau of Criminal Investigation and Identification (BCII) and Federal Bureau of Investigation (FBI) background checks and submit the results to authorized personnel at their assigned school/agency before the first day of the semester in which student teaching/internship will take place.

**Prerequisite:** Doctoral standing; and special approval.

**Schedule Type:** Practical Experience

**Contact Hours:** 3-30 other

**Grade Mode:** Standard Letter

**CI 77395 SPECIAL TOPICS IN READING 1-5 Credit Hours**

(Slashed with CI 67395)(Repeatable for credit) Specialized offerings in response to emerging or selected program needs in reading.

**Prerequisite:** Doctoral standing and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 1-5 lecture

**Grade Mode:** Standard Letter

**CI 77396 INDIVIDUAL INVESTIGATION IN READING AND LANGUAGE ARTS 1-5 Credit Hours**

(Repeatable for credit) Directed independent reading and/or research of special interest or need in student's program. Planned with and directed by a graduate faculty member.

**Prerequisite:** Doctoral standing; and special approval.

**Schedule Type:** Individual Investigation

**Contact Hours:** 1-5 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**CI 77592 PRACTICUM IN MATHEMATICS EDUCATION INTERVENTION 3 Credit Hours**

(Repeatable for credit) Experience in providing leadership in designing intervention programs for schools, and designing curriculum and instruction for individual learners that experience difficulties in learning mathematics.

**Prerequisite:** ADED 52267 and CI 77224 and CI 77226 and ECED 50147; and doctoral standing.

**Schedule Type:** Practical Experience

**Contact Hours:** 9 other

**Grade Mode:** Standard Letter

**CI 77692 CLINICAL PRACTICUM IN CORRECTIVE READING 3 Credit Hours**

Application of previous courses includes supervised diagnostic/prescriptive reading work with school-age pupils and diagnostic/remedial reporting.

**Prerequisite:** CI 77319; and doctoral standing; and special approval.

**Schedule Type:** Practical Experience

**Contact Hours:** 9 other

**Grade Mode:** Standard Letter

**CI 77791 SEMINAR IN MATHEMATICS EDUCATION 3 Credit Hours**

(Repeatable for credit) An in-depth exploration of the theoretical frameworks and methodologies used in current research in mathematics education.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Seminar

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**CI 80089 RESIDENCY I 3 Credit Hours**

Beginning doctoral seminar. Students explore the field of curriculum and instruction by reading and discussing foundational and current theories and research in the field. Students begin to identify and explore their research interests in the field.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Satisfactory/Unsatisfactory

**CI 80090 RESIDENCY II 3 Credit Hours**

Advanced doctoral seminar. Structured opportunity for students to synthesize research from the field, explore research options for their dissertation study, review literature for their research studies and discuss the development of their research.

**Prerequisite:** CI 80089; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Satisfactory/Unsatisfactory

**CI 80199 DISSERTATION I 15 Credit Hours**

(Repeatable for credit) Doctoral dissertation for which registration in at least two semesters is required, first of which will be semester in which dissertation work is begun and continuing until the completion of 30 hours.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Dissertation

**Contact Hours:** 15 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**CI 80299 DISSERTATION II 15 Credit Hours**

(Repeatable for credit) Continuing registration required of doctoral students who have completed the initial 30 hours of dissertation and continuing until all degree requirements are met.

**Prerequisite:** CI 80199; and doctoral standing.

**Schedule Type:** Dissertation

**Contact Hours:** 15 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**CI 85025 CONTEMPORARY ISSUES IN SPORT PEDAGOGY - AN INTERNATIONAL PERSPECTIVE 3 Credit Hours**

(Slashed with CI 65025) An international perspective on the investigation and study of current problems, issues and trends in sport pedagogy.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CI 85037 ADAPTED PHYSICAL EDUCATION 3 Credit Hours**

(Slashed with CI 65037) Course prepares physical education teachers to provide safe, appropriate and individualized accommodations to students with disabilities. All information presented is structured around research-based and cross-culturally appropriate practices in adapted physical education that have been implemented in physical education programs globally.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CI 85044 PEDAGOGICAL ANALYSIS OF PHYSICAL EDUCATION AND SPORT 3 Credit Hours**

(Slashed with CI 65044) An analysis of contemporary pedagogical models, practices and theories relevant to the multidimensional environments of physical education and sport.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CI 85055 CURRICULUM DEVELOPMENT IN SPORT PEDAGOGY 3 Credit Hours**

(Slashed with CI 65055) The analysis, development and design of curricular theory and practice in physical education and sport. An examination of current and future issues in curriculum implementation.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CI 87000 THEORY AND RESEARCH IN TEACHING 3 Credit Hours**

Focuses on critical study of contrasting approaches to the study of teaching processes. Surveys issues to give students a more critical perspective and to provoke thought about the relationship among theory research and practice.

**Prerequisite:** Doctoral standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CI 87001 THEORY AND RESEARCH IN CURRICULUM 3 Credit Hours**

Focuses on historic and contemporary examples of curriculum theory and their application in curriculum design, development and evaluation. Examines modes of inquiry used by curriculum researchers and contemporary curriculum issues.

**Prerequisite:** CI 77001; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CI 87002 FORMS OF INQUIRY IN CURRICULUM AND INSTRUCTION 3 Credit Hours**

Introduction to the history, context, philosophy and ethics of inquiry in curriculum and instruction. Emphasis on acquainting students with faculty lines of inquiry and research foci while preparing them for critical consumption of and significant contribution to inquiry in curriculum and instruction.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**CI 87091 SEMINAR IN CURRICULUM AND INSTRUCTION 1-4 Credit Hours**

(Slashed with CI 87091)(Repeatable for credit) A wide range of topics for advanced graduate inquiry. Normally, course provides a balance of theoretical study and creative application.

**Prerequisite:** Doctoral standing; and special approval.

**Schedule Type:** Seminar

**Contact Hours:** 1-4 other

**Grade Mode:** Standard Letter-IP

**CI 87098 RESEARCH IN CURRICULUM AND INSTRUCTION 1-15****Credit Hours**

(Repeatable for credit) Students pursue an individualized research project on a specialized topic with approval and under direction of instructor.

**Prerequisite:** Doctoral standing; and special approval.

**Schedule Type:** Research

**Contact Hours:** 1-15 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**CI 87340 RESEARCH IN READING 3 Credit Hours**

An introduction to a perspective on psychological processes underlying levels of reading from pre-reading to mature reading with implications for instruction.

**Prerequisite:** Doctoral standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CI 87342 SEMINAR IN READING AND LANGUAGE 3 Credit Hours**

Exploration of some of the issues, methods and findings on the relationship of reading and language. Examination of selected issues such as dialect bilingualism readability language based-strategies for reading instruction.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CI 87343 RESEARCH IN TEACHING OF WRITING 3 Credit Hours**

Issues and methodologies in research in the teaching of writing. Students review the literature and conduct research in a significant area of writing instruction.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CI 87391 SEMINAR IN READING 1-4 Credit Hours**

(Repeatable for credit) Variable topic seminar for advanced study of specialized areas and topics. Normally designed around research and theory applied to practice.

**Prerequisite:** Doctoral standing; and special approval.

**Schedule Type:** Seminar

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**CI 87398 RESEARCH IN READING AND LANGUAGE ARTS 1-15 Credit Hours**

(Repeatable for credit) Students pursue an individualized research project on a specialized topic with approval and under direction of instructor.

**Prerequisite:** Doctoral standing; and special approval.

**Schedule Type:** Research

**Contact Hours:** 1-15 other

**Grade Mode:** Standard Letter

**CI 87517 NEW LITERACIES IN PRACTICE 3 Credit Hours**

(Slashed with CI 67517) Developing technologies are changing the very definition of literacy. Designed to provide an overview of current (and past) theory and practices related to the growing line of inquiry known as new literacies. Participants of the class follow their own paths of inquiry related to the question: How is the definition of literacy changing? Participants engage in discussions of theoretical positions related to this question (from perspectives as new literacies, multi-literacies and arts-based knowing to name a few) as well as encounter the basics of creating a blog or wiki and editing video. Appropriate for any educator who is interested in examining how new literacies are transforming the classrooms.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CI 87791 DOCTORAL SEMINAR IN MATHEMATICS EDUCATION 1-3 Credit Hours**

(Repeatable for a maximum of 12 credit hours) Variable content seminar covering mathematics education. Students must seek faculty advisor recommendation prior to registration.

**Prerequisite:** Curriculum and Instruction major; and doctoral standing.

**Schedule Type:** Seminar

**Contact Hours:** 1-3 other

**Grade Mode:** Standard Letter

## Dance (DAN)

**DAN 17001 STUDIO MODERN I 1 Credit Hour**

(Repeatable for credit) Practice of basic modern dance technique. Open to all university students.

**Prerequisite:** None.

**Schedule Type:** Studio

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**DAN 17002 STUDIO MODERN DANCE II 1 Credit Hour**

(Repeatable for credit) Exploration of modern dance technique foundations and improvisation with emphasis on the movement and performing qualities of modern dance. Open to all university students.

**Prerequisite:** DAN 17001.

**Schedule Type:** Studio

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**DAN 17004 STUDIO JAZZ I 1 Credit Hour**

(Repeatable for credit) Practice of basic jazz techniques. Open to all university students.

**Prerequisite:** None.

**Schedule Type:** Studio

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**DAN 17005 STUDIO JAZZ II 1 Credit Hour**

(Repeatable for credit) Continuation of jazz dance technique foundations with emphasis on more advanced dance combinations. Open to all university students.

**Prerequisite:** DAN 17004.

**Schedule Type:** Studio

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**DAN 17007 STUDIO TAP I 1 Credit Hour**

(Repeatable for credit) Basic tap steps and combinations with varying sound intensities and rhythms. Open to all university students.

**Prerequisite:** None.

**Schedule Type:** Studio

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**DAN 17008 STUDIO TAP II 1 Credit Hour**

(Repeatable for credit) Continuation of tap dance technique foundations with emphasis on more advanced dance combinations.

**Prerequisite:** DAN 17007.

**Schedule Type:** Studio

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**DAN 17009 STUDIO TAP III 1 Credit Hour**

(Repeatable for a maximum of 8 credit hours) Advanced tap dance techniques with emphasis on clarity, speed and performance skills.

**Prerequisite:** DAN 17008.

**Schedule Type:** Studio

**Contact Hours:** 1 other

**Grade Mode:** Standard Letter

**DAN 17010 STUDIO BALLET I 1 Credit Hour**

(Repeatable for credit) Introduction to the foundations of ballet placement, vocabulary and movement for the beginner. Open to all university students.

**Prerequisite:** None.

**Schedule Type:** Studio

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**DAN 17011 STUDIO BALLET II 1 Credit Hour**

(Repeatable for credit) Continuation of ballet technique foundations with emphasis on more advanced dance combinations. Open to all university students.

**Prerequisite:** DAN 17010.

**Schedule Type:** Studio

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**DAN 17012 STUDIO BALLET III 1 Credit Hour**

(Repeatable for credit) This course presents high intermediate ballet techniques for the serious non-major dance student. Students will apply the principles of body alignment to an ever expanding movement vocabulary. Intricate combinations in adagio, petite and grand allegro and turns will be offered. Focus will be on the strength, flexibility and endurance required to master movements at this more advanced level.

**Prerequisite:** DAN 17011.

**Schedule Type:** Studio

**Contact Hours:** 2 other

**Grade Mode:** Standard Letter

**DAN 17013 STUDIO AFRICAN DANCE I 1 Credit Hour**

(Repeatable for credit) Designed to acquaint students with basic elements of African dance. Open to all university students.

**Prerequisite:** None.

**Schedule Type:** Studio

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**DAN 17016 STUDIO SWING DANCE I 1 Credit Hour**

(Repeatable for credit) Practice of basic swing dance movements with emphasis on social partnering skills. Open to all students.

**Prerequisite:** None.

**Schedule Type:** Studio

**Contact Hours:** 1 other

**Grade Mode:** Standard Letter

**DAN 17019 STUDIO HIP HOP I 1 Credit Hour**

(Repeatable for credit) Introduction to Hip Hop dance including warm-up techniques, movement across the floor and dance combinations. Open to all university students. No previous experience is necessary.

**Prerequisite:** None.

**Schedule Type:** Studio

**Contact Hours:** 2 other

**Grade Mode:** Standard Letter

**DAN 17020 STUDIO HIP HOP II 1 Credit Hour**

(Repeatable for credit) Hip Hop II is for students with previous experience in hip hop and will explore in greater depth fundamentals, history, technique and personal style.

**Prerequisite:** DAN 17019.

**Schedule Type:** Studio

**Contact Hours:** 2 other

**Grade Mode:** Standard Letter

**DAN 17049 FUNDAMENTALS OF BALLET AND MODERN DANCE 2 Credit Hours**

(Repeatable for credit) Introduction to intensive exploration of ballet and modern dance technique for nonmajors with special emphasis on alignment, body awareness and movement vocabulary.

**Prerequisite:** DAN 17001 and 17010.

**Schedule Type:** Studio

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**DAN 17050 INTRODUCTION TO DANCE 1 Credit Hour**

Overview of modern dance as a performing art. Specifically focusing on preparation, basic knowledge and career choices.

**Prerequisite:** Dance major; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 1 lecture

**Grade Mode:** Standard Letter

**DAN 17051 MODERN DANCE TECHNIQUE I-A 3 Credit Hours**

(Repeatable for credit) Development of skill acquisition in basic technique, understanding and appreciation for the creative nature of dance through exposure to improvisational experiences.

**Prerequisite:** Dance major; and special approval.

**Schedule Type:** Studio

**Contact Hours:** 9 other

**Grade Mode:** Standard Letter

**DAN 17052 BALLET I-A 2 Credit Hours**

(Repeatable for credit) Ballet techniques: pre-barre; beginning barre and beginning center work.

**Prerequisite:** Dance major; and special approval.

**Schedule Type:** Studio

**Contact Hours:** 6 other

**Grade Mode:** Standard Letter



**DAN 17053 PRINCIPLES OF DANCE MECHANICS I 2 Credit Hours**

The study and application of alignment and basic movement principles to dance techniques.

**Prerequisite:** Dance major; and special approval.

**Corequisite:** DAN 17051 or 17052.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**Attributes:** TAG Arts and Humanities

**DAN 17055 STUDIO MEN'S BALLET 1 Credit Hour**

(Repeatable for credit) Men's Ballet allows male-identifying students to receive training to enhance their ballet skills. Goals include improving overall placement and ballet technique while focusing on style and movements particular to the male danseur.

**Prerequisite:** Special approval.

**Schedule Type:** Studio

**Contact Hours:** 2 other

**Grade Mode:** Standard Letter

**DAN 17080 MUSICAL THEATRE RUDIMENTS OF JAZZ AND TAP 1 Credit Hour**

Rudiments of Jazz and Tap will lay the foundation of beginning musical theatre Jazz and Tap. The beginning student will learn proper vocabulary and proper alignment for both mediums of dance.

**Prerequisite:** Special approval.

**Schedule Type:** Studio

**Contact Hours:** 2 other

**Grade Mode:** Standard Letter

**DAN 17100 STUDIO POINTE I 1 Credit Hour**

(Repeatable for credit) Studio Pointe I allows students with previous experience dancing en pointe to work at the beginning to low intermediate level. The class explores ballet vocabulary and repertory at the barre, center, and travelling across the space, specifically in pointe shoes.

**Prerequisite:** Special approval.

**Schedule Type:** Studio

**Contact Hours:** 2 other

**Grade Mode:** Standard Letter

**DAN 17150 STUDIO POINTE II 1 Credit Hour**

(Repeatable for credit) Studio Pointe II allows students with previous experience dancing en pointe to continue to work at the intermediate to advanced level. The class explores ballet vocabulary and repertory at the barre, center, and travelling across the space, specifically in pointe shoes, building on concepts and vocabulary learned in Studio Pointe I; although experienced students may be permitted directly in to Studio Pointe II with the instructor's permission. Emphasis is placed on execution, development thereof, application of corrections, and performance expression.

**Prerequisite:** Special approval.

**Schedule Type:** Studio

**Contact Hours:** 2 other

**Grade Mode:** Standard Letter

**DAN 17151 MODERN DANCE TECHNIQUE I-B 3 Credit Hours**

(Repeatable for credit) Continued exploration of basic modern dance technique and improvisation begun in DAN 17051. Continued study of dance innovators and their historical significance.

**Prerequisite:** DAN 17051; and dance major; and special approval.

**Schedule Type:** Studio

**Contact Hours:** 9 other

**Grade Mode:** Standard Letter

**DAN 17152 BALLET I-B 2 Credit Hours**

(Repeatable for credit) Continuation of ballet techniques studied in DAN 17052.

**Prerequisite:** DAN 17052; and dance major; and special approval.

**Schedule Type:** Studio

**Contact Hours:** 6 other

**Grade Mode:** Standard Letter

**DAN 27070 JAZZ STYLES I 2 Credit Hours**

(Repeatable for credit) Development of basic jazz dance skills for dance majors and minors.

**Prerequisite:** Special approval.

**Schedule Type:** Studio

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**DAN 27071 MODERN DANCE TECHNIQUE II-A 3 Credit Hours**

(Repeatable for credit) Intermediate modern dance styles emphasizing complex movement phrases.

**Prerequisite:** DAN 17051; and special approval.

**Schedule Type:** Studio

**Contact Hours:** 9 other

**Grade Mode:** Standard Letter

**DAN 27072 BALLET II-A 2 Credit Hours**

(Repeatable for credit) Intermediate ballet technique.

**Prerequisite:** DAN 17152; and dance major; and special approval.

**Schedule Type:** Studio

**Contact Hours:** 6 other

**Grade Mode:** Standard Letter

**DAN 27074 DANCE COMPOSITION I 3 Credit Hours**

(Repeatable for a maximum of 6 credit hours) Movement exploration and improvisation including developing the body as an instrument of expression.

**Prerequisite:** Special approval.

**Schedule Type:** Studio

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**Attributes:** TAG Arts and Humanities

**DAN 27076 DANCE AS AN ART FORM (DIVG) (KFA) 3 Credit Hours**

Survey of the various types, styles and functions of dance with emphasis on understanding dance as an art form and an expression of culture.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Diversity Global, Kent Core Fine Arts, Transfer Module Fine Arts

**DAN 27080 MUSICAL THEATRE JAZZ AND TAP I 2 Credit Hours**

This course serves the advanced beginner to intermediate level musical theatre dance student. Students will build on the foundation of Rudiments of Jazz and Tap. They will learn more difficult concepts and steps and work to apply those concepts and steps in their dancing.

**Prerequisite:** DAN 17080; and special approval.

**Schedule Type:** Studio

**Contact Hours:** 4 other

**Grade Mode:** Standard Letter

**DAN 27170 JAZZ STYLES II 2 Credit Hours**

(Repeatable for credit) Continued development of basic jazz dance skills.

**Prerequisite:** DAN 27070; and special approval.

**Schedule Type:** Studio

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**DAN 27171 MODERN DANCE TECHNIQUE II-B 3 Credit Hours**

(Repeatable for credit) Continuation of intermediate level dance styles with emphasis on complex movement phrases.

**Prerequisite:** DAN 27071; and special approval.

**Schedule Type:** Studio

**Contact Hours:** 9 other

**Grade Mode:** Standard Letter

**DAN 27172 BALLET II-B 2 Credit Hours**

(Repeatable for credit) Continuation of intermediate ballet technique.

**Prerequisite:** DAN 27072; and special approval.

**Schedule Type:** Studio

**Contact Hours:** 6 other

**Grade Mode:** Standard Letter

**DAN 28010 DANCE ACCOMPANIMENT LABORATORY I 2 Credit Hours**

(Course is repeatable for a maximum of 4 credit hours) Students will be introduced to the techniques and strategies of modern dance and ballet technique class accompaniment. Emphasis is placed on supervised student accompaniment and acquiring familiarity with dance class protocols, procedures, and the accompanist-instructor relationship. Course meets concurrently with one of the professional-level modern dance or ballet technique classes offered by the Dance Division.

**Prerequisite:** None.

**Schedule Type:** Laboratory

**Contact Hours:** 4 lab

**Grade Mode:** Standard Letter

**DAN 37035 DANCE COMPOSITION II 2 Credit Hours**

Basic principles of dance composition with attention to design, thematic material, structure, form and small groups.

**Prerequisite:** DAN 27074; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**DAN 37053 PRINCIPLES OF DANCE MECHANICS II 2 Credit Hours**

(Repeatable for a maximum of 16 credit hours) Continuation of DAN 17053.

**Prerequisite:** DAN 17053; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**DAN 37057 DANCE FOR CHILDREN 3 Credit Hours**

(Repeatable for a maximum of 6 credit hours) The theory and practice of children's dance in the pre-school, elementary, middle schools, private studio and recreation settings.

**Prerequisite:** Dance or Early Childhood Education major.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**DAN 37058 METHODS AND MATERIALS OF DANCE 3 Credit Hours**

(Repeatable for a maximum of 6 credit hours) Theory and practice of teaching dance technique from middle school to adults with an emphasis on modern dance.

**Prerequisite:** DAN 37057; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**DAN 37067 BALLET III-A 2 Credit Hours**

(Repeatable for a maximum of 8 credit hours) Advanced ballet technique.

**Prerequisite:** DAN 27172; and special approval.

**Schedule Type:** Studio

**Contact Hours:** 6 other

**Grade Mode:** Standard Letter

**DAN 37068 MODERN DANCE TECHNIQUE III-A 3 Credit Hours**

(Repeatable for a maximum of 15 credit hours) Advanced modern dance technique.

**Prerequisite:** DAN 27171; and special approval.

**Schedule Type:** Studio

**Contact Hours:** 9 other

**Grade Mode:** Standard Letter

**DAN 37070 DANCE COMPOSITION III 2 Credit Hours**

(Repeatable for a maximum of 8 credit hours) Development of individual movement style through improvisational studies and movement manipulation exercises of structure and form resulting in a substantial solo modern dance work.

**Prerequisite:** DAN 37035; and special approval.

**Schedule Type:** Studio

**Contact Hours:** 2 other

**Grade Mode:** Standard Letter

**DAN 37071 MOVEMENT NOTATION 2 Credit Hours**

Analyzing and recording human movement. The common aspects of movement in all forms of sports, dance and aquatics. Analysis and recording with the labanotation system.

**Prerequisite:** Dance major; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**DAN 37072 DANCE AND TECHNOLOGY 2 Credit Hours**

This course introduces students to new technologies as resources for creative expression, performance and documentation of dance. Students will learn a brief history of screen dance, techniques for archiving dance, shooting and editing video with dance as the subject and approaches to interactive performance. Students will gain a basic understanding of how new media interacts with current practice in dance creation, production, education and research.

**Prerequisite:** Dance major or minor; and special approval.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**DAN 37080 MUSICAL THEATRE JAZZ AND TAP II 2 Credit Hours**

This class is a continuation of the building of jazz and tap skills, as the steps increase in difficulty. Course will incorporate sequencing of transition steps which smoothly connect one set of steps to another.

**Prerequisite:** DAN 27080; and special approval.

**Schedule Type:** Studio

**Contact Hours:** 4 other

**Grade Mode:** Standard Letter

**DAN 37081 MUSICAL THEATRE JAZZ AND TAP III 2 Credit Hours**  
Continuation of Jazz and Tap techniques building on skills suitable for and required in professional audition circumstances. Course will assist advanced student to fine tune jazz and tap skills for auditions.

**Prerequisite:** DAN 37080; and special approval.

**Schedule Type:** Studio

**Contact Hours:** 4 other

**Grade Mode:** Standard Letter

**DAN 37167 BALLET III-B 2 Credit Hours**  
(Repeatable for credit) Continuation of advanced ballet technique.

**Prerequisite:** DAN 37067; and special approval.

**Schedule Type:** Studio

**Contact Hours:** 6 other

**Grade Mode:** Standard Letter

**DAN 37168 MODERN DANCE TECHNIQUE III-B 3 Credit Hours**  
(Repeatable for credit) Continuation of advanced modern dance technique.

**Prerequisite:** DAN 37068; and special approval.

**Schedule Type:** Studio

**Contact Hours:** 9 other

**Grade Mode:** Standard Letter

**DAN 37170 DANCE COMPOSITION IV 1 Credit Hour**  
Exploration of advanced composition skills in preparation for the B.F.A. senior choreography project and future choreographic endeavors.

**Prerequisite:** DAN 37070; and special approval.

**Schedule Type:** Studio

**Contact Hours:** 1 other

**Grade Mode:** Standard Letter

**DAN 37192 DANCE PRACTICUM (ELR) 1 Credit Hour**  
(Repeatable for a total of 4 hours) practical experience in co-curriculum dance activities under faculty supervision.

**Prerequisite:** Special approval.

**Schedule Type:** Practical Experience, Studio

**Contact Hours:** 3 other

**Grade Mode:** Satisfactory/Unsatisfactory

**Attributes:** Experiential Learning Requirement

**DAN 37272 KENT DANCE ENSEMBLE 2 Credit Hours**  
(Repeatable for credit) Participation in rehearsal, preparation and performance of public dance concerts in an established dance ensemble.

**Prerequisite:** Special approval.

**Schedule Type:** Studio

**Contact Hours:** 6 other

**Grade Mode:** Standard Letter

**DAN 37310 MUSIC FOR DANCERS 3 Credit Hours**  
Students will build theoretical, analytical and performance skills in music specific to the needs of dancers, dance teachers and choreographers.

**Prerequisite:** Special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**DAN 38001 APPLIED SKILLS FOR DANCE ACCOMPANIMENT 2 Credit Hours**

(Course is repeatable for a maximum of 8 credit hours) Private applied music instruction in performance skills necessary to accompany a modern dance or ballet class. Emphasis is placed on hand drum and frame drum technique, keyboard repertoire, and keyboard improvisation skills.

**Prerequisite:** DAN 28010.

**Schedule Type:** Private Lesson

**Contact Hours:** 1.5 other

**Grade Mode:** Standard Letter

**DAN 38010 DANCE ACCOMPANIMENT LABORATORY II 1-4 Credit Hours**

(Course is repeatable) Students will receive intermediate and advanced instruction in modern dance or ballet technique class accompaniment. Emphasis will be placed on continued development of accompaniment strategies for specific styles of movement and increasing the students' range of accompaniment repertoire and improvisational vocabulary.

**Prerequisite:** Two semesters of DAN 28010; and special approval.

**Schedule Type:** Laboratory

**Contact Hours:** 2-8 other

**Grade Mode:** Standard Letter

**DAN 47055 BALLET IV-A 2 Credit Hours**  
(Repeatable for credit) A continuation of DAN 37167 with increasing clarity and control of movements.

**Prerequisite:** DAN 37167.

**Schedule Type:** Studio

**Contact Hours:** 6 other

**Grade Mode:** Standard Letter

**DAN 47060 PROFESSIONAL ASPECTS IN DANCE 2 Credit Hours**  
Development of pragmatic skills for entrance into professional dance careers. Emphasis on resume writing, preparation for auditions and economic survival.

**Prerequisite:** DAN 27170; and special approval.

**Schedule Type:** Studio

**Contact Hours:** 2 other

**Grade Mode:** Standard Letter

**DAN 47063 DANCE HISTORY I 3 Credit Hours**  
History of dance from antiquity to 1900.

**Prerequisite:** Dance major; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** TAG Arts and Humanities

**DAN 47070 JAZZ STYLES III 2 Credit Hours**  
(Repeatable for credit) Jazz style for students with advanced dance technique.

**Prerequisite:** DAN 27170; and special approval.

**Schedule Type:** Studio

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**DAN 47080 MUSICAL THEATRE DANCE STYLES I 2 Credit Hours**

Advanced Jazz and Tap class for Musical Theatre students to develop the stylization skills of musical theatre dance and performance. Students will work on stylization of movement by learning three different production numbers. One of a vernacular style, one classic style, and one involving partnering.

**Prerequisite:** DAN 37081; and special approval.

**Schedule Type:** Studio

**Contact Hours:** 4 other

**Grade Mode:** Standard Letter

**DAN 47081 MUSICAL THEATRE DANCE STYLES II 2 Credit Hours**

Students will work to prepare a professional dance reel (a video record of their skills and accomplishments). The student's skills will include various media (jazz, tap, ballet, gymnastics, partnering, etc.) and styles (Charleston, Swing, Waltz, dances of the 50s, 60s, 70s, etc.). Students will be ready to submit dance reels, which they will prepare in the course of the semester. Provisions will be made for those students who do not desire or require a dance reel.

**Prerequisite:** DAN 47080; and special approval.

**Schedule Type:** Studio

**Contact Hours:** 4 other

**Grade Mode:** Standard Letter

**DAN 47095 SPECIAL TOPICS IN DANCE 1-3 Credit Hours**

(Repeatable for a total of 24 hours) offered when resources permit a topic different from existing courses. Topic to be announced when scheduled.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 1-3 lecture

**Grade Mode:** Standard Letter

**DAN 47155 BALLET IV-B 2 Credit Hours**

(Repeatable for credit) A continuation of DAN 47055 with increasing clarity and dynamic expression.

**Prerequisite:** DAN 47055; and special approval.

**Schedule Type:** Studio

**Contact Hours:** 6 other

**Grade Mode:** Standard Letter

**DAN 47156 DANCE PRODUCTION 3 Credit Hours**

Study of elements involved in planning and implementing a concert. Experiential work in technical and management components.

**Prerequisite:** Dance major; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**DAN 47163 DANCE HISTORY II (WIC) 3 Credit Hours**

History of the development of concert and theatrical dance forms from 1900 to present day.

**Prerequisite:** DAN 47063; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Writing Intensive Course

**DAN 47170 JAZZ STYLES IV 2 Credit Hours**

(Repeatable for credit) Continuation of DAN 47070.

**Prerequisite:** DAN 47070; and special approval.

**Schedule Type:** Studio

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**DAN 47174 SENIOR CHOREOGRAPHY PROJECT (ELR) 1 Credit Hour**

Creation of a modern dance work to be performed with full production values in an approved setting.

**Prerequisite:** DAN 37170; and special approval.

**Schedule Type:** Studio

**Contact Hours:** 1 other

**Grade Mode:** Standard Letter-IP

**Attributes:** Experiential Learning Requirement

**DAN 47175 CAPSTONE PROJECT (ELR) 1-3 Credit Hours**

The capstone project represents a culminating event for the student. Capstone projects can be taken in the junior or senior year and are identified in consultation with a faculty advisor. Honor students may combine the capstone project with an Honors thesis.

**Prerequisite:** Junior standing; and special approval.

**Schedule Type:** Senior Project/Honors Thesis

**Contact Hours:** 1-3 other

**Grade Mode:** Satisfactory/Unsatisfactory

**Attributes:** Experiential Learning Requirement

**DAN 47192 INTERNSHIP IN DANCE (ELR) 1 Credit Hour**

(Repeatable for credit) Supervised dance apprenticeship in an approved educational setting.

**Prerequisite:** Dance major; and special approval.

**Schedule Type:** Practical Experience

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**Attributes:** Experiential Learning Requirement

**DAN 47196 INDIVIDUAL INVESTIGATION IN DANCE 1-3 Credit Hours**

(Repeatable for credit) Individual projects for dance majors.

**Prerequisite:** Junior standing; and special approval.

**Schedule Type:** Individual Investigation

**Contact Hours:** 1-3 other

**Grade Mode:** Standard Letter-IP

**DAN 47525 STUDENT TEACHING IN DANCE (ELR) 9 Credit Hours**

This experience provides for a full semester of student teaching in the broadest range of multi-age school settings.

**Prerequisite:** DAN 47192; Dance major and admission to student teaching and Official valid certification of Child Safety Training, approved Basic Life Support and ALICE Training must be presented to the campus office of clinical experience or designated faculty/staff at Regional campuses as prerequisite for student teaching; and special approval.

**Schedule Type:** Practical Experience

**Contact Hours:** 9 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**Attributes:** Experiential Learning Requirement

## Design Innovation (DI)

**DI 10010 SURVEY OF DESIGN INNOVATION NODES 3 Credit Hours**

Develop awareness and actively utilize the wide array of shared-resource laboratories and environments across Kent State University's eight campus system that are connected as part of the Design Innovation (DI) Ecosystem. Explore the context of maker-communities, emerging technologies and social innovation resources while working in collaborative cross-disciplinary teams to tackle projects that intentionally connect the capabilities of multiple DI Nodes.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**DI 20020 BE SMARTER THAN YOUR SMARTPHONE 3 Credit Hours**

This course uses the development of the smart phone to illustrate the multi-disciplinary nature of design and innovation. It provides an understanding of the technologies that make the smartphone possible. Specifically, the course covers the role of research and design in product development, the changed in patterns and nature of our communications through smartphones, and the implications for businesses, markets and society. The aim of this course is to introduce the multidisciplinary nature of innovation using the smartphone as an example. It presents the complexities, challenges, and opportunities that the smartphone has created.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**DI 20100 INTRODUCTION TO DESIGN INNOVATION 3 Credit Hours**

This course blends analytical skills, intuition and creative thinking to develop practical solutions to real world problems. Gain a high-level understanding of the design process through team-based projects tackling challenges. Design thinking, methods and strategies offer novel ways to discover market opportunities, experiment to validate concepts and mitigate risk, and deliver value to all. This will be a reflective lecture and small project-based course that addresses the programmatic, technical, business, social and human factors of design in a way that leads to innovation(s) in the development of integrated solutions. Learn how to engage with end users, effectively frame problems, identify potential solutions, build prototypes to test assumptions and learn what works (and doesn't). Then dive into a range of ways large and small to bring design innovation into your daily life.

**Prerequisite:** None.

**Schedule Type:** Laboratory, Lecture, Combined Lecture and Lab

**Contact Hours:** 2 lecture, 3 lab

**Grade Mode:** Standard Letter

**DI 30100 CHALLENGE-BASED INNOVATION 3 Credit Hours**

(Repeatable for credit) Challenge-Based Innovation (CBI) is a project and problem-based learning course, where multidisciplinary student teams and their instructors collaborate with faculty researchers, community and industry partners to discover novel solutions for the future of humankind. The projects are an elaborate mixture, proposed by cross-disciplinary faculty teams and derived from using research to tackle messy or complex problems to meet societal, human-driven needs. The multidisciplinary student teams act as catalysts in creating novel solutions to pressing problems.

**Prerequisite:** DI 20100.

**Schedule Type:** Laboratory, Lecture, Combined Lecture and Lab

**Contact Hours:** 2 lecture, 3 lab

**Grade Mode:** Standard Letter

**DI 49095 SPECIAL TOPICS IN DESIGN INNOVATION STUDIO 1-6 Credit Hours**

(Repeatable for credit) Analysis and cross-disciplinary problem-solving of significant and current issues in design innovation not covered in existing design innovation courses. This studio course is offered when opportunities and resources permit; the topic is announced when the course is scheduled.

**Prerequisite:** DI 20100.

**Schedule Type:** Studio

**Contact Hours:** 2-6 other

**Grade Mode:** Standard Letter

**DI 49900 DESIGN INNOVATION WORKSHOP 1-4 Credit Hours**

This course supports brief, intensive and interactive activities that address a narrowly defined range of problems in which the content is practical and concentrates on the acquisition of specific information and skills related to practices in design innovation. The variable credit format allows for intensive challenges that might occur in short periods, and that it might be focused on a single problem.

**Prerequisite:** DI 20100.

**Schedule Type:** Workshop

**Contact Hours:** 1-4 other

**Grade Mode:** Satisfactory/Unsatisfactory

**DI 49995 SPECIAL TOPICS IN DESIGN INNOVATION 1-3 Credit Hours**

(Repeatable for credit) Analysis and cross-disciplinary problem-solving of significant and current issues in design innovation not covered in existing design innovation courses. This course is offered when opportunities and resources permit; the topic is announced when the course is scheduled.

**Prerequisite:** DI 20100.

**Schedule Type:** Lecture

**Contact Hours:** 1-3 lecture

**Grade Mode:** Standard Letter

**DI 49999 DESIGN INNOVATION GRAND CHALLENGES STUDIO PROJECT (ELR) 3 Credit Hours**

A cross disciplinary project-based capstone course that collaboratively focuses on a single grand challenge. Challenges range from those identified by Grand Challenges.org, "solving global health and development problems for those most in need" to one of the "Grand Challenges for Engineering", to one from the list regularly updated by the National Science Foundation, to a pressing challenge identified by the faculty. Taught by a multidisciplinary team of primary instructors with input from industry leaders with complementary expertise, the collaborative effort of students, faculty members, industry partners and/or community leaders, focuses on developing robust multi-perspective, actionable solutions considering multiple criteria including but not limited to technical, socio-cultural and economic dimensions. Outcomes range from early designs, to physical prototypes or policy solutions with an understanding of how to take them to a next phase. Travel component may be included.

**Prerequisite:** DI 20100 and DI 30100.

**Schedule Type:** Project or Capstone

**Contact Hours:** 6 other

**Grade Mode:** Standard Letter

**Attributes:** Experiential Learning Requirement

## Early Childhood Education (ECED)

**ECED 10120 INTRODUCTION TO EARLY CHILDHOOD SERVICES 2 Credit Hours**

Orientation to the field of early childhood education: historical and present day programs and services for young children 0-8.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter



**ECED 20101 UNDERSTANDING YOUNG CHILDREN'S DEVELOPMENT**  
**3 Credit Hours**

Growth and development of young children from birth to age 11 as it occurs along both typical and atypical pathways. There are field-based assignments in this course.

**Prerequisite:** Minimum C grade in ECED 10120; and special approval.

**Pre/corequisite:** Minimum C grade in SPED 23000; and admission to advanced study.

**Corequisite:** ECED 20102, ECED 20103, ECED 20104 and ECED 20192 (Block I).

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ECED 20102 SOCIAL STUDIES AND THE ARTS IN PRESCHOOL** 3  
**Credit Hours**

Young children's development in the expressive arts and social studies; implications for development of the environment, integrated curriculum and teaching methods for preschool children. There are field-based assignments in this course.

**Prerequisite:** Admission to advanced study.

**Corequisite:** ECED 20101, ECED 20103, ECED 20104 and ECED 20192 (Block I).

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ECED 20103 SEMINAR: PRESCHOOL TEACHING AND LEARNING** 3  
**Credit Hours**

(Equivalent to ECET 22000) Integrated field-based seminar that gives students a foundation for the ways children learn during preschool years. Field-based assignments are included. Students are required to complete Bureau of Criminal Investigation and Identification (BCII) and Federal Bureau of Investigation (FBI) background checks and submit the results to authorized personnel at their assigned school or agency before the first day of the semester.

**Prerequisite:** Admission to advanced standing.

**Corequisite:** ECED 20101, ECED 20102, ECED 20104 and ECED 20192 (Block I).

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ECED 20104 PARTNERING WITH FAMILIES FOR EFFECTIVE GUIDANCE**  
**3 Credit Hours**

(Equivalent to ECET 21005) Appropriate guidance strategies set the foundation for positive experiences our youngest children in school; patterns learned early often set a foundation for primary school entry. This course addresses the concerns of guidance, family partnerships, and inclusive schooling with preschool children and their educators. It takes a proactive stance, helping teachers develop a constructive guidance approach. There are field-based assignments in this course.

**Prerequisite:** Admission to advanced study.

**Corequisite:** ECED 20101, ECED 20102, ECED 20103 and ECED 20192 (Block I).

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ECED 20163 UNDERSTANDING YOUNG CHILDREN: TYPICAL AND ATYPICAL PATHWAYS** 3  
**Credit Hours**

Growth and development of young children from birth to age eight as it occurs along both typical and atypical pathways. Pre/Corequisite: SPED 23000; and admission to advanced study.

**Prerequisite:** ECED 10120; and special approval.

**Corequisite:** ECED 30134 and 30164 and 40145.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** TAG Education

**ECED 20192 CLINICAL EXPERIENCE IN PRESCHOOL (ELR)** 3  
**Credit Hours**

(Equivalent to ECET 22192) Internship in preschool settings. Official valid certification of Child Safety Training, approved Basic Life Support and A.L.I.C.E. Training must be presented to the campus office of clinical experience or designated faculty-staff at Regional campuses as prerequisite for student teaching.

**Prerequisite:** Admission to advanced study.

**Corequisite:** ECED 20101, ECED 20102, ECED 20103 and ECED 20104 (Block I).

**Schedule Type:** Practical Experience

**Contact Hours:** 15 other

**Grade Mode:** Satisfactory/Unsatisfactory

**Attributes:** Experiential Learning Requirement

**ECED 22222 INTEGRATED PRIMARY CURRICULUM** 3  
**Credit Hours**

This course extends student's knowledge of the application of integrated curriculum through the study and critique of pedagogical and curricular approaches in the early primary years classroom. This course has a field component attached to it. Students are required to complete Bureau of Criminal Investigation and Identification (BCII) and Federal Bureau of Investigation (FBI) background checks and submit the results to authorized personnel at their assigned school-agency before the first day of the semester in which student teaching internship will take place.

**Prerequisite:** Minimum C grade in the following courses ECED 20101, ECED 20102, ECED 20103, ECED 20104 and ECED 20192 (Block I); and admission to advanced study.

**Corequisite:** ECED 30201, ECED 30202 and ECED 40203 (Block II).

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ECED 30123 LANGUAGE AND LITERACY FOR THE PRESCHOOL CHILD**  
**3 Credit Hours**

(Equivalent to ECET 22130) An examination of the process of language and literacy development in preschool children. The course focuses on how preschool teachers integrate knowledge of development with early school and family literacy learning.

**Prerequisite:** Admission to advanced study.

**Corequisite:** ECED 30142 and ECED 30147 and ECED 40165 and ECED 40192 (ECED Block II).

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ECED 30134 INTEGRATED EXPRESSIVE ARTS AND SOCIAL STUDIES IN PRESCHOOL 3 Credit Hours**

Young children's development in the expressive arts and social studies; implications for development of the environment, integrated curriculum and teaching methods for preschool children.

**Prerequisite:** Admission to advanced study.

**Corequisite:** ECED 20163 and ECED 30164 and ECED 40145 (ECED Block I).

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ECED 30142 PARTNERSHIPS AND GUIDANCE FOR PRESCHOOL CHILDREN 3 Credit Hours**

(Equivalent to ECET 21005) Appropriate guidance strategies set the foundation for positive experiences our youngest children in school; patterns learned early often set a foundation for primary school entry. This course addresses the concerns of guidance family partnerships and inclusive schooling with preschool children and their educators. It takes a proactive stance, helping teachers develop a constructive guidance approach.

**Prerequisite:** Admission to advanced study.

**Corequisite:** ECED 30123 and ECED 30147 and ECED 40165 and ECED 40192 (ECED Block II).

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ECED 30144 INTEGRATED CURRICULUM FOR SOCIAL STUDIES 3 Credit Hours**

Objectives, resources, curriculum development, methods of teaching social studies and expressive arts at kindergarten and primary levels; emphasis on developing integrated social studies curriculum; infusing multiple forms of expressive arts into integrated curriculum and assessment; and engaging professional collaboration with teachers in the field.

**Prerequisite:** ECED 30134; and admission to advanced study.

**Corequisite:** ECED 40142 and ECED 40105 and ECED 40107 and ECED 40123.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ECED 30147 EARLY EXPERIENCES IN MATHEMATICS AND SCIENCE 3 Credit Hours**

Instructional psychology and materials for effective teaching of mathematics and science in preschool settings with a theoretical emphasis on cognitive development.

**Prerequisite:** MATH 14001 and 14002 with a minimum of a C grade; and admission to advanced study.

**Corequisite:** ECED 30123 and ECED 30142 and ECED 40165 and ECED 40192.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ECED 30164 PRESCHOOL EDUCATION 3 Credit Hours**

Integrated curriculum utilizing principles of developmentally appropriate practice in settings for children under five. Field experience two mornings a week. Students are required to complete Bureau of Criminal Investigation and Identification (BCII) and Federal Bureau of Investigation (FBI) background checks and submit the results to authorized personnel at their assigned school or agency before the first day of the semester.

**Prerequisite:** Admission to advanced standing.

**Corequisite:** ECED 20163 and ECED 30134 and ECED 40145 (ECED Block I).

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ECED 30201 LANGUAGES AND LITERACIES 3 Credit Hours**

(Slashed with ECET 22130) An examination of the process of languages and literacies development. This course focuses on teaching literacy to primary age students.

**Prerequisite:** Minimum C grade in the following courses, ECED 20101, ECED 20102, ECED 20103, ECED 20104 and ECED 20192 (Block I); and admission to advanced study.

**Corequisite:** ECED 22222, ECED 30202 and ECED 40203 (Block II).

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ECED 30202 MATHEMATICS AND SCIENCE IN THE EARLY YEARS 3 Credit Hours**

Instructional psychology and materials for effective teaching of mathematics and science in preschool settings with a theoretical emphasis on cognitive development. There are field-based projects in this course.

**Prerequisite:** ECED 20101, ECED 20102, ECED 20103, ECED 20104 and ECED 20192 (Block I) all with a minimum C grade; and admission to advanced study.

**Corequisite:** ECED 22222, ECED 30201 and ECED 40203 (Block II).

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ECED 40092 INTEGRATED FIELD EXPERIENCES (ELR) 3 Credit Hours**

(Repeatable for credit) Participation in experiences offering opportunity to plan and teach reading, language arts, integrated content units and observe students in early childhood classrooms. Students are required to complete Bureau of Criminal Investigation and Identification (BCII) and Federal Bureau of Investigation (FBI) background checks and submit the results to authorized personnel at their assigned school agency before the first day of the semester in which student teaching internship will take place.

**Prerequisite:** Admission to advanced study.

**Corequisite:** ECED 40114 and ECED 40126 and ECED 40127 and ECED 40147.

**Schedule Type:** Practical Experience

**Contact Hours:** 9 other

**Grade Mode:** Satisfactory/Unsatisfactory

**Attributes:** Experiential Learning Requirement

**ECED 40093 VARIABLE TITLE WORKSHOP IN EARLY CHILDHOOD EDUCATION 1-5 Credit Hours**

(Repeatable for credit) (Slashed with ECED 50093 and ECED 70093)  
Topics of special interest to students desiring to intensify their knowledge in particular areas. Presenters include Kent early childhood faculty members and may include experts from outside agencies and other institutions.

**Prerequisite:** Permission.

**Schedule Type:** Workshop

**Contact Hours:** 3 other

**Grade Mode:** Satisfactory/Unsatisfactory

**ECED 40105 APPROPRIATE PHONICS INSTRUCTION FOR KINDERGARTEN AND PRIMARY CHILDREN 3 Credit Hours**

(Slashed with ECED 50105) An examination of phonics in early reading and writing development, effective strategies for teaching and assessing phonics appropriate for kindergarten and primary grade children.

**Prerequisite:** ECED 30123; and admission to advanced study.

**Corequisite:** ECED 30144 ECED 40107 and ECED 40123 and ECED 40142 (Block III).

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ECED 40107 TEACHING MATHEMATICS: EARLY YEARS I 3 Credit Hours**

Instructional psychology and materials for effective teaching of mathematics in grades K-1 with a theoretical emphasis on cognitive development.

**Prerequisite:** ECED 30147 and MATH 14001 and 14002; and admission to advanced study.

**Corequisite:** ECED 30144 and ECED 40105 and ECED 40123 and ECED 40142.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ECED 40114 TEACHING SCIENCE IN THE EARLY YEARS 3 Credit Hours**

(Slashed with ECED 50114) This course investigates engaging young children in inquiry-based processes of science. Emphasis is given to creating developmentally appropriate experiences in accordance to NAEYC guidelines. National and state science standards as well as the college and graduate school of education conceptual framework. Attention is focused on the use of science materials safety planning assessment and incorporating science across the curriculum.

**Prerequisite:** ECED 30147; and admission to advanced study.

**Corequisite:** ECED 40126 and ECED 40127 and ECED 40092 and ECED 40147 (Block IV).

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ECED 40123 CRITICAL INQUIRY INTO INTEGRATED CURRICULUM IN THE PRIMARY YEARS 3 Credit Hours**

(Slashed with ECED 50123) Theoretical and content background addressing integration of curriculum and global perspectives aligned with the International Baccalaureate Primary Years Program.

**Prerequisite:** Admission to advanced study.

**Corequisite:** ECED 30144 and ECED 40105 and ECED 40107 and ECED 40142.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ECED 40125 INQUIRY INTO PROFESSIONAL PRACTICE 3 Credit Hours**

Interdisciplinary inquiry into teaching as a professional practice in early childhood education. Completion of edTPA portfolio.

**Prerequisite:** ECED 40401, ECED 40402, ECED 40403, ECED 40404 and ECED 44444 (Block IV) all with a minimum C grade; and admission to advanced study.

**Corequisite:** ECED 40292.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ECED 40126 DEVELOPMENTAL READING AND WRITING: EARLY YEARS 3 Credit Hours**

(Slashed with ECED 50126) This course explores how teachers support children's literacy development through small group strategic instruction based on formative assessments.

**Prerequisite:** ECED 40105; and admission to advanced study.

**Corequisite:** ECED 40092 and ECED 40114 and ECED 40127 and ECED 40147.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ECED 40127 DEVELOPING A BALANCED LITERACY PROGRAM (WIC) 3 Credit Hours**

This course expands on the previous three literacy courses to explore how research-based instruction requires a balance of literacy learning formats; an integration with learning in the content areas and is based on assessment of individual children's writing abilities and how to design instruction to meet the needs of writers. The course specifically develops understandings about principles, practices, theories and research related to writing instruction.

**Prerequisite:** ECED 40105; and admission to advanced study.

**Corequisite:** ECED 40114 and ECED 40126 and ECED 40092 and ECED 40147.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Writing Intensive Course

**ECED 40142 HOME-SCHOOL-COMMUNITY-PARTNERSHIPS IN DIVERSE CONTEXTS (ELR) 3 Credit Hours**

(Slashed with ECED 50142) Approaches to parent and community involvement in the education and welfare of children are examined, applied, and discussed. Focuses are theories, policies, practices, skills, and knowledge of partnership building in educational settings. An emphasis on differentiation of practices for diverse communities is applied to teaching and learning in the primary grades.

**Prerequisite:** Admission to advanced study.

**Corequisite:** ECED 30144 and ECED 40105 and 40107 and 40123.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Experiential Learning Requirement, TAG Education

**ECED 40145 MUSIC MOVEMENT IN PRE-PRIMARY EDUCATION 3 Credit Hours**

(Slashed with ECED 50145) Music and movement for pre-primary children. Course intended for majors in early childhood education or other persons desiring additional work with pre-primary children.

**Prerequisite:** Admission to advanced study.

**Corequisite:** ECED 20163 and ECED 30134 and ECED 30164 (ECED Block I).

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ECED 40147 TEACHING MATHEMATICS:EARLY YEARS II 3 Credit Hours**

Instructional psychology and materials for effective teaching of mathematics in grades K-3 with a theoretical emphasis on cognitive development.

**Prerequisite:** MATH 14001 and 14002 with a minimum C grade; and admission to advanced study.

**Corequisite:** ECED 40114 and ECED 40126 and ECED 40127 and ECED 40092 (Block IV).

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ECED 40151 GUIDANCE OF YOUNG CHILDREN 3 Credit Hours**

Principles and practices of appropriate guidance for young children, intervention strategies, resources and materials for guidance.

**Prerequisite:** Admission to advanced study.

**Corequisite:** ECED 40105 and 40107 and 40142 and CULT 29535.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ECED 40165 INTEGRATED APPLICATION OF PRESCHOOL CURRICULUM 3 Credit Hours**

(Equivalent to ECET 22140) Internship in preschool. Advanced integrated preschool curriculum utilizing principles of developmentally appropriate practice focusing on infant toddler and preschool age children.

Students are required to complete Bureau of Criminal Investigation and Identification (BCII) and Federal Bureau of Investigation (FBI) background checks and submit the results to authorized personnel at their assigned school-agency before the first day of the semester in which student teaching internship will take place.

**Prerequisite:** ECED 30164.

**Corequisite:** ECED 30123 and ECED 30142 and ECED 30147 and ECED 40192.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ECED 40192 INTERNSHIP IN PRESCHOOL (ELR) 4-6 Credit Hours**

(Equivalent to ECET 22192) Internship in preschool settings, full day for fifteen weeks. Corequisites: ECED 30123 and ECED 30142 and ECED 30147 and ECED 40165

**Prerequisite:** ECED 30164; and admission to advanced study; and Official valid certification of Child Safety Training, approved Basic Life Support and ALICE Training must be presented to the campus office of clinical experience or designated faculty/staff at Regional campuses as prerequisite for student teaching.

**Schedule Type:** Practical Experience

**Contact Hours:** 20-30 other

**Grade Mode:** Satisfactory/Unsatisfactory

**Attributes:** Experiential Learning Requirement

**ECED 40196 INDIVIDUAL INVESTIGATION IN EARLY CHILDHOOD EDUCATION 1-5 Credit Hours**

(Repeatable for credit) Open to seniors in ECED. Intensive individual study on an early childhood topic selected by student and adviser.

**Prerequisite:** Admission to advanced study; and special approval.

**Schedule Type:** Individual Investigation

**Contact Hours:** 1-5 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**ECED 40203 CRITICAL INQUIRY: THE IB FRAMEWORK 3 Credit Hours**

(Slashed with ECED 50203) Theoretical and content background addressing integration of curriculum and global perspectives aligned with the International Baccalaureate Primary Years Program.

**Prerequisite:** Minimum C grade in the following courses ECED 20101, ECED 20102, ECED 20103, ECED 20104 and ECED 20192 (Block I); and admission to advanced study.

**Corequisite:** ECED 22222, ECED 30201 and ECED 30202 (Block II).

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ECED 40292 INTERNSHIP IN ELEMENTARY SCHOOLS (ELR) 4-9 Credit Hours**

(Repeatable for credit) Internship in grades K-5, full day for 15 weeks.

Students are required to complete Bureau of Criminal Investigation and Identification (BCII) and Federal Bureau of Investigation (FBI) background checks and submit the results to authorized personnel at their assigned school-agency before the first day of the semester in which student teaching internship will take place.

**Prerequisite:** ECED 40401, ECED 40402, ECED 40403, ECED 40404 and ECED 44444 (Block IV) all with a minimum C grade; official valid certification of Child Safety Training, approved Basic Life Support and ALICE Training must be presented to the campus office of clinical experience or designated faculty-staff at Regional campuses as prerequisite for student teaching; and admission to advanced study.

**Corequisite:** ECED 40125.

**Schedule Type:** Practical Experience

**Contact Hours:** 18-36 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**Attributes:** Experiential Learning Requirement

**ECED 40301 TEACHING SOCIAL STUDIES IN THE ELEMENTARY YEARS 3 Credit Hours**

Objectives, resources, curriculum development, and methods of teaching social studies K-fifth grade with an emphasis on developing integrated social studies curriculum and engaging professional collaboration with teachers in the field. Emphasis on non-dominant narratives will be considered. At least one field experience assignment will be integrated in this course.

**Prerequisite:** ECED 22222, ECED 30201, ECED 30202 and ECED 40203 (Block II) all with a minimum C grade; and ECED 20102 with a minimum of a C grade; and admission to advanced study.

**Corequisite:** ECED 40302, ECED 40303, ECED 40304 and ECED 43333 (Block III).

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ECED 40302 APPROPRIATE PHONICS INSTRUCTION AND WORD STUDY 3 Credit Hours**

(Slashed with ECED 50302) An examination of phonics in reading and writing development, effective strategies for teaching and assessing phonics appropriate for K-5 students.

**Prerequisite:** ECED 22222, ECED 30201, ECED 30202 and ECED 40203 (Block II) all with a minimum C grade; and admission to advanced study.

**Corequisite:** ECED 40301, ECED 40303, ECED 40304 and ECED 43333 (Block III).

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ECED 40303 TEACHING MATHEMATICS IN THE ELEMENTARY YEARS I 3 Credit Hours**

Instructional psychology and materials for effective teaching of mathematics in grades K-5 with a theoretical emphasis on cognitive development.

**Prerequisite:** ECED 22222, ECED 30201, ECED 30202 and ECED 40203 (Block II) all with a minimum C grade; and admission to advanced study.

**Corequisite:** ECED 40301, ECED 40302, ECED 40304 and ECED 43333 (Block III).

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ECED 40304 TEACHING SCIENCE IN THE ELEMENTARY YEARS 3 Credit Hours**

(Slashed with ECED 50304) This course investigates engaging students in inquiry-based science practices and big science ideas. Emphasis is given to creating developmentally appropriate experiences.

**Prerequisite:** ECED 22222, ECED 30201, ECED 30202 and ECED 40203 (Block II) all with a minimum C grade; and admission to advanced study.

**Corequisite:** ECED 40301, ECED 40302, ECED 40303 and ECED 43333 (Block III).

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ECED 40401 TEACHING SCIENCE AND SOCIAL STUDIES IN THE ELEMENTARY YEARS 3 Credit Hours**

This course focuses on the following aspects for grades 2-5: science and social studies content and practices; planning and teaching of science and social studies; and critical literacy and non-dominant narratives. There are field-based assignments in this course.

**Prerequisite:** ECED 40301, ECED 40302, ECED 40303, ECED 40304 and ECED 43333 (Block III) all with a minimum C grade; and admission to advanced study.

**Corequisite:** ECED 40402, ECED 40403, ECED 40404 and ECED 44444 (Block IV).

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ECED 40402 DEVELOPMENTAL READING AND WRITING IN THE ELEMENTARY YEARS 3 Credit Hours**

(Slashed with ECED 50402) This course explores how teachers support children's literacy development through small group strategic instruction based on formative assessments.

**Prerequisite:** ECED 40301, ECED 40302, ECED 40303, ECED 40304 and ECED 43333 (Block III); and admission to advanced study.

**Corequisite:** ECED 40401, ECED 40403, ECED 40404 and ECED 44444 (Block IV).

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ECED 40403 DEVELOPING A BALANCED LITERACY PROGRAM IN THE ELEMENTARY YEARS (WIC) 3 Credit Hours**

This course expands on the previous three literacy courses to explore how research-based instruction requires a balance of literacy learning formats; an integration with learning in the content areas and is based on assessment of individual children's writing abilities and how to design instruction to meet the needs of writers. The course specifically develops understandings about principles, practices, theories and research related to writing instruction. There are field-based assignments in this course.

**Prerequisite:** Minimum C grade in ECED 40301, ECED 40302, ECED 40303, ECED 40304 and ECED 43333 (Block III); and admission to advanced study.

**Corequisite:** ECED 40401, ECED 40402, ECED 40404 and ECED 44444 (Block IV).

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Writing Intensive Course

**ECED 40404 TEACHING MATHEMATICS IN THE ELEMENTARY YEARS II 3 Credit Hours**

Instructional psychology and materials for effective teaching of mathematics in grades K-5 with a theoretical emphasis on cognitive development. There are field-based assignments in this course.

**Prerequisite:** ECED 40301, ECED 40302, ECED 40303, ECED 40304 and ECED 43333 (Block III) all with a minimum C grade; and admission to advanced study.

**Corequisite:** ECED 40401, ECED 40402, ECED 40403 and ECED 44444 (Block IV).

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter



**ECED 43333 FAMILY-SCHOOL-COMMUNITY PARTNERSHIPS IN DIVERSE SETTINGS 3 Credit Hours**

Approaches to parent and community involvement in the education and welfare of children are examined, applied, and discussed. Focuses are theories, policies, practices, skills, and knowledge of partnership building in educational settings. An emphasis on differentiation of practices for diverse communities is applied to teaching and learning in the elementary grades. This course has a field component attached to it. Students are required to complete Bureau of Criminal Investigation and Identification (BCII) and Federal Bureau of Investigation (FBI) background checks and submit the results to authorized personnel at their assigned school-agency before the first day of the semester in which field work will take place.

**Prerequisite:** ECED 22222, ECED 30201, ECED 30202 and ECED 40203 (Block II) all with a minimum C grade; and admission to advanced study.

**Corequisite:** ECED 40301, ECED 40302, ECED 40303 and ECED 40304 (Block III).

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ECED 44444 DEVELOPMENT AND PEDAGOGY IN UPPER ELEMENTARY SCHOOL 3 Credit Hours**

Growth and development of children in grades four and five; implications for the application to the intermediate classroom; developmentally-appropriate practices including differentiation; examination of classroom systems and whole-child learning including impacts of trauma and stress. There are field-based assignments in this course.

**Prerequisite:** ECED 40301, ECED 40302, ECED 40303, ECED 40304 and ECED 43333 (Block III) all with a minimum C grade; and admission to advanced study.

**Corequisite:** ECED 40401, ECED 40402, ECED 40403 and ECED 40404 (Block IV).

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ECED 50093 VARIABLE TITLE WORKSHOP IN EARLY CHILDHOOD EDUCATION 1-5 Credit Hours**

(Repeatable for credit) (Slashed with ECED 40093 and ECED 70093) Variable topic workshop in early childhood education.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Workshop

**Contact Hours:** 1-5 other

**Grade Mode:** Satisfactory/Unsatisfactory

**ECED 50105 APPROPRIATE PHONICS INSTRUCTION FOR KINDERGARTEN AND PRIMARY CHILDREN 3 Credit Hours**

An examination of phonics in early reading and writing development, effective strategies for teaching and assessing phonics appropriate for kindergarten and primary grade children.

**Prerequisite:** ECED 60167; and Early Childhood Education major; and graduate standing.

**Corequisite:** ECED 50147, ECED 50114 and ECED 50126.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ECED 50114 TEACHING SCIENCE IN THE EARLY YEARS 3 Credit Hours**

(Slashed with ECED 40114) This course investigates engaging young children in inquiry-based processes of science. Emphasis is given to creating developmentally appropriate experiences in accordance to NAEYC guidelines. National and state science standards as well as the college and graduate school of education conceptual framework. Attention is focused on the use of science materials safety planning assessment and incorporating science across the curriculum.

**Prerequisite:** Graduate standing in the Master of Arts in Teaching program.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ECED 50123 CRITICAL INQUIRY INTO INTEGRATED CURRICULUM IN THE PRIMARY YEARS 3 Credit Hours**

(Slashed with ECED 40123) Theoretical and content background addressing integration of curriculum and global perspectives aligned with the International Baccalaureate Primary Years Program.

**Prerequisite:** ECED 60113 and 60152; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ECED 50125 INQUIRY INTO PROFESSIONAL PRACTICE 3 Credit Hours**

(Slashed with ECED 40125) Interdisciplinary inquiry into teaching as a professional practice in early childhood education. Completion of edTPA portfolio. Corequisites: ECED 67292

**Prerequisite:** Admission to advanced study; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ECED 50126 DEVELOPMENTAL READING AND WRITING: THE EARLY YEARS 3 Credit Hours**

(Slashed with ECED 40126) This course explores how teachers support children's literacy development through small group strategic instruction based on formative assessments.

**Prerequisite:** Early Childhood Education major within the Master of Arts in Teaching degree.

**Corequisite:** ECED 50105.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ECED 50142 HOME, SCHOOL AND COMMUNITY RELATIONS 3 Credit Hours**

(Slashed with ECED 40142) Approaches to parent and community involvement in the education and welfare of children. Understanding of role of community agencies and organizations.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ECED 50145 MUSIC AND MOVEMENT IN PRE-PRIMARY EDUCATION**  
**3 Credit Hours**

(Slashed with ECED 40145) Music and movement for pre-primary children. Course intended for majors in early childhood education or other persons desiring additional work with pre-primary children.

**Prerequisite:** Graduate standing; and special approval from instructor.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ECED 50147 TEACHING MATHEMATICS:EARLY YEARS** **3 Credit Hours**

Instructional psychology and materials for effective teaching of mathematics in prekindergarten through grade three with a theoretical emphasis on cognitive development.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ECED 50153 ORGANIZATION AND SUPERVISION OF EARLY CHILDHOOD CENTERS** **3 Credit Hours**

Basic guidelines for establishing and supervising early childhood settings for infants, preschool and school age children.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ECED 50203 CRITICAL INQUIRY: THE IB FRAMEWORK** **3 Credit Hours**

(Slashed with ECED 40203) Theoretical and content background addressing integration of curriculum and global perspectives aligned with the International Baccalaureate Primary Years Program.

**Prerequisite:** ECED 60113 and ECED 60152; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ECED 50301 TEACHING SOCIAL STUDIES IN K-5 CLASSROOMS** **3 Credit Hours**

Social Studies objectives, resources, curriculum development, and methods of teaching K-5 with an emphasis on developing integrated social studies curriculum and engaging professional collaborations with teachers in the field is emphasized. Narratives of diversity and difference with an emphasis upon social justice pedagogies are discussed and described. At least one field based experience assignment will be integrated into teaching and learning in this course.

**Prerequisite:** Graduate standing.

**Corequisite:** ECED 50304 and ECED 50402 and ECED 50403 and ECED 50404.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ECED 50302 APPROPRIATE PHONICS INSTRUCTION AND WORD STUDY** **3 Credit Hours**

(Slashed with ECED 40302) An examination of phonics in reading and writing development, effective strategies for teaching and assessing phonics appropriate for K-5 students.

**Prerequisite:** ECED 60113; and Early Childhood Education major; and graduate standing.

**Corequisite:** ECED 50303 and ECED 60152 and ECED 60201.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ECED 50303 TEACHING MATHEMATICS IN THE ELEMENTARY YEARS I**  
**3 Credit Hours**

Instructional psychology and materials for effective teaching of mathematics in grades K-5 with a theoretical emphasis on cognitive development.

**Prerequisite:** ECED 50102 and ECED 60113 and ECED 60151; and graduate standing.

**Corequisite:** ECED 50302 and ECED 60152 and ECED 60201 and ECED 63333.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ECED 50304 TEACHING SCIENCE IN THE ELEMENTARY YEARS** **3 Credit Hours**

(Slashed with ECED 40304) This course investigates engaging students in inquiry-based science practices and big science ideas. Emphasis is given to creating developmentally appropriate experiences.

**Prerequisite:** Majors enrolled in a Master of Arts in Teaching degree; and graduate standing.

**Corequisite:** ECED 50301 and ECED 50402 and ECED 50403 and ECED 50404.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ECED 50402 DEVELOPMENTAL READING AND WRITING IN THE ELEMENTARY YEARS** **3 Credit Hours**

(Slashed with ECED 40402) This course explores how teachers support children's literacy development through small group strategic instruction based on formative assessments.

**Prerequisite:** ECED 50302 and ECED 50303 and ECED 60201 and ECED 63333 all with a minimum C grade; and Early Childhood Education within the Master of Arts in Teaching degree; and graduate standing.

**Corequisite:** ECED 50301 and ECED 50304 and ECED 50403 and ECED 50404.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ECED 50403 DEVELOPING A BALANCED LITERACY PROGRAM IN THE ELEMENTARY YEARS 3 Credit Hours**

This course expands on the previous three literacy courses to explore how research-based instruction requires a balance of literacy learning formats; an integration with learning in the content areas and is based on assessment of individual children's writing abilities and how to design instruction to meet the needs of writers. The course specifically develops understandings about principles, practices, theories and research related to writing instruction. There are field-based assignments in this course.

**Prerequisite:** ECED 50302 and ECED 50303 and ECED 60103 and ECED 60113 and ECED 60151 and ECED 60152 and ECED 60201; and graduate standing.

**Corequisite:** ECED 50301 and ECED 50304 and ECED 50402 and ECED 50404.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ECED 50404 TEACHING MATHEMATICS IN THE ELEMENTARY YEARS II 3 Credit Hours**

Instructional psychology and materials for effective teaching of mathematics in grades K-5 with a theoretical emphasis on cognitive development. There are field based assignments in this course.

**Prerequisite:** ECED 50303 and ECED 60152; and graduate standing.

**Corequisite:** ECED 50402 and ECED 50301 and ECED 50304 and ECED 50403.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ECED 54444 DEVELOPMENT AND PEDAGOGY IN UPPER ELEMENTARY SCHOOL 3 Credit Hours**

Growth and development of children in grades four and five; implications for the application to the intermediate classroom; developmentally-appropriate practices including differentiation; examination of classroom systems and whole-child learning including impacts of trauma and stress. There are field-based assignments in this course.

**Prerequisite:** Graduate standing.

**Pre/corequisite:** CI 67005.

**Corequisite:** ECED 50203 and ECED 60115.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ECED 60101 CONSTRUCTIVIST TEACHING IN TRADITIONAL AND NON-TRADITIONAL EARLY CHILDHOOD SETTINGS 3 Credit Hours**

Theorists and researchers with a constructivist orientation will be examined in relationship to teacher beliefs and diverse settings. The course will focus on constructivist practices emphasizing child sensitive curriculum within traditional (classrooms and schools) and non-traditional settings (museums, forests, etc.).

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ECED 60102 DEVELOPING A BALANCED LITERACY PROGRAM 3 Credit Hours**

An examination of own teaching practice focusing on assessment strategies to inform decision making for individual children and evaluation strategies to fine tune a balanced literacy program.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ECED 60103 SOCIAL STUDIES AND THE ARTS IN PRESCHOOL 3 Credit Hours**

Young children's development in the expressive arts and social studies; implications for development of the environment, integrated curriculum and teaching methods for preschool children. There are field-based assignments in this course.

**Prerequisite:** Graduate standing.

**Corequisite:** ECED 60113 and ECED 60151 and ECED 67292.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ECED 60110 TEACHING HUMANITIES: EARLY YEARS 3 Credit Hours**

Looking at Humanities through the lens of a young child's experience in learning with a focus on visual thinking and expression, music and movement.

**Prerequisite:** Admission to advanced study; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ECED 60112 HUMANITIES FOR CHILDREN 2 Credit Hours**

(Slashed with ECED 70112) Relevance of humanities as applied to education of young children.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**ECED 60113 PRESCHOOL EDUCATION 3 Credit Hours**

(Slashed with ECED 70113) In-depth study of curriculum development in preschool programs.

**Prerequisite:** Graduate standing.

**Corequisite:** ECED 60103 and ECED 60151 and ECED 67292.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ECED 60115 SCIENCE TECHNOLOGY ENGINEERING AND MATHEMATICS FOUNDATIONS FOR EARLY AND MIDDLE CHILDHOOD EDUCATION 3 Credit Hours**

(Cross-listed with MCEd 60115) This course introduces early and middle childhood educators to STEM (Science, Technology, Engineering, Mathematics) for students in K-6 classrooms. This includes a foundation and overview of the what, how, and why STEM is included in K-6 classrooms. As a foundations course, students will gain exposure to integrating the STEM disciplines, assessment of mathematics and science in STEM, and aspects of developmentally appropriate STEM for early and middle childhood settings.

**Prerequisite:** ECED 50404, ECED 50304 and ECED 50303; and graduate standing.

**Corequisite:** ECED 50203.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ECED 60116 SCIENCE TECHNOLOGY ENGINEERING AND MATH INQUIRY FOR EARLY CHILDHOOD EDUCATION 3 Credit Hours**

This course builds on STEM Foundations for Early Childhood Education. Interdisciplinary teaching of STEM for young children is the main focus, with attention to specific pedagogical applications. Thus, inquiry as a pedagogic approach to STEM application is a central, concurrent feature of this course.

**Prerequisite:** ECED 60115; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ECED 60145 TEACHING SOCIAL STUDIES: EARLY YEARS 3 Credit Hours**

Involves the systematic study of the theories, methods, and materials necessary to successfully teach social studies to diverse populations of pre-Kindergarten and elementary school students growing up in a global society. The course will consider aspects of the history of social studies and theory and research in social education as a background for understanding methods and materials.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ECED 60151 SOCIOMORAL ENVIRONMENT IN EARLY CHILDHOOD EDUCATION 3 Credit Hours**

(Slashed with ECED 70151) Children's social and moral development will be explored in relationship to the context of primary classrooms. Children's social problem-solving, friendship making, guidance strategies and interventions, building and facilitating classroom communities and promoting caring classrooms will be the focus of this course.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ECED 60152 APPLICATION OF SELECTED THEORETICAL PRINCIPLES TO THE DEVELOPMENT OF YOUNG CHILDREN 3 Credit Hours**

(Slashed with ECED 70152) Examination of theories pertaining to child development which have special relevance in understanding and meeting developmental needs of young children. Application of selected theoretical principles to child development.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ECED 60156 FOUNDATIONS IN EARLY CHILDHOOD SERVICES 3 Credit Hours**

(Cross-listed with SPED 63956 and SPED 73956) Issues facing children within family/society; history of early childhood services; theoretical perspectives; implications of childhood disabilities; recommended assessment, intervention and evaluation.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ECED 60158 RECONCEPTUALIZING EARLY CHILDHOOD CURRICULUM 3 Credit Hours**

(Slashed with ECED 70158) Course examines postmodern understanding of early childhood education curricula in relationship to teaching (instruction-oriented teaching vs. pedagogy-based teaching). Social, historical, legal, political, international and cultural issues that have affected early childhood education curricula practices will be critically examined.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ECED 60159 FAMILY PROFESSIONAL COLLABORATION IN EARLY CHILDHOOD 3 Credit Hours**

(Cross-listed with SPED 63952) Examines issues facing families and professionals serving young children who are at risk, disabled and typically developing.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ECED 60160 TYPICAL AND ATYPICAL DEVELOPMENT IN YOUNG CHILDREN 3 Credit Hours**

(Cross-listed with SPED 63955) Overview of typical/atypical development pathways age three to grade three: theories of behavior, implications of atypical development on play/learning; development within ecological framework.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ECED 60163 CONTEMPORARY ISSUES AND TRENDS IN EARLY CHILDHOOD EDUCATION 3 Credit Hours**

(Slashed with ECED 70163) The course is an examination of contemporary issues with young children, families, school communities, and diverse populations detailing the philosophical, social, and political ramifications of the study of children highlighting current research, practices and policies. This course will examine a body of literature, (recent seminal works of impact in early childhood), which encompass a few of the pervasive dilemmas and debates shaping the early childhood field in the U.S. today (with a global international backdrop). International perspectives on issues will be liberally juxtaposed in conjunction with U.S. issues, and overall this course will address how educators have and can structure their practice with various communities to support young children, families, and society.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ECED 60167 LANGUAGE AND LITERACY:UNDERSTANDING DEVELOPMENT 3 Credit Hours**

(Slashed with ECED 70167) The development of language in children from birth through age eight with a focus on the process of typical language development and the diversity of multi-cultural language. Topics specifically related to classroom teaching include the assessment of language delays and disorders and strategies for connecting oral language to literacy in preschool.

**Prerequisite:** Graduate standing.

**Corequisite:** ECED 60152.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ECED 60169 UNDERSTANDING EMERGENT BILINGUAL AND IMMIGRANT STUDENTS AND THEIR FAMILIES 3 Credit Hours**

(Slashed with ECED 80169) This course is designed to help the general practitioner understand and know foundational concepts about multi-lingual students, immigrants, English Language Learners and their families.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ECED 60170 WRITING FOR PUBLICATION AND DISSEMINATION IN EARLY CHILDHOOD EDUCATION 3 Credit Hours**

The seminar examines publication possibilities within early childhood education. A wide range of writing (e.g., journals, book reviews, training modules-manuals) will be reviewed for topics concerning young children (i.e., education, development, families, care, schools, health, and-or their teachers-providers.) This seminar will rely greatly on student participation for determining topics in support of individual interests, research, teaching practices at the university level, curriculum practices in the early childhood classrooms and settings, and more.

**Prerequisite:** Graduate standing.

**Schedule Type:** Seminar

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ECED 60171 TEACHING EMERGENT BILINGUAL AND IMMIGRANTS IN THE EARLY YEARS 3 Credit Hours**

(Slashed with ECED 80171) General educators will explore the application of teaching methods and a variety of curriculum approaches for immigrant and bi-literate children, and apply more fully their work with families and communities.

**Prerequisite:** ECED 60169; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ECED 60199 THESIS I 2-6 Credit Hours**

Thesis students must register for a total of 6 hours, 2 to 6 hours in a single semester distributed over several semesters if desired.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Masters Thesis

**Contact Hours:** 2-6 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**ECED 60201 LANGUAGE AND LITERACIES 3 Credit Hours**

An examination of the process of languages and literacies development. This course focuses on teaching literacy to primary age students.

**Prerequisite:** Graduate standing.

**Corequisite:** ECED 50302 and ECED 50303 and ECED 60152 and ECED 63333.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ECED 60299 THESIS II 2 Credit Hours**

Thesis students must continue registration each semester until all degree requirements are met.

**Prerequisite:** ECED 60199; and graduate standing.

**Schedule Type:** Masters Thesis

**Contact Hours:** 2 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**ECED 63333 FAMILY-SCHOOL-COMMUNITY PARTNERSHIPS IN DIVERSE SETTINGS 3 Credit Hours**

Approaches to parent and community involvement in the education and welfare of children are examined, applied, and discussed. Focuses are theories, policies, practices, skills, and knowledge of partnership building in educational settings. An emphasis on differentiation of practices for diverse communities is applied to teaching and learning in the primary grades.

**Prerequisite:** Graduate standing.

**Corequisite:** ECED 50302, ECED 50303, ECED 60201 and ECED 60152.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ECED 67291 SEMINAR IN EARLY CHILDHOOD EDUCATION 1-4 Credit Hours**

(Repeatable for credit) (Slashed with ECED 77291) Seminar in early childhood education.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Seminar

**Contact Hours:** 1-4 other

**Grade Mode:** Standard Letter

**ECED 67292 PRACTICUM AND INTERNSHIP IN EARLY CHILDHOOD EDUCATION 1-10 Credit Hours**

(Repeatable for credit) (Slashed with ECED 77292) Practicum/internship in early childhood education. Students are required to complete Bureau of Criminal Investigation and Identification (BCII) and Federal Bureau of Investigation (FBI) background checks and submit the results to authorized personnel at their assigned school/agency before the first day of the semester in which student teaching/ internship will take place.

**Prerequisite:** Official valid certification of Child Safety Training, approved Basic Life Support and ALICE Training must be presented to the campus office of clinical experience or designated faculty/staff at Regional campuses as prerequisite for student teaching; and graduate standing.

**Schedule Type:** Practical Experience

**Contact Hours:** 3-30 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**ECED 67295 SPECIAL TOPICS IN EARLY CHILDHOOD EDUCATION 1-5 Credit Hours**

(Repeatable for credit) (Slashed with ECED 77295) Special topics in early childhood education.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 1-5 lecture

**Grade Mode:** Standard Letter



**ECED 67296 INDIVIDUAL INVESTIGATION IN EARLY CHILDHOOD EDUCATION 1-5 Credit Hours**

(Repeatable for credit) Individual investigation in early childhood education.

**Prerequisite:** Graduate standing; and permission.

**Schedule Type:** Individual Investigation

**Contact Hours:** 1-5 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**ECED 67298 RESEARCH IN EARLY CHILDHOOD EDUCATION 1-15 Credit Hours**

(Repeatable for credit) Research in early childhood education.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Research

**Contact Hours:** 1-15 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**ECED 70093 VARIABLE TITLE WORKSHOP IN EARLY CHILDHOOD EDUCATION 1-5 Credit Hours**

(Repeatable for credit) (Slashed with ECED 40093 and ECED 50093)

**Prerequisite:** Doctoral standing; and special approval.

**Schedule Type:** Workshop

**Contact Hours:** 1-5 other

**Grade Mode:** Satisfactory/Unsatisfactory

**ECED 70101 CONSTRUCTIVIST TEACHING IN EARLY CHILDHOOD CLASSROOMS 3 Credit Hours**

Theorists and researchers with a constructivist orientation will be examined in relationship to teacher beliefs. The course will focus on constructivist practices emphasizing child-sensitive curriculum and teaching practices.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ECED 70102 DEVELOPING A BALANCED LITERACY PROGRAM 3 Credit Hours**

An examination of own teaching practice focusing on assessment strategies to inform decision-making for individual children and evaluation strategies to fine tune a balanced literacy program.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ECED 70112 HUMANITIES FOR CHILDREN 2 Credit Hours**

(Slashed with ECED 60112) Relevance of humanities as applied to education of young children.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**ECED 70113 PRESCHOOL EDUCATION 3 Credit Hours**

(Slashed with ECED 60113) In-depth study of curriculum development in preschool programs.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ECED 70151 SOCIOMORAL ENVIRONMENT IN EARLY CHILDHOOD EDUCATION 3 Credit Hours**

(Slashed with ECED 60151) Children's social and moral development will be explored in relationship to the context of primary classrooms. Children's social problem-solving, friendship-making, guidance strategies and interventions, building and facilitating classroom communities and promoting caring classrooms will be the focus of this course.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ECED 70152 APPLICATION OF SELECTED THEORETICAL PRINCIPLES TO THE DEVELOPMENT OF YOUNG CHILDREN 3 Credit Hours**

(Slashed with ECED 60152) Examination of theories pertaining to child development which have special relevance in understanding and meeting developmental needs of young children. Application of selected theoretical principles to child development.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ECED 70158 RECONCEPTUALIZING EARLY CHILDHOOD CURRICULUM 3 Credit Hours**

(Slashed with ECED 60158) Course examines postmodern understanding of early childhood education curricula in relationship to teaching (instruction-oriented teaching vs. pedagogy-based teaching). Social, historical, legal, political, international and cultural issues that have affected early childhood education curricula practices will be critically examined.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ECED 70163 CONTEMPORARY ISSUES AND TRENDS IN EARLY CHILDHOOD EDUCATION 3 Credit Hours**

(Slashed with ECED 60163) The course is an examination of contemporary issues with young children, families, school communities, and diverse populations detailing the philosophical, social, and political ramifications of the study of children highlighting current research, practices and policies. This course will examine a body of literature (recent seminal works of impact in early childhood), which encompass a few of the pervasive dilemmas and debates shaping the early childhood field in the U.S. today (with a global international backdrop). International perspectives on issues will be liberally juxtaposed with U.S. issues, and overall this course will address how educators have and can structure their practice with various communities to support young children, families and society.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ECED 70167 LANGUAGE AND LITERACY:UNDERSTANDING DEVELOPMENT 3 Credit Hours**

(Slashed with ECED 60167) The development of language in children from birth through age eight with a focus on the process of typical language development and the diversity of multi-cultural language. Topics specifically related to classroom teaching include the assessment of language, delays and disorders and strategies for connecting oral language to literacy in preschool.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ECED 70170 WRITING FOR PUBLICATION AND DISSEMINATION IN EARLY CHILDHOOD EDUCATION 3 Credit Hours**

(Slashed with ECED 60170) The seminar examines publication possibilities within the field of early childhood education. A wide range of writing (e.g., journals, books reviews, training modules-manuals) will be reviewed for topics concerning young children (i.e., education, development, families, care, schools, health, and-or their teachers providers.) This seminar will rely a great deal on student participation for determining topics in support of individual interests, research, teaching practices at the university level, curriculum practices in the early childhood classrooms and settings and more.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Seminar

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ECED 77291 SEMINAR IN EARLY CHILDHOOD EDUCATION 1-4 Credit Hours**

(Repeatable for credit) (Slashed with ECED 67291) Seminar in ECED.

**Prerequisite:** Doctoral standing; and special approval.

**Schedule Type:** Seminar

**Contact Hours:** 1-4 other

**Grade Mode:** Standard Letter

**ECED 77292 PRACTICUM AND INTERNSHIP IN EARLY CHILDHOOD EDUCATION 1-10 Credit Hours**

(Repeatable for credit) (Slashed with ECED 67292) Practicum/ internship in ECED. Students are required to complete Bureau of Criminal Investigation and Identification (BCII) and Federal Bureau of Investigation (FBI) background checks and submit the results to authorized personnel at their assigned school/agency before the first day of the semester in which student teaching/ internship will take place.

**Prerequisite:** Doctoral standing; and special approval.

**Schedule Type:** Practical Experience

**Contact Hours:** 3-30 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**ECED 77295 SPECIAL TOPICS IN EARLY CHILDHOOD EDUCATION 1-5 Credit Hours**

(Repeatable for credit) (Slashed with ECED 67295) Special topics in ECED.

**Prerequisite:** Doctoral standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 1-5 lecture

**Grade Mode:** Standard Letter

**ECED 80169 UNDERSTANDING EMERGENT BILINGUAL AND IMMIGRANT STUDENTS AND THEIR FAMILIES 3 Credit Hours**

(Slashed with ECED 60169) This course is designed to help the general practitioner understand and know foundational concepts about multi-lingual students, immigrants, English Language Learners and their families.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ECED 80171 TEACHING EMERGENT BILINGUAL AND IMMIGRANTS IN THE EARLY YEARS 3 Credit Hours**

(Slashed with ECED 60171) General educators will explore the application of teaching methods and a variety of curriculum approaches for immigrant and bi-literate children, and apply more fully their work with families and communities.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ECED 80291 ADVANCED SEMINAR IN EARLY CHILDHOOD EDUCATION 1-4 Credit Hours**

(Repeatable for credit) Advanced seminar in ECED.

**Prerequisite:** Doctoral standing; and permission.

**Schedule Type:** Seminar

**Contact Hours:** 1-4 other

**Grade Mode:** Standard Letter

**ECED 80295 SPECIAL TOPICS IN EARLY CHILDHOOD EDUCATION 1-5 Credit Hours**

(Repeatable for credit) Special topics in ECED.

**Prerequisite:** Doctoral standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 1-5 lecture

**Grade Mode:** Standard Letter

**ECED 80298 RESEARCH IN EARLY CHILDHOOD EDUCATION 1-15 Credit Hours**

(Repeatable for credit) Research in ECED.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Research

**Contact Hours:** 1-15 other

**Grade Mode:** Standard Letter

## Early Childhood Education Technology (ECET)

**ECET 21005 PARTNERSHIPS IN CHILD GUIDANCE 3 Credit Hours**

(Equivalent to ECED 20104) Appropriate guidance strategies set the foundation for positive experiences our youngest children in school; patterns learned early often set a foundation for primary school entry. This course addresses the concerns of guidance, family partnerships, and inclusive schooling with preschool children and their educators. It takes a proactive stance, helping teachers develop a constructive guidance approach. There are field-based assignments in this course and 12 hours of field experience is required.

**Pre/corequisite:** ECED 10120 and ECED 20101.

**Corequisite:** ECET 22000 and ECET 22130 and ECED 30202.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ECET 21010 INFANT AND TODDLER CURRICULUM AND SERVICES 3 Credit Hours**

Infant/toddler development, environments and curriculum; theoretical perspectives; family involvement; community involvement; community resources, collaboration and advocacy; 38 hours of field experience required. Students are required to complete Bureau of Criminal Investigation and Identification (BCII) and Federal Bureau of Investigation (FBI) background checks and submit the results to authorized personnel at their assigned school/agency before the first day of the semester in which student teaching/internship will take place.

**Prerequisite:** ECED 10120 and ECED 20163.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ECET 21095 SPECIAL TOPICS IN EARLY CHILDHOOD EDUCATION TECHNOLOGY 1-3 Credit Hours**

(Repeatable for credit) Intensive study of significant current issues in the early childhood education field.

**Prerequisite:** Departmental permission.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ECET 21096 INDIVIDUAL INVESTIGATION IN EARLY CHILDHOOD EDUCATION TECHNOLOGY 1-3 Credit Hours**

(Repeatable for a maximum of 6 credit hours) Analysis and special research in the early childhood education field.

**Prerequisite:** Departmental special approval.

**Schedule Type:** Individual Investigation

**Contact Hours:** 1-3 other

**Grade Mode:** Standard Letter

**ECET 22000 PRESCHOOL CURRICULUM 3 Credit Hours**

(Equivalent to ECED 20103) In this course students will plan, implement, and evaluate developmentally appropriate content and methodology for preschool age children. This course will give students a foundation for understanding the developmental processes occurring during the preschool years and an introduction to teaching and learning in preschool. 38 field hours are required along with field-based assignments. Students are required to complete Bureau of Criminal Investigation and Identification (BCII) and Federal Bureau of Investigation (FBI) background checks and submit the results to authorized personnel at their assigned school or agency before the first day of the semester.

**Pre/corequisite:** ECED 10120 and ECED 20101.

**Corequisite:** ECET 21005 and ECET 22130 and ECED 30202.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ECET 22130 EMERGING LITERACIES 3 Credit Hours**

(Equivalent to ECED 30201) An examination of the process of language and literacy development in preschool children. The course will focus on how early childhood teachers integrate knowledge of child development with early literacy learning in the home and school environments.

**Pre/corequisite:** ECED 10120 and ECED 20101.

**Corequisite:** ECET 21005 and ECET 22000 and ECED 30202.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ECET 22140 PRESCHOOL SEMINAR FOR STUDENT TEACHING (ELR) 2 Credit Hours**

(Equivalent to ECED 40165) A reflective approach to make student teaching experience more valuable. Students develop and implement developmentally appropriate curriculum and assessment for young children. The course content will serve to extend, deepen integrate the individual student's knowledge, attitudes and skills related to the preschool competencies. The seminar is constructed around the following Teacher Education Competencies: 1. Inquiry Cycle – observation/documentation/assessment 2. Knowledge of child growth and development – typical and atypical 3. Ecological systems perspectives regarding family and family/professional collaboration 4. Planning for Student Learning 5. Curriculum, Instruction - Teaching in the Classroom 6. Professional Accountability and Responsibility -Developing Professional Skills During Student Teaching.

**Prerequisite:** ECED 10120, ECED 20101, ECET 21005, ECET 22000, ECET 22130 and ECED 30202; and special approval.

**Corequisite:** ECET 22192.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter-IP

**Attributes:** Experiential Learning Requirement

**ECET 22192 PRESCHOOL STUDENT TEACHING (ELR) 4 Credit Hours**

(Equivalent to ECED 40192, ECED 20192) Student spends 180 hours at an approved preschool program under the supervision of a program faculty member or supervising teacher. Students are required to complete certifications in AED/CPR, ALICE Training, AND Child Safety. Bureau of Criminal Investigation and Identification (BCII) and Federal Bureau of Investigation (FBI) background checks and submit the results to authorized personnel at their assigned school or agency before the first day of the semester in which student teaching or internship will take place.

**Pre/corequisite:** ECED 10120, ECED 20101, ECET 21005, ECET 22000, ECET 22130 and ECED 30202; and special approval.

**Corequisite:** ECET 22140.

**Schedule Type:** Practical Experience

**Contact Hours:** 12 other

**Grade Mode:** Satisfactory/Unsatisfactory

**Attributes:** Experiential Learning Requirement

## Economics (ECON)

**ECON 12060 PERSONAL FINANCE 3 Credit Hours**

Examines economic issues and problems of everyday life. Goal is to enable individuals to analyze their personal finances in order to learn how to get the most out of their income, increase income through a better understanding of possible investments, and protect what they have through selecting appropriate insurance. Topics covered include budgeting and financial planning, federal income taxes, insurance, borrowing, and investment principles and strategies.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ECON 22060 PRINCIPLES OF MICROECONOMICS (KSS) 3 Credit Hours**

Course discusses decision-making by buyers, sellers, and governments and how their interaction affects market determination of prices. Students compare outcomes and firm decisions in different market structures. Students develop tools to examine social problems such as poverty, crime, pollution and international relations, as well as make better decisions in their own lives.

**Prerequisite:** Minimum 45 ALEKS math score; or minimum 22 ACT math score; or minimum 530 SAT math score; or MATH 00023 or any higher level MATH course.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Kent Core Social Sciences, TAG Social and Behavioral Sciences, Transfer Module Social Sciences

**ECON 22061 PRINCIPLES OF MACROECONOMICS (KSS) 3 Credit Hours**

Principles and policies affecting aggregate production, consumption, investment and government expenditures. Includes role of money, the banking system, inflation, unemployment and economic growth.

**Prerequisite:** ECON 22060.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Kent Core Social Sciences, TAG Social and Behavioral Sciences, Transfer Module Social Sciences

**ECON 32025 MONEY, CREDIT AND BANKING 3 Credit Hours**

Organization of our money, credit and banking system principles and problems of monetary policy.

**Prerequisite:** ECON 22060 and 22061.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ECON 32040 INTERMEDIATE MICROECONOMIC THEORY AND APPLICATIONS 3 Credit Hours**

The study of individual choices under conditions of relative scarcity, and their consequences for prices and the allocation of resources in the economic system. Develops the analytical and theoretical tools pertinent in determining how scarce resources are allocated among competing wants and demonstrates how these tools are used in real world applications.

**Prerequisite:** ECON 22060 and 22061.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ECON 32041 INTERMEDIATE MACROECONOMIC THEORY AND POLICY 3 Credit Hours**

This course analyzes key drivers of an economy's GDP, consumption, investment and interest rates. The class will examine economic growth and how it can be impacted by public policy. Students will understand the uses and limitations of a macroeconomic model and will be exposed to the two main schools of thought in macroeconomics. National and international data will be used to better understand these concepts.

**Prerequisite:** ECON 22060 and 22061.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ECON 32050 APPLIED ECONOMETRICS I (ELR) 3 Credit Hours**

The course provides an introduction to the use of statistical analysis in economics. The initial part of the course reviews relevant concepts from probability and statistics. The second course segment focuses on linear regression analysis and the properties of regression estimators. The final course segment discusses extensions of the linear model, and considers problems that may arise in application including omitted variables, nonlinearity, measurement error, sample selection, heteroscedasticity and causality. The SAS statistical software package is used throughout the course for data analysis. Over the second half of the course, students complete an empirical project which requires students to connect the course concepts to the analysis of an economic policy question in a real world data set.

**Prerequisite:** MATH 11012 or MATH 12002; and ECON 22060; and MGMT 24056 or MATH 10041 or MATH 20011.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Experiential Learning Requirement

**ECON 32051 APPLIED ECONOMETRICS II 3 Credit Hours**

The course provides a continuation of Applied Econometrics I, extending the basic linear regression models to more advanced models using cross-sectional, panel or time series data. The initial part of the course focuses on models for discrete and limited dependent variables. The second course segment addresses estimation methods for panel data. The final course segment provides an overview of time series estimation with an emphasis on forecasting in economic data.

**Prerequisite:** ECON 32050.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ECON 32070 LABOR PROBLEMS 3 Credit Hours**

Surveys of the major institutions, features and functioning of the labor market as well as some of its outstanding problems. Does not count toward economics major or minor. Not open to students who have completed ECON 42072.

**Prerequisite:** ECON 22060 and 22061.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ECON 32082 INTRODUCTION TO MANAGERIAL ECONOMICS 3 Credit Hours**

Combines economic theory and quantitative analysis to develop resource-allocation decision-making skills which enable managers to evaluate problems, identify possible solutions and finally implement and monitor the best alternative to accomplish their stated objectives. Covers such topics as supply and demand, consumer theory, production, costs, contracts, game theory, principal-agent problems, and the basic economic models of perfect competition, oligopoly, monopolistic competition and monopoly. Cannot be taken by economics majors. Not open to students who have completed ECON 32040.

**Prerequisite:** ECON 22060.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter



**ECON 32083 THE ECONOMICS OF POVERTY (DIVD) 3 Credit Hours**

Nature and causes of poverty in United States. Analysis of impact of poverty upon economy and study of measures both real and potential for alleviating it.

**Prerequisite:** ECON 22060.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Diversity Domestic

**ECON 32084 ECONOMICS OF THE ENVIRONMENT 3 Credit Hours**

Examines economic theory of environmental and resource economics in a fashion that is understandable by students with varied backgrounds in economics. Emphasis on microeconomic theory and its application to environmental issues. Topics covered include 'market failure' and its impact on the environment; cost benefit analysis; and input-output analysis. Designed for those interested in the environment or who may be planning careers in environmental or natural sciences.

**Prerequisite:** ECON 22060.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ECON 42050 DATA ACQUISITION, PREPARATION AND VISUALIZATION 3 Credit Hours**

(Slashed with ECON 52050) Accessing and collecting data from existing sources (databases and raw data), transformation of raw data into formats that can be used for final analysis, techniques for presentation and visualization of data, predictive analytics using machine learning and cross validation. Students will perform some work in SAS but will also be introduced to the R statistical language.

**Prerequisite:** MGMT 24056.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ECON 42065 PROBLEMS OF MONETARY AND FISCAL POLICY 3 Credit Hours**

Analysis of objectives, techniques and economic effects of monetary and fiscal policies.

**Prerequisite:** ECON 32041.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ECON 42066 ECONOMICS OF ENTREPRENEURSHIP 3 Credit Hours**

(Slashed with ECON 52066) This course presents a wide-ranging overview of the place of economics in entrepreneurship, with a special focus on how economic research is conducted to study the determinants of entrepreneurship.

**Prerequisite:** ECON 22060.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ECON 42068 INDUSTRIAL ORGANIZATION: FIRMS AND STRATEGY 3 Credit Hours**

(Slashed with ECON 52068) Theoretical, empirical and critical examination of structure, operation and performance of industrial markets in American economy.

**Prerequisite:** ECON 32040.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ECON 42070 GAME THEORY 3 Credit Hours**

Introduction to game theory and its application to economics. Analysis of strategic behavior by economic agents using equilibrium concepts from non-cooperative game theory.

**Prerequisite:** ECON 22060 and ECON 22061.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ECON 42072 LABOR ECONOMICS: WORK AND PAY 3 Credit Hours**

(Slashed with ECON 52072) The economic analysis of the decisions of workers and firms in determination of wages and employment.

Topics include labor supply decisions, marginal productivity theory, discrimination, demand for education, effects of trade unions, immigration and growing wage inequality.

**Prerequisite:** ECON 32040.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ECON 42075 INTERNATIONAL ECONOMIC RELATIONS 3 Credit Hours**

Principles, problems and policies of international economic relations with extensive references to the United States, Western Europe, Latin America and former communist countries. Covers international aspects of interdependency, cooperation and multinational institutions.

**Prerequisite:** ECON 22060 and 22061.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ECON 42076 ECONOMIC DEVELOPMENT 3 Credit Hours**

(Slashed with ECON 52076) Analysis of nature of significance of barriers to and future potential for economic development of a nation. Special emphasis on theories and strategic factors pertaining to economic growth.

**Prerequisite:** ECON 22060 and 22061.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ECON 42079 EUROPEAN ECONOMIC ISSUES 3 Credit Hours**

(Slashed with ECON 52079) This course examines current economic issues in the European Union, including the monetary union and Euro, unemployment, immigration, health care, social security, poverty and inequality, and plans for expansion. The historical development and structure of the EU will also be covered and the role of cultural influences will be explored. In some semesters the course includes a required trip to visit European institutions over the Spring Break, at an additional fee.

**Prerequisite:** ECON 22060 and ECON 22061; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ECON 42080 REGIONAL ECONOMICS 3 Credit Hours**

(Slashed with ECON 52080) Examines techniques of regional economic analysis to promote understanding of interregional disparities in developed nations and suggests policy alternatives for alleviating problems arising from disparities.

**Prerequisite:** ECON 22060 and 22061.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter



**ECON 42081 URBAN ECONOMICS: CITIES AND HOUSING 3 Credit Hours**

(Slashed with ECON 52081) Application of economic principles to urban spatial patterns, economic development and public policy in housing, transportation, pollution, welfare, etc.

**Prerequisite:** ECON 22060 and 22061.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ECON 42085 PUBLIC ECONOMICS: GOVERNMENT AND POLICY 3 Credit Hours**

(Slashed with ECON 52085) Examination of the role of government in the economy, including market failures, the efficiency and equity of taxation, government involvement in health care, education, and income distribution, and current government policy issues.

**Prerequisite:** ECON 22060.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ECON 42086 ECONOMICS OF HEALTH CARE 3 Credit Hours**

(Slashed with ECON 52086) Overall objective is to use economic analysis to understand and evaluate what has and is happening to the health care profession and current health care policies under consideration. Topics include issues such as Medicare, health care reform, HMOs and increasing costs in health care.

**Prerequisite:** ECON 22060.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ECON 42187 INTERNATIONAL ECONOMIC EXPERIENCE 3 Credit Hours**

Firsthand exposure to international economics. Includes pre-trip orientation sessions, visits to international businesses and organizations, and opportunities for cultural activities.

**Prerequisite:** Economics major or minor; and junior standing; and special approval.

**Schedule Type:** Field Experience

**Contact Hours:** 9 other

**Grade Mode:** Standard Letter

**ECON 42191 SENIOR SEMINAR IN ECONOMICS (WIC) 3 Credit Hours**

Advanced investigation of selected topics in economic analysis and issues in economic policy.

**Prerequisite:** ECON 32050, ECON 32040 and ECON 32041 with a minimum C- grade.

**Schedule Type:** Seminar

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**Attributes:** Writing Intensive Course

**ECON 42291 VARIABLE CONTENT SEMINAR IN ECONOMICS 1-4 Credit Hours**

(Repeatable for a maximum of 12 hours) (Slashed with ECON 52291) Various special seminars will be announced in the schedule of classes under this course number.

**Prerequisite:** Permission.

**Schedule Type:** Seminar

**Contact Hours:** 1-4 other

**Grade Mode:** Standard Letter

**ECON 42292 INTERNSHIP IN ECONOMICS (ELR) 3 Credit Hours**

(Repeatable for credit) Supervised practical experience in economics. May count toward the economics major electives or as a business elective.

**Prerequisite:** At least two of the following courses: ECON 32040, ECON 32041 or ECON 32050; a minimum 2.250 overall GPA; and economics major; and special approval.

**Schedule Type:** Practical Experience

**Contact Hours:** 9 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**Attributes:** Experiential Learning Requirement

**ECON 42293 VARIABLE TOPIC WORKSHOP IN ECONOMICS 1-6 Credit Hours**

(Repeated registration permitted when topic varies; repeatable for a total of 18 hours) various special workshops will be announced in the schedule of classes under this course number.

**Prerequisite:** Permission.

**Schedule Type:** Workshop

**Contact Hours:** 1-6 other

**Grade Mode:** Satisfactory/Unsatisfactory

**ECON 42295 SPECIAL TOPICS IN ECONOMICS 3 Credit Hours**

(Repeatable for a maximum of 9 credit hours) (Slashed with ECON 52295) Various special topics will be announced in the schedule of classes under this course number.

**Prerequisite:** Special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ECON 42296 INDIVIDUAL INVESTIGATION IN ECONOMICS 1-3 Credit Hours**

(Repeatable for credit) Independent study done under the supervision of a faculty member. Written approval of supervising faculty member and department chair required prior to registration.

**Prerequisite:** Senior Economics major; and special approval.

**Schedule Type:** Individual Investigation

**Contact Hours:** 1-3 other

**Grade Mode:** Standard Letter-IP

**ECON 42297 VARIABLE TOPIC COLLOQUIUM IN ECONOMICS 1-3 Credit Hours**

(Repeated registration permitted when topic varies; Repeatable for a total of 9 hours) Various special colloquia will be announced in the schedule of classes under this number.

**Prerequisite:** Permission.

**Schedule Type:** Colloquium

**Contact Hours:** 1-3 other

**Grade Mode:** Standard Letter

**ECON 42298 RESEARCH IN ECONOMICS (ELR) 1-6 Credit Hours**

(Repeatable for credit) Research project done under the supervision of a faculty member. Written approval of supervising faculty member and department chair required prior to registration.

**Prerequisite:** Senior Economics major; and special approval.

**Schedule Type:** Research

**Contact Hours:** 1-6 other

**Grade Mode:** Standard Letter-IP

**Attributes:** Experiential Learning Requirement

**ECON 42299 SENIOR PROJECT (ELR) 1-3 Credit Hours**

(Repeatable for credit) Thesis or independent study project done under the supervision of a faculty member. Written approval of supervising faculty member and department chair required prior to registration.

**Prerequisite:** Senior economics major; and special approval.

**Schedule Type:** Senior Project/Honors Thesis

**Contact Hours:** 1-3 other

**Grade Mode:** Standard Letter-IP

**Attributes:** Experiential Learning Requirement

**ECON 52050 DATA ACQUISITION, PREPARATION AND VISUALIZATION 3 Credit Hours**

(Slashed with ECON 42050) Accessing and collecting data from existing sources (databases and raw data), transformation of raw data into formats that can be used for final analysis, techniques for presentation and visualization of data, predictive analytics using machine learning and cross validation. Students will perform some work in SAS but will also be introduced to the R statistical language.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ECON 52065 PROBLEMS OF MONETARY AND FISCAL POLICY 3 Credit Hours**

Analysis of objectives, techniques and economic effects of monetary and fiscal policies.

**Prerequisite:** ECON 32041 or ECON 62021; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ECON 52066 ECONOMICS OF ENTREPRENEURSHIP 3 Credit Hours**

(Slashed with ECON 42066) This course presents a wide-ranging overview of the place of economics in entrepreneurship, with a special focus on how economic research is conducted to study the determinants of entrepreneurship.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ECON 52068 INDUSTRIAL ORGANIZATION: FIRMS AND STRATEGY 3 Credit Hours**

(Slashed with ECON 42068) Theoretical, empirical and critical examination of structure, operation and performance of industrial markets in American economy.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ECON 52072 LABOR ECONOMICS: WORK AND PAY 3 Credit Hours**

(Slashed with ECON 42072) The economic analysis of the decisions of workers and firms in determination of wages and employment.

Topics include labor supply decisions, marginal productivity theory, discrimination, demand for education, effects of trade unions, immigration and growing wage inequality. For students that did not attend Kent State University for their undergraduate degree, please contact the department for approval.

**Prerequisite:** ECON 32040; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ECON 52076 ECONOMIC DEVELOPMENT 3 Credit Hours**

(Slashed with ECON 42076) Analysis of nature and significance of barriers to and future potential for economic development of a nation. Special emphasis on theories and strategic factors pertaining to economic growth.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ECON 52079 EUROPEAN ECONOMIC ISSUES 3 Credit Hours**

(Slashed with ECON 42079) This course examines current economic issues in the European Issues, including the monetary union and Euro, unemployment, immigration, health care, social security, poverty and inequality, and plans for expansion. The historical development and structure of the EU are also covered and the role of cultural influences are explored. In some semesters the course includes a required trip to visit European institutions over the Spring Break, at an additional fee.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ECON 52080 REGIONAL ECONOMICS 3 Credit Hours**

(Slashed with ECON 42080) Examines techniques of regional economic analysis to promote understanding of interregional disparities in developed nations and suggests policy alternatives for alleviating problems arising from disparities.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ECON 52081 URBAN ECONOMICS: CITIES AND HOUSING 3 Credit Hours**

(Slashed with ECON 42081) Application of economic principles to urban spatial patterns, economic development, and public policy in housing, transportation, pollution, welfare, etc.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ECON 52085 PUBLIC ECONOMICS: GOVERNMENT AND POLICY 3 Credit Hours**

(Slashed with ECON 42085) Examination of public expenditure and taxation policies including the theory of public goods, collective decision making, cost-benefit analysis, equity and efficiency aspects of taxation and current government policy issues.

**Prerequisite:** ECON 22060; and Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ECON 52086 ECONOMICS OF HEALTH CARE 3 Credit Hours**

(Slashed with ECON 42086) Overall objective is to use economic analysis to understand and evaluate what has and is happening to the health care profession and current health care policies under consideration. Topics include issues such as Medicare, health care reform, HMO's and increasing costs in health care.

**Prerequisite:** ECON 62022; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ECON 52187 INTERNATIONAL ECONOMICS EXPERIENCE 3 Credit Hours**

(Slashed with ECON 42187) Firsthand exposure to international economics. Includes pre-trip orientation sessions, visits to international business and organizations, and opportunities for cultural activities.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Field Experience

**Contact Hours:** 9 other

**Grade Mode:** Standard Letter

**ECON 52291 VARIABLE CONTENT SEMINAR IN ECONOMICS 1-4 Credit Hours**

(Repeatable for a maximum of 12 credit hours) (Slashed with ECON 42291) Various special seminars will be announced in the schedule of classes under this course number.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Seminar

**Contact Hours:** 1-4 other

**Grade Mode:** Standard Letter

**ECON 52293 VARIABLE TOPIC WORKSHOP IN ECONOMICS 1-6 Credit Hours**

(Repeatable for a maximum of 18 credit hours) Various special workshops will be announced in the schedule of classes under this course number.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Workshop

**Contact Hours:** 1-6 other

**Grade Mode:** Satisfactory/Unsatisfactory

**ECON 52295 SPECIAL TOPICS IN ECONOMICS 3 Credit Hours**

(Repeatable for a maximum of 9 credit hours) (Slashed with ECON 42295) Various special topics will be announced in the schedule of classes under this course number.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ECON 52297 VARIABLE TOPIC COLLOQUIUM IN ECONOMICS 1-3 Credit Hours**

(Repeatable for a maximum of 9 credit hours) Various special colloquia will be announced in the schedule of classes under this number.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Colloquium

**Contact Hours:** 1-3 other

**Grade Mode:** Standard Letter

**ECON 60199 THESIS I 2-6 Credit Hours**

(Repeatable for credit) Thesis students must register for a total of 6 hours, 2 to 6 hours in a single semester distributed over several semesters if desired.

**Prerequisite:** Graduate standing.

**Schedule Type:** Masters Thesis

**Contact Hours:** 2-6 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**ECON 60299 THESIS II 2 Credit Hours**

Thesis students must continue registration each semester until all degree requirements are met.

**Prerequisite:** ECON 60199; and graduate standing.

**Schedule Type:** Masters Thesis

**Contact Hours:** 2 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**ECON 62010 SURVEY OF ECONOMICS 3 Credit Hours**

Survey of basic economic concepts and methods of analysis of both micro- and macroeconomics. Emphasis is placed on the use and relevance of economic concepts and tools in business decision-making.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ECON 62015 ECONOMICS OF INFORMATION 3 Credit Hours**

Introduction to microeconomic theory and decision-making and its applications to the information economy. Overview of the economics of information. Consumer behavior and production theory; the demand for information; information as a factor of production; information costs and pricing. Case studies in the information industry.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ECON 62021 GLOBAL CONDITIONS AND MACROECONOMICS POLICY 2 Credit Hours**

(Slashed with ECON 72021) Analysis of forces determining economic growth, employment, inflation and global economic environment with emphasis on understanding the business cycle and government stabilization policies.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**ECON 62022 MANAGERIAL ECONOMICS 2 Credit Hours**

(Slashed with ECON 72022) Uses economic theory and quantitative methodologies to develop decision-making skills which enable managers of local, national and multinational companies to evaluate problems and allocate resources efficiently.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**ECON 62050 MICROECONOMIC THEORY I 3 Credit Hours**

(Slashed with ECON 72050) Comprehensive analysis of methodology of economics, consumer behavior production and costs the firm, markets and welfare economics. (It would be useful if the student had some facility in integral and differential calculus)

**Prerequisite:** ECON 62022; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ECON 62051 MACROECONOMIC THEORY I 3 Credit Hours**

(Slashed with ECON 72051) Analysis of the determination of the level of income, employment inflation economic growth consumption investment money demand and supply the international sector and economic policy are discussed.

**Prerequisite:** ECON 62021 and ECON 62022; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ECON 62054 ECONOMETRICS I 3 Credit Hours**

(Slashed with ECON 72054) Introduction to problems and methods of the empirical estimation of economic relationships.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ECON 62055 ECONOMETRICS II 3 Credit Hours**

(Slashed with ECON 72055) Covers generalized linear regression, mixed estimation, simultaneous equation systems, their identification and estimation by single equation and systems estimation.

**Prerequisite:** ECON 62054; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ECON 62056 TIME SERIES ANALYSIS 3 Credit Hours**

Covers various linear and non-linear time series models, market risk and value at risk (VAR). Students will gain hands on-experience with all models learned in the course. This course uses advanced analytical software and hardware on the financial engineering trading floor.

**Prerequisite:** Graduate standing; and special approval of instructor.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ECON 62061 MONETARY THEORY AND POLICY 3 Credit Hours**

(Slashed with ECON 72061) A study of the nature and definition of money, its relationship to prices, output, employment, and interest rates and problems related to the conduct of monetary policy.

**Prerequisite:** ECON 62021; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ECON 62072 ECONOMICS OF LABOR MARKETS 3 Credit Hours**

The economic analysis of the decisions of workers and firms in determination of wages and employment. Topics include labor supply decisions, marginal productivity theory, discrimination, demand for education, effects of trade unions, immigration and wage inequality.

**Prerequisite:** ECON 32040 or ECON 62022; and ECON 62054 or MIS 84023; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ECON 62075 INTERNATIONAL TRADE 3 Credit Hours**

(Slashed with ECON 72075) Study of modern international trade theory and policy, including free trade areas, international trade organizations, current issues in international trade and the effect of international trade on domestic policy.

**Prerequisite:** ECON 62021 and ECON 62022; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ECON 62076 INTERNATIONAL FINANCE 3 Credit Hours**

(Slashed with ECON 72076) Study of the international monetary relations between nations, including the determination of exchange rates, managed exchange rate policies, balance of payments crises, optimum currency areas, and international capital flows.

**Prerequisite:** ECON 62021; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ECON 62077 ECONOMIC PROBLEMS OF DEVELOPING AREAS 3 Credit Hours**

In-depth analysis of selected topics and issues in development economics.

**Prerequisite:** ECON 52076; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ECON 62092 INTERNSHIP IN ECONOMICS 3 Credit Hours**

(Repeatable for credit) Supervised practical experience in economics. Students must have a minimum 3.000 GPA in the economics major within the MAE degree and completed 4 courses from the MAE.

**Prerequisite:** Admitted to the Master of Arts in Economics program; and special approval.

**Schedule Type:** Practical Experience

**Contact Hours:** 3 other

**Grade Mode:** Satisfactory/Unsatisfactory

**ECON 62095 SPECIAL TOPICS IN ECONOMICS 3 Credit Hours**

(Repeatable 3 times for credit) Various special topics will be announced in the Schedule of Classes under this course number.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ECON 62096 INDEPENDENT STUDY 1-3 Credit Hours**

(Repeatable for credit) Independent study on a particular project or sequence of subjects. Maximum of 6 semester hours of work may be earned in independent study although no more than 3 hours in any one semester.

**Prerequisite:** Graduation standing; and special approval.

**Schedule Type:** Individual Investigation

**Contact Hours:** 1-3 other

**Grade Mode:** Standard Letter-IP

**ECON 62098 RESEARCH 1-15 Credit Hours**

(Repeatable for credit) Research for master's students. May apply toward degree requirements if approved in advance by department.

**Prerequisite:** Graduate standing.

**Schedule Type:** Research

**Contact Hours:** 1-15 other

**Grade Mode:** Standard Letter

**ECON 62180 REGIONAL ECONOMICS 3 Credit Hours**

Examines techniques of regional economic analysis with the object of promoting understanding of interregional disparities in developed nations and policies for alleviating problems arising from disparities.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ECON 62199 THESIS I 2-6 Credit Hours**

Thesis students must register for total of 6 hours, 2 to 6 hours in a single semester, distributed over several semesters if desired.

**Prerequisite:** Graduate standing and special approval of adviser.

**Schedule Type:** Masters Thesis

**Contact Hours:** 2-6 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**ECON 62299 THESIS II 2 Credit Hours**

Thesis students must continue registration each semester until all degree requirements are met.

**Prerequisite:** ECON 62199; and graduate standing.

**Schedule Type:** Masters Thesis

**Contact Hours:** 2 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**ECON 64004 QUANTITATIVE METHODS IN BUSINESS****ADMINISTRATION I 3 Credit Hours**

(Slashed with ECON 74004) Introduction to fundamentals of matrix algebra, differential calculus and linear programming. Both algebraic and transcendental functions are included in discussion.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ECON 72021 GLOBAL CONDITIONS AND MACROECONOMIC POLICY ANALYSIS 2 Credit Hours**

(Slashed with ECON 62021) Analysis of forces determining economic growth, employment, inflation and global economic environment with emphasis on understanding the business cycle and government stabilization policies.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**ECON 72022 MANAGERIAL ECONOMICS 2 Credit Hours**

(Slashed with ECON 62022) Uses economic theory and quantitative methodologies to develop decision-making skills which enable managers to evaluate problems and allocate resources efficiently.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**ECON 72050 MICROECONOMIC THEORY I 3 Credit Hours**

(Slashed with ECON 62050) Comprehensive analysis of methodology of economics, consumer behavior, production and costs, the firm, markets and welfare economics. It would be useful if the student had some facility in integral and differential calculus.

**Prerequisite:** ECON 62022; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ECON 72051 MACROECONOMIC THEORY I 3 Credit Hours**

(Slashed with ECON 62051) Analysis of the determination of the level of income, employment, inflation, economic growth, consumption, investment, money demand and supply, the international sector and economic policy are discussed.

**Prerequisite:** ECON 62021 and ECON 62022; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ECON 72054 ECONOMETRICS I 3 Credit Hours**

(Slashed with ECON 62054) Introduction to problems and methods of the empirical estimation of economic relationships.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ECON 72055 ECONOMETRICS II 3 Credit Hours**

(Slashed with ECON 62055) Covers generalized linear regression, mixed estimation, simultaneous equation systems, their identification and estimation by single equation and systems estimation.

**Prerequisite:** ECON 62054; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ECON 72056 TIME SERIES ANALYSIS 3 Credit Hours**

Covers various linear and nonlinear time series models, market risk and value at risk (VAR). Students will gain hands on-experience with all models learned in the course. This course uses advanced analytical software and hardware on the financial engineering trading floor.

**Prerequisite:** Doctoral standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ECON 72061 MONETARY THEORY AND POLICY 3 Credit Hours**

(Slashed with ECON 62061) A study of the nature and definition of money, its relationship to prices, output, employment, and interest rates and, problems related to the conduct of monetary policy.

**Prerequisite:** ECON 62021; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ECON 72075 INTERNATIONAL TRADE 3 Credit Hours**

(Slashed with ECON 62075) Study of modern international trade theory and policy, including free trade areas, international trade organizations, current issues in international trade and the effect of international trade on domestic policy.

**Prerequisite:** ECON 62021 and ECON 62022; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ECON 72076 INTERNATIONAL FINANCE 3 Credit Hours**

(Slashed with ECON 62076) Study of the international monetary relations between nations, including the determination of exchange rates, managed exchange rate policies, balance of payments crises, optimum currency areas and, international capital flows.

**Prerequisite:** ECON 62021; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ECON 72180 REGIONAL ECONOMICS 3 Credit Hours**

Examines techniques of regional economic analysis with the object of promoting understanding of interregional disparities in developed nations and policies for alleviating problems arising from disparities.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter



**ECON 74004 QUANTITATIVE METHODS IN BUSINESS  
ADMINISTRATION I 3 Credit Hours**

(Slashed with ECON 64004) Introduction to fundamentals of matrix algebra, differential calculus and linear programming. Both algebraic and transcendental functions are included in discussion.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ECON 82024 SEMINAR IN APPLIED ECONOMIC ANALYSIS 3 Credit Hours**

Discussion and analysis of selected current economic problems confronting the economy and the business sector. Emphasis will be on applied analysis.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Seminar

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ECON 82072 ECONOMICS OF LABOR MARKETS 3 Credit Hours**

The economic analysis of the decisions of workers and firms in determination of wages and employment. Topics include labor supply decisions, marginal productivity theory, discrimination, demand for education, effects of trade unions, immigration and wage inequality.

**Prerequisite:** ECON 32040 or ECON 62022; and ECON 62054 or MIS 84023; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

## Education, Health and Human Services (EHHS)

**EHHS 10095 SPECIAL TOPICS IN EDUCATION, HEALTH AND HUMAN SERVICES 1-4 Credit Hours**

(Repeatable for credit) Selected topics intended to encourage interdisciplinary study to cover areas not treated adequately in traditional coursework and to make available promptly the new and significant experience of faculty within the College of Education, Health and Human Services.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 1-4 lecture

**Grade Mode:** Standard Letter

**EHHS 10729 ACHIEVING ACADEMIC SUCCESS 1 Credit Hour**

The purpose of this course is to help students who are on academic probation to develop and apply critical thinking skills, and continue to clarify their purpose, meaning, and direction. The goal of this course is to help students improve their academic standing as quickly as possible.

**Prerequisite:** Any major in the College of Education, Health and Human Services (EHHS).

**Schedule Type:** Lecture

**Contact Hours:** 1 lecture

**Grade Mode:** Standard Letter

**EHHS 12017 EXPLORING PROFESSIONAL LITERACY PRACTICES 3 Credit Hours**

Students will explore and develop the literacy practices necessary for success in college and careers in education, health and human services.

**Prerequisite:** Special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**EHHS 20092 PRACTICAL EXPERIENCE IN EDUCATION, HEALTH AND HUMAN SERVICES (ELR) 1-12 Credit Hours**

(Repeatable for credit) Supervised work experiences that are integrated with academic instruction and related to student's occupational goal.

**Prerequisite:** Special approval.

**Schedule Type:** Practical Experience

**Contact Hours:** 3-36 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**Attributes:** Experiential Learning Requirement

**EHHS 40092 PRACTICAL EXPERIENCE IN EDUCATION, HEALTH AND HUMAN SERVICES (ELR) 1-6 Credit Hours**

Supervised work experiences that are integrated with academic instruction and related to student's occupational goal.

**Prerequisite:** Special approval.

**Schedule Type:** Practical Experience

**Contact Hours:** 3-18 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**Attributes:** Experiential Learning Requirement

**EHHS 49592 STUDENT TEACHING IN HEALTH AND PHYSICAL EDUCATION (ELR) 10 Credit Hours**

Full-time student teaching, which includes a balanced experience in elementary and secondary health and physical education. Students are required to complete Bureau of Criminal Investigation and Identification (BCII) and Federal Bureau of Investigation (FBI) background checks and submit the results to authorized personnel at their assigned school-agency before the first day of the semester in which student teaching internship will take place. To enroll, students must have official valid certification of child safety training, approved basic life support and ALICE training presented to the campus office of clinical experience or designated faculty-staff at regional campuses.

**Prerequisite:** EPSY 29525 and ETEC 39525; and meets eligibility for student teaching.

**Corequisite:** HED 49525 and PESP 49525.

**Schedule Type:** Practical Experience

**Contact Hours:** 45 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**Attributes:** Experiential Learning Requirement

**EHHS 50092 PRACTICAL EXPERIENCE IN EDUCATION, HEALTH AND HUMAN SERVICES 1-6 Credit Hours**

(Repeatable for credit) Supervised work experiences that are integrated with academic instruction and related to student's occupational goal.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Practical Experience

**Contact Hours:** 3-18 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**EHHS 50093 VARIABLE TOPIC WORKSHOP IN EDUCATION, HEALTH AND HUMAN SERVICES 1-3 Credit Hours**

(Repeatable for credit) Variable topics; designed to respond to specialized needs of various groups within the context of trends issues and problems in the area education, health and human services.

**Prerequisite:** Graduate standing.

**Schedule Type:** Workshop

**Contact Hours:** 1-3 lecture

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**EHHS 75001 SYSTEMS THINKING IN PERSONAL AND PROFESSIONAL LEADERSHIP 3 Credit Hours**

The development of personal and professional leadership characteristics and traits through a self-examination and in-depth examination of the literature. Students will develop an understanding of the role leadership plays in complex systems through the application of systems thinking concepts. The course will focus on the importance of personal and professional leadership in systems thinking and organizational change.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**EHHS 75501 THEORY AND PRACTICE OF LEADERSHIP 3 Credit Hours**

Theoretical perspectives on leadership as a foundation for effective practice in a range of educational settings. Contemporary, evidence-based research will support the integration and synthesis of leadership theory in practice. Leadership theory, myths, traits, models, strategies and assessment tools for leadership will be infused for a historical and comprehensive approach to leadership as an essential construct in education.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**EHHS 75502 ETHICAL LEADERSHIP IN EDUCATION 3 Credit Hours**

Education is constantly undergoing change and ethical leadership in uncertain times is paramount. This course will discuss ethical elements of educational leadership in all settings in a case approach to connect ethical leadership theory to educational practice. It will blend ethical theory, leadership theory and case-analysis in a critical thinking based framework to position educational leaders to grapple with the complexities of contemporary ethical issues. Political, cultural, societal, organizational, and other forces on education will be evaluated through an ethical lens.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**EHHS 81099 CAPSTONE I 1-9 Credit Hours**

(Repeatable for credit) The capstone will operate as a "dissertation in practice," focusing on a problem of practice and using either action research or improvement science as a methodology. Students' research will be aligned with the needs of their organizations, useful to their organizations and intended to effect positive change in their organizations. The research will culminate in a scholarly, comprehensive paper or project that integrates knowledge attained through coursework and research. Registration of course is required in at least two semesters, first of which will be the semester in which capstone work is began, and continuing until completion of 18 credit hours.

**Prerequisite:** Doctoral standing; and special approval.

**Schedule Type:** Project or Capstone

**Contact Hours:** 1-9 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**EHHS 82099 CAPSTONE II 1-9 Credit Hours**

(Repeatable for credit) Continuation of EHHS 81099. Continuous registration required for students who have completed 18 credit hours of EHHS 81099 and until all degree requirements are met.

**Prerequisite:** Doctoral standing; and special approval.

**Schedule Type:** Project or Capstone

**Contact Hours:** 1-9 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

## Educational Leadership K-12 (EDLE)

**EDLE 40093 VARIABLE TITLE WORKSHOP IN EDUCATIONAL ADMINISTRATION 1-5 Credit Hours**

(Repeatable for credit) (Slashed with EDLE 50093 and EDLE 70093)

**Prerequisite:** None.

**Schedule Type:** Workshop

**Contact Hours:** 1-5 other

**Grade Mode:** Satisfactory/Unsatisfactory

**EDLE 50093 VARIABLE TITLE WORKSHOP IN EDUCATIONAL ADMINISTRATION 1-5 Credit Hours**

(Repeatable for credit) (Slashed with EDLE 40093 and EDLE 70093) Variable title workshop in educational administration.

**Prerequisite:** Graduate standing.

**Schedule Type:** Workshop

**Contact Hours:** 1-5 other

**Grade Mode:** Satisfactory/Unsatisfactory

**EDLE 60199 THESIS I 2-6 Credit Hours**

Thesis students must register for a total of 6 hours, 2 to 6 hours in a single semester distributed over several semesters if desired.

**Prerequisite:** Graduate standing.

**Schedule Type:** Masters Thesis

**Contact Hours:** 2-6 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**EDLE 60299 THESIS II 2 Credit Hours**

Thesis students must continue registration each semester until all degree requirements are met.

**Prerequisite:** EDLE 60199; and graduate standing.

**Schedule Type:** Masters Thesis

**Contact Hours:** 2 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**EDLE 66492 INTERNSHIP IN EDUCATIONAL ADMINISTRATION 3-6 Credit Hours**

(Repeatable for a maximum of 6 credit hours) (Slashed with EDLE 76492) A field-based internship utilizing an inquiry-based learning model, requiring projects as designated by the program area faculty. Specific topics are outlined and shared at meetings prior to beginning internship. Students are required to complete Bureau of Criminal Investigation and Identification (BCII) and Federal Bureau of Investigation (FBI) background checks and submit the results to authorized personnel at their assigned school-agency before the first day of the semester in which student teaching internship will take place.

**Prerequisite:** Graduate standing.

**Schedule Type:** Practical Experience

**Contact Hours:** 10-20 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**EDLE 66515 FACILITIES PLANNING AND ADMINISTRATION 3 Credit Hours**

(Slashed with EDLE 76515) Overview of facilities planning and administration, including architectural/ construction management, the educational program, restoration and maintenance.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**EDLE 66517 ADMINISTRATION AND SUPERVISION OF SPECIAL EDUCATION 3 Credit Hours**

(Slashed with EDLE 76517) Administration of educational programs for exceptional children: improvement of teacher competencies; function of special education supervisors; and special education operations at a local, state and national level.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**EDLE 66518 SCHOOL AND SPECIAL EDUCATION LAW 3 Credit Hours**

(Slashed with EDLE 76518) Constitutional, statutory, and case law involving schools, special and regular education students, administrators, parents and others are studied.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**EDLE 66520 SCHOOL LAW FOR TEACHERS AND PRINCIPALS 3 Credit Hours**

(Slashed with EDLE 76520) Selected principles of constitutional, statutory case and common law affecting the administration of schools generally and Ohio schools specifically.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**EDLE 66522 PUBLIC SCHOOL FINANCE AND ECONOMICS 3 Credit Hours**

(Slashed with EDLE 76522) Analysis of national, state and local problems of collection custody and expenditure of public school funds.

**Prerequisite:** EDLE 66526; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**EDLE 66525 THE EDUCATIONAL PRINCIPALSHIP 3 Credit Hours**

(Slashed with EDLE 76525) Organizing and administering elementary, middle level and secondary schools.

**Prerequisite:** EDLE 66526 or EDLE 76526; 16 hrs of EDLE; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**EDLE 66526 FUNDAMENTALS OF EDUCATIONAL ADMINISTRATION 3 Credit Hours**

(Slashed with EDLE 76526) Examines theory and practice essential for administration. Skills and understanding are developed in theory goal setting staff development.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**EDLE 66527 SCHOOL FINANCE FOR BUILDING ADMINISTRATORS 3 Credit Hours**

(Slashed with EDLE 76527) Identification of the responsibilities of the school building administrator related to all financial operations in the school building; included are the budget process and development, student accounts, the purchase order process and fund raising and school groups.

**Prerequisite:** Major in Educational Leadership K-12, Higher Education Administration and Student Affairs or Higher Education Administration; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**EDLE 66529 LEADING FOR SOCIAL JUSTICE 3 Credit Hours**

(Slashed with EDLE 76529) Centers on investigating a broad research agenda on leading for social justice within educational leadership.

Provides a context for candidates to establish strong connections between what it means to lead and the primary concerns for learning and equity, which are associated with increased performance and effectiveness for American education. Candidates engage in concepts such as equity audits, border culture, hegemony, moral transformation and other concepts aligned with leading 21st century schools. Such concepts encourage school leaders to reconsider the influence of wider social, political, cultural and economic contexts in creating transformative and revolutionary schools.

**Prerequisite:** Graduate standing.

**Schedule Type:** Field Experience, Lecture

**Contact Hours:** 2 lecture, 1 other

**Grade Mode:** Standard Letter

**EDLE 66531 INSTRUCTIONAL LEADERSHIP 3 Credit Hours**

(Slashed with EDLE 76531) Focuses on the administrative role pertaining to the leadership, management, and evaluation of quality and effective school classroom instruction. Building administrators are responsible for providing the resource for effective instruction, which result in student learning. The key to effective instruction at any level requires a solid grounding in curriculum theory and design. Designed to provide the tools that administrators need to oversee the development, production, monitoring and evaluation of instructional methods and strategies.

**Prerequisite:** Graduate standing.

**Schedule Type:** Field Experience, Lecture

**Contact Hours:** 2 lecture, 1 other

**Grade Mode:** Standard Letter

**EDLE 66533 CENTRAL OFFICE ADMINISTRATION: CURRICULUM AND PUPIL SERVICES 3 Credit Hours**

(Slashed with EDLE 76533) Analyzes roles and responsibilities of central office personnel with an emphasis on curriculum, pupil, and support services as impacted by current educational policy, and practice and focused on impacting the achievement of all students.

**Prerequisite:** Graduate standing.

**Schedule Type:** Field Experience, Lecture

**Contact Hours:** 1.75 lecture, 1.25 other

**Grade Mode:** Standard Letter

**EDLE 66534 THE SUPERINTENDENCY 3 Credit Hours**

(Slashed with EDLE 76534) Focuses on major responsibilities of board of education and superintendent.

**Prerequisite:** EDLE 66526 or EDLE 76526; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**EDLE 66536 THE ADMINISTRATOR'S ROLE IN CURRICULUM DEVELOPMENT 3 Credit Hours**

(Slashed with EDLE 76536) Focusing on the administrative role pertaining to the development, management and evaluation of a quality and effective district school classroom curriculum.

**Prerequisite:** Major in Educational Leadership K-12, Higher Education Administration and Student Affairs or Higher Education Administration; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**EDLE 66538 ADMINISTRATION OF SCHOOL CULTURE, POLITICS AND REFORMS 3 Credit Hours**

(Slashed with EDLE 76538) Focuses on administrative roles in assessing, leading, developing and reforming school culture. Centers on building and district administrators, who are responsible for providing the cultural frameworks and context of school culture through politics and reform efforts. The key to effective school reform requires a solid understanding of micropolitics as well as policy and practice at a state and national level. Designed to provide educational leaders with tools to assess school and district-wide cultural practices and norms as well as the skill sets to disrupt and change them.

**Prerequisite:** Graduate standing.

**Schedule Type:** Field Experience, Lecture

**Contact Hours:** 1.75 lecture, 1.25 other

**Grade Mode:** Standard Letter

**EDLE 66540 WOMEN IN LEADERSHIP 3 Credit Hours**

(Slashed with EDLE 76540) An interactive study of women's development and its effect on their dispositions toward leadership. Provides theoretical contract to traditional management theory.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**EDLE 66542 PRINCIPLES AND TECHNIQUES OF SUPERVISION AND SPECIAL EDUCATION 3 Credit Hours**

(Slashed with EDLE 76542) Principles and techniques needed by administrative specialists and supervisors (curriculum, pupil services, special education) are given. Research findings include changing human relations, change leadership, legal implications, group process, communication, coordination, management, observations, and conferencing skills.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**EDLE 66543 SCHOOL ADMINISTRATION IN URBAN SETTINGS 3 Credit Hours**

(Slashed with EDLE 76543) This course is designed to provide students with opportunities to discuss and investigate the unique challenges of leading inner-city schools. Issues of focus include transportation, staffing, extracurricular support for students and more.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**EDLE 66544 COMMUNITY RELATIONS AND COMMUNICATION SKILLS 3 Credit Hours**

(Slashed with EDLE 76544) Centers on encouraging school leaders to consider the way in which children's learning is influenced by behaviors and perspectives of family members, school personnel and members of the larger community. Educators and school leaders have much to gain by deepening their understanding of how students learn from their family and cultural backgrounds, which fosters more inclusive school practices. Candidates investigate the influence of such collaborations and their role in upholding the ethical responsibility to promote children's welfare.

**Prerequisite:** Graduate standing.

**Schedule Type:** Field Experience, Lecture

**Contact Hours:** 1.75 lecture, 1.25 other

**Grade Mode:** Standard Letter

**EDLE 66591 SEMINAR IN EDUCATIONAL ADMINISTRATION 1-4 Credit Hours**

(Repeatable for credit) Seminar in educational administration.

**Prerequisite:** Graduate standing.

**Schedule Type:** Seminar

**Contact Hours:** 1-4 other

**Grade Mode:** Standard Letter

**EDLE 66595 SPECIAL TOPICS IN EDUCATIONAL ADMINISTRATION 1-3 Credit Hours**

(Repeatable for credit) (Slashed with EDLE 76595) Specialized offerings in response to emerging or selected program needs.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 1-3 lecture

**Grade Mode:** Standard Letter

**EDLE 66596 INDIVIDUAL INVESTIGATION IN EDUCATIONAL ADMINISTRATION 2-4 Credit Hours**

(Repeatable for credit) (Slashed with EDLE 76596) Projects as assigned.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Individual Investigation

**Contact Hours:** 2-4 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP



**EDLE 66598 RESEARCH IN EDUCATIONAL ADMINISTRATION 2-8 Credit Hours**

(Repeatable for credit) Projects as assigned.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Research

**Contact Hours:** 2-8 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**EDLE 66602 TECHNOLOGY LEADERSHIP IN EDUCATION 3 Credit Hours**

(Slashed with EDLE 76602) Prepares educational administrators to be leaders in the advancement of the appropriate integration of technology. Current and prospective administrators increase their understanding of how technology can be used as a tools for teaching, learning, assessment, management, planning and communications. The development and implementations of vision for educational technology is addressed, as well as social and ethical issues.

**Prerequisite:** Graduate standing.

**Schedule Type:** Field Experience, Lecture

**Contact Hours:** 2.25 lecture, .75 other

**Grade Mode:** Standard Letter

**EDLE 66747 PERSONNEL 3 Credit Hours**

(Slashed with EDLE 76747) Administration of education staff at building and central office levels; scope and depth of supervisory responsibilities and development of evaluation techniques.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**EDLE 66750 COACHING AND MENTORING FOR TEACHER LEADERS 3 Credit Hours**

Focuses on developing the knowledge, skills, and dispositions necessary for teacher leaders to provide high levels of effective coaching and mentoring for improving teaching practices and learning for all students. Specific approaches related to mentoring, coaching and per assistance will be examined and practiced.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**EDLE 66751 INSTRUCTIONAL LEADERSHIP FOR TEACHER LEADERS 3 Credit Hours**

This course provides the tools that teacher leaders need to engage in the development, production, monitoring and evaluation of instructional methods and strategies.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**EDLE 70093 VARIABLE TITLE WORKSHOP IN EDUCATIONAL ADMINISTRATION 1-5 Credit Hours**

(Repeatable for credit) (Slashed with EDLE 40093 and EDLE 50093) Variable title workshop in EDAD.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Workshop

**Contact Hours:** 1-5 other

**Grade Mode:** Satisfactory/Unsatisfactory

**EDLE 76492 INTERNSHIP IN EDUCATIONAL ADMINISTRATION 3-6 Credit Hours**

(Repeatable for a maximum of 6 credit hours) (Slashed with EDLE 76492) A field-based internship utilizing an inquiry-based learning model, requiring projects as designated by the program area faculty. Specific topics are outlined and shared at meetings prior to beginning internship. Students are required to complete Bureau of Criminal Investigation and Identification (BCII) and Federal Bureau of Investigation (FBI) background checks and submit the results to authorized personnel at their assigned school-agency before the first day of the semester in which student teaching internship will take place.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Practical Experience

**Contact Hours:** 10-20 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**EDLE 76515 FACILITIES PLANNING AND ADMINISTRATION 3 Credit Hours**

(Slashed with EDLE 66515) Overview of facilities planning and administration, including architectural/ construction management, the educational program, restoration and maintenance.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**EDLE 76517 ADMINISTRATION AND SUPERVISION OF SPECIAL EDUCATION 3 Credit Hours**

(Slashed with EDLE 66517) Administration of educational programs for exceptional children: improvement of teacher competencies; function of special education supervisors; and special education operations at a local, state, and national level.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**EDLE 76518 SCHOOL AND SPECIAL EDUCATION LAW 3 Credit Hours**

(Slashed with EDLE 66518) Constitutional, statutory, and case law involving schools, special and regular education students, administrators, parents and others are studied.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**EDLE 76520 SCHOOL LAW FOR TEACHERS AND PRINCIPALS 3 Credit Hours**

(Slashed with EDLE 66520) Selected principles of constitutional, statutory, case and common law affecting the administration of schools generally and Ohio schools specifically.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**EDLE 76522 PUBLIC SCHOOL FINANCE AND ECONOMICS 3 Credit Hours**

(Slashed with EDLE 66522) Analysis of national, state and local problems of collection custody and expenditure of public school funds.

**Prerequisite:** EDLE 76526; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter



**EDLE 76525 THE EDUCATIONAL PRINCIPALSHIP 3 Credit Hours**

(Slashed with EDLE 66525) Organizing and administering elementary, middle level and secondary schools.

**Prerequisite:** EDLE 66526 or EDLE 76526; 16 credit hours of EDLE; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**EDLE 76526 FUNDAMENTALS OF EDUCATIONAL ADMINISTRATION 3 Credit Hours**

(Slashed with EDLE 66526) Examines theory and practice essential for administration. Skills and understanding are developed in theory goal setting staff development.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**EDLE 76527 SCHOOL FINANCE FOR BUILDING ADMINISTRATORS 3 Credit Hours**

(Slashed with EDLE 66527) Identification of the responsibilities of the school building administrator related to all financial operations in the school building; included are the budget process and development, student accounts, the purchase order process, and fund raising and school groups.

**Prerequisite:** Major in Educational Leadership K-12 or Higher Education Administration; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**EDLE 76529 LEADING FOR SOCIAL JUSTICE 3 Credit Hours**

(Slashed with EDLE 66529) Centers on investigating a broad research agenda on leading for social justice within educational leadership. Provides a context for candidates to establish strong connections between what it means to lead and the primary concerns for learning and equity, which are associated with increased performance and effectiveness for American education. Candidates engage in concepts such as equity audits, border culture, hegemony, moral transformation and other concepts aligned with leading 21st century schools. Such concepts encourage school leaders to reconsider the influence of wider social, political, cultural and economic contexts in creating transformative and revolutionary schools.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Field Experience, Lecture

**Contact Hours:** 2 lecture, 1 other

**Grade Mode:** Standard Letter

**EDLE 76531 INSTRUCTIONAL LEADERSHIP 3 Credit Hours**

(Slashed with EDLE 66531) Focuses on the administrative role pertaining to the leadership, management, and evaluation of quality and effective school classroom instruction. Building administrators are responsible for providing the resource for effective instruction, which result in student learning. The key to effective instruction at any level requires a solid grounding in curriculum theory and design. Designed to provide the tools that administrators need to oversee the development, production, monitoring and evaluation of instructional methods and strategies.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Field Experience, Lecture

**Contact Hours:** 2 lecture, 1 other

**Grade Mode:** Standard Letter

**EDLE 76533 CENTRAL OFFICE ADMINISTRATION 3 Credit Hours**

(Slashed with EDLE 66533) Analyzes roles and responsibilities of central office personnel with an emphasis on curriculum, pupil, and support services as impacted by current educational policy, and practice and focused on impacting the achievement of all students.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Field Experience, Lecture

**Contact Hours:** 1.75 lecture, 1.25 other

**Grade Mode:** Standard Letter

**EDLE 76534 THE SUPERINTENDENCY 3 Credit Hours**

(Slashed with EDLE 66534) Focuses on major responsibilities of board of education and superintendent.

**Prerequisite:** EDLE 66526 or EDLE 76526; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**EDLE 76536 THE ADMINISTRATOR'S ROLE IN CURRICULUM DEVELOPMENT 3 Credit Hours**

(Slashed with EDLE 66536) Focusing on the administrative role pertaining to the development, management and evaluation of a quality and effective district/school/classroom curriculum.

**Prerequisite:** Major in Educational Leadership K-12; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**EDLE 76538 ADMINISTRATION OF SCHOOL CULTURE, POLITICS AND REFORM 3 Credit Hours**

(Slashed with EDLE 66538) Focuses on administrative roles in assessing, leading, developing and reforming school culture. Centers on building and district administrators, who are responsible for providing the cultural frameworks and context of school culture through politics and reform efforts. The key to effective school reform requires a solid understanding of micropolitics as well as policy and practice at a state and national level. Designed to provide educational leaders with tools to assess school and district-wide cultural practices and norms as well as the skill sets to disrupt and change them.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Field Experience, Lecture

**Contact Hours:** 1.75 lecture, 1.25 other

**Grade Mode:** Standard Letter

**EDLE 76540 WOMEN IN LEADERSHIP 3 Credit Hours**

(Slashed with EDLE 66540) An interactive study of women's development and its effect on their dispositions toward leadership. Provides theoretical contract to traditional management theory.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**EDLE 76542 PRINCIPLES AND TECHNIQUES OF SUPERVISION AND SPECIAL EDUCATION 3 Credit Hours**

(Slashed with EDLE 66542) Principles and techniques needed by administrative specialists and supervisors (curriculum, pupil services, special education) are given. Research findings include changing human relations, change leadership, legal implications, group process, communication, coordination, management, observations, and conferencing skills.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**EDLE 76543 SCHOOL ADMINISTRATION IN URBAN SETTINGS 3 Credit Hours**

(Slashed with EDLE 66543) This course is designed to provide students with opportunities to discuss and investigate the unique challenges of leading inner-city schools. Issues of focus include transportation, staffing, extracurricular support for students and more.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**EDLE 76544 COMMUNITY RELATIONS AND COMMUNICATION SKILLS 3 Credit Hours**

(Slashed with EDLE 66544) Centers on encouraging school leaders to consider the way in which children's learning is influenced by behaviors and perspectives of family members, school personnel and members of the larger community. Educators and school leaders have much to gain by deepening their understanding of how students learn from their family and cultural backgrounds, which fosters more inclusive school practices. Candidates investigate the influence of such collaborations and their role in upholding the ethical responsibility to promote children's welfare.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Field Experience, Lecture

**Contact Hours:** 1.75 lecture, 1.25 other

**Grade Mode:** Standard Letter

**EDLE 76595 SPECIAL TOPICS IN EDUCATIONAL ADMINISTRATION 1-3 Credit Hours**

(Repeatable for credit) (Slashed with EDLE 66595) Specialized offerings in response to emerging or selected program needs.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 1-3 lecture

**Grade Mode:** Standard Letter

**EDLE 76596 INDIVIDUAL INVESTIGATION IN EDUCATIONAL ADMINISTRATION 2-4 Credit Hours**

(Repeatable for credit) (Slashed with EDLE 66596) Projects as assigned.

**Prerequisite:** Doctoral standing; and special approval.

**Schedule Type:** Individual Investigation

**Contact Hours:** 2-4 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**EDLE 76602 TECHNOLOGY LEADERSHIP IN EDUCATION 3 Credit Hours**

(Slashed with EDLE 66602) Prepares educational administrators to be leaders in the advancement of the appropriate integration of technology. Current and prospective administrators increase their understanding of how technology can be used as a tools for teaching, learning, assessment, management, planning and communications. The development and implementations of vision for educational technology is addressed, as well as social and ethical issues.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Field Experience, Lecture

**Contact Hours:** 2.25 lecture, .75 other

**Grade Mode:** Standard Letter

**EDLE 76747 PERSONNEL 3 Credit Hours**

(Slashed with EDLE 66747) Administration of education staff at building and central office levels; scope and depth of supervisory responsibilities and development of evaluation techniques.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**EDLE 80080 DISSERTATION PREPARATION SEMINAR 3 Credit Hours**

Gain an in-depth understanding of the dissertation-writing process.

Complete a dissertation proposal.

**Prerequisite:** Doctoral standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**EDLE 80199 DISSERTATION I 15 Credit Hours**

(Repeatable for credit) Doctoral dissertation for which registration in at least two semesters is required, first of which will be semester in which dissertation work is begun and continuing until the completion of 30 hours.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Dissertation

**Contact Hours:** 15 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**EDLE 80299 DISSERTATION II 15 Credit Hours**

(Repeatable for credit) Continuing registration required of doctoral students who have completed the initial 30 hours of dissertation and continuing until all degree requirements are met.

**Prerequisite:** EDLE 80199; and doctoral standing.

**Schedule Type:** Dissertation

**Contact Hours:** 15 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**EDLE 86591 SEMINAR IN EDUCATIONAL ADMINISTRATION 1-4 Credit Hours**

(Repeatable for credit) Seminar in EDAD.

**Prerequisite:** Doctoral standing; and special approval.

**Schedule Type:** Seminar

**Contact Hours:** 1-4 other

**Grade Mode:** Standard Letter

**EDLE 86598 RESEARCH IN EDUCATIONAL ADMINISTRATION 2-8 Credit Hours**

(Repeatable for credit) Projects as assigned.

**Prerequisite:** Doctoral standing; and special approval.

**Schedule Type:** Research

**Contact Hours:** 2-8 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

## Educational Psychology (EPSY)

### EPSY 29525 EDUCATIONAL PSYCHOLOGY 3 Credit Hours

Examines major theories of human development and learning, motivation, instructional strategies, assessment; similarities and differences in learners. The role of factors in the students' learning and development is considered. Participation in the educational psychology research participant pool or an alternative research assignment is required.

**Prerequisite:** CULT 29535.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** TAG Education

### EPSY 49525 RELATIONAL LEARNING IN EDUCATION 3 Credit Hours

(Repeatable for credit) Seminar focuses on national and international relational learning approaches to education. Current literature on relational learning is critiqued. Professional identity is supported through engages learning opportunities in peer mentoring experiences and faculty-let research. Course may be repeated for maximum 9 credit hours.

**Prerequisite:** Special approval.

**Schedule Type:** Seminar

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

### EPSY 50093 VARIABLE TITLE WORKSHOP IN EDUCATIONAL PSYCHOLOGY 1-4 Credit Hours

(Repeatable for a maximum of 6 credit hours) (Slashed with EPSY 70093) Offered on request of school system. Enrollment limited to teachers, administrators or supervisors who are employed in sponsoring system and who are accepted to the university.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Workshop

**Contact Hours:** 1-4 other

**Grade Mode:** Satisfactory/Unsatisfactory

### EPSY 60199 THESIS I 2-6 Credit Hours

Thesis student must register for total of 6 hours, 2 to 6 hours in a single semester distributed over several semesters if desired.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Masters Thesis

**Contact Hours:** 2-6 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

### EPSY 60299 THESIS II 2 Credit Hours

Thesis students must continue registration each semester until all degree requirements are met.

**Prerequisite:** EPSY 60199; and graduate standing.

**Schedule Type:** Masters Thesis

**Contact Hours:** 2 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

### EPSY 63531 CURRICULUM DEVELOPMENT FOR GIFTED LEARNERS 3 Credit Hours

Focus on design/development of curriculum for gifted learners; adapt/modify existing curricula; design curricular materials through predetermined process assessment of suitability of materials.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

### EPSY 63532 GIFTED PROGRAM DESIGN, ASSESSMENT AND ADMINISTRATION 3 Credit Hours

Fundamentals of designing gifted programs are reviewed. Topics include student identification, assessment, advocacy, program evaluation, compliance with state standards, and teacher preparation.

**Prerequisite:** EPSY 63540 and EPSY 63545; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

### EPSY 63535 SOCIAL AND EMOTIONAL ASPECTS OF THE GIFTED AND SPECIAL SUBPOPULATIONS 3 Credit Hours

The affective needs and characteristics of gifted learners and special subpopulations are examined with consideration of the implications for instruction and socio-emotional supports.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

### EPSY 63540 NATURE AND NEEDS OF GIFTED 3 Credit Hours

Personal characteristics, abilities and potentialities of gifted through review of related research. Evaluation of research findings and implications for psycho-educational development.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

### EPSY 63545 INSTRUCTIONAL PROCESSES FOR GIFTED CHILDREN 3 Credit Hours

Education and guidance of gifted students, K-12. Classroom strategies for instruction and accommodation including selection of appropriate instructional strategies.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

### EPSY 64892 ADVANCED PRACTICUM: GIFTED AND TALENTED EDUCATION 3 Credit Hours

This course is designed to provide an opportunity to practice skills and demonstrate appropriate dispositions for meeting the needs of students who are gifted and talented.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Practical Experience

**Contact Hours:** 9 other

**Grade Mode:** Standard Letter-IP

### EPSY 65520 CHILD AND ADOLESCENT DEVELOPMENT 3 Credit Hours

(Slashed with EPSY 75520) Dimensions of human development and learning, causal factors and research findings which carry implications for educators in various settings; focusing on birth through adolescence.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**EPSY 65521 ADULT DEVELOPMENT 3 Credit Hours**

(Slashed with EPSY 75521) Essential dimensions of human development and learning, the causal factors and the research findings which carry implications for educators in various settings; focusing on early through late adulthood.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**EPSY 65523 LIFE SPAN DEVELOPMENT 3 Credit Hours**

(Slashed with EPSY 75523) Orientation to human development across life span from conception to death; emphasis on pluralistic determinants of individual growth within changing environmental contexts. Implications for educational and human service practices are emphasized.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**EPSY 65524 LEARNING THEORIES 3 Credit Hours**

(Slashed with EPSY 75524) Theories of learning with special emphasis on application to professional practice. A critical examination of research on human learning processes.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**EPSY 65529 EDUCATIONAL MOTIVATION 3 Credit Hours**

Provides students with the opportunity to explore, analyze and evaluate literature related to theories of motivation. Content is grounded in theories but each of the theories has clear classroom application.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**EPSY 68901 PSYCHOLOGICAL FOUNDATIONS OF EDUCATION 3 Credit Hours**

(Slashed with EPSY 78901) Overview of human development, particularly adolescence, and implications for educational policy and programming, generally and specifically for secondary schools.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**EPSY 68905 EDUCATIONAL PSYCHOLOGY 3 Credit Hours**

(Slashed with EPSY 78905) Analysis and critique of major learning theories, state-of-the-art development in theory, research and application to educational practice in selected disciplines.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**EPSY 69091 SEMINAR IN LEARNING AND DEVELOPMENT 1-5 Credit Hours**

(Repeatable for credit) Variable topic seminar for advanced study of specialized topics and areas; in learning and development; emphasis on theory and research findings as related to educational practice.

**Prerequisite:** Graduate standing.

**Schedule Type:** Seminar

**Contact Hours:** 1-5 other

**Grade Mode:** Standard Letter

**EPSY 69092 ADVANCED PRACTICUM AND INTERNSHIP 1-6 Credit Hours**

Supervised program in field setting involving application of theories, principles, and methodology in learning and development; planned with and supervised by graduate faculty member.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Practical Experience

**Contact Hours:** 3.333-20 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**EPSY 69095 SPECIAL TOPICS IN LEARNING AND DEVELOPMENT 1-3 Credit Hours**

(Repeatable for credit) Specific topic course offering in response to emerging student or program needs in learning and development.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 1-3 lecture

**Grade Mode:** Standard Letter

**EPSY 69096 INDIVIDUAL INVESTIGATION IN LEARNING AND DEVELOPMENT 1-3 Credit Hours**

(Repeatable for credit) Students pursue an individual project on a specific topic in learning and development with approval and under direction of instructor.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Individual Investigation

**Contact Hours:** 1-3 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**EPSY 69098 RESEARCH IN LEARNING AND DEVELOPMENT 1-15 Credit Hours**

(Repeatable for credit) Students pursue an individual research project on a specific topic in learning and development with approval and under direction of instructor.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Research

**Contact Hours:** 1-15 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**EPSY 70093 VARIABLE TOPIC WORKSHOP IN EDUCATIONAL PSYCHOLOGY 1-4 Credit Hours**

(Repeatable once for a maximum of 6 credit hours) (Cross-listed with EPSY 50093) Offered on request of school system. Enrollment limited to teachers, administrators or supervisors who are employed in sponsoring system and who are accepted to the university.

**Prerequisite:** Doctoral standing; and special approval.

**Schedule Type:** Workshop

**Contact Hours:** 1-4 other

**Grade Mode:** Satisfactory/Unsatisfactory

**EPSY 70094 COLLEGE TEACHING 3 Credit Hours**

(Repeatable for credit) Discusses major aspects of teaching in higher education, including such topics as students' philosophy of teaching, principles of adult learning, instructional strategies, students' assessment.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**EPSY 75520 CHILD AND ADOLESCENT DEVELOPMENT 3 Credit Hours**

(Slashed with EPSY 65520) Dimensions of human development and learning, causal factors and research findings which carry implications for educators in various settings; focusing on birth through adolescence.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**EPSY 75521 ADULT DEVELOPMENT 3 Credit Hours**

(Slashed with EPSY 65521) Essential dimensions of human development and learning, the causal factors and the research findings which carry implications for educators in various settings; focusing on early through late adulthood.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**EPSY 75523 LIFE SPAN DEVELOPMENT 3 Credit Hours**

(Slashed with EPSY 65523) Orientation to human development across life span from conception to death; emphasis on pluralistic determinants of individual growth within changing environmental contexts. Implications for educational and human service practices are emphasized.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**EPSY 75524 LEARNING THEORIES 3 Credit Hours**

(Slashed with EPSY 65524) Theories of learning with special emphasis on application to professional practice. A critical examination of research on human learning processes.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**EPSY 75529 EDUCATIONAL MOTIVATION 3 Credit Hours**

Provides students with the opportunity to explore, analyze and evaluate literature related to theories of motivation. Content is grounded in theories but each of the theories has clear classroom application.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**EPSY 78901 PSYCHOLOGICAL FOUNDATIONS OF EDUCATION 3 Credit Hours**

(Slashed with EPSY 68901) Overview of human development and its implications for educational policy and programming for schools.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**EPSY 78905 EDUCATIONAL PSYCHOLOGY 3 Credit Hours**

(Slashed with EPSY 68905) Analysis and critique of major learning theories, state-of-the-art development in theory, research and application to educational practice in selected disciplines.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**EPSY 80090 DOCTORAL RESIDENCY SEMINAR 3 Credit Hours**

Advanced doctoral residency seminar for students in all areas of educational foundations. Focus on current and emergent issues research and trends in education in multiple settings.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Seminar

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**EPSY 80199 DISSERTATION I 15 Credit Hours**

(Repeatable for credit) Doctoral dissertation for which registration in at least two semesters is required, first of which will be semester in which dissertation work is begun and continuing until the completion of 30 hours.

**Prerequisite:** Doctoral standing; and special approval.

**Schedule Type:** Dissertation

**Contact Hours:** 15 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**EPSY 80299 DISSERTATION II 15 Credit Hours**

(Repeatable for credit) Continuing registration required of doctoral students who have completed the initial 30 hours of dissertation and continuing until all degree requirements are met.

**Prerequisite:** EPSY 80199; and doctoral standing.

**Schedule Type:** Dissertation

**Contact Hours:** 15 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**EPSY 87450 PSYCHOLOGICAL PRINCIPLES OF EDUCATION 3 Credit Hours**

Provides an exploration of educational psychology as the study of learning and teaching, in particular the mental representations and processes involved in the acquisition, storage, retrieval and use of knowledge in educational settings. Discusses how research and theory in educational psychology can be applied to real world classroom problems. Students are also required to develop a research project, which utilizes technology to test psychological theories about learning and instruction.

**Prerequisite:** Doctoral standing.

**Corequisite:** ETEC 87450.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter



**EPSY 89091 SEMINAR IN LEARNING AND DEVELOPMENT 1-5 Credit Hours**

(Repeatable for credit) Variable topic seminar for advanced study of specialized topics and areas; in learning and development; emphasis on theory and research findings as related to educational practice.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Seminar

**Contact Hours:** 1-5 other

**Grade Mode:** Standard Letter

**EPSY 89092 ADVANCED PRACTICUM AND INTERNSHIP 1-6 Credit Hours**

Supervised program in field setting involving application of theories, principles, and methodology in learning and development; planned with and supervised by graduate faculty member.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Practical Experience

**Contact Hours:** 3.333-20 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**EPSY 89095 SPECIAL TOPICS IN LEARNING AND DEVELOPMENT 1-3 Credit Hours**

(Repeatable for credit) Specific topic course offering in response to emerging student or program needs in learning and development.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 1-3 lecture

**Grade Mode:** Standard Letter

**EPSY 89096 INDIVIDUAL INVESTIGATION IN LEARNING AND DEVELOPMENT 1-3 Credit Hours**

(Repeatable for credit) Students pursue an individual project on a specific topic in learning and development with approval and under direction of instructor.

**Prerequisite:** Doctoral standing; and special approval.

**Schedule Type:** Individual Investigation

**Contact Hours:** 1-3 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**EPSY 89098 RESEARCH IN LEARNING AND DEVELOPMENT 1-15 Credit Hours**

(Repeatable for credit) Students pursue an individual research project on a specific topic in learning and development with approval and under direction of instructor.

**Prerequisite:** Doctoral standing; and special approval.

**Schedule Type:** Research

**Contact Hours:** 1-15 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

## Educational Studies (EDST)

**EDST 40095 SPECIAL TOPICS IN EDUCATIONAL STUDIES 1-3 Credit Hours**

(Course is repeatable) Selected topics in Educational Studies dependent upon interest.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 1-3 lecture

**Grade Mode:** Standard Letter

**EDST 40096 INDIVIDUAL INVESTIGATION IN EDUCATIONAL STUDIES PROGRAM 1-3 Credit Hours**

(Course is repeatable) Independent study completed under the supervision of a faculty member. Written approval of supervising faculty member required prior to registration.

**Prerequisite:** Special approval.

**Schedule Type:** Individual Investigation

**Contact Hours:** 1-3 other

**Grade Mode:** Standard Letter-IP

**EDST 44003 SEMINAR IN EDUCATIONAL STUDIES 3 Credit Hours**

Directed discussion applying concepts from previous educational coursework and internships or prior work experience.

**Prerequisite:** Senior standing.

**Schedule Type:** Seminar

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter-IP

**EDST 44004 RESEARCH AND WRITINGS IN EDUCATIONAL STUDIES (WIC) 3 Credit Hours**

This course presents and integrates the role of professionals in the Education, Health and Human Services fields as they attempt to meet the needs of individuals in diverse environments.

**Prerequisite:** Senior standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter-IP

**Attributes:** Writing Intensive Course

**EDST 44092 PRACTICUM IN EDUCATIONAL STUDIES (ELR) 1-12 Credit Hours**

(Course is repeatable for a maximum of 12 credit hours) Placement in a work site congruent with student's career aspirations.

**Prerequisite:** Educational Studies majors; and senior standing; and special approval.

**Schedule Type:** Practical Experience

**Contact Hours:** 1-12 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**Attributes:** Experiential Learning Requirement

## Educational Technology (ETEC)

**ETEC 39525 EDUCATIONAL TECHNOLOGY 3 Credit Hours**

Develops knowledge and skills in designing, implementing, and assessing learning experiences, using various digital tools and resources to support teaching, learning, and research.

**Prerequisite:** CULT 29535.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ETEC 40093 VARIABLE TITLE WORKSHOP IN EDUCATIONAL TECHNOLOGY 1-4 Credit Hours**

(Repeatable for credit) (Slashed with ETEC 50093) Variable topic workshop designed to respond to emerging or specialized needs in educational technology.

**Prerequisite:** None.

**Schedule Type:** Workshop

**Contact Hours:** 1-4 other

**Grade Mode:** Satisfactory/Unsatisfactory

**ETEC 47400 TRENDS IN EDUCATIONAL TECHNOLOGY 3 Credit Hours**

(Slashed with ETEC 57400) Overview of current technologies as they are used in education. Teaches principles and techniques for selecting and using technology for instruction. Focuses on digital technologies that can be used to increase the effectiveness of education.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ETEC 47403 INSTRUCTIONAL DESIGN 3 Credit Hours**

(Slashed with ETEC 57403) Enables students to design and develop instructional systems and materials using a systematic and research- and theory-based instructional design model.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ETEC 47427 TECHNOLOGY AND LEARNING 3 Credit Hours**

(Slashed with ETEC 57427) The effective use of technology for teaching and learning depends on understanding how researchers have created, integrated, and adapted technology integration and adoption models. This course presents an overview of key theories and concepts that have transformed our understanding of educational technology. It relies on a knowledge of the psychological principles of learning. Students without such knowledge should consider taking EPSY 29525 Educational Psychology first.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ETEC 47495 SPECIAL TOPICS: EDUCATIONAL TECHNOLOGY 1-4 Credit Hours**

(Repeatable for credit) Specialized offering in response to emerging or selected program needs in educational technology.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 1-4 lecture

**Grade Mode:** Standard Letter

**ETEC 47496 INDIVIDUAL INVESTIGATION IN EDUCATIONAL TECHNOLOGY 1-3 Credit Hours**

(Repeatable for credit) Directed independent reading and/or research of special interest or need in student's program. Planned with and directed by a faculty member.

**Prerequisite:** Special approval.

**Schedule Type:** Individual Investigation

**Contact Hours:** 3-9 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**ETEC 50093 VARIABLE TITLE WORKSHOP IN EDUCATIONAL TECHNOLOGY 1-4 Credit Hours**

(Repeatable for credit) (Slashed with ETEC 40093) Variable topic workshop designed to respond to emerging or specialized needs in educational technology.

**Prerequisite:** Graduate standing.

**Schedule Type:** Workshop

**Contact Hours:** 1-4 other

**Grade Mode:** Satisfactory/Unsatisfactory

**ETEC 57400 TRENDS IN EDUCATIONAL TECHNOLOGY 3 Credit Hours**

(Slashed with ETEC 47400) Overview of current technologies as they are used in education. Teaches principles and techniques for selecting and using technology for instruction. Focuses on digital technologies that can be used to increase the effectiveness of education.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ETEC 57403 INSTRUCTIONAL DESIGN 3 Credit Hours**

(Slashed with ETEC 47403) Enables students to design and develop instructional systems and materials using a systematic and research- and theory-based instructional design model.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ETEC 57427 TECHNOLOGY AND LEARNING 3 Credit Hours**

(Slashed with ETEC 47427) The effective use of technology for teaching and learning depends on understanding how researchers have created, integrated, and adapted technology integration and adoption models. This course presents an overview of key theories and concepts that have historically transformed our understanding of educational technology. It relies on a knowledge of the psychological principles of learning. Students without such knowledge should consider taking EPSY 65524 Learning Theories, first.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ETEC 60199 THESIS I 2-6 Credit Hours**

(Repeatable for credit) Students electing to complete a thesis to fulfill the requirements for the Master of Education degree must register for at least one semester of Thesis I.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Masters Thesis

**Contact Hours:** 6-18 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**ETEC 60299 THESIS II 2 Credit Hours**

(Repeatable for credit) When 6 credits of Thesis I have been complete, students electing to complete a thesis to fulfill the requirements for the Master of Education degree must continue to register each semester for Thesis II until all degree requirements have been completed.

**Prerequisite:** Graduate standing.

**Schedule Type:** Masters Thesis

**Contact Hours:** 6 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**ETEC 67402 MANAGING SCHOOL TECHNOLOGY CENTERS AND PROGRAMS 3 Credit Hours**

(Slashed with ETEC 77402) Provides skills in planning, organizing, administering and evaluating school-based technology and media centers.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ETEC 67410 SIMULATIONS AND GAMES IN EDUCATION 3 Credit Hours**

(Slashed with ETEC 77410) Introduction to digital simulations and games as educational tools. Students develop proficiency in applying these tools to learning. Surveys research and design principles and introduces game editors for developing simulations and games.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ETEC 67411 DESIGNING VISUALS FOR EDUCATION 3 Credit Hours**

(Slashed with ETEC 77411) Investigates research in perception and cognition and its influence on principles and best practices in educational visual design. Focuses on the design of educational visuals and media in print, video, and computer-based technology.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ETEC 67420 RESEARCH ISSUES IN EDUCATIONAL TECHNOLOGY 3 Credit Hours**

(Slashed with ETEC 77420) Reviews the foundations of the field of Educational Technology as well as the basic theories that underlie its practice. Teaches masters students to read and make use of research in the field and doctoral students to critique research and develop meaningful research questions in the field.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ETEC 67425 MANAGING TECHNOLOGICAL CHANGE 3 Credit Hours**

(Slashed with ETEC 77425) Analyzing organizations and situations to determine the needs for and obstacles to technological change. Development of strategies for technological change. Identifying goals for change projects and basic project management techniques for implementing them.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ETEC 67426 MANAGING SCHOOL TECHNOLOGIES 3 Credit Hours**

(Slashed with ETEC 77426) Specifically for students interested in working in school settings managing computer labs and school servers and networks. Covers managing aspects of computer hardware, software and updates, and networks.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ETEC 67432 DESIGNING MULTIMEDIA FOR EDUCATION 3 Credit Hours**

(Slashed with ETEC 77432) Application of evidence-based instructional methods to the design, development, and evaluation of multimedia learning materials. Research-based guidelines for multimedia learning that influence learning outcomes. Uses various tools to design and develop multimedia projects.

**Prerequisite:** ETEC 57403; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ETEC 67434 EMERGING TECHNOLOGIES FOR EDUCATION 3 Credit Hours**

(Slashed with ETEC 77434) Focuses on the theoretical foundations, design, and development of educational delivery systems employing leading-edge and emergent technologies. Includes presentations and activities that employ the technologies.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ETEC 67435 VIRTUAL AND AUGMENTED REALITY 3 Credit Hours**

(Slashed with ETEC 77435) Virtual augmented reality can help provide engaging educational experiences. This course enables students to understand best practices and core guidelines in these technologies. Design principles and software for developing environments are included.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ETEC 67442 DESIGNING ONLINE AND BLENDED COURSES 3 Credit Hours**

(Slashed with ETEC 77442) Online and blended courses present new challenges in designing instructional experiences for students. Students will analyze course goals and contexts, design and develop effective online educational materials, interactions and discourses, and plan the evaluation of online courses.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ETEC 67444 TEACHING ONLINE AND BLENDED COURSES 3 Credit Hours**

(Slashed with ETEC 77444) Course explores using pedagogical approaches appropriate to online learning, including facilitating synchronous and asynchronous discussions, facilitating embedded assessment, enhancing online interactivity, collaboration and community and incorporating self-directed learning. Students discuss, analyze and use these strategies in online teaching and learning.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ETEC 67445 DESIGNING INSTRUCTIONAL AND PERFORMANCE SOLUTIONS 3 Credit Hours**

(Slashed with ETEC 77445) Develop knowledge of the systematic approach to instructional design, the contexts of application of this approach, and the roles of professionals in this field in adapting and applying the process in a flexible and innovative manner, especially to large-scale projects.

**Prerequisite:** ETEC 57403; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ETEC 67449 RESEARCH IN ONLINE AND BLENDED LEARNING 3****Credit Hours**

(Slashed with ETEC 77449) Course reviews current research issues in online teaching and learning and explores potential new areas of research. Students engage in guided inquiry to identify, understand, apply, and critique current research. Students participate in a constructive online learning environment.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ETEC 67491 SEMINAR: EDUCATIONAL TECHNOLOGY 1-4 Credit Hours**

(Repeatable for credit) (Slashed with ETEC 77491) Variable topic seminar for advanced study of specialized areas and topics. Normally designed around research and theory applied to practice.

**Prerequisite:** Graduate standing.

**Schedule Type:** Seminar

**Contact Hours:** 1-4 other

**Grade Mode:** Standard Letter

**ETEC 67492 PRACTICUM AND PORTFOLIO 3 Credit Hours**

Apply knowledge and skills related to the design, development, implementation, management, and evaluation of educational technologies through practical field experience in a school setting or an environment where educational technology services and programs are being used. Create a standards-based online portfolio to demonstrate professional competence and growth.

**Prerequisite:** Graduate standing.

**Schedule Type:** Practical Experience

**Contact Hours:** 10 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**ETEC 67495 SPECIAL TOPICS IN EDUCATIONAL TECHNOLOGY 1-4 Credit Hours**

(Repeatable for credit) Specialized offering in response to emerging or selected program needs in educational technology.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 1-4 lecture

**Grade Mode:** Standard Letter

**ETEC 67496 INDIVIDUAL INVESTIGATION IN EDUCATIONAL TECHNOLOGY 1-3 Credit Hours**

(Repeatable for credit) (Slashed with ETEC 77496) Directed independent reading and/or research of special interest or need in student's program. Planned with and directed by a graduate faculty member.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Individual Investigation

**Contact Hours:** 3-9 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**ETEC 67498 INDEPENDENT RESEARCH IN EDUCATIONAL TECHNOLOGY 1-5 Credit Hours**

(Repeatable for credit) (Slashed with ETEC 77498) Students pursue an individualized research project on a specialized topic with approval and under direction of instructor.

**Prerequisite:** Graduate standing.

**Schedule Type:** Research

**Contact Hours:** 3-15 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**ETEC 77402 MANAGING SCHOOL TECHNOLOGY CENTERS AND PROGRAMS 3 Credit Hours**

(Slashed with ETEC 67402) Provides skills in planning, organizing, administering and evaluating school-based technology and media centers.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ETEC 77410 SIMULATIONS AND GAMES IN EDUCATION 3 Credit Hours**

Introduction to digital simulations and games as educational tools. Students develop proficiency in applying these tools to learning.

Surveys research and design principles and introduces game editors for developing simulations and games.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ETEC 77411 DESIGNING VISUALS FOR EDUCATION 3 Credit Hours**

(Slashed with ETEC 67411) Investigates research in perception and cognition and its influence on principles and best practices in educational visual design. Focuses on the design of educational visuals and media in print, video, and computer-based technology.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ETEC 77420 RESEARCH ISSUES IN EDUCATIONAL TECHNOLOGY 3 Credit Hours**

Reviews the foundations of the field of Educational Technology as well as the basic theories that underlie its practice. Teaches masters students to read and make use of research in the field and doctoral students to critique research and develop meaningful research questions in the field.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ETEC 77425 MANAGING TECHNOLOGICAL CHANGE 3 Credit Hours**

(Slashed with ETEC 67425) Analyzing organizations and situations to determine the needs for and obstacles to technological change.

Development of strategies for technological change. Identifying goals for change projects and basic project management techniques for implementing them.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ETEC 77426 MANAGING SCHOOL TECHNOLOGIES 3 Credit Hours**

(Slashed with ETEC 67426) Specifically for students interested in working in school settings managing computer labs and school servers and networks. Covers managing aspects of computer hardware, software and updates, and networks.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**EETC 77432 DESIGNING MULTIMEDIA FOR EDUCATION 3 Credit Hours**

(Slashed with ETEC 67432) Application of evidence-based instructional methods to the design, development, and evaluation of multimedia learning materials. Research-based guidelines for multimedia learning that influence learning outcomes. Uses various tools to design and develop multimedia projects.

**Prerequisite:** ETEC 57403; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**EETC 77434 EMERGING TECHNOLOGIES FOR EDUCATION 3 Credit Hours**

(Slashed with ETEC 67434) Focuses on the theoretical foundations, design, and development of educational delivery systems employing leading-edge and emergent technologies. Includes presentations and activities that employ the technologies.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**EETC 77435 VIRTUAL AND AUGMENTED REALITY 3 Credit Hours**

(Slashed with ETEC 67435) Virtual augmented reality can help provide engaging educational experiences. This course enables students to understand best practices and core guidelines in these technologies. Design principles and software for developing environments are included.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**EETC 77442 DESIGNING ONLINE AND BLENDED COURSES 3 Credit Hours**

(Slashed with ETEC 67442) Online and blended courses present new challenges in designing instructional experiences for students. Students will analyze course goals and contexts, design and develop effective online educational materials, interactions and discourses, and plan the evaluation of online courses.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**EETC 77444 TEACHING ONLINE AND BLENDED COURSES 3 Credit Hours**

(Slashed with ETEC 67444) Course explores using pedagogical approaches appropriate to online learning, including facilitating synchronous and asynchronous discussions, facilitating embedded assessment, enhancing online interactivity, collaboration and community and incorporating self-directed learning. Students discuss, analyze and use these strategies in online teaching and learning.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**EETC 77445 DESIGNING INSTRUCTIONAL AND PERFORMANCE SOLUTIONS 3 Credit Hours**

(Slashed with ETEC 67445) Develop knowledge of the systematic approach to instructional design, the contexts of application of this approach, and the roles of professionals in this field in adapting and applying the process in a flexible and innovative manner, especially to large-scale projects.

**Prerequisite:** ETEC 57403; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**EETC 77449 RESEARCH IN ONLINE AND BLENDED LEARNING 3 Credit Hours**

(Slashed with ETEC 67449) Course reviews current research issues in online teaching and learning and explores potential new areas of research. Students engage in guided inquiry to identify, understand, apply, and critique current research. Students participate in a constructive online learning environment.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**EETC 77491 SEMINAR: EDUCATIONAL TECHNOLOGY 1-4 Credit Hours**

(Repeatable for credit) (Slashed with ETEC 67491) Variable topic seminar for advanced study of specialized areas and topics. Normally designed around research and theory applied to practice.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Seminar

**Contact Hours:** 1-4 other

**Grade Mode:** Standard Letter

**EETC 77492 ADVANCED PRACTICUM AND INTERNSHIP IN EDUCATIONAL TECHNOLOGY 1-10 Credit Hours**

Supervised program requiring application of theory to practice in the use of instructional technology directed by a graduate faculty member and a practitioner in the field. Students are required to complete Bureau of Criminal Investigation and Identification (BCII) and Federal Bureau of Investigation (FBI) background checks and submit the results to authorized personnel at their assigned school-agency before the first day of the semester in which internship will take place.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Practical Experience

**Contact Hours:** 3-33 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**EETC 77495 SPECIAL TOPICS IN EDUCATIONAL TECHNOLOGY 1-4 Credit Hours**

(Slashed with ETEC 67495) Specialized offering in response to emerging or selected program needs in educational technology.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 1-4 lecture

**Grade Mode:** Standard Letter



**EETC 77496 INDIVIDUAL INVESTIGATION IN EDUCATIONAL TECHNOLOGY 1-3 Credit Hours**  
 (Repeatable for credit) (Slashed with ETEC 67496) Directed independent reading and/or research of special interest or need in student's program. Planned with and directed by a graduate faculty member.  
**Prerequisite:** Doctoral standing; and special approval.  
**Schedule Type:** Individual Investigation  
**Contact Hours:** 3-9 other  
**Grade Mode:** Satisfactory/Unsatisfactory-IP

**EETC 77498 INDEPENDENT RESEARCH IN EDUCATIONAL TECHNOLOGY 1-5 Credit Hours**  
 (Repeatable for credit) (Slashed with ETEC 67498) Students pursue an individualized research project on a specialized topic with approval and under direction of instructor.  
**Prerequisite:** Doctoral standing; and special approval.  
**Schedule Type:** Research  
**Contact Hours:** 3-15 other  
**Grade Mode:** Satisfactory/Unsatisfactory-IP

**EETC 87450 LEARNING WITH EDUCATIONAL TECHNOLOGIES 3 Credit Hours**  
 Provides an overall introduction to research and practice in educational technology at the doctoral level. Includes examination of principles and examples of the effective application of technology to educational settings as well as approaches to research in the field.  
**Prerequisite:** Doctoral standing.  
**Schedule Type:** Lecture  
**Contact Hours:** 3 lecture  
**Grade Mode:** Standard Letter

## Electrical Engineering and Related Technologies (EERT)

**EERT 10192 OVERHEAD LINE TECHNOLOGY PRACTICUM I (ELR) 5 Credit Hours**  
 Practical application of electrical overhead line worker job duties in a setting under direct supervision of First Energy Personnel. Prior to enrollment, students must be accepted into the First Energy Power Systems Institute (PSI).  
**Prerequisite:** Special approval.  
**Schedule Type:** Practical Experience  
**Contact Hours:** 15 other  
**Grade Mode:** Standard Letter  
**Attributes:** Experiential Learning Requirement

**EERT 10292 OVERHEAD LINE TECHNOLOGY II PRACTICUM (ELR) 5 Credit Hours**  
 Supervised practical application of electrical overhead line worker duties including the use of ladders, rescue operations, and transformers under the supervision of FirstEnergy personnel.  
**Prerequisite:** EERT 10192; and special approval.  
**Schedule Type:** Practical Experience  
**Contact Hours:** 15 other  
**Grade Mode:** Standard Letter  
**Attributes:** Experiential Learning Requirement

**EERT 12000 ELECTRIC CIRCUITS I 4 Credit Hours**  
 Direct current circuit analysis involving current and voltage, resistance, energy and power, Ohm's law, series and parallel networks. Mesh and nodal analysis, network theorems and DC instruments.  
**Corequisite:** MATH 11010.  
**Schedule Type:** Combined Lecture and Lab  
**Contact Hours:** 3 lecture, 2 lab  
**Grade Mode:** Standard Letter  
**Attributes:** CTAG Electrical Engineer Technology, TAG Engineering Technology

**EERT 12001 ELECTRIC CIRCUITS II 3 Credit Hours**  
 Analysis of capacitive, inductance and magnetic circuits and transients in R-L-C combinations. AC network analysis: mesh and nodal, phasor algebra, power factor, resonance.  
**Prerequisite:** EERT 12000.  
**Schedule Type:** Combined Lecture and Lab  
**Contact Hours:** 2 lecture, 2 lab  
**Grade Mode:** Standard Letter  
**Attributes:** TAG Engineering Technology

**EERT 12005 ELECTRICAL/ELECTRONIC DRAWING 2 Credit Hours**  
 Electrical Electronic drawing techniques using current computer-aided design software emphasizing schematic, block and wiring diagrams, document markups, circuit board printing, circuit or power layout is covered as needed.  
**Prerequisite:** None.  
**Schedule Type:** Lecture  
**Contact Hours:** 2 lecture  
**Grade Mode:** Standard Letter

**EERT 12010 INTRODUCTION TO ELECTRONICS 4 Credit Hours**  
 Semiconductor theory. Properties and application of PN junctions and bipolar junction transistors, amplifiers, field effect transistors (FET) amplifiers, JFET and MOSFET biasing and their use in simple circuits.  
**Prerequisite:** EERT 12000.  
**Schedule Type:** Combined Lecture and Lab  
**Contact Hours:** 3 lecture, 2 lab  
**Grade Mode:** Standard Letter  
**Attributes:** TAG Engineering Technology

**EERT 20192 OVERHEAD LINE TECHNOLOGY III PRACTICUM (ELR) 5 Credit Hours**  
 Supervised practical applications of electrical line worker job duties under the supervision of FirstEnergy personnel. Emphasis on URD equipment, grounding distribution circuits and working with energized three phase circuits.  
**Prerequisite:** EERT 10292; and special approval.  
**Schedule Type:** Practical Experience  
**Contact Hours:** 15 other  
**Grade Mode:** Standard Letter  
**Attributes:** Experiential Learning Requirement

**EERT 20292 OVERHEAD LINE TECHNOLOGY PRACTICUM IV (ELR) 5 Credit Hours**  
 Supervised practical application of electrical overhead line worker job duties under the direct supervision of FirstEnergy personnel. Emphasis on line equipment, hot line tools, and transmission.  
**Prerequisite:** EERT 20192; and special approval.  
**Schedule Type:** Practical Experience  
**Contact Hours:** 15 other  
**Grade Mode:** Standard Letter  
**Attributes:** Experiential Learning Requirement

**EERT 21010 ENGINEERING AND PROFESSIONAL ETHICS 3 Credit Hours**

Application of codes of ethics in the engineering and technology profession reflective of social and moral responsibilities to the public and accountability in engineering practice.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**EERT 21096 INDIVIDUAL INVESTIGATION IN ELECTRICAL/ENGINEERING TECHNOLOGY 1-4 Credit Hours**

(Repeatable for credit) Independent in depth research of an electrical electronic engineering technology topic supervised and coordinated by an engineering technology faculty member.

**Prerequisite:** Permission.

**Schedule Type:** Individual Investigation

**Contact Hours:** 1-4 other

**Grade Mode:** Standard Letter

**EERT 22000 ELECTRICITY/ELECTRONICS WITH APPLICATIONS 3 Credit Hours**

Basic electronics theory and fundamental concepts of electrical/electronic and digital circuits with applications in the various fields of engineering.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**EERT 22002 INDUSTRIAL CONTROLS 3 Credit Hours**

Introduction to control of AC and DC machinery by electromechanical and solid state devices. Study of circuits, troubleshooting methods and logic systems.

**Prerequisite:** EERT 12010 or EERT 22000; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**EERT 22004 DIGITAL SYSTEMS 4 Credit Hours**

Modern integrated digital logic families. Analysis and design of digital circuits such as gates, multivibrators, comparators, counters, registers including interface, control memory and computer circuits. Programmable logic controllers and integrated circuit technologies.

**Prerequisite:** None.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 3 lecture, 2 lab

**Grade Mode:** Standard Letter

**Attributes:** CTAG Electrical Engineer Technology

**EERT 22005 ELECTRONIC INSTRUMENTATION 3 Credit Hours**

Understanding of automation control and process characteristics.

Application of various type of measurement devices & control equipments. Use of modern simulation software for process control and troubleshooting.

**Prerequisite:** EERT 12010.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 2 lecture, 2 lab

**Grade Mode:** Standard Letter

**EERT 22006 ELECTRICAL MACHINES 3 Credit Hours**

Introduction to transformer action, losses and efficiency. Fundamentals of DC and AC motors and generators and three phase systems.

**Prerequisite:** EERT 12001.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**EERT 22011 ELECTRONIC SYSTEMS 2 Credit Hours**

Continuation of EERT 12010. Frequency effects, Miller's Theorem, decibel notation and negative feedback, Oscillators, Op-amps, circuits and applications, Thyristors and electronically regulated power supplies.

**Prerequisite:** EERT 12010.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 1 lecture, 2 lab

**Grade Mode:** Standard Letter

**Attributes:** TAG Engineering Technology

**EERT 22014 MICROPROCESSORS AND ROBOTICS 3 Credit Hours**

An introduction to microprocessor system fundamentals, number systems, binary codes, hexa- decimal codes, Programming fundamentals in C, C++ software, Microcontroller hardware architecture and instruction set, with applications to robot systems motor control, sensors.

**Prerequisite:** None.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 2 lecture, 2 lab

**Grade Mode:** Standard Letter

**Attributes:** TAG Engineering Technology

**EERT 22016 PRODUCTIVITY SOFTWARE FOR INDUSTRY 1 Credit Hour**

(Repeatable for a maximum of 3 credit hours) Introduces students to the use of computers for word processing, spreadsheets and database management applications. Students receive hands-on training on the use of the software applicable to engineering problems using hands-on formats.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 1 lab

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**EERT 22018 PC/NETWORK ENGINEERING AND TROUBLESHOOTING 3 Credit Hours**

Covers the service, maintenance, upgrade and optimization of personal computers. Specification, installation and maintenance of local area networks is covered. Students learn communication protocols and network architecture. Two lectures and two labs.

**Prerequisite:** None.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 2 lecture, 2 lab

**Grade Mode:** Standard Letter

**EERT 22095 SPECIAL TOPICS IN ELECTRICAL/ELECTRONIC AND RELATED ENGINEERING TECHNOLOGIES 1-3 Credit Hours**

(Repeatable for credit) Special topics in electrical/electronic engineering technology.

**Prerequisite:** Permission.

**Schedule Type:** Lecture

**Contact Hours:** 1-3 lecture

**Grade Mode:** Standard Letter

**EERT 23000 SENSORS 2 Credit Hours**

A study of sensors, transducers, relays, solenoids, servomotors, actuators, lasers, LEDs, photonic and temperature sensors and electronic devices in electromechanical control.

**Prerequisite:** Sophomore standing.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 2 other

**Grade Mode:** Standard Letter

**EERT 32003 TECHNICAL COMPUTING 3 Credit Hours**

A hands-on introduction to computation, through object-oriented programming and problem solving. Programming in the C++ language.

**Corequisite:** MATH 11010.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**EERT 32005 INSTRUMENTATION 3 Credit Hours**

Introduction to modern industrial controls, interfacing devices, transducer systems, and process control methods.

**Prerequisite:** Junior Standing.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 3 lecture, 1 lab

**Grade Mode:** Standard Letter

## Emerging Media and Technology (EMAT)

**EMAT 10010 INTRODUCTION TO EMERGING MEDIA AND TECHNOLOGY 3 Credit Hours**

Through this course students will explore the emerging media and technology industries, receive an introduction to basic programming concepts, and develop their own emerging media project plan. Additionally, students will learn about the impact of emerging media and technology on culture and society. Topics include an introduction to ethical technology design, emerging media and globalization, and how technology relates to relationship and identity formation and maintenance.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**EMAT 10310 MY STORY ON THE WEB 3 Credit Hours**

A first course in understanding the web's impact on our private and public lives. Introductory course that enables students to establish a web presence and persona by the end of the semester. Through the storytelling initiative and creating these sites, students investigate web site design, storytelling, multimedia, intellectual property, ethical considerations and social media.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**EMAT 13210 DESIGN PROCESSES AND PRINCIPLES 3 Credit Hours**

Introduction to the discipline of design, including general design models and procedures, rational and creative models of design, and design as problem solving. Specific design contexts are introduced including information design, graphics and visual design, architectural design and educational design.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**EMAT 15310 CREATIVE CODING 3 Credit Hours**

In this course students will be given a hands-on introduction to computational thinking and object-oriented programming through the framework of creative coding. Students will learn how to use variables, loops, functions, classes and API's (Application Programming Interfaces) to make original works of creative code for screen-based media that move, interact and unfold over time. Emphasis will be placed on play and experimentation as critical facets of creative problem solving.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**EMAT 19995 SPECIAL TOPICS IN EMERGING MEDIA AND TECHNOLOGY 1-4 Credit Hours**

(Repeatable for credit) Analysis of significant and current issues in emerging media and technology not covered in regular courses. Offered when opportunities and resources permit; the topic is announced when the course is scheduled.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 1-4 lecture

**Grade Mode:** Standard Letter

**EMAT 22110 DATA IN EMERGING MEDIA AND TECHNOLOGY 3 Credit Hours**

Students will work through all levels of data analysis including accessing data, combining and cleaning datasets, describing data through report-writing and visualization, inferential statistics, and finally making data-based decisions and conveying those decisions to a lay audience.

This course uses Python 3 and R to process data and will introduce students to report writing, sharing, and documentation using LaTeX and RMarkdown. The focus of this course is to convey the strengths and limitations of both 'big' and 'small' data with an overarching goal of instilling ethical data practices for research and application.

**Prerequisite:** EMAT 15310.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**EMAT 23410 COGNITION IN TECHNOLOGY 3 Credit Hours**

Introduction to the basics in human cognition as they affect technology and as technology affects human cognition. Addresses designing technologies to fit and enhance cognition, augmenting cognition with technology, and cognitive tools, as well as the impact of technology on various cognitive processes.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**EMAT 26010 TELECOMMUNICATION INFRASTRUCTURE 3 Credit Hours**

Provides an overview of communications infrastructure for public switched telephone networks, wireless networks, and local area networks. Other topics covered include network routing, LAN concepts and technologies, VoIP, and PBX.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**EMAT 29995 SPECIAL TOPICS IN EMERGING MEDIA AND TECHNOLOGY 1-4 Credit Hours**

(Repeatable for credit) Analysis of significant and current issues in emerging media and technology not covered in regular courses. Offered when opportunities and resources permit; the topic is announced when the course is scheduled.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 1-4 lecture

**Grade Mode:** Standard Letter

**EMAT 30410 INFORMATION ETHICS AND SOCIAL RESPONSIBILITY 3 Credit Hours**

Investigates ethical and social responsibility issues related to information technology including the application of ethical theories to information technology; potential tensions between ethical and legal norms as well as those between competing ethical values; professional codes of ethics; access and control of intellectual property; issues of privacy including those raised by the US Patriot Act; network security and user protections (e.g. viruses, protecting minors, cyberbullying); and the digital divide, outsourcing and green computing.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**EMAT 31010 ENTERPRISE ARCHITECTURE 3 Credit Hours**

Enterprise architecture facilitates the alignment of IT and IS investment decisions with business goals. Enterprise architecture is increasingly used in the industry as a result of the continued emergence of new technologies and ongoing pressures to reengineer business processes to achieve improved efficiency and greater customer focus. Enterprise architecture identifies the main components of an organization and the ways in which these components work together. The components include performance and strategy, people, business capabilities, applications, technology, knowledge and information, as well as financial and other resources.

**Prerequisite:** Sophomore standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**EMAT 32110 MODERN WEB APPLICATION DEVELOPMENT 3 Credit Hours**

In this hands-on, project-based course students will be introduced to leading industry tools and frameworks being used to create commercial web applications today, including CSS frameworks, front-end frameworks, and command line tools. Lectures, coding demonstrations, and weekly assignments will culminate in a collaborative final project in which students will be asked to conceptualize, design and implement a web application in a collaborative, team setting.

**Prerequisite:** EMAT 22110 and VCD 21000.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**EMAT 33310 HUMAN-COMPUTER INTERACTION 3 Credit Hours**

A survey course intended to provide a broad foundation of HCI principles, concepts, and techniques. Focuses on understanding HCI through fundamental design concepts and applying these to a range of interface design problems. Covers the spectrum of a user-centered design process (research, sketching, prototyping, evaluation, etc). Balances a broad conceptual understanding of HCI with detailed interface design issues.

**Prerequisite:** Sophomore standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**EMAT 34410 DIGITAL INFORMATION MANAGEMENT AND PROCESSING 3 Credit Hours**

Introduces students to the discipline of information management and processing methods and tools that are available to support effective management of information within organizations. Aims to provide a pragmatic foundation of principles, practices and technologies that can be applied within commercial and government organizations to help improve information management.

**Prerequisite:** Sophomore standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**EMAT 35091 SEMINAR IN EMERGING MEDIA AND TECHNOLOGY 3 Credit Hours**

Society is driven, in part, by digital technology. The skills and techniques used in these fast-paced digital systems requires nimble and up-to-date skill sets. This course will cover a rotating list of timely topics including but not limited to mobile applications, content management systems, data visualizations, and cutting edge development frameworks. The student experience will vary based on the topics from the rotation.

**Prerequisite:** EMAT 10010 and EMAT 15310.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**EMAT 39995 SPECIAL TOPICS IN EMERGING MEDIA AND TECHNOLOGY 1-4 Credit Hours**

(Repeatable for credit) Analysis of significant and current issues in emerging media and technology not covered in regular courses. Offered when opportunities and resources permit; the topic is announced when the course is scheduled.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 1-4 lecture

**Grade Mode:** Standard Letter

**EMAT 40999 INTERDISCIPLINARY PROJECTS (ELR) 3 Credit Hours**

(Repeatable for credit) In this hands-on course, students work in collaborative, interdisciplinary teams to complete a technology-based project that provides an innovative solution to a real-world problem. Whenever possible, connections will be made to project-based courses in emerging media and technology and beyond.

**Prerequisite:** Junior standing.

**Schedule Type:** Project or Capstone

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**Attributes:** Experiential Learning Requirement

**EMAT 41510 PROJECT MANAGEMENT AND TEAM DYNAMICS (WIC) 3 Credit Hours**

(Slashed with EMAT 51510) Introduces students to the basic elements of project management as it relates to software development and the corporate environment. Although not formally endorsed by The Project Management Institute, the course aligns with the project management lifecycle approach endorsed in The Project Management Book of Knowledge.

**Prerequisite:** EMAT 15310 or CS 13001 or CS 13012 or CIS 24065; and junior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Writing Intensive Course

**EMAT 41610 DIGITAL SYSTEMS SECURITY 3 Credit Hours**

(Slashed with EMAT 51610) Provides students with an understanding of the techniques, approaches, strategies, and computer security tactics that are used to ensure computer-related assets are protected from potential cyber compromise and are integrated with the business function. This course does not focus on the technical aspects of security (e.g., details of the operating system, data structures, or networks) but instead focuses more on computer security in a business context.

**Prerequisite:** EMAT 15310 or CS 13001 or CS 13012 or CIS 24065; and junior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**EMAT 49991 SEMINAR IN EMERGING TECHNOLOGIES 1-3 Credit Hours**

(Slashed with EMAT 59991) Explores new and emerging technologies, examining each technology from multiple viewpoints representative of the interdisciplinary nature of emerging media and technology.

**Prerequisite:** Junior standing.

**Schedule Type:** Seminar

**Contact Hours:** 1-3 lecture

**Grade Mode:** Standard Letter

**EMAT 49992 INTERNSHIP IN EMERGING MEDIA AND TECHNOLOGY (ELR) 1-6 Credit Hours**

(Repeatable for a maximum of 6 credit hours) A credit-bearing work experience with educational outcomes, utilizing and enhancing a student's academic learning in practical occupational situations. The student is expected to complete pre-determined assignments, which may include a weekly journal, final paper, or experience report.

**Prerequisite:** Junior standing; and special approval.

**Schedule Type:** Practical Experience

**Contact Hours:** 3-18 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**Attributes:** Experiential Learning Requirement

**EMAT 49995 SPECIAL TOPICS IN EMERGING MEDIA AND TECHNOLOGY 1-4 Credit Hours**

(Repeatable for credit) Analysis of significant and current issues in emerging media and technology not covered in regular courses. Offered when opportunities and resources permit; the topic is announced when the course is scheduled.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 1-4 lecture

**Grade Mode:** Standard Letter

**EMAT 49996 INDIVIDUAL INVESTIGATION IN EMERGING MEDIA AND TECHNOLOGY 1-3 Credit Hours**

(Repeatable for a maximum of 6 credit hours) Independent study carried out by a student under the supervision of a faculty member. Subject content, objectives, assignments and evaluation methods may vary.

**Prerequisite:** Junior standing; and special approval.

**Schedule Type:** Individual Investigation

**Contact Hours:** 1-3 other

**Grade Mode:** Standard Letter-IP

**EMAT 51510 PROJECT MANAGEMENT AND TEAM DYNAMICS 3 Credit Hours**

(Slashed with EMAT 41510) This course introduces students to the basic elements of project management as it relates to software development and the corporate environment. Although not formally endorsed by The Project Management Institute ([www.PMI.org](http://www.PMI.org)), the course will align with the project management lifecycle approach endorsed in The Project Management Book of Knowledge.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**EMAT 51610 DIGITAL SYSTEMS SECURITY 3 Credit Hours**

(Slashed with EMAT 41610) Provides students with an advanced understanding of the techniques, approaches, strategies, and computer security tactics that are used to ensure computer-related assets are protected from potential cyber compromise and are integrated with the business function. This course does not focus on the technical aspects of security (e.g., details of the operating system, data structures, or networks) but instead focuses more on computer security in a business context.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**EMAT 59991 SEMINAR IN EMERGING TECHNOLOGIES 1-3 Credit Hours**

(Slashed with EMAT 49991) Explores new and emerging technologies, examining each technology from multiple viewpoints representative of the interdisciplinary nature of the emerging media and technology.

**Prerequisite:** Graduate standing.

**Schedule Type:** Seminar

**Contact Hours:** 1-3 other

**Grade Mode:** Standard Letter



**EMAT 59995 SPECIAL TOPICS IN EMERGING MEDIA AND TECHNOLOGIES 1-3 Credit Hours**

(Repeatable for credit) Analysis of significant and current issues in emerging media and technology not covered in regular courses. Offered when opportunities and resources permit; the topic is announced when the course is scheduled.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 1-3 lecture

**Grade Mode:** Standard Letter

**EMAT 60999 CAPSTONE PROJECT IN EMERGING MEDIA AND TECHNOLOGY 3 Credit Hours**

(Repeatable for credit) Provides an integrative experience, bringing together components of the required coursework in the major and concentration. Students perform individual work on a project, research paper, or practicum under the supervision of faculty from programs affiliated with the School of Emerging Media and Technology. Students must be in their final semester in the master's program to enroll in this course.

**Prerequisite:** Minimum overall GPA of 3.00; and graduate standing; and special approval.

**Schedule Type:** Project or Capstone

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**EMAT 61010 ENTERPRISE ARCHITECTURE 3 Credit Hours**

Explores the alignment of IT and IS investment decisions with business goals. Enterprise architecture is increasingly used in industry as a result of the continued emergence of new technologies and ongoing pressures to reengineer business processes to achieve improved efficiency and greater customer focus. Enterprise architecture identifies the main components of an organization and the ways in which these components work together. The components include performance and strategy, people, business capabilities, applications, technology, knowledge and information, as well as financial and other resources.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**EMAT 61310 ENTERPRISE ARCHITECTURE: ENTERPRISE ARCHITECTURE CENTER OF EXCELLENCE METHODOLOGY 2 Credit Hours**

Provides an introduction to the Enterprise Architecture Center of Excellence (EACOE) methodology for enterprise architecture and practical experience using that methodology. Students learn to model a business' current or desired future state using architectural models of goals, processes, materials, roles, locations and events. Implementation models are then developed to show relationships between architectural models, and the models are analyzed to identify move-ahead initiatives that include projects, gaps, overlaps and opportunities. These initiatives are prioritized to move the business to a desired future state. At the conclusion of the course, students have the option of submitting their course enterprise architecture artifacts to EACOE for certification. Pre/

**Prerequisite:** Graduate standing.

**Corequisite:** EMAT 61010.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**EMAT 61510 PROJECT MANAGEMENT LEADERSHIP 3 Credit Hours**

This course introduces advanced project management and project management leadership as it relates to software development and the corporate environment. The course focuses on the project management principles of effective planning, communication and motivation throughout the project lifecycle, and one key project management deliverable such as the project management plan. Although not formally endorsed by The Project Management Institute ([www.PMI.org](http://www.PMI.org)), the course will align with the project management lifecycle approach endorsed in The Project Management Book of Knowledge.

**Prerequisite:** EMAT 51510; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**EMAT 62010 BUSINESS ARCHITECTURE 3 Credit Hours**

Exploration of the concept of business architecture as the critical component of enterprise architecture. Students learn how to develop an enterprise business architecture, to apply business architecture principles, methods and artifacts to support business IT alignment and to support change management needed to implement roadmaps and initiatives based on the business architecture. Students learn how different enterprise architecture frameworks approach the business layer.

**Prerequisite:** EMAT 61010; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**EMAT 62210 WEB DEVELOPMENT 3 Credit Hours**

Beginning with basic coverage of HTML, CSS, PHP, this course continues to explore those topics along with MySQL, jQuery, JavaScript and others. The course will also explore other topics relevant to web development in digital sciences, including security principles, hierarchy and visual design, responsive design, accessibility issues, interaction design, social media, and legal issues.

**Prerequisite:** CS 61002 or CS 61003 or ENGR 56330; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**EMAT 64010 DATA ARCHITECTURE 3 Credit Hours**

Exploration of data modeling at the conceptual and logical level of abstraction within the context of enterprise architecture. Students learn to identify business needs in terms of data to gain a holistic view of organizational data. Students use Master Data Management (MDM) and approaches to define various data sources.

**Prerequisite:** EMAT 61010; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**EMAT 64210 DATA SCIENCE 3 Credit Hours**

Overview of the concept of data mining, machine learning, big data, and data analytics, including the business challenges of working with data to solve real-world business problems. Students become familiar with the Cross Industry Standard Process for Data Mining (CRISP-DM). Fundamental concepts include Business Problem Understanding, Data Understanding, Data Preparation, Modeling, Evaluation, and Deployment. Data analytics in industry verticals are discussed, including science, intelligence and law enforcement, health, retail and financial services.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**EMAT 65010 APPLICATION AND TECHNOLOGY ARCHITECTURE 3 Credit Hours**

Introduction to the concept of application and technology architectures in the context of enterprise architecture. Students learn how to define application and technology architecture principles and standards to support business performance, and to evaluate existing architectures in relation to performance goals. Students learn to work with application and technology artifacts and matrices, prepare a technology dictionary and develop an application architecture blueprint.

**Prerequisite:** EMAT 61010; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**EMAT 69199 THESIS I 2-6 Credit Hours**

(Repeatable for a maximum of 6 credits hours) Thesis students must register for a total of 6 hours and may take 2 to 6 hours per semester distributed over several semesters if desired.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Masters Thesis

**Contact Hours:** 2-6 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**EMAT 69299 THESIS II 2 Credit Hours**

(Repeatable for credit) Thesis students must continue registration each semester until all degree requirements are met.

**Prerequisite:** EMAT 69199; and graduate standing.

**Schedule Type:** Masters Thesis

**Contact Hours:** 2 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**EMAT 69992 INTERNSHIP IN EMERGING MEDIA AND TECHNOLOGY 1-3 Credit Hours**

(Repeatable for credit) A credit bearing work experience with educational outcomes, utilizing and enhancing a student's academic learning in practical occupational situations. The student is expected to complete pre-determined assignments, which may include a weekly journal, final paper or experience report.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Practical Experience

**Contact Hours:** 3-9 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**EMAT 69995 SPECIAL TOPICS IN EMERGING MEDIA AND TECHNOLOGY 1-4 Credit Hours**

(Repeatable for credit) Analysis of significant and current issues in digital sciences not covered in regular courses. Offered when opportunities and resources permit; the topic is announced when the course is scheduled.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 1-4 lecture

**Grade Mode:** Standard Letter

**EMAT 69996 INDIVIDUAL INVESTIGATION IN EMERGING MEDIA AND TECHNOLOGY 1-3 Credit Hours**

(Repeatable for credit) Independent study carried out by a student under the supervision of a faculty member. Subject content, objectives, assignments, and evaluation methods may vary.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Individual Investigation

**Contact Hours:** 1-3 other

**Grade Mode:** Standard Letter-IP

## Engineering (ENGR)

**ENGR 10001 INFORMATION TECHNOLOGY 3 Credit Hours**

Introduction to the operation and use of computer systems in technology-related applications. Laboratory assignments include the use of microcomputers for solving technical problems.

**Prerequisite:** None.

**Schedule Type:** Laboratory, Lecture, Combined Lecture and Lab

**Contact Hours:** 2 lecture, 2 lab

**Grade Mode:** Standard Letter

**ENGR 13585 COMPUTER AIDED ENGINEERING GRAPHICS 3 Credit Hours**

Introduction to 3D computer aided engineering graphics. Students will be able to create 3-D models and assemblies using a feature based parametric solid modeling CAD package. Students will learn concepts of engineering graphics as well as learn to generate, edit, and dimension drawing views.

**Prerequisite:** None.

**Schedule Type:** Laboratory, Lecture, Combined Lecture and Lab

**Contact Hours:** 1 lecture, 4 lab

**Grade Mode:** Standard Letter

**ENGR 15300 INTRODUCTION TO ENGINEERING ANALYSIS USING MATLAB® 2 Credit Hours**

Introduction to basic concepts in engineering analysis using the Matlab® computing language, the industry-standard "first language" for engineers. Introduction to algorithm coding and development, debugging, analysis and interpretation.

**Prerequisite:** None.

**Pre/corequisite:** MATH 12002.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**ENGR 15301 INTRODUCTION TO ENGINEERING ANALYSIS USING MATLAB® LAB 1 Credit Hour**

Laboratory session introducing basic concepts in engineering analysis using the Matlab® computing language, the industry-standard “first language” for engineers. Introduction to algorithm coding and development, debugging, analysis and interpretation.

**Pre/corequisite:** ENGR 15300.

**Schedule Type:** Laboratory

**Contact Hours:** 2 lab

**Grade Mode:** Standard Letter

**ENGR 15500 INTRODUCTION TO AEROSPACE ENGINEERING 3 Credit Hours**

Fundamentals of fluid mechanics, applied aerodynamics, propulsion systems, airplane performance, stability, orbital motion, and launch vehicle performance.

**Pre/corequisite:** MATH 12002.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ENGR 2000 PROFESSIONAL DEVELOPMENT IN ENGINEERING 1 Credit Hour**

Providing several direct opportunities for interviewing and networking with engineering industry professionals, the main goal of this course is to prepare students for internship and career opportunities. Students will also have opportunities to develop necessary financial literacy skills to succeed in post-graduate careers while detailing and implementing short, middle and long-term life goals as part of the life-long learning process.

**Prerequisite:** Sophomore standing.

**Schedule Type:** Lecture

**Contact Hours:** 1 lecture

**Grade Mode:** Standard Letter

**ENGR 20001 ENERGY/POWER 3 Credit Hours**

Study of basic thermodynamic laws and how they apply to the conversion and transfer of heat energy into useful power.

**Prerequisite:** ENGR 21020 and ENGR 21022.

**Schedule Type:** Laboratory, Lecture, Combined Lecture and Lab

**Contact Hours:** 2 lecture, 3 lab

**Grade Mode:** Standard Letter

**ENGR 20002 MATERIALS AND PROCESSES 3 Credit Hours**

Study and practice addressing the nature of basic manufacturing materials and the processes by which they are converted into manufactured products. Includes laboratory experience.

**Prerequisite:** None.

**Schedule Type:** Laboratory, Lecture, Combined Lecture and Lab

**Contact Hours:** 2 lecture, 4 lab

**Grade Mode:** Standard Letter

**ENGR 20004 FUNDAMENTALS OF CIRCUIT ANALYSIS 3 Credit Hours**

Analysis of DC and AC electrical circuits consisting of resistive and reactive components using the basic circuit theorems, descriptions of AC signals in terms of phasors, power and resonance in electrical circuits, transformers and polyphase systems.

**Prerequisite:** PHY 23102.

**Schedule Type:** Laboratory, Lecture, Combined Lecture and Lab

**Contact Hours:** 2 lecture, 2 lab

**Grade Mode:** Standard Letter

**ENGR 20005 INTRODUCTION TO CYBERSECURITY 3 Credit Hours**

This course will introduce the students to the fundamentals of Cybersecurity. Students will be able to develop an understanding of cybercrime, security principles, technologies, and procedures used to defend networks. This course will also explore cyber trends, threats, personal privacy.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ENGR 21020 SURVEY OF ELECTRICITY AND ELECTRONICS 3 Credit Hours**

Survey of DC and AC circuits, semiconductors and electronic devices, including microprocessors and embedded systems.

**Prerequisite:** MATH 11022 and PHY 13002.

**Corequisite:** ENGR 21022.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ENGR 21022 SURVEY OF ELECTRICITY AND ELECTRONICS LABORATORY 1 Credit Hour**

Laboratory experiments related to the course ENGR 21020.

**Prerequisite:** MATH 11022 and PHY 13002.

**Corequisite:** ENGR 21020.

**Schedule Type:** Laboratory

**Contact Hours:** 2 lab

**Grade Mode:** Standard Letter

**ENGR 23010 COMPUTER HARDWARE 3 Credit Hours**

Introduction to the hardware, architecture and operation of the personal computer and associated devices. Topics include personal computer architecture and operation fundamentals; basic hardware; data buses and ports; hardware component packaging; auxiliary hardware components; computer assembly; basic hardware installation and configuration; and basic troubleshooting. This course is aligned with A+ content. CompTIA A+ is the preferred qualifying credential for technical support and IT operational roles.

**Prerequisite:** EMAT 26010 or ENGR 26010.

**Schedule Type:** Laboratory, Lecture, Combined Lecture and Lab

**Contact Hours:** 2 lecture, 2 lab

**Grade Mode:** Standard Letter

**ENGR 23585 ADVANCED COMPUTER AIDED DESIGN 3 Credit Hours**

Advanced applications of 3D, feature based, parametric, solid modeling software including finite element analysis, simulation, parameters, motion and mechanisms, and other advanced tools in the design of parts and assemblies.

**Prerequisite:** ENGR 13585.

**Schedule Type:** Laboratory, Lecture, Combined Lecture and Lab

**Contact Hours:** 1 lecture, 4 lab

**Grade Mode:** Standard Letter

**ENGR 25200 STATICS 3 Credit Hours**

Forces and moments; equilibrium in two and three dimensions; multi-force members; equilibrium, centroids and friction.

**Prerequisite:** MATH 12003 and PHY 23101.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ENGR 25400 DYNAMICS 3 Credit Hours**

Kinematics and kinetics of rigid bodies in planar motion and an introduction to the kinematics and kinetics of rigid bodies in three-dimensional motion.

**Prerequisite:** ENGR 25200; and MATH 22005 or MATH 32051.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ENGR 25500 AERODYNAMICS FOR ENGINEERS I 3 Credit Hours**

Basic fluid dynamics concepts, conservation laws, potential, airfoil and wing analysis. Boundary layers on plates and airfoils. Pressure gradients. Introduction to turbulent and vortex-dominated flows.

**Prerequisite:** ENGR 15500; and MATH 22005 or MATH 32051 .

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ENGR 26010 INTRODUCTION TO COMPUTER ENGINEERING TECHNOLOGY 3 Credit Hours**

Describes Computer Engineering Technology concepts and principles. Topics include computer hardware, computer hardware operations, digital systems design, networking hardware, technology of networking, computer aided design and embedded systems.

**Pre/corequisite:** MATH 11022.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ENGR 26200 PROGRAMMING FOR ENGINEERS I 3 Credit Hours**

Introduction to engineering problem solving and use of programming language to solve those problems. Students are expected to develop basic mathematical modeling and engineering problem solving skills using mathematical tools and programming languages. Developing modeling and logical thinking are the core objective of this course.

**Prerequisite:** Sophomore standing.

**Schedule Type:** Laboratory, Lecture, Combined Lecture and Lab

**Contact Hours:** 2 lecture, 2 lab

**Grade Mode:** Standard Letter

**ENGR 26301 NETWORKING HARDWARE I 4 Credit Hours**

A hands-on, applied engineering-focused course emphasizing the operation, maintenance, and performance aspects of personal computer networking hardware. Topics include networking hardware operation, characteristics, configuration, and troubleshooting fundamentals. Course also includes network standards, protocols, configuration, topologies, and administrative fundamentals as related to networking hardware systems.

**Prerequisite:** ENGR 21020 (and ENGR 21022) or EMAT 26010 or ENGR 26010.

**Schedule Type:** Laboratory, Lecture, Combined Lecture and Lab

**Contact Hours:** 2 lecture, 4 lab

**Grade Mode:** Standard Letter

**ENGR 27100 FUNDAMENTALS OF OPERATING SYSTEMS FOR ENGINEERING 3 Credit Hours**

The course will prepare students to engineer, install, monitor and manage systems using open-source operating systems. The students will learn operating system fundamentals for engineering applications, including cybersecurity engineering applications. Students will also learn how to configure local storage, create and configure systems, deploy and maintain systems, manage users and groups, and manage security. Different types of open source operating systems that are relevant for engineering systems will be introduced to students, in conjunction with key tools used in cybersecurity engineering.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ENGR 27210 INTRODUCTION TO SUSTAINABILITY 3 Credit Hours**

Introduces the students to the concepts of sustainability and its three pillars, namely, economic growth, environmental protection, and social equality. Students taking the course will understand the language and concepts of sustainability and will acquire the knowledge to further study sustainability.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ENGR 31000 CULTURAL DYNAMICS TECHNOLOGY (DIVD) (WIC) 3 Credit Hours**

Study of technology and the forces it exerts upon society.

**Prerequisite:** ENG 21011.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Diversity Domestic, Writing Intensive Course

**ENGR 31010 ENGINEERING AND PROFESSIONAL ETHICS 3 Credit Hours**

Applications of codes of ethics in the engineering and technology professions reflective of social and moral responsibilities to the public, and accountability in engineering practice.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ENGR 31016 MANUFACTURING TECHNOLOGY 3 Credit Hours**

Classroom, laboratory and field experiences involving the major aspects of a manufacturing enterprise including product design, production financing and marketing.

**Prerequisite:** ENGR 10001 and ENGR 20002.

**Schedule Type:** Laboratory, Lecture, Combined Lecture and Lab

**Contact Hours:** 2 lecture, 3 lab

**Grade Mode:** Standard Letter

**ENGR 31020 AUTOMATED MANUFACTURING 3 Credit Hours**

Theory and operation of computer controlled machine tools, robots and processes.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ENGR 31032 POWER TECHNOLOGY 3 Credit Hours**

Principles of energy conversion and power application. Overview of basic heat engines, machines and transmission devices. Alternative energy systems and conservation techniques.

**Prerequisite:** ENGR 20001 and ENGR 20004.

**Schedule Type:** Laboratory, Lecture, Combined Lecture and Lab

**Contact Hours:** 2 lecture, 2 lab

**Grade Mode:** Standard Letter

**ENGR 31065 CAST METALS 3 Credit Hours**

Principles and processes of metal casting with a focus on current industrial practices. Includes laboratory experience with nonferrous metals and industrial tours.

**Prerequisite:** ENGR 20002.

**Schedule Type:** Laboratory, Lecture, Combined Lecture and Lab

**Contact Hours:** 5 other

**Grade Mode:** Standard Letter

**ENGR 31067 MACHINING TECHNOLOGY I 3 Credit Hours**

Lecture and laboratory experiences in basic machine tool principles and processes.

**Prerequisite:** None.

**Schedule Type:** Laboratory, Lecture, Combined Lecture and Lab

**Contact Hours:** 5 other

**Grade Mode:** Standard Letter

**ENGR 32002 MATERIALS AND PROCESSES II 3 Credit Hours**

Advanced study and practice in materials and processes. Emphasis will be upon developing skills and knowledge in producing a product and conducting problem solving activities.

**Prerequisite:** ENGR 20002.

**Schedule Type:** Laboratory, Lecture, Combined Lecture and Lab

**Contact Hours:** 7 other

**Grade Mode:** Standard Letter

**ENGR 32101 POLYMERS I 3 Credit Hours**

Description of various polymers, thermoplastics and thermosets. Processes used to produce products. Outline of polymer chemistry including methods of testing and identification.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ENGR 33010 COMPUTER HARDWARE FOR ANIMATION 3 Credit Hours**

Students will gain a complete, step-by-step approach for learning the fundamentals of supporting and troubleshooting computer hardware. Throughout this course, students will learn the technical skills for PC configuration and troubleshooting. Finally, the students will be exposed to the concepts of Animation and Design through exploring Deep learning concepts, GPUs benchmark tests, peripherals and gaming platforms.

**Prerequisite:** Junior standing.

**Schedule Type:** Laboratory, Lecture, Combined Lecture and Lab

**Contact Hours:** 2 lecture, 2 lab

**Grade Mode:** Standard Letter

**ENGR 33016 PC/NETWORK ENGINEERING AND TROUBLESHOOTING 3 Credit Hours**

Covers the service, maintenance, upgrade and optimization of personal computers. Specification, installation and maintenance of local area networks are covered. Students learn communication protocols and network architecture. Two lectures and two labs a week.

**Prerequisite:** EERT 22014 or ENGR 33010.

**Schedule Type:** Laboratory, Lecture, Combined Lecture and Lab

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**ENGR 33020 COMPUTER HARDWARE II 3 Credit Hours**

An in-depth look at personal computer design and hardware components, and an introduction to the fundamentals of personal computer networks.

Topics include the operation, assembly, configuration, diagnosis, and unit-level troubleshooting of personal computers and their associated hardware components. Also includes an introduction to PC network configuration, hardware, and troubleshooting fundamentals.

**Prerequisite:** ENGR 23010.

**Schedule Type:** Laboratory, Lecture, Combined Lecture and Lab

**Contact Hours:** 2 lecture, 2 lab

**Grade Mode:** Standard Letter

**ENGR 33031 PROGRAMMABLE LOGIC CONTROLLERS 3 Credit Hours**

An introduction to programmable logic controllers (PLCs) covering hardware, ladder logic programming, networking and communications. Programming timers, counters and sequencers and an introduction to human machine interfaces (HMIS).

**Prerequisite:** ENGR 10001, ENGR 21020 and ENGR 21022.

**Schedule Type:** Laboratory, Lecture, Combined Lecture and Lab

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**ENGR 33032 PROGRAMMABLE LOGIC CONTROLLERS II 3 Credit Hours**

Advanced principles and applications of programmable logic controllers with a focus on using sequential function charts to control complex industrial processes. Includes real time control issues, PLC networking, programming languages other than ladder logic, standards, motion control, supervisory control and data acquisition, process control, alarm management, power failure strategies and safety.

**Prerequisite:** ENGR 33031.

**Schedule Type:** Laboratory, Lecture, Combined Lecture and Lab

**Contact Hours:** 2 lecture, 2 lab

**Grade Mode:** Standard Letter

**ENGR 33033 HYDRAULICS/PNEUMATICS 3 Credit Hours**

Fluid properties, hydraulic design, viscosity, hydraulic components, pumps, systems and circuits, maintenance and safety, pneumatics, air systems control and design.

**Prerequisite:** PHY 13001 or PHY 23101.

**Schedule Type:** Laboratory, Lecture, Combined Lecture and Lab

**Contact Hours:** 2 lecture, 2 lab

**Grade Mode:** Standard Letter



**ENGR 33040 CONTROL SYSTEMS 3 Credit Hours**

Analysis of mathematical models of feedback control systems. Includes introduction to basic control system terms and devices, open loop and closed loop control, Laplace transforms, static and dynamic response, stability and performance of control systems, frequency response analysis, Bode plot, root locus.

**Prerequisite:** MATH 12002; and ENGR 20004 or ENGR 21020 (and ENGR 21022).

**Schedule Type:** Laboratory, Lecture, Combined Lecture and Lab

**Contact Hours:** 2 lecture, 2 lab

**Grade Mode:** Standard Letter

**ENGR 33092 COOPERATIVE EDUCATION - PROFESSIONAL DEVELOPMENT (ELR) (WIC) 1-3 Credit Hours**

(Repeatable for a maximum of 6 credit hours) Supervised work-study experience in approved business or industrial environment relative to the student's major. A 3 credit hour co-op experience must be for a period of at least 12 consecutive weeks at 40 hours per week, or 30 hours per week for 15 weeks, totaling not less than 450 hours. Most co-ops occur during the summer. Students can earn up to an additional 3 credit hours (one to three per co-op – 150 work hours per credit hour) over the course of their college career as long as each co-op has a different focus.

**Prerequisite:** Minimum 2.250 overall GPA; and sophomore standing; and special approval.

**Schedule Type:** Practical Experience

**Contact Hours:** 10-30 other

**Grade Mode:** Standard Letter-IP

**Attributes:** Experiential Learning Requirement, Writing Intensive Course

**ENGR 33095 SPECIAL TOPICS: APPLIED SCIENCE AND TECHNOLOGY 1-3 Credit Hours**

(Repeatable for credit) Special topics of immediate interest in applied science and technology.

**Prerequisite:** Junior standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 1-3 lecture

**Grade Mode:** Standard Letter

**ENGR 33111 STATICS AND STRENGTH OF MATERIALS 3 Credit Hours**

An algebra based analytical study of equilibrium of extended 2-dimensional bodies, the concepts of elastic and thermal properties of materials, centroid and moment of inertia, and the relationship between the external forces applied to extended objects (generally beams and columns) and the resulting bending and shear stresses, the resulting strains and deformation of the object.

**Prerequisite:** PHY 13001 or PHY 23101.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ENGR 33220 ELECTRONIC DEVICES 4 Credit Hours**

Introduction to electronic non-linear devices including, diodes, transistors, optoelectronic devices and operational amplifiers. Use and application of these devices in different types of application like rectifiers, amplifiers and linear integrated circuits.

**Prerequisite:** ENGR 20004.

**Schedule Type:** Laboratory, Lecture, Combined Lecture and Lab

**Contact Hours:** 3 lecture, 2 lab

**Grade Mode:** Standard Letter

**ENGR 33222 DIGITAL DESIGN FOR COMPUTER ENGINEERING 3 Credit Hours**

Introduction to digital design. The operation and use of digital devices and components as used in microprocessors and digital computers. Topics include binary arithmetic operations, Boolean algebra, logic gates, combinational and sequential logic, buffers, registers, memory devices. Students are exposed to applied problem solving via basic programming with microcontrollers and microprocessors.

**Prerequisite:** ENGR 21020.

**Schedule Type:** Laboratory, Lecture, Combined Lecture and Lab

**Contact Hours:** 2 lecture, 2 lab

**Grade Mode:** Standard Letter

**ENGR 33223 ELECTRONIC COMMUNICATION 3 Credit Hours**

Principles of digital and analog telecommunications and data signals. Topics include electromagnetic signal time and frequency characteristics, signal propagation, signal modulation, transmission lines, wireless signals, antennas, digital signal characteristics and protocols, signal multiplexing, microwave devices and applications.

**Prerequisite:** ENGR 21020 and ENGR 21022.

**Schedule Type:** Laboratory, Lecture, Combined Lecture and Lab

**Contact Hours:** 2 lecture, 2 lab

**Grade Mode:** Standard Letter

**ENGR 33225 INDUSTRIAL CONTROL SYSTEMS 3 Credit Hours**

The application of electronics to the control of industrial machines and processes. Includes laboratory.

**Prerequisite:** ENGR 33220.

**Schedule Type:** Laboratory, Lecture, Combined Lecture and Lab

**Contact Hours:** 2 lecture, 2 lab

**Grade Mode:** Standard Letter

**ENGR 33320 APPLIED EMBEDDED SYSTEMS I 3 Credit Hours**

Course builds upon the content of several other applied engineering courses to establish a foundation for students to utilize embedded systems for engineering problem solving. Students are exposed to the history of the microcontroller that is at the heart of modern embedded systems. Student learn about the different classes of embedded systems and form a foundation from which they can begin to develop solutions to simple, but real-world, problems using simple embedded microcontrollers, electronic devices and sensors. Basic coding principals are explained from an engineering problem-solving perspective.

**Prerequisite:** ENGR 21020, ENGR 21022, ENGR 26200 and ENGR 33222.

**Schedule Type:** Laboratory, Lecture, Combined Lecture and Lab

**Contact Hours:** 2 lecture, 2 lab

**Grade Mode:** Standard Letter

**ENGR 33333 INDUSTRIAL ROBOTICS 3 Credit Hours**

Classification, characteristics, and functions of industrial robots. Covers basic safety precautions for working with robots. Laboratory time will be spent programming FANUC industrial robots and utilizing FANUC robot teach pendants. Students will have the opportunity to obtain a FANUC Robotics Handling Tool Operation and Programming Certificate of Completion.

**Prerequisite:** PHY 13002.

**Schedule Type:** Laboratory, Lecture, Combined Lecture and Lab

**Contact Hours:** 2 lecture, 2 lab

**Grade Mode:** Standard Letter

**ENGR 33363 MATERIALS SCIENCE AND TECHNOLOGY 3 Credit Hours**

Scientific study of modern manufacturing materials (metals, plastics and ceramics) and the laboratory test methods used to determine their manufacturing specifications and properties.

**Prerequisite:** Junior standing.

**Schedule Type:** Laboratory, Lecture, Combined Lecture and Lab

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**ENGR 33657 INTRODUCTION TO LEAN SIX SIGMA 3 Credit Hours**

An introduction to lean six sigma. Including understanding the systems, measuring and defining performance, analyzing, improving, and controlling processes, and leading six sigma initiatives.

**Prerequisite:** MATH 11010.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ENGR 33700 QUALITY TECHNIQUES 3 Credit Hours**

Introduction to quality management and the tools and techniques including the basic tools identified by ASQ (American Society for Quality) as well as an introduction to Lean and Six Sigma. Information presented helps prepare the student to qualify for the Quality Process Analyst Certification.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ENGR 33870 FACILITY DESIGN AND MATERIAL HANDLING 3 Credit Hours**

Provides students with a fundamental understanding of how layout affects the flow through a system. Both qualitative and quantitative tools are presented for complete approach to facility design and material handling.

**Prerequisite:** Junior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ENGR 34002 ADVANCED COMPUTER-AIDED DESIGN II 3 Credit Hours**

Continuation of AGD 22000 with an emphasis on the use of a Parametric-based CAD software (Pro/Engineer) for the design and modeling of industrial products.

**Prerequisite:** AGD 22000 and MERT 12001.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ENGR 35200 THERMAL FLUID ENGINEERING 3 Credit Hours**

First and Second Law of Thermodynamics for closed and open systems. Fundamentals of fluid mechanics and heat transfer.

**Prerequisite:** MATH 22005 or MATH 32051; and PHY 23101.

**Corequisite:** ENGR 35201.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ENGR 35201 THERMAL FLUID ENGINEERING LABORATORY 1 Credit Hour**

Laboratory demonstrations and experiments for various heat transfer and fluid dynamics concepts.

**Prerequisite:** None.

**Corequisite:** ENGR 35200.

**Schedule Type:** Laboratory

**Contact Hours:** 2 lab

**Grade Mode:** Standard Letter

**ENGR 35300 AEROSPACE VEHICLE PERFORMANCE I 3 Credit Hours**

Performance analysis of fixed-wing and rotary-wing aircraft. Equations of motion, evaluation of forces, and performance calculations. Steady and accelerated flight performance.

**Prerequisite:** ENGR 25500; and MATH 32044 or MATH 32052.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ENGR 35400 SYSTEM DYNAMICS AND CONTROL 3 Credit Hours**

Dynamic modeling and response of systems with mechanical, hydraulic, electrical, and or thermal elements. Classical methods of feedback control system design and analysis.

**Prerequisite:** MATH 32044 or MATH 32052; and minimum C grade in ENGR 25400.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ENGR 35500 SIGNALS AND CIRCUITS 3 Credit Hours**

An introduction to electric circuit elements and electronic devices and a study of circuits containing such devices. Both analog and digital systems are considered.

**Prerequisite:** PHY 23102.

**Corequisite:** ENGR 35501.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ENGR 35501 SIGNALS AND CIRCUITS LABORATORY 1 Credit Hour**

Laboratory demonstrations and experiments for electrical circuits, data acquisition, and signal measurements.

**Corequisite:** ENGR 35500.

**Schedule Type:** Laboratory

**Contact Hours:** 2 lab

**Grade Mode:** Standard Letter

**ENGR 35550 LAW AND ETHICS FOR ENGINEERS 3 Credit Hours**

This course examines legal and ethical issues in engineering design. Special focus will be given to Negligence Law, Strict Product Liability Law, Design and Manufacturing defects, Patent, Copyright and Trademark law. Employment law and whistleblower protection will be discussed in the context of the engineer. Special focus will be given through the examination of case studies including but not limited to the Space Shuttle Challenger disaster, the Space Shuttle Columbia Disaster, the Boeing 737 Max crashes.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ENGR 35600 AERODYNAMICS FOR ENGINEERS II 3 Credit Hours**

Compressible flow relationships; compressibility effects on airfoil and wing aerodynamics; shock waves; boundary layer effects on aircraft performance.

**Prerequisite:** ENGR 25500; and MATH 32044 or MATH 32052.

**Pre/corequisite:** ENGR 35200.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ENGR 35765 QUALITY AND RELIABILITY ENGINEERING 3 Credit Hours**

Introduction to reliability and quality engineering with an emphasis on manufacturing and techniques for improving quality and reliability. Includes reliability, reliability prediction, quality techniques, modeling statistical process control, control charts, sampling, experimental design, and designing and manufacturing for quality and reliability.

**Prerequisite:** MATH 11010.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ENGR 36200 PROGRAMMING FOR ENGINEERS II 3 Credit Hours**

Emphasizes engineering problems and applications of programming language and mathematical tools to analyze and solve them. Students are expected to learn problem solving techniques, modeling, simulation, presentation of engineering application oriented problems using programming languages. Advanced modeling, simulations and analysis are the core objective of this course.

**Prerequisite:** ENGR 26200; and junior standing.

**Schedule Type:** Laboratory, Lecture, Combined Lecture and Lab

**Contact Hours:** 2 lecture, 2 lab

**Grade Mode:** Standard Letter

**ENGR 36302 NETWORKING HARDWARE II 3 Credit Hours**

Continuation of ENGR 26301. In-depth coverage of personal computer-based enterprise networking systems hardware with a focus on network hardware and software configuration, fault analysis, diagnostics, and troubleshooting. Topics include router and switch operation, programming, configuration, and troubleshooting, along with overall enterprise network maintenance, troubleshooting, and repair. Course also includes WAN and VLAN fundamentals, intermediate TCP\_IP, and network administration and maintenance as related to fielding and maintaining networking hardware components and systems.

**Prerequisite:** ENGR 26301.

**Schedule Type:** Laboratory, Lecture, Combined Lecture and Lab

**Contact Hours:** 2 lecture, 2 lab

**Grade Mode:** Standard Letter

**ENGR 36337 INFORMATION TECHNOLOGY SECURITY 3 Credit Hours**

This course provides the foundation for understanding the key issues associated with protecting information assets. It covers the essential principles for information security and risk management; making it an important stepping stone of an IT security career. The course is supported with case based industry problems and their solutions through simulation based labs. Additionally, this course prepares students for CompTIA's Security+ SY0-501 certification exam.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ENGR 36620 PROJECT MANAGEMENT IN ENGINEERING AND TECHNOLOGY 3 Credit Hours**

The planning, organizing, directing, and controlling of company technology resources for project-based management functions. Includes project coordination requirements, management and planning methods and the use of various management and planning tools.

**Prerequisite:** Junior or senior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ENGR 37666 KINEMATICS AND DYNAMICS OF MAC 3 Credit Hours**

The study of the kinematics and dynamics of machinery with an emphasis on links, cams and gears.

**Prerequisite:** MATH 32051.

**Corequisite:** MATH 32052.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ENGR 41055 INDUSTRIAL PRACTICE 1-8 Credit Hours**

(Repeatable for credit) Practical experience in industry of cooperative work-study nature.

**Prerequisite:** Junior standing.

**Schedule Type:** Practical Experience

**Contact Hours:** 1-8 other

**Grade Mode:** Standard Letter

**ENGR 41065 SOLID MODELING AND SOLIDIFICATION 3 Credit Hours**

Introduction to casting simulation software with emphasis on projects related to design and filling of casting molds.

**Prerequisite:** ENGR 31065 and ENGR 34002.

**Schedule Type:** Laboratory, Lecture, Combined Lecture and Lab

**Contact Hours:** 2 lecture, 2 lab

**Grade Mode:** Standard Letter

**ENGR 41093 VT WKSP-TECH 1-3 Credit Hours**

(Repeatable for credit) (Slashed with ENGR 51093) Specialized instructional unit oriented toward the application of current technology concepts.

**Prerequisite:** None.

**Schedule Type:** Workshop

**Contact Hours:** 1-3 other

**Grade Mode:** Standard Letter

**ENGR 42100 TRAINING TOPICS IN TECHNOLOGY 1-4 Credit Hours**

(Repeatable for credit) Specialized advanced instruction oriented primarily to the theoretical base and application of current technology developed by experts in the specific technology. This course requires substantial base knowledge.

**Prerequisite:** Special approval.

**Schedule Type:** Lecture

**Contact Hours:** 1-4 lecture

**Grade Mode:** Standard Letter

**ENGR 42111 STRENGTH OF MATERIALS FOR ENGINEERS 3 Credit Hours**

(Slashed with ENGR 52111 and ENGR 72111) The mathematical study of how materials respond to external forces. Stress, strain, torsion; deformation of thin-walled pressure vessels, beams, and columns; and an introduction to energy methods.

**Prerequisite:** ENGR 25200, MATH 32051 and MATH 32052.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ENGR 42200 RADIATION PROCESSING OF MATERIALS 3 Credit Hours**

Description of the radiation sources used in radiation technology and the study of the effects of electrons and gamma rays on materials of technological interest. Experiments deal with the effects of radiation in different materials.

**Prerequisite:** PHY 13002 or PHY 12202; and MATH 12002 or MATH 19002; and ENGR 33363.

**Schedule Type:** Laboratory, Lecture, Combined Lecture and Lab

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**ENGR 42363 MATERIALS SELECTION IN DESIGN AND APPLICATIONS 3 Credit Hours**

Description and analysis of procedures for selecting appropriate materials for a particular mechanical design. The affect of processing on material properties, introduction to materials science for users of materials. Extensive case studies of materials selection and materials and sustainability.

**Prerequisite:** ENGR 20002, MATH 32052 and PHY 23102.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ENGR 42400 RADIATION DOSIMETRY AND SAFETY 3 Credit Hours**

(Slashed with ENGR 52400) Basic concepts of dosimetry and its units as applied to radiation technology, including theory of dosimeter response and use of dosimeters in radiation environments. Safety principles and practices followed in radiation environments, including terminology, maximum exposure limits, and procedures to minimize exposure to radiation.

**Prerequisite:** ENGR 42200.

**Schedule Type:** Laboratory, Lecture, Combined Lecture and Lab

**Contact Hours:** 2 lecture, 2 lab

**Grade Mode:** Standard Letter

**ENGR 43016 ADVANCED PC-NETWORK ENGINEERING AND TROUBLESHOOTING 3 Credit Hours**

An in-depth look at the architecture, operation, configuration, fault analysis, troubleshooting and repair of personal computer and computer network hardware components. Topics include the operation, assembly, configuration, diagnosis, and unit-level troubleshooting of personal computer hardware, computer networking hardware, and related hardware components.

**Prerequisite:** ENGR 33020 and ENGR 36302.

**Schedule Type:** Laboratory, Lecture, Combined Lecture and Lab

**Contact Hours:** 2 lecture, 2 lab

**Grade Mode:** Standard Letter

**ENGR 43026 MICROPROCESSOR SYSTEMS 4 Credit Hours**

(Slashed with ENGR 53026) Introduction to the architecture, operation and applications of an advanced microprocessor, focusing on assembly language programming and interfacing of standard programmable peripherals.

**Prerequisite:** ENGR 33222 and ENGR 46330.

**Schedule Type:** Laboratory, Lecture, Combined Lecture and Lab

**Contact Hours:** 3 lecture, 2 lab

**Grade Mode:** Standard Letter

**ENGR 43030 MECHATRONICS 3 Credit Hours**

Application of automation concepts in motion control, electrical circuits, fundamental mechanics, control systems and programming including modeling, interfacing and signal conditioning.

**Prerequisite:** PHY 23102 and ENGR 33040.

**Pre/corequisite:** ENGR 33031.

**Schedule Type:** Laboratory, Lecture, Combined Lecture and Lab

**Contact Hours:** 2 lecture, 2 lab

**Grade Mode:** Standard Letter

**ENGR 43031 MECHATRONICS II 3 Credit Hours**

Advanced modeling, system response, closed loop control and system software for mechatronic systems.

**Prerequisite:** ENGR 43030.

**Schedule Type:** Laboratory, Lecture, Combined Lecture and Lab

**Contact Hours:** 2 lecture, 2 lab

**Grade Mode:** Standard Letter

**ENGR 43050 INVENTIVE PROBLEM SOLVING 3 Credit Hours**

Theory of Inventive Problem Solving, TRIZ, is a collection of powerful problem-solving tools for a broad range of inventive problems. Capstone web-based course for students finishing their bachelor's degree. Assists students in utilizing material learned in earlier courses to solve many real world problems in multiple disciplines.

**Prerequisite:** Junior or senior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ENGR 43060 MANAGEMENT OF TECHNOLOGY INNOVATION 3 Credit Hours**

Subjects covered in this course are case studies of innovative companies, elements of an innovation process, review of major problem solving methods, technical opportunity analysis, technical planning, technological forecasting, concept development and elements of patents. A project is included that utilizes TRIZ software and innovation model elements.

**Prerequisite:** Junior or senior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ENGR 43080 INDUSTRIAL AND ENVIRONMENTAL SAFETY 3 Credit Hours**

Examines the occupational safety and health act and fundamentals of industrial safety programs.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ENGR 43096 INDIVIDUAL INVESTIGATION IN APPLIED SCIENCE AND TECHNOLOGY 1-3 Credit Hours**

(Repeatable for credit) Work study of an individual nature on a topic in a field of applied science and technology.

**Prerequisite:** Junior standing; and special approval.

**Schedule Type:** Individual Investigation

**Contact Hours:** 1-3 other

**Grade Mode:** Standard Letter-IP



**ENGR 43220 ELECTRICAL MACHINERY 3 Credit Hours**

Principles of operation and application of motors, generators, transformers and other magnetic devices; electrical power generation, distribution and use.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ENGR 43221 DIGITAL CONTROL SYSTEMS AND INSTRUMENTATION 4 Credit Hours**

(Slashed with ENGR 53221) Focuses on applications of instrumentation and control systems using computers and microcontrollers including sensors, transducers, instruments, data acquisition boards, software programs, signal conditioning and transmission methods.

**Prerequisite:** MATH 12003 and PHY 23102 and ENGR 43026.

**Pre/corequisite:** ENGR 33223.

**Schedule Type:** Laboratory, Lecture, Combined Lecture and Lab

**Contact Hours:** 3 lecture, 2 lab

**Grade Mode:** Standard Letter

**ENGR 43222 COMPUTER HARDWARE ENGINEERING AND ARCHITECTURE 3 Credit Hours**

(Slashed with ENGR 53222) Internal architecture and operation of digital computers. Topics include computer processor datapaths and control, computer memory datapaths and control, pipelining and parallel processing, memory architecture and management, IO control, system bus architecture and properties, storage systems, and computer control timing and synchronization. Students gain understanding in how system software manages system resources and abstracts programming requirements. Alternative architectures such as embedded systems and SoC platforms are discussed. Industry standards for calculating system performance are used.

**Prerequisite:** EMAT 26010 or ENGR 33222.

**Schedule Type:** Laboratory, Lecture, Combined Lecture and Lab

**Contact Hours:** 2 lecture, 2 lab

**Grade Mode:** Standard Letter

**ENGR 43320 APPLIED EMBEDDED SYSTEMS II 3 Credit Hours**

This course serves as an extension of ENGR 33333. The student will develop advanced engineering problem solving techniques using embedded system microcontrollers. Further programming in Embedded C is supported by this practical problem solving approach. Assembler language is discussed to solve specific hardware issues. A broad survey of special use computing hardware such as FPGAs, ASICs and SoC platforms is covered with basic approaches to leverage and program these devices.

**Prerequisite:** ENGR 33333 and ENGR 36200.

**Schedule Type:** Laboratory, Lecture, Combined Lecture and Lab

**Contact Hours:** 2 lecture, 2 lab

**Grade Mode:** Standard Letter

**ENGR 43550 COMPUTER-AIDED MANUFACTURING 3 Credit Hours**

(Slashed with ENGR 53550) The application of computers to the preparation of machine tool control programs.

**Prerequisite:** ENGR 10001 or ENGR 26010; and ENGR 20002.

**Schedule Type:** Laboratory, Lecture, Combined Lecture and Lab

**Contact Hours:** 5 other

**Grade Mode:** Standard Letter

**ENGR 43580 COMPUTER-AIDED MACHINE DESIGN 3 Credit Hours**

Application of the principles of mechanics and strength of materials, with computer assistance to the design and selection of machine components under both static and dynamic loads.

**Prerequisite:** ENGR 10001 or ENGR 26010; and ENGR 33111 and ENGR 34002 and MATH 12002 and PHY 13001.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ENGR 43700 COMPUTER-INTEGRATED MANUFACTURING 3 Credit Hours**

(Slashed with ENGR 53700) Study of the computer-integrated manufacturing system as it relates to product design, estimating inventory, machining and assembly, quality control and distribution.

**Prerequisite:** ENGR 43550.

**Schedule Type:** Laboratory, Lecture, Combined Lecture and Lab

**Contact Hours:** 5 other

**Grade Mode:** Standard Letter

**ENGR 43899 APPLIED ENGINEERING TECHNOLOGY SEMINAR 3 Credit Hours**

As the capstone course in Applied Engineering and Mechanical Engineering Technology, students will develop and participate in all aspects of a project involving the solution of a problem through application of technology. Students must pass the ATMAE Certified Technology Manager (CTM) exam.

**Prerequisite:** Applied engineering major or mechanical engineering technology major; and senior standing.

**Schedule Type:** Project or Capstone, Seminar

**Contact Hours:** 1 lecture, 2 other

**Grade Mode:** Standard Letter

**ENGR 44000 ANDROID DEVELOPMENT TOOLS FOR INSTRUMENT CONTROL 3 Credit Hours**

The Android Development Tools for Instrument Control course examines the principles of application design and development for instrument control. More specifically, this course's focus on device control using various android tools, for example, robots. Students will learn how to control and manage hardware using android tools. Topics will include android architecture, security, different types of hardware devices and their architecture.

**Prerequisite:** ENGR 26200 or ENGR 46330; and senior standing.

**Schedule Type:** Laboratory, Lecture, Combined Lecture and Lab

**Contact Hours:** 2 lecture, 2 lab

**Grade Mode:** Standard Letter

**ENGR 45099 CAPSTONE: FOUNDRY TOOLING AND PATTERN MAKING (ELR) 3 Credit Hours**

Capstone course for Applied Engineering Foundry Technology concentration. A project based lecture-lab focused on production of foundry tooling, testing, and quality approval.

**Prerequisite:** ENGR 41065 and ENGR 43550.

**Schedule Type:** Laboratory, Lecture, Combined Lecture and Lab, Project or Capstone

**Contact Hours:** 2 lecture, 2 lab

**Grade Mode:** Standard Letter

**Attributes:** Experiential Learning Requirement



**ENGR 45121 AEROSPACE PROPULSION FOR ENGINEERING AND ENGINEERING TECHNOLOGY 3 Credit Hours**

An in-depth study of gas turbine engines, rockets, and hypersonic propulsion systems used in aerospace applications. Includes propulsion system design and operation, and the analysis of performance characteristics.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ENGR 45151 APPLIED FLIGHT DYNAMICS II 3 Credit Hours**

Aerodynamics, flight dynamics, and flight performance of high performance aircraft. Course includes supersonic aerodynamics, flight stability and handling, and an in-depth investigation and analysis of flight performance parameters including lift, drag, load factor, climb performance, and turn performance.

**Prerequisite:** AERN 45150.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter-IP

**ENGR 45600 AEROSPACE VEHICLE PERFORMANCE II 3 Credit Hours**

Three-dimensional aircraft rigid body dynamics, aircraft equations of motion, principles of static stability and control, dynamic stability of uncontrolled motion, gyroscopic instruments.

**Prerequisite:** A minimum C grade in ENGR 25500 and ENGR 35400.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ENGR 45700 AIRCRAFT DESIGN (ELR) 3 Credit Hours**

(Slashed with AERN 55700) First of a two-course series of aerospace design. Preliminary design or case study of an aerospace vehicle, including but not limited to, aircraft, rotorcraft and spacecraft.

Primary focus on introduction to design, decision-making in design and preliminary sizing of an aerospace vehicle to meet customer requirements. Final technical report and presentation.

**Prerequisite:** (AERN 45030 and AERN 45150 and ENGR 45121) or (ENGR 35300 and ENGR 35500 and ENGR 45121).

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Experiential Learning Requirement

**ENGR 45850 AIRCRAFT DESIGN II (WIC) 3 Credit Hours**

Second of a two-course series of aerospace design. Preliminary design or case study of an aerospace vehicle, including but not limited to aircraft, rotorcraft, and spacecraft. Primary focus on sub-system design (i.e., propulsion, structure, controls, etc.), and overall vehicle integration of these subsystems. Cost analysis and safety analysis. Final technical report and or model prototype.

**Prerequisite:** ENGR 45600 and ENGR 45700.

**Pre/corequisite:** AERN 45900.

**Schedule Type:** Laboratory, Lecture, Combined Lecture and Lab

**Contact Hours:** 2 lecture, 2 lab

**Grade Mode:** Standard Letter

**Attributes:** Writing Intensive Course

**ENGR 45901 INTRODUCTION TO FINITE ELEMENT METHOD AND APPLICATIONS 3 Credit Hours**

(Slashed with ENGR 55901 and ENGR 75901) The objective of this course is to teach in a unified manner the fundamentals of the finite element method for the analysis of engineering problems arising in solids and structures. The course will emphasize the solution of real-life problems using the finite element method and students will get exposure to commercial finite element software (ANSYS or ABAQUS) and will learn to critically evaluate finite element models. Examples will be provided for solid, fluid, and heat transfer applications. Finally, developing an understanding of the computational aspects of the finite-element method and its application in realistic aerospace applications are the core goals of this course. Prerequisite: MATH 32044 or MATH 32052; and senior standing

**Schedule Type:** Laboratory, Lecture, Combined Lecture and Lab

**Contact Hours:** 2 lecture, 2 lab

**Grade Mode:** Standard Letter

**ENGR 46099 COMPUTER ENGINEERING TECHNOLOGY CAPSTONE 3 Credit Hours**

The course provides students with an integrative experience, applying aspects of the student's required coursework in computer engineering technology. Students gain experience in developing requirements in engineering specifications for a practical problem in networking and or telecom-related projects. This course will address emerging issues, capabilities and challenges in the current field of study.

**Prerequisite:** Senior standing.

**Pre/corequisite:** ENGR 46350.

**Schedule Type:** Laboratory, Lecture, Combined Lecture and Lab, Project or Capstone

**Contact Hours:** 2 lecture, 2 lab

**Grade Mode:** Standard Letter

**ENGR 46300 NETWORK SECURITY 3 Credit Hours**

Introduction to Network security with emphasis in identifying, analyzing and preventing various threats and attack patterns on computer networks. Students will gain practical knowledge on network security protocols, firewalls, VPN, Intrusion detection and prevention systems. Prepares students for industry certification.

**Prerequisite:** ENGR 26301.

**Schedule Type:** Laboratory, Lecture, Combined Lecture and Lab

**Contact Hours:** 2 lecture, 2 lab

**Grade Mode:** Standard Letter

**ENGR 46312 WIRELESS NETWORK AND TELECOMMUNICATION SYSTEMS 3 Credit Hours**

(Slashed with ENGR 56312) Course builds upon existing wired networking skills and extends the students' knowledge into the world of wireless networking. Students learn digital wireless fundamentals, wireless standards, how to implement a wireless network in an enterprise environment and how to trouble shoot wireless issues. Curriculum follows and prepares students for industry certification in wireless networking.

**Prerequisite:** ENGR 26301.

**Pre/corequisite:** ENGR 36302.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ENGR 46316 SERVER ADMINISTRATION AND CONFIGURATION I 3 Credit Hours**

This course emphasizes on configuring and administering server operating systems to solve engineering problems. Students are expected to learn MS server management, Active Directory, OUs and server roles by utilizing variety of on-based and cloud based solutions.

**Prerequisite:** None.

**Schedule Type:** Laboratory, Lecture, Combined Lecture and Lab

**Contact Hours:** 2 lecture, 2 lab

**Grade Mode:** Standard Letter

**ENGR 46330 VISUAL BASIC PROGRAMMING IN ENGINEERING TECHNOLOGY 3 Credit Hours**

(Slashed with ENGR 56330) Course includes programming in a high-level object-oriented, event-driven visual programming language, Visual Basic 2010 Express, conditional statements, iterative statements, arrays, object oriented programming, classes, objects, methods, inheritance, exception handling, graphical user interfaces with Windows Forms.

**Prerequisite:** EMAT 26010 or ENGR 26010.

**Schedule Type:** Laboratory, Lecture, Combined Lecture and Lab

**Contact Hours:** 4 other

**Grade Mode:** Standard Letter

**ENGR 46350 NETWORK MANAGEMENT AND DESIGN TECHNOLOGY 3 Credit Hours**

(Slashed with ENGR 56350) Course covers the technical aspects of centrally managed and distributed Wide Area Networks, with an emphasis on the techniques used to maintain and improve the performance of telecommunications and data networks. Students will use software packages to monitor the real-time performance of a network and to diagnose various networking hardware and software problems. Topics include the five stacks of network management (fault management, configuration management, performance management, security management, and accounting management). Examples of current specific network management products are reviewed.

**Prerequisite:** ENGR 36302.

**Schedule Type:** Laboratory, Lecture, Combined Lecture and Lab

**Contact Hours:** 2 lecture, 2 lab

**Grade Mode:** Standard Letter

**ENGR 46411 REQUIREMENTS ENGINEERING AND ANALYSIS 3 Credit Hours**

(Slashed with ENGR 56411) Techniques to conceptualize, develop and analyze requirements engineering specifications for practical systems. Topics covered include identifying stakeholders and how to effectively work with them, requirements elicitation techniques; requirements engineering in the problem and solution domains. The students are provided with an opportunity to participate in formal review of their projects by industry experts. Strong analytic skills, algorithms or programming experience is recommended.

**Prerequisite:** EMAT 26010 or ENGR 26010 with a minimum C grade.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ENGR 46510 APPLIED INFORMATION TECHNOLOGY SECURITY 3 Credit Hours**

The purpose of the course is to provide the student with an overview of the field of information security and assurance. Students will be exposed to the spectrum of security activities, methods, methodologies, and procedures. Coverage will include inspection and protection of information assets, detection of and reaction to threats to information assets, and examination of pre and post incident procedures and an overview of the information technology security.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ENGR 47200 SYSTEMS ENGINEERING 3 Credit Hours**

(Slashed with ENGR 57200) Systems engineering as a method to solve problems. Introduction to the fundamental systems engineering principles, processes, and methodologies used to analyze, design, develop, and deploy complex, sustainable systems. Focuses on systems engineering as a logical, disciplined, systematic, and coherent approach to the design and development of a system, across the full life cycle of the system. Special emphasis is made on the concepts, methods, and activities used to analyze systems, to define and allocate requirements, to transform requirements into a system design, and to verify and validate the system.

**Prerequisite:** Junior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ENGR 47210 SUSTAINABLE ENERGY I 3 Credit Hours**

(Slashed with ENGR 57210) A comprehensive overview of energy sources and energy systems, with an emphasis on renewable energy and the implementation and sustainability of various forms of energy. Examines the characteristics of conventional non-renewable energy systems, along with alternate, renewable energy sources and systems. Includes fundamental energy concepts and the conversion, delivery, distribution, and storage of energy. Explores the technological application of various sources of energy and compares their benefits and limitations. Also presents an overview of present U.S. and global energy needs and demands, and the sustainable energy technologies that may be used to meet future energy demands.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ENGR 47211 SUSTAINABLE ENERGY II 3 Credit Hours**

(Slashed with ENGR 57211) An in-depth study of the analysis, selection and implementation of various energy and power sources, with an emphasis on the use of renewable, sustainable energy systems. Focuses on determining energy needs, and on assessing and comparing energy systems with respect to efficiency, technical feasibility, available resources, cost and sustainability characteristics. Includes economics of energy systems, methods for determining costs, and cost-benefit analysis of various energy and power systems. Also includes the social, economic and environmental impact associated with the development, implementation and use of various forms of energy.

**Prerequisite:** ENGR 47210.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ENGR 48001 ORBITAL MECHANICS 3 Credit Hours**

(Slashed with ENGR 58001 and ENGR 78001) The course is an introduction to orbital and trajectory design. Topics include Newton's law of gravity; two-body motion, relative equations of motion; conic sections; orbits in three dimensions; orbital maneuvers; and interplanetary transfers.

**Prerequisite:** ENGR 35400 and MATH 32052; and senior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ENGR 48002 SPACECRAFT ATTITUDE DYNAMICS, DETERMINATION AND CONTROL 3 Credit Hours**

(Slashed with ENGR 58002 and ENGR 78002) Spacecraft rigid body equations of motion in terms of direction cosines, angles, and quaternions. Determination of the attitude stability with external torques and coupling with orbital motion. Overview of state-of-the-art hardware and technology for attitude control, including gas jet, electric thrusters, momentum wheels and magnetic torquers; attitude sensing hardware: sun sensors, magnetometers, GPS, IMUs, star tracker. Attitude determination technique; attitude stabilization and control.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ENGR 48004 OPTIMAL CONTROL THEORY 3 Credit Hours**

(Slashed with ENGR 58004 and ENGR 78004) The course introduces students to the theory and numerical calculation of optimal space trajectories and related optimization problems in aerospace engineering. This course provides the essential technical components of space trajectory design and space trajectory optimization. Students develop basic engineering skills in formulating and solving open-ended problems and in writing a project report.

**Prerequisite:** ENGR 35400 and MATH 32052; and senior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ENGR 48099 ENGINEERING CAPSTONE I (ELR) 3 Credit Hours**

First of a two-course capstone sequence for engineering and engineering technology students. Students work as members of an integrated product team under a faculty advisor to develop a conceptual design/prototype of a complex system that accomplishes a set of functional requirements. These projects can take the form of state, regional, or national design competitions, governmental-sponsored projects or industry-sponsored projects.

**Prerequisite:** ENGR 47200.

**Schedule Type:** Project or Capstone

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter-IP

**Attributes:** Experiential Learning Requirement

**ENGR 48199 ENGINEERING CAPSTONE II (ELR) (WIC) 3 Credit Hours**

Second of a two-course capstone sequence for engineering and engineering technology students. Students work as members of an integrated product team under a faculty advisor to develop a conceptual design/prototype of a complex system that accomplishes a set of functional requirements. These projects can take the form of state, regional, or national design competitions, governmental-sponsored projects, or industry-sponsored projects.

**Prerequisite:** ENGR 48099.

**Schedule Type:** Project or Capstone

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter-IP

**Attributes:** Experiential Learning Requirement, Writing Intensive Course

**ENGR 50092 INDUSTRIAL PRACTICE 1-4 Credit Hours**

Practical experience in industry of a cooperative work-study nature.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Practical Experience

**Contact Hours:** 3-12 other

**Grade Mode:** Standard Letter

**ENGR 51093 VARIABLE TITLE WORKSHOP IN TECHNOLOGY 1-3 Credit Hours**

(Repeatable for credit) (Slashed with ENGR 41093) Specialized instructional unit oriented toward the application of current technology concepts.

**Prerequisite:** Graduate standing.

**Schedule Type:** Workshop

**Contact Hours:** 1-3 other

**Grade Mode:** Satisfactory/Unsatisfactory

**ENGR 52111 STRENGTH OF MATERIALS FOR ENGINEERS 3 Credit Hours**

(Slashed with ENGR 42111 and ENGR 72111) The mathematical study of how materials respond to external forces. Stress, strain, torsion; deformation of thin-walled pressure vessels, beams, and columns; and an introduction to energy methods.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ENGR 52200 RADIATION PROCESSING OF MATERIALS 3 Credit Hours**

Understand the basic mechanisms of the interaction of alpha, beta, and gamma radiation with matter. Understand how radiation is absorbed in matter. Learn the effects of radiation in different materials of consumers' importance like, biological materials, medical devices, polymers, inks and coatings.

**Prerequisite:** ENGR 52400; and graduate standing.

**Schedule Type:** Laboratory, Lecture, Combined Lecture and Lab

**Contact Hours:** 2 lecture, 2 lab

**Grade Mode:** Standard Letter

**ENGR 52363 MATERIALS SELECTION IN DESIGN AND APPLICATIONS 3 Credit Hours**

(Slashed with ENGR 42363 and ENGR 72363) Description and analysis of procedures for selecting appropriate materials for a particular mechanical design. The affect of processing on material properties, introduction to materials science for users of materials. Extensive case studies of materials selection and materials and sustainability.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ENGR 52400 RADIATION DOSIMETRY AND SAFETY 3 Credit Hours**  
(Slashed with ENGR 42400) Basic concepts of dosimetry and its units as applied to radiation technology, including theory of dosimeter response and use of dosimeters in radiation environments. Safety principles and practices followed in radiation environments, including terminology, maximum exposure limits, and procedures to minimize exposure to radiation.

**Prerequisite:** Graduate standing.

**Schedule Type:** Laboratory, Lecture, Combined Lecture and Lab

**Contact Hours:** 2 lecture, 2 lab

**Grade Mode:** Standard Letter

**ENGR 53026 INTRODUCTION TO MICROPROCESSORS 4 Credit Hours**

(Slashed with ENGR 43026) Introduction to the architecture, operation and applications of an advanced microprocessor, focusing on assembly language programming and interfacing of standard programmable peripherals.

**Prerequisite:** Graduate standing.

**Schedule Type:** Laboratory, Lecture

**Contact Hours:** 3 lecture, 2 lab

**Grade Mode:** Standard Letter

**ENGR 53221 DIGITAL CONTROL SYSTEMS AND INSTRUMENTATION 4 Credit Hours**

(Slashed with ENGR 43221) Focuses on applications of instrumentation and control systems using computers and microcontrollers including sensors, transducers, instruments, data acquisition boards, software programs, signal conditioning and transmission methods.

**Prerequisite:** Graduate standing.

**Schedule Type:** Laboratory, Lecture, Combined Lecture and Lab

**Contact Hours:** 3 lecture, 2 lab

**Grade Mode:** Standard Letter

**ENGR 53222 COMPUTER HARDWARE ENGINEERING AND ARCHITECTURE 3 Credit Hours**

(Slashed with ENGR 43222) Internal architecture and operation of digital computers. Topics include computer processor datapaths and control, computer memory datapaths and control, pipelining and parallel processing, memory architecture and management, IO control, system bus architecture and properties, storage systems, and computer control timing and synchronization. Students gain understanding in how system software manages system resources and abstracts programming requirements. Alternative architectures such as embedded systems and SoC platforms are discussed. Industry standards for calculating system performance are used.

**Prerequisite:** Graduate standing.

**Schedule Type:** Laboratory, Lecture, Combined Lecture and Lab

**Contact Hours:** 2 lecture, 2 lab

**Grade Mode:** Standard Letter

**ENGR 53550 COMPUTER-AIDED MANUFACTURING 3 Credit Hours**

(Slashed with ENGR 43550) The application of computers to the preparation of machine tool control programs.

**Prerequisite:** Graduate standing.

**Schedule Type:** Laboratory, Lecture, Combined Lecture and Lab

**Contact Hours:** 2 lecture, 2 lab

**Grade Mode:** Standard Letter

**ENGR 53700 COMPUTER INTEGRATED MANUFACTUR 3 Credit Hours**

(Slashed with ENGR 43700) Study of the computer-integrated manufacturing system as it relates to product design, estimating inventory, machining and assembly, quality control and distribution.

**Prerequisite:** ENGR 53550; and graduate standing.

**Schedule Type:** Laboratory, Lecture, Combined Lecture and Lab

**Contact Hours:** 2 lecture, 2 lab

**Grade Mode:** Standard Letter

**ENGR 53899 APPLIED ENGINEERING TECHNOLOGY SEMINAR 2 Credit Hours**

An individual or group project involving the solution of a problem through the application of technology.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Project or Capstone, Seminar

**Contact Hours:** 1 lecture, 2 other

**Grade Mode:** Standard Letter

**ENGR 55901 INTRODUCTION TO FINITE ELEMENT METHOD AND APPLICATIONS 3 Credit Hours**

(Slashed with ENGR 45901 and ENGR 75901) The objective of this course is to teach in a unified manner the fundamentals of the finite element method for the analysis of engineering problems arising in solids and structures. The course will emphasize the solution of real-life problems using the finite element method and students will get exposure to commercial finite element software (ANSYS or ABAQUS) and will learn to critically evaluate finite element models. Examples will be provided for solid, fluid, and heat transfer applications. Finally, developing an understanding of the computational aspects of the finite-element method and its application in realistic aerospace applications are the core goals of this course.

**Prerequisite:** Graduate standing.

**Schedule Type:** Laboratory, Lecture, Combined Lecture and Lab

**Contact Hours:** 2 lecture, 2 lab

**Grade Mode:** Standard Letter

**ENGR 56312 WIRELESS NETWORK AND TELECOMMUNICATION SYSTEMS 3 Credit Hours**

(Slashed with ENGR 46312) This course builds upon existing wired networking skills and extends the students' knowledge into the world of wireless networking. Students learn digital wireless fundamentals, wireless standards, how to implement a wireless network in an enterprise environment and how to trouble shoot wireless issues. Curriculum follows and prepares students for industry certification in wireless networking.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ENGR 56321 WEB DATABASE INTEGRATION 3 Credit Hours**

Laboratory course focused on integrating data sources into web sites. Current topics include server-side processing principles, Web forms, database programming objects and structured query language.

**Prerequisite:** Graduate standing.

**Schedule Type:** Laboratory, Lecture, Combined Lecture and Lab

**Contact Hours:** 1 lecture, 4 lab

**Grade Mode:** Standard Letter



**ENGR 56330 VISUAL BASIC PROGRAMMING IN ENGINEERING TECHNOLOGY 3 Credit Hours**

(Slashed with ENGR 46330) Course includes programming in a high-level object-oriented, event-driven visual programming language, Visual Basic 2010 Express, conditional statements, iterative statements, arrays, object oriented programming, classes, objects, methods, inheritance, exception handling, graphical user interfaces with Windows Forms.

**Prerequisite:** Graduate standing.

**Schedule Type:** Laboratory, Lecture, Combined Lecture and Lab

**Contact Hours:** 2 lecture, 2 lab

**Grade Mode:** Standard Letter

**ENGR 56350 NETWORK MANAGEMENT AND DESIGN TECHNOLOGY 3 Credit Hours**

(Slashed with ENGR 46350) Course covers the technical aspects of centrally managed and distributed Wide Area Networks, with an emphasis on the techniques used to maintain and improve the performance of telecommunications and data networks. Students will use software packages to monitor the real-time performance of a network and to diagnose various networking hardware and software problems. Topics include the five stacks of network management (fault management, configuration management, performance management, security management, and accounting management). Examples of current specific network management products are reviewed.

**Prerequisite:** Graduate standing.

**Schedule Type:** Laboratory, Lecture, Combined Lecture and Lab

**Contact Hours:** 2 lecture, 2 lab

**Grade Mode:** Standard Letter

**ENGR 56411 REQUIREMENTS ENGINEERING AND ANALYSIS TECHNOLOGY 3 Credit Hours**

Techniques to conceptualize, develop and analyze requirements engineering specifications for software and telecommunications systems. Topics covered include identifying stakeholders and how to effectively work with them, requirements elicitation techniques; requirements engineering in the problem and solution domains. Strong analytic skills, algorithms or programming experience is recommended.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ENGR 57200 SYSTEMS ENGINEERING 3 Credit Hours**

(Slashed with ENGR 47200) Systems engineering as a method to solve problems. Introduction to the fundamental systems engineering principles, processes, and methodologies used to analyze, design, develop, and deploy complex, sustainable systems. Focuses on systems engineering as a logical, disciplined, systematic, and coherent approach to the design and the development of a system, across the full life cycle of the system. Special emphasis is made on the concepts, methods and activities used to analyze systems, to define and allocate requirements, to transform requirements into a system design, and to verify and validate the system.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ENGR 57210 SUSTAINABLE ENERGY I 3 Credit Hours**

(Slashed with ENGR 47210) A comprehensive overview of energy sources and energy systems, with an emphasis on renewable energy and the implementation and sustainability of various forms of energy. Examines the characteristics of conventional non-renewable energy systems, along with alternate, renewable energy sources and systems. Includes fundamental energy concepts and the conversion, delivery, distribution, and storage of energy. Explores the technological application of various sources of energy and compares their benefits and limitations. Also presents an overview of presents U.S. and global energy needs and demands, and the sustainable energy technologies that may be used to meet future energy demands.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ENGR 57211 SUSTAINABLE ENERGY II 3 Credit Hours**

(Slashed with ENGR 47211) An in-depth study of the analysis, selection and implementation of various energy and power sources, with an emphasis on the use of renewable, sustainable energy systems. Focuses on determining energy needs, and on assessing and comparing energy systems with respect to efficiency, technical feasibility, available resources, cost and sustainability characteristics. Includes economics of energy systems, methods for determining costs, and cost-benefit analysis of various energy and power systems. Also includes the social, economic, and environmental impact associated with the development, implementation, and use of various forms of energy.

**Prerequisite:** ENGR 57210; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ENGR 58001 ORBITAL MECHANICS 3 Credit Hours**

(Slashed with ENGR 48001 and ENGR 78001) The course is an introduction to orbital and trajectory design. Topics include Newton's law of gravity; two-body motion, relative equations of motion; conic sections; orbits in three dimensions; orbital maneuvers; and interplanetary transfers.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ENGR 58002 SPACECRAFT ATTITUDE DYNAMICS, DETERMINATION AND CONTROL 3 Credit Hours**

(Slashed with ENGR 48002 and ENGR 78002) Spacecraft rigid body equations of motion in terms of direction cosines, angles, and quaternions. Determination of the attitude stability with external torques and coupling with orbital motion. Overview of state-of-the-art hardware and technology for attitude control, including gas jet, electric thrusters, momentum wheels and magnetic torquers; attitude sensing hardware: sun sensors, magnetometers, GPS, IMUs, star tracker. Attitude determination technique; attitude stabilization and control.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter



**ENGR 58003 SPACECRAFT DESIGN 3 Credit Hours**

(Slashed with ENGR 78003) Spacecraft mission design course with a focus on hands-on design experience. The first portion of the course is lecture-based. Topics include launch systems, space environment, spacecraft orbits, and ground tracks, spacecraft design and sizing, budget designs, subsystem design and evaluation, cost and risk. The second portion is dedicated to student teamwork on the spacecraft design.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ENGR 58004 OPTIMAL CONTROL THEORY 3 Credit Hours**

(Slashed with ENGR 48004 and ENGR 78004) The course introduces students to the theory and numerical calculation of optimal space trajectories and related optimization problems in aerospace engineering. This course provides the essential technical components of space trajectory design and space trajectory optimization. Students develop basic engineering skills in formulating and solving open-ended problems and in writing a project report.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ENGR 58005 LINEAR SYSTEM ANALYSIS AND CONTROL 3 Credit Hours**

(Slashed with ENGR 78005) This course covers the analysis and synthesis of linear dynamical systems. Fundamental concepts including canonical representations, the state transition matrix, and the properties of controllability and observability will be discussed. The existence and synthesis of stabilizing feedback control laws using pole placement and linear-quadratic optimal control will be discussed.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ENGR 58006 NONLINEAR SYSTEMS AND CONTROL 3 Credit Hours**

(Slashed with ENGR 78006) Overview of stability concepts and examination of various methods for assessing stability such as linearization and Lyapunov methods. Introduction to various design methods based on linearization, sliding modes, adaptive control, and feedback linearization.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ENGR 58007 DIGITAL CONTROL SYSTEMS 3 Credit Hours**

(Slashed with ENGR 78007) This course covers design and analysis of sampled-data and digital control systems. Fundamental concepts include introduction to digital control and discrete transform (z-transform), discrete and hybrid signal flow graphs (SFGs), solution of discrete-time state space models, time-response and characteristic equations, stability analysis for discrete time systems, root locus, Bode plot, and Nyquist method for sampled data systems, pole placement, and state estimation for discrete time systems.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ENGR 58100 INTELLIGENT SENSING AND PLANNING OF UNMANNED AERIAL SYSTEMS 3 Credit Hours**

(Slashed with ENGR 78100) This course will focus on real-world environment understanding for the UAV systems. This course introduces students the state-of-the-art artificial intelligence methods for planning UAV missions in real-world.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ENGR 58200 AUTONOMOUS UNMANNED AERIAL SYSTEMS 3 Credit Hours**

(Slashed with ENGR 78200) This course provides an advanced-level understanding of unmanned aerial vehicles in physical system design, payload, and stealth design, navigation and deployment regulations. This course introduces students the state-of-the-art artificial intelligence methods for UAS deployments in different urban, forest, and water surface scenarios.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ENGR 60000 PROJECT MANAGEMENT IN A TECHNOLOGICAL ENVIRONMENT 3 Credit Hours**

The planning, organizing, directing and controlling of company technology resources for relatively short term objectives. Students will also learn to make application of current projects.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ENGR 60001 QUANTITATIVE METHODS IN TECHNOLOGY 3 Credit Hours**

Descriptive and inferential statistics used in technology and engineering. Emphasis is on the methods of analysis and the interpretation of data associated with research and development in technological and engineering environments. Course topics include representation of data, descriptive statistics, probability and probability distributions, inferential statistics, statistical design, and the analysis of experiments. No previous familiarity with probability or statistics is assumed. The ability to utilize basic algebra is required.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ENGR 60003 SIX-SIGMA: TOOLS AND APPLICATIONS FOR TECHNOLOGY MANAGEMENT 2 Credit Hours**

Principles and concepts of six-sigma to improve organizational efficiency, effectiveness and productivity by improving quality, reducing waste, defects and failures.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**ENGR 60010 RADIATION SOURCES FOR RADIATION PROCESSING 3 Credit Hours**

Description of the basic types of radiations used for Radiation Processing and how these radiations are produced. Describe the types of gamma, electron, and Bremsstrahlung facilities used in the area of Radiation Processing and the qualifications of an irradiator to be used in this area. The student will also learn about the different industries that use ionizing radiation in their processes.

**Prerequisite:** ENGR 52400; and graduate standing.

**Schedule Type:** Laboratory, Lecture, Combined Lecture and Lab

**Contact Hours:** 2 lecture, 2 lab

**Grade Mode:** Standard Letter

**ENGR 60020 QUALITY STANDARDS 3 Credit Hours**

This course introduces students to issues in quality standards, quality assurance and statistical inference in applied technology and process control. Topics include systems reliability, quality control, SPC, control charts, principles and methods of statistical analysis and prediction, and hypothesis testing.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ENGR 60078 RESEARCH METHODS IN TECHNOLOGY 3 Credit Hours**

Research techniques for the technologist. Methods for designing, conducting, analyzing and interpreting results of technological research.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ENGR 61000 INDUSTRIAL TECHNOLOGY EDUCATION 3 Credit Hours**

This course provides students with an understanding of the rationale and issues related to developing the industrial technology education program.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ENGR 61095 SPECIAL TOPICS IN APPLIED ENGINEERING 1-4 Credit Hours**

(Repeatable for credit) Study of significant and current issues in various Applied Engineering topics not covered in regular courses. Offered when opportunities and resources permit; the topic is announced when the course is scheduled.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 1-4 lecture

**Grade Mode:** Standard Letter

**ENGR 61098 RESEARCH 1-15 Credit Hours**

(Repeatable for credit) Research or individual investigation for master's level graduate students. Credits earned may be applied toward meeting degree requirements if department approves.

**Prerequisite:** Graduate standing.

**Schedule Type:** Research

**Contact Hours:** 1-15 other

**Grade Mode:** Standard Letter

**ENGR 61099 CAPSTONE IN MECHANICAL ENGINEERING TECHNOLOGY 2-6 Credit Hours**

(Repeatable for credit) Students are required to complete either a comprehensive project at a workplace through employment or internship or a comprehensive research paper from an investigation. The goal is to demonstrate competence in the respective concentration under the Master of Engineering Technology degree. Possibilities include empirical research, case studies, theoretical or applied projects or projects identified for a specific client. Students are evaluated on the use of knowledge and skills gained from other courses taken in the program.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Project or Capstone

**Contact Hours:** 2-6 other

**Grade Mode:** Standard Letter

**ENGR 61199 THESIS I 2-6 Credit Hours**

Thesis option student must register for a total of 6 hours, 2 to 6 in a single semester or to be distributed over several semesters if desired.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Masters Thesis

**Contact Hours:** 2-6 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**ENGR 61299 THESIS II 2 Credit Hours**

Thesis students must continue registration each semester until all degree requirements are met.

**Prerequisite:** ENGR 61199; and graduate standing.

**Schedule Type:** Masters Thesis

**Contact Hours:** 2 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**ENGR 62396 INDIVIDUAL INVESTIGATION IN ELECTRONIC TECHNOLOGY 2 Credit Hours**

(Repeatable for credit) Individual investigation of a student-selected topic oriented toward the technical aspects of electronics.

**Prerequisite:** ENGR 53221; and graduate standing.

**Schedule Type:** Individual Investigation

**Contact Hours:** 2 other

**Grade Mode:** Standard Letter-IP

**ENGR 63010 COMPUTER HARDWARE 3 Credit Hours**

Introduction to the hardware, architecture and operation of the personal computer and associated devices. Topics include personal computer architecture and operation fundamentals, basic hardware, data busses and ports, hardware component packaging, auxiliary hardware components, and computer assembly, basic hardware installation, configuration and troubleshooting.

**Prerequisite:** Graduate standing.

**Schedule Type:** Laboratory, Lecture, Combined Lecture and Lab

**Contact Hours:** 2 lecture, 2 lab

**Grade Mode:** Standard Letter

**ENGR 63020 FIBER OPTIC SYSTEMS 3 Credit Hours**

Principles and characteristics of fiber optics, fiber optic system components and applications of fiber optics in electronic communication systems.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ENGR 63031 PROGRAMMABLE LOGIC CONTROLLERS 3 Credit Hours**

Programmable logic controllers (PLCS) covering hardware, ladder logic programming, networking and communications. Programming timers, counters and sequencers and an introduction to human machine interfaces (HMIS). An understanding of basic electricity and computer technology is required.

**Prerequisite:** Graduate standing.

**Schedule Type:** Laboratory, Lecture, Combined Lecture and Lab

**Contact Hours:** 2 lecture, 2 lab

**Grade Mode:** Standard Letter

**ENGR 63032 ADVANCED PROGRAMMABLE LOGIC CONTROLLERS 3 Credit Hours**

Advanced principles and applications of programmable logic controllers with a focus on using sequential function charts to control complex industrial processes. Includes real time control issues, PLC networking, programming languages other than ladder logic, standards, motion control, supervisory control and data acquisition, process control, alarm management, power failure strategies and safety.

**Prerequisite:** ENGR 63031; and graduate standing.

**Schedule Type:** Laboratory, Lecture, Combined Lecture and Lab

**Contact Hours:** 2 lecture, 2 lab

**Grade Mode:** Standard Letter

**ENGR 63040 ELECTRONIC COMMUNICATIONS 3 Credit Hours**

Study of electronic communications systems fundamentals, characteristics, design considerations and implementation. Topics include signal modulation and demodulation, multiplexing, noise, transmitters, receivers, signal propagation, digital communications, transmission lines, antennas and practical applications.

**Prerequisite:** Graduate standing.

**Schedule Type:** Laboratory, Lecture, Combined Lecture and Lab

**Contact Hours:** 2 lecture, 2 lab

**Grade Mode:** Standard Letter

**ENGR 63041 MOTORS AND CONTROLLERS 3 Credit Hours**

Theory and application of AC and DC motors, motor control, and machine operations in mechatronic systems. Includes introduction to basic control system terms and devices, input and output transducers, signal conditioning, open loop and closed loop control, stability and performance.

**Prerequisite:** Graduate standing.

**Schedule Type:** Laboratory, Lecture, Combined Lecture and Lab

**Contact Hours:** 2 lecture, 2 lab

**Grade Mode:** Standard Letter

**ENGR 63045 MECHATRONICS 3 Credit Hours**

Application of automation concepts in motion control, electrical circuits, fundamental mechanics, control systems and programming including modeling, interfacing and signal conditioning.

**Prerequisite:** ENGR 63032 and ENGR 63040; and graduate standing.

**Schedule Type:** Laboratory, Lecture, Combined Lecture and Lab

**Contact Hours:** 2 lecture, 2 lab

**Grade Mode:** Standard Letter

**ENGR 63046 ADVANCED MECHATRONICS 3 Credit Hours**

Advanced modeling, system response, closed loop control and system software for mechatronic systems.

**Prerequisite:** ENGR 63045; and graduate standing.

**Schedule Type:** Laboratory, Lecture, Combined Lecture and Lab

**Contact Hours:** 2 lecture, 2 lab

**Grade Mode:** Standard Letter

**ENGR 63050 TRIZ: THEORY OF INVENTIVE PROBLEM-SOLVING 3 Credit Hours**

TRIZ is a collection of powerful problem-solving tools for a broad range of inventive problems. The theory originated in Russia by the study of more than two million patents. Students utilize material learned in earlier courses to solve real world problems in multiple disciplines.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ENGR 63060 MANAGEMENT OF TECHNOLOGY INNOVATION 3 Credit Hours**

Subjects covered in this course include: case studies of innovative companies, elements of an innovation process, review of major problem solving methods, technical opportunity analysis, technical planning, technological forecasting, concept development and elements of patents. A project is included that utilizes TRIZ software and innovation model elements.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ENGR 63070 COMPUTER HARDWARE DESIGN AND INTEGRATION 3 Credit Hours**

In-depth study of personal computer (PC) and computer networking hardware. Topics include PC design, basic and auxiliary PC hardware components, PC assembly, PC upgrade and optimization, and PC repair, diagnosis and troubleshooting. Additional topics include computer networking hardware, network architecture, network communication protocols, and network installation, configuration and maintenance. Includes laboratory.

**Prerequisite:** Graduate standing.

**Schedule Type:** Laboratory, Lecture, Combined Lecture and Lab

**Contact Hours:** 2 lecture, 2 lab

**Grade Mode:** Standard Letter

**ENGR 63100 COMPUTER-AIDED DESIGN 3 Credit Hours**

Study of modern industrial practice using computers in advanced graphics, design and analysis including geometric dimensioning and tolerancing, parametric design, solid modeling and finite element analysis. Two hours lecture and two hours lab.

**Prerequisite:** Graduate standing.

**Schedule Type:** Laboratory, Lecture, Combined Lecture and Lab

**Contact Hours:** 1 lecture, 4 lab

**Grade Mode:** Standard Letter

**ENGR 63496 INDIVIDUAL INVESTIGATION IN ENERGY/POWER TECHNOLOGY 1-4 Credit Hours**

(Repeatable for credit) Individual investigation of selected topics associated with energy and power technology.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Individual Investigation

**Contact Hours:** 3-12 other

**Grade Mode:** Standard Letter-IP

**ENGR 63870 FACILITY DESIGN AND MATERIAL HANDLING 3 Credit Hours**

Intended to provide students with a fundamental understanding of how layout affects the flow through a system. Both qualitative and quantitative tools are presented for a complete approach to facility design and material handling.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ENGR 64010 CONNECTIVITY AND INTEROPERABILITY IN INDUSTRY 3 Credit Hours**

This course focuses on integrating and administering multiple systems in an industrial environment.

**Prerequisite:** Graduate standing.

**Schedule Type:** Laboratory, Lecture, Combined Lecture and Lab

**Contact Hours:** 2 lecture, 2 lab

**Grade Mode:** Standard Letter

**ENGR 64012 INFORMATION TECHNOLOGY AND AUTOMATION IN INDUSTRY 3 Credit Hours**

Course focuses on developing systems that analyze and automate industrial processes and provide decision support.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Laboratory, Lecture, Combined Lecture and Lab

**Contact Hours:** .5 lecture, 2.5 lab

**Grade Mode:** Standard Letter

**ENGR 64095 SPECIAL TOPICS IN COMPUTER ENGINEERING TECHNOLOGY 1-4 Credit Hours**

(Repeatable for credit) Study of significant and current issues in computer and network engineering technologies not covered in regular courses. Offered when opportunities and resources permit; the topic is announced when the course is scheduled.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 1-4 lecture

**Grade Mode:** Standard Letter

**ENGR 64312 ADVANCED WIRELESS TELECOMMUNICATION SYSTEM AND NETWORK TECHNOLOGIES 3 Credit Hours**

Describes technologies associated with wireless and telecommunications systems. Topics covered include public switch telephone network infrastructures, intelligent networks, wireless technologies in manufacturing enterprises, 3GPP standards, ITU standards.

**Prerequisite:** ENGR 56350; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ENGR 64396 INDIVIDUAL INVESTIGATION IN COMMUNICATION TECHNOLOGY 2 Credit Hours**

(Repeatable for credit) Independent research consisting of a problem statement followed by literature search and application of an industrial practice. Students must develop a proposal and present a written paper project to faculty and industrial representatives.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Individual Investigation

**Contact Hours:** 6 other

**Grade Mode:** Standard Letter-IP

**ENGR 65098 RESEARCH 1-6 Credit Hours**

(Repeatable for credit) Research or individual investigation. Credits are applied toward degree requirements with approval if grade of 'S' is given.

**Prerequisite:** Graduate standing.

**Schedule Type:** Research

**Contact Hours:** 1-6 other

**Grade Mode:** Satisfactory/Unsatisfactory

**ENGR 65199 THESIS I 2-6 Credit Hours**

Thesis student must register for a total of 6 hours, 2 to 6 hours in a single semester distributed over several semesters if desired.

**Prerequisite:** Graduate standing.

**Schedule Type:** Masters Thesis

**Contact Hours:** 2-6 other

**Grade Mode:** Satisfactory/Unsatisfactory

**ENGR 65299 THESIS II 2 Credit Hours**

Thesis students must continue registration each semester until all degree requirements are met.

**Prerequisite:** Graduate standing.

**Schedule Type:** Masters Thesis

**Contact Hours:** 2 other

**Grade Mode:** Satisfactory/Unsatisfactory

**ENGR 65330 ADVANCED VISUAL BASIC PROGRAMMING IN ENGINEERING TECHNOLOGY 3 Credit Hours**

Advanced concepts in Visual Basic programming for solving engineering problems. Topics covered include classes and objects; SQL server databases, Language Integrated Query, creating web apps, programming web forms and security.

**Prerequisite:** ENGR 56330; and graduate standing.

**Schedule Type:** Laboratory, Lecture, Combined Lecture and Lab

**Contact Hours:** 2 lecture, 2 lab

**Grade Mode:** Standard Letter

**ENGR 65500 QUALITY SYSTEMS AND INDUSTRIAL PRODUCTIVITY 3 Credit Hours**

Tools and techniques for increasing industrial productivity through total quality management. Productivity improvement techniques involving human, technology, material, product and processes, utilizing value engineering, analytical models and scientific management tools in high-technology environment.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ENGR 65550 DESIGN AND ANALYSIS OF EXPERIMENTS IN TECHNOLOGY 3 Credit Hours**

Introduces planning and conducting experiments, as well as analyzing the resulting data using statistical techniques to obtain valid and objective conclusions. Also focuses on experiments performed in areas such as product design, manufacturing process development and process improvement.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ENGR 6551 INTRODUCTION TO NANOTECHNOLOGY 3 Credit Hours**

Provides an in-depth overview of the fundamentals of nanoscience and nanotechnology. Includes a survey of developments within the breadth of the nanotechnology in various fields such as electronics, materials, energy and biomedical science.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ENGR 65700 APPLIED RELIABILITY ENGINEERING 3 Credit Hours**

Introduction to reliability engineering for engineering-technology management professionals. Course includes design for reliability, failure mode and failure effect analysis, reliability testing and measurement, statistical and mathematical modeling, assessment and forecasting.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ENGR 65800 BURN-IN AND STRESS-TESTING FOR RELIABILITY 3 Credit Hours**

Comprehensive course on reliability testing to analyze and establish reliability standards for components, products and systems. Specific emphasis on burn-in and stress testing procedures to perform effective reliability statistical calculations will be the major focus of the course.

**Prerequisite:** Graduate standing.

**Schedule Type:** Laboratory, Lecture, Combined Lecture and Lab

**Contact Hours:** 2 lecture, 2 lab

**Grade Mode:** Standard Letter

**ENGR 66350 ADVANCED NETWORK MANAGEMENT AND DESIGN TECHNOLOGY 3 Credit Hours**

Covers network management techniques including the TMN framework and the ISO Model for managing WAN communication networks.

Topics covered include network management technologies, TMN protocols, Common Management Information Protocol, ISO Model, management information base (MIB) architecture, network operations center and network design. Examples of current network management tools are reviewed. Upon completion of this course, students have a good understanding of network management framework and network management technologies for communication networks.

**Prerequisite:** ENGR 56350; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ENGR 66380 ADVANCED NETWORKING 3 Credit Hours**

Provides student with experience in advanced computer networking techniques, including network architectures, network security, network virtualization and storage area networks.

**Prerequisite:** ENGR 56350; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ENGR 66382 NETWORK SECURITY 3 Credit Hours**

Provides student with experience in fundamental and advanced computer networking techniques, including network architectures, LAN systems, network security, and network management and administration.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ENGR 66411 WIRELESS AND TELECOMMUNICATION SYSTEMS REQUIREMENTS ENGINEERING 3 Credit Hours**

Methods and techniques to develop requirements engineering specifications for wireless and telecommunication systems. Topics covered include Industry standards for telecom and wireless communications, reference data models, functional requirements specifications, performance analysis, the requirements review process and systems verification.

**Prerequisite:** ENGR 56411; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ENGR 66596 INDIVIDUAL INVESTIGATION IN MATERIALS TECHNOLOGY 2 Credit Hours**

(Repeatable for credit) Research directed toward the study and application of metallic and nonmetallic materials.

**Prerequisite:** Graduate standing.

**Schedule Type:** Individual Investigation

**Contact Hours:** 6 other

**Grade Mode:** Standard Letter-IP

**ENGR 66796 INDIVIDUAL INVESTIGATION IN INDUSTRIAL PROCESSES 2 Credit Hours**

(Repeatable for credit) Individual investigation of a student-selected topic oriented towards industrial/manufacturing processes.

**Prerequisite:** Graduate standing.

**Schedule Type:** Individual Investigation

**Contact Hours:** 6 other

**Grade Mode:** Standard Letter-IP

**ENGR 67000 SUSTAINABLE SYSTEMS AND TECHNOLOGY 3 Credit Hours**

Introduction to the fundamental concepts and principles of sustainability, sustainable technologies and sustainable systems. Provides students with an understanding of the basic principles and key issues of environmental, social and economic sustainability. Closely examines sustainability as it applies to the relationships among human beings, technology and the environment, with a special emphasis on sustainability in the context of meeting humanity's current needs. Also stresses the ethics and importance of sustainability and the use of sustainable systems.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ENGR 67010 ETHICS, TECHNOLOGY AND THE ENVIRONMENT 3 Credit Hours**

Explores the fundamental issues of the interconnections between human beings and the environment, with an emphasis on the ethics and the importance of the sustainability. Takes an in-depth look at basic environmental concepts, ethics and values, as they relate to a wide range of practical subject matters, including technology, from global and national perspectives. Provides an in-depth look at sustainable systems and the ethical issues associated with sustainability as it relates to technology by focusing on common and future impacts as they apply to ethics, values and justice.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter



**ENGR 67220 LIFE CYCLE DESIGN I 3 Credit Hours**

An in-depth investigation of Life Cycle Design of sustainable systems. Explores the cradle to cradle path of products with an emphasis on system Life Cycle stages and processes from a sustainability perspective. Examines how environmentally conscious system design can be accomplished by considering the environmental impact of technology and engineering as the part of the sustainable design process. Includes the study of sustainable development with respect to Green Technologies, hazardous materials and processes and reducing the environmental impact of product development and utilization. Also includes an introduction to Life Cycle Assessment and various Environmental and Life Cycle standards.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter-IP

**ENGR 67221 LIFE CYCLE DESIGN II 3 Credit Hours**

An in-depth study of environmental performance, environmentally conscious design and sustainable development. Focuses on Life Cycle Analysis and Assessment as a means to determine the potential economic, environmental, and ecological impact of products, processes, and activities across their entire life cycle. Takes a close look at the beneficial and detrimental effects of various technologies, materials, products and processes with special attention to the reduction of harmful effects to human beings, the ecosystem, and the environment. Covers the analysis and assessment of energy consumption, natural resource depletion, and environmental degradation, and ways to minimize detrimental effects on the environment. Includes the use of various life cycle engineering and assessment processes, models and analytical tools to identify, evaluate, and compare the environmental consequences associated with various products/activities, across a wide range of impact categories, to assist in design and decision making.

**Prerequisite:** ENGR 67220; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter-IP

**ENGR 68196 INDIVIDUAL INVESTIGATION IN ENGINEERING GRAPHICS 2 Credit Hours**

(Repeatable for credit) Investigation of selected topics within engineering graphics, including computer-aided design.

**Prerequisite:** Graduate standing.

**Schedule Type:** Individual Investigation

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter-IP

**ENGR 68796 IND INV-IND TECH SYS DSGN 2 Credit Hours**

(Repeatable for credit) The study of two-and three dimensional design as related to manufacturing construction communication and energy power including patents creativity and problem solving approaches.

**Prerequisite:** Graduate standing.

**Schedule Type:** Individual Investigation

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter-IP

**ENGR 72111 STRENGTH OF MATERIALS FOR ENGINEERS 3 Credit Hours**

(Slashed with ENGR 42111 and ENGR 52111) The mathematical study of how materials respond to external forces. Stress, strain, torsion; deformation of thin-walled pressure vessels, beams, and columns; and an introduction to energy methods.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ENGR 72363 MATERIALS SELECTION IN DESIGN AND APPLICATIONS 3 Credit Hours**

(Slashed with ENGR 42363 and ENGR 52363) Description and analysis of procedures for selecting appropriate materials for a particular mechanical design. The affect of processing on material properties, introduction to materials science for users of materials. Extensive case studies of materials selection and materials and sustainability.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ENGR 75901 INTRODUCTION TO FINITE ELEMENT METHOD AND APPLICATIONS 3 Credit Hours**

(Slashed with ENGR 45901 and ENGR 55901) The objective of this course is to teach in a unified manner the fundamentals of the finite element method for the analysis of engineering problems arising in solids and structures. The course will emphasize the solution of real-life problems using the finite element method and students will get exposure to commercial finite element software (ANSYS or ABAQUS) and will learn to critically evaluate finite element models. Examples will be provided for solid, fluid, and heat transfer applications. Finally, developing an understanding of the computational aspects of the finite-element method and its application in realistic aerospace applications are the core goals of this course.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Laboratory, Lecture, Combined Lecture and Lab

**Contact Hours:** 2 lecture, 2 lab

**Grade Mode:** Standard Letter

**ENGR 78001 ORBITAL MECHANICS 3 Credit Hours**

(Slashed with ENGR 48001 and ENGR 58001) The course is an introduction to orbital and trajectory design. Topics include Newton's law of gravity; two-body motion, relative equations of motion; conic sections; orbits in three dimensions; orbital maneuvers; and interplanetary transfers.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ENGR 78002 SPACECRAFT ATTITUDE DYNAMICS, DETERMINATION AND CONTROL 3 Credit Hours**

(Slashed with ENGR 48002 and ENGR 58002) Spacecraft rigid body equations of motion in terms of direction cosines, angles, and quaternions. Determination of the attitude stability with external torques and coupling with orbital motion. Overview of state-of-the-art hardware and technology for attitude control, including gas jet, electric thrusters, momentum wheels and magnetic torquers; attitude sensing hardware: sun sensors, magnetometers, GPS, IMUs, star tracker. Attitude determination technique; attitude stabilization and control.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ENGR 78003 SPACECRAFT DESIGN 3 Credit Hours**

(Slashed with ENGR 58003) Spacecraft mission design course with a focus on hands-on design experience. The first portion of the course is lecture-based, topics include launch systems, space environment, spacecraft orbits, and ground tracks, spacecraft design and sizing, budget designs, subsystem design and evaluation, cost and risk. The second portion is dedicated to student teamwork on the spacecraft design.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture, Project or Capstone

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ENGR 78004 OPTIMAL CONTROL THEORY 3 Credit Hours**

(Slashed with ENGR 48004 and ENGR 58004) The course introduces students to the theory and numerical calculation of optimal space trajectories and related optimization problems in aerospace engineering. This course provides the essential technical components of space trajectory design and space trajectory optimization. Students develop basic engineering skills in formulating and solving open-ended problems and in writing a project report.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ENGR 78005 LINEAR SYSTEM ANALYSIS AND CONTROL 3 Credit Hours**

(Slashed with ENGR 58005) This course covers the analysis and synthesis of linear dynamical systems. Fundamental concepts including canonical representations, the state transition matrix, and the properties of controllability and observability will be discussed. The existence and synthesis of stabilizing feedback control laws using pole placement and linear-quadratic optimal control will be discussed.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ENGR 78006 NONLINEAR SYSTEMS AND CONTROL 3 Credit Hours**

(Slashed with ENGR 58006) Overview of stability concepts and examination of various methods for assessing stability such as linearization and Lyapunov methods. Introduction to various design methods based on linearization, sliding modes, adaptive control, and feedback linearization.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ENGR 78007 DIGITAL CONTROL SYSTEMS 3 Credit Hours**

(Slashed with ENGR 58007) This course covers design and analysis of sampled-data and digital control systems. Fundamental concepts include introduction to digital control and discrete transform (z-transform), discrete and hybrid signal flow graphs (SFGs), solution of discrete-time state space models, time-response and characteristic equations, stability analysis for discrete time systems, root locus, Bode plot, and Nyquist method for sampled data systems, pole placement, and state estimation for discrete time systems.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ENGR 78100 INTELLIGENT SENSING AND PLANNING OF UNMANNED AERIAL SYSTEMS 3 Credit Hours**

(Slashed with ENGR 58100) This course will focus on real-world environment understanding for the UAV systems. This course introduces students the state-of-the-art artificial intelligence methods for planning UAV missions in real-world.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ENGR 78200 AUTONOMOUS UNMANNED AERIAL SYSTEMS 3 Credit Hours**

(Slashed with ENGR 58200) This course provides an advanced-level understanding of unmanned aerial vehicles in physical system design, payload, and stealth design, navigation and deployment regulations. This course introduces students the state-of-the-art artificial intelligence methods for UAS deployments in different urban, forest, and water surface scenarios.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ENGR 81091 AEROSPACE SEMINAR 1 Credit Hour**

(Repeatable for credit) Discussions of selected technical topics related to aerospace engineering.

**Prerequisite:** Graduate standing.

**Schedule Type:** Seminar

**Contact Hours:** 1 other

**Grade Mode:** Standard Letter

**ENGR 85098 RESEARCH 1-6 Credit Hours**

(Repeatable for credit) Research or individual investigation. Credits are applied toward degree requirements with approval if grade of 'S' is given.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Research

**Contact Hours:** 1-6 other

**Grade Mode:** Satisfactory/Unsatisfactory

**ENGR 85199 DISSERTATION I 15 Credit Hours**

(Repeatable for credit) Doctoral dissertation, for which registration in at least two semesters is required, first of which will be semester in which dissertation work is begun and continuing until the completion of 30 hours.

**Schedule Type:** Dissertation

**Contact Hours:** 15 other

**Grade Mode:** Satisfactory/Unsatisfactory

**ENGR 85299 DISSERTATION II 15 Credit Hours**

(Repeatable for credit) Continuing registration required for doctoral students who have completed the initial 30 hours of dissertation and continuing until all degree requirements are met.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Dissertation

**Contact Hours:** 15 other

**Grade Mode:** Satisfactory/Unsatisfactory

## Engineering Technology (ENGT)

**ENGT 12005 APPLICATIONS IN COMPUTER-AIDED DESIGN 2 Credit Hours**

Course for training on the use of a popular, computer-aided drafting and design software. Practice with the advanced features of the software applicable to modern design in the graphics, mechanical, industrial and electronics fields.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**ENGT 20192 INTERNSHIP IN ENGINEERING TECHNOLOGY (ELR) 2 Credit Hours**

(Repeatable for credit) Supervised internship experience in approved business or industrial environment relative to the student's major. The internship experience must be for a period of at least 12 consecutive weeks at 25 hours per week, or 20 hours per week for 15 weeks, totaling not less than 300 hours. Most co-ops occur during the summer.

**Prerequisite:** Sophomore standing; and special approval.

**Schedule Type:** Practical Experience

**Contact Hours:** 20 other

**Grade Mode:** Standard Letter

**Attributes:** Experiential Learning Requirement

**ENGT 22000 STATISTICAL PROCESS CONTROL 4 Credit Hours**

Process variability, process monitoring, statistical methods using control charts for variables and attributes; acceptance sampling plans; process capability, process adjustment, process improvement.

**Prerequisite:** Special approval.

**Schedule Type:** Lecture

**Contact Hours:** 4 lecture

**Grade Mode:** Standard Letter

**ENGT 22003 SUPERVISION AND LABOR RELATIONS 5 Credit Hours**

Practical methods and techniques for improving supervision and labor relations in industry. Personnel and performance evaluation, implementing policy, labor contracts, collective bargaining, wage and salary administration.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 5 lecture

**Grade Mode:** Standard Letter

**ENGT 22006 ECONOMIC DECISION ANALYSIS 3 Credit Hours**

Economic decision making for industrial engineering technology with applications emphasis, estimating economic elements, interest and economic equivalence, methods of comparing alternatives and evaluating replacement alternatives.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** TAG Engineering

**ENGT 22009 ENGINEERING TECHNOLOGY PROJECT 2 Credit Hours**

A practical, hands-on experience which emphasizes the integration of analytical and design skills acquired in companion courses. Students will work in teams under direct faculty supervision. Engineering communication such as reports and oral presentations are covered. The capstone design projects include creative and challenging projects within the engineering discipline.

**Prerequisite:** None.

**Corequisite:** EERT 22014.

**Schedule Type:** Lecture

**Contact Hours:** 1 lecture, 2 lab

**Grade Mode:** Standard Letter

**ENGT 22010 COMPUTER INTEGRATED MANUFACTURING 3 Credit Hours**

Planning, developing and implementing a strategy to control and coordinate all the engineering production and business operations within a manufacturing enterprise.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ENGT 30000 ADVANCED MANUFACTURING 3 Credit Hours**

This course will introduce students to the concepts of advanced manufacturing technologies, processes and equipment. Covered topics include automation and process control, flexible manufacturing systems, and manufacturing using additive processes such as 3D printing. Students will learn hands on programming and operation of relevant equipment during the laboratory sessions.

**Prerequisite:** Junior standing.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 2 lecture, 2 lab

**Grade Mode:** Standard Letter

**ENGT 33095 SPECIAL TOPICS IN ENGINEERING TECHNOLOGY 1-4 Credit Hours**

Special topics of immediate interest in engineering technology.

**Prerequisite:** Junior standing.

**Schedule Type:** Lecture

**Contact Hours:** 1-4 lecture

**Grade Mode:** Standard Letter

**ENGT 42003 LEAN MANUFACTURING, SIX SIGMA AND OPERATIONS TECHNOLOGY 3 Credit Hours**

Designed to provide a better understanding of the components and underlying philosophy of Theory of Constraints, Lean, and Six Sigma and how the elements and philosophies work together to support an companies operational plan.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ENGT 43092 ENGINEERING TECHNOLOGY PRACTICUM (ELR) 1-3 Credit Hours**

(Repeatable for a maximum to 3 credit hours) Supervised work experience. One credit hour for 50 work hours.

**Prerequisite:** None.

**Schedule Type:** Practical Experience

**Contact Hours:** 3.33-10 other

**Grade Mode:** Satisfactory/Unsatisfactory

**Attributes:** Experiential Learning Requirement

## English (ENG)

### ENG 01001 INTRODUCTION TO COLLEGE WRITING-STRETCH 3 Credit Hours

Introduces the instruction and experiences necessary for students to acquire college-level literacy, with an emphasis on reading and writing college level texts. Course does not count toward graduation.

**Prerequisite:** ACT English score of 0-17; or SAT Evidence Based Reading and Writing score of 200-470; or WritePlacer score of 0-3; or Accuplacer Reading Comprehension score of 0-79 and WritePlacer score of 4.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

### ENG 02001 ESL WRITING LEVEL I 2 Credit Hours

Introduction to the writing process. Review of basic syntactic and morphological patterns and sentence and paragraph organization. Support of vocabulary development. Students are placed in appropriate course based on test score. Course does not count toward graduation.

**Prerequisite:** None (placement and registration done by the department).

**Schedule Type:** Lecture

**Contact Hours:** 2.33 lecture

**Grade Mode:** Standard Letter

### ENG 02002 ESL WRITING LEVEL II 2 Credit Hours

Introduction to basic knowledge of sentence structure and development of ability to write with more sentence variety. Practice of standard paragraph format. Course does not count toward graduation.

**Prerequisite:** None (placement and registration done by the department).

**Schedule Type:** Lecture

**Contact Hours:** 2.33 lecture

**Grade Mode:** Standard Letter

### ENG 02003 ESL WRITING LEVEL III 2 Credit Hours

Review and practice of writing narrative and descriptive paragraphs. Analysis and self-correction; support of vocabulary expansion and practice of syntax of statements in paragraphs through relevant topics. Course does not count toward graduation.

**Prerequisite:** None (placement and registration done by the department).

**Schedule Type:** Lecture

**Contact Hours:** 2.33 lecture

**Grade Mode:** Standard Letter

### ENG 02004 ESL WRITING LEVEL IV 2 Credit Hours

Development of narrative, descriptive and explanatory paragraphs into essays; practice of prewriting activities. Support of vocabulary expansion and focus on transitioning from simple to complex sentences in paragraphs. Course does not count toward graduation.

**Prerequisite:** None (placement and registration done by the department).

**Schedule Type:** Lecture

**Contact Hours:** 2.33 lecture

**Grade Mode:** Standard Letter

### ENG 02005 ESL WRITING LEVEL V 2 Credit Hours

Introduction to the purpose, format and structure of an essay. Practice of narrative and explanatory essays. Course does not count toward graduation.

**Prerequisite:** None (placement and registration done by the department).

**Schedule Type:** Lecture

**Contact Hours:** 2.33 lecture

**Grade Mode:** Standard Letter

### ENG 02006 ESL WRITING LEVEL VI 2 Credit Hours

Review and practice of the purpose, format and structure of an essay. Focus on response essays; practice of parallel constructions, quotations, and the use of outside sources. Course does not count toward graduation.

**Prerequisite:** None (placement and registration done by the department).

**Schedule Type:** Lecture

**Contact Hours:** 2.33 lecture

**Grade Mode:** Standard Letter

### ENG 02007 ESL WRITING LEVEL VII 2 Credit Hours

Review of formatting and structuring essays. Practice of explanatory essays; focus on outlining, summarizing and citations; review of selected text-type specific grammatical features. Course does not count toward graduation.

**Prerequisite:** None (placement and registration done by the department).

**Schedule Type:** Lecture

**Contact Hours:** 2.33 lecture

**Grade Mode:** Standard Letter

### ENG 02101 ESL READING LEVEL I 2 Credit Hours

Introduction to basic reading strategies such as recognizing and differentiating between main and supporting ideas; skimming and scanning and making inferences. Support of vocabulary development. Students will be placed in the appropriate course based on test score. Course does not count toward graduation.

**Prerequisite:** None (placement and registration done by the department).

**Schedule Type:** Lecture

**Contact Hours:** 2.33 lecture

**Grade Mode:** Standard Letter

### ENG 02102 ESL READING LEVEL II 2 Credit Hours

Practice in basic reading strategies and development. Support of vocabulary development. Course does not count toward graduation.

**Prerequisite:** None (placement and registration done by the department).

**Schedule Type:** Lecture

**Contact Hours:** 2.33 lecture

**Grade Mode:** Standard Letter

### ENG 02103 ESL READING LEVEL III 2 Credit Hours

Practice in reading strategies such as recognizing and differentiating between main and supporting ideas of paragraphs and entire texts; skimming and scanning and making inferences. Support of vocabulary development. Course does not count toward graduation.

**Prerequisite:** None (placement and registration done by the department).

**Schedule Type:** Lecture

**Contact Hours:** 2.33 lecture

**Grade Mode:** Standard Letter

### ENG 02104 ESL READING LEVEL IV 2 Credit Hours

Practice of reading and summarizing strategies; skimming and scanning texts; support of vocabulary development. Course does not count toward graduation.

**Prerequisite:** None (placement and registration done by the department).

**Schedule Type:** Lecture

**Contact Hours:** 2.33 lecture

**Grade Mode:** Standard Letter



**ENG 02105 ESL READING LEVEL V 2 Credit Hours**

Practice of reading strategies; skimming and scanning; focus on inferences from background information and culturally specific references. Support of vocabulary development. Course does not count toward graduation.

**Prerequisite:** None (placement and registration done by the department).

**Schedule Type:** Lecture

**Contact Hours:** 2.33 lecture

**Grade Mode:** Standard Letter

**ENG 02106 ESL READING LEVEL VI 2 Credit Hours**

Practice of reading strategies; skimming and scanning texts; inferences in non-explicit contexts using background information. Culturally specific references and cultural schemata. Support of vocabulary development; strengthening awareness of word-formation. Course does not count toward graduation.

**Prerequisite:** None (placement and registration done by the department).

**Schedule Type:** Lecture

**Contact Hours:** 2.33 lecture

**Grade Mode:** Standard Letter

**ENG 02107 ESL READING LEVEL VII 2 Credit Hours**

Practice identifying communicative functions of texts; reading strategies such as recognizing and differentiating between main and supporting ideas; skimming and scanning. Support of vocabulary development. Course does not count toward graduation.

**Prerequisite:** None (placement and registration done by the department).

**Schedule Type:** Lecture

**Contact Hours:** 2.33 lecture

**Grade Mode:** Standard Letter

**ENG 02201 ESL LISTENING LEVEL I 2 Credit Hours**

Practice in basic listening strategies, including listening for detail and gist, key words, names, formal and informal forms of address, greetings and conversation endings, acceptance and refusals, etc. Students are placed in the appropriate course based on test scores. Course does not count toward graduation.

**Prerequisite:** None (placement and registration done by the department).

**Schedule Type:** Lecture

**Contact Hours:** 2.33 lecture

**Grade Mode:** Standard Letter

**ENG 02202 ESL LISTENING LEVEL II 2 Credit Hours**

Practice in basic listening strategies, including listening for detail and gist, key words, locations, numbers, acceptances and refusals, opinions, etc. as appropriate to level. Course does not count toward graduation.

**Prerequisite:** None (placement and registration done by the department).

**Schedule Type:** Lecture

**Contact Hours:** 2.33 lecture

**Grade Mode:** Standard Letter

**ENG 02203 ESL LISTENING LEVEL III 2 Credit Hours**

Practice in listening strategies through predicting, using background knowledge and contextual information in order to listen for detail and gist, key words, connecting themes; comparing and summarizing as well as note-taking as appropriate to level. Course does not count toward graduation.

**Prerequisite:** None (placement and registration done by the department).

**Schedule Type:** Lecture

**Contact Hours:** 2.33 lecture

**Grade Mode:** Standard Letter

**ENG 02204 ESL LISTENING LEVEL IV 2 Credit Hours**

Practice in listening strategies through predicting, using background knowledge and contextual information in order to listen for detail and gist, key words, emphasis, stance and speaker's feelings; comparing and summarizing as well as note-taking as appropriate to level. Course does not count toward graduation.

**Prerequisite:** None (placement and registration done by the department).

**Schedule Type:** Lecture

**Contact Hours:** 2.33 lecture

**Grade Mode:** Standard Letter

**ENG 02205 ESL LISTENING LEVEL V 2 Credit Hours**

Practice in listening strategies through predicting, using background knowledge and contextual information in order to listen for detail and gist, key words; comparing and summarizing as well as note-taking as appropriate to level. Course does not count toward graduation.

**Prerequisite:** None (placement and registration done by the department).

**Schedule Type:** Lecture

**Contact Hours:** 2.33 lecture

**Grade Mode:** Standard Letter

**ENG 02206 ESL LISTENING LEVEL VI 2 Credit Hours**

Practice in listening strategies through predicting, using background knowledge and contextual information; focus on detail and gist, key words, and meanings from stress, rhythm and intonation. Includes colloquial English. Course does not count toward graduation.

**Prerequisite:** None (placement and registration done by the department).

**Schedule Type:** Lecture

**Contact Hours:** 2.33 lecture

**Grade Mode:** Standard Letter

**ENG 02207 ESL LISTENING LEVEL VII 2 Credit Hours**

Practice in listening strategies through predicting, using background knowledge and contextual information; focus on detail and gist, key words, stance and speaker's feelings; comparing and summarizing as well as note-taking as appropriate to level. Course does not count toward graduation.

**Prerequisite:** None (placement and registration done by the department).

**Schedule Type:** Lecture

**Contact Hours:** 2.33 lecture

**Grade Mode:** Standard Letter

**ENG 02301 ESL SPEAKING LEVEL I 1 Credit Hour**

Development of basic speaking skills while processing verbal and nonverbal information in both formal and informal contexts. Focus on fluency building using simple sentences. Support of vocabulary building when receiving and producing oral messages. Students are enrolled in the appropriate course based on test score. Course does not count toward graduation.

**Prerequisite:** None (placement and registration done by the department).

**Schedule Type:** Lecture

**Contact Hours:** 1.4 lecture

**Grade Mode:** Standard Letter

**ENG 02302 ESL SPEAKING LEVEL II 1 Credit Hour**

Practice of basic speaking skills while processing verbal and nonverbal information in both formal and informal contexts. Focus on fluency building using simple sentences. Support of vocabulary building when receiving and producing oral messages as appropriate to level. Course does not count toward graduation.

**Prerequisite:** None (placement and registration done by the department).

**Schedule Type:** Lecture

**Contact Hours:** 1.4 lecture

**Grade Mode:** Standard Letter



**ENG 02303 ESL SPEAKING LEVEL III 1 Credit Hour**

Practices basic speaking skills while processing verbal and nonverbal information in both formal and informal contexts. Focus on fluency building using more complex sentences. Support of vocabulary building when receiving and producing oral messages as appropriate to level. Course does not count toward graduation.

**Prerequisite:** None (placement and registration done by the department).

**Schedule Type:** Lecture

**Contact Hours:** 1.4 lecture

**Grade Mode:** Standard Letter

**ENG 02304 ESL SPEAKING LEVEL IV 1 Credit Hour**

Practice of speaking skills while processing verbal and nonverbal information in both formal and informal contexts. Focus on fluency building using more complex sentences. Support of vocabulary building when receiving and producing oral messages as appropriate to level. Course does not count toward graduation.

**Prerequisite:** None (placement and registration done by the department).

**Schedule Type:** Lecture

**Contact Hours:** 1.4 lecture

**Grade Mode:** Standard Letter

**ENG 02305 ESL SPEAKING LEVEL V 1 Credit Hour**

Practice of speaking skills while processing verbal and nonverbal information in both formal and informal contexts. Focus on fluency building using more complex sentences and improvement in accuracy. Support of vocabulary building when receiving and producing oral messages as appropriate to level. Course does not count toward graduation.

**Prerequisite:** None (placement and registration done by the department).

**Schedule Type:** Lecture

**Contact Hours:** 1.4 lecture

**Grade Mode:** Standard Letter

**ENG 02306 ESL SPEAKING LEVEL VI 1 Credit Hour**

Practice of speaking skills while processing verbal and nonverbal information in both formal and informal contexts. Focus on fluency building using more complex sentences and improvement in accuracy. Support of vocabulary building when receiving and producing oral messages as appropriate to level. Course does not count toward graduation.

**Prerequisite:** None (placement and registration done by the department).

**Schedule Type:** Lecture

**Contact Hours:** 1.4 lecture

**Grade Mode:** Standard Letter

**ENG 02307 ESL SPEAKING LEVEL VII 1 Credit Hour**

Practice of speaking skills while processing verbal and nonverbal information in both formal and informal contexts. Focus on fluency building using more complex sentences and improvement in accuracy. Support of vocabulary building when receiving and producing oral messages as appropriate to level. Course does not count toward graduation.

**Prerequisite:** None (placement and registration done by the department).

**Schedule Type:** Lecture

**Contact Hours:** 1.4 lecture

**Grade Mode:** Standard Letter

**ENG 02401 ESL GRAMMAR LEVEL I 2 Credit Hours**

Introduction to word classes, especially verbs (including regular and irregular forms, tense and aspect, imperative), statement and question syntax, positive and negative clauses. Students are placed in appropriate course based on test score. Course does not count toward graduation.

**Prerequisite:** None (placement and registration done by the department).

**Schedule Type:** Lecture

**Contact Hours:** 2.33 lecture

**Grade Mode:** Standard Letter

**ENG 02402 ESL GRAMMAR LEVEL II 2 Credit Hours**

Application of word classes, especially verbs (including tense and aspect), modal verbs, gerunds and infinitives, nouns (count and non-count), adjectives and adverbs (comparison), statement and question syntax, positive and negative clauses. Course does not count toward graduation.

**Prerequisite:** None (placement and registration done by the department).

**Schedule Type:** Lecture

**Contact Hours:** 2.33 lecture

**Grade Mode:** Standard Letter

**ENG 02403 ESL GRAMMAR LEVEL III 2 Credit Hours**

Application of word classes, especially verbs and phrasal verbs (tense and aspect), present and future modal verbs, nouns and pronouns, as well as statement and question syntax, positive and negative clauses at appropriate level. Course does not count toward graduation.

**Prerequisite:** None (placement and registration done by the department).

**Schedule Type:** Lecture

**Contact Hours:** 2.33 lecture

**Grade Mode:** Standard Letter

**ENG 02404 ESL GRAMMAR LEVEL IV 2 Credit Hours**

Application of word classes, especially verbs and phrasal verbs (tense and aspect), gerunds and infinitives, nouns, articles, adjectives, adverbs, statement and question syntax, positive and negative clauses at appropriate level. Course does not count toward graduation.

**Prerequisite:** None (placement and registration done by the department).

**Schedule Type:** Lecture

**Contact Hours:** 2.33 lecture

**Grade Mode:** Standard Letter

**ENG 02405 ESL GRAMMAR LEVEL V 2 Credit Hours**

Application of word classes, especially verbs (tense and aspect), causal and phrasal verb syntax, verbal nouns, conjoiners, as well as statement and question syntax, positive and negative clauses and question tags as appropriate to level. Course does not count toward graduation.

**Prerequisite:** None (placement and registration done by the department).

**Schedule Type:** Lecture

**Contact Hours:** 2.33 lecture

**Grade Mode:** Standard Letter

**ENG 02406 ESL GRAMMAR LEVEL VI 2 Credit Hours**

Application of verb tenses and aspects, modality and passive voice, as well as clause structures and functions (noun clauses, adjective clauses) as appropriate to level. Course does not count toward graduation.

**Prerequisite:** None (placement and registration done by the department).

**Schedule Type:** Lecture

**Contact Hours:** 2.33 lecture

**Grade Mode:** Standard Letter

**ENG 02407 ESL GRAMMAR LEVEL VII 2 Credit Hours**

Application of verb tenses and aspects, passive voice, modal verbs, noun phrases, subject-verb agreement, clause structures and functions (interrogative clauses, noun clauses, adjective clauses) as appropriate to level. Course does not count toward graduation.

**Prerequisite:** None (placement and registration done by the department).

**Schedule Type:** Lecture

**Contact Hours:** 2.33 lecture

**Grade Mode:** Standard Letter

**ENG 02500 ESL PRONUNCIATION 1 Credit Hour**

(Repeatable for a maximum of 2 credit hours) Study of English pronunciation with practice in segmental and suprasegmental features (sounds, sound combinations, syllables, stress, rhythm, and intonation). Students are placed in the appropriate course based on test score.

Course does not count toward graduation.

**Prerequisite:** None (placement and registration done by the department).

**Schedule Type:** Lecture

**Contact Hours:** 1.4 lecture

**Grade Mode:** Standard Letter

**ENG 11002 COLLEGE WRITING I-STRETCH (KCMP) 3 Credit Hours**

Continues the instruction and practice necessary to write for college, with emphasis on the reading, thinking, writing and technological skills necessary for writing college level texts.

**Prerequisite:** ENG 01001 with a minimum C grade; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Kent Core Composition, Transfer Module Composition

**ENG 11011 COLLEGE WRITING I (KCMP) 3 Credit Hours**

The study and practice of academic writing, including an introduction to rhetorical principles, the writing process, critical reading, research, and technology. Students with a GED Reasoning Through Language Arts score of 165 or higher need to contact the department for approval.

**Prerequisite:** ACT English score of 18-25; or SAT Evidence Based Reading and Writing score of 480-590; or Accuplacer Reading Comprehension score of 80 or higher and WritePlacer score of 4; or WritePlacer score 5 or higher.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Kent Core Composition, Transfer Module Composition

**ENG 12008 ESL WRITING LEVEL VIII 2 Credit Hours**

Review and practice of formatting and structuring essays depending on varying content and audience. Focus on persuasive and response essays; practice of outlining, summarizing and citation; review of selected text-type specific grammatical features.

**Prerequisite:** None (placement and registration done by the department).

**Schedule Type:** Lecture

**Contact Hours:** 2.33 lecture

**Grade Mode:** Standard Letter

**ENG 12009 ESL WRITING LEVEL IX 2 Credit Hours**

Review and practice of formatting and structuring essays for academic vs. non-academic purposes. Practice of paraphrasing, summarizing and citation; review of selected text-type specific grammatical features.

**Prerequisite:** None (placement and registration done by the department).

**Schedule Type:** Lecture

**Contact Hours:** 2.33 lecture

**Grade Mode:** Standard Letter

**ENG 12010 ESL WRITING LEVEL X 2 Credit Hours**

Review and practice of formatting and structuring essays for academic vs. non-academic purposes. Practice with cause and effect, compare and contrast and argumentation. Practice of paraphrasing, summarizing and citation and review of selected text-type specific grammatical features.

**Prerequisite:** None (placement and registration done by the department).

**Schedule Type:** Lecture

**Contact Hours:** 2.33 lecture

**Grade Mode:** Standard Letter

**ENG 12095 SPECIAL TOPICS IN ENGLISH AS SECOND LANGUAGE 1-2 Credit Hours**

(Repeatable for credit) Overview of skills related to a special topic in second language learning.

**Prerequisite:** None (placement and registration done by the department).

**Schedule Type:** Lecture

**Contact Hours:** 1.4-2.33 lecture

**Grade Mode:** Standard Letter

**ENG 12108 ESL READING LEVEL VIII 2 Credit Hours**

Practice identifying communicative functions of texts; practice reading strategies. Support of vocabulary development and extensive reading.

**Prerequisite:** None (placement and registration done by the department).

**Schedule Type:** Lecture

**Contact Hours:** 2.33 lecture

**Grade Mode:** Standard Letter

**ENG 12109 ESL READING LEVEL IX 2 Credit Hours**

Identifying communicative functions of texts; reading strategies; skimming and scanning. Support of vocabulary development and extensive reading.

**Prerequisite:** None (placement and registration done by the department).

**Schedule Type:** Lecture

**Contact Hours:** 2.33 lecture

**Grade Mode:** Standard Letter

**ENG 12110 ESL READING LEVEL X 2 Credit Hours**

Practice with communicative functions of texts; strategies for academic reading. Support of vocabulary development and extensive reading.

**Prerequisite:** None (placement and registration done by the department).

**Schedule Type:** Lecture

**Contact Hours:** 2.33 lecture

**Grade Mode:** Standard Letter

**ENG 12208 ESL LISTENING LEVEL VIII 2 Credit Hours**

Practice in listening strategies through predicting, using background knowledge and contextual information; focus on detail and gist, key words, stance and speaker's feelings; comparing and summarizing as well as note-taking and meanings from stress, rhythm and intonation as appropriate to level.

**Prerequisite:** None (placement and registration done by the department).

**Schedule Type:** Lecture

**Contact Hours:** 2.33 lecture

**Grade Mode:** Standard Letter

**ENG 12209 ESL LISTENING LEVEL IX 2 Credit Hours**

Practice in listening strategies through predicting, using background knowledge and contextual information; focus on detail and gist, key words, stance and schemata. Emphasis on listening for academic purposes; practice in note-taking.

**Prerequisite:** None (placement and registration done by the department).

**Schedule Type:** Lecture

**Contact Hours:** 2.33 lecture

**Grade Mode:** Standard Letter

**ENG 12210 ESL LISTENING LEVEL X 2 Credit Hours**

Practice in listening strategies through predicting, using background knowledge and contextual information; focus on detail and gist, key words, stance and schemata. Emphasis on listening for academic purposes; practice in note-taking.

**Prerequisite:** None (placement and registration done by the department).

**Schedule Type:** Lecture

**Contact Hours:** 2.33 lecture

**Grade Mode:** Standard Letter

**ENG 12308 ESL SPEAKING LEVEL VIII 1 Credit Hour**

Practice of speaking skills while processing verbal and nonverbal information in both formal and informal contexts. Focus on natural fluency and accuracy as well as pragmatic appropriateness. Support of vocabulary building when receiving and producing oral messages as appropriate to level.

**Prerequisite:** None (placement and registration done by the department).

**Schedule Type:** Lecture

**Contact Hours:** 1.4 lecture

**Grade Mode:** Standard Letter

**ENG 12309 ESL SPEAKING LEVEL IX 1 Credit Hour**

Practice of speaking skills while processing verbal and nonverbal information in both formal and informal contexts. Focus on natural fluency and accuracy as well as pragmatic appropriateness. Support of vocabulary building when receiving and producing oral messages as appropriate to level.

**Prerequisite:** None (placement and registration done by the department).

**Schedule Type:** Lecture

**Contact Hours:** 1.4 lecture

**Grade Mode:** Standard Letter

**ENG 12310 ESL SPEAKING LEVEL X 1 Credit Hour**

Practice of speaking skills while processing verbal and nonverbal information in both formal and informal contexts. Focus on natural fluency and accuracy as well as pragmatic appropriateness. Support of vocabulary building when receiving and producing oral messages as appropriate to level.

**Prerequisite:** None (placement and registration done by the department).

**Schedule Type:** Lecture

**Contact Hours:** 1.4 lecture

**Grade Mode:** Standard Letter

**ENG 12408 ESL GRAMMAR LEVEL VIII 2 Credit Hours**

Application of verb tenses and aspects, passive voice, modal verbs, gerunds and infinitives, coordinating conjunctions as well as clause structures and functions (noun clauses, adjective clauses, adverbial clauses) as appropriate to level.

**Prerequisite:** None (placement and registration done by the department).

**Schedule Type:** Lecture

**Contact Hours:** 2.33 lecture

**Grade Mode:** Standard Letter

**ENG 12409 ESL GRAMMAR LEVEL IX 2 Credit Hours**

Application of verb tenses and aspects, passive voice, nominals, interrogative syntax as well as clause structures and functions (dependent vs. independent clauses; reducing dependent clauses; conditional clauses) as appropriate to level.

**Prerequisite:** None (placement and registration done by the department).

**Schedule Type:** Lecture

**Contact Hours:** 2.33 lecture

**Grade Mode:** Standard Letter

**ENG 12410 ESL GRAMMAR LEVEL X 2 Credit Hours**

Application of verb tenses and aspects, passive voice, nominals, adverbials, interrogative syntax as well as clause structures and functions (dependent vs. independent clauses; clause reductions; conditional clauses) as appropriate to level.

**Prerequisite:** None (placement and registration done by the department).

**Schedule Type:** Lecture

**Contact Hours:** 2.33 lecture

**Grade Mode:** Standard Letter

**ENG 12507 ESL DEBATE 1 Credit Hour**

(Repeatable for a maximum of 2 credit hours) Practice of skills for persuasive speaking, making effective arguments and active listening. Engagement in formal and informal debates and presentations. Must score minimum level 7 on proficiency test.

**Prerequisite:** None (placement and registration done by the department).

**Schedule Type:** Lecture

**Contact Hours:** 1.4 lecture

**Grade Mode:** Standard Letter

**ENG 12508 ESL PUBLIC SPEAKING 1 Credit Hour**

(Repeatable for a maximum of 2 credit hours) Preparation for continued academic study and professional advancement, including effective techniques for speaking in public. Design and analysis of speeches and presentations. Must score minimum level 8 on proficiency test.

**Prerequisite:** None (placement and registration done by the department).

**Schedule Type:** Lecture

**Contact Hours:** 1.4 lecture

**Grade Mode:** Standard Letter

**ENG 12605 ESL AMERICAN CULTURE I 2 Credit Hours**

Overview of basic American values and beliefs related to history, immigration, diversity, and geography. Must score minimum level 5 on proficiency test.

**Prerequisite:** None (placement and registration done by the department).

**Schedule Type:** Lecture

**Contact Hours:** 2.33 lecture

**Grade Mode:** Standard Letter

**ENG 12606 ESL AMERICAN CULTURE II 2 Credit Hours**

Overview of basic American values and beliefs related to education, holidays, government and politics, the criminal justice system, America in the 21st century, etc. Must score minimum level 6 on proficiency test.

**Prerequisite:** None (placement and registration done by the department).

**Schedule Type:** Lecture

**Contact Hours:** 2.33 lecture

**Grade Mode:** Standard Letter

**ENG 12707 ESL BUSINESS ENGLISH I 2 Credit Hours**

Overview of business communication, business writing strategies, and computer skills in the workplace. Must score minimum level 7 on proficiency test.

**Prerequisite:** Special approval.

**Schedule Type:** Lecture

**Contact Hours:** 5 lecture

**Grade Mode:** Standard Letter

**ENG 12708 ESL BUSINESS ENGLISH II 2 Credit Hours**

Development of oral and written business communication skills.

**Prerequisite:** ENG 12707 with a minimum C- grade; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 5 lecture

**Grade Mode:** Standard Letter

**ENG 12801 ESL ACADEMIC SUCCESS 1 Credit Hour**

This class will provide transitional support for students preparing to enter an undergraduate or graduate course of study from the ESL Center. Students will focus on the social, cultural, and academic skills needed to be competent and successful in an American university setting including understanding university policies, academic expectations, and cultural norms.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 1 lecture

**Grade Mode:** Standard Letter

**ENG 20002 INTRODUCTION TO TECHNICAL WRITING 3 Credit Hours**

Introduction to communication practices within technical communities. Planning, drafting, revising and editing. Process descriptions, object descriptions, instructional texts, technical correspondence, problem reports, critical reflection.

**Prerequisite:** ACT English score of 26 or higher; or SAT Evidence Based Reading and Writing score of 600 or higher; or minimum C- grade in ENG 11002, ENG 11011 or HONR 10197.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ENG 20021 INTRODUCTION TO CREATIVE WRITING 3 Credit Hours**

Practice in various forms of creative writing with some emphasis on student interests and on sources of creativity.

**Prerequisite:** Minimum 26 ACT combined English/writing score; or minimum 600 SAT writing score; or ENG 11002, or ENG 11011 or HONR 10197.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ENG 21001 INTRODUCTION TO ETHNIC LITERATURE OF THE UNITED STATES (DIVD) 3 Credit Hours**

Study of selected ethnic American writers; may include works by African, Asian, Hispanic, Jewish, Native Americans and other groups.

**Prerequisite:** Minimum 26 ACT combined English/writing score; or minimum 600 SAT writing score; or ENG 11002 or ENG 11011 or HONR 10197.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Diversity Domestic

**ENG 21002 INTRODUCTION TO WOMEN'S LITERATURE (DIVD) 3 Credit Hours**

Introduction to works by women writing in English, and to literary and gender issues they raise.

**Prerequisite:** Minimum 26 ACT combined English/writing score; or minimum 600 SAT writing score; or ENG 11002 or ENG 11011 or HONR 10197.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Diversity Domestic

**ENG 21003 INTRODUCTION TO LGBT LITERATURE (DIVD) 3 Credit Hours**

Introduction to lesbian, gay, bisexual and transgender literature in English and to issues of gender, sexuality and culture raised by this literature.

**Prerequisite:** ACT English score of 26 or higher; or SAT Evidence based Reading and Writing score of 600 or higher; or ENG 11002, ENG 11011, or HONR 10197.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Diversity Domestic

**ENG 21011 COLLEGE WRITING II (KCMP) 3 Credit Hours**

Continuation of college-level writing instruction with emphasis on research and inquiry, culminating in a lengthy written and/or multi-modal project.

**Prerequisite:** ACT English score of 26 or higher; or SAT Evidence Based Reading and Writing score of 600 or higher; or minimum C- grade in ENG 11002, ENG 11011, or HONR 10197.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Kent Core Composition, Transfer Module Composition

**ENG 21054 INTRODUCTION TO SHAKESPEARE (KHUM) 3 Credit Hours**

Study of representative plays and poems in the context of Shakespeare's age, his language and his cultural influence.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Kent Core Humanities, Transfer Module Humanities

**ENG 22071 GREAT BOOKS TO 1700 (KHUM) 3 Credit Hours**

Great works of world literature read in English, from ancient world to 1700, covering a wide range of ethnic and national voices, genres and traditions.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Kent Core Humanities, Transfer Module Humanities

**ENG 22072 GREAT BOOKS SINCE 1700 (KHUM) 3 Credit Hours**

Great works of world literature read in English, from 1700 to today, covering a wide range of ethnic and national voices, genres and traditions.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Kent Core Humanities, Transfer Module Humanities

**ENG 22073 MAJOR MODERN WRITERS: BRITISH AND UNITED STATES (KHUM) 3 Credit Hours**

Introduction to British and U.S. writers of the 20th and 21st centuries; study of their works in their literary and cultural contexts.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Kent Core Humanities, Transfer Module Humanities



**ENG 24001 INTRODUCTION TO LITERARY STUDY 3 Credit Hours**  
Introduction to techniques for reading and writing about literature, with emphasis on reading strategies for prose, poetry and drama. Literary terms, composition of interpretive essays, and literary research is also studied.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ENG 24002 INTRODUCTION TO COMPOSITION THEORY 3 Credit Hours**

Provides an introduction to composition theory, research in writing studies and pedagogical practices for academic writing. Students learn different methods of teaching writing by producing essays and projects within different genres and by applying different approaches to composition to their own work. Students examine writing, as well as research and teaching about writing, as socially, politically and historically situated activities.

**Prerequisite:** ACT English score of 26 or higher; or SAT Evidence based Reading and Writing score of 600 or higher; or ENG 11002, ENG 11011 or HONR 10197.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ENG 25001 LITERATURE IN ENGLISH I 3 Credit Hours**

British literature written before 1800 studied within a broad historical context. Comprehensive introduction to knowledge and skills that serve as a foundation for further study in literature.

**Prerequisite:** ACT English score of 26 or higher; or SAT Evidence based Reading and Writing score of 600 or higher; or ENG 11002, ENG 11011, or HONR 10197.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** TAG Arts and Humanities

**ENG 25002 LITERATURE IN ENGLISH II 3 Credit Hours**

British literature written since 1800 studied within a broad historical context. Comprehensive introduction to knowledge and skills that serve as a foundation for further study in literature.

**Prerequisite:** ACT English score of 26 or higher; or SAT Evidence Based Reading and Writing score of 600 or higher; or ENG 11002, ENG 11011, or HONR 10197.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** TAG Arts and Humanities

**ENG 25004 LITERATURE IN THE UNITED STATES I 3 Credit Hours**

U.S. literature from the colonial period until 1865 studies within a broad historical context. Comprehensive introduction to knowledge and skills that serve as a foundation for further study in literature.

**Prerequisite:** ACT English score of 26 or higher; or SAT Evidence Based Reading and Writing score of 600 or higher; or ENG 11002, ENG 11011, or HONR 10197.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** TAG Arts and Humanities

**ENG 25005 LITERATURE IN THE UNITED STATES II 3 Credit Hours**  
U.S. literature from 1865 to the present studied within a broad historical context. Comprehensive introduction to knowledge and skills that serve as a foundation for further study in literature.

**Prerequisite:** ACT English score of 26 or higher; or SAT Evidence based Reading and Writing score of 600 or higher; or ENG 11002, ENG 11011, or HONR 10197.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** TAG Arts and Humanities

**ENG 26001 POPULAR FORMS OF LITERATURE 3 Credit Hours**

Introduction to popular forms of literature such as the western, the detective story, science fiction, fantasy, the war story and others.

**Prerequisite:** Minimum 26 ACT combined English/writing score; or minimum 600 SAT writing score; or ENG 11002; or ENG 11011; or HONR 10197.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ENG 26095 SOPHOMORE SPECIAL TOPICS 3 Credit Hours**

(Repeatable for credit) In-depth study of a particular writer, theme or literary movement, such as literature and film, gothic novels.

**Prerequisite:** ACT English score of 26 or higher; or SAT Evidence based Reading and Writing score of 600 or higher; or ENG 11002, ENG 11011, or HONR 10197.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ENG 30001 ENGLISH STUDIES (WIC) 3 Credit Hours**

Writing about and reading in a variety of texts and critical modes as an introduction to critical thinking and writing. Emphasis on the application of principles and methods of literary study to selected texts.

**Prerequisite:** ENG 21011 or HONR 10297.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Writing Intensive Course

**ENG 30050 WRITING AND RHETORIC IN A DIGITAL AGE 3 Credit Hours**

Writing course with a focus on learning and using a variety of tools available within contemporary digital composing environments.

**Prerequisite:** ENG 21011 or HONR 10297.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ENG 30051 WRITING, RHETORIC AND NEW MEDIA 3 Credit Hours**

Rhetorical principles for multimodal writing to produce rhetorically effective professional, scholarly, personal, and civic texts that integrate some blend of written word, visuals, images, audio and video.

**Prerequisite:** ENG 21011 or HONR 10297.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter



**ENG 30052 MEDICAL AND SCIENTIFIC WRITING 3 Credit Hours**

Explores the communication principles and practices which occur in medical, health scientific, and scientific contexts. Students gain extensive individual and collaborative practice in writing about medicine and science for diverse audiences.

**Prerequisite:** ENG 21011 or HONR 10297.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ENG 30061 WRITING IN BUSINESS 2 Credit Hours**

Introduces students to writing practices in business settings, helping students to understand several of the ways that business writing differs from academic writing. Students learn practical skills related to addressing audience expectations relative to the purpose of the message, applying appropriate formats to business documents, integrating graphics commonly used in business documents, and using principles of rhetoric to convey a message effectively and concisely.

**Prerequisite:** ENG 21011 and COMM 15000 and BUS 10123; and special approval.

**Corequisite:** BUS 30061.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**ENG 30062 PRINCIPLES OF TECHNICAL WRITING 3 Credit Hours**

Introduces theoretical principles of technical communication. Extensive practice in the use, evaluation and production of complex technical documents including research reports/research proposals. Emphasis on oral, written and electronic communication.

**Prerequisite:** Minimum C- grade in ENG 21011 or HONR 10297.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ENG 30063 PROFESSIONAL WRITING 3 Credit Hours**

Practice norms and strategies of effective workplace communication.

**Prerequisite:** Minimum C- grade in ENG 21011 or HONR 10297; and junior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** TAG Business

**ENG 30064 ARGUMENTATIVE PROSE WRITING 3 Credit Hours**

Practice in writing argumentative essays, with emphasis on discussion of student work.

**Prerequisite:** Minimum C- grade in ENG 21011 or HONR 10297.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ENG 30065 EXPOSITORY PROSE WRITING 3 Credit Hours**

Practice in prose composition with emphasis on exposition and discussion of student work.

**Prerequisite:** ENG 21011 or HONR 10297.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ENG 30066 WRITING IN THE PUBLIC SPHERE (ELR) 3 Credit Hours**

Writing course focusing on a multimodal service-learning project collaborating with peer and community partners in an online, hybrid or face-to-face delivery system.

**Prerequisite:** Minimum C- grade in ENG 21011 or HONR 10297.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Experiential Learning Requirement

**ENG 30067 FICTION WRITING I 3 Credit Hours**

Instruction and practice in writing fiction with specific models and discussions of student work on a weekly basis.

**Prerequisite:** ENG 20021.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ENG 30068 FICTION WRITING II 3 Credit Hours**

Continued instruction and practice in writing of fiction with specific models and discussion of student work on a weekly basis.

**Prerequisite:** ENG 30067.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ENG 30069 POETRY WRITING I 3 Credit Hours**

Instruction in and practice of writing poetry with specific models and discussion of student work on a weekly basis.

**Prerequisite:** ENG 20021.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ENG 30070 POETRY WRITING II 3 Credit Hours**

Continued practice in writing of poetry with specific models and discussion of student work on a weekly basis.

**Prerequisite:** ENG 30069.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ENG 30071 CREATIVE NONFICTION 3 Credit Hours**

Instruction and practice in writing creative nonfiction with specific models and discussions of student work on a weekly basis.

**Prerequisite:** Minimum C grade in ENG 21011 or HONR 10297.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ENG 30072 EDITING AND PUBLISHING I 3 Credit Hours**

Provides students with an overview of the editing and publishing industry. Provides practice, instruction, and feedback on document editing and book production and publishing.

**Prerequisite:** ENG 21011 or HONR 10297.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ENG 30073 EDITING AND PUBLISHING II 3 Credit Hours**

Builds on the skills acquired in ENG 30072 through proofreading and copyediting exercises based on the Chicago Manual of Style. Emphasis on topics such as document design and production, fact-checking, working within social media, and editing work written by others.

**Prerequisite:** ENG 30072.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ENG 30074 GRAMMAR FOR EDITING 3 Credit Hours**

Course focuses on editing practices that require knowledge of the rules of grammar, usage, and stylistic conventions in a variety of professional fields.

**Prerequisite:** ENG 21011 or HONR 10297.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ENG 30095 JUNIOR SPECIAL TOPICS 3 Credit Hours**

(Repeatable for credit) An opportunity to focus on important issues in literature, writing, criticism or cultural studies.

**Prerequisite:** Junior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ENG 31001 FUNDAMENTAL ENGLISH GRAMMAR 3 Credit Hours**

Study of grammatical structures and matters of usage and style in edited U.S. English.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ENG 31002 HISTORY OF THE ENGLISH LANGUAGE 3 Credit Hours**

Study of the development of the English language from the Indo-European period to the present.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ENG 31003 LINGUISTICS 3 Credit Hours**

Survey of language study including linguistic tools of analysis such as phonetics, morphology and syntax, and selected topics in applied linguistics.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ENG 31004 LEXICOLOGY/LEXICOGRAPHY 3 Credit Hours**

In-depth study of the lexicon in language use and the reasons for its expansion and continuous change. Study of tools in lexicography and analysis of the role of lexicography in language education.

**Prerequisite:** ENG 31003.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ENG 31005 CHILD SECOND LANGUAGE ACQUISITION 3 Credit Hours**

Explores theory, research and teaching/learning applications of second language acquisition in children.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ENG 31006 WORLD ENGLISHES (DIVG) (WIC) 3 Credit Hours**

Explores English varieties in the context of world languages, examining language politics with a focus on first/second language education and literacy in an electronic age.

**Prerequisite:** ENG 21011 or HONR 10297.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Diversity Global, Writing Intensive Course

**ENG 31007 PEDAGOGY FOR TEACHING ENGLISH AS A SECOND LANGUAGE 3 Credit Hours**

Theoretical bases, approaches, techniques of second language pedagogy at the elementary and secondary levels. Inquiry into English as a Second Language methods, materials and lesson planning.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ENG 31008 GRAMMAR FOR TEACHING ENGLISH AS A SECOND/ FOREIGN LANGUAGE 3 Credit Hours**

Introduces students to grammars of spoken and written English and pedagogical grammar. Topics include parts of speech, tense and aspect, clause and phrase types, grammar in genre and pedagogical applications relevant to the English as a second/foreign language profession.

**Prerequisite:** ENG 31001.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ENG 31009 ADULT SECOND LANGUAGE ACQUISITION 3 Credit Hours**

Explores theory, research, teaching, and learning applications of second language acquisition in adult populations.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ENG 31012 GENDER AND LANGUAGE 3 Credit Hours**

This course applies linguistic concepts to examine gendered language in written and oral discourse, focusing on the definition of gender and how we experience it in our lives.

**Prerequisite:** ENG 21011 or HONR 10297.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ENG 31095 SPECIAL TOPICS IN LINGUISTICS 3 Credit Hours**

(Repeatable for credit) Study of specific topics in linguistics such as sociolinguistics, phonetics and phonology or bi- and multi-lingualism.

**Prerequisite:** ENG 21011 or HONR 10297.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ENG 32001 CHILDREN'S LITERATURE 3 Credit Hours**

Survey of children's literature from Mother Goose rhymes and picture books through modern realistic fiction.

**Prerequisite:** ACT English score of 26 or higher; or SAT Evidence based Reading and Writing score of 600 or higher; or ENG 11002, ENG 11011, or HONR 10197.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ENG 32002 LITERATURE FOR YOUNG ADULTS 3 Credit Hours**

Study of literature appropriate to young adults.

**Prerequisite:** ACT English score of 26 or higher; or SAT Evidence based Reading and Writing score of 600 or higher; or ENG 11002, ENG 11011, or HONR 10197.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ENG 33001 U.S. LITERATURE TO 1865 3 Credit Hours**

U.S. literary themes, genres and authors studied in their historical and cultural contexts. Selections from the Colonial period through the Civil War.

**Prerequisite:** ENG 21011 or HONR 10297.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ENG 33002 U.S. LITERATURE FROM 1865 TO 1945 3 Credit Hours**

U.S. literary themes, genres and authors studied in their historical and cultural contexts. Selections from the close of the Civil War through World War II.

**Prerequisite:** ENG 21011 or HONR 10297.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ENG 33003 U.S. LITERATURE FROM 1945 TO PRESENT 3 Credit Hours**

U.S. literary themes, genres and authors studied in their historical and cultural contexts. Selections from the close of World War II to the present.

**Prerequisite:** ENG 21011 or HONR 10297.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ENG 33010 AFRICAN-AMERICAN LITERATURE TO 1900 3 Credit Hours**

(Cross-listed with PAS 32001) Study of African-American literature from its beginning to 1900, including such writers as Wheatley, J. Hammon, Terry, B. Hammon, Jones, Marrant, Allen, Hall, Walker, Truth, Garnet, Douglass, Delany, Harper, Stewart, Turner, Jacobs, Keckley, Brown, Wilson, Griggs, Chesnutt and Dunbar.

**Prerequisite:** ENG 21011 or HONR 10297.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ENG 33012 MODERN AFRICAN-AMERICAN LITERATURE 3 Credit Hours**

(Cross-listed with PAS 32002) Study of African-American literature from the early twentieth century to the present. The authors include Toomer, Hughes, Larsen, Wright, Baldwin, Hansberry, Jones, Lorde, Walker, Morrison, Mosley, Youngblood and Carter.

**Prerequisite:** ENG 21011 or HONR 10297.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ENG 33013 PAN-AFRICAN WOMEN'S LITERATURE (DIVG) 3 Credit Hours**

(Cross-listed with PAS 37100) Introduces students to literary works by African and Caribbean women.

**Prerequisite:** ENG 11011.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Diversity Global

**ENG 33014 AFRICAN-AMERICAN WOMEN'S LITERATURE 3 Credit Hours**

(Cross-listed with PAS 37200) Introduces students to literary works by African-American women.

**Prerequisite:** ENG 11011.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ENG 33015 AFRICAN LITERATURES (DIVG) 3 Credit Hours**

(Cross-listed with PAS 32050) Examines works of major 20th-century African, African American and Caribbean writers and intellectuals.

Authors include Niane, Achebe, Emecheta, Prince, Hurston, Hughes, Cesaire, Senghor, Soyinka and many others.

**Prerequisite:** ENG 11011 or HONR 10197.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Diversity Global

**ENG 34001 MEDIEVAL LITERATURE 3 Credit Hours**

Medieval literary themes, genres, and authors studied in their historical and cultural contexts. Selections from Anglo-Saxon and Middle English literature.

**Prerequisite:** ENG 21011 or HONR 10297.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ENG 34002 BRITISH LITERATURE, 1500-1660 3 Credit Hours**

British literary themes, genres and authors studied in their historical and cultural contexts. Selections from Renaissance and Reformation literature through the English Civil War.

**Prerequisite:** ENG 21011 or HONR 10297.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ENG 34003 BRITISH LITERATURE, 1660-1800 3 Credit Hours**  
British literary themes, genres and authors studied in their historical and cultural contexts. Selections from Restoration, Augustan and early Romantic literature.

**Prerequisite:** ENG 21011 or HONR 10297.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ENG 34004 BRITISH LITERATURE, 1800-1900 3 Credit Hours**  
British literary themes, genres and authors studied in their historical and cultural contexts. Selections from Romantic and Victorian literature.

**Prerequisite:** ENG 21011 or HONR 10297.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ENG 34005 BRITISH AND IRISH LITERATURE, 1900-PRESENT 3 Credit Hours**

British and Irish literary themes, genres and authors studied in their historical and cultural contexts. Selections from modern and post modern literature.

**Prerequisite:** ENG 21011 or HONR 10297.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ENG 34011 WORLD LITERATURE IN ENGLISH (DIVG) 3 Credit Hours**

An examination of selected writings in English by postcolonial authors from Africa, Asia, the Caribbean and other parts of the world.

**Prerequisite:** ENG 21011 or HONR 10297.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Diversity Global

**ENG 34021 WOMEN'S LITERATURE (DIVD) 3 Credit Hours**

Critical and theoretical consideration of gender issues concerning British and U.S. women writers studied in their historical and cultural contexts.

**Prerequisite:** ENG 21011 or HONR 10297.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Diversity Domestic

**ENG 34031 SHORT STORY 3 Credit Hours**

Critical analysis of short stories written by important world authors. Selections include stories originally written in English and stories translated into English.

**Prerequisite:** ENG 21011 or HONR 10297.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ENG 34041 FAIRY TALES 3 Credit Hours**

Study of classic fairy tales by Perrault, Grimms, Andersen and others as fundamental texts of Western culture worthy of literary criticism.

**Prerequisite:** ENG 21011 or HONR 10297.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ENG 34055 SHAKESPEARE 3 Credit Hours**

Study of plays representing Shakespeare's entire career, including Henry IV parts I and II, The Merchant of Venice, Measure for Measure, Hamlet, Othello and The Tempest.

**Prerequisite:** ENG 21011 or HONR 10297.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ENG 34065 CHAUCER 3 Credit Hours**

Close study of Chaucer's Canterbury Tales, with some attention to courtly poems and/or selected lyrics.

**Prerequisite:** ENG 21011 or HONR 10297.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ENG 34090 SHAKESPEARE IN PERFORMANCE 3 Credit Hours**

Course is designed around a field-trip to the American Shakespeare Center in Staunton, Va., during which students attend performances of plays and participate in workshops. Students also attend at least one performance of an early modern play staged in Northeastern Ohio. Students formally study all the plays before attending performances of them.

**Prerequisite:** ENG 21011 or HONR 10297.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ENG 34095 SPECIAL TOPICS:MAJOR AUTHOR STUDIES 3 Credit Hours**

(Repeatable for credit when topics varies) Intensive study of one or more authors from the English-speaking world.

**Prerequisite:** ENG 21011 or HONR 10297.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ENG 35101 LITERATURE AND OTHER DISCIPLINES 3 Credit Hours**

Study of literature in relation to, or from the standpoint of, another discipline such as psychoanalysis, psychology, religion, theology, music and painting.

**Prerequisite:** ENG 21011 or HONR 10297.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ENG 35201 THE BIBLE AS LITERATURE 3 Credit Hours**

Study of Bible as a great book subject to literary criticism and as a main document of Western culture. Old and New Testaments read.

**Prerequisite:** ENG 21011 or HONR 10297.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ENG 35301 LESBIAN, GAY, BISEXUAL AND TRANSGENDER: CRITICAL PERSPECTIVES (DIVD) 3 Credit Hours**

Study of theory, language and other aspects of lesbian, gay, bisexual and transgendered literature and culture.

**Prerequisite:** ENG 21011 or HONR 10297.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Diversity Domestic

**ENG 35401 SCIENCE FICTION 3 Credit Hours**

Study of the origins, history, themes and major works of science fiction drawn from a variety of national literatures, as well as the adaptation of literary works into film, television, graphic novels, video games, and other forms.

**Prerequisite:** ENG 21011 or HONR 10297.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ENG 36001 APPLIED LITERARY CRITICISM 3 Credit Hours**

Advanced, reading-intensive course in the reading and interpretation of literary scholarship, with emphasis on published scholarly analysis. Primary and secondary texts vary, depending on the specialization of the instructor.

**Prerequisite:** ENG 21011 or HONR 10297; and junior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ENG 37001 CLASSICAL RHETORIC 3 Credit Hours**

Ancient approaches to rhetoric studied in their historical and cultural contexts. Selections from Greek and Roman thinkers such as the Sophists, Plato, Aristotle, Cicero and Quintilian.

**Prerequisite:** ENG 21011 or HONR 10297.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ENG 37101 CRITICAL RHETORICAL STUDIES OF TEXTS IN CONTEXT 3 Credit Hours**

Students learn critical analytical methods and apply them to written texts, examining the rhetorical function of their linguistic elements and their relationship to rhetorical contexts.

**Prerequisite:** ENG 21011 or HONR 10297.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ENG 38001 CRITICAL THEORY AND READING 3 Credit Hours**

Introduction to major interpretive paradigms in literary studies, from American New Criticism to the present, with emphasis on strategies for analyzing poetry, drama and narrative fiction.

**Prerequisite:** ENG 21011 or HONR 10297; and ENG 24001.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ENG 38002 RHETORIC AND WRITING STUDIES 3 Credit Hours**

Introduction to theories and scholarship that have shaped the disciplinary study of rhetoric and writing, including key figures and concepts from classical and modern rhetoric that continue to influence contemporary writing scholarship and pedagogy.

**Prerequisite:** ENG 21011 or HONR 10297; and ENG 24001.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ENG 38895 SPECIAL TOPICS IN WRITING 3 Credit Hours**

(Repeatable for credit) Topics vary with an emphasis on writing may. Topics include editing, publishing and grammar.

**Prerequisite:** ENG 21011 or HONR 10297.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ENG 39095 SPECIAL TOPICS IN LITERARY HISTORY 3 Credit Hours**

(Repeatable for credit) Topics vary in the study of selected literary histories such as the travel narrative, the fairy tale, the detective story and postcolonial literature.

**Prerequisite:** ENG 21011 or HONR 10297.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ENG 39195 SPECIAL TOPICS IN DRAMA 3 Credit Hours**

(Repeatable for credit) Study of selected topics, themes, or periods in drama such as gender construction, obsession or medieval drama.

**Prerequisite:** ENG 21011 or HONR 10297.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ENG 39295 SPECIAL TOPICS IN POETRY 3 Credit Hours**

(Repeatable for credit) Study of selected topics in poetry such as poetic form, historical and cultural contexts and artistic movements.

**Prerequisite:** ENG 21011 or HONR 10297.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ENG 39395 SPECIAL TOPICS IN FICTION 3 Credit Hours**

(Repeatable for credit) Study of selected topics in fiction such as the autobiographical novel, the novella and the short story.

**Prerequisite:** ENG 21011 or HONR 10297.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ENG 39495 SPECIAL TOPICS IN COMPARATIVE LITERATURE 3 Credit Hours**

(Repeatable for credit) Study of selected topics in comparative literature such as movements and genres in world literature and the interrelationships of the arts.

**Prerequisite:** ENG 21011 or HONR 10297.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ENG 39595 SPECIAL TOPICS IN LITERARY CRITICISM 3 Credit Hours**

(Repeatable for credit) Study of selected topics in literary criticism such as reader response criticism, psychoanalytic methodologies or Marxist approaches.

**Prerequisite:** ENG 21011 or HONR 10297.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ENG 39695 SPECIAL TOPICS IN ETHNIC LITERATURE OF THE UNITED STATES 3 Credit Hours**

(Repeatable for credit) Study of selected topics in ethnic literature such as the literature of one ethnic group, race and ethnicity in U.S. culture.

**Prerequisite:** ENG 21011 or HONR 10297.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter



**ENG 39795 SPECIAL TOPICS IN WOMEN'S LITERATURE 3 Credit Hours**

(Repeatable for credit) Study of selected topics in women's literature organized around literary, historical and theoretical issues.

**Prerequisite:** ENG 21011 or HONR 10297.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ENG 39895 SPECIAL TOPICS IN RHETORIC, COMPOSITION AND WRITING 3 Credit Hours**

(Repeatable for credit) Study of selected topics in rhetoric, composition and writing such as historical and contemporary studies of political and professional discourse.

**Prerequisite:** ENG 21011 or HONR 10297.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ENG 39995 SPECIAL TOPICS CULTURAL STUDIES 3 Credit Hours**

(Repeatable for credit) Study of selected topics in cultural studies organized around a particular mode or methodology of cultural analysis.

**Prerequisite:** ENG 21011 or HONR 10297.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ENG 40099 WRITING PORTFOLIO (ELR) 2 Credit Hours**

Directed practice in constructing a portfolio of original writing, which may be creative, expository, technical, or preprofessional in nature.

**Prerequisite:** Creative Writing minor or Professional and Technical Writing minor; and junior standing.

**Schedule Type:** Senior Project/Honors Thesis

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter-IP

**Attributes:** Experiential Learning Requirement

**ENG 41001 SOCIOLINGUISTICS IN SCHOOLING (DIVD) (WIC) 3 Credit Hours**

Examines the interactions between society and language. Explores pedagogical implications of language variation.

**Prerequisite:** ENG 21011 or HONR 10297.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Diversity Domestic, Writing Intensive Course

**ENG 41003 LANGUAGE CURRICULUM, MATERIALS AND ASSESSMENT 3 Credit Hours**

Advanced inquiry into English as a Second Language teaching methods, curriculum design, and materials selection, use and design. Assessment of learners in a student-centered ESL or language curriculum.

**Prerequisite:** ENG 31007.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ENG 41009 STUDENT TEACHING (ELR) 9 Credit Hours**

(Slashed with ENG 51009) Full-time student teaching over 13 weeks in English as a Second Language in grades P-12. Background check by the Bureau of Criminal Investigation and Identification (BCII) and Federal Bureau of Investigation (FBI) required to be presented to authorized personnel at the assigned school-agency before the first day of student teaching. To be enrolled in the course, students must have official valid certification of child safety training, approved basic life support and ALICE training presented to the campus office of clinical experience.

**Prerequisite:** CULT 29535 and EPSY 29525 and ETEC 39525; and eligibility for student teaching and special approval.

**Corequisite:** ENG 41525.

**Schedule Type:** Practical Experience

**Contact Hours:** 27.733 other

**Grade Mode:** Satisfactory/Unsatisfactory

**Attributes:** Experiential Learning Requirement

**ENG 41092 ESL PRACTICUM IN INTENSIVE ENGLISH PROGRAMS (ELR) 3 Credit Hours**

(Repeatable for credit) Provides opportunities for students to observe, assist, and or teach English as a second language in the ESL Center, including 70 fieldwork hours. Participating ESL Center classes are held Monday through Friday.

**Pre/corequisite:** ENG 31007.

**Schedule Type:** Lecture, Practical Experience

**Contact Hours:** 2 lecture, 5 other

**Grade Mode:** Standard Letter

**Attributes:** Experiential Learning Requirement

**ENG 41093 VARIABLE TITLE WORKSHOP IN ENGLISH 1-6 Credit Hours**

(Repeatable for credit) An opportunity to focus on concerns of the discipline and on new developments in writing, criticism, literature and career opportunities.

**Prerequisite:** Junior standing.

**Schedule Type:** Workshop

**Contact Hours:** 1-6 other

**Grade Mode:** Satisfactory/Unsatisfactory

**ENG 41094 COLLEGE TEACHING ASSISTANT (ELR) 1-3 Credit Hours**

(Repeatable for maximum 6 credit hours) An opportunity to assist in the development and delivery of a college course in English. Expectations may include group and class leadership, selection of materials, development of classroom inquiry techniques, and multimedia support.

**Prerequisite:** Senior standing; and special approval.

**Schedule Type:** Field Experience, Practical Experience

**Contact Hours:** 1-3 other

**Grade Mode:** Standard Letter

**Attributes:** Experiential Learning Requirement

**ENG 41096 INDIVIDUAL INVESTIGATION 1-3 Credit Hours**

(Repeatable for credit) Open to advanced undergraduate students in English or TESL. Only 3 hours of individual investigation count toward the English major.

**Prerequisite:** Junior standing; and special approval of instructor and department.

**Schedule Type:** Individual Investigation

**Contact Hours:** 1-3 other

**Grade Mode:** Standard Letter-IP

**ENG 41098 GUIDED RESEARCH IN ENGLISH (ELR) 1-3 Credit Hours**  
(Repeatable for a maximum of 6 credit hours) Independent student research with faculty guidance.

**Prerequisite:** Junior standing; and special approval.

**Schedule Type:** Research

**Contact Hours:** 1-3 other

**Grade Mode:** Standard Letter

**Attributes:** Experiential Learning Requirement

**ENG 41192 ESL PRACTICUM IN A P-12 SETTING (ELR) 3 Credit Hours**

(Repeatable for credit) Provides students seeking educational licensure opportunities to observe, assist, and or teach English as a second language in P-12 schools, including 70 field-clinical hours. Students must complete the Bureau of Criminal Investigation and Identification (BCII) and Federal Bureau of Investigation (FBI) background checks and submit results to authorized personnel at the assigned school-agency before the first day of Practicum.

**Prerequisite:** ENG 31005.

**Pre/corequisite:** ENG 31007.

**Schedule Type:** Lecture, Practical Experience

**Contact Hours:** 2 lecture, 5 other

**Grade Mode:** Standard Letter

**Attributes:** Experiential Learning Requirement

**ENG 41194 TUTORING OF WRITING 3 Credit Hours**

Provides training and professional development for writing center tutors. Course covers writing center theory and practice, the history writing centers, composition pedagogy, writing across the curriculum, tutoring ESL students, assessing writing center services, and the development of outreach programming.

**Prerequisite:** Minimum C grade in ENG 21011 or HONR 10297.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ENG 41198 RESEARCH ASSISTANT IN ENGLISH (ELR) 1-3 Credit Hours**

(Repeatable for a maximum of 6 credit hours) An opportunity to assist a faculty member on faculty initiated research in criticism and literary analysis, rhetoric and composition, or applied language acquisition and teaching.

**Prerequisite:** Junior standing; and special approval.

**Schedule Type:** Research

**Contact Hours:** 1-3 other

**Grade Mode:** Standard Letter

**Attributes:** Experiential Learning Requirement

**ENG 41292 TEACHING ENGLISH AS A FOREIGN LANGUAGE PRACTICUM (ELR) 3,6 Credit Hours**

(Repeatable for a maximum of 12 credits) Students observe, participate and teach in a number of school contexts in Florence, Italy, from primary to secondary, community and higher education. Course gives students authentic practice teaching English in the foreign language context.

**Pre/corequisite:** ENG 31007.

**Schedule Type:** Practical Experience

**Contact Hours:** 5-10 other

**Grade Mode:** Standard Letter

**Attributes:** Experiential Learning Requirement

**ENG 41525 INQUIRY INTO PROFESSIONAL PRACTICE 3 Credit Hours**

Preparation for student teaching of English as a second language, grades K-12.

**Prerequisite:** CULT 29535 and EPSY 29525 and ETEC 39525.

**Corequisite:** ENG 41009.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ENG 42092 WRITING INTERNSHIP (ELR) 1-3 Credit Hours**

(Repeatable for a maximum of 6 credit hours) Guided internship in professional writing, editing, or publishing. Possible placements include the KSU Press, Institute for Bibliography and Editing, and WICK Poetry Center.

**Prerequisite:** Junior standing; and special approval.

**Schedule Type:** Field Experience, Practical Experience

**Contact Hours:** 1-3 other

**Grade Mode:** Satisfactory/Unsatisfactory

**Attributes:** Experiential Learning Requirement

**ENG 42192 SERVICE LEARNING IN ENGLISH STUDIES (ELR) 3 Credit Hours**

(Repeatable for maximum 6 credit hours) Provides guided opportunities for completing service learning related to English Studies. Service placements meet a community need and provide practice in such areas as writing, editing, publishing, teaching, and tutoring.

**Prerequisite:** Junior standing; and special approval.

**Schedule Type:** Field Experience, Practical Experience

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**Attributes:** Experiential Learning Requirement

**ENG 43092 TEACHING POETRY IN THE SCHOOLS (ELR) 3 Credit Hours**

(Repeatable for maximum 6 credit hours) Exploration of various approaches to teaching poetry writing, poetry appreciation, and poetry performance in school contexts. Study of creative writing as a means of developing literacy and promoting human growth.

**Prerequisite:** Sophomore standing; and special approval.

**Schedule Type:** Field Experience, Practical Experience

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**Attributes:** Experiential Learning Requirement

**ENG 49091 SENIOR SEMINAR (ELR) (WIC) 3 Credit Hours**

(Repeatable for credit) Intensive study of in English studies. Students complete a long writing project during the semester.

**Prerequisite:** ENG 38001 or ENG 38002; and English major.

**Schedule Type:** Seminar

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**Attributes:** Experiential Learning Requirement, Writing Intensive Course

**ENG 49095 SENIOR SPECIAL TOPICS 3 Credit Hours**

(Repeatable for credit) Intensive study of topics that will vary each semester.

**Prerequisite:** Senior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ENG 51009 STUDENT TEACHING 9 Credit Hours**

(Slashed with ENG 41009) Full-time student teaching over 13 weeks in English as a Second Language in grades P-12. Background check by the Bureau of Criminal Investigation and Identification (BCII) and Federal Bureau of Investigation (FBI) required to be presented to authorized personnel at the assigned school-agency before the first day of student teaching. To be enrolled in the course, students must have official valid certification of child safety training, approved basic life support and ALICE training presented to the campus office of clinical experience.

**Prerequisite:** Eligibility for student teaching; graduate standing; and special approval.

**Schedule Type:** Practical Experience

**Contact Hours:** 27.733 other

**Grade Mode:** Satisfactory/Unsatisfactory

**ENG 61000 INTRODUCTION TO RESEARCH AND PEDAGOGY IN CRITICAL READING 3 Credit Hours**

Introduction to contemporary methods of literary and cultural criticism and to the profession of teaching English in college.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ENG 61094 INTRODUCTION TO RESEARCH IN THE TEACHING OF COLLEGE WRITING 3 Credit Hours**

(Repeatable for credit) Using the Kent program as an example, the focus will be on teaching composition, literature and language along with the needed planning and evaluation.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ENG 62291 SEMINAR: BRITISH LITERATURE 1800 TO PRESENT 3 Credit Hours**

(Repeatable for credit) (Slashed with ENG 72291) In-depth treatment of various topics from the Romantic and Victorian periods and the 20th century.

**Prerequisite:** Graduate standing.

**Schedule Type:** Seminar

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**ENG 63001 METHODOLOGY OF TEACHING ENGLISH AS A SECOND LANGUAGE 3 Credit Hours**

(Slashed with ENG 73001) The theory and methodology of teaching English as a second language.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ENG 63033 THEORIES IN SECOND LANGUAGE ACQUISITION 3 Credit Hours**

(Cross-listed with MCLS 60661) (Slashed with ENG 73033) This course surveys the major theoretical approaches to language acquisition, concentrating on second language acquisition and the relationship between acquisition/learning research and second language teaching approaches.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ENG 63034 LITERATE PRACTICES AND SOCIOLINGUISTICS 3 Credit Hours**

(Slashed with ENG 73034) Discussion of sociolinguistic approaches to understanding literacy, language in workplaces and classrooms and societal multilingualism. Survey of trends in sociolinguistic thought and method.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ENG 63038 TEACHING LITERATURE AND CULTURE 3 Credit Hours**

(Cross-listed with MCLS 60622) Students will explore theories of literature and culture teaching as well as strategies for teaching literature and culture.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ENG 63039 SECOND LANGUAGE CURRICULUM AND TESTING 3 Credit Hours**

(Cross-listed with MCLS 60663) Students will study second language curriculum and testing design and current issues, including oral proficiency testing.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ENG 63040 LINGUISTICS FOR THE LANGUAGE PROFESSIONS 3 Credit Hours**

(Cross-listed with MCLS 60601) Students will be introduced to basic linguistic issues and how these relate to the language professions.

Course focuses on functional principles, especially on options to express textual, interpersonal and ideational/experiential meaning.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ENG 63041 DESCRIPTIVE GRAMMAR OF ENGLISH 3 Credit Hours**

This course provides a description of English syntax and morphology. Presentation of material will be through rules and exposure to grammatical forms in meaningful contexts.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ENG 63043 SECOND LANGUAGE WRITING 3 Credit Hours**

(Cross-listed with MCLS 60665) Theory and practice in teaching second language writing. Topics will include current and historic approaches to second language writing, approaches to tutoring international students in writing centers, teacher and peer response, error correction, and technology in second language writing instruction.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ENG 63044 SECOND LANGUAGE READING 3 Credit Hours**

(Cross-listed with MCLS 60664) Addresses a wide variety of topics related to second language reading, including theoretical perspectives, the process of learning to read, models of how reading happens, comprehension, fluency, discourse structures, strategy use, and vocabulary acquisition. Teaching issues related to second language reading will also be addressed directly, namely assessment and curriculum building.

**Prerequisite:** Graduate standing.

**Schedule Type:** Seminar

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ENG 63045 ENGLISH FOR SPECIFIC PURPOSES 3 Credit Hours**

Examination of academic, workplace, and vocational language in the design of second language instructional materials and curriculum. Discourse domains from medical to agricultural to business are analyzed through applied linguistic tools. Curriculum and instructional materials are studied and designed.

**Prerequisite:** Graduate standing.

**Schedule Type:** Seminar

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**ENG 63046 SECOND LANGUAGE LISTENING AND SPEAKING 3 Credit Hours**

Theory and practice in second language listening and speaking. Topics will include current approaches to second language speech perception and production, issues in teaching and assessing second language listening and speaking, and phonetic, phonological, and acoustic analyses for language teachers.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ENG 63047 HERITAGE LANGUAGES AND SECOND LANGUAGE LEARNING 3 Credit Hours**

(Cross-listed with MCLS 60624) Theory and practice in language education of heritage language speakers. Ethnic, minority, ancestral, and community languages and language practices will be explored with implications for second and additional language learning in English, foreign language, bilingual education.

**Prerequisite:** Graduate standing.

**Schedule Type:** Seminar

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ENG 63098 SECOND LANGUAGE RESEARCH METHODS 3 Credit Hours**

(Cross-listed with MCLS 60698) Students learn how second language research influences their teaching practices by studying research texts and recent journal articles and conducting a research project.

**Prerequisite:** Graduate standing.

**Schedule Type:** Research

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**ENG 63391 SEMINAR: LINGUISTICS 3 Credit Hours**

(Repeatable for credit) (Cross-listed with ENG 73391) In-depth treatment of various topics from modern linguistics, including phonology, morphology and various generative grammars.

**Prerequisite:** Graduate standing.

**Schedule Type:** Seminar

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**ENG 64070 WRITING POETRY 3 Credit Hours**

(Cross-listed with ENG 74070) Advanced workshop in creative writing.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ENG 64071 WRITING FICTION 3 Credit Hours**

(Slashed with ENG 74071) Advanced workshop in the writing of fiction.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ENG 65012 READING AND INTERPRETING RESEARCH ON WRITING 3 Credit Hours**

(Slashed with ENG 75012) Course focuses on how to read critically and interpret published research by examining the principle means through which 'knowledge' is constructed in writing research.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ENG 65022 RHETORICAL THEORY:GREEK AND ROMAN 3 Credit Hours**

(Slashed with ENG 75022) Course examines classical Greek and Roman rhetorical traditions and, to a lesser extent, their reappearance in contemporary rhetorical theories and composition pedagogies.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ENG 65023 RHETORICAL THEORY:18TH, 19TH AND 20TH CENTURIES 3 Credit Hours**

(Slashed with ENG 75023) Course surveys 18th-, 19th- and 20th-century developments in rhetorical theory and their influences on contemporary pedagogical and theoretical practices.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ENG 65027 ROLE OF COMPOSITION 3 Credit Hours**

(Slashed with ENG 75027) (Repeatable for maximum 6 credit hours) Study of composition's contributions to writing studies such as writing pedagogy/theory, writing technologies, assessment, process research, WAC, program administration, rhetoric and cultural studies.

**Prerequisite:** Graduate standing.

**Schedule Type:** Seminar

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter



**ENG 65035 LINGUISTICS FOR RHETORICIANS 3 Credit Hours**  
(Slashed with ENG 75035) (Repeatable for maximum 6 credit hours)  
Provides an introduction to linguistic theories, concepts and tools relevant to the teaching and researching of various dimensions of written texts.  
**Prerequisite:** Graduate standing.  
**Schedule Type:** Seminar  
**Contact Hours:** 3 other  
**Grade Mode:** Standard Letter

**ENG 65044 RESEARCH DESIGN 3 Credit Hours**  
(Slashed with ENG 75044) (Repeatable for maximum 6 credit hours)  
Introduces students to a range of research methodologies through theoretical scholarship and guided practice, culminating in a pilot research project.  
**Prerequisite:** Graduate standing.  
**Schedule Type:** Seminar  
**Contact Hours:** 3 other  
**Grade Mode:** Standard Letter

**ENG 65051 LITERACY:FUNCTIONS, PRACTICES AND HISTORY 3 Credit Hours**  
(Slashed with ENG 75051) Introduces students to a range of research methodologies through theoretical scholarship and guided practice, culminating in a pilot research project. Course surveys and critically evaluates historical and contemporary studies of literacy in terms of three dominant metaphors ('adaptation,' 'power,' 'grace') those studies employ.  
**Prerequisite:** Graduate standing.  
**Schedule Type:** Lecture  
**Contact Hours:** 3 lecture  
**Grade Mode:** Standard Letter

**ENG 65052 WRITING ACTIVITY AS SOCIAL PRACTICE 3 Credit Hours**  
(Slashed with ENG 75052) Through Vygotskian-based activity theory and contemporary theories of practice, course explores the rhetorical bases and implications of studying literacy and writing as embedded activity.  
**Prerequisite:** Graduate standing.  
**Schedule Type:** Lecture  
**Contact Hours:** 3 lecture  
**Grade Mode:** Standard Letter

**ENG 65053 WRITING TECHNOLOGIES 3 Credit Hours**  
(Slashed with ENG 75053) Course critically examines theoretical and pedagogical claims concerning writing technologies and begins identifying the conceptual components of a grounded theory for technology-enhanced literacy learning.  
**Prerequisite:** Graduate standing.  
**Schedule Type:** Lecture  
**Contact Hours:** 3 lecture  
**Grade Mode:** Standard Letter

**ENG 66002 BRITISH AND IRISH LITERATURE FROM THE EARLY ROMANTICS ONWARD 3 Credit Hours**  
(Slashed with ENG 76002) Broad, synchronic study of the literature identified with a single period in literary history embracing various genres and relating the literature to other cultural phenomena of the time.  
**Prerequisite:** Graduate standing.  
**Schedule Type:** Lecture  
**Contact Hours:** 3 lecture  
**Grade Mode:** Standard Letter

**ENG 66051 SHAKESPEARE 3 Credit Hours**  
(Slashed with ENG 76051) Close reading of selected plays and poems by Shakespeare with some emphasis on critical and interpretative problems.  
**Prerequisite:** Graduate standing.  
**Schedule Type:** Lecture  
**Contact Hours:** 3 lecture  
**Grade Mode:** Standard Letter

**ENG 66101 LITERATURE OF THE UNITED STATES THROUGH THE CIVIL WAR 3 Credit Hours**  
(Slashed with ENG 76101) Broad, synchronic study of U.S. literature identified with a single period in literary history embracing various genres and relating the literature to other cultural phenomena of the time.  
**Prerequisite:** Graduate standing.  
**Schedule Type:** Lecture  
**Contact Hours:** 3 lecture  
**Grade Mode:** Standard Letter

**ENG 66103 ETHNIC LITERATURE OF THE UNITED STATES 3 Credit Hours**  
(Slashed with ENG 76103) An examination of selected fiction and theory by ethnic American authors, or of literary representations of special topics relating to ethnic and racial identity.  
**Prerequisite:** Graduate standing.  
**Schedule Type:** Lecture  
**Contact Hours:** 3 lecture  
**Grade Mode:** Standard Letter

**ENG 66104 AFRICAN-AMERICAN LITERATURE 3 Credit Hours**  
(Slashed with ENG 76104) An examination of selected African-American fiction and theory, or of a special topic relating to literary representations of African-American culture identity or history.  
**Prerequisite:** Graduate standing.  
**Schedule Type:** Lecture  
**Contact Hours:** 3 lecture  
**Grade Mode:** Standard Letter

**ENG 66302 POST-COLONIAL LITERATURE IN ENGLISH 3 Credit Hours**  
(Slashed with ENG 76302) An examination of selected fiction and theory in English by post-colonial authors from India, Africa, South Africa, the Caribbean and elsewhere.  
**Prerequisite:** Graduate standing.  
**Schedule Type:** Lecture  
**Contact Hours:** 3 lecture  
**Grade Mode:** Standard Letter

**ENG 66401 LITERARY MOVEMENTS 3 Credit Hours**  
(Slashed with ENG 76401) An examination of one particular movement in literary history via its writers, artists benefactors, thinkers, political demagogues and critics.  
**Prerequisite:** Graduate standing.  
**Schedule Type:** Lecture  
**Contact Hours:** 3 lecture  
**Grade Mode:** Standard Letter

**ENG 66501 NARRATIVE LITERATURE 3 Credit Hours**  
(Slashed with ENG 76501) Close readings of selected novels, short stories biographies autobiographies life writing journals and other forms of narrative and verse by British American and other writers in English from one or more periods in literary history.  
**Prerequisite:** Graduate standing.  
**Schedule Type:** Lecture  
**Contact Hours:** 3 lecture  
**Grade Mode:** Standard Letter



**ENG 66502 DRAMATIC LITERATURE 3 Credit Hours**

(Slashed with ENG 76502) Close reading of selected plays and other dramatic forms by writers of Britain, Ireland and the United States from one or more periods in literary history.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ENG 66592 PRACTICUM IN TUTORING WRITING 1 Credit Hour**

(Repeatable for credit) Practical training and experience in tutoring composition.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture, Practical Experience

**Contact Hours:** 1 lecture

**Grade Mode:** Standard Letter

**ENG 66595 SPECIAL TOPICS:AUTHORS AND AUTHORSHIP 3 Credit Hours**

(Repeatable for credit) (Slashed with ENG 76595) Research-based study of problems in the theory or practice of authorship. Typical courses include 'The Creative Process,' 'Authors and Printers,' 'Faulkner in Hollywood'.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ENG 66706 METHODS IN THE STUDY OF LITERATURE 3 Credit Hours**

(Slashed with ENG 76706) Analytical reading and interpretation of published research and criticism, its assumptions, trends, controversies; course will identify and contextualize present opportunities for research in field. Required for Ph.D.s specializing in Division II.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ENG 66791 SEMINAR:BRITISH AND IRISH LITERATURE 3 Credit Hours**

(Repeatable for credit) (Slashed with ENG 76791) In-depth treatment of various topics from Old English literature, Beowulf, Middle English literature and Chaucer.

**Prerequisite:** Graduate standing.

**Schedule Type:** Seminar

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**ENG 66891 SEMINAR:LITERATURE OF THE UNITED STATES 3 Credit Hours**

(Repeatable for credit) (Slashed with ENG 76891) This course will examine the construction of American identities. Writers typically discussed are Howells, Dreiser, Cahan, Anderson, Fitzgerald, Dos Passos, Wright, Baldwin, Bellow, Ikada, Jen and others. Content varies.

**Prerequisite:** Graduate standing.

**Schedule Type:** Seminar

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**ENG 66895 SPECIAL TOPICS 3 Credit Hours**

(Repeatable for credit) (Slashed with ENG 76895) Study of selected special topics in literature.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ENG 66991 SEMINAR:GENRE 3 Credit Hours**

(Repeatable for credit) (Slashed with ENG 76991) In-depth examination of one or more kinds of texts focusing on how forms are defined historically and analytically, with special attention to current approaches.

**Prerequisite:** Graduate standing.

**Schedule Type:** Seminar

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**ENG 67101 FEMINIST THEORY AND CRITICISM 3 Credit Hours**

(Slashed with ENG 77101) Study of key issues and concepts in feminist theory and criticism, including the nature, causes and effects (political, social and psychological) of certain types of representation of women and discourse practices employed by women.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ENG 67104 SOCIAL AND CULTURAL THEORY AND CRITICISM 3 Credit Hours**

(Repeatable for credit) (Slashed with ENG 77104) Study of important issues and concepts in Marxist, new historicist, ethnic, post-colonialist and other modes of social/cultural theory and criticism.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ENG 67591 SEMINAR: THEORY AND CRITICISM 3 Credit Hours**

(Repeatable for credit when topic varies) (Slashed with ENG 77591) In-depth study of important topics in contemporary theory and criticism.

**Prerequisite:** Graduate standing.

**Schedule Type:** Seminar

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**ENG 67691 SEMINAR:SCHOLARLY EDITING 3 Credit Hours**

(Repeatable for credit when topic varies) (Slashed with ENG 77691) In-depth treatment of various topics from modern scholarly editing.

**Prerequisite:** Graduate standing.

**Schedule Type:** Seminar

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**ENG 68093 VARIABLE TITLE WORKSHOP IN ENGLISH 2-6 Credit Hours**

(Repeatable for a maximum 8 credit hours) (Slashed with ENG 78093) Designed to focus on concerns of the profession/discipline to bring secondary teachers up to date on new developments in the field. Maximum for degree credit is 4 hours.

**Prerequisite:** Graduate standing.

**Schedule Type:** Workshop

**Contact Hours:** 2-6 other

**Grade Mode:** Satisfactory/Unsatisfactory

**ENG 68096 INDIVIDUAL INVESTIGATION 1-3 Credit Hours**

(Repeatable for credit) (Slashed with ENG 78096) Intensive study of selected writer or special topic.

**Prerequisite:** Graduate standing.

**Schedule Type:** Individual Investigation

**Contact Hours:** 1-3 other

**Grade Mode:** Standard Letter-IP

**ENG 68098 RESEARCH 1-15 Credit Hours**

(Repeatable for credit) Research for master's level graduate students. Credits earned may be applied toward meeting degree requirements if the department approves.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Research

**Contact Hours:** 1-15 other

**Grade Mode:** Satisfactory/Unsatisfactory

**ENG 68392 PRACTICUM IN TEACHING COLLEGE ENGLISH 3 Credit Hours**

(Repeatable for credit) (Slashed with ENG 78392) Practical training and experience in teaching beginning composition courses.

**Prerequisite:** Graduate standing.

**Schedule Type:** Practical Experience

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**ENG 68492 PRACTICUM IN TEACHING INTERNATIONAL STUDENTS 3 Credit Hours**

(Repeatable for credit) Practical training and experience in teaching English to international students in a university intensive English program. Field placement in the ESL Center requires 70 field-clinical hours. Participating classes are Monday through Friday.

**Prerequisite:** Graduate standing.

**Pre/corequisite:** ENG 63001.

**Schedule Type:** Lecture, Practical Experience

**Contact Hours:** 3 lecture, 6 other

**Grade Mode:** Standard Letter

**ENG 68592 PRACTICUM IN TEACHING P-12 ENGLISH LANGUAGE LEARNERS 3 Credit Hours**

(Repeatable for credit) Practical training and experience in teaching English to speakers of other languages in P-12 schools including 100 field-clinical hours in an assigned P-12 school.

**Prerequisite:** Graduate standing in MA TESL Education Concentration.

**Pre/corequisite:** ENG 63001.

**Schedule Type:** Field Experience

**Contact Hours:** 2 lecture, 100 other

**Grade Mode:** Standard Letter

**ENG 69199 THESIS I 2-6 Credit Hours**

Thesis students must register for a total of 6 semester hours, 2 to 6 in a single semester distributed over several semesters if desired.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Masters Thesis

**Contact Hours:** 2-6 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**ENG 69299 THESIS II 2 Credit Hours**

Thesis students must continue registration each semester until all degree requirements are met.

**Prerequisite:** ENG 69199; and graduate standing.

**Schedule Type:** Masters Thesis

**Contact Hours:** 2 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**ENG 72291 SEMINAR:BRITISH LITERATURE 1800 TO PRESENT 3 Credit Hours**

(Repeatable for credit) (Slashed with ENG 62291) In-depth treatment of various topics from the Romantic and Victorian periods and the 20th century.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Seminar

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**ENG 73001 METHODOLOGY OF TEACHING ENGLISH AS A SECOND LANGUAGE 3 Credit Hours**

(Slashed with ENG 63001) The theory and methodology of teaching English as a second language.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ENG 73033 THEORIES IN SECOND LANGUAGE ACQUISITION 3 Credit Hours**

(Slashed with ENG 63033) (Cross-listed with MCLS 60661) This course surveys the major theoretical approaches to language acquisition concentrating on second language acquisition and the relationship between acquisition learning research and second language teaching approaches.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ENG 73034 LITERATE PRACTICES AND SOCIOLINGUISTICS 3 Credit Hours**

(Slashed with ENG 63034) Discussion of sociolinguistic approaches to understanding literacy, language in workplaces and classrooms and societal multilingualism. Survey of trends in sociolinguistic thought and method.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ENG 73391 SEMINAR:LINGUISTICS 3 Credit Hours**

(Repeatable for credit) (Slashed with ENG 63391) In-depth treatment of various topics from modern linguistics, including phonology, morphology and various generative grammars.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Seminar

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**ENG 74070 WRITING POETRY 3 Credit Hours**

(Slashed with ENG 64070) Advanced workshop in creative writing.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ENG 74071 WRITING FICTION 3 Credit Hours**

(Slashed with ENG 64071) Advanced workshop in the writing of fiction.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ENG 75012 READING AND INTERPRETING RESEARCH ON WRITING 3 Credit Hours**

(Slashed with ENG 65012) Course focuses on how to read critically and interpret published research by examining the principle means through which 'knowledge' is constructed in writing research.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ENG 75022 RHETORICAL THEORY:GREEK AND ROMAN 3 Credit Hours**

(Slashed with ENG 65022) Course examines classical Greek and Roman rhetorical traditions and, to a lesser extent, their reappearance in contemporary rhetorical theories and composition pedagogies.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ENG 75023 RHETORICAL THEORY:18TH, 19TH AND 20TH CENTURIES 3 Credit Hours**

(Slashed with ENG 65023) Course surveys 18th-,19th- and 20th-century developments in rhetorical theory and their influences on contemporary pedagogical and theoretical practices.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ENG 75027 ROLE OF COMPOSITION 3 Credit Hours**

(Slashed with ENG 65027) (Repeatable for maximum 6 credit hours) Study of composition's contributions to writing studies such as writing pedagogy/theory, writing technologies, assessment, process research, WAC, program administration, rhetoric and cultural studies.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Seminar

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**ENG 75035 LINGUISTICS FOR RHETORICIANS 3 Credit Hours**

(Slashed with ENG 65035) (Repeatable for maximum 6 credit hours) Provides an introduction to linguistic theories, concepts and tools relevant to the teaching and researching of various dimensions of written texts.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Seminar

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**ENG 75044 RESEARCH DESIGN 3 Credit Hours**

(Slashed with ENG 65044) (Repeatable for maximum 6 credit hours) Introduces students to a range of research methodologies through theoretical scholarship and guided practice, culminating in a pilot research project.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Seminar

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**ENG 75051 LITERACY:FUNCTIONS, PRACTICES AND HISTORY 3 Credit Hours**

(Slashed with ENG 65051) Introduces students to a range of research methodologies through theoretical scholarship and guided practice, culminating in a pilot research project. Course surveys and critically evaluates historical and contemporary studies of literacy in terms of three dominant metaphors ('adaptation,' 'power,' 'grace') those studies employ. Prerequisite: Doctoral standing.

**Prerequisite:** graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ENG 75052 WRITING ACTIVITY AS SOCIAL PRACTICE 3 Credit Hours**

(Slashed with ENG 65052) Through Vygotskian-based activity theory and contemporary theories of practice, course explores the rhetorical bases and implications of studying literacy and writing as embedded activity.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ENG 75053 WRITING TECHNOLOGIES 3 Credit Hours**

(Cross-listed with ENG 65053) Course critically examines theoretical and pedagogical claims concerning writing technologies and begins identifying the conceptual components of a grounded theory for technology-enhanced literacy learning.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ENG 76002 BRITISH AND IRISH LITERATURE FROM THE EARLY ROMANTICS ONWARD 3 Credit Hours**

(Slashed with ENG 66002) Broad, synchronic study of the literature identified with a single period in literary history embracing various genres and relating the literature to other cultural phenomena of the time.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ENG 76051 SHAKESPEARE 3 Credit Hours**

(Slashed with ENG 66051) Close reading of selected plays and poems by Shakespeare with some emphasis on critical and interpretative problems.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ENG 76101 LITERATURE OF THE UNITED STATES THROUGH THE CIVIL WAR 3 Credit Hours**

(Slashed with ENG 66101) Broad, synchronic study of U.S. literature identified with a single period in literary history embracing various genres and relating the literature to other cultural phenomena of the time.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ENG 76103 ETHNIC LITERATURE OF THE UNITED STATES 3 Credit Hours**

(Slashed with ENG 66103) An examination of selected fiction and theory by ethnic American authors, or of literary representations of special topics relating to ethnic and racial identity.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ENG 76104 AFRICAN-AMERICAN LITERATURE 3 Credit Hours**

(Slashed with ENG 66104) An examination of selected African-American fiction and theory, or of a special topic relating to literary representations of African-American culture, identity or history.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ENG 76302 POST-COLONIAL LITERATURE IN ENGLISH 3 Credit Hours**

(Slashed with ENG 66302) An examination of selected fiction and theory in English by post-colonial authors from India, Africa, South Africa, the Caribbean and elsewhere.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ENG 76401 LITERARY MOVEMENTS 3 Credit Hours**

(Slashed with ENG 66401) An examination of one particular movement in literary history via its writers, artists, benefactors, thinkers, political demagogues and critics.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ENG 76501 NARRATIVE LITERATURE 3 Credit Hours**

(Slashed with ENG 66501) Close readings of selected novels, short stories, biographies, autobiographies, life writing, journals, and other forms of narrative and verse by British, American and other writers in English, from one or more periods in literary history.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ENG 76502 DRAMATIC LITERATURE 3 Credit Hours**

(Slashed with ENG 66502) Close reading of selected plays and other dramatic forms by writers of Britain, Ireland and the United States, from one or more periods in literary history.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ENG 76592 PRACTICUM IN TUTORING WRITING 1 Credit Hour**

(Repeatable for credit) Practical training and experience in tutoring composition.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture, Practical Experience

**Contact Hours:** 1 lecture

**Grade Mode:** Standard Letter

**ENG 76595 SPECIAL TOPICS:AUTHORS AND AUTHORSHIP 3 Credit Hours**

(Repeatable for credit) (Slashed with ENG 66595) Research-based study of problems in the theory or practice of authorship. Typical courses include 'the creative process', 'authors and printers', 'Faulkner in Hollywood'.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ENG 76706 METHODS IN THE STUDY OF LITERATURE 3 Credit Hours**

(Slashed with ENG 66706) Analytical reading and interpretation of published research and criticism, its assumptions, trends, controversies; course will identify and contextualize present opportunities for research in field. Required for Ph.D.s specializing in Division II.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ENG 76791 SEMINAR:BRITISH AND IRISH LITERATURE 3 Credit Hours**

(Repeatable for credit) (Slashed with ENG 66791) In-depth treatment of various topics from old English literature, Beowulf, Middle English literature, and Chaucer.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Seminar

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**ENG 76891 SEMINAR:LITERATURE OF THE UNITED STATES 3 Credit Hours**

(Repeatable for credit) (Slashed with ENG 66891) This course will examine the construction of American identities. Writers typically discussed are Howells, Dreiser, Cahan, Anderson, Fitzgerald, Dos Passos, Wright, Baldwin, Bellow, Ikada, Jen and others. Content varies.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Seminar

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**ENG 76895 SPECIAL TOPICS 3 Credit Hours**

(Repeatable for credit) (Slashed with ENG 66895) Study of selected special topics in literature.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ENG 76991 SEMINAR:GENRE 3 Credit Hours**

(Repeatable for credit) (Slashed with ENG 66991) In-depth examination of one or more kinds of texts focusing on how forms are defined historically and analytically, with special attention to current approaches.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Seminar

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**ENG 77101 FEMINIST THEORY AND CRITICISM 3 Credit Hours**  
(Slashed with ENG 67101) Study of key issues and concepts in feminist theory and criticism, including the nature, causes and effects (political, social and psychological) of certain types of representation of women and discourse practices employed by women.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ENG 77104 SOCIAL AND CULTURAL THEORY AND CRITICISM 3 Credit Hours**

(Repeatable for credit) (Slashed with ENG 67104) Study of important issues and concepts in Marxist, new historicist, ethnic, post-colonialist and other modes of social cultural theory and criticism.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ENG 77591 SEMINAR:THEORY AND CRITICISM 3 Credit Hours**

(Repeatable for credit) (Slashed with ENG 67591) In-depth study of important topics in contemporary theory and criticism.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Seminar

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**ENG 77691 SEMINAR:SCHOLARLY EDITING 3 Credit Hours**

(Repeatable for credit when topic varies) (Slashed with ENG 67691) In-depth treatment of various topics from modern scholarly editing.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Seminar

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**ENG 78093 VARIABLE TITLE WORKSHOP IN ENGLISH 2-6 Credit Hours**

(Repeatable for a maximum of 8 credit hours) (Cross-listed with ENG 68093) Designed to focus on concerns of the profession/discipline to bring secondary teachers up to date on new developments in the field. Maximum for degree credit is 4 hours.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Workshop

**Contact Hours:** 2-6 other

**Grade Mode:** Satisfactory/Unsatisfactory

**ENG 78096 INDIVIDUAL INVESTIGATION 1-3 Credit Hours**

(Repeatable for credit) (Slashed with ENG 68096) Intensive study of selected writer or special topic.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Individual Investigation

**Contact Hours:** 1-3 other

**Grade Mode:** Standard Letter-IP

**ENG 78392 PRACTICUM IN TEACHING COLLEGE ENGLISH 3 Credit Hours**

(Repeatable for credit) (Slashed with ENG 68392) Practical training and experience in teaching beginning composition courses.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Practical Experience

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**ENG 85024 DOMAIN RHETORICS AND THE CONSTRUCTION OF KNOWLEDGE 3 Credit Hours**

(Repeatable twice for credit) Course examines disciplinarity and knowledge production as historically and socially situated practices and how they are realized through linguistic, rhetorical and material processes and systems.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ENG 85025 THEORIES AND SYSTEMS OF WRITING AND REPRESENTATION 3 Credit Hours**

Course examines the history and use of scripts and other means of constructing shared meaning and the attendant contemporary issues concerning writing and representation.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ENG 85033 THE RHETORICAL NATURE AND FUNCTION OF EXTENDED DISCOURSE 3 Credit Hours**

Examines discourse as a rhetorical and socio-political practice that extends beyond the temporal and material boundaries of individual texts by considering how discursive practice is embedded within, sustains, and modifies other social, cultural, and political practices.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ENG 85041 FIELD RESEARCH METHODS IN WRITING 3 Credit Hours**

Course focuses on qualitative methods for conducting field research in writing within communities of practice and particular contexts and for analyzing and interpreting data.

**Prerequisite:** 9 credit hours from the following courses: ENG 75012, ENG 75022, ENG 75023, ENG 73034, ENG 75051, ENG 75052, ENG 75053; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ENG 85042 DISCOURSE ANALYSIS 3 Credit Hours**

Explores various approaches to discourse analysis (e.g., critical discourse analysis, narrative theory, systemic functional linguistics) and teaches students how to use them to conduct linguistic analyses of discourse.

We will examine discourse in terms of the key functions language serves as a form of social action: to represent the world, to invoke and create social relationships, interactions, and identities, and to organize utterances into meaningful discursive events and products.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ENG 85054 STUDIES IN LITERACY AND COMMUNITY 3 Credit Hours**

Course expands on ENG 75052 by examining in more detail how literacy is embedded in the activities and practices of academic, civic and professional communities.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter



**ENG 85055 THE NATURE AND RELATIONSHIP OF ACADEMIC AND NONACADEMIC LITERACY 3 Credit Hours**

Course explores the relationship between academic and non-academic literacy, focusing on relationships pertaining to the school-to-work transitions that students make.

**Prerequisite:** Doctoral standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ENG 85056 INTRODUCTION TO THE STUDY OF WRITING ASSESSMENT: RESEARCH, THEORY AND PRACTICE 3 Credit Hours**

Provides students with an introduction to the theory, research, and practice of writing assessment outside the classroom, as it is informed through the study of the literatures of college writing assessment and educational measurement. In addition to acquiring a basic understanding of measurement principles like reliability and validity for assessing student writing, students can complete projects of their own design for their own institutions.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ENG 85057 RHETORICAL METHODS 3 Credit Hours**

Focuses on methodological practices associated with rhetorical theory and considers the epistemological and ontological underpinnings of these theories' methodologies. Course investigates how these theories know and what they deem worth knowing. The course is designed around several significant approaches to analysis, both classical and contemporary. This orientation is intended to offer background and prompt students to apply those rhetorical methodologies in their own work.

**Prerequisite:** 6 credit hours from ENG 75012, ENG 75022, ENG 75023; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ENG 85060 DIRECTED READINGS IN WRITING AND RHETORIC 3 Credit Hours**

Topics covered will vary according to the needs of students demonstrating deficiency in qualifying exams and/or requiring additional work before undertaking a dissertation project.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ENG 88098 RESEARCH DOCTORAL 1-15 Credit Hours**

(Repeatable for credit) Research or individual investigation for doctoral students who have not yet passed candidacy examination. Credits earned may be applied toward degree if department approves.

**Prerequisite:** Graduate standing; and special approval of the graduate chairman.

**Schedule Type:** Research

**Contact Hours:** 1-15 other

**Grade Mode:** Satisfactory/Unsatisfactory

**ENG 89199 DISSERTATION I 15 Credit Hours**

(Repeatable for credit) Doctoral dissertation, for which registration in two semesters is required first of which will be the semester in which dissertation work is begun and continuing until completion of 30 hours.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Dissertation

**Contact Hours:** 15 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**ENG 89299 DISSERTATION II 15 Credit Hours**

(Repeatable for credit) Continuing registration required of doctoral students who have completed the initial 30 hours of dissertation and continuing until all degree requirements are met.

**Prerequisite:** ENG 89199; and doctoral standing.

**Schedule Type:** Dissertation

**Contact Hours:** 15 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

## Enology (ENOL)

**ENOL 14600 INTRODUCTION TO ENOLOGY 3 Credit Hours**

Targets people who became interested in home winemaking with possibilities to grow into the small business opportunity, as well as cellar employees interested in winemaking career. During this course, students build proper basic understanding of winemaking which alleviates common home winemaker's errors.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter-IP

**ENOL 14800 WINERY SANITATION 3 Credit Hours**

The basic science and technology of winery sanitation that includes an introduction to wine microbiology. Covers all methods used for winery sanitation including premises, tanks, pumps, filters, oak barrels and sampling equipment, including but not limited to chemical agents, reagents and thermal treatments leading to sterile bottling. Environmental issues and compliance are also addressed.

**Prerequisite:** ENOL 14600.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter-IP

**ENOL 16000 WINERY EQUIPMENT OPERATION 2 Credit Hours**

Covers process technologies and process systems used in modern commercial wineries. Overview of winemaking systems, including work place safety, cleaning and sanitation procedures, winemaking equipment and materials, tanks, barrels and barrel alternatives, filtration systems and bottling equipment. Also touches upon on chillers and electrical needs.

**Prerequisite:** ENOL 14600.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter-IP

**ENOL 21000 INTRODUCTION TO WINE MICROORGANISMS 3 Credit Hours**

Introduction to the basic principles of wine microbiology and the variety of microorganisms frequently encountered in the wine making process. Yeasts, bacteria and molds play vital roles in the production of wine, both beneficial and harmful. Students become familiar with the morphology, reproduction and sensory attributes of wine microorganisms in order to understand their influence on winemaking and to be able to manage them effectively.

**Prerequisite:** ENOL 14600.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 2.5 lecture, 1 lab

**Grade Mode:** Standard Letter-IP

**ENOL 24600 INTERMEDIATE ENOLOGY - HARVEST AND CRUSH 2 Credit Hours**

Focused on advanced science and technology concepts of winemaking as it relates to pre-harvest, fruit harvest, and procedures involved in juice and must preparation. Builds on the fundamentals taught in Introduction to Enology, Molecular Principles of Grape and Wine, and Wine Microbiology.

**Prerequisite:** ENOL 14600.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 1.5 lecture, 1 lab

**Grade Mode:** Standard Letter-IP

**ENOL 24700 INTERMEDIATE ENOLOGY - POSTHARVEST 2 Credit Hours**

Focused on advanced science and technology concepts of winemaking as it relates to post harvest procedures involved in stabilization, clarification, fining, and bottling. Builds on the fundamentals taught in Introduction to Enology, Molecular Principles of Grape and Wine, Wine Microbiology, Wine and Must Analysis, and Intermediate Enology Harvest and Crush.

**Prerequisite:** ENOL 14600 and ENOL 24600.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 1.5 lecture, 1 lab

**Grade Mode:** Standard Letter-IP

**ENOL 25792 FALL WINE PRODUCTION FIELD WORK (ELR) 3 Credit Hours**

Principles of grape juice and wine analysis and the reasons for use of each analysis. Analyses of a practical and useful nature are chosen for the laboratory exercises demonstrating various chemical, physical and biochemical methods. Students participate in workshops and hands-on experiences at participating wineries.

**Prerequisite:** ENOL 14600; and ENOL 14800; and ENOL 16000.

**Corequisite:** ENOL 24600.

**Schedule Type:** Field Experience, Lecture

**Contact Hours:** .5 lecture, 2.5 other

**Grade Mode:** Standard Letter-IP

**Attributes:** Experiential Learning Requirement

**ENOL 25992 CELLAR OPERATIONS FIELD WORK (ELR) 2 Credit Hours**

Provide students initiated in the field of enology with actual and practical exposure to the technology of wine making as is performed during the passive vineyard periods associated with winter and spring. Students are expected to improve their understanding of the methods and science involved by on-site participation in each of the various activities associated with finished wine production. Course serves as actual practical exposure and may qualify as experience for those seeking employment in commercial enology.

**Prerequisite:** ENOL 25792.

**Schedule Type:** Field Experience, Lecture

**Contact Hours:** .6 lecture, 4.25 other

**Grade Mode:** Standard Letter-IP

**Attributes:** Experiential Learning Requirement

**ENOL 26600 SENSORY EVALUATION 3 Credit Hours**

Intended for those individuals who need to develop an understanding of the principles of sensory evaluation used in commercial wine making. It also benefits wine enthusiasts interested in reaching advanced levels of appreciation, as well wine producers, wine merchants and enologists, who by the nature of their profession need to discern flavors and establish tasting benchmarks. Students practice sensory analysis at home and in workshops to further their sensory evaluation skills and techniques.

**Prerequisite:** ENOL 14600.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 2.5 lecture, 1 lab

**Grade Mode:** Standard Letter-IP

**ENOL 26800 WINE AND MUST ANALYSIS 3 Credit Hours**

Principles of grape juice and wine analysis and the reasons for use of each analysis. Analyses of a practical and useful nature are chosen for the laboratory exercises demonstrating various chemical, physical and biochemical methods. Students participate in workshops and hands-on experiences at participating wineries.

**Prerequisite:** ENOL 14600.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 2.5 lecture, 1 lab

**Grade Mode:** Standard Letter-IP

## Entrepreneurship (ENTR)

**ENTR 17001 START-UP ENTREPRENEURS 1 Credit Hour**

This course enables students to learn about entrepreneurship directly from firsthand knowledge and experience drawn from a wide variety of successful real-world entrepreneurs. Throughout the course, those who have transformed a simple idea into a sustainable success share the beliefs and behaviors that helped them build a thriving new entity. Students will not receive graduation credit for both ENTR 17001 and ENTR 17002.

**Prerequisite:** Non-entrepreneurship majors or minors only (neither entrepreneurship majors nor entrepreneurship minors will receive credit for ENTR 17001 towards their degree).

**Schedule Type:** Lecture

**Contact Hours:** 1 lecture

**Grade Mode:** Standard Letter

**ENTR 17002 ENTREPRENEURIAL MINDSET 2 Credit Hours**

This course engages students in the study of the fundamental aspects of the entrepreneurial mindset. The course enables students to learn about entrepreneurship directly from firsthand knowledge and experience drawn from a wide variety of successful real-world entrepreneurs. The course next guides each student through the process of developing an entrepreneurial mindset. Finally, each student then uses the entrepreneurial mindset to recognize and evaluate opportunities in his or her own life, regardless of the student's chosen career path. Students will not receive graduation credit for both ENTR 17001 and ENTR 17002.

**Prerequisite:** Non-entrepreneurship majors or minors only (neither entrepreneurship majors nor entrepreneurship minors will receive credit for ENTR 17002 towards their degree).

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**ENTR 27056 INTRODUCTION TO ENTREPRENEURSHIP 3 Credit Hours**

The study of the entrepreneurial process from conception to birth of a new venture. This includes attributes of successful entrepreneurs, opportunity recognition, innovation, venture screening, risk assessment, risk tolerance, identification of resources and business planning to learn how to turn opportunities into viable business.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ENTR 27192 BEGINNING PRACTICUM (ELR) 1-4 Credit Hours**

(Repeatable for a maximum of 4 credit hours) This course offers the student a chance to explore the operations within an entrepreneurial venture through a real life consulting project. Students will work on a defined project for a small business or startup. Faculty and staff of the Center for Entrepreneurship and Business Innovation (CEBI) will be responsible for pairing students with projects. The time commitment for this course is approximately 50 hours per credit hour.

**Prerequisite:** ENTR 27056 with a minimum C grade.

**Schedule Type:** Practical Experience

**Contact Hours:** 1-4 other

**Grade Mode:** Standard Letter

**Attributes:** Experiential Learning Requirement

**ENTR 27466 SPEAKER SERIES IN ENTREPRENEURSHIP 1 Credit Hour**

Explores entrepreneurship based upon the experiences of a broad range of entrepreneurs. During the semester, at least eight entrepreneurs will share their paths in establishing a successful enterprise, including some of the obstacles and missteps they made along the way. This course is also offered in an online format.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 1 lecture

**Grade Mode:** Standard Letter

**ENTR 37040 ENTREPRENEURIAL TOOLS 3 Credit Hours**

Provides an overview of the analytical, communication, and decision-making skills that students will need to succeed in subsequent coursework and as an entrepreneur. Topics include strategic analysis, financial analysis, case analysis, decision-making, and persuasive communications. Incorporates professional development skills and opportunities. 25 overall GPA; and Entrepreneurship major or minor; or Arts Entrepreneurship minor

**Prerequisite:** ENTR 27056 with a minimum C grade; minimum 2.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ENTR 37045 SALES IN THE ENTREPRENEURIAL VENTURE 3 Credit Hours**

Selling and the management of the sales force in the entrepreneurial environment. Special focus is given to enhancing students' selling skills and background in developing an effective sales force for an entrepreneurial organization.

**Prerequisite:** ENTR 27056; and minimum 2.25 overall GPA; and Entrepreneurship major or minor.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ENTR 37065 ENTREPRENEURIAL FINANCE 3 Credit Hours**

Students are introduced to the key elements of finances in an entrepreneurial environment. The course is a mix of strategy and operating considerations for early stage businesses. Concepts that are taught include sources of capital, the economic ecosystem, core and adjacency strategies, strategy pivots, customer value creation and switching costs, pricing models, operating costs, cash flow planning, revenue forecasts and financial projections, private and public company analysis, and franchise evaluation. At the end of the course students should be able to think critically about business and make critical strategic evaluations during the course of a business lifecycle.

**Prerequisite:** ECON 22060 and ENTR 27056; minimum 2.25 overall GPA; and Entrepreneurship major or minor.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ENTR 37070 SOCIAL ENTREPRENEURSHIP 3 Credit Hours**

Social entrepreneurs create innovative solutions to solve challenging social and environmental issues affecting the world around them. In this course, students will learn how to lead and manage charities, non-government organizations, social oriented enterprises and not for profit organizations. Students will apply entrepreneurial business and innovative skills to effectively tackle global issues impacting society.

**Prerequisite:** ENTR 27056.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ENTR 37075 ENTREPRENEURIAL MARKETING 3 Credit Hours**

Application of marketing concepts to entrepreneurial situations. Emphasis is given to market segmentation and analysis, product and service positioning and market-oriented firm development.

**Prerequisite:** ENTR 27056; and minimum 2.25 overall GPA; and Entrepreneurship major or minor.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ENTR 37080 NEW VENTURE CREATION (WIC) 3 Credit Hours**

The process of formulating, planning and implementing a new venture. Apply the skills learned in the functional areas toward the goal of starting a business. Exposure to detailed descriptions of 'how to' embark on a new venture in a logical manner.

**Prerequisite:** ENTR 27056; and ENTR 37040 with a minimum C grade; and ENTR 37065 or FIN 36053; minimum C grade in ENG 21011, COMM 15000 and MATH 11010; minimum 2.25 overall GPA; and Entrepreneurship major or minor.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Writing Intensive Course

**ENTR 37192 ADVANCED PRACTICUM (ELR) 1-4 Credit Hours**

(Repeatable for a total of 4 credit hours) This course offers the student a chance to explore and apply their organizational leadership, teamwork, communication, critical thinking and problem solving skills in an entrepreneurial setting by providing a real life consulting experience. In this practicum, students will be responsible for defining and managing their projects, working with clients lined up through the faculty member and the Center for Entrepreneurship and Business Innovation. The time commitment for this course is approximately 50 hours per credit hour

**Prerequisite:** ENTR 27056 and ENTR 37075; and ENTR 37040 with a minimum C grade; and minimum 2.25 overall GPA; and Entrepreneurship major or minor.

**Schedule Type:** Practical Experience

**Contact Hours:** 1-4 other

**Grade Mode:** Standard Letter

**Attributes:** Experiential Learning Requirement

**ENTR 37195 SPECIAL TOPICS IN ENTREPRENEURSHIP I 1-4 Credit Hours**

(Repeatable for credit) Special topics course offered on an irregular basis; different topics and faculty involved each time the course is offered.

**Prerequisite:** ENTR 27056; and minimum 2.25 overall GPA.

**Schedule Type:** Lecture

**Contact Hours:** 1-4 lecture

**Grade Mode:** Standard Letter

**ENTR 45096 INDIVIDUAL INVESTIGATION IN ENTREPRENEURSHIP 1-3 Credit Hours**

(Repeatable for credit) Independent investigation of appropriate problem undertaken by a senior entrepreneurship major.

**Prerequisite:** Special approval.

**Schedule Type:** Individual Investigation

**Contact Hours:** 1-3 other

**Grade Mode:** Standard Letter

**ENTR 47045 ENTREPRENEURIAL LEADERSHIP 3 Credit Hours**

Application of business start-up and leadership concepts to entrepreneurial situations. Emphasis is given to mentoring and coaching students in ENTR 27065 or ENTR 27075.

**Prerequisite:** ENTR 47049 with a minimum B grade; and Entrepreneurship major.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ENTR 47047 STRATEGIC DILEMMAS IN ENTREPRENEURSHIP 3 Credit Hours**

Examines early challenges with strategic consequences faced by the entrepreneur. The topics covered include the timing of entrepreneurial entry, the type of entry (startup vs. franchise vs. acquisition), family business dilemmas, division of roles in a new venture, equity split, hiring dilemmas, investor dilemmas, exit choices and other dilemmas that have long-term consequences for entrepreneurs, their ventures, as well as for co-founders, employees, investors, and potential acquirers. The course heavily relies on case studies as a primary means of dilemma analysis.

**Prerequisite:** ENTR 27056 with a minimum C grade; minimum 2.25 overall GPA; and Entrepreneurship major or minor; and junior or senior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ENTR 47048 ENTREPRENEURIAL EXPERIENCE I (ELR) 3 Credit Hours**

First of a two-course sequence designed to immerse entrepreneurship majors into the dynamics of starting and running a business through the creation of their own venture. Students in this course will utilize a plan they developed in New Venture Creation, ENTR 37080, or create a new business plan. Activities may include identifying market needs, researching financial viability of the business venture to meet that need, marshaling the resources to launch a business, and launching the business.

**Prerequisite:** Minimum C grade in ENG 21011, ENTR 37080, COMM 15000 and MATH 11010; and minimum 2.250 overall GPA; and Entrepreneurship major.

**Schedule Type:** Laboratory

**Contact Hours:** 3 lab

**Grade Mode:** Standard Letter

**Attributes:** Experiential Learning Requirement

**ENTR 47049 ENTREPRENEURIAL EXPERIENCE II 3 Credit Hours**

Second of a two-course sequence designed to immerse entrepreneurship majors into the dynamics of starting and running a business through the creation of their own venture. Activities include growing the business started during Entrepreneurial Experience I, meeting all operational requirements of the business, evaluating the business, and determining whether to continue the business or shut it down upon completion of the course.

**Prerequisite:** ENTR 47048; and minimum 2.250 overall GPA; and Entrepreneurship major and minor.

**Schedule Type:** Laboratory

**Contact Hours:** 3 lab

**Grade Mode:** Standard Letter

**ENTR 47070 NEW ENTERPRISE FORMATION 3 Credit Hours**

This course will develop the student's ability to analyze, plan and implement a new venture. This course is both an experiential and "how to" course. Students will perform research to evaluate the viability of identified business opportunities by understanding the key industry factors, market and competitive factors and customer needs that affect those opportunities. Students will develop personal entrepreneurial capacity in the field or industry in which their business will operate. Students will do a feasibility analysis and develop a business canvas model that will result in a flexible business plan. Entrepreneurship majors will not receive credit for this course.

**Prerequisite:** Minimum C grade in ENG 21011 and ENTR 37040; and ENTR 27056 and ENTR 37065; and minimum 2.250 overall GPA; and non-Entrepreneurship majors only.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ENTR 47091 SEMINAR IN ENTREPRENEURSHIP 3 Credit Hours**

(Repeatable for credit) Current topics in entrepreneurship.

Entrepreneurship majors will not receive credit for this course. Not open to Entrepreneurship majors.

**Prerequisite:** ENTR 27056; and student in the College of Business Administration; and junior or senior standing.

**Schedule Type:** Seminar

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**ENTR 47187 INTERNATIONAL EXPERIENCE IN ENTREPRENEURSHIP 3 Credit Hours**

The student will gain firsthand exposure to international businesses and organizations generally relating to business, and specifically relating to entrepreneurship. The course includes pre-trip orientation sessions, visits to international businesses and organizations, and opportunities for cultural activities.

**Prerequisite:** ENTR 27056; and Entrepreneurship major or minor; and special approval.

**Schedule Type:** Field Experience

**Contact Hours:** 9 other

**Grade Mode:** Standard Letter

**ENTR 47195 SPECIAL TOPICS IN ENTREPRENEURSHIP II 1-4 Credit Hours**

(Repeatable for credit) Special topics course offered on an irregular basis; different topics and faculty involved each time the course is offered.

**Prerequisite:** ENTR 27056; and minimum 2.25 overall GPA.

**Schedule Type:** Lecture

**Contact Hours:** 1-4 lecture

**Grade Mode:** Standard Letter

**ENTR 47292 ENTREPRENEURIAL INTERNSHIP (ELR) 3 Credit Hours**

Preparation of research report concurrent with on-the-job experience with cooperating business or other organization.

**Prerequisite:** Minimum 2.250 overall GPA; and Entrepreneurship major; and special approval.

**Schedule Type:** Practical Experience

**Contact Hours:** 9 other

**Grade Mode:** Standard Letter

**Attributes:** Experiential Learning Requirement

**ENTR 65051 TECHNOLOGY COMMERCIALIZATION 3 Credit Hours**

This course is designed to teach students how to evaluate opportunities for technology commercialization and how to apply the steps required in order to take a technological innovation to the marketplace.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

## Environmental Health and Safety (EVHS)

**EVHS 10001 ENVIRONMENTAL TECHNOLOGY I 3 Credit Hours**

Survey course in environmental technology, including health and safety, history, environmental compliance and related issues.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**EVHS 10004 TOXICOLOGY 3 Credit Hours**

Examination of the terminology and classification of poisons that affect humans. Includes poison sources, modes of exposure, health effects and control measures.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**EVHS 10010 INDUSTRIAL HYGIENE I 4 Credit Hours**

In-depth study of safety methods and procedures with lab for identifying, monitoring, handling, containing and disposing of hazardous substances and hazardous conditions in the workplace.

**Prerequisite:** EVHS 10004.

**Schedule Type:** Lecture

**Contact Hours:** 4 lecture

**Grade Mode:** Standard Letter

**EVHS 20001 ENVIRONMENTAL LAW 3 Credit Hours**

Emphasize civil, criminal and tort liability issues; procedural and constitutional requirements; and administrative codes, rules and regulations for fire, health, safety and environmental hazards.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**EVHS 20004 ENVIRONMENTAL HEALTH AND SAFETY I 3 Credit Hours**

Examination of hazards assessment including organizational, environmental and disaster planning; health and safety inspection and reporting criteria; and first aid procedures.

**Prerequisite:** EVHS 10001.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter



**EVHS 20008 ENVIRONMENTAL SAFETY ADMINISTRATION 3 Credit Hours**

Organization and operation of environmental safety unit; relationships with business governmental and community entities involved in environmental safety and hazards control.

**Prerequisite:** EVHS 10010.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**EVHS 20092 ENVIRONMENTAL TECHNOLOGY INTERNSHIP I (ELR) 3 Credit Hours**

(Repeatable for credit) This on- or off campus experience gives students an opportunity to apply learned concepts in the classroom to practical environmental technology situations.

**Prerequisite:** EVHS 20008.

**Schedule Type:** Practical Experience

**Contact Hours:** 21 other

**Grade Mode:** Standard Letter

**Attributes:** Experiential Learning Requirement

**EVHS 21010 INDUSTRIAL HYGIENE II 4 Credit Hours**

Emphasis is placed on methodologies of gas, vapor, and aerosol sampling; including instrumentation function and calibration. Measurement and evaluation of physical hazards including noise, heat stress, lighting and radiation hazards. Includes a major emphasis upon the types of problems and calculations likely to be found in general industry. Laboratory exercises and use of a case study to explore the methods of sampling.

**Prerequisite:** BSCI 10120; and CHEM 10052; and EVHS 10010.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture, 1 lab

**Grade Mode:** Standard Letter

**EVHS 21092 ENVIRONMENTAL TECHNOLOGY INTERNSHIP II (ELR) 3 Credit Hours**

(Repeatable for credit) This on-or off-campus experience gives students an opportunity to apply learned concepts in the classroom to practical environmental technology situations.

**Prerequisite:** EVHS 20092; and special approval.

**Schedule Type:** Practical Experience

**Contact Hours:** 21 other

**Grade Mode:** Standard Letter

**Attributes:** Experiential Learning Requirement

**EVHS 22095 SPECIAL TOPICS IN ENVIRONMENTAL HEALTH AND SAFETY 3 Credit Hours**

(Repeatable for a total of 6 hours) Specialized instruction oriented primarily to application of current technology developed for the field of environmental technology. Course is repeatable as the specific topics will vary.

**Prerequisite:** Special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**EVHS 22096 INDIVIDUAL INVESTIGATION IN ENVIRONMENTAL HEALTH AND SAFETY 1-3 Credit Hours**

(Repeatable for credit) Independent research of environmental technology topic supervised by an environmental technology faculty member.

**Prerequisite:** Special approval.

**Schedule Type:** Individual Investigation

**Contact Hours:** 1-3 other

**Grade Mode:** Standard Letter

**EVHS 30002 ENVIRONMENTAL ISSUES II 3 Credit Hours**

Current topics in environmental technology including climate change and alternate energy sources.

**Prerequisite:** EVHS 10001.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**EVHS 30020 HAZARDOUS WASTE OPERATIONS AND EMERGENCY RESPONSE 4 Credit Hours**

Study of hazardous waste operations and emergency response to release of hazardous materials in compliance with EPA and OSHA regulations (29CRF 1910.120).

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 4 lecture

**Grade Mode:** Standard Letter

**EVHS 40006 FIRE PREVENTION AND CONTROL 3 Credit Hours**

Conditions and properties conducive for combustible states and hazards; techniques and procedures for fire extinguishing and control; preventative strategies; fire codes and alarm systems.

**Prerequisite:** EVHS 10001.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

## Environmental Health Sciences (EHS)

**EHS 50060 PUBLIC HEALTH LABORATORY METHODS 3 Credit Hours**

This course introduces the student to the fundamental theory and hands on use to track specimen collection and laboratory analysis.

Environmental specimens will be examined for their public health importance using classical and modern techniques. The student will spend time learning classical laboratory methods and their modern use in the laboratory environment. Examples include culture and microscopic identification of microorganisms, identification of disease vectors, detection of newborn disease and detection of terrorism agents.

**Prerequisite:** PH 30006 or CHEM 10062 or CHEM 10971 or BSCI 30140 or instructor approval.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 2 lecture, 1 lab

**Grade Mode:** Standard Letter

**EHS 50109 LABORATORY SAFETY AND HYGIENE 3 Credit Hours**

(Cross-listed with PH 40109) Basic introduction to laboratory safety, chemical hygiene, and biosafety. Includes the research compliance programs of institutions (IBC, IACUC, IRB, RSC) and the OSHA Chemical Hygiene Standard requirements and program responsibilities. General lab safety concepts are reviewed, along with chemical handling and storage, fumehoods and ventilation, hazardous waste disposal, radiation safety, and lab design. Basic principles of biosafety are covered, BSL 1-4 levels, biosafety cabinets, select agents, bloodborne pathogens, NIH Guidelines, biosecurity and animal use.

**Prerequisite:** Graduate standing.

**Schedule Type:** Field Experience, Lecture

**Contact Hours:** 2.67 lecture, .33 other

**Grade Mode:** Standard Letter

**EHS 50196 INDIVIDUAL INVESTIGATION IN ENVIRONMENTAL HEALTH SCIENCES 1-3 Credit Hours**

(Repeatable for maximum 6 credits) Individual graduate investigation or research in areas related to environmental health sciences.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Individual Investigation

**Contact Hours:** 1-3 other

**Grade Mode:** Standard Letter-IP

**EHS 52018 ENVIRONMENTAL HEALTH CONCEPTS IN PUBLIC HEALTH 3 Credit Hours**

Provides a comprehensive overview of the core topics in environmental health as related to public health.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**EHS 53009 EMERGING ENVIRONMENTAL HEALTH ISSUES AND RESPONSE 3 Credit Hours**

Provides an overview of emerging environmental health issues that will impact the public's health.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**EHS 53012 OCCUPATIONAL SAFETY AND HEALTH 3 Credit Hours**

Survey of major concepts and issues relating health and safety in the workplace. Emphasis is on the application of public health principles and decision-making practices used by various worker populations for the prevention of injury and disease on the job. This course will cover protective equipment, hazardous conditions, environmental toxins, risk assessment, prevention science approaches and workplace health promotion.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**EHS 53014 BUILT ENVIRONMENT AND PUBLIC HEALTH 3 Credit Hours**

The focus of this course is on preventing disease and injury while improving the health of populations by looking "upstream" at the built environment or those settings designed, created, and maintained by human efforts. Public health effects of community design will be explored, including transportation, land use, parks and green space in the context of physical activity, food environments, air and water quality, injury prevention, social capital and health disparities. Components of healthy communities will be explored in the home, workplace, schools, and health care facilities. Students will examine strategies for creating sustainable health places consistent with the ecological model, through multidisciplinary collaboration, research, and policy to promote the health of populations.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**EHS 60191 VARIABLE CONTENT SEMINAR IN ENVIRONMENTAL HEALTH SCIENCES 1-3 Credit Hours**

(Repeatable for a maximum of 6 credit hours) Seminar on current and important topics in environmental health sciences. Subject matter varies depending on the topic.

**Prerequisite:** Graduate standing.

**Schedule Type:** Seminar

**Contact Hours:** 1-3 other

**Grade Mode:** Standard Letter

**EHS 60192 PRACTICUM EXPERIENCE IN ENVIRONMENTAL HEALTH SCIENCES 3,6 Credit Hours**

Observational and participation in public health activities of a public health agency, hospital or other approved organization. Students complete the field experience with joint supervision from the university and approved organization or agency.

**Prerequisite:** Graduate standing and special approval.

**Schedule Type:** Practical Experience

**Contact Hours:** 9-18 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**EHS 60195 SPECIAL TOPICS IN ENVIRONMENTAL HEALTH SCIENCES 1-3 Credit Hours**

(Repeatable for a maximum of 6 credit hours) Special topics to sample new offerings on topics in environmental health sciences.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 1-3 lecture

**Grade Mode:** Standard Letter

**EHS 63010 APPLIED RISK ASSESSMENT 3 Credit Hours**

Introduces the student to environmental and occupational hazards, assessing the risks associated with hazard exposure. Standard principles of risk assessment are emphasized including methods of hazard identification and regulation, quantitative exposure measurement, dose and toxicity relationships and risk management. Analysis of public policy regulatory guidance and health advisory watchdog recommendations are evaluated.

**Prerequisite:** EPI 52017; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**EHS 63011 APPLICATION OF RISK ANALYSIS IN ENVIRONMENTAL HEALTH 3 Credit Hours**

Students are introduced to methods in risk analysis that are applied by U.S. federal, state, and local agencies in their assessment of chemical toxicants. Linkages between risk assessment, risk management, and risk communication will be studied as components of this process, along with issues and controversies in the analysis of environmental health risks.

**Prerequisite:** EPI 52017; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

## Environmental Studies (ENVS)

### ENVS 22070 NATURE AND SOCIETY (KSS) 3 Credit Hours

Environmental studies takes an interdisciplinary approach to studying the environment, with insights from natural sciences, social sciences and the humanities. This course introduces the discipline and explores theoretical approaches to understanding how humans interact with and perceive their environment. It applies these approaches to some of the world's greatest environmental challenges: climate change, the loss of biodiversity, urban sustainability, food and resource insecurity, and the degradation of the physical environment.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Kent Core Social Sciences

### ENVS 30000 ENVIRONMENTAL PROTECTION REGULATIONS AND ASSESSMENT 3 Credit Hours

(Cross-listed with PLST 30000) The Federal and State environmental regulations including the National Environmental Policy Act, the Clean Air Act, the Clean Water Act, Solid and Hazardous Waste regulations (RCRA) and the Superfund Legislation require the utilization of trained environmental professionals to conduct Environmental Site Assessments (ESAs). The focus of this course is to introduce students to the methods and approaches for conducting environmental research and study of industrial sites with respect to environmental policies and regulations. The enforcement of regulations utilize environmental professionals who serve in governmental agencies, work in private environmental companies that provide assessments and consultations for industries, and who are employed by industries that seek qualified employees to conduct assessments, and provide professional guidance for industrial regulatory compliance.

**Prerequisite:** Junior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

### ENVS 30105 CAREER PATHWAYS IN ENVIRONMENTAL STUDIES 1 Credit Hour

Orients students toward various career pathways in Environmental Studies.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 1 lecture

**Grade Mode:** Satisfactory/Unsatisfactory

### ENVS 32091 ENVIRONMENTAL STUDIES AND SUSTAINABILITY 2 Credit Hours

Various aspects of environmental studies are explored. Topics will vary.

**Prerequisite:** ENVS 22070; and junior standing.

**Schedule Type:** Seminar

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

### ENVS 42099 INTEGRATIVE SENIOR PROJECT (ELR) (WIC) 2 Credit Hours

This is the capstone course for the Environmental Studies major. All students in this course will learn about methods of investigation and presentation in the area of Environmental Studies. The course will culminate in a major research project developed and written by each student.

**Prerequisite:** ENVS 22070 and ENVS 32091.

**Schedule Type:** Seminar

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**Attributes:** Experiential Learning Requirement, Writing Intensive Course

### ENVS 46092 INTERNSHIP IN ENVIRONMENTAL STUDIES (ELR) 3-6 Credit Hours

(Slashed with ENVS 56092) Work experience in local, regional, and national agencies or companies designed to utilize and develop academic and professional skills.

**Prerequisite:** Sophomore standing.

**Schedule Type:** Practical Experience

**Contact Hours:** 9-18 other

**Grade Mode:** Standard Letter

**Attributes:** Experiential Learning Requirement

### ENVS 49195 SPECIAL TOPICS IN ENVIRONMENTAL STUDIES 1-3 Credit Hours

(Slashed with ENVS 49195) Special topics in Environmental Studies.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3-9 lecture

**Grade Mode:** Standard Letter

### ENVS 56092 INTERNSHIP IN ENVIRONMENTAL STUDIES 3-6 Credit Hours

(Slashed with ENVS 46092) Work experience in local, regional, and national agencies or companies designed to utilize and develop academic and professional skills.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Practical Experience

**Contact Hours:** 9-18 other

**Grade Mode:** Standard Letter

### ENVS 59195 SPECIAL TOPICS IN ENVIRONMENTAL STUDIES 1-3 Credit Hours

(Slashed with ENVS 49195) Special topics in Environmental Studies.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3-9 lecture

**Grade Mode:** Standard Letter

## Epidemiology (EPI)

### EPI 50015 SCIENTIFIC WRITING FOR CLINICAL RESEARCH 3 Credit Hours

(Cross-listed with PH 40015) Course provides students the tools to develop proficiency in scientific reading, to conduct presentations and to demonstrate skill in scientific writing, with the goal of preparing clinical researchers to be able to communicate findings to the science community and the general population. Course includes an examination of the science literature in clinical trials research.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**EPI 50017 PHARMACOEPIDEMIOLOGY 3 Credit Hours**

(Cross-listed with PH 40017) Introduction to the field of pharmacoepidemiology, which uses epidemiology methods to understand medication use and distribution at the population level. Course examines risk-benefit and epidemiology approaches to examining medication use and therapeutic trials. Drug and device manufacturing to market are explored.

**Prerequisite:** BST 52019 and EPI 52017; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**EPI 50018 REGULATORY AFFAIRS IN CLINICAL RESEARCH 3 Credit Hours**

(Cross-listed with PH 40018) Course provides the tools for students to develop an understanding of the researcher and organization responsibility in research and development of clinical trials products. Students understand regulations from the government and industry, privacy concerns, liability and ethical issues related to clinical trials research. Examples from the field are explored in detail.

**Prerequisite:** EPI 52017.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**EPI 50196 INDIVIDUAL INVESTIGATION IN EPIDEMIOLOGY 1-3 Credit Hours**

(Repeatable for maximum 6 credits) Individual graduate investigation or research in areas related to epidemiology.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Individual Investigation

**Contact Hours:** 1-3 other

**Grade Mode:** Standard Letter-IP

**EPI 52017 FUNDAMENTALS OF PUBLIC HEALTH EPIDEMIOLOGY 3 Credit Hours**

(Slashed with EPI 72017) Introduces principles, methods and application of epidemiology. Covers the history of epidemiology, concepts of disease causation and prevention, measures of disease frequency and excessive risk, epidemiologic study designs, causal inference, outbreak investigation and screening. Provides experience with calculation of rate standardization; measures of disease frequency, association and impact; and sensitivity and specificity of screening tests. Highlights applications of epidemiology to understanding of disease etiology, transmission, pathogenesis and prevention; evaluation and public policy development.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**EPI 52028 METHODS OF EVIDENCE BASED PUBLIC HEALTH 3 Credit Hours**

(Slashed with EPI 72028) Explores tools and techniques used to quantitatively determine the effectiveness of public health interventions in the social sciences.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**EPI 53089 PLAGUES THAT SHAPED THE WORLD 3 Credit Hours**

(Slashed with EPI 73089) (Cross-listed with PH 43089) Course examines the Bubonic plague, HIV/AIDS, Ebola and pandemic influenza outbreaks to introduce students to the fundamentals of public health, establishing epidemiological principles that explain how plagues erupt and propagate, decimate populations and alter cultures. Inherent in the course's discussion are the social determinants that fuel plague outbreaks and slow recovery. Examples of emerging infectious diseases and threats of bioterrorism are discussed as new plagues for which creative solutions are still required. Students take city excursions and a field trip to assess cultural changes resulting from historical plagues.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**EPI 60191 VARIABLE CONTENT SEMINAR IN EPIDEMIOLOGY 1-3 Credit Hours**

(Repeatable for credit) (Slashed with EPI 80191) Seminar on current and important topics in epidemiology. Subject matter varies depending on the topic.

**Prerequisite:** Graduate standing.

**Schedule Type:** Seminar

**Contact Hours:** 1-3 lecture

**Grade Mode:** Standard Letter

**EPI 60192 PRACTICUM EXPERIENCE IN EPIDEMIOLOGY 3,6 Credit Hours**

(Repeatable for credit) Observational and participation in public health activities of a public health agency, hospital or other approved organization. Students complete a field experience with joint supervision from the university and approved organization or agency.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Practical Experience

**Contact Hours:** 3-18 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**EPI 60195 SPECIAL TOPICS IN EPIDEMIOLOGY 1-3 Credit Hours**

(Repeatable for a maximum 6 credit hours) (Slashed with EPI 80195) Special topics to sample new offerings on topics in epidemiology.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 1-3 lecture

**Grade Mode:** Standard Letter

**EPI 63014 EPIDEMIOLOGY OF CHRONIC DISEASES 3 Credit Hours**

(Slashed with EPI 83014) With a life course approach to chronic disease epidemiology, this course focuses on cardiovascular, respiratory, cerebrovascular diseases and cancer. Health and disease are addressed from a multicausal perspective, which includes individual behaviors; psychosocial issues; and sociodemographic, biological and physiological factors. Time points for prevention and intervention are identified.

**Prerequisite:** EPI 52017; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**EPI 63015 EPIDEMIOLOGY OF INFECTIOUS DISEASES 3 Credit Hours**

(Slashed with EPI 83015) Surveys the history, principles, methods and practice of infectious disease epidemiology, by (1) defining and understanding infectious disease epidemiology surveys, (2) collecting and measuring surveillance data, (3) interpreting epidemiology data and (4) predicting evidence-based outcomes. Primarily a course in epidemiology, students learn some infectious disease microbiology as well.

**Prerequisite:** EPI 52017; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**EPI 63016 PRINCIPLES OF EPIDEMIOLOGIC RESEARCH 3 Credit Hours**

(Slashed with EPI 83016) Course builds upon EPI 52017 to explore deeper the concepts and methods in epidemiologic research. Reviews the measures of disease frequency; association and impact; epidemiologic reasoning and causal inference; and methods and techniques for designing, implementing, analyzing and interpreting various epidemiologic study designs. Discusses advantages and limitations of various study designs. Explores threats to validity, precision and generalizability of epidemiologic studies.

**Prerequisite:** BST 52019 and EPI 52017; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**EPI 63017 EPIDEMIOLOGICAL ANALYSIS 3 Credit Hours**

(Slashed with EPI 83017) Provides practical instruction in the analysis and interpretation of data from various epidemiologic study designs, including cross-sectional, case-control and cohort studies. Reviews statistical concepts and epidemiologic studies designs; outlines a strategy for data analysis; and reviews relevant methodologic issues and applies stratified analysis methods and multivariable regression models to the studies. Develops an understanding of the underlying principles and assumptions, practical application and correct interpretation of the epidemiologic results. Provides hands-on experience on the application of epidemiologic analysis methods and presentation of the results.

**Prerequisite:** BST 52019 and BST 63014 and EPI 52017 and EPI 63016; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**EPI 63018 OBSERVATIONAL DESIGNS FOR CLINICAL RESEARCH 3 Credit Hours**

(Slashed with EPI 83018) Course provides students the skills to design, conduct and perform clinical epidemiology studies using an observational design. Students understand major concepts of clinical research, develop clinical research questions, and solve clinical research problems. Topics include study design, risk, causation, exposures, bias, measurement and validity and disease prognosis.

**Prerequisite:** BST 52019 and EPI 52017; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**EPI 63019 EXPERIMENTAL DESIGNS FOR CLINICAL RESEARCH 3 Credit Hours**

(Slashed with EPI 83019) Principles of experimental designs as they apply to clinical research and clinical trials are presented at an intermediate level. Students understand randomized control trial designs and alternative designs. Study methodology, including randomization and blinding techniques, is covered. Topics include evidence-based medicine; risk prediction and risk scores; instruments and measurement; data issues; and recruitment, retention and adherence.

**Prerequisite:** EPI 63018; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**EPI 63020 ADVANCED EPIDEMIOLOGY AND CLINICAL RESEARCH METHODS 3 Credit Hours**

(Slashed with EPI 83020) This advanced course focuses on why particular methods, study designs or approaches are used in particular investigative scenarios in clinical research. Students develop an advanced understanding and application of epidemiology methods in clinical research.

**Prerequisite:** EPI 63018 and EPI 63019; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**EPI 63021 ETHICAL ISSUES IN PUBLIC HEALTH AND CLINICAL RESEARCH 3 Credit Hours**

(Slashed with EPI 83021) Introduces students to historical and contemporary ethical issues that arise during public health and clinical or biomedical research studies. Broadly covers human subjects research, the responsible conduct of research and the good clinical practice guidelines.

**Prerequisite:** EPI 52017; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**EPI 63034 LONGITUDINAL DATA ANALYSIS 3 Credit Hours**

(Slashed with EPI 73034) Statistical techniques for analyzing longitudinal, or repeated measures, data. Focuses primarily on application of the various statistical models covered, with direct application illustrated using standard statistical software. Topics covered include univariate and multivariate analysis of variance for repeated measures, mixed-effects models (HLM or multilevel models), covariance pattern models, generalized estimating equations (GEE), mixed-effects logistic regression models and missing data in longitudinal studies.

**Prerequisite:** BST 52019 and BST 63014; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**EPI 63192 RESEARCH PRACTICUM IN CLINICAL EPIDEMIOLOGY 1-6 Credit Hours**

Research practicum allows students to gain hands-on experience conducting research in a clinical setting, such as a hospital or other approved organization. Students complete the experience under the supervision of a field preceptor and faculty member.

**Prerequisite:** EPI 63018 and EPI 63019; and graduate standing.

**Schedule Type:** Practical Experience

**Contact Hours:** 3-18 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP



**EPI 63199 THESIS I 2-6 Credit Hours**

Student must register for a total of 6 credit hours in the program. Student may register for 2 to 6 hours in a single semester

**Prerequisite:** Graduate standing.

**Schedule Type:** Masters Thesis

**Contact Hours:** 2-6 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**EPI 63299 THESIS II 2 Credit Hours**

Thesis students must continue registration in Thesis II each semester until all degree requirements are met.

**Prerequisite:** EPI 63199; and graduate standing.

**Schedule Type:** Masters Thesis

**Contact Hours:** 2 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**EPI 72017 FUNDAMENTALS OF PUBLIC HEALTH EPIDEMIOLOGY 3 Credit Hours**

(Slashed with EPI 52017) Introduces principles, methods and application of epidemiology. Covers the history of epidemiology, concepts of disease causation and prevention, measures of disease frequency and excessive risk, epidemiologic study designs, causal inference, outbreak investigation and screening. Provides experience with calculation of rate standardization; measures of disease frequency, association and impact; and sensitivity and specificity of screening tests. Highlights applications of epidemiology to understanding of disease etiology, transmission, pathogenesis and prevention; evaluation and public policy development.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**EPI 72028 METHODS OF EVIDENCE BASED PUBLIC HEALTH 3 Credit Hours**

(Slashed with EPI 52028) Explores tools and techniques used to quantitatively determine the effectiveness of public health interventions in the social sciences.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**EPI 73025 EMERGING ISSUES IN INFECTIOUS DISEASE EPIDEMIOLOGY 3 Credit Hours**

Investigates global emerging and reemerging infectious diseases. Students evaluate root causes of infectious disease emergence and predict outcomes. Data from primary literature is used to predict alternate outcomes. Specific disease models are used to evaluate and compare prevention, treatment and eradication strategies.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**EPI 73026 DESIGN AND IMPLEMENTATION OF HEALTH SURVEYS 3 Credit Hours**

Covers survey design, variable construction, survey administration and data collection methods, variable coding and manipulation and data analysis. Students understand sampling methods and sample size. Large health surveys are discussed. Students gain practical experience through design and implementation of a health survey, which can be used to facilitate dissertation research or a publication.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**EPI 73027 BIOLOGICAL BASIS OF PUBLIC HEALTH 3 Credit Hours**

Integrates the sciences of biology and molecular biology into the principles and practice of public health. Implicit in this course are learning objectives that establish the ecology of infectious disease, the impact of vaccines in disease prevention, and the role of environmental toxins on human health and disease. Additionally, students propose policy, regulations and legislation designed to protect human health within the realm of personalized medicine.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**EPI 73029 PUBLIC HEALTH SURVEILLANCE SYSTEMS 3 Credit Hours**

Introduces students to surveillance systems of both infectious and non-infectious diseases as well as intentional and non-intentional injury. Students are exposed to the theory and practice of surveillance illustrated with examples existing systems from around the world. Culminates in a project where the student creates and evaluates a surveillance system of their own design.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**EPI 73033 ENVIRONMENTAL EPIDEMIOLOGY 3 Credit Hours**

Comprehensive course on concepts in environmental epidemiology and statistical methods in environmental epidemiology, including causal inference models.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**EPI 73034 LONGITUDINAL DATA ANALYSIS 3 Credit Hours**

(Slashed with EPI 63034) Statistical techniques for analyzing longitudinal, or repeated measures, data. Focuses primarily on application of the various statistical models covered, with direct application illustrated using standard statistical software. Topics covered include univariate and multivariate analysis of variance for repeated measures, mixed-effects models (HLM or multilevel models), covariance pattern models, generalized estimating equations (GEE), mixed-effects logistic regression models and missing data in longitudinal studies.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**EPI 73089 PLAGUES THAT SHAPED THE WORLD 3 Credit Hours**  
(Slashed with EPI 53089)(Cross-listed with PH 43089) Course examines the Bubonic plague, HIV/AIDS, Ebola and pandemic influenza outbreaks to introduce students to the fundamentals of public health, establishing epidemiological principles that explain how plagues erupt and propagate, decimate populations and alter cultures. Inherent in the course's discussion are the social determinants that fuel plague outbreaks and slow recovery. Examples of emerging infectious diseases and threats of bioterrorism are discussed as new plagues for which creative solutions are still required. Students take city excursions and a field trip to assess cultural changes resulting from historical plagues.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture, 3 lab

**Grade Mode:** Standard Letter

**EPI 80191 VARIABLE CONTENT SEMINAR IN EPIDEMIOLOGY 1-3 Credit Hours**

(Repeatable for a maximum of 6 credit hours) (Slashed with EPI 60191) Seminar on current and important topics in epidemiology. Subject matter varies depending on the topic.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Seminar

**Contact Hours:** 1-3 lecture

**Grade Mode:** Standard Letter

**EPI 80195 SPECIAL TOPICS IN EPIDEMIOLOGY 1-3 Credit Hours**

(Repeatable for a maximum of 6 credit hours) (Slashed with EPI 60195) Special topics to sample new offerings on topics in epidemiology.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 1-3 lecture

**Grade Mode:** Standard Letter

**EPI 80196 INDIVIDUAL INVESTIGATION IN EPIDEMIOLOGY 1-3 Credit Hours**

Individual graduate investigation or research in areas related to epidemiology.

**Prerequisite:** Doctoral Standing; and special approval.

**Schedule Type:** Individual Investigation

**Contact Hours:** 3-9 other

**Grade Mode:** Standard Letter-IP

**EPI 80198 DIRECTED RESEARCH IN EPIDEMIOLOGY 1-15 Credit Hours**

(Repeatable for credit) Directed research or individual investigation in an area of interest and with the guidance of a Kent State faculty member.

**Prerequisite:** Doctoral standing; and special approval.

**Schedule Type:** Individual Investigation, Research

**Contact Hours:** 1-15 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**EPI 80199 DISSERTATION I 15 Credit Hours**

(Repeatable for credit) Registration for two semesters required, first semester dissertation work begins and continues until completion of Dissertation II and 30 hours of total dissertation work.

**Prerequisite:** Doctoral standing; and special approval.

**Schedule Type:** Dissertation

**Contact Hours:** 15 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**EPI 80299 DISSERTATION II 15 Credit Hours**

(Repeatable for credit) Second course of dissertation sequence completing requirement of with 30 total hours of dissertation work.

**Prerequisite:** EPI 80199; and doctoral standing; and special approval.

**Schedule Type:** Dissertation

**Contact Hours:** 15 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**EPI 83014 EPIDEMIOLOGY OF CHRONIC DISEASES 3 Credit Hours**

(Slashed with EPI 63014) With a life course approach to chronic disease epidemiology, this course focuses on cardiovascular, respiratory, cerebrovascular diseases and cancer. Health and disease are addressed from a multicausal perspective, which includes individual behaviors; psychosocial issues; and sociodemographic, biological and physiological factors. Time points for prevention and intervention are identified.

**Prerequisite:** EPI 72017; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**EPI 83015 EPIDEMIOLOGY OF INFECTIOUS DISEASES 3 Credit Hours**

(Slashed with EPI 63015) Surveys the history, principles, methods and practice of infectious disease epidemiology, by (1) defining and understanding infectious disease epidemiology surveys, (2) collecting and measuring surveillance data, (3) interpreting epidemiology data and (4) predicting evidence-based outcomes. Primarily a course in epidemiology, students learn some infectious disease microbiology as well.

**Prerequisite:** EPI 72017; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**EPI 83016 PRINCIPLES OF EPIDEMIOLOGIC RESEARCH 3 Credit Hours**

(Slashed with EPI 63016) Course builds upon EPI 52017 to explore deeper the concepts and methods in epidemiologic research. Reviews the measures of disease frequency; association and impact; epidemiologic reasoning and causal inference; and methods and techniques for designing, implementing, analyzing and interpreting various epidemiologic study designs. Discusses advantages and limitations of various study designs. Explores threats to validity, precision and generalizability of epidemiologic studies.

**Prerequisite:** BST 52019 and EPI 72017; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**EPI 83017 EPIDEMIOLOGICAL ANALYSIS 3 Credit Hours**

(Slashed with EPI 63017) Provides practical instruction in the analysis and interpretation of data from various epidemiologic study designs, including cross-sectional, case-control and cohort studies. Reviews statistical concepts and epidemiologic studies designs; outlines a strategy for data analysis; and reviews relevant methodologic issues and applies stratified analysis methods and multivariable regression models to the studies. Develops an understanding of the underlying principles and assumptions, practical application and correct interpretation of the epidemiologic results. Provides hands-on experience on the application of epidemiologic analysis methods and presentation of the results.

**Prerequisite:** BST 83014 and EPI 63016; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**EPI 83018 OBSERVATIONAL DESIGNS FOR CLINICAL RESEARCH 3 Credit Hours**

(Slashed with EPI 63018) Course provides students the skills to design, conduct and perform clinical epidemiology studies using an observational design. Students understand major concepts of clinical research, develop clinical research questions, and solve clinical research problems. Topics include study design, risk, causation, exposures, bias, measurement and validity and disease prognosis.

**Prerequisite:** BST 52019 and EPI 72017; and doctoral standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**EPI 83019 EXPERIMENTAL DESIGNS FOR CLINICAL RESEARCH 3 Credit Hours**

(Slashed with EPI 63019) Principles of experimental designs as they apply to clinical research and clinical trials are presented at an intermediate level. Students understand randomized control trial designs and alternative designs. Study methodology, including randomization and blinding techniques, is covered. Topics include evidence-based medicine; risk prediction and risk scores; instruments and measurement; data issues; and recruitment, retention and adherence.

**Prerequisite:** BST 52019 and EPI 72017; and doctoral standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**EPI 83020 ADVANCED EPIDEMIOLOGY AND CLINICAL RESEARCH METHODS 3 Credit Hours**

(Slashed with EPI 63020) This advanced course focuses on why particular methods, study designs or approaches are used in particular investigative scenarios in clinical research. Students develop an advanced understanding and application of epidemiology methods in clinical research.

**Prerequisite:** EPI 83018 and EPI 83019; and doctoral standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**EPI 83021 ETHICAL ISSUES IN PUBLIC HEALTH AND CLINICAL RESEARCH 3 Credit Hours**

(Slashed with EPI 63021) Introduces students to historical and contemporary ethical issues that arise during public health and clinical or biomedical research studies. Broadly covers human subjects research, the responsible conduct of research and the good clinical practice guidelines.

**Prerequisite:** EPI 72017; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture, 3 lab

**Grade Mode:** Standard Letter

## Evaluation and Measurement (EVAL)

**EVAL 45610 CLASSROOM ASSESSMENT 3 Credit Hours**

(Slashed with EVAL 55610 and EVAL 75610) Instruction on contemporary and classic theories and issues in classroom assessment. Students learn about the purposes and strengths of informal and formal, traditional and alternative approaches to classroom assessment. Students examine both selected response assessments and constructed response assessments, develop assessment frameworks, identify alternative models of assessments, evaluate best practices in classroom assessment, and discuss respective advantages and disadvantages of multiple kinds of assessments.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**EVAL 50093 VARIABLE TOPIC WORKSHOP EVALUATION AND MEASUREMENT 1-4 Credit Hours**

(Repeatable once for a maximum of 6 credit hours) (Slashed with EVAL 70093) Offered on request of school system. Enrollment limited to teachers, administrators or supervisors who are employed in sponsoring system and who are accepted to the university.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Workshop

**Contact Hours:** 1-4 other

**Grade Mode:** Satisfactory/Unsatisfactory

**EVAL 55610 CLASSROOM ASSESSMENT 3 Credit Hours**

(Slashed with EVAL 45610 and EVAL 75610) Instruction on contemporary and classic theories on and issues in classroom assessment. Students will learn about the purposes and strengths of informal and formal, traditional and alternative approaches to classroom assessment. Students will examine both selected response assessments and constructed response assessments, develop assessment frameworks, identify alternative models of assessments, evaluate best practices in classroom assessment, and discuss respective advantages and disadvantages of multiple kinds of assessments.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**EVAL 60199 THESIS I 2-6 Credit Hours**

Thesis student must register for total of 6 hours, 2 to 6 hours in a single semester distributed over several semesters if desired.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Masters Thesis

**Contact Hours:** 2-6 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**EVAL 60299 THESIS II 2 Credit Hours**

Thesis students must continue registration each semester until all degree requirements are met.

**Prerequisite:** EVAL 60199; and graduate standing.

**Schedule Type:** Masters Thesis

**Contact Hours:** 2 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**EVAL 65510 STATISTICS I FOR EDUCATIONAL SERVICES 3 Credit Hours**

(Slashed with EVAL 75510) Introduction to descriptive and inferential statistics used in educational services research: univariate and bivariate techniques (correlations and simple regression); hypothesis testing; non-parametric techniques. Ordinarily taken in graduate course sequence.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**EVAL 65511 RESEARCH IN EDUCATIONAL SERVICES 3 Credit Hours**

Introduction to purposes and practice of qualitative and quantitative research related to educational services. Emphasis on elements of doing research and using products of research to support and enhance practice. Authentic examples used as illustration.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**EVAL 65515 QUANTITATIVE RESEARCH DESIGN AND ANALYSIS 3 Credit Hours**

(Slashed with EVAL 85515) Introduction to quantitative research design and analysis in the social sciences. Students are introduced to various concerns and issues that arise in conducting quantitative research, as well as various quantitative research designs, including experimental, quasi-experimental, and non-experimental research approaches. Students will also learn to critically examine quantitative research reports in terms of reliability and validity. Additionally, students will be introduced to analysis of variance (ANOVA) procedures for analyzing quantitative research designs.

**Prerequisite:** EVAL 65510; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**EVAL 65516 QUALITATIVE RESEARCH DESIGN 3 Credit Hours**

(Slashed with EVAL 85516) Introduction to qualitative research approaches, design, and methods. Students learn about the theoretical underpinnings, nature, characteristics, and methods of qualitative research. Students are introduced to several types of qualitative research designs. They learn to engage in critical reading of qualitative research reports. Students also learn to design qualitative research studies.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**EVAL 65522 BASICS OF QUALITATIVE INTERVIEWING 1 Credit Hour**

(Slashed with EVAL 75522) Specialized interviewing methods and techniques prior to engaging in qualitative research.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 1 lecture

**Grade Mode:** Standard Letter

**EVAL 65530 PRACTITIONER INQUIRY 3 Credit Hours**

(Slashed with EVAL 85530) This course prepares students to engage in practitioner research. It provides an overview of the history, theoretical, ethical, and practical issues related to engaging in practitioner work in a variety of fields. Research design, data collection and analysis are explored and practiced. Students will critique practitioner research and design their own practitioner research study.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**EVAL 65533 INTRODUCTION TO NARRATIVE INQUIRY AND ANALYSIS 1 Credit Hour**

(Slashed with EVAL 75533) This course will introduce students to the "rapidly maturing" methodology, providing a foundational exploration of narrative techniques, the craft of good academic writing, and a practice of narrative analysis.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 1 lecture

**Grade Mode:** Standard Letter-IP

**EVAL 68710 CLASSICAL TEST THEORY 3 Credit Hours**

(Slashed with EVAL 78710) Students develop an understanding of ideas and procedures related to classical test theory sufficient for test development and meaningful interpretation of results from standardized tests and other assessments.

**Prerequisite:** EVAL 65510; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**EVAL 68711 MODERN TEST THEORY: ITEM RESPONSE THEORY 3 Credit Hours**

(Slashed with EVAL 78711) The primary objective of the course is to provide students with knowledge and skills necessary to use item response theory methods and to organize, manipulate, analyze and interpret data from IRT applications. Some of the popular IRT computer programs are introduced.

**Prerequisite:** EVAL 65510; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**EVAL 68713 MULTIVARIATE ANALYSIS IN EDUCATIONAL RESEARCH 3 Credit Hours**

(Slashed with EVAL 78713) Objectives are to enable students to select and use multivariate methods appropriately, to develop knowledge and skills necessary to conduct multivariate analyses using various statistical packages (SPSS, SAS) and to develop knowledge and skills necessary for interpreting results of multivariate analysis.

**Prerequisite:** EVAL 65510; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**EVAL 68714 FACTOR ANALYSIS IN EDUCATIONAL RESEARCH 3****Credit Hours**

(Slashed with EVAL 78714) This course develops the ability of students to conceptualize and apply the logic and techniques of factor analysis. The focus is on both exploratory and confirmatory procedures.

**Prerequisite:** EVAL 65510; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**EVAL 68715 SURVEY DESIGN AND APPLIED RESEARCH IN EDUCATION 3 Credit Hours**

Designed to be an introduction to survey design including the use of online survey applications data collection and will focus on applied quantitative research using SPSS. Open to any graduate students with appropriate prerequisite courses and an interest in applied quantitative research. The project-based course has two major components: survey construction and applied research. Students will perform tasks typically requested of data analysts, institutional researchers, and program evaluators including but not limited to SPSS data management, data transformations, descriptive and inferential analysis, and interpretation of results.

**Prerequisite:** EVAL 65510; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**EVAL 68716 STATISTICS II: ANOVA AND NONPARAMETRIC TESTS 3 Credit Hours**

The primary objective of the course is to develop students' understanding of statistical concepts and procedures sufficient for both conducting appropriate statistical analysis and interpreting the results. Authentic research examples are used throughout the course as illustrations of the different methods of conducting statistical analyses for the social sciences. This course is designed to lead students to become informed consumers of intermediate level statistical analyses, specifically analysis of variance (ANOVA) procedures, used in the social sciences.

**Prerequisite:** EVAL 65510; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**EVAL 68728 MULTIPLE REGRESSION 3 Credit Hours**

(Slashed with EVAL 78728) The purpose of this course is to develop an understanding of use of multiple regression in the social sciences and related issues, including examining assumptions, diagnosis of outliers and influential data points, determining statistical power, testing for moderation and mediation, etc. The course begins with an introduction to simple models with two predictor variables, and continues to more advanced models, including those with three or more variables, categorical predictors, interactions, non-linear models, and logistic regression.

**Prerequisite:** EVAL 65510; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**EVAL 68735 STRUCTURAL EQUATION MODELING 3 Credit Hours**

(Slashed with EVAL 78735) The purpose of this course is to develop an understanding of the basic concepts of structural equation modeling and the use of path analysis, confirmatory factor analysis, bi-factor and second-order CFA, multitrait-multimethod analysis, multiple sample-multiple group SEM, latent class model, and latent growth modeling covered under the theoretical framework of structural equation modeling. The course familiarizes students with these methods in order to (a) critique a research study with respect to the statistical analysis, and (b) select an appropriate model and be able to apply it.

**Prerequisite:** EVAL 65510 and EVAL 68728; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**EVAL 68745 HIERARCHICAL LINEAR MODELING 3 Credit Hours**

(Slashed with EVAL 78745) This course introduces methods for the analysis of multilevel data and emphasizes practical, hands-on development, analysis and interpretation of hierarchical linear models. Applications will be drawn from education, psychology, other social sciences, and health-related disciplines. Topic coverage includes development of multilevel models, estimation, hypothesis testing, statistical inference, model assessment and residual diagnostics, centering options and impact, treatment of heterogeneity, and introduction to longitudinal analysis via multilevel models.

**Prerequisite:** EVAL 65510 and EVAL 68728; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**EVAL 68791 SEMINAR IN EVALUATION AND MEASUREMENT 1-5 Credit Hours**

(Repeatable for credit) Variable topic seminar for advance study of specialized topics and areas in evaluation and measurement; emphasis on theory and research findings as related to educational practice.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Seminar

**Contact Hours:** 1-5 other

**Grade Mode:** Standard Letter

**EVAL 68795 SPECIAL TOPICS IN EVALUATION AND MEASUREMENT 1-3 Credit Hours**

(Repeatable for credit) Specific topic course offering in response to emerging student or program needs in evaluation and measurement.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 1-3 lecture

**Grade Mode:** Standard Letter

**EVAL 68796 INDIVIDUAL INVESTIGATION IN EVALUATION AND MEASUREMENT 1-3 Credit Hours**

(Repeatable for credit) Specific topic course offering in response to emerging student or program needs in evaluation and measurement.

**Prerequisite:** Doctoral standing; and special approval.

**Schedule Type:** Individual Investigation

**Contact Hours:** 1-3 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP



**EVAL 68798 RESEARCH IN EVALUATION AND MEASUREMENT 1-15 Credit Hours**

(Repeatable for credit) Students pursue an individual research project on a specific topic in evaluation and measurement with approval and under direction of instructor.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Research

**Contact Hours:** 1-15 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**EVAL 68806 HIGHER EDUCATION DATA AND INSTITUTIONAL RESEARCH 3 Credit Hours**

(Slashed with EVAL 78806) This course is designed to be an overview of institutional research function and practice, introducing students to the purpose and history of IR, IR terminology and metrics, and IR application to a variety of university areas. The target audiences for this course are: 1) students with an evaluation and measurement background who are interested in applying their skills in a higher education context and 2) students from a higher education and or student affairs background who are looking to better understand higher education data and the applied research that occurs within an institution.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**EVAL 68807 PROGRAM EVALUATION 3 Credit Hours**

(Slashed with EVAL 78807) Study of principles and techniques of evaluation and measurement, and utilization of evidence to improve teaching, learning and implementation programs.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**EVAL 70093 VARIABLE TOPIC WORKSHOP IN EVALUATION AND MEASUREMENT 1-4 Credit Hours**

(Repeatable for credit) (Slashed with EVAL 50093) Offered on request of school system. Enrollment limited to teachers, administrators or supervisors who are employed in sponsoring system and who are accepted to the university.

**Prerequisite:** Doctoral standing; and special approval.

**Schedule Type:** Workshop

**Contact Hours:** 1-4 other

**Grade Mode:** Satisfactory/Unsatisfactory

**EVAL 75510 STATISTICS I FOR EDUCATIONAL SERVICES 3 Credit Hours**

(Slashed with EVAL 65510) Introduction to descriptive and inferential statistics used in educational services research: univariate and bivariate techniques (correlations and simple regression); hypothesis testing; non-parametric techniques. Ordinarily taken in graduate course sequence.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**EVAL 75522 BASICS OF QUALITATIVE INTERVIEWING 1 Credit Hour**

(Slashed with EVAL 65522) Specialized interviewing methods and techniques prior to engaging in qualitative research.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 1 lecture

**Grade Mode:** Standard Letter

**EVAL 75533 INTRODUCTION TO NARRATIVE INQUIRY AND ANALYSIS 1 Credit Hour**

(Slashed with EVAL 65533) This course will introduce students to the "rapidly maturing" methodology, providing a foundational exploration of narrative techniques, the craft of good academic writing, and a practice of narrative analysis.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 1 lecture

**Grade Mode:** Standard Letter-IP

**EVAL 75550 INTRODUCTION TO QUANTITATIVE RESEARCH IN EDUCATION 3 Credit Hours**

This course provides an introduction to the purposes, practices, and applications of quantitative research in the field of education. The course focuses on foundational knowledge related to the methods used for conducting quantitative research, evaluating quantitative research, and using products of research to support and enhance practice. Authentic examples are used as illustrations throughout the course. The course is designed to allow students to become informed consumers of quantitative research in education.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**EVAL 75610 CLASSROOM ASSESSMENT 3 Credit Hours**

(Slashed with EVAL 45610 and EVAL 55610) Instruction on contemporary and classic theories and issues in classroom assessment. Students will learn about the purposes and strengths of informal and formal, traditional and alternative approaches to classroom assessment. Students will examine both selected response assessments and constructed response assessments, develop assessment frameworks, identify alternative models of assessments, evaluate best practices in classroom assessment, and discuss respective advantages and disadvantages of multiple kinds of assessments.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**EVAL 78710 CLASSICAL TEST THEORY 3 Credit Hours**

(Slashed with EVAL 68710) Students develop an understanding of ideas and procedures related to classical test theory sufficient for test development and meaningful interpretation of results from standardized tests and other assessments.

**Prerequisite:** EVAL 65510; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**EVAL 78711 MODERN TEST THEORY: ITEM RESPONSE THEORY 3 Credit Hours**

(Slashed with EVAL 68711) The primary objective of the course is to provide students with knowledge and skills necessary to use item response theory methods and to organize, manipulate, analyze and interpret data from IRT applications. Some of the popular IRT computer programs are introduced.

**Prerequisite:** EVAL 75510; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**EVAL 78713 MULTIVARIATE ANALYSIS IN EDUCATIONAL RESEARCH 3 Credit Hours**

(Slashed with EVAL 68713) Objectives are to enable students to select and use multivariate methods appropriately, to develop knowledge and skills necessary to conduct multivariate analyses using various statistical packages (SPSS, SAS) and to develop knowledge and skills necessary for interpreting results of multivariate analysis.

**Prerequisite:** EVAL 75510; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**EVAL 78714 FACTOR ANALYSIS IN EDUCATIONAL RESEARCH 3 Credit Hours**

(Slashed with EVAL 68714) This course develops the ability of students to conceptualize and apply the logic and techniques of factor analysis. The focus is on both exploratory and confirmatory procedures.

**Prerequisite:** EVAL 75510; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**EVAL 78715 SURVEY DESIGN AND APPLIED RESEARCH IN EDUCATION 3 Credit Hours**

Designed to be an introduction to survey design including the use of online survey applications data collection and will focus on applied quantitative research using SPSS. Open to any graduate students with appropriate prerequisite courses and an interest in applied quantitative research. The project-based course has two major components: survey construction and applied research. Students will perform tasks typically requested of data analysts, institutional researchers, and program evaluators including but not limited to SPSS data management, data transformations, descriptive and inferential analysis, and interpretation of results.

**Prerequisite:** EVAL 65510 or EVAL 75510; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**EVAL 78716 STATISTICS II: ANOVA AND NONPARAMETRIC TESTS 3 Credit Hours**

(Slashed with EVAL 68716) The primary objective of the course is to develop students' understanding of statistical concepts and procedures sufficient for both conducting appropriate statistical analysis and interpreting the results. Authentic research examples are used throughout the course as illustrations of the different methods of conducting statistical analyses for the social sciences. This course is designed to lead students to become informed consumers of intermediate level statistical analyses, specifically analysis of variance (ANOVA) procedures, used in the social sciences.

**Prerequisite:** EVAL 65510 or EVAL 75510; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**EVAL 78728 MULTIPLE REGRESSION 3 Credit Hours**

(Slashed with EVAL 68728) The purpose of this course is to develop an understanding of use of multiple regression in the social sciences and related issues, including examining assumptions, diagnosis of outliers and influential data points, determining statistical power, testing for moderation and mediation, etc. The course begins with an introduction to simple models with two predictor variables, and continues to more advanced models, including those with three or more variables, categorical predictors, interactions, non-linear models, and logistic regression.

**Prerequisite:** EVAL 75510; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**EVAL 78735 STRUCTURAL EQUATION MODELING 3 Credit Hours**

(Slashed with EVAL 68735) The purpose of this course is to develop an understanding of the basic concepts of structural equation modeling and the use of path analysis, confirmatory factor analysis, bi-factor and second-order CFA, multitrait-multimethod analysis, multiple sample and multiple group SEM, latent class model, and latent growth modeling covered under the theoretical framework of structural equation modeling. The course familiarizes students with these methods in order to (a) critique a research study with respect to the statistical analysis, and (b) select an appropriate model and be able to apply it.

**Prerequisite:** EVAL 75510 and EVAL 78728; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**EVAL 78745 HIERARCHICAL LINEAR MODELING 3 Credit Hours**

(Slashed with EVAL 68745) This course introduces methods for the analysis of multilevel data and emphasizes practical, hands-on development, analysis and interpretation of hierarchical linear models. Applications will be drawn from education, psychology, other social sciences, and health-related disciplines. Topic coverage includes development of multilevel models, estimation, hypothesis testing, statistical inference, model assessment and residual diagnostics, centering options and impact, treatment of heterogeneity, and introduction to longitudinal analysis via multilevel models.

**Prerequisite:** EVAL 75510 and EVAL 78728; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**EVAL 78806 HIGHER EDUCATION DATA AND INSTITUTIONAL RESEARCH 3 Credit Hours**

(Slashed with EVAL 68806) This course is designed to be an overview of institutional research function and practice, introducing students to the purpose and history of IR, IR terminology and metrics, and IR application to a variety of university areas. The target audiences for this course are: 1) students with an evaluation and measurement background who are interested in applying their skills in a higher education context and 2) students from a higher education and or student affairs background who are looking to better understand higher education data and the applied research that occurs within an institution.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**EVAL 78807 PROGRAM EVALUATION 3 Credit Hours**

(Slashed with EVAL 68807) Study of principles and techniques of evaluation and measurement, and utilization of evidence to improve teaching, learning and implementation programs.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**EVAL 78898 COMPARATIVE RESEARCH DESIGN 3 Credit Hours**

(Repeatable for credit) The course develops the ability of the student to conceptualize the design elements of educational research and to write results of studies.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Research

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**EVAL 80090 DOCTORAL RESIDENCY SEMINAR 3 Credit Hours**

Advanced doctoral residency seminar for students in all areas of educational foundations. Focus on current and emergent issues research and trends in education in multiple settings.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Seminar

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**EVAL 80199 DISSERTATION I 15 Credit Hours**

(Repeatable for credit) Doctoral dissertation for which registration in at least two semesters is required, first of which will be semester in which dissertation work is begun and continuing until the completion of 30 hours.

**Prerequisite:** Doctoral standing; and special approval.

**Schedule Type:** Dissertation

**Contact Hours:** 15 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**EVAL 80299 DISSERTATION II 15 Credit Hours**

(Repeatable for credit) Continuing registration required of doctoral students who have completed the initial 30 hours of dissertation and continuing until all degree requirements are met.

**Prerequisite:** EVAL 80199; and doctoral standing.

**Schedule Type:** Dissertation

**Contact Hours:** 15 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**EVAL 85515 QUANTITATIVE RESEARCH DESIGN AND ANALYSIS 3 Credit Hours**

(Slashed with EVAL 65515) Introduction to quantitative research design and analysis in the social sciences. Students are introduced to various concerns and issues that arise in conducting quantitative research, as well as various quantitative research designs, including experimental, quasi-experimental, and non-experimental research approaches. Students will also learn to critically examine quantitative research reports in terms of reliability and validity. Additionally, students will be introduced to analysis of variance (ANOVA) procedures for analyzing quantitative research designs.

**Prerequisite:** EVAL 65510 or 75510; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**EVAL 85516 QUALITATIVE RESEARCH DESIGN 3 Credit Hours**

(Slashed with EVAL 65516) Introduction to qualitative research approaches, design, and methods. Students learn about the theoretical underpinnings, nature, characteristics, and methods of qualitative research. Students are introduced to several types of qualitative research designs. They learn to engage in critical reading of qualitative research reports. Students also learn to design qualitative research studies.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**EVAL 85517 ADVANCED QUANTITATIVE RESEARCH IN EDUCATIONAL SERVICES 3 Credit Hours**

Advanced quantitative research design and application in educational services. Statistical packages of instructional strategies with methodological principles focus, theoretical models and practical application of experimental and multivariate research design.

**Prerequisite:** EVAL 85515; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**EVAL 85518 ADVANCED QUALITATIVE RESEARCH IN EDUCATIONAL SERVICES 3 Credit Hours**

Utilizes qualitative data in educational services. Applications in qualitative methodology (video techniques) and protocol analysis are applied and evaluated. Generate findings; develop applications to theory; reliability and validity considerations.

**Prerequisite:** EVAL 85516; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**EVAL 85520 MIXED METHODS RESEARCH 3 Credit Hours**

This course provides an overview of theoretical and practical issues pertaining to mixed methods research in educational settings. This overview includes the history and philosophy of mixed methods research, types of mixed methods designs, and various strategies for mixed methods data collection and analysis. Course outcomes include the development of a rationale for mixed methods approaches, critique of published mixed methods educational research, and the design and preliminary implementation of a mixed methods research project.

**Prerequisite:** EVAL 85515 and EVAL 85516; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**EVAL 85530 PRACTITIONER INQUIRY 3 Credit Hours**

(Slashed with EVAL 65530) This course prepares students to engage in practitioner research. It provides an overview of the history, theoretical, ethical, and practical issues related to engaging in practitioner work in a variety of fields. Research design, data collection and analysis are explored and practiced. Students will critique practitioner research and design their own practitioner research study.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**EVAL 85540 GROUNDED THEORY AND PHENOMENOLOGICAL RESEARCH 3 Credit Hours**

This course prepares students to engage in and argue for phenomenological research and grounded theory research. It provides an overview of the history, theoretical, and practical background related to various forms of phenomenological and grounded theory research. Research design, data collection and analysis are explored and practiced. Students will critique phenomenological and grounded theory research and design their own study or pilot a study of one of the two types.

**Prerequisite:** EVAL 85516; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**EVAL 85550 ETHNOGRAPHY AND CASE STUDY RESEARCH 3 Credit Hours**

The purpose of this course is to provide doctoral students advanced instruction in two approaches to qualitative inquiry: ethnography and case study research. In addition to providing students with an understanding of the theoretical perspectives which underlie the methodological approach to case study and ethnographic research, the course is designed to provide numerous opportunities for students to learn and practice techniques for generating, analyzing, writing-up, and using both ethnographic and case study data.

**Prerequisite:** EVAL 85516; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**EVAL 85560 CRITICAL SOCIAL RESEARCH 3 Credit Hours**

Critical social research refers to a diverse set of approaches to research that employ a critical ontological and epistemological lens. Critical researchers work from sets of assumptions about power in the social world articulated by some form of critical theory. This graduate course surveys a range of approaches to critical social research, engaging students in learning about the theoretical foundations and inquiry methods of these diverse approaches.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**EVAL 88791 SEMINAR: EVALUATION AND MEASUREMENT 1-5 Credit Hours**

(Repeatable for credit) Variable topic seminar for advance study of specialized topics and areas in evaluation and measurement; emphasis on theory and research findings as related to educational practice.

**Prerequisite:** Doctoral standing; and special approval.

**Schedule Type:** Seminar

**Contact Hours:** 1-5 other

**Grade Mode:** Standard Letter

**EVAL 88795 SPECIAL TOPICS: EVALUATION AND MEASUREMENT 1-3 Credit Hours**

(Repeatable for credit) Specific topic course offering in response to emerging student or program needs in evaluation and measurement.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 1-3 lecture

**Grade Mode:** Standard Letter

**EVAL 88796 INDIVIDUAL INVESTIGATION IN EVALUATION AND MEASUREMENT 1-3 Credit Hours**

(Repeatable for credit) Specific topic course offering in response to emerging student or program needs in evaluation and measurement.

**Prerequisite:** Doctoral standing; and special approval.

**Schedule Type:** Individual Investigation

**Contact Hours:** 1-3 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**EVAL 88798 RESEARCH IN EVALUATION AND MEASUREMENT 1-15 Credit Hours**

(Repeatable for credit) Students pursue an individual research project on a specific topic in evaluation and measurement of education with approval and under direction of instructor.

**Prerequisite:** Doctoral standing; and special approval.

**Schedule Type:** Research

**Contact Hours:** 1-15 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

## Executive Master Business Administration (EMBA)

**EMBA 67021 GLOBAL CONDITIONS AND MACROECONOMIC POLICY-EMBA 2 Credit Hours**

Analysis of forces determining economic growth, employment, inflation and the global economic environment with emphasis on understanding the business cycle and government stabilization policies.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**EMBA 67022 MANAGERIAL ECONOMICS-EMBA 2 Credit Hours**

Analysis of managerial decision-making within the economic environment with emphasis on the firm's economic decisions under different market and business conditions.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**EMBA 67031 FINANCIAL ACCOUNTING-EMBA 2 Credit Hours**

(Slashed with EMBA 77031) Study of basic principles, concepts and financial reporting for external users and the impact this will have on executive decisions.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**EMBA 67032 ACCOUNTING INFORMATION FOR EXECUTIVES-EMBA 2 Credit Hours**

(Slashed with EMBA 77032) Study of managerial decision-making through planning and control techniques. Major emphasis will be on profit planning, responsibility accounting, cost behavior patterns and application of accounting data to basic planning and control decisions.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter



**EMBA 67040 OPERATIONS MANAGEMENT-EMBA 2 Credit Hours**  
(Slashed with EMBA 77040) This course is designed for executives who have minimal experience with the production or operations phase of business. In this course they will develop skill in defining operating problems, in identifying alternative solutions and selecting the most viable solution.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**EMBA 67041 APPLIED STATISTICAL ANALYSIS-EMBA 2 Credit Hours**

(Slashed with EMBA 77041) An analysis of univariate and multivariate statistical models and the use of these models to solve practical problems. A comparison of classical and neoclassical statistical approaches is also conducted.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**EMBA 67042 GLOBALIZATION AND TECHNOLOGY STRATEGY-EMBA 2 Credit Hours**

(Slashed with EMBA 77042) This course provides managers and executives a critical understanding of various corporate, global and ethical issues related to leading and managing companies and innovations in a global world. This course integrates cross-functional aspects of business in light of geopolitical events, history, technology and strategy.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**EMBA 67043 DYNAMICS OF LEADERSHIP FOR EXECUTIVES-EMBA 2 Credit Hours**

(Slashed with EMBA 77043) Leadership skills including: team development, conflict resolution, negotiation, communications and project development. These skills along with ethical considerations are developed to enhance business decision making.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**EMBA 67051 MARKETING MANAGEMENT-EMBA 2 Credit Hours**

(Slashed with EMBA 77051) The various elements comprising marketing strategy are studied as components of integrated programs directed toward industrial and consumer markets.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**EMBA 67061 FINANCIAL PLANNING AND STRATEGY-EMBA 2 Credit Hours**

(Slashed with EMBA 77061) Problems and approaches to financial decision-making in business enterprises: controlling the allocation of funds among both current and fixed assets, assessing financial needs, and planning the mix and methods of financing.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**EMBA 67062 MONEY AND CAPITAL MARKETS-EMBA 2 Credit Hours**

Analysis and evaluation of the structure, functions and characteristics of domestic and international money and capital markets as the financing mechanism for business and non-business systems.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**EMBA 67071 HUMAN RESOURCE MANAGEMENT-EMBA 2 Credit Hours**

(Slashed with EMBA 77071) The course will deal with some of the major areas of interest to the management of human resources. Special emphasis will be placed on areas of staff planning, such as job analysis and selection.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**EMBA 67082 LEGAL AND SOCIAL IMPACT ON MANAGERIAL DECISION-MAKING-EMBA 2 Credit Hours**

(Slashed with EMBA 77082) Managerial decision-making is examined in terms of the real and potential impacts of the legal, political and social environment of business.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**EMBA 67084 MULTINATIONAL BUSINESS MANAGEMENT-EMBA 2 Credit Hours**

The course covers the management of multinational corporations, including environmental and cultural aspects and the financial marketing production and personnel functions of international operations.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**EMBA 67085 EXECUTIVE POLICIES AND PLANNING-EMBA 2 Credit Hours**

(Slashed with EMBA 77085) The course concentrates on the determination of corporate strategy in the business firm and its implementation through appropriate organizational arrangements and procedures.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**EMBA 67090 APPLIED RESEARCH DESIGN-EMBA 1 Credit Hour**

(Slashed with EMBA 77090) Introduction to research design in management. The course deals with the applications of the scientific method to solving organizational problems with a decision making context.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 1 lecture

**Grade Mode:** Standard Letter



**EMBA 67091 SEMINAR IN EXECUTIVE SKILLS DEVELOPMENT-EMBA 1,2 Credit Hour**

(Repeatable for credit) (Slashed with EMBA 77091) A series of seminars developing managerial skills such as communications, leadership teamwork project and time management etc. Offered primarily in first year of program.

**Prerequisite:** Graduate standing.

**Schedule Type:** Seminar

**Contact Hours:** 1-2 other

**Grade Mode:** Standard Letter

**EMBA 67096 APPLIED RESEARCH PROJECT-EMBA 3 Credit Hours**

(Repeatable for credit) A research project based on an applied business or economic problem will be conducted under the direct supervision of a participating faculty member in the EMBA program.

**Prerequisite:** Graduate standing.

**Schedule Type:** Individual Investigation

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**EMBA 67191 SEMINAR IN CURRENT ISSUES FOR EXECUTIVE DEVELOPMENT-EMBA 1,2 Credit Hour**

(Repeatable for credit) (Slashed with EMBA 77191) A series of seminars on current managerial, technological or economic problems facing the executive in today's society. Emphasis on global issues.

**Prerequisite:** Graduate standing.

**Schedule Type:** Seminar

**Contact Hours:** 1-2 other

**Grade Mode:** Standard Letter

**EMBA 77031 FINANCIAL ACCOUNTING-EMBA 2 Credit Hours**

(Slashed with EMBA 67031) Study of basic principles, concepts and financial reporting for external users and the impact this will have on executive decisions.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**EMBA 77032 ACCOUNTING INFORMATION FOR EXECUTIVE ACTION-EMBA 2 Credit Hours**

(Slashed with EMBA 67032) Study of managerial decision-making through planning and control techniques. Major emphasis will be on profit planning, responsibility accounting, cost behavior patterns and application of accounting data to basic planning and control decisions.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**EMBA 77040 OPERATIONS MANAGEMENT-EMBA 2 Credit Hours**

(Slashed with EMBA 67040) This course is designed for executives who have minimal experience with the production or operations phase of business. In this course they will develop skill in defining operating problems in identifying alternative solutions and selecting the most viable solution.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**EMBA 77041 APPLIED STATISTICAL ANALYSIS-EMBA 2 Credit Hours**

(Slashed with EMBA 67041) An analysis of univariate and multivariate statistical models and the use of these models to solve practical problems. A comparison of classical and neoclassical statistical approaches is also conducted.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**EMBA 77042 MANAGEMENT INFORMATION SYSTEMS-EMBA 2 Credit Hours**

(Slashed with EMBA 67042) Synthesis of computer/information technology organization behavior and functional aspects of business to enhance decision making and strategic planning skills of the manager.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**EMBA 77043 DYNAMICS OF LEADERSHIP FOR EXECUTIVE-EMBA 2 Credit Hours**

(Slashed with EMBA 67043) Leadership skills including: team development conflict resolution negotiation communications and project development. These skills along with ethical considerations are developed to enhance business decision making.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**EMBA 77051 MARKETING MANAGEMENT-EMBA 2 Credit Hours**

(Slashed with EMBA 67051) The various elements comprising marketing strategy are studied as components of integrated programs directed toward industrial and consumer markets.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**EMBA 77058 MARKETING STRATEGY AND PLANNING-EMBA 2 Credit Hours**

Focuses on integration of marketing planning into the strategic planning process. Deals mostly with marketing strategy at the level of senior management rather than operations.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**EMBA 77061 FINANCIAL PLANNING AND STRATEGY-EMBA 2 Credit Hours**

(Slashed with EMBA 67061) Problems and approaches to financial decision making in business enterprises: controlling the allocation of funds among both current and fixed assets, assessing financial needs, and planning the mix and methods of financing.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**EMBA 77070 ORGANIZATIONAL ANALYSIS AND DESIGN-EMBA 2 Credit Hours**

The course is concerned with the development of both theoretical and practical concepts related to complex work organizations.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**EMBA 77071 HUMAN RESOURCE MANAGEMENT-EMBA 2 Credit Hours**

(Slashed with EMBA 67071) The course will deal with some of the major areas of interest to the management of human resources. Special emphasis will be placed on areas of staff planning such as job analysis and selection.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**EMBA 77082 LEGAL AND SOCIAL IMPACT ON MANAGERIAL DECISION-MAKING-EMBA 2 Credit Hours**

(Slashed with EMBA 67082) Managerial decision-making is examined in terms of the real and potential impacts of the legal, political and social environment of business.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**EMBA 77085 EXECUTIVE POLICY AND PLANNING-EMBA 2 Credit Hours**

(Slashed with EMBA 67085) The course concentrates on the determination of corporate strategy in the business firm and its implementation through appropriate organizational arrangements and procedures.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**EMBA 77090 APPLIED RESEARCH DESIGN-EMBA 1 Credit Hour**

(Slashed with EMBA 67090) Introduction to research design in management. The course deals with the applications of the scientific method to solving organizational problems with a decision-making context.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 1 lecture

**Grade Mode:** Standard Letter

**EMBA 77091 SEMINAR IN EXECUTIVE SKILLS DEVELOPMENT-EMBA 1,2 Credit Hour**

(Repeatable for credit) (Slashed with EMBA 67091) A series of seminars developing managerial skills such as communications, leadership, teamwork, project and time management, etc. Offered primarily in first year of program.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Seminar

**Contact Hours:** 1-2 other

**Grade Mode:** Standard Letter

**EMBA 77096 APPLIED RESEARCH PROJECT-EMBA 3 Credit Hours**

(Repeatable for credit) A research project based on an applied business or economic problem will be conducted under the direct supervision of a participating faculty member in the EMBA program.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Individual Investigation

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**EMBA 77191 SEMINAR IN CURRENT ISSUES FOR EXECUTIVE DEVELOPMENT-EMBA 1,2 Credit Hour**

(Repeatable for credit) (Slashed with EMBA 67191) A series of seminars on current managerial, technological or economic problems facing the executive in today's society. Emphasis on global issues.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Seminar

**Contact Hours:** 1-2 other

**Grade Mode:** Standard Letter

## Exercise Physiology (EXPH)

**EXPH 50612 EXERCISE LEADERSHIP FOR THE OLDER ADULT 3 Credit Hours**

(Cross-listed with EXSC 40612) Designed to provide the students with a knowledge base in exercise leadership in the senior population and includes special populations. Students participate in the leading supervision and evaluation of the participant within the exercise program. They also assist in the collection of functional fitness data.

**Prerequisite:** Graduate standing.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 2 lecture, 2 lab

**Grade Mode:** Standard Letter

**EXPH 51000 EXERCISE IMPLEMENTATION: AN EXERCISE INTERVENTION PROGRAM 1-3 Credit Hours**

(Repeatable for credit) Students will participate in leading, supervising and developing plans for individuals who want to reduce cardiovascular risk factors through structured exercise.

**Prerequisite:** EXPH 55080; and graduate standing.

**Schedule Type:** Laboratory

**Contact Hours:** 3-9 lab

**Grade Mode:** Standard Letter

**EXPH 53093 VARIABLE TITLE WORKSHOP IN EXERCISE SCIENCE AND EXERCISE PHYSIOLOGY 1-3 Credit Hours**

(Repeatable for credit) (Cross-listed with EXSC 43093) Workshop in exercise science or physiology, topics vary.

**Prerequisite:** Graduate standing.

**Schedule Type:** Workshop

**Contact Hours:** 1-3 other

**Grade Mode:** Satisfactory/Unsatisfactory

**EXPH 55040 ADVANCED STRENGTH AND CONDITIONING 3 Credit Hours**

(Slashed with EXSC 45040) Advanced principles in strength and conditioning. Learn and understand the energy systems, anatomy, physiology and proper lifting technique of strength, speed, agility and conditioning exercises for practical application with athletes.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**EXPH 55065 EXERCISE TESTING 3 Credit Hours**

(Cross-listed with EXSC 45065) Lecture and laboratory experiences dealing with the administration and interpretation of exercise tests.

**Prerequisite:** Graduate standing.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 2 lecture, 2 lab

**Grade Mode:** Standard Letter

**EXPH 55070 ELECTROCARDIOGRAPHY FOR THE EXERCISE PHYSIOLOGIST 3 Credit Hours**

(Cross-listed with EXSC 45070) Designed to provide students with the knowledge base in electrocardiography. Students work on interpreting the 12-lead electrocardiogram with clinical case studies to enhance the knowledge base of the exercise specialist.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**EXPH 55080 PHYSIOLOGY OF EXERCISE 3 Credit Hours**

(Cross-listed with EXSC 45080) Physiological bases of muscular activity with special attention to general effects of exercise on body function. Laboratory included.

**Prerequisite:** Graduate standing.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 2 lecture, 2 lab

**Grade Mode:** Standard Letter

**EXPH 60610 PHYSIOLOGY OF AGING: IMPLICATIONS FOR HUMAN BEHAVIOR 3 Credit Hours**

(Cross-listed with EXPH 70610) Examine physiological changes which accompany advancing age. Special attention is paid to the effect of these changes on sensory motor and cognitive behavior.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**EXPH 63050 RESEARCH PROCESS IN ATHLETIC TRAINING AND EXERCISE PHYSIOLOGY 3 Credit Hours**

(Cross-listed with EXPH 73050) The research process and statistical concepts applied to athletic training and exercise physiology.

**Prerequisite:** Graduate standing.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 2 lecture, 2 lab

**Grade Mode:** Standard Letter

**EXPH 63051 QUANTITATIVE AND RESEARCH METHODS IN ATHLETIC TRAINING AND EXERCISE PHYSIOLOGY 3 Credit Hours**

(Slashed with EXPH 73051) Research design and statistical methods applied to exercise, physiology and athletic training.

**Prerequisite:** EXPH 63050; and graduate standing.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 2 lecture, 2 lab

**Grade Mode:** Standard Letter

**EXPH 63091 RESEARCH SEMINAR 1 Credit Hour**

(Repeatable for credit) (Slashed with EXPH 73091) Presentation and discussion of research by faculty and students. A total of 2 credits may be applied toward degree requirements.

**Prerequisite:** Graduate standing.

**Schedule Type:** Seminar

**Contact Hours:** 1 other

**Grade Mode:** Satisfactory/Unsatisfactory

**EXPH 63096 INDIVIDUAL INVESTIGATION IN EXERCISE PHYSIOLOGY 1-3 Credit Hours**

(Repeatable for a maximum of 6 credit hours) (Slashed with EXPH 73096) Independent study completed under the supervision of a faculty member. Written approval of supervising faculty member and School Director required prior to registration.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Individual Investigation

**Contact Hours:** 3-9 other

**Grade Mode:** Standard Letter-IP

**EXPH 63098 RESEARCH 1-15 Credit Hours**

(Repeatable for credit) Research carried out by the student under the supervision of a faculty member.

**Prerequisite:** Graduate standing.

**Schedule Type:** Research

**Contact Hours:** 1-15 other

**Grade Mode:** Standard Letter-IP

**EXPH 63193 VARIABLE TITLE WORKSHOP IN EXERCISE PHYSIOLOGY 1-3 Credit Hours**

(Repeatable for credit) Workshop in exercise physiology; topics vary. Maximum 4 hours applied to the degree.

**Prerequisite:** Graduate standing.

**Schedule Type:** Workshop

**Contact Hours:** 1-3 other

**Grade Mode:** Satisfactory/Unsatisfactory

**EXPH 63195 SPECIAL TOPICS IN EXERCISE PHYSIOLOGY 1-3 Credit Hours**

(Repeatable for credit) (Slashed with EXPH 73195) Selected and varied topics of relevance in exercise physiology.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 1-3 lecture

**Grade Mode:** Standard Letter

**EXPH 63199 THESIS I 2-6 Credit Hours**

(Repeatable for credit) Thesis students must register for a total of 6 hours, 2 to 6 hours in a semester distributed over several semesters if desired.

**Prerequisite:** Graduate standing.

**Schedule Type:** Masters Thesis

**Contact Hours:** 3 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**EXPH 63299 THESIS II 2 Credit Hours**

Thesis students must continue registration each semester until all degree requirements are met.

**Prerequisite:** EXPH 63199; and graduate standing.

**Schedule Type:** Masters Thesis

**Contact Hours:** 2 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**EXPH 65075 MUSCLE FUNCTION AND EXERCISE 3 Credit Hours**

(Slashed with EXPH 75075) Characteristics of skeletal muscle related to contraction during exercise, strength, elasticity, fatigue, and training. Electromyograph analysis of muscle function emphasized.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**EXPH 65076 ENVIRONMENTAL STRESS AND EXERCISE 3 Credit Hours**

(Slashed with EXPH 75076) Effects of heat, cold, pressure, pollution and psychological stress upon physiological responses to exercise. Lecture and laboratory.

**Prerequisite:** Graduate standing.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 2 lecture, 2 lab

**Grade Mode:** Standard Letter

**EXPH 65080 PHYSIOLOGICAL BASIS OF EXERCISE AND SPORT 3 Credit Hours**

(Slashed with EXPH 75080) Application of physiological concepts to human performance. Includes role of testing, training strength and endurance, nutritional considerations, environmental influences and, adapted exercise programs.

**Prerequisite:** Graduate standing.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 2 lecture, 2 lab

**Grade Mode:** Standard Letter

**EXPH 65081 ENERGY METABOLISM AND BODY COMPOSITION 3 Credit Hours**

(Slashed with EXPH 75081) Measurement of metabolic response to exercise. Topics include ergometry spirometry energy expenditure body composition and performance correlates of strength power and endurance.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**EXPH 65082 CARDIO-RESPIRATORY FUNCTION 3 Credit Hours**

(Slashed with EXPH 75082) Measurement of the cardiovascular-respiratory response to exercise. Includes resting spirometry, lung function during exercise, electrocardiography, blood pressure, PWC testing and exercise prescription.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**EXPH 65083 EXERCISE ENERGY METABOLISM 3 Credit Hours**

(Slashed with EXPH 75083) Energy transformations during exercise. Emphasis on controlling mechanisms that regulate the anabolic and catabolic responses to both acute and chronic exercise.

**Prerequisite:** Graduate standing.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 2 lecture, 2 lab

**Grade Mode:** Standard Letter

**EXPH 65084 CARDIOVASCULAR-RESPIRATORY DYNAMICS DURING EXERCISE 3 Credit Hours**

(Slashed with EXPH 75084) Responses of the cardiovascular and respiratory systems to exercise. Use of noninvasive methods to measure cardio-respiratory function emphasized. Lecture and laboratory.

**Prerequisite:** Graduate standing.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 2 lecture, 2 lab

**Grade Mode:** Standard Letter

**EXPH 65086 NEUROBIOLOGY OF MOVEMENT AND EXERCISE 3 Credit Hours**

(Slashed with EXPH 75086) Provide students with knowledge to understand the role of the muscular and nervous systems in human movement and exercise. Motor disorders and rehabilitation techniques will also be discussed. Lecture and laboratory.

**Prerequisite:** Graduate standing.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 2 lecture, 2 lab

**Grade Mode:** Standard Letter

**EXPH 65192 INTERNSHIP IN EXERCISE PHYSIOLOGY 1-6 Credit Hours**

(Repeatable for a maximum of 8 credit hours) (Slashed with EXPH 75192) Field experience in exercise physiology programs and testing in Kent State University adult fitness program or cooperating agencies.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Practical Experience

**Contact Hours:** 3-18 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**EXPH 70610 PHYSIOLOGY OF AGING:IMPLICATIONS FOR HUMAN BEHAVIOR 3 Credit Hours**

(Slashed with EXPH 60610) Examine physiological changes which accompany advancing age. Special attention is paid to the effect of these changes on sensory motor and cognitive behavior.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**EXPH 73050 RESEARCH PROCESSES IN ATHLETIC TRAINING AND EXERCISE PHYSIOLOGY 3 Credit Hours**

(Slashed with EXPH 63050) The research process and statistical concepts applied to athletic training and exercise physiology.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 2 lecture, 2 lab

**Grade Mode:** Standard Letter

**EXPH 73051 QUANTITATIVE AND RESEARCH METHODS IN ATHLETIC TRAINING AND EXERCISE PHYSIOLOGY 3 Credit Hours**

(Slashed with EXPH 63051) Research design and statistical methods applied to exercise physiology and athletic training.

**Prerequisite:** EXPH 73050; and doctoral standing.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 2 lecture, 2 lab

**Grade Mode:** Standard Letter

**EXPH 73091 RESEARCH SEMINAR 1 Credit Hour**

(Repeatable for credit) Presentation and discussion of research by faculty and students. A total of 2 credits may be applied toward degree requirements.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Seminar

**Contact Hours:** 1 other

**Grade Mode:** Satisfactory/Unsatisfactory

**EXPH 73096 INDIVIDUAL INVESTIGATION IN EXERCISE PHYSIOLOGY 1-3 Credit Hours**

(Repeatable for a maximum of 6 credit hours) (Slashed with EXPH 63096) Independent student completed under the supervision of a faculty member. Written approval of supervising faculty member and School Director required prior to registration.

**Prerequisite:** Doctoral standing; and special approval.

**Schedule Type:** Individual Investigation

**Contact Hours:** 1-3 other

**Grade Mode:** Standard Letter-IP

**EXPH 73195 SPECIAL TOPICS IN EXERCISE PHYSIOLOGY 1-3 Credit Hours**

(Repeatable for a maximum of 6 credit hours) (Slashed with EXPH 63195) Selected and varied topics of relevance in exercise physiology.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 1-3 lecture

**Grade Mode:** Standard Letter

**EXPH 75004 BIOMECHANICS 3 Credit Hours**

(Cross-listed with ATTR 65004) Survey of biomechanics, with particular emphasis on skeletal muscle mechanics.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**EXPH 75075 MUSCLE FUNCTION AND EXERCISE 3 Credit Hours**

(Slashed with EXPH 65075) Characteristics of skeletal muscle related to contraction during exercise, strength, elasticity, fatigue and training. Electromyograph analysis of muscle function emphasized.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**EXPH 75076 ENVIRONMENTAL STRESS AND EXERCISE 3 Credit Hours**

(Slashed with EXPH 65076) Effects of heat, cold, pressure, pollution and psychological stress upon physiological responses to exercise. Lecture and laboratory.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 2 lecture, 2 lab

**Grade Mode:** Standard Letter

**EXPH 75080 PHYSIOLOGICAL BASIS OF EXERCISE AND SPORT 3 Credit Hours**

(Slashed with EXPH 65080) Application of physiological concepts to human performance. Includes role of testing, training, strength and endurance, nutritional considerations, environmental influences, and adapted exercise programs.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 2 lecture, 2 lab

**Grade Mode:** Standard Letter

**EXPH 75081 ENERGY METABOLISM AND BODY COMPOSITION 3 Credit Hours**

(Slashed with EXPH 65081) Measurement of metabolic response to exercise. Topics include ergometry, spirometry, energy expenditure, body composition and performance correlates of strength, power and endurance.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**EXPH 75082 CARDIO-RESPIRATORY FUNCTION 3 Credit Hours**

(Cross-listed with EXPH 65082) Measurement of the cardiovascular-respiratory response to exercise. Includes resting spirometry, lung function during exercise, electrocardiography, blood pressure, PWC testing and exercise prescription.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**EXPH 75083 EXERCISE ENERGY METABOLISM 3 Credit Hours**

(Slashed with EXPH 65083) Energy transformations during exercise. Emphasis on controlling mechanisms that regulate the anabolic and catabolic responses to both acute and chronic exercise.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 2 lecture, 2 lab

**Grade Mode:** Standard Letter

**EXPH 75084 CARDIOVASCULAR-RESPIRATORY DYNAMICS DURING EXERCISE 3 Credit Hours**

(Slashed with EXPH 65084) Responses of the cardiovascular and respiratory systems to exercise. Use of noninvasive methods to measure cardio-respiratory function emphasized. Lecture and laboratory.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 2 lecture, 2 lab

**Grade Mode:** Standard Letter

**EXPH 75086 NEUROBIOLOGY OF EXERCISE AND MOVEMENT 3 Credit Hours**

(Slashed with EXPH 65086) Provides students with knowledge to understand the role of the muscular and nervous systems in human movement and exercise. Motor disorders and rehabilitation techniques will also be discussed. Lecture and laboratory.

**Prerequisite:** Graduate standing.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 2 lecture, 2 lab

**Grade Mode:** Standard Letter

**EXPH 75192 INTERNSHIP IN EXERCISE PHYSIOLOGY 1-6 Credit Hours**

(Repeatable for a maximum of 8 credit hours) (Slashed with EXPH 65192) Field experience in exercise physiology programs and testing in KSU adult fitness program or cooperating agencies.

**Prerequisite:** Doctoral standing; and special approval.

**Schedule Type:** Practical Experience

**Contact Hours:** 3-18 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP



**EXPH 83098 RESEARCH 1-15 Credit Hours**

(Repeatable for credit) Research for doctoral students.

**Prerequisite:** Doctoral standing; and special approval.

**Schedule Type:** Research

**Contact Hours:** 1-15 other

**Grade Mode:** Standard Letter-IP

**EXPH 83199 DISSERTATION I 15 Credit Hours**

(Repeatable for credit) Doctoral dissertation, for which registration in at least two semesters is required, first of which will be semester in which dissertation work is begun and continuing until the completion of 30 hours.

**Prerequisite:** Doctoral standing; and special approval.

**Schedule Type:** Dissertation

**Contact Hours:** 15 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**EXPH 83299 DISSERTATION II 15 Credit Hours**

(Repeatable for credit) Continuing registration required of doctoral students who have completed the initial 30 hours of dissertation and continuing until all degree requirements are met.

**Prerequisite:** EXPH 83199; and doctoral standing.

**Schedule Type:** Dissertation

**Contact Hours:** 15 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

## Exercise Science (EXSC)

**EXSC 15010 INTRODUCTION TO EXERCISE SCIENCE 2 Credit Hours**

Introduction to the discipline of exercise science, including the history of the field, current position stands of the American College of Sports Medicine, the responsibilities and roles of the exercise physiologist and the current trends in exercise science.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**EXSC 23093 VARIABLE TITLE WORKSHOP IN EXERCISE SCIENCE****1-3 Credit Hours**

(Repeatable for credit) Workshop to develop mastery and application of knowledge and skills that address issues in exercise science; topics vary. Satisfactory/unsatisfactory (S/U) graded.

**Prerequisite:** None.

**Schedule Type:** Workshop

**Contact Hours:** 1-3 other

**Grade Mode:** Satisfactory/Unsatisfactory

**EXSC 25057 HUMAN ANATOMY AND PHYSIOLOGY I (KBS) (KLAB) 4 Credit Hours**

(Cross-listed with ATTR 25057) Comprehensive examination of anatomy and physiology related to the organization of the body and basic cell and tissue types. Specific structure and function of the muscular, skeletal, integumentary, and nervous systems are addressed.

**Prerequisite:** None.

**Schedule Type:** Laboratory, Lecture, Combined Lecture and Lab

**Contact Hours:** 3 lecture, 2 lab

**Grade Mode:** Standard Letter

**Attributes:** Kent Core Basic Sciences, Kent Core Basic Sciences Lab

**EXSC 25058 HUMAN ANATOMY AND PHYSIOLOGY II (KBS) (KLAB) 4 Credit Hours**

(Cross-listed with ATTR 25058) Comprehensive examination of anatomy and physiology related to the human body under rest and exercise conditions. Specific structure and function of the metabolic, endocrine, lymphatic, digestive, urinary and reproductive systems are addressed. Advanced coverage of neurological, cardiovascular and respiratory systems are also addressed.

**Prerequisite:** ATTR 25057 or EXSC 25057 or BSCI 11010 or BSCI 21010.

**Schedule Type:** Laboratory, Lecture, Combined Lecture and Lab

**Contact Hours:** 3 lecture, 2 lab

**Grade Mode:** Standard Letter

**Attributes:** Kent Core Basic Sciences, Kent Core Basic Sciences Lab

**EXSC 35022 EXERCISE LEADERSHIP 3 Credit Hours**

Designed to provide the students with the knowledge base in exercise leadership. Topic areas and competencies using a variety of techniques in leading and demonstrating safe and effective methods of applying the fundamental principles of exercise science. The exercise leader will demonstrate all forms of group exercise, flexibility and balance training.

**Prerequisite:** None.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 2 lecture, 2 lab

**Grade Mode:** Standard Letter

**Attributes:** CTAG Exercise Science

**EXSC 35023 PROFESSIONAL CERTIFICATE PREPARATION 2 Credit Hours**

Introductory course in personal training. Covers basic exercise science, fitness evaluation risk management, health appraisal, safety and legal issues for the personal trainer. Prepares the student to take the national certification examination for personal training.

**Prerequisite:** EXSC 25057 or ATTR 25057 or BSCI 11010 or BSCI 21010; and EXSC 25058 or ATTR 25058 or BSCI 11020 or BSCI 21020.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 1 lecture, 2 lab

**Grade Mode:** Standard Letter

**EXSC 35054 BIOMECHANICS 3 Credit Hours**

(Cross-listed with ATTR 35054) Anatomical and mechanical bases of human movement. Emphasis is placed on tools and techniques for motion analysis, mechanical concepts, forces and performance analysis. Lecture and laboratory.

**Prerequisite:** ATTR 25057 or EXSC 25057 or BSCI 11010 or BSCI 21010.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 2 lecture, 2 lab

**Grade Mode:** Standard Letter

**EXSC 35068 STATISTICS FOR THE EXERCISE SCIENTIST 3 Credit Hours**

Measurement and statistics applied to physical education and exercise/sport sciences; laboratory experiences in statistics test construction and administration and evaluation.

**Prerequisite:** None.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 2 lecture, 2 lab

**Grade Mode:** Standard Letter

**EXSC 35075 EXERCISE PROGRAMMING 3 Credit Hours**

Problems and issues in developing exercise programs in institutional and commercial settings.

**Prerequisite:** ATTR 25057 or EXSC 25057 or BSCI 11010 or BSCI 21010; and ATTR 25058 or EXSC 25058 or BSCI 11020 or BSCI 21020.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 2 lecture, 2 lab

**Grade Mode:** Standard Letter

**EXSC 40612 EXERCISE LEADERSHIP FOR THE OLDER ADULT 3 Credit Hours**

(Cross-listed with EXPH 50612) Designed to provide students with a knowledge base in exercise leadership in the older adult population, including special populations. Students participate in the leading, supervision and evaluation of participants within the exercise program. The also assist in the collection of functional fitness data.

**Prerequisite:** None.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 2 lecture, 2 lab

**Grade Mode:** Standard Letter

**EXSC 41000 EXERCISE IMPLEMENTATION: AN EXERCISE INTERVENTION PROGRAM 1-3 Credit Hours**

(Repeatable for credit) Students will participate in leading, supervising and developing plans for individuals who want to reduce cardiovascular risk factors through structured exercise.

**Prerequisite:** EXSC 45080.

**Schedule Type:** Laboratory

**Contact Hours:** 3-9 other

**Grade Mode:** Standard Letter

**EXSC 43093 VARIABLE TITLED WORKSHOP IN EXERCISE SCIENCE AND EXERCISE PHYSIOLOGY 1-3 Credit Hours**

(Repeatable for credit) (Cross-listed with EXPH 53093) Workshop in exercise science, topics vary.

**Prerequisite:** None.

**Schedule Type:** Workshop

**Contact Hours:** 1-3 lecture

**Grade Mode:** Satisfactory/Unsatisfactory

**EXSC 43098 RESEARCH IN EXERCISE SCIENCE (ELR) 1-3 Credit Hours**

(Repeatable for a maximum of 12 credit hours) Research project completed under the supervision of a faculty member. Written approval of supervising faculty member and School Director required prior to registration.

**Prerequisite:** Special approval.

**Schedule Type:** Research

**Contact Hours:** 3-9 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**Attributes:** Experiential Learning Requirement

**EXSC 45040 ADVANCED STRENGTH AND CONDITIONING 3 Credit Hours**

(Cross-listed with EXPH 55040) Advanced principles in strength and conditioning. Learn and understand the energy systems, anatomy, physiology and proper lifting technique of strength, speed, agility and conditioning exercises for practical application with athletes.

**Prerequisite:** EXSC 25057 or ATTR 25057 or BSCI 11010 or BSCI 21010; and EXSC 25058 or ATTR 25058 or BSCI 11020 or BSCI 21020.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**EXSC 45065 EXERCISE TESTING 3 Credit Hours**

(Cross-listed with EXPH 55065) Lecture and laboratory experiences dealing with the administration and interpretation of exercise tests.

**Prerequisite:** ATTR 25057 or EXSC 25057 or BSCI 11010 or BSCI 21010; and ATTR 25058 or EXSC 25058 or BSCI 11020 or BSCI 21020.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 2 lecture, 2 lab

**Grade Mode:** Standard Letter

**EXSC 45070 ELECTROCARDIOGRAPHY FOR THE EXERCISE PHYSIOLOGIST 3 Credit Hours**

(Cross-listed with EXPH 55070) Designed to provide students with the knowledge base in electrocardiography. Students work on interpreting the 12-lead electrocardiogram with clinical case studies to enhance the knowledge base of the exercise specialist.

**Prerequisite:** ATTR 25057 or EXSC 25057 or BSCI 11010 or BSCI 21010; and ATTR 25058 or EXSC 25058 or BSCI 11020 or BSCI 21020.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**EXSC 45080 PHYSIOLOGY OF EXERCISE (WIC) 3 Credit Hours**

(Cross-listed with EXPH 55080) Response of the human to acute and chronic exercise with emphasis on the underlying physiological mechanisms.

**Prerequisite:** ATTR 25057 or EXSC 25057 or BSCI 11010 or BSCI 21010; and ATTR 25058 or EXSC 25058 or BSCI 11020 or BSCI 21020.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 2 lecture, 2 lab

**Grade Mode:** Standard Letter

**Attributes:** Writing Intensive Course

**EXSC 45096 INDIVIDUAL INVESTIGATION IN EXERCISE SCIENCE (ELR) 1-3 Credit Hours**

(Repeatable for a maximum of 6 credit hours) Independent study completed under the supervision of a faculty member. Written approval of supervising faculty member and school director required prior to registration.

**Prerequisite:** Special approval.

**Schedule Type:** Individual Investigation

**Contact Hours:** 3-9 other

**Grade Mode:** Standard Letter

**Attributes:** Experiential Learning Requirement

**EXSC 45480 INTERNSHIP SEMINAR IN EXERCISE SCIENCE 1 Credit Hour**

Overview of the internship possibilities that are available for the exercise science major. The American College of Sports Medicine (ACSM) certification workshops and the scope of the practice for the exercises specialist is discussed in detail.

**Prerequisite:** Special approval.

**Schedule Type:** Lecture

**Contact Hours:** 1 lecture

**Grade Mode:** Standard Letter

**EXSC 45481 SEMINAR IN EXERCISE PHYSIOLOGY 1 Credit Hour**

Provides an overview of the research possibilities and the internship possibilities that are available for the exercise science major. The Institutional Review Board, research methodology and the risks and benefits of research in the area of exercise science are discussed in detail. Also covers The American College of Sports Medicine (ACSM) certification workshops and the scope of the practice for the exercise specialist.

**Prerequisite:** Special approval.

**Schedule Type:** Lecture

**Contact Hours:** 1 lecture

**Grade Mode:** Standard Letter

**EXSC 45492 INTERNSHIP IN PHYSICAL FITNESS AND CARDIAC REHABILITATION (ELR) 1-8 Credit Hours**

(Repeatable for a maximum of 8 credit hours) Supervised experience providing practical experience in administration and operation of programs in physical fitness, health enhancement and or cardiac rehabilitation. 45 clock hours per credit hour.

**Prerequisite:** Special approval.

**Schedule Type:** Practical Experience

**Contact Hours:** 3-24 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**Attributes:** Experiential Learning Requirement

**EXSC 46095 SPECIAL TOPICS IN EXERCISE SCIENCE 1-3 Credit Hours**

(Repeatable for credit) Selected topics in exercise science dependent upon interest.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 1-3 lecture

**Grade Mode:** Standard Letter

## Fashion Design and Merchandising (FDM)

**FDM 10010 FASHION FUNDAMENTALS 3 Credit Hours**

Introduction to the global fashion industry. Analysis of the business of fashion how it is conceived marketed and sold. Overview of important resources, companies and personnel who impact the industry.

**Prerequisite:** Fashion design, fashion merchandising or pre-fashion design and merchandising major.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**FDM 10023 FASHION VISUALS 1 Credit Hour**

The study of fashion information, research sources, color theory, two-and three-dimensional design and visual presentation formats as they apply to the fashion industry.

**Prerequisite:** Fashion design or fashion merchandising major.

**Corequisite:** FDM 10024.

**Schedule Type:** Lecture

**Contact Hours:** 1 lecture

**Grade Mode:** Standard Letter

**FDM 10024 FASHION VISUALS LABORATORY 2 Credit Hours**

Laboratory applications in the study of fashion information, research sources, color theory, two-and three-dimensional design and visual presentation formats as they apply to the fashion industry.

**Prerequisite:** Fashion design or fashion merchandising major.

**Corequisite:** FDM 10023.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 1 lecture, 2 lab

**Grade Mode:** Standard Letter

**FDM 10033 FASHION FABRICS 1 Credit Hour**

Study of fabrics, focusing on differentiating between fibers, fabric construction, and fabric names. The student will study fabric properties and how they relate to fabric end usage.

**Prerequisite:** Fashion design or fashion merchandising major.

**Corequisite:** FDM 10034.

**Schedule Type:** Lecture

**Contact Hours:** 1 lecture

**Grade Mode:** Standard Letter

**FDM 10034 FASHION FABRICS LABORATORY 2 Credit Hours**

Laboratory applications in the study of fabrics, focusing on differentiating between fibers, fabric construction, and fabric names. The student will study fabric properties and how they relate to fabric end usage.

**Prerequisite:** Fashion design or fashion merchandising major.

**Corequisite:** FDM 10033.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 1 lecture, 2 lab

**Grade Mode:** Standard Letter

**FDM 10053 INTRODUCTION TO FASHION TECHNOLOGY 1 Credit Hour**

Introduces students to the fundamental concepts, procedures, and techniques used in digital imaging software and information database software. A survey of current and emerging technologies used in fashion design, merchandising and production contexts is presented.

**Prerequisite:** Fashion design or fashion merchandising major.

**Corequisite:** FDM 10054.

**Schedule Type:** Lecture

**Contact Hours:** 1 lecture

**Grade Mode:** Standard Letter

**FDM 10054 INTRODUCTION TO FASHION TECHNOLOGY LABORATORY 2 Credit Hours**

Laboratory applications of fundamental concepts, procedures, and techniques used in digital imaging software and information database software. A survey of current and emerging technologies used in fashion design, merchandising, and production contexts is presented and applied.

**Prerequisite:** Fashion design or fashion merchandising major.

**Corequisite:** FDM 10053.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 1 lecture, 2 lab

**Grade Mode:** Standard Letter

**FDM 10140 FOUNDATIONS OF FASHION DRAWING 3 Credit Hours**

Introduction to fashion drawing. Concentration on communicating through drawing the fashion figures and technical flats, accurate garment proportion and construction.

**Prerequisite:** Fashion design major.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 5 other

**Grade Mode:** Standard Letter

**FDM 15055 BASICS OF APPAREL CONSTRUCTION 3 Credit Hours**

Introduction to sewing techniques and application processes using industrial sewing machines and other related equipment in basic garment construction. Development of fundamental patternmaking skills.

**Prerequisite:** Fashion design major.

**Schedule Type:** Studio

**Contact Hours:** 6 other

**Grade Mode:** Standard Letter

**FDM 20013 HISTORY OF COSTUME 3 Credit Hours**

Chronological study and research of historic costume from the origin of clothing through the French revolutionary era, 19th and 20th century designers, and the influence on contemporary fashion.

**Prerequisite:** HIST 11050 or HIST 11051 or ARTH 22006 or ARTH 22007.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**FDM 20030 FASHION APPAREL ANALYSIS 3 Credit Hours**

Analysis and evaluation of fashion apparel; quality standards of ready-to-wear apparel and factors that influence the aesthetic and functional performance of the end product.

**Prerequisite:** FDM 10033 and FDM 10034; and fashion merchandising major.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**FDM 20050 FASHION TECHNOLOGY APPLICATIONS 3 Credit Hours**

A continuation of content related to technology within the fashion industry. Pattern manipulation, basic technical packages, garment measuring specs, print design and computerized fashion illustration is addressed with the use of industry-specific and off-the-shelf software packages.

**Prerequisite:** FDM 10053 and FDM 10054; and fashion design major.

**Schedule Type:** Studio

**Contact Hours:** 6 other

**Grade Mode:** Standard Letter

**FDM 20121 FASHION DRAWING I 3 Credit Hours**

Advanced study of design illustration techniques as applied to the fashion figure through the use of live model drawing. Concentration on fabric rendering and drape as illustrated on the fashion figure. Introduction to technical flats used for illustrating garment construction.

**Prerequisite:** FDM 10023 and FDM 10024; and FDM 10140; and fashion design major.

**Schedule Type:** Laboratory

**Contact Hours:** 6 lab

**Grade Mode:** Standard Letter

**FDM 20122 FASHION DRAWING II 3 Credit Hours**

Continued study of fashion illustration techniques through the use of Croquis books and figure layouts. Introduction to different design markets and research and how illustration reflects different markets. Instruction on stylizing according to market.

**Prerequisite:** FDM 20121.

**Schedule Type:** Laboratory

**Contact Hours:** 6 lab

**Grade Mode:** Standard Letter

**FDM 20153 FLAT PATTERN 3 Credit Hours**

Development of basic muslins and slopers. Patternmaking principles of dart manipulation and added fullness. Construction techniques for bodice, skirt, sleeve, collar, and pant variations.

**Prerequisite:** FDM 10033 and FDM 10034; and FDM 15055; and fashion design major.

**Schedule Type:** Studio

**Contact Hours:** 6 other

**Grade Mode:** Standard Letter

**FDM 20154 DRAPING 3 Credit Hours**

Development of basic garment shapes using draping techniques. Emphasis placed on torso development, contouring principles and design development on the form. Construction techniques for boned bodice garments and using knit and bias cut fabrics.

**Prerequisite:** FDM 10033 and FDM 10034; and FDM 15055; and fashion design major.

**Schedule Type:** Studio

**Contact Hours:** 6 other

**Grade Mode:** Standard Letter

**FDM 20155 MACHINE KNITTING 3 Credit Hours**

Basic machine knitting techniques, including structure and shaping on industrial handflat knitting machine. Development and analysis of knitted textiles.

**Prerequisite:** None.

**Schedule Type:** Studio

**Contact Hours:** 6 other

**Grade Mode:** Standard Letter

**FDM 20263 FASHION RETAIL INDUSTRY 3 Credit Hours**

Study of retail organizations and structures within the fashion industry. Analysis of supervision organization and operations management of fashion retail institutions.

**Prerequisite:** FDM 10010; and fashion merchandising major.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**FDM 25011 FASHION BRANDING 3 Credit Hours**

An overview of branding in the fashion industry. Analysis of strategies for creating (brand awareness), maintaining (brand management) and enhancing the strength (brand asset management) of fashion brands. Class members work individual as part of a group.

**Prerequisite:** FDM 10010; and fashion merchandising major.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**FDM 30013 FASHION AND POP CULTURE 3 Credit Hours**

An examination of the relationship between different types of design and popular culture in America and Europe in the 20th and 21st centuries.

**Prerequisite:** ARTH 22006 or ARTH 22007 or HIST 11050 or HIST 11051.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**FDM 30050 FASHION TECHNOLOGY: COMPUTER INTEGRATED TEXTILE DESIGN 3 Credit Hours**

The use of Computer Integrated Design tools to produce textile prints, wovens and knits for professional presentation scenarios.

**Prerequisite:** FDM 10053 and FDM 10054.

**Schedule Type:** Studio

**Contact Hours:** 5 other

**Grade Mode:** Standard Letter

**FDM 30083 PROFESSIONAL SEMINAR 3 Credit Hours**

Professional development strategies for fashion and related careers. Emphasis is on verbal and written communication skills.

**Prerequisite:** FDM 20030 and fashion merchandising major; and junior or senior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**FDM 30124 TECHNICAL DESIGN IN THE FASHION INDUSTRY 3 Credit Hours**

Students learn seamstitch classifications, costing, sourcing and lab testing quality assurance. Assembly-line and modular manufacturing are discussed.

**Prerequisite:** FDM 10033, FDM 10034 and FDM 20050.

**Schedule Type:** Laboratory, Lecture, Combined Lecture and Lab

**Contact Hours:** 5 other

**Grade Mode:** Standard Letter

**FDM 30132 APPAREL CONSTRUCTION FOR SPECIALTY MARKETS 1 Credit Hour**

Construction details specific to a market are researched, discussed and duplicated. Only one specialty market covered each class. Markets vary by class.

**Prerequisite:** None.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 1.5 other

**Grade Mode:** Standard Letter

**FDM 30151 ADVANCED PATTERNMAKING 3 Credit Hours**

Flat pattern assignments for advanced, complex garments. Suits, outerwear, cutsew knits will all be covered. Students will make patterns by traditional methods as well as by computer.

**Prerequisite:** FDM 20153 and FDM 20154.

**Schedule Type:** Studio

**Contact Hours:** 6 other

**Grade Mode:** Standard Letter

**FDM 30154 DIGITAL MACHINE KNITTING 3 Credit Hours**

Programming knitting and basics of operating an industrial knitting machine. Students will develop a sample book that includes industrial techniques, such as structure, shaping, jacquard, intarsia cables, etc. One group project to create a garment and one final project based on research of knit industry will be required.

**Prerequisite:** None.

**Schedule Type:** Studio

**Contact Hours:** 6 other

**Grade Mode:** Standard Letter

**FDM 30155 KNITWEAR DESIGN 3 Credit Hours**

Focus is on the design development of knitwear, learning about how to recognize and communicate knit design through graphs and stitch notation as well as what yarns, fibers and machines are appropriate. The students in this class also design knitwear collections.

**Prerequisite:** Fashion design major.

**Schedule Type:** Studio

**Contact Hours:** 5 other

**Grade Mode:** Standard Letter

**FDM 30161 FASHION DESIGN STUDIO I 6 Credit Hours**

Open fashion studio concept to support the creative process of croquis sketching and construction in the production of design work. Students explore markets, selling seasons, and specific construction techniques; and they further develop fashion design process approaches.

**Prerequisite:** FDM 20122 and FDM 20153 and FDM 20154.

**Schedule Type:** Studio

**Contact Hours:** 12 other

**Grade Mode:** Standard Letter

**FDM 30162 FASHION DESIGN STUDIO II 6 Credit Hours**

A continuation of the open fashion studio concept to support the entire creative process to produce design work. Students explore fashion markets, selling seasons, and specific construction techniques; and they further develop fashion design process approaches.

**Prerequisite:** FDM 30161 or FDM 30171 or FDM 30181.

**Schedule Type:** Studio

**Contact Hours:** 12 other

**Grade Mode:** Standard Letter

**FDM 30171 FLORENCE FASHION DESIGN STUDIO I 6 Credit Hours**

Open fashion studio concept to support the creative process of croquis sketching and construction in the production of design work. Students explore markets, selling seasons, and specific construction techniques; and they further develop fashion design process approaches. European markets and travel are incorporated.

**Prerequisite:** FDM 20122 and FDM 20153 and FDM 20154; and special approval.

**Schedule Type:** Studio

**Contact Hours:** 12 other

**Grade Mode:** Standard Letter

**FDM 30172 FLORENCE FASHION DESIGN STUDIO II 6 Credit Hours**

Continuation of the open fashion studio concept to support the entire creative process to produce design work. Students will explore fashion markets, selling seasons, and specific construction techniques; and they will further develop fashion design process approaches. Content specific to the European design experience.

**Prerequisite:** FDM 30161 or FDM 30171 or FDM 30181; and special approval.

**Schedule Type:** Studio

**Contact Hours:** 12 other

**Grade Mode:** Standard Letter

**FDM 30181 NEW YORK CITY FASHION DESIGN STUDIO I 6 Credit Hours**

Open fashion studio concept to support the creative process of croquis sketching and construction in the production of design work. Students explore markets, selling seasons, and specific construction techniques; and they further develop fashion design process approaches. New York City markets and design-specific experiences are incorporated.

**Prerequisite:** FDM 20122 and FDM 20153 and FDM 20154; and special approval.

**Schedule Type:** Studio

**Contact Hours:** 12 other

**Grade Mode:** Standard Letter



**FDM 30182 NEW YORK CITY DESIGN STUDIO II 6 Credit Hours**

Continuation of the open fashion studio concept to support the entire creative process to produce design work. Students explore fashion markets, selling seasons, and specific construction techniques; and they further develop fashion design process approaches. Content specific to the New York City fashion design experience.

**Prerequisite:** FDM 30161 or 30171 or 30181; and special approval.

**Schedule Type:** Studio

**Contact Hours:** 12 other

**Grade Mode:** Standard Letter

**FDM 30260 PRODUCT DEVELOPMENT IN THE FASHION INDUSTRY 3 Credit Hours**

Researching, planning, developing and presenting a fashion product line for an identified target market with regard to prices, styling and timing.

**Prerequisite:** FDM 20030; and fashion merchandising major.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**FDM 30262 FASHION MERCHANDISE PLANNING AND BUYING 3 Credit Hours**

Study of market sources, fashion buying techniques, assortment planning and allocation and quantitative calculations needed in the fashion industry.

**Prerequisite:** FDM 20263; and MATH 11009 or MATH 11010 or MATH 11012 or MATH 10041; and fashion merchandising major.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**FDM 35010 CONTEMPORARY FASHION DESIGNERS (WIC) 3 Credit Hours**

Examine and analyze international fashion design and designers of the 20th and 21st centuries. Focuses on the history, development and present context of fashion. Students assemble a portfolio of fashion designers studied to include their biographies, clippings of their work and design inspirations.

**Prerequisite:** FDM 20013; and fashion design major.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Writing Intensive Course

**FDM 35011 FASHION FORECASTING 3 Credit Hours**

Identifying trends to develop fashion forecasts. Interrelationships of forecasting promotion, public relations, and the fashion media will be explored.

**Prerequisite:** FDM 25011.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**FDM 35012 SUSTAINABILITY IN FASHION 3 Credit Hours**

Analysis and development of design process thinking through the lens of sustainability and socially responsibility in fashion. Readings, documentaries and lectures are discussed in class. Interdisciplinary teams create a product that supports sustainable fashion futures.

**Prerequisite:** Fashion design and fashion merchandising majors.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**FDM 35013 FASHION ACCESSORIES 3 Credit Hours**

The merchandising, promotion and sales of accessories. Materials production and resources are examined by category.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**FDM 35060 FASHION IMAGE 3 Credit Hours**

Study of fashion imagery through industry observation, analysis, and examination of fashion photo shoots and styling practices. Combines theoretical and practical approach in planning through individual and collaborative efforts resulting in a fashion industry-inspired photo shoot and styling project.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**FDM 35063 VISUAL MERCHANDISING AND DISPLAY 3 Credit Hours**

Theory and practice of merchandise presentation for the purpose of promotion and sales.

**Prerequisite:** Fashion merchandising major.

**Schedule Type:** Laboratory, Lecture

**Contact Hours:** 1 lecture, 4 lab

**Grade Mode:** Standard Letter

**FDM 35070 THE LUXURY MARKET 3 Credit Hours**

Purpose is to learn, understand, and perceive the luxury market and its parameters. Students gain an understanding of the marketing power of luxury brands and the organization of a luxury products company.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**FDM 35080 FASHION IN THE MEDIA 3 Credit Hours**

Analysis of key fashion magazines and in-depth examination of how they are created. Students learn the fundamentals of different forms of communication and the contributions editors, writers, stylists and photographers make toward the finished product. Exploration of how various media interrelate and contribute to the fashion industry is included. Different forms of writing, editing and interviewing as well as the roles of photography, design and styling are examined. Online outlets, television commentary, fashion advertising and Public Relations are discussed.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**FDM 35121 FASHION MODEL DRAWING 3 Credit Hours**

In-depth study of fashion model drawing and the illustration techniques associated with realistic and stylized depictions of the fashion form. A live fashion model will be part of each class in timed poses with instructor demonstrations and in-class drawing assignments.

**Prerequisite:** FDM 20122; and special approval.

**Schedule Type:** Studio

**Contact Hours:** 6 other

**Grade Mode:** Standard Letter

**FDM 35122 ADVANCED FASHION ILLUSTRATION TECHNIQUES 3 Credit Hours**

Focused approach to advanced fashion illustration techniques beyond the required Drawing I and II. Covers a wide variety of illustration mediums and tools, such as gouache, marker, ink and pastels, deepening skill sets and visual literacy through demonstrations and practice-based assignments.

**Prerequisite:** FDM 20122; and special approval.

**Schedule Type:** Studio

**Contact Hours:** 6 other

**Grade Mode:** Standard Letter

**FDM 35260 MERCHANDISING FOR HOME FURNISHINGS 3 Credit Hours**

Introduction to the various retail classifications of home furnishing merchandise to include furniture, floor coverings, window treatments, household linens, table tops, housewares and decorative accessories.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**FDM 35270 COMPUTER APPLICATIONS IN RETAILING 3 Credit Hours**

The application and use of the microcomputer to solve problems in assortment planning, merchandise management, trading area and site analysis, store planning, planogramming and media planning.

**Prerequisite:** FDM 20263; and MATH 10041 or MATH 11009 or MATH 11010 or MATH 11012; and fashion merchandising major.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**FDM 35280 FASHION ENTREPRENEURSHIP 3 Credit Hours**

In-depth study of entrepreneurship concepts as applied to manufacturers and retailers of apparel including product development, accounting and control merchandising and buying operation and management advertising and promotion.

**Prerequisite:** Junior or senior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**FDM 35900 FLORENCE FASHION STUDY ORIENTATION 1 Credit Hour**

Overview of Florence fashion program, the city of Florence, living and traveling in Europe as a study abroad student. Includes assistance for obtaining required documents. Students must enroll in Florence fashion program to receive credit.

**Prerequisite:** Minimum 2.500 overall GPA; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 1 lecture

**Grade Mode:** Satisfactory/Unsatisfactory

**FDM 35901 ITALIAN FASHION AND CULTURE 3 Credit Hours**

Evolution of the fashion industry in post World War II Italy. Study of the creators, design and production processes creating one of the most successful unions of commercial product and cultural expression world-wide.

**Prerequisite:** FDM 35900.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**FDM 35902 EUROPEAN FASHION MARKETING 3 Credit Hours**

Building on the information acquired in the European Fashion Marketing Seminar lectures and visits, student complete a series of assignments designed to simulate the type of work that a merchandising professional may be asked to complete.

**Corequisite:** FDM 35903.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**FDM 35903 EUROPEAN FASHION MARKETING SEMINAR 3 Credit Hours**

Taken concurrently with European Fashion Marketing and uses a European city as an extended classroom, combining various field trips to directional shopping districts, fashion houses and fashion magazines.

Only taught in European settings.

**Corequisite:** FDM 35902.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 3 lecture, 2 lab

**Grade Mode:** Standard Letter

**FDM 35904 EUROPEAN FASHION DESIGN 3 Credit Hours**

Taken concurrently with European Fashion Design Seminar and is designed to introduce couture techniques and enhance techniques of those who possess a basic to advance knowledge of sewing. Only taught in European settings.

**Corequisite:** FDM 35905.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 3 lecture, 2 lab

**Grade Mode:** Standard Letter

**FDM 35905 EUROPEAN FASHION DESIGN SEMINAR 3 Credit Hours**

Taken concurrently with European Fashion Design and uses a European city as an extended classroom, combining various field trips to directional shopping districts, fashion houses and fashion magazines.

**Corequisite:** FDM 35904.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 3 lecture, 2 lab

**Grade Mode:** Standard Letter

**FDM 40050 FASHION TECHNOLOGY:TECHSTYLELAB 3 Credit Hours**

Explores the historical and contemporary links between fashion and technology. Garments, artists, designers, institutions and projects relevant to technological explorations within the fashion context is discussed. Research and experiments conducted with the Fashion School's TechStyleLAB. Students acquire fundamental research skills for fashion technology and develop their own web presence.

**Prerequisite:** FDM 10053 and FDM 10054.

**Schedule Type:** Studio

**Contact Hours:** 5 other

**Grade Mode:** Standard Letter

**FDM 40098 RESEARCH IN FASHION DESIGN AND MERCHANDISING (ELR) 1-3 Credit Hours**

(Repeatable for credit) Research experience and investigation of a topic above the level available through coursework with an individual faculty member. This experience is designed to strengthen student's ability to synthesize different phases and methods of academic research. Students work closely with a faculty member to determine the specific nature, scope, and design of the research experience.

**Prerequisite:** Special approval.

**Schedule Type:** Research

**Contact Hours:** 3-9 other

**Grade Mode:** Standard Letter

**Attributes:** Experiential Learning Requirement

**FDM 40099 SENIOR FASHION DESIGN THESIS I (ELR) 6 Credit Hours**

Senior fashion design thesis collection is created focused on the specialties of each student. This collection is finalized, analyzed and presented in Senior Thesis II. Students engage in a formalized critical development and review process with established external fashion designers.

**Prerequisite:** FDM 30162 or FDM 30172 or FDM 30182; and fashion design majors.

**Schedule Type:** Senior Project/Honors Thesis

**Contact Hours:** 12 other

**Grade Mode:** Standard Letter

**Attributes:** Experiential Learning Requirement

**FDM 40121 FASHION PORTFOLIO I 3 Credit Hours**

Students in the course develop a professional design portfolio that will emphasize in-depth individual investigation of specific apparel markets, target customers and seasons, displaying various illustrative techniques. Croquis books, technical packets and line plans will be used.

**Prerequisite:** FDM 30161 or FDM 30171 or FDM 30181; and FDM 30162 or FDM 30172 or FDM 30182.

**Schedule Type:** Laboratory

**Contact Hours:** 6 lab

**Grade Mode:** Standard Letter

**FDM 40122 FASHION PORTFOLIO II 3 Credit Hours**

A continuation of FDM 40121. Students continue development of design portfolio that emphasizes their strengths in design and presentation. In addition, there is continued progress in croquis books and development of seasonal line plans.

**Prerequisite:** FDM 40121.

**Schedule Type:** Laboratory

**Contact Hours:** 6 lab

**Grade Mode:** Standard Letter

**FDM 40141 FASHION STUDIO III 3 Credit Hours**

Development of pattern work, specification sheets and muslins for original line. Faculty and external professional critiques.

**Prerequisite:** FDM 30161 and FDM 30162; or FDM 30171 and FDM 30172; or FDM 30181 and FDM 30182.

**Schedule Type:** Laboratory

**Contact Hours:** 6 lab

**Grade Mode:** Standard Letter

**FDM 40199 SENIOR FASHION DESIGN THESIS II (ELR) 3 Credit Hours**

Continuation of Senior Fashion Design Thesis I. Finalize senior thesis project; critical review and reflection on outcome in a short analysis. The final thesis submission will be displayed through a juried venue.

**Prerequisite:** FDM 40099.

**Schedule Type:** Senior Project/Honors Thesis

**Contact Hours:** 6 other

**Grade Mode:** Standard Letter

**Attributes:** Experiential Learning Requirement

**FDM 40270 FASHION MARKETING 3 Credit Hours**

Examination of fashion producers' and retailers' roles in fashion marketing research. Analysis of consumer motivation through research to develop sales strategies in relationship to marketing strategies.

**Prerequisite:** FDM 35011, MATH 10041 and MKTG 25010.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**FDM 40291 SEMINAR IN FASHION MERCHANDISING (WIC) 3 Credit Hours**

(Repeatable for credit) Capstone course in Fashion Merchandising.

Builds and expands on all merchandising-related coursework with the goal of integrating content and applying it to real-life scenarios through critical thinking and analysis. A coherent portfolio demonstrating student efficacy with overall program content is completed.

**Prerequisite:** FDM 30260, FDM 30262, FDM 35011 and FDM 35270.

**Schedule Type:** Seminar

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**Attributes:** Writing Intensive Course

**FDM 45012 TEXTILES AND APPAREL IN THE GLOBAL ECONOMY 3 Credit Hours**

Global perspective on the production and marketing of textiles and apparel; historical geographic and economic factors that influence the world trade in soft goods.

**Prerequisite:** FDM 30262 and 35270.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**FDM 45035 HISTORIC TEXTILES 3 Credit Hours**

(Slashed with FDM 55035) Identification and analysis of textile fabrics as the reflection of culture from ancient times to present.

**Prerequisite:** Fashion design or fashion merchandising major.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**FDM 45045 COLLABORATIVE FASHION PRODUCTION 3 Credit Hours**

Exploration of product production process from concept to a marketable product. Utilizes introductory pattern making, sewing skills, and project management to create fashion apparel products.

**Prerequisite:** Fashion design or fashion merchandising major.

**Schedule Type:** Studio

**Contact Hours:** 6 other

**Grade Mode:** Standard Letter

**FDM 45093 VARIABLE TITLE WORKSHOP-FASHION DESIGN AND MARKETING 1-3 Credit Hours**

(Repeatable for a total of 6 hours) Special fee actual cost basis.

**Prerequisite:** Special approval.

**Schedule Type:** Workshop

**Contact Hours:** 1-3 other

**Grade Mode:** Satisfactory/Unsatisfactory

**FDM 45095 SPECIAL TOPICS 1-3 Credit Hours**

(Repeatable for credit) Variable content relevant to the field of fashion.

**Prerequisite:** Permission.

**Schedule Type:** Lecture

**Contact Hours:** 1-3 lecture

**Grade Mode:** Standard Letter

**FDM 45096 INDIVIDUAL INVESTIGATION 1-3 Credit Hours**

(Repeatable for credit) Individual investigation of topic above the level available through coursework. Requires submission of and approval of project proposal prior to registration.

**Prerequisite:** Permission.

**Schedule Type:** Individual Investigation

**Contact Hours:** 1-3 other

**Grade Mode:** Standard Letter

**FDM 45192 INTERNSHIP IN FASHION MERCHANDISING (ELR) 3 Credit Hours**

Supervised practical experience in the fashion industry. Eligibility requirements available from the School of Fashion Design and Merchandising field studies coordinator.

**Prerequisite:** FDM 30083 and 30262; and fashion merchandising major; and special approval for internship site.

**Schedule Type:** Practical Experience

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**Attributes:** Experiential Learning Requirement

**FDM 45212 FASHION SHOW PRODUCTIONS 3 Credit Hours**

Analyses of fashion show formats are considered for promotion purposes. Production planning, organization and physical requirements are studied. Class produces a fashion show.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**FDM 45292 INTERNSHIP IN FASHION DESIGN (ELR) 3 Credit Hours**

Supervised practical experience in the fashion industry. Eligibility requirements available from the School of Fashion Design and Merchandising field studies coordinator.

**Prerequisite:** FDM 20122, FDM 20153 and FDM 20154; and fashion design major; and special approval for internship site.

**Schedule Type:** Practical Experience

**Contact Hours:** 9 other

**Grade Mode:** Standard Letter

**Attributes:** Experiential Learning Requirement

**FDM 45392 FIELD EXPERIENCE: FASHION STUDY TOUR (ELR) 1-3 Credit Hours**

(Repeatable for credit) Visit to domestic or foreign fashion markets, including design and fabric houses or showrooms, retail stores, buying offices and other areas of the fashion industry.

**Prerequisite:** Fashion design or fashion merchandising major; and special approval.

**Schedule Type:** Field Experience

**Contact Hours:** 12-36 other

**Grade Mode:** Satisfactory/Unsatisfactory

**Attributes:** Experiential Learning Requirement

**FDM 45492 FIELD EXPERIENCE STUDY TOUR FOR NYC STUDIO STUDENTS (ELR) 3 Credit Hours**

(Repeatable for credit) Visit to the New York fashion market including design and fabric houses or showrooms, retail stores, buying offices and other areas of the fashion industry.

**Prerequisite:** Fashion design or fashion merchandising major; and special approval.

**Schedule Type:** Field Experience

**Contact Hours:** 3 other

**Grade Mode:** Satisfactory/Unsatisfactory

**Attributes:** Experiential Learning Requirement

**FDM 45592 FIELD EXPERIENCE EUROPEAN FASHION STUDY TOUR FOR FLORENCE STUDENTS (ELR) 3 Credit Hours**

(Repeatable for credit) Visit to European fashion markets including design and fabric houses or showrooms, retail stores, buying offices and other areas of the fashion industry.

**Prerequisite:** Fashion design or fashion merchandising major.

**Schedule Type:** Field Experience

**Contact Hours:** 3 other

**Grade Mode:** Satisfactory/Unsatisfactory

**Attributes:** Experiential Learning Requirement

**FDM 55035 HISTORIC TEXTILES 3 Credit Hours**

(Slashed with FDM 45035) Identification and analysis of textile fabrics as the reflection of culture from ancient times to present.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**FDM 60010 THEORIES AS APPLIED TO THE FASHION INDUSTRY 3 Credit Hours**

Focuses on the meaning, context and intent of fashion in contemporary society. Examination of seminal theories and constructs that inform understanding and ability to address complex issues derived from the fashion industry setting.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**FDM 60011 THE FASHION INDUSTRY: A UNIFYING LENS 3 Credit Hours**

This course is designed to make connections, synthesize, and develop understanding of the fashion industry. Students will participate in informed critical discussion, written, and visual work, guided by interaction with multiple stakeholders and concluded with a final paper and presentation that identifies an area where research through practice can expand knowledge in the field.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**FDM 60020 FASHION INDUSTRY DESIGN MANAGEMENT 3 Credit Hours**

In-depth study of the relationship between creativity and efficiency in the fashion industry. Provides insight into how project managers can nurture innovation in an organizational context.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**FDM 60031 FORMS OF INQUIRY IN THE FASHION INDUSTRY 3 Credit Hours**

Critical evaluation of research, theoretical and scholarly review of articles related to the fashion industry. Learn and practice skills needed to understand and critically evaluate research, theory and scholarly works. Examine in-depth scholarly literature as applied to one topic within the fashion industry. Write and present a scholarly review of literature.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**FDM 60050 TECHSTYLELAB: DIGITAL DESIGN AND NEW MEDIA IN THE FASHION INDUSTRY 3 Credit Hours**

Exploration of the intersection of New Media and Fashion. Includes research into analog design methods and digital systems of production and the supply chain management. Topics include various research and design topics such as mass-customization, co-creation, material ecology, digital craft and future craft practices.

**Prerequisite:** Graduate standing.

**Schedule Type:** Laboratory, Lecture, Combined Lecture and Lab

**Contact Hours:** 1 lecture, 2 lab

**Grade Mode:** Standard Letter

**FDM 60092 FASHION INDUSTRY PRACTICUM 1-6 Credit Hours**

(Course is repeatable for credit) Practicum is an off-campus progressive process involving a number of specific guided experiences with a fashion agency or company. This course is intended to bridge the gap between the theoretical and abstract learning gained in the classroom with real-world concrete applications. Students will be required to produce a substantial report on an innovation.

**Prerequisite:** FDM 60011; and enrolled in the master of fashion industry studies (MFIS) degree; and graduate standing; and special approval from the graduate supervisory committee.

**Schedule Type:** Practical Experience

**Contact Hours:** 3-18 other

**Grade Mode:** Standard Letter

**FDM 60093 WORKSHOPS ON CURRENT TOPICS IN THE FASHION INDUSTRY 1-3 Credit Hours**

(Course is repeatable) Students will be encouraged to take advantage of courses that focus on professional renewal or mastery and application of knowledge and skills that address a range of problems or issues related to fashion industry practice. The workshops will be offered at our NYC, Florence, and Kent campuses.

**Prerequisite:** Graduate standing.

**Schedule Type:** Workshop

**Contact Hours:** 1-3 other

**Grade Mode:** Satisfactory/Unsatisfactory

**FDM 60098 RESEARCH PROJECT IN FASHION INDUSTRY 3 Credit Hours**

(Repeatable for credit) Research experience with an individual faculty member designed to strengthen student's ability to synthesize different phases and methods of research. Students work closely with faculty to determine the specific nature, scope and design of the research experience. Requires submission of and approval of project proposal prior to registration.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Research

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**FDM 60100 ADVANCED FASHION INDUSTRY PRACTICE 3 Credit Hours**

This capstone course is centered in research as both a practice and a process. Students will pursue case studies in which they research, interpret and aim to advance fashion industry practices. Informed by industry observation and experience, utilizing and engaging with a variety of research methods, students will document findings, analyze, reflect, and present their own pragmatic implications drawn from and applied to the fashion industry. The aim of the course is to challenge students to advance their research and analytical skills, to cross disciplinary boundaries, and to develop new and original perspectives of industry research through practice.

**Prerequisite:** FDM 60031; and enrolled in the master of fashion industry studies (MFIS) degree; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**FDM 60162 ADVANCED FASHION INDUSTRY DESIGN AND PRODUCTION 3 Credit Hours**

This process-oriented course focuses on studio investigation of complex formal and spatial constructs in apparel design and production. The course will discuss and examine a variety of current approaches including those that are interdisciplinary and utilize design thinking in a fashion industry context. Students will use methods and tools for fashion research to explore new techniques in the development of design concepts that challenge current practice. Students are encouraged to think critically about design problems and processes while seeking discoveries through experimentation, resulting in a body of work examined by critique and exhibition. Examined material includes written and visual documentation, which is then retained as the archival record of the research.

**Prerequisite:** Graduate standing; and special approval from the graduate studies coordinator.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**FDM 60199 THESIS I 2-6 Credit Hours**

(Repeatable for credit) Thesis students must register for a maximum of 6 credits, 2 to 6 credits in a single semester, distributed over several semesters if desired.

**Prerequisite:** Graduate standing; and special approval from graduate supervisory committee.

**Schedule Type:** Masters Thesis

**Contact Hours:** 2-6 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**FDM 60299 THESIS II 2 Credit Hours**

(Course is repeatable) Continuing registration required of master's students who have completed the initial 6 hours of thesis and continuing until all degree requirements are met.

**Prerequisite:** FDM 60199; and graduate standing; and special approval from the graduate supervisory committee.

**Schedule Type:** Masters Thesis

**Contact Hours:** 2 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP



**FDM 63011 VISUAL PRESENTATION IN THE FASHION INDUSTRY 3 Credit Hours**

This course explores the multiple methods of visual presentation practiced in the fashion industry through applications of digital and physical concepts. Students will examine and discuss current fashion industry approaches utilized by creative talent, merchants, and other stakeholders. Focus will be on developing visual communicators who can convey unique brand stories and complex ideas through use of various forms of media. Students will learn to establish branding and visualization of their own work and research to help promote their professional identity.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**FDM 65010 SUSTAINABLE CONCEPTS AND PRACTICES IN THE FASHION INDUSTRY 3 Credit Hours**

This course will discuss and examine the most current approaches to sustainability in fashion. The different facets, benefits or shortcomings of each approach will be analyzed with an eye to researching viable solutions to future practices in manufacturing, material selection, design and business. Course embeds practice-based approaches to sustainable development.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**FDM 65045 FASHION INDUSTRY MERCHANDISE MANAGEMENT 3 Credit Hours**

This course will discuss the overview of the merchandising process - planning, developing, and presenting merchandise lines in the fashion industry. Core merchandising concepts and principles taught in this class include merchandise performance measures, pricing mechanics, wholesale and retail pricing strategy, merchandise budgets and assortment, vendor relationships and negotiations, and merchandise replenishment management. This course will examine such concepts as applied to both manufacturers, wholesalers, and retailers of fashion merchandise.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**FDM 65055 ENTREPRENEURIAL LEADERSHIP AND SUSTAINABILITY IN THE FASHION INDUSTRY 3 Credit Hours**

This course will discuss the importance of the entrepreneurial leadership and innovation as competitive advantage in the fashion industry. Students will examine the conscious leadership concepts and principles from both small/medium enterprises and large corporations of the fashion industry. By applying conscious capitalism approach, the course will introduce more progressive and purposeful ways to advance sustainable practices to benefit all five stakeholders in the fashion industry - society, partners, investors, customers, and employees.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**FDM 65065 SUPPLY CHAIN MANAGEMENT IN THE FASHION INDUSTRY 3 Credit Hours**

This course examines supply chain within the fashion industry and basic theories and principles that guide decision-making in the supply chain. Students will learn how supply chain management can be used to gain a competitive advantage in the fashion industry, comprehend buyer-supplier relationships, supply chain transparency, product recalls, sourcing issues, and other challenges in the global fashion supply chain. Attention will be given to understanding sustainable practices and future developments within the global fashion supply chain.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**FDM 65095 FASHION INDUSTRY SPECIAL TOPICS 1-3 Credit Hours**

(Repeatable for a maximum of 6 credit hours) Variable content relevant to the field of fashion.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 1-3 lecture

**Grade Mode:** Standard Letter

**FDM 65096 INDIVIDUAL INVESTIGATION IN THE FASHION INDUSTRY 1-3 Credit Hours**

(Repeatable for credit) Individual investigation of topic above the level available through coursework. Requires submission of and approval of project proposal prior to registration.

**Prerequisite:** Graduate standing.

**Schedule Type:** Individual Investigation

**Contact Hours:** 3-9 other

**Grade Mode:** Standard Letter

## Finance (FIN)

**FIN 26051 BITCOIN AND BLOCKCHAIN TECHNOLOGY 3 Credit Hours**

Digital currencies and distributed ledger technology will completely reshape the landscape of commerce and business. Course explores this from three different perspectives: the primary and secondary markets and emergence of digital tokens; capital formation in the digital economy; and financial technology transformation via distributed ledger blockchain.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**FIN 26074 LEGAL ENVIRONMENT OF BUSINESS 3 Credit Hours**

(Equivalent to BMRT 21000) Coverage of the nature, structure and significance of the legal and regulatory areas which confront business, with special emphasis on business ethics environmental and international issues.

**Prerequisite:** Sophomore standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**FIN 26085 INTRODUCTION TO FINANCIAL MODELING 1 Credit Hour**

Introduces students to financial modeling using both basic and advanced features in Microsoft Excel. Students will learn how to create and analyze databases for portfolios and other projects. Students will learn commands for statistical analysis and financial functions.

**Prerequisite:** CIS 24053; and minimum 2.500 overall GPA.

**Schedule Type:** Lecture

**Contact Hours:** 1 lecture

**Grade Mode:** Standard Letter

**FIN 26295 SPECIAL TOPICS IN FINANCE I 1-3 Credit Hours**

(Repeatable for credit) Deals with special topics in finance; new subjects not covered in other existing courses.

**Prerequisite:** Special approval.

**Schedule Type:** Lecture

**Contact Hours:** 1-3 lecture

**Grade Mode:** Standard Letter

**FIN 36040 PERSONAL FINANCIAL PLANNING 3 Credit Hours**

Course examines basic personal financial planning and investment strategies with the goal of increasing personal financial literacy and future individual well-being. Course provides a foundation for understanding financial decisions and making informed choices. Course does not fulfill a requirement for the Finance major or minor. Students cannot earn credit toward graduation for both FIN 36040 and FIN 36063.

**Prerequisite:** Minimum 2.000 overall GPA; and junior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**FIN 36051 THE FINANCIAL SYSTEM 3 Credit Hours**

Analysis of financial markets and institutions emphasizing current issues, regulatory aspects, and management concerns. This is a fundamental course for business majors and minors.

**Prerequisite:** ACCT 23020 or ACTT 11000; and ECON 22060; and minimum 2.500 overall GPA.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**FIN 36053 BUSINESS FINANCE 3 Credit Hours**

Introductory finance course analyzing the basic financial decisions of corporations and the interface of the firm with capital markets. Students discuss stocks, bonds, the time value of money, risk versus return and the essentials of capital budgeting.

**Prerequisite:** ACCT 23020 or ACTT 11000; and ECON 22060 or HONR 21197; and ECON 22061; and minimum 2.000 overall GPA.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**FIN 36054 INTERMEDIATE CORPORATE FINANCE 3 Credit Hours**

Treatment of financial decision making processes in businesses. Overview of cost of capital, capital budgeting, capital structure, and working capital management.

**Prerequisite:** Minimum C grade in FIN 26085, FIN 36053, ENG 21011 (or HONR 10297), COMM 15000 and MATH 11010 (or MATH 10675 or MATH 10775); and minimum 2.500 overall GPA; and finance major or minor.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**FIN 36059 INTERMEDIATE INVESTMENTS 3 Credit Hours**

Discussion of factors determining the value of investment securities with attention to economic, regulatory, and global influences. Either this course or FIN 36063, but not both, can count as an elective in a College of Business Administration program.

**Prerequisite:** Minimum C grade in FIN 26085, FIN 36053, ENG 21011 (or HONR 10297), COMM 15000 and MATH 11010 (or MATH 10675 or MATH 10775); and minimum 2.500 overall GPA; and finance major or minor.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**FIN 36061 PRINCIPLES OF REAL ESTATE 3 Credit Hours**

Principles and practices of real estate, real estate laws, contractual instruments, valuation, financing and markets in commercial and residential real estate.

**Prerequisite:** FIN 36053 with a minimum C grade; and minimum overall 2.500 GPA; and finance major or minor.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**FIN 36063 INDIVIDUAL INVESTMENT STRATEGIES 3 Credit Hours**

Course examines more advanced strategies for personal investing in stocks, bonds, insurance, real estate and alternative investments. Course does not fulfill a requirement for the Finance major or minor. Students cannot earn credit toward graduation for both FIN 36040 and FIN 36063. Not open to students declared in Finance major or minor.

**Prerequisite:** Minimum 2.000 overall GPA; and junior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**FIN 36072 LAW OF COMMERCIAL TRANSACTIONS 3 Credit Hours**

Introduction to real and personal property, commercial paper, agency law, business organizations, bankruptcy, secured transactions and other related areas of business law.

**Prerequisite:** FIN 26074 or BMRT 21000; and minimum 2.500 overall GPA.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**FIN 36081 PRINCIPLES OF INSURANCE 3 Credit Hours**

Examination of insurance industry, its regulatory environment and insurance contracts. Life and health insurance as well as property and liability insurance are covered.

**Prerequisite:** FIN 36053 with a minimum C grade; and minimum 2.500 overall GPA; and finance major or minor.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**FIN 36085 ADVANCED FINANCIAL MODELING 3 Credit Hours**

Provides students experience with advanced Excel and VBA programming.

**Prerequisite:** Minimum C grade in FIN 26085, FIN 36053, ENG 21011 (or HONR 10297), COMM 15000; and MATH 11010 (or MATH 10675 or MATH 10775); minimum 2.500 overall GPA; and finance major or minor.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**FIN 36280 STUDENT MANAGED INVESTMENT FUND JUNIOR OFFICER 1 Credit Hour**

(Repeatable for credit) This course is for Junior Officers in the Student Managed Investment Fund (SMIF). It examines the issues involved in the management and investment strategies of a portfolio of financial assets. Junior Officers research prospective investments, generate reports, and make decisions to invest or liquidate. Any recommendation to buy, sell, or retain a position in a security is presented to all student team members and to the instructor. Oral presentations are required. Requires special permission from the department chair. Students in the Finance major or minor may repeat this course up to a maximum of 3 credits. Course credits count toward general electives, not major electives.

**Prerequisite:** Finance major or minor; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 1 lecture

**Grade Mode:** Standard Letter

**FIN 46054 FINANCIAL RISK MANAGEMENT 3 Credit Hours**

Understanding techniques and financial tools used in managing financial risk. Analysis of contracts (options, forwards, futures) undertaken in the context of financial regulation and ethical practices within the financial marketplace.

**Prerequisite:** FIN 36053 with a minimum C grade; and overall 2.500 overall GPA; and finance major or minor.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**FIN 46055 ADVANCED DERIVATIVE SECURITIES 3 Credit Hours**

(Slashed with FIN 56055) Comprehensive analysis of derivatives securities markets and their role in the financial system. Valuation methods, advanced hedging, arbitration techniques and the regulatory environment.

**Prerequisite:** FIN 36059; and minimum 2.500 overall GPA; and Finance major or minor.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**FIN 46056 ADVANCED FIXED INCOME MANAGEMENT 3 Credit Hours**

(Slashed with FIN 56056) Course investigates techniques and financial tools used in fixed income markets. Students analyze interest rate and bond mathematics; review the structure of debt markets; and examine the mechanics, securities, derivatives and structured products tied to the credit and debt markets.

**Prerequisite:** FIN 36051 and FIN 36059; and minimum 2.500 overall GPA; and Finance major or minor.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**FIN 46059 APPLIED FINANCIAL MANAGEMENT STRATEGIES (ELR) (WIC) 3 Credit Hours**

(Slashed with FIN 56059) Emphasis on financial policies and strategic financial decision-making with respect to both short-term and long-term financial management problems.

**Prerequisite:** FIN 36054; and MATH 10041 or MGMT 24056; and minimum 2.500 overall GPA; and Finance major.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Experiential Learning Requirement, Writing Intensive Course

**FIN 46061 REAL ESTATE FINANCE 3 Credit Hours**

(Slashed with FIN 56061) Course covers basic real estate law, project evaluation, financing strategies, investment decision making and real estate capital markets.

**Prerequisite:** FIN 36051; and FIN 36054 or FIN 36059; and 2.500 overall GPA; and Finance major or minor.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**FIN 46064 INTERNATIONAL BUSINESS FINANCE 3 Credit Hours**

(Slashed with FIN 56064) Management of the finance function of an international company, including foreign exchange exposure management, foreign investment, short term and long term capital management and international accounting and taxation.

**Prerequisite:** FIN 36053 with a minimum C grade; and minimum 2.500 overall GPA; and Finance major or minor or International Business minor.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**FIN 46067 ADVANCED PORTFOLIO ANALYSIS 3 Credit Hours**

(Slashed with FIN 56067) Examines the principles, methods, and techniques of portfolio analysis with emphasis on determination of portfolio risks and returns. The political, ethical, and global forces affecting asset risks and returns are evaluated.

**Prerequisite:** FIN 36051 and FIN 36059; and minimum 2.500 overall GPA; and Finance major or minor.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**FIN 46068 COMMERCIAL BANK MANAGEMENT 3 Credit Hours**

(Slashed with FIN 56068) Financial management techniques applied to commercial banks. Focus on management of liquidity, investment and loan portfolios and capital structure.

**Prerequisite:** FIN 36051; and FIN 36054 or FIN 36059; and minimum 2.500 overall GPA; and Finance major or minor.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**FIN 46070 ADVANCED COMMERCIAL BANK MANAGEMENT 3 Credit Hours**

(Slashed with FIN 56070) Course contains a mixture of lectures, guest speakers and case discussions regarding the banking industry. Advanced discussions of liquidity risk, interest rate risk, credit risk and solvency risk and the management of these risks. In-depth computer models for measuring and managing risks are discussed.

**Prerequisite:** FIN 46068; and minimum 2.500 overall GPA; and Finance major or minor.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**FIN 46087 INTERNATIONAL FINANCE EXPERIENCE 3 Credit Hours**

(Slashed with FIN 56087) Firsthand exposure to international businesses and organizations generally relating to business and specifically relating to finance. Includes pre-trip orientation sessions, visits to international businesses and organizations, and opportunities for cultural activities.

**Prerequisite:** ECON 22060; and minimum 2.500 overall GPA; and sophomore standing in the college of business administration; and special approval.

**Schedule Type:** Field Experience

**Contact Hours:** 9 other

**Grade Mode:** Standard Letter

**FIN 46096 INDIVIDUAL INVESTIGATION IN FINANCE 1-3 Credit Hours**

(Repeatable for credit) Opportunity for research in problem areas of interest in field of finance. Agreement of faculty member in the department must be secured prior to registering for course.

**Prerequisite:** Minimum 2.500 overall GPA; and finance major; and special approval.

**Schedule Type:** Individual Investigation

**Contact Hours:** 1-3 other

**Grade Mode:** Standard Letter

**FIN 46192 INTERNSHIP IN FINANCE (ELR) 3 Credit Hours**

(Repeatable for credit) An internship for finance majors interested in obtaining career-relevant experience. Students and employers must satisfy criteria established by the department. Students are responsible for securing employment.

**Prerequisite:** FIN 36051; and FIN 36054 or FIN 36059; and a minimum 2.500 overall GPA; and finance major; and special approval.

**Schedule Type:** Practical Experience

**Contact Hours:** 9 other

**Grade Mode:** Standard Letter

**Attributes:** Experiential Learning Requirement

**FIN 46280 STUDENT MANAGED INVESTMENT FUND SENIOR OFFICE 3 Credit Hours**

(Repeatable for credit) This course is for Senior Officers in the Student Managed Investment Fund (SMIF). It examines the issues involved in the management and investment strategies of a portfolio of financial assets. It focuses on asset allocation, portfolio monitoring and evaluation, portfolio rebalancing, and investment analysis under the supervision of the instructor. Senior Officers are responsible for leading meetings, preparing and presenting the annual report, reviewing performance, making trades, monitoring risk, providing the economic report, and ensuring a smooth flow of operations. Oral presentations are required. Requires special permission from the department chair. Students in the Finance major or minor may repeat this course for a maximum of 6 credits. Course credits count toward general electives when taken for the first time. Course credits can count toward general electives or major electives if taken for the second time.

**Prerequisite:** Finance major or minor; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**FIN 46295 SPECIAL TOPICS IN FINANCE II 1-3 Credit Hours**

(Repeatable for credit) Deal with special topics in finance. New subjects not covered in other existing courses.

**Prerequisite:** FIN 36053; and minimum 2.500 overall GPA; and finance major; and senior standing.

**Schedule Type:** Lecture

**Contact Hours:** 1-3 lecture

**Grade Mode:** Standard Letter

**FIN 56055 ADVANCED DERIVATIVE SECURITIES 3 Credit Hours**

(Slashed with FIN 46055) Comprehensive analysis of options and futures markets and their role in the financial system. Students explore valuation methods, advanced hedging, arbitration techniques and the regulatory environment.

**Prerequisite:** FIN 66060; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**FIN 56056 ADVANCED FIXED INCOME MANAGEMENT 3 Credit Hours**

(Slashed with FIN 46056) Course investigates techniques and financial tools used in fixed income markets. Students analyze interest rate and bond mathematics; review the structure of debt markets; and examine the mechanics, securities, derivatives and structured products tied to the credit and debt markets.

**Prerequisite:** FIN 66060; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**FIN 56059 APPLIED FINANCIAL MANAGEMENT STRATEGIES 3 Credit Hours**

(Slashed with FIN 46059) Emphasis on financial policies and strategic financial decision-making with respect to both short-term and long-term financial management problems.

**Prerequisite:** FIN 66060; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**FIN 56061 REAL ESTATE FINANCE 3 Credit Hours**

(Slashed with FIN 46061) Course covers basic real estate law, project evaluation, financing strategies, investment decision making and real estate capital markets.

**Prerequisite:** FIN 66060; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**FIN 56064 INTERNATIONAL BUSINESS FINANCE 3 Credit Hours**

(Slashed with FIN 46064) Management of the finance function of an international company, including foreign exchange exposure management, foreign investment, short term and long term capital management and international accounting and taxation.

**Prerequisite:** FIN 66060; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**FIN 56067 ADVANCED PORTFOLIO ANALYSIS 3 Credit Hours**

(Slashed with FIN 46067) Examines the principles, methods and techniques of portfolio analysis with emphasis on determination of portfolio risks and returns. Students evaluate political, ethical, and global forces affecting asset risks and returns.

**Prerequisite:** FIN 66060; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter



**FIN 56068 COMMERCIAL BANK MANAGEMENT 3 Credit Hours**  
(Slashed with FIN 56068) Financial management techniques applied to commercial banks. Focus on management of liquidity, investment and loan portfolios and capital structure.

**Prerequisite:** FIN 66060; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**FIN 56070 ADVANCED COMMERCIAL BANK MANAGEMENT 3 Credit Hours**

(Slashed with FIN 46070) Course contains a mixture of lectures, guest speakers and case discussions regarding the banking industry. Advanced discussions of liquidity risk, interest rate risk, credit risk and solvency risk and the management of these risks. In-depth computer models for measuring and managing risks are discussed.

**Prerequisite:** FIN 66060; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**FIN 56087 INTERNATIONAL FINANCE EXPERIENCE 3 Credit Hours**

(Slashed with FIN 46087) Firsthand exposure to international businesses and organizations generally relating to business and specifically relating to finance. Includes pre-trip orientation sessions, visits to international businesses and organizations, and opportunities for cultural activities.

**Prerequisite:** Graduate standing in the college of business administration; and special approval.

**Schedule Type:** Field Experience

**Contact Hours:** 9 other

**Grade Mode:** Standard Letter

**FIN 56280 STUDENT-MANAGED INVESTMENT FUND DIRECTOR 3 Credit Hours**

Course examines the issues involved in the management and investment strategies of a live portfolio of financial assets. Students study asset allocation, portfolio monitoring and evaluation, portfolio rebalancing and investment analysis under the supervision of the instructor. Written and oral presentations are required.

**Prerequisite:** FIN 66060; and graduate standing; and special approval from the department chair.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**FIN 66050 LAW AND ETHICS 2 Credit Hours**

This course is an overview of laws and regulations with related ethical impacts affecting business management.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**FIN 66060 MANAGERIAL FINANCE 2 Credit Hours**

Study of managerial decisions of the firm from a financial point of view. Topics include valuation, project analysis, and sources and uses of funds.

**Prerequisite:** ACCT 63037, ACCT 63038 and ECON 62021; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**FIN 66061 FINANCIAL MANAGEMENT I 3 Credit Hours**

Study of financial decision-making processes within a firm. Emphasis on applications and strategic planning in investment, financing, dividend and working capital decisions.

**Prerequisite:** ACCT 63037 and ACCT 63038; and ECON 62021; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**FIN 86061 THEORIES OF FINANCIAL DECISION-MAKING 3 Credit Hours**

A study of optimal investment decisions under conditions of certainty and uncertainty.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**FIN 86062 RESEARCH METHODS IN CORPORATE FINANCE 3 Credit Hours**

A study of the theory and empirical evidence from a global perspective regarding corporate financial management.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**FIN 86064 RESEARCH METHODS IN DERIVATIVES 3 Credit Hours**

A study of the theory and empirical evidence from a global perspective regarding derivative securities.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**FIN 86066 RESEARCH METHODS INVESTMENTS 3 Credit Hours**

A study of the theory and empirical evidence from a global perspective regarding investment analysis, valuation and portfolio selection.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**FIN 86098 RESEARCH TOPICS IN FINANCE 3 Credit Hours**

A study of the theory and empirical evidence from a global perspective regarding a topic of the faculty member's expertise.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Research

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

## French (FR)

**FR 13201 ELEMENTARY FRENCH I 4 Credit Hours**

An introduction to the French language in the context of Francophone cultures.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 4 lecture

**Grade Mode:** Standard Letter



**FR 13202 ELEMENTARY FRENCH II 4 Credit Hours**

A continuation of the introduction to the French language in the context of Francophone cultures.

**Prerequisite:** FR 13201.

**Schedule Type:** Lecture

**Contact Hours:** 4 lecture

**Grade Mode:** Standard Letter

**FR 23201 INTERMEDIATE FRENCH I 3 Credit Hours**

Continued development of speaking, listening, reading and writing skills using a variety of cultural materials.

**Prerequisite:** FR 13202.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**FR 23202 INTERMEDIATE FRENCH II 3 Credit Hours**

Continuation of FR 23201.

**Prerequisite:** FR 23201.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**FR 33095 SELECTED TOPICS IN FRENCH 3 Credit Hours**

(Repeatable for a maximum of 9 credit hours) Topic to be announced in the schedule of classes.

**Prerequisite:** FR 33211.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**FR 33211 FRENCH CONVERSATION 3 Credit Hours**

A course designed to enhance students' oral proficiency through instruction in facilitating conversation and the discussion of culture-based texts.

**Prerequisite:** FR 23202.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**FR 33212 FRENCH COMPOSITION 3 Credit Hours**

A course designed to develop writing and reading skills, and in particular to prepare students to read and write about French literature.

**Prerequisite:** FR 23202; and special approval.

**Corequisite:** FR 33214.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**FR 33214 FRENCH COMPOSITION EXTENDED 2 Credit Hours**

Designed to develop writing and reading skills, and in particular to prepare students to read and write about French literature.

**Prerequisite:** FR 23202; and special approval.

**Corequisite:** FR 33212.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**FR 33215 FRENCH PHONETICS AND DICTION 3 Credit Hours**

Study of sounds of French language and their relation to spelling; application of international phonetic alphabet to French. Study augmented by recordings.

**Prerequisite:** FR 23202.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**FR 33231 TRANSLATION PRACTICE: FRENCH 1 Credit Hour**

Translation practice with French texts using principles and techniques learned in the lecture class. To be taken concurrently with TRST 30230.

**Corequisite:** TRST 30230.

**Schedule Type:** Lecture

**Contact Hours:** 1 lecture

**Grade Mode:** Standard Letter

**FR 33240 CONVERSATION FOR BUSINESS AND SPECIAL PURPOSES: FRENCH 3 Credit Hours**

Introduction to the special vocabulary of business and other special subject areas; introduces the concept of language for special purposes and emphasizes the use of special vocabulary in conversations in business and other settings.

**Prerequisite:** FR 33211.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**FR 33335 INTRODUCTION TO FRENCH THEATRE (ELR) (WIC) 3 Credit Hours**

Evolution of French dramatic literature from the middle ages to the present. Readings of representative works with lectures analyses. In French.

**Prerequisite:** FR 33212.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Experiential Learning Requirement, Writing Intensive Course

**FR 33336 INTRODUCTION TO FRENCH POETRY (ELR) (WIC) 3 Credit Hours**

Evolution of French poetry from the middle ages to the present. Readings of representative works with lectures analyses. In French.

**Prerequisite:** FR 33212.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Experiential Learning Requirement, Writing Intensive Course

**FR 33337 INTRODUCTION TO FRENCH LITERARY PROSE (ELR) (WIC) 3 Credit Hours**

Masterpieces of French literary prose from the seventeenth century to the present. Readings of representative major works, lectures, analyses. In French. This course may be used to satisfy the WIC graduation requirement with approval of major department.

**Prerequisite:** FR 33212 and FR 33214 or permission.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Experiential Learning Requirement, Writing Intensive Course

**FR 33421 FRENCH CIVILIZATION 3 Credit Hours**

A survey of French history and culture from its beginnings to World War II. Taught in French.

**Prerequisite:** FR 33212.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**FR 43091 FRENCH SEMINAR 3 Credit Hours**

(Repeatable for credit) (Slashed with FR 53091) Topic to be announced.

**Prerequisite:** One course from FR 33335 or FR 33336 or FR 33337.

**Schedule Type:** Seminar

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**FR 43093 VARIABLE TITLE WORKSHOP IN FRENCH 1-6 Credit Hours**

(Repeatable for credit) Workshops individually designed to provide instruction and training in specific areas of French studies.

**Prerequisite:** Special approval.

**Schedule Type:** Workshop

**Contact Hours:** 1-6 other

**Grade Mode:** Satisfactory/Unsatisfactory

**FR 43096 INDIVIDUAL INVESTIGATION 1-3 Credit Hours**

(Repeatable for a maximum of 6 credit hours) Allows the advanced, serious student to carry out research study project on French literature, language or culture. Prior approval of supervising faculty members department required.

**Prerequisite:** Special approval.

**Schedule Type:** Individual Investigation

**Contact Hours:** 1-3 other

**Grade Mode:** Standard Letter-IP

**FR 43213 FRENCH COMPOSITION-ADVANCED 3 Credit Hours**

(Slashed with FR 53213) French stylistics developed by analyses of literary extracts and practice in written expression.

**Prerequisite:** FR 33335 or FR 33336 or FR 33337 or FR 33421.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**FR 43216 CONTEMPORARY FRENCH CULTURE 3 Credit Hours**

(Slashed with FR 53216) A study of selected sociological, political, cultural or economic issues in the contemporary Francophone world.

**Prerequisite:** FR 33421; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**FR 43230 ADVANCED TRANSLATION PRACTICE: FRENCH (WIC) 3 Credit Hours**

Theory and practice course that discusses translation theory and emphasizes French-to-English translation of selected texts in business, technology, medicine and law.

**Prerequisite:** FR 33231.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Writing Intensive Course

**FR 43240 BUSINESS AND SPECIAL TEXTS: FRENCH (ELR) 3 Credit Hours**

Survey of the typical text types of business in the French culture and language. Practice sessions focus on reading and understanding specialized texts and on the translation and composition of selected special texts in French.

**Prerequisite:** FR 33212.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Experiential Learning Requirement

**FR 43368 THE TWENTIETH-CENTURY FRENCH NOVEL 3 Credit Hours**

Studies of selected 20th century French novels, with detailed study of the novel of one or several major writers or movements.

**Prerequisite:** 6 semester hours from the 33330-level.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**FR 43369 TWENTIETH-CENTURY FRENCH POETRY 3 Credit Hours**

(Slashed with FR 53369) A study of selected poetry of Apollinaire, Breton, Mansour, Eluard, Michaux, Char, Reverdy, Ponge, Guillevic, Jabes, Bonnefoy, Dupin, Albiach and others. Emphasis is placed on the relationship between poetry and the visual arts in the 20th century.

**Prerequisite:** 6 semester hours from the FR 33330-level.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**FR 43370 THE TWENTIETH CENTURY FRENCH THEATRE 3 Credit Hours**

(Slashed with FR 53370) Studies in French drama since 1900.

**Prerequisite:** 6 semester hours from the 33330-level.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**FR 53091 FRENCH SEMINAR 3 Credit Hours**

(Repeatable for credit) (Slashed with FR 43091) Topic to be announced.

**Prerequisite:** Graduate standing.

**Schedule Type:** Seminar

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**FR 53213 FRENCH COMPOSITION-ADVANCED 3 Credit Hours**

French stylistics developed through analyses of literary extracts and practice in written expression.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**FR 53216 CONTEMPORARY FRENCH CULTURE 3 Credit Hours**

(Slashed with FR 43216) A study of selected sociological, political, cultural or economic issues in the contemporary Francophone world.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**FR 53368 20TH-CENTURY FRENCH NOVEL 3 Credit Hours**

Study of selected 20th-century French novels, with emphasis on one or several major writers or movements.

**Prerequisite:** 6 hours from 33330-level; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**FR 53369 20TH-CENTURY FRENCH POETRY 3 Credit Hours**

(Slashed with FR 43369) A study of selected poetry of Apollinaire, Breton, Mansour, Eluard, Michaux, Char, Reverdy, Ponge, Guillevic, Jabes, Bonnefoy, Dupin, Alpiach and others. Emphasis is placed on the relationship between poetry and the visual arts in the 20th century.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**FR 53370 20TH-CENTURY FRENCH THEATRE 3 Credit Hours**

(Slashed with FR 43370) Studies in French drama since 1900.

**Prerequisite:** 6 hours from 33330-level; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**FR 63010 THE PRACTICE OF FRENCH TRANSLATION 2 Credit Hours**

Students apply linguistic and communication science concepts to case studies of language mediation.

**Prerequisite:** Graduate standing.

**Corequisite:** TRST 60010.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**FR 63093 VARIABLE TITLE WORKSHOP IN FRENCH 1-6 Credit Hours**

(Repeatable for credit) Workshops individually designed to provide instruction and training in specific areas of French studies.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Workshop

**Contact Hours:** 1-6 other

**Grade Mode:** Satisfactory/Unsatisfactory

**FR 63098 RESEARCH 1-15 Credit Hours**

(Repeatable for credit) Research or individual investigation for master's level graduate students. Credits earned applied toward degree requirements if department approves.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Research

**Contact Hours:** 1-15 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**FR 63199 THESIS I 2-6 Credit Hours**

Thesis students must register for a total of 6 hours, 2 to 6 hours in a single semester distributed over several semesters if desired.

**Prerequisite:** Graduate standing.

**Schedule Type:** Masters Thesis

**Contact Hours:** 2-6 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**FR 63201 READING FRENCH FOR GRADUATE STUDENTS 4 Credit Hours**

Introduction to the fundamentals of French grammar for graduate students. Practice in reading and translation.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 4 lecture

**Grade Mode:** Standard Letter

**FR 63240 LITERARY AND CULTURAL TRANSLATION 3 Credit Hours**

Translation of documents from a variety of literary and cultural sources, including literature, expository and journalistic prose, scholarly treatises and essays. Translation into French will also be emphasized.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**FR 63250 COMMERCIAL, LEGAL AND DIPLOMATIC TRANSLATION 3 Credit Hours**

An introduction to methods and resources for the translation of commercial, economic, financial, legal, diplomatic and governmental documents.

**Prerequisite:** TRST 60010; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**FR 63251 SCIENTIFIC, TECHNICAL AND MEDICAL TRANSLATION 3 Credit Hours**

An introduction to methods and resources for the translation of scientific, technical, industrial and medical documents.

**Prerequisite:** TRST 60010; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**FR 63299 THESIS II 2 Credit Hours**

Thesis students must continue registration each semester until all degree requirements are met.

**Prerequisite:** FR 63199; and graduate standing.

**Schedule Type:** Masters Thesis

**Contact Hours:** 2 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**FR 63979 CASE STUDY IN TRANSLATION 3 Credit Hours**

Students will be responsible for a major translation and a terminology glossary as well as a critical analysis of the source text, the problems encountered during the translation process and the strategies used to solve them.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Satisfactory/Unsatisfactory

## General Medicine (GMD)

**GMD 80121 PHYSICAL ASSESSMENT AND DIAGNOSIS 3 Credit Hours**

Physiology and physical assessment are coordinated to allow students to integrate the underlying physiologic processes with physical diagnostic findings. Physiologic is a study of the basic concepts of normal organ and organ system function. Emphasis is placed on regulatory functions of each organ or system as well as the contribution of each to the whole body homeostasis. Physical diagnosis combines the patient's symptoms and signs to arrive at a diagnosis of disease. Focus is on total body examination using the traditional processes of inspection, palpation, percussion and auscultation.

**Prerequisite:** Student must be enrolled in the Podiatric Medicine program.

**Schedule Type:** Laboratory, Lecture

**Contact Hours:** .73 lecture, 2.27 lab

**Grade Mode:** Standard Letter

**GMD 80314 NEUROLOGY 2 Credit Hours**

A comprehensive study of neurological diseases that are pertinent to treatment of the podiatric patient. Includes etiologies, diagnosis and treatment of the neurologic diseases.

**Prerequisite:** Student must be enrolled in the Podiatric Medicine program.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**GMD 80315 DERMATOLOGY 2 Credit Hours**

Series of lectures on dermatologic manifestations of systemic diseases. Includes the etiology, diagnosis, treatment and management of dermatologic disorders.

**Prerequisite:** Student must be enrolled in the Podiatric Medicine program.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**GMD 80316 MEDICINE I 4 Credit Hours**

The podiatric physician is an integral part of the medical team. The podiatric physician must be able to recognize systemic medical problems that manifest in the lower extremity and interface with other health care professionals for optimal Patient care. The podiatric medical/surgical resident must be able to diagnose and treat all medical diseases under the direction of an attending physician in each individual specialty, as does any other medical resident in post graduate training. Medicine GMD 80316 and GMD 80326 are divided into 8 blocks of internal medicine specialties including cardiovascular/pulmonary medicine, endocrinology, hematology/oncology, nephrology, infectious disease, rheumatology/immunology, gastrointestinal medicine, and emergency medicine. GMD 80316 emphasizes Cardiovascular/pulmonary medicine, endocrinology, infectious disease, and rheumatology/immunology. This course prepares podiatric medical students to enter clinical training experiences in the internal medicine specialties. The course emphasizes concepts and integrates knowledge from traditional science disciplines in the context of clinical application.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 4 lecture

**Grade Mode:** Standard Letter

**GMD 80326 MEDICINE II 4 Credit Hours**

The podiatric physician is an integral part of the medical team. The podiatric physician must be able to recognize systemic medical problems that manifest in the lower extremity and interface with other health care professionals for optimal Patient care. The podiatric medical/surgical resident must be able to diagnose and treat all medical diseases under the direction of an attending physician in each individual specialty, as does any other medical resident in post graduate training. Medicine GMD 80316 and GMD 80326 are divided into 8 blocks of internal medicine specialties including cardiovascular/pulmonary medicine, endocrinology, hematology/oncology, nephrology, infectious disease, rheumatology/immunology, gastrointestinal medicine, and emergency medicine. GMD 80326 emphasizes emergency medicine, Nephrology, Hematology/Oncology, and Gastrointestinal medicine. This course prepares podiatric medical students to enter clinical training experiences in the internal medicine specialties. The course emphasizes concepts and integrates knowledge from traditional science disciplines in the context of clinical application.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 4 lecture

**Grade Mode:** Standard Letter

**GMD 80327 BEHAVIORAL MEDICINE 1 Credit Hour**

Behavioral medicine is a series of lectures on major topics in the area including mood and anxiety disorders, alcoholism, substance abuse, psychoses and pain management. The presentations relate the relevance to the practice of podiatry.

**Prerequisite:** Student must be enrolled in the Podiatric Medicine program.

**Schedule Type:** Lecture

**Contact Hours:** 1 lecture

**Grade Mode:** Standard Letter

**GMD 80328 WOMEN'S HEALTH 1 Credit Hour**

Seminar covering important areas unique to women including pregnancy, contraception, infertility, cardiovascular health, osteoporosis and menopause.

**Prerequisite:** Student must be enrolled in the Podiatric Medicine program.

**Schedule Type:** Lecture

**Contact Hours:** 1 lecture

**Grade Mode:** Satisfactory/Unsatisfactory

## Geography (GEOG)

**GEOG 10160 INTRODUCTION TO GEOGRAPHY 3 Credit Hours**

A broad introduction to the study of geographic patterns on Earth. Course describes and explains spatial patterns of human activity and environmental processes, as well as the interaction between these two realms. Topics include weather, climate, landforms, human-environment interactions, population, culture, economy and politics.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**GEOG 16001 SOIL AND HORTICULTURAL MANAGEMENT 3 Credit Hours**

Course provides students with an understanding of the relationship of soil, nutrients and fertilizers. Students understand how to properly plant trees, shrubs and flowers.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**GEOG 17063 WORLD GEOGRAPHY (DIVG) (KSS) 3 Credit Hours**

An overview of the differences and similarities within and between regions of the world. Students study the impacts of spatial processes as they operate at regional, global and local scales. Course emphasizes the effects of globalization on culture, economies, geopolitical relationships, population and the environment.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Diversity Global, Kent Core Social Sciences, TAG Social and Behavioral Sciences, Transfer Module Social Sciences

**GEOG 17064 GEOGRAPHY OF THE UNITED STATES AND CANADA (DIVD) (KSS) 3 Credit Hours**

An overview of the differences and similarities within and between regions of the United States and Canada. Course focuses on social, economic, settlement and environmental patterns and processes.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Diversity Domestic, Kent Core Social Sciences, Transfer Module Social Sciences

**GEOG 20195 SPECIAL TOPICS IN GEOGRAPHY 1-3 Credit Hours**

(Repeatable for credit) Course explores emerging topics in geography not covered in other existing courses. Topics vary per course offering.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 1-3 lecture

**Grade Mode:** Standard Letter

**GEOG 21062 PHYSICAL GEOGRAPHY (KBS) 3 Credit Hours**

Introduction to the study of the spatial characteristics of the Earth's physical environment, including how humans interact with it. Topics include weather and climate, vegetation, soils, ecosystems, landforms and land-formation processes, human impacts on Earth systems and human societal adaptations to the physical environment.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Kent Core Basic Sciences, TAG Social and Behavioral Sciences, Transfer Module Natural Sciences

**GEOG 21063 PHYSICAL GEOGRAPHY LABORATORY (KBS) (KLAB) 1 Credit Hour**

Course offers practical experience examining physical geographic processes, including the study and manipulation of map projections, Earth-sun relationships and experiments relating to the atmosphere, biosphere, lithosphere and hydrosphere. This laboratory course is taught in conjunction with the lecture and is designed to expand and reinforce concepts discussed in lecture through hands-on activities.

**Corequisite:** GEOG 21062.

**Schedule Type:** Laboratory

**Contact Hours:** 2 lab

**Grade Mode:** Standard Letter

**Attributes:** Kent Core Basic Sciences, Kent Core Basic Sciences Lab, Transfer Module Natural Sciences

**GEOG 22040 INTRODUCTION TO GLOBAL TOURISM (DIVG) 3 Credit Hours**

(Cross-listed with RPTM 26060) Introduction to travel and tourism around the world. Students study tourism technologies and cultural and natural environments as attractions, benefits of travel, travel ethics and sustainable development.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Diversity Global

**GEOG 22061 HUMAN GEOGRAPHY (DIVG) (KSS) 3 Credit Hours**

Introduction to the spatial patterns and processes of human activity on Earth. Course examines how humans understand and interact with the world. Students consider how cities are structured; economic and cultural differences; the interaction between politics and identity; and the environmental consequences of human activities.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Diversity Global, Kent Core Social Sciences, TAG Social and Behavioral Sciences, Transfer Module Social Sciences

**GEOG 29160 MAPPING OUR WORLD 3 Credit Hours**

Course is a first step for students to understand the importance of maps. Students are exposed to case studies and various mapping techniques that allow them to learn both the fundamentals of cartography and spatial data, and how people solve real-life problems using maps.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** TAG Social and Behavioral Sciences

**GEOG 31062 FUNDAMENTALS OF METEOROLOGY 3 Credit Hours**

Analysis of weather elements emphasizing energy exchanges and controls and atmospheric circulation. Course highlights the methods of weather prediction and people's modification of weather.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**GEOG 31064 PRINCIPLES OF CLIMATOLOGY 3 Credit Hours**

A study of the physical processes causing the distribution of world climates. Focus on local and urban climates, climatic change and societal impacts of climate.

**Prerequisite:** GEOG 31062.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**GEOG 31070 POPULATION AND THE ENVIRONMENT 3 Credit Hours**

Course examines the interrelations of population growth, resource depletion and the environment from a geographic perspective, including the principal themes of space and place.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**GEOG 31080 GEOGRAPHY OF WINE 3 Credit Hours**

Examines the physical environment of viticulture, including climate, soil and farm practices; the cultural tradition of wine making, consumption and trade; and regional production styles.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter



**GEOG 31088 ENVIRONMENTAL GEOGRAPHY THROUGH FILM 3 Credit Hours**

Cinema combines the art of storytelling and creation of landscape in such a way as to capture artifacts of the culture from which films emerge and as such, document in some way cultural, social and political history and experiences. In the course, films are used to examine environmental issues and processes in their social and cultural context.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**GEOG 32023 CAMPUS AND COMMUNITY GARDENS (ELR) 3 Credit Hours**

Course gives students a working knowledge in, and ability to understand and analyze, the intersections of food production, access and consumption. Course enables students to apply a critical geographic lens to compare the traditional food production system with alternatives at various scales, from local to global. Students focus on urban community gardening as one such alternative and personally interact with the Stark Campus' Flash's Food Garden as a case study in planning and preparing such a garden. Course combines lectures, discussions of scholarly publications, field trips, guest lectures and the hands-on experiential learning.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Experiential Learning Requirement

**GEOG 32080 POLITICS AND PLACE (DIVG) 3 Credit Hours**

Spatial aspects of political behavior as manifested in boundary changes, the sizes of states, interstate relations and spatial organization.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Diversity Global

**GEOG 34070 ECONOMIC GEOGRAPHY 3 Credit Hours**

Examines economic patterns at global, national, regional and local scales. Focus of course goes beyond space to place, with the recognition that these patterns are socially produced and, as such, change over time. Students examine economic models and theories from a spatial perspective, but with a strong focus on real-life outcomes, debates and challenges.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**GEOG 35065 GEOGRAPHY OF TRANSPORTATION AND SPATIAL INTERACTION 3 Credit Hours**

Course examines spatial interaction; the study of flows, networks and integrated systems at different spatial scales; transport and economic development; and models and methods of analysis.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**GEOG 36065 CITIES AND URBANIZATION (DIVG) 3 Credit Hours**

Course examines what is a city, how it has evolved over time under changing economic conditions, what is its internal structure and how this has been influenced by transportation developments. Special attention is paid to the causes and consequences of social diversity within the city and how cities differ throughout the world.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Diversity Global

**GEOG 37010 GEOGRAPHY OF OHIO 3 Credit Hours**

Study of Ohio as a distinctive region, its environment and the varied characteristics of its population, its historical geographic development and contemporary patterns and problems.

**Prerequisite:** Junior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**GEOG 37040 GEOGRAPHY OF AFRICA (DIVG) 3 Credit Hours**

Course covers the complex geographical and cultural elements in Africa and demonstrates how the interaction of these elements has affected Africa's linkages to other continents, especially North America. Students discuss how this diversity has affected Africa's economic development and political evolution.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Diversity Global

**GEOG 37045 GEOGRAPHY OF THE MIDDLE EAST 3 Credit Hours**

The Middle East is a world region where the interactions between human and physical geographies have shaped its history, culture, economies and population patterns. The course uses a thematic approach to understand these interactions and how they shape the modern Middle East and its relationship with the wider world.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**GEOG 37050 GEOGRAPHY OF RUSSIA AND THE COMMONWEALTH OF INDEPENDENT STATES (DIVG) 3 Credit Hours**

Study of the physical, economical, political and cultural geography of Russia, Ukraine, Central Asia and other components of the former Soviet Union.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Diversity Global

**GEOG 37066 GEOGRAPHY OF EUROPE (DIVG) 3 Credit Hours**

Europe is unique in terms of its historical cultural influence around the world, but over recent decades, Europe has undergone significant change and experienced many struggles. The attempts to integrate have led to significant debates about just what it means to be "European." This course covers Europe using a systematic approach. Students study the physical, political, religious, linguistic, social and economic environments within Europe. In addition, students explore the issues that tie Europeans to each other and to the outside world. Students sum up many of these aspects with case studies of nations or regions that typify the issues that face Europe today.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Diversity Global

**GEOG 37070 GEOGRAPHY OF EAST AND SOUTHEAST ASIA (DIVG) 3 Credit Hours**

Analysis of the physical and cultural geography of East and Southeast Asia, extending from Japan and China to Burma and Indonesia.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Diversity Global

**GEOG 37072 GEOGRAPHY OF CHINA 3 Credit Hours**

Provides an overview of China's physical environment, natural and human resources, social, economic and cultural characteristics, and its roles in today's global environment. Offers a comprehensive view of China's historical development and contemporary trends of growth and how it impacts the United States.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**GEOG 37084 GEOGRAPHY OF SOUTH AMERICA (DIVG) 3 Credit Hours**

Overview of region and survey of each country emphasizes systematic similarities and differences in physical environment, culture, economic development, population, land use, politics and history.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Diversity Global

**GEOG 37085 GEOGRAPHY OF LATIN AMERICA AND THE CARIBBEAN (DIVG) 3 Credit Hours**

Latin America and the Caribbean is a traditional geographic region that has been uniquely shaped through multiple physical and cultural factors. Course takes a thematic approach to understanding the interplay of these factors and how they shape modern Latin America-Caribbean identity; the diversity of the environment and culture within the region; and how the region relates to the rest of the world.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Diversity Global

**GEOG 37095 SPECIAL TOPICS IN REGIONAL GEOGRAPHY 3 Credit Hours**

(Repeatable for a maximum of 3 times) Special topics course in a specific region of the world. Topics vary per course offering.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**GEOG 39002 STATISTICAL METHODS IN GEOGRAPHY 3 Credit Hours**

Explores probability theory, spatial statistics, estimation procedures, hypothesis testing, spatial sampling, methods of areal association and regression analysis. Geographic applications are emphasized.

**Prerequisite:** MATH 10041 or MATH 11009 or MATH 11010.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**GEOG 40093 VARIABLE TITLE WORKSHOP IN GEOGRAPHY 1-6 Credit Hours**

(Repeatable for credit) Workshop topics vary per course offering.

**Prerequisite:** Special approval.

**Schedule Type:** Workshop

**Contact Hours:** 1-6 other

**Grade Mode:** Satisfactory/Unsatisfactory

**GEOG 40191 SEMINAR IN GEOGRAPHY (ELR) (WIC) 3 Credit Hours**

(Repeatable for a maximum of 6 credit hours) Advanced study of the historical development of geography and of contemporary issues in the field. Emphasis on methods of geographic investigation and presentation of results.

**Prerequisite:** Geography major; and junior standing.

**Schedule Type:** Seminar

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**Attributes:** Experiential Learning Requirement, Writing Intensive Course

**GEOG 40192 PRACTICUM IN GEOGRAPHY (ELR) 1-3 Credit Hours**

(Repeatable for credit) Practical experience in using or teaching geographic techniques and/or problem-solving. Faculty supervise the practicum.

**Prerequisite:** Special approval.

**Schedule Type:** Practical Experience

**Contact Hours:** 1-3 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**Attributes:** Experiential Learning Requirement

**GEOG 40195 SPECIAL TOPICS IN GEOGRAPHY 1-3 Credit Hours**

(Repeatable for credit)(Slashed with GEOG 50195 and GEOG 70195) Topics vary according to research interest of the instructor.

**Prerequisite:** Special approval.

**Schedule Type:** Lecture

**Contact Hours:** 1-3 lecture

**Grade Mode:** Standard Letter

**GEOG 40292 FIELD EXPERIENCE IN GEOGRAPHY (ELR) 1-6 Credit Hours**

(Repeatable for credit)(Slashed with GEOG 50292 and GEOG 70292) Examination of geographic landscapes in the field.

**Prerequisite:** Special approval.

**Schedule Type:** Field Experience

**Contact Hours:** 12-72 other

**Grade Mode:** Satisfactory/Unsatisfactory

**Attributes:** Experiential Learning Requirement

**GEOG 40392 PRACTICUM IN EMERGING GEOGRAPHIC TRENDS (ELR) 1-6 Credit Hours**

(Repeatable for credit) Students undertake a practicum to examine newly emerging geographic topics and techniques.

**Prerequisite:** Special approval.

**Schedule Type:** Practical Experience

**Contact Hours:** 1-6 other

**Grade Mode:** Satisfactory/Unsatisfactory

**Attributes:** Experiential Learning Requirement

**GEOG 40492 STUDY AWAY IN GEOGRAPHY (ELR) 1-3 Credit Hours**

(Repeatable for maximum 6 attempts)(Slashed with GEOG 50492 and GEOG 70492) Examination of geographic landscapes in the field.

**Prerequisite:** None.

**Schedule Type:** Field Experience

**Contact Hours:** 3-9 other

**Grade Mode:** Standard Letter

**Attributes:** Experiential Learning Requirement

**GEOG 40996 INDIVIDUAL INVESTIGATION IN GEOGRAPHY 1-3 Credit Hours**

(Repeatable for credit) Students undertake an investigation or research on specific geographical problems.

**Prerequisite:** Special approval.

**Schedule Type:** Individual Investigation

**Contact Hours:** 1-3 other

**Grade Mode:** Standard Letter-IP

**GEOG 41051 NATURAL DISASTERS AND SOCIETY 3 Credit Hours**

(Slashed with GEOG 51051 and GEOG 71051) Study of natural disasters; the physical causes of the hazards associated with the disasters; their effects on humans and societies; spatial and temporal distributions; and strategies to reduce the occurrences of disasters. Natural disasters include hurricanes, tornadoes, floods, landslides, heat waves, wildfire, blizzards, earthquakes, tsunami and volcanoes. Mitigation for disasters and responses to disasters are studied across economically developing nations and developed nations. Students learn through the analysis of numerous case studies of natural disasters.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**GEOG 41052 GLACIERS AND GLACIATION 3 Credit Hours**

(Slashed with GEOG 51052, GEOG 71052)(Cross-listed with GEOL 44052, GEOL 54052, GEOL 74052) Examination of how glacial ice masses change the shape of the Earth's surface, how they are integral to climate and sea level change, and how they pose high risk hazards.

**Prerequisite:** GEOG 21062 or GEOL 11040.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**GEOG 41065 APPLIED CLIMATOLOGY 3 Credit Hours**

(Slashed with GEOG 51065 and GEOG 71065) Course aims to provide a full appreciation for the range of applicability of climate data to real-world problems. There are three overarching goals of the course: (1) To provide a broad overview of what weather and climate information is out there and how people synthesize weather and climate information for use in applied work; (2) to enable a thorough appreciation for the breadth of disciplines in which applied climatology plays a role; and (3) to provide real-world experience of working through an applied climatological problem, via a final project.

**Prerequisite:** GEOG 31062 or GEOG 31064.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**GEOG 41066 GLOBAL CLIMATE CHANGE 3 Credit Hours**

(Slashed with GEOG 51066 and GEOG 71066) Examination of the evidence and causes of climate change and how these data are assessed. Students discuss past, present and future impacts of climate change and variability, in addition to policy implications.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**GEOG 41073 CONSERVATION OF NATURAL RESOURCES 3 Credit Hours**

(Slashed with GEOG 51073 and GEOG 71073) Evaluation of past and current problems associated with the management of natural resources and the environments associated with their utilization.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**GEOG 41074 RESOURCE GEOGRAPHY 3 Credit Hours**

(Slashed with GEOG 51074 and GEOG 71074) Culture-technology and distance in relation to resource adequacy and management concepts for societal decisions about common property and situations with external economies.

**Prerequisite:** Junior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**GEOG 41077 WATER AND SOCIETY 3 Credit Hours**

(Slashed with GEOG 51077 and GEOG 71077) This course examines the relationships between water and the world's population with an emphasis on the developing world (Africa, Asia, Middle East, and Latin America). Students will analyze how water impacts humans and how humans impact water. The course begins by introducing the hydro-social cycle and network theories to provide a foundation and framework to understand the four primary course themes: water policy and governance (including privatization, public-private partnerships, and the various United Nations' global water initiatives), water as power (including social power and how governments politicize water), flooding and droughts (including vulnerabilities, adaptations, and mitigations), and inequalities (including on gender, quality, access, and affordability). The course concludes by revisiting these themes and applying ideas of water justice and sustainability. The course is primarily discussion based with limited lectures to ensure students understand key concepts.

**Prerequisite:** Junior standing or above.

**Schedule Type:** Seminar

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**GEOG 41082 GEOGRAPHY OF SOILS 3 Credit Hours**

(Slashed with GEOG 51082 and GEOG 71082) An edaphological approach to soils, including morphology, formation, classification, geographical distribution and utilization. Students will be required to undertake field work.

**Prerequisite:** GEOG 21062 or GEOL 11040.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**GEOG 41195 SPECIAL TOPICS IN ENVIRONMENTAL GEOGRAPHY 1-3 Credit Hours**

(Repeatable for a maximum 10 times)(Slashed with GEOG 51195 and GEOG 71195) Topics vary per course offering.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 1-3 lecture

**Grade Mode:** Standard Letter

**GEOG 41800 GLOBAL ENVIRONMENTAL ISSUES 3 Credit Hours**

(Slashed with GEOG 51800 and GEOG 71800) Course examines environmental belief systems and explores various perceptions of the Earth's environment and its opportunities, constraints and risks. The goals of the course is twofold: (1) develop a framework to allow students to explore both their own relationship to the environment and to understand the sociocultural constructs that have informed their personal environmental beliefs; and (2) apply this knowledge to critically assess various stakeholder perspectives of specific environmental issues.

**Prerequisite:** None.

**Schedule Type:** Seminar

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**GEOG 42040 TOURISM DEVELOPMENT AND RECREATIONAL TRAVEL 3 Credit Hours**

(Cross-listed with RPTM 46000, RPTM 56000) Investigation of travel and tourism development using an interdisciplinary social science approach.

**Prerequisite:** RPTM 36060.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**GEOG 42052 MEDICAL GEOGRAPHY 3 Credit Hours**

(Slashed with GEOG 52052 and GEOG 72052) Course explores the interconnection between geography and health. From a spatial perspective, student consider past and present epidemics, global health risks and their variation, the link between disasters and disease and the factors leading to health disparities.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**GEOG 42053 GEOGRAPHIES OF MEMORY AND HERITAGE 3 Credit Hours**

(Slashed with GEOG 52053 and GEOG 72053) Course gives students a working knowledge in, and ability to understand and analyze, the intersection of memory and landscape as a tangible re-presentation of the human past, oftentimes used as a tangible expression of cultural or political power. Students focus on memorialization, preservation and tourism concepts and themes.

**Prerequisite:** Junior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**GEOG 42064 SETTLING THE NORTH AMERICAN ENVIRONMENT 3 Credit Hours**

(Slashed with GEOG 52064 and GEOG 72064) Course surveys the environmental changes of the North American continent brought about by Indigenous, European Colonial and American land use practices, from pre-Columbian times to present. Students engage with foundational historical narratives, evidence and methods for understanding these geographic pasts. Course is a combination of lectures and discussions of readings and in-class activities.

**Prerequisite:** Junior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**GEOG 42070 SEMINAR IN ETHNIC, LIFESTYLE AND NATIONAL COMMUNITIES 3 Credit Hours**

(Slashed with GEOG 52070 and GEOG 72070) Covers the geographies of ethnic identity and nationalism, national identity and territory, borderlands and diasporas, national separatism and the variety of ways in which cultural difference asserts itself.

**Prerequisite:** Junior standing; and special approval.

**Schedule Type:** Seminar

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**GEOG 42195 SPECIAL TOPICS IN SOCIAL GEOGRAPHY 1-3 Credit Hours**

(Repeatable for maximum 10 times)(Slashed with GEOG 52195 and 72195) Topics vary per course offering.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 1-3 lecture

**Grade Mode:** Standard Letter

**GEOG 44010 GEOGRAPHY OF THE GLOBAL ECONOMY (WIC) 3 Credit Hours**

(Slashed with GEOG 54010 and GEOG 74010) Geographic analysis of the increasing inter-connectedness of economic activity. Students discuss the social, technological and political changes associated with globalization.

**Prerequisite:** ECON 22061 or GEOG 34070.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Writing Intensive Course

**GEOG 44070 SPATIAL ANALYSIS AND LOCATION THEORY 3 Credit Hours**

(Slashed with GEOG 54070 and GEOG 74070) Classical theories for location of economic activities and contemporary approach of spatial analysis, spatial organization of economic systems behavioral models in economic geography spatial allocation problems.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**GEOG 45085 URBAN TRANSPORTATION 3 Credit Hours**

(Slashed with GEOG 55085 and GEOG 75085) Transportation may be the single most important force shaping cities. Historically, cities have depended on their access to ports, canals, railroads and highways. Today, transportation networks, the use of public transportation, provisions for bicycles and pedestrians and transportation architecture continue to define how a city looks, feels and acts.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**GEOG 46070 URBAN AND REGIONAL PLANNING 3 Credit Hours**

(Slashed with GEOG 56070 and GEOG 76070) Examines how cities develop and what "people" – through government, quasi-public institutions and private interests – can do to modify urban growth, the distribution of people and places and urban design.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**GEOG 46080 URBAN SUSTAINABILITY 3 Credit Hours**

(Slashed with GEOG 56080 and GEOG 76080) Provides an introduction to interdisciplinary perspectives on urban sustainability, focusing on environmental challenges caused by urbanization and the innovative ways urban dwellers seek to address those challenges. Course provides background on relevant disciplinary perspectives and their application to environmental challenge domains.

**Prerequisite:** None.

**Schedule Type:** Lecture, Seminar

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**GEOG 46081 SEMINAR IN URBAN GEOGRAPHY 3 Credit Hours**

(Slashed with GEOG 56081 and GEOG 76081) Through class discussions and readings, students gain a better understanding of the various issues, projects and paradigms that make up the field of urban geography.

**Prerequisite:** Junior standing; and special approval.

**Schedule Type:** Seminar

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**GEOG 46092 INTERNSHIP IN GEOGRAPHY AND PLANNING (ELR) 3-6 Credit Hours**

(Repeatable for credit) Pre-professional work experience in local, regional and environmental planning agencies and in business designed to utilize and develop academic skills. Registration into the course is competitive based on student's skills and interests and on number of positions available.

**Prerequisite:** Special approval.

**Schedule Type:** Practical Experience

**Contact Hours:** 3-6 other

**Grade Mode:** Standard Letter

**Attributes:** Experiential Learning Requirement

**GEOG 49070 GEOGRAPHIC INFORMATION SCIENCE 4 Credit Hours**

(Slashed with GEOG 59070 and GEOG 79070) Introduction to theories and methods for geographic data processing, including data capture and input data storage and management and data analysis and displays. Emphasis is on laboratory exercises using GIS software packages for real-world applications.

**Prerequisite:** None.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 3 lecture, 2 lab

**Grade Mode:** Standard Letter

**GEOG 49072 GEOGRAPHIC INFORMATION SCIENCE AND HEALTH 3 Credit Hours**

(Slashed with GEOG 59072 and GEOG 79072) Geographic theory and methods serve as the connection among disparate disciplines focused on how and why "health" varies between regions, cities and neighborhoods. Students examine how geospatial technologies, especially GIS, have become an important health analysis tool.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**GEOG 49075 GEOGRAPHIC INFORMATION SCIENCE: APPLICATIONS FOR SOCIAL PROBLEMS 3 Credit Hours**

(Slashed with GEOG 59075 and GEOG 79075) Course provides a survey of geographic information system (GIS) and related mapping applications that are used to understand and solve a variety of social problems (e.g., crime, poor health and educational outcomes, exposure to environmental hazards). Through case studies, students learn spatial data acquisition, basic spatial analysis and forms of map-based visual communication to stakeholders and the general public.

**Prerequisite:** GEOG 49070.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**GEOG 49076 SPATIAL PROGRAMMING 3 Credit Hours**

(Slashed with GEOG 59076 and GEOG 79076) Examination of the design, development and use of geographic information technologies with computer programming to model, process and visualize geographic phenomena.

**Prerequisite:** GEOG 49070.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter



**GEOG 49078 GEOGRAPHIC INFORMATION SCIENCE AND ENVIRONMENTAL HAZARDS 3 Credit Hours**

(Slashed with GEOG 59078 and GEOG 79078) The study and management of natural hazards are inherently reliant on both physical and human processes and spatial patterns. Given the many variables involved and the variety of scales at which they operate, use of geographic information system (GIS) has become standard practice in research on hazards and in their management by government agencies at all levels. Students are exposed to a wide array of spatial data that is used in these activities, as well as standard mapping and spatial analysis procedures and forms of data dissemination.

**Prerequisite:** GEOG 49070.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**GEOG 49080 ADVANCED GEOGRAPHIC INFORMATION SCIENCE 3 Credit Hours**

(Slashed with GEOG 59080 and GEOG 79080) Provides both an overview of geographic information science (GIS) data structures, analytical functions and usage and modeling approaches. Students learn how to manage GIS data in different formats or projections; select GIS analytical tools for solving different problems; and model changes of geographical phenomena as represented by GIS data.

**Prerequisite:** GEOG 49070.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**GEOG 49085 WEB AND MOBILE GEOGRAPHIC INFORMATION SCIENCE 3 Credit Hours**

(Slashed with GEOG 59085 and GEOG 79085) Explores how web and mobile phones present opportunities and challenges to the field of geographic information science (GIS). This includes the examination of the use, design and development of cyberinfrastructure-enabled GIS emphasizing web- and mobile-based interfaces and technologies. Students are recommended to have GIS experience to enroll in the course.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**GEOG 49098 RESEARCH IN GEOGRAPHIC INFORMATION TECHNOLOGY (ELR) 1-3 Credit Hours**

(Repeatable for credit) Students undertake individual research on a topic in geographic information technology.

**Prerequisite:** Special approval.

**Schedule Type:** Research

**Contact Hours:** 1-3 other

**Grade Mode:** Standard Letter-IP

**Attributes:** Experiential Learning Requirement

**GEOG 49162 CARTOGRAPHY 3 Credit Hours**

(Slashed with GEOG 59162 and GEOG 79162) Study of the design and production of dynamic, interactive, multimedia web-based mapping. Data acquisition and processing, symbolization, composition, text and color utilization.

**Prerequisite:** GEOG 49070.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**GEOG 49195 SPECIAL TOPICS IN GEOGRAPHIC INFORMATION SCIENCE 1-3 Credit Hours**

(Repeatable for maximum 10 times)(Slashed with GEOG 59195 and GEOG 79195) Topics vary per course offering.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 1-3 lecture

**Grade Mode:** Standard Letter

**GEOG 49198 RESEARCH IN CARTOGRAPHY AND GEOGRAPHIC INFORMATION SYSTEMS (ELR) 1-3 Credit Hours**

(Repeatable for credit) Students undertake individual research on a topic in cartography or geographic information science (GIS) under the direction of a faculty member.

**Prerequisite:** Special approval.

**Schedule Type:** Research

**Contact Hours:** 1-3 other

**Grade Mode:** Standard Letter

**Attributes:** Experiential Learning Requirement

**GEOG 49230 REMOTE SENSING 3 Credit Hours**

(Cross-listed with GEOL 42030, GEOL 52030, GEOL 72030) (Slashed with GEOG 59230, GEOG 79230) Computer analysis of multispectral satellite datasets. Applications in terrestrial Earth science are emphasized.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**GEOG 50093 VARIABLE TITLE WORKSHOP IN GEOGRAPHY 1-5 Credit Hours**

(Repeatable for credit) Variable title workshop in geography.

**Prerequisite:** Graduate standing.

**Schedule Type:** Workshop

**Contact Hours:** 1-5 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**GEOG 50195 SPECIAL TOPICS IN GEOGRAPHY 1-3 Credit Hours**

(Repeatable for credit)(Slashed with GEOG 40195 and GEOG 70195) Topics vary according to research interest of the instructor.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 1-3 lecture

**Grade Mode:** Standard Letter

**GEOG 50292 FIELD EXPERIENCE IN GEOGRAPHY 1-6 Credit Hours**

(Repeatable for credit)(Slashed with GEOG 40292 and GEOG 70292) Examination of geographic landscapes in the field.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Field Experience

**Contact Hours:** 12-72 other

**Grade Mode:** Satisfactory/Unsatisfactory

**GEOG 50392 PRACTICUM IN EMERGING GEOGRAPHIC TRENDS 1-6 Credit Hours**

(Repeatable for credit) Students undertake a practicum examining newly emerging geographic topics and techniques.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Practical Experience

**Contact Hours:** 1-6 other

**Grade Mode:** Satisfactory/Unsatisfactory

**GEOG 50492 STUDY AWAY IN GEOGRAPHY 1-3 Credit Hours**  
(Repeatable for maximum 6 attempts)(Slashed with GEOG 40492 and GEOG 70492) Examination of geographic landscapes in the field.

**Prerequisite:** Graduate standing.

**Schedule Type:** Field Experience

**Contact Hours:** 3-9 other

**Grade Mode:** Standard Letter

**GEOG 51051 NATURAL DISASTERS AND SOCIETY 3 Credit Hours**  
(Slashed with GEOG 41051 and GEOG 71051) Study of natural disasters; the physical causes of the hazards associated with the disasters; their effects on humans and societies; spatial and temporal distributions; and strategies to reduce the occurrences of disasters. Natural disasters include hurricanes, tornadoes, floods, landslides, heat waves, wildfire, blizzards, earthquakes, tsunami and volcanoes. Mitigation for disasters and responses to disasters are studied across economically developing nations and developed nations. Students learn through the analysis of numerous case studies of natural disasters.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**GEOG 51052 GLACIERS AND GLACIATION 3 Credit Hours**  
(Cross-listed with GEOL 54052, GEOL 44052, GEOL 74052) (Slashed with GEOG 41052, GEOG 71052) Examination of how glacial ice masses change the shape of the earth's surface, how they are integral to climate and sea level change, and how they pose high risk hazards.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**GEOG 51065 APPLIED CLIMATOLOGY 3 Credit Hours**  
(Slashed with GEOG 41065 and GEOG 71065) Course aims to provide a full appreciation for the range of applicability of climate data to real-world problems. There are three overarching goals of the course: (1) To provide a broad overview of what weather and climate information is out there and how people synthesize weather and climate information for use in applied work; (2) to enable a thorough appreciation for the breadth of disciplines in which applied climatology plays a role; and (3) to provide real-world experience of working through an applied climatological problem, via a final project.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**GEOG 51066 GLOBAL CLIMATE CHANGE 3 Credit Hours**  
(Slashed with GEOG 41066 and GEOG 71066) Examination of the evidence and causes of climate change and how these data are assessed. Students discuss past, present and future impacts of climate change and variability, in addition to policy implications.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**GEOG 51073 CONSERVATION OF OUR NATURAL RESOURCES 3 Credit Hours**  
(Slashed with GEOG 41073 and GEOG 71073) Evaluation of past and current problems associated with the management of natural resources and the environments associated with their utilization.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**GEOG 51074 RESOURCE GEOGRAPHY 3 Credit Hours**  
(Slashed with GEOG 41074 and GEOG 71074) Culture-technology and distance in relation to resource adequacy and management concepts for societal decisions about common property and situations with external economies.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**GEOG 51077 WATER AND SOCIETY 3 Credit Hours**  
(Slashed with GEOG 41077 and GEOG 71077) This course examines the relationships between water and the world's population with an emphasis on the developing world (Africa, Asia, Middle East, and Latin America). Students will analyze how water impacts humans and how humans impact water. The course begins by introducing the hydro-social cycle and network theories to provide a foundation and framework to understand the four primary course themes: water policy and governance (including privatization, public-private partnerships, and the various United Nations' global water initiatives), water as power (including social power and how governments politicize water), flooding and droughts (including vulnerabilities, adaptations, and mitigations), and inequalities (including on gender, quality, access, and affordability). The course concludes by revisiting these themes and applying ideas of water justice and sustainability. The course is primarily discussion-based with limited lectures to ensure students understand key concepts.

**Prerequisite:** Graduate standing.

**Schedule Type:** Seminar

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**GEOG 51082 GEOGRAPHY OF SOILS 3 Credit Hours**  
(Slashed with GEOG 41082 and GEOG 71082) An edaphological approach to soils, including morphology, formation, classification, geographical distribution and utilization. Students will be required to undertake field work.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**GEOG 51195 SPECIAL TOPICS IN ENVIRONMENTAL GEOGRAPHY 1-3 Credit Hours**  
(Repeatable for a maximum 10 times)(Slashed with GEOG 41195 and GEOG 71195) Topics vary per course offering.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 1-3 lecture

**Grade Mode:** Standard Letter

**GEOG 51800 GLOBAL ENVIRONMENTAL ISSUES 3 Credit Hours**

(Slashed with GEOG 41800 and GEOG 71800) Course examines environmental belief systems and explores various perceptions of the Earth's environment and its opportunities, constraints and risks. The goals of the course is twofold: (1) develop a framework to allow students to explore both their own relationship to the environment and to understand the sociocultural constructs that have informed their personal environmental beliefs; and (2) apply this knowledge to critically assess various stakeholder perspectives of specific environmental issues.

**Prerequisite:** Graduate standing.

**Schedule Type:** Seminar

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**GEOG 52052 MEDICAL GEOGRAPHY 3 Credit Hours**

(Slashed with GEOG 42052 and GEOG 72052) Course explores the interconnection between geography and health. From a spatial perspective, student consider past and present epidemics, global health risks and their variation, the link between disasters and disease and the factors leading to health disparities.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**GEOG 52053 GEOGRAPHIES OF MEMORY AND HERITAGE 3 Credit Hours**

(Slashed with GEOG 42053 and GEOG 72053) Course gives students a working knowledge in, and ability to understand and analyze, the intersection of memory and landscape as a tangible re-presentation of the human past, oftentimes used as a tangible expression of cultural or political power. Students focus on memorialization, preservation and tourism concepts and themes.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**GEOG 52064 SETTLING THE NORTH AMERICAN ENVIRONMENT 3 Credit Hours**

(Slashed with GEOG 42064 and GEOG 72064) Course surveys the environmental changes of the North American continent brought about by Indigenous, European Colonial and American land use practices, from pre-Columbian times to present. Students engage with foundational historical narratives, evidence and methods for understanding these geographic pasts. Course is a combination of lectures and discussions of readings and in-class activities.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**GEOG 52070 SEMINAR IN ETHNIC, LIFESTYLE AND NATIONAL COMMUNITIES 3 Credit Hours**

(Slashed with GEOG 42070 and GEOG 72070) Covers the geographies of ethnic identity and nationalism, national identity and territory, borderlands and diasporas, national separatism and the variety of ways in which cultural difference asserts itself.

**Prerequisite:** Graduate standing.

**Schedule Type:** Seminar

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**GEOG 52195 SPECIAL TOPICS IN SOCIAL GEOGRAPHY 1-3 Credit Hours**

(Repeatable for a maximum 10 times)(Slashed with GEOG 42195 and GEOG 72195) Topics vary per course offering.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 1-3 lecture

**Grade Mode:** Standard Letter

**GEOG 54010 GEOGRAPHY OF THE GLOBAL ECONOMY 3 Credit Hours**

(Slashed with GEOG 44010 and GEOG 74010) Geographic analysis of the increasing inter-connectedness of economic activity. Students discuss the social, technological and political changes associated with globalization.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**GEOG 54070 SPATIAL ANALYSIS AND LOCATION THEORY 3 Credit Hours**

(Slashed with GEOG 44070 and GEOG 74070) Classical theories for location of economic activities and contemporary approach of spatial analysis, spatial organization of economic systems behavioral models in economic geography and spatial allocation problems.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**GEOG 55085 URBAN TRANSPORTATION 3 Credit Hours**

(Slashed with GEOG 45085 and GEOG 75085) Transportation may be the single most important force shaping cities. Historically, cities have depended on their access to ports, canals, railroads and highways. Today, transportation networks, the use of public transportation, provisions for bicycles and pedestrians and transportation architecture continue to define how a city looks, feels and acts.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**GEOG 56070 URBAN AND REGIONAL PLANNING 3 Credit Hours**

(Slashed with GEOG 46070 and GEOG 76070) Examines how cities develop and what "people" – through government, quasi-public institutions and private interests – can do to modify urban growth, the distribution of people and places and urban design.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**GEOG 56080 URBAN SUSTAINABILITY 3 Credit Hours**

(Slashed with GEOG 46080 and GEOG 76080) Provides an introduction to interdisciplinary perspectives on urban sustainability, focusing on environmental challenges caused by urbanization and the innovative ways urban dwellers seek to address those challenges. Course provides background on relevant disciplinary perspectives and their application to environmental challenge domains.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture, Seminar

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**GEOG 56081 SEMINAR IN URBAN GEOGRAPHY 3 Credit Hours**  
(Slashed with GEOG 46081 and GEOG 76081) Through class discussions and readings, students gain a better understanding of the various issues, projects and paradigms that make up the field of urban geography.

**Prerequisite:** Graduate standing.

**Schedule Type:** Seminar

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**GEOG 56092 INTERNSHIP IN GEOGRAPHY AND PLANNING 3-6 Credit Hours**

(Repeatable for credit) Pre-professional work experience in local, regional and environmental planning agencies and private business designed to utilize and develop academic skills.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Practical Experience

**Contact Hours:** 3-6 other

**Grade Mode:** Standard Letter

**GEOG 59070 GEOGRAPHIC INFORMATION SCIENCE 4 Credit Hours**

(Slashed with GEOG 49070 and GEOG 79070) Introduction to theories and methods for geographic data processing, including data capture and input, data storage and management and data analysis and displays. Emphasis is on laboratory exercises using GIS software packages for real-world applications.

**Prerequisite:** Graduate standing.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 3 lecture, 2 lab

**Grade Mode:** Standard Letter

**GEOG 59071 FUNDAMENTALS OF GEOGRAPHIC INFORMATION SCIENCE I 3 Credit Hours**

Introduction to fundamental concepts and methods for geographic data analysis, including data capture and input, data storage and management, and data analysis and display. Emphasis is on applications of GIS software to real world issues.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**GEOG 59072 GEOGRAPHIC INFORMATION SCIENCE AND HEALTH 3 Credit Hours**

(Slashed with GEOG 49072 and GEOG 79072) Geographic theory and methods serve as the connection among disparate disciplines focused on how and why "health" varies between regions, cities and neighborhoods. Students examine how geospatial technologies, especially GIS, have become an important health analysis tool.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**GEOG 59075 GEOGRAPHIC INFORMATION SCIENCE: APPLICATIONS FOR SOCIAL PROBLEMS 3 Credit Hours**

(Slashed with GEOG 49075 and GEOG 79075) Course provides a survey of geographic information system (GIS) and related mapping applications that are used to understand and solve a variety of social problems (e.g., crime, poor health and educational outcomes, exposure to environmental hazards). Through case studies, students learn spatial data acquisition, basic spatial analysis and forms of map-based visual communication to stakeholders and the general public.

**Prerequisite:** GEOG 49070 or GEOG 59070 or GEOG 59071; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**GEOG 59076 SPATIAL PROGRAMMING 3 Credit Hours**

(Slashed with GEOG 49076 and GEOG 79076) Examination of the design, development and use of geographic information technologies with computer programming to model, process and visualize geographic phenomena.

**Prerequisite:** GEOG 59070; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**GEOG 59078 GEOGRAPHIC INFORMATION SCIENCE AND ENVIRONMENTAL HAZARDS 3 Credit Hours**

(Slashed with GEOG 49078 and GEOG 79078) The study and management of natural hazards are inherently reliant on both physical and human processes and spatial patterns. Given the many variables involved and the variety of scales at which they operate, use of geographic information system (GIS) has become standard practice in research on hazards and in their management by government agencies at all levels. Students are exposed to a wide array of spatial data that is used in these activities, as well as standard mapping and spatial analysis procedures and forms of data dissemination.

**Prerequisite:** GEOG 49070 or GEOG 59070 or GEOG 59071; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**GEOG 59080 ADVANCED GEOGRAPHIC INFORMATION SCIENCE 3 Credit Hours**

(Slashed with GEOG 49080 and GEOG 79080) Provides both an overview of geographic information science (GIS) data structures, analytical functions and usage and modeling approaches. Students learn how to manage GIS data in different formats or projections; select GIS analytical tools for solving different problems; and model changes of geographical phenomena as represented by GIS data.

**Prerequisite:** GEOG 59070; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter



**GEOG 59081 FUNDAMENTALS OF GEOGRAPHIC INFORMATION SCIENCE II 3 Credit Hours**

Advanced theories and techniques for handling and analyzing geographic data, analytical functions and modelling approaches. Topics covered include: two- and three-dimension processing of geographic information, detection of geographic patterns through spatial analysis and spatial statistics, network analysis, modeling of geographic processes and an overview of GIS programming tools.

**Prerequisite:** GEOG 59071; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**GEOG 59085 WEB AND MOBILE GEOGRAPHIC INFORMATION SCIENCE 3 Credit Hours**

(Slashed with GEOG 49085 and GEOG 79085) Explores how web and mobile phones present opportunities and challenges to the field of geographic information science (GIS). This includes the examination of the use, design and development of cyberinfrastructure-enabled GIS emphasizing web- and mobile-based interfaces and technologies. Students are recommended to have GIS experience to enroll in the course.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**GEOG 59162 CARTOGRAPHY 3 Credit Hours**

(Slashed with GEOG 49162 and GEOG 79162) Introduces map design principles including base maps, typography, generalization, symbols, color scheme, and classification. Builds on students' experiences with GIS to focus on applying map design principles using geospatial and graphic design software to produce effective print and static web maps.

**Prerequisite:** GEOG 49070 or GEOG 59070; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**GEOG 59195 SPECIAL TOPICS IN GEOGRAPHIC INFORMATION SCIENCE 1-3 Credit Hours**

(Repeatable for maximum 10 times)(Slashed with GEOG 49195 and GEOG 79195). Topics vary per course offering.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 1-3 lecture

**Grade Mode:** Standard Letter

**GEOG 59230 REMOTE SENSING 3 Credit Hours**

(Cross-listed with GEOL 52030, GEOL 42030, GEOL 72030) (Slashed with GEOG 49230, GEOG 79230) Computer analysis of multispectral satellite datasets. Applications in terrestrial Earth science are emphasized.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**GEOG 60191 SEMINAR IN TOPICAL GEOGRAPHY 3 Credit Hours**

(Repeatable for credit)(Slashed with GEOG 70191) Seminar in one of the major topical fields in geography. Topics vary per course offering.

**Prerequisite:** Graduate standing.

**Schedule Type:** Seminar

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**GEOG 60199 THESIS I 2-6 Credit Hours**

Thesis students must register for a total of 6 hours, 2 to 6 hours in single semester distributed over several semesters if desired.

**Prerequisite:** Graduate standing.

**Schedule Type:** Masters Thesis

**Contact Hours:** 2-6 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**GEOG 60299 THESIS II 2 Credit Hours**

Thesis students must continue registration each semester until all degree requirements are met.

**Prerequisite:** GEOG 60199; and graduate standing.

**Schedule Type:** Masters Thesis

**Contact Hours:** 2 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**GEOG 60800 SEMINAR IN THE DEVELOPMENT OF GEOGRAPHIC THOUGHT 3 Credit Hours**

(Slashed with GEOG 70800) Development of geographic knowledge and concepts with emphasis on recent development. Critical analysis of writings of representative geographers and scientists in related fields.

**Prerequisite:** Graduate standing.

**Schedule Type:** Seminar

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**GEOG 60900 QUALITATIVE RESEARCH METHODS IN GEOGRAPHY 3 Credit Hours**

(Slashed with GEOG 70900) Introduces qualitative methods and research applications, along with methodological considerations of these approaches. Students consider the epistemology of qualitative research and learn the mechanics of conducting this research in the field. In class, these methods are put into practice and the results are put into writing.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**GEOG 60996 RESEARCH IN GEOGRAPHY 1-3 Credit Hours**

(Repeatable for credit) Students undertake individual research problems in geography.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Research

**Contact Hours:** 1-3 other

**Grade Mode:** Standard Letter-IP

**GEOG 60998 RESEARCH I 1-15 Credit Hours**

(Repeatable for credit) Research or individual investigation for master's level graduate students. Credits earned may be applied toward meeting degree requirements if the department approves.

**Prerequisite:** Graduate standing.

**Schedule Type:** Research

**Contact Hours:** 1-15 other

**Grade Mode:** Standard Letter

**GEOG 61998 RESEARCH II 1-15 Credit Hours**

(Repeatable for credit) Research or individual investigation for master's level graduate students. Credits earned may be applied toward meeting degree requirements if the department approves.

**Prerequisite:** Graduate standing.

**Schedule Type:** Research

**Contact Hours:** 1-15 other

**Grade Mode:** Satisfactory/Unsatisfactory



**GEOG 62062 BEHAVIORAL GEOGRAPHY 3 Credit Hours**

(Slashed with GEOG 72062) Course focuses on spatial perception, cognition and behavior. Students discuss the collection and processing of spatial information, behavior in space, location of space and interaction in space.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**GEOG 67091 SEMINAR IN REGIONAL GEOGRAPHY 3 Credit Hours**

(Repeatable for credit)(Slashed with GEOG 77091) Variable content seminar on one of the major regions of world.

**Prerequisite:** Graduate standing.

**Schedule Type:** Seminar

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**GEOG 69004 QUANTITATIVE METHODS IN GEOGRAPHY 3 Credit Hours**

(Slashed with GEOG 79004) Explores the methods and applications of some of the most common statistics found in geographic work. It explores probability theory, spatial statistics, estimation procedures, hypothesis testing, spatial sampling, methods of areal association, correlation and regression analysis, and principal components analysis. Theory and execution of these methods are equally emphasized, and applications to geographic problems are examined within each theme.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**GEOG 69007 SPATIOTEMPORAL ANALYTICS 3 Credit Hours**

Course equips students with essential spatiotemporal thinking and technical skills in mapping, analyzing, visualizing, communicating and simulating the spatiotemporal data. The software ArcGIS and free packages in R and Netlogo are used in the instruction.

**Prerequisite:** GEOG 49070 or GEOG 59070 or GEOG 59071; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**GEOG 69073 GEOGRAPHIC INFORMATION SCIENCE: GLOBAL HEALTH 3 Credit Hours**

Emerging and re-emerging diseases in non-developed countries pose one of the greatest health challenges of current times. Geospatial approaches often provide one of the only information sources in data poor and challenging environments. The course exposes students to these health issues and disease environments through varied case studies, while simultaneously highlighting the geospatial methods and approaches used to understand and combat disease.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**GEOG 69074 GEOGRAPHIC INFORMATION SCIENCE: SPATIAL ANALYSIS FOR HEALTH GEOGRAPHY 3 Credit Hours**

Spatial analysis is used to verify patterns and associations in health data maps. These results can then be used to further hone the scientific question, or help design an intervention strategy. Course introduces students to spatial analytical approaches used by health researchers and practitioners in the exploratory investigation of health data. Students are exposed to new mobile technologies that can be used to enrich more traditional spatial data sources.

**Prerequisite:** GEOG 49070 or GEOG 59070 or GEOG 59071; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**GEOG 69079 ENVIRONMENTAL GEOGRAPHIC INFORMATION SCIENCE 3 Credit Hours**

GPS and environmental spatial data are commonly used in a variety of management and assessment plans in fields related to environmental science to achieve effective decision making and environmental resource management. Course focuses on techniques used to process, manage, visualize and analyze environmental data using GIS. Students learn how to collect and process GPS and online sources of geospatial data and how to employ techniques such as suitability modeling, measuring distributions and calculating landscape metrics.

**Prerequisite:** GEOG 49070 or GEOG 59070 or GEOG 59071; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**GEOG 69082 CYBERGIS 3 Credit Hours**

(Slashed with GEOG 79082) Explores cyberinfrastructure-enabled geographic information systems (i.e. cyberGIS) and related technologies including a broad introduction to the use, design, and development of cyberinfrastructure, spatial data infrastructures, geographic information services, and web-enabled mapping technologies. Situates CyberGIS in the broader context of geographic information science focusing on the how synthesizing computational thinking and spatial thinking influence methodological approaches.

**Prerequisite:** GEOG 49070 or GEOG 59070 or GEOG 59071; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**GEOG 69083 GEODATABASES 3 Credit Hours**

Course explores the essential concepts and skills needed to efficiently create a geodatabase, add data to it and realistically model the real-world spatial relationships inherent to the data. Students learn about geodatabase features that help ensure data integrity over time and about storing and managing geographic data.

**Prerequisite:** GEOG 49070 or GEOG 59070 or GEOG 59071; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**GEOG 69164 CARTOGRAPHIC DESIGN 3 Credit Hours**

Introduces students to the principles of map design and the art of map construction. Students will become familiar with the cartographic process, especially as they apply basic mapping concepts such as scale, projections, typography, generalization, symbols, color scheme, and classification to the design and production of thematic maps. Students will also learn how to describe and manipulate spatial data and how to select an appropriate map type for a given task and data set. This course builds on students' experiences with GIS to focus on the design needed to disseminate information beyond users of the software and produce effective print and web maps. Class exercises will provide hands-on experience in using GIS and graphic software packages. Principles and experiences learned in class will equip students with the fundamental skills necessary to effectively communicate graphic information through maps.

**Prerequisite:** GEOG 49070 or GEOG 59070 or GEOG 59071; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**GEOG 69231 ENVIRONMENTAL REMOTE SENSING 3 Credit Hours**

Introduction to the basic principles of environmental remote sensing, including the electromagnetic spectrum, spectral properties of Earth objects, aerial photograph analysis and interpretation and satellite image analysis and interpretation. Special focus will be on environmental applications, especially as they pertain to understanding vegetation, water, and land use mapping and impacts.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**GEOG 69392 PRACTICUM IN GEOGRAPHIC INFORMATION SCIENCE 6 Credit Hours**

Culminating experience for students in the MGISc program. It will be taken in place of two Carousel/Specialist courses on the schedule for the student's final semester. It is designed to provide practical experience in the application of MGISc course content in real-world professional settings. Students will select a professional project in consultation with their employer and program faculty and then will design, implement, and report on their activities in a culminating professional paper.

**Prerequisite:** GEOG 59070 or GEOG 59071 and GEOG 59080 or GEOG 59081 and GEOG 69164; and two additional graduate-level GEOG courses; and graduate standing; and special approval.

**Schedule Type:** Practical Experience

**Contact Hours:** 18 other

**Grade Mode:** Standard Letter-IP

**GEOG 69701 RESEARCH AND PRESENTATION OF GEOGRAPHIC DATA 3 Credit Hours**

Critical discussion of techniques of geographic research and preparation and presentation of research papers.

**Prerequisite:** Graduate standing.

**Schedule Type:** Seminar

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**GEOG 70093 VARIABLE TITLE WORKSHOP IN GEOGRAPHY 1-5 Credit Hours**

(Repeatable for credit) Variable title workshop in geography.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Workshop

**Contact Hours:** 1-5 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**GEOG 70191 SEMINAR IN TOPICAL GEOGRAPHY 3 Credit Hours**

(Repeatable for credit)(Slashed with GEOG 60191) Seminar in one of the major topical fields in geography. Topics vary per course offering.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Seminar

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**GEOG 70195 SPECIAL TOPICS IN GEOGRAPHY 1-3 Credit Hours**

(Repeatable for credit)(Slashed with GEOG 40195 and GEOG 50195) Topics vary according to research interest of the instructor.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 1-3 lecture

**Grade Mode:** Standard Letter

**GEOG 70292 FIELD EXPERIENCE IN GEOGRAPHY 1-6 Credit Hours**

(Repeatable for credit)(Slashed with GEOG 40292 and GEOG 50292) Examination of geographic landscapes in the field.

**Prerequisite:** Doctoral standing; and special approval.

**Schedule Type:** Field Experience

**Contact Hours:** 1-6 other

**Grade Mode:** Satisfactory/Unsatisfactory

**GEOG 70392 PRACTICUM IN EMERGING GEOGRAPHIC TRENDS 1-6 Credit Hours**

(Repeatable for credit) Students undertake a practicum in examining newly emerging geographic topics and techniques.

**Prerequisite:** Doctoral standing; and special approval.

**Schedule Type:** Practical Experience

**Contact Hours:** 1-6 other

**Grade Mode:** Satisfactory/Unsatisfactory

**GEOG 70492 STUDY AWAY IN GEOGRAPHY 1-3 Credit Hours**

(Repeatable for maximum 6 attempts)(Slashed with GEOG 40492 and GEOG 50492) Examination of geographic landscapes in the field.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Field Experience

**Contact Hours:** 3-9 other

**Grade Mode:** Standard Letter

**GEOG 70800 SEMINAR IN THE DEVELOPMENT OF GEOGRAPHIC THOUGHT 3 Credit Hours**

(Slashed with GEOG 60800) Development of geographic knowledge and concepts with emphasis on recent development. Critical analysis of writings of representative geographers and scientists in related fields.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Seminar

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**GEOG 70900 QUALITATIVE RESEARCH METHODS IN GEOGRAPHY 3 Credit Hours**

(Slashed with GEOG 60900) Introduces qualitative methods and research applications, along with methodological considerations of these approaches. Students consider the epistemology of qualitative research and learn the mechanics of conducting this research in the field. In class, these methods are put into practice and the results are put into writing.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**GEOG 71051 NATURAL DISASTERS AND SOCIETY 3 Credit Hours**

(Slashed with GEOG 41051 and GEOG 51051) Study of natural disasters; the physical causes of the hazards associated with the disasters; their effects on humans and societies; spatial and temporal distributions; and strategies to reduce the occurrences of disasters. Natural disasters include hurricanes, tornadoes, floods, landslides, heat waves, wildfire, blizzards, earthquakes, tsunami and volcanoes. Mitigation for disasters and responses to disasters are studied across economically developing nations and developed nations. Students learn through the analysis of numerous case studies of natural disasters.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**GEOG 71052 GLACIERS AND GLACIATION 3 Credit Hours**

(Cross-listed with GEOL 74052, GEOL 44052, GEOL 54052) (Slashed with GEOG 41052, GEOG 51052) Examination of how glacial ice masses change the shape of the earth's surface, how they are integral to climate and sea level change, and how they pose high risk hazards.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**GEOG 71065 APPLIED CLIMATOLOGY 3 Credit Hours**

(Slashed with GEOG 41065 and GEOG 51065) Course aims to provide a full appreciation for the range of applicability of climate data to real-world problems. There are three overarching goals of the course: (1) To provide a broad overview of what weather and climate information is out there and how people synthesize weather and climate information for use in applied work; (2) to enable a thorough appreciation for the breadth of disciplines in which applied climatology plays a role; and (3) to provide real-world experience of working through an applied climatological problem, via a final project.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**GEOG 71066 GLOBAL CLIMATE CHANGE 3 Credit Hours**

(Slashed with GEOG 41066 and GEOG 51066) Examination of the evidence and causes of climate change and how these data are assessed. Students discuss past, present and future impacts of climate change and variability, in addition to policy implications.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**GEOG 71073 CONSERVATION OF OUR NATURAL RESOURCES 3 Credit Hours**

(Slashed with GEOG 41073 and GEOG 51073) Evaluation of past and current problems associated with the management of natural resources and the environments associated with their utilization.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**GEOG 71074 RESOURCE GEOGRAPHY 3 Credit Hours**

(Slashed with GEOG 41074 and GEOG 51074) Culture-technology and distance in relation to resource adequacy and management concepts for societal decisions about common property and situations with external economies.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**GEOG 71077 WATER AND SOCIETY 3 Credit Hours**

(Slashed with GEOG 41077 and GEOG 51077) This course examines the relationships between water and the world's population with an emphasis on the developing world (Africa, Asia, Middle East, and Latin America). Students will analyze how water impacts humans and how humans impact water. The course begins by introducing the hydro-social cycle and network theories to provide a foundation and framework to understand the four primary course themes: water policy and governance (including privatization, public-private partnerships, and the various United Nations' global water initiatives), water as power (including social power and how governments politicize water), flooding and droughts (including vulnerabilities, adaptations, and mitigations), and inequalities (including on gender, quality, access, and affordability). The course concludes by revisiting these themes and applying ideas of water justice and sustainability. The course is primarily discussion-based with limited lectures to ensure students understand key concepts.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Seminar

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**GEOG 71082 GEOGRAPHY OF SOILS 3 Credit Hours**

(Slashed with GEOG 41082 and GEOG 51082) An edaphological approach to soils, including morphology, formation, classification, geographical distribution and utilization. Students will be required to undertake field work.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**GEOG 71195 SPECIAL TOPICS IN ENVIRONMENTAL GEOGRAPHY 1-3 Credit Hours**

(Repeatable for a maximum 10 times)(Slashed with GEOG 41195 and GEOG 51195) Topics vary per course offering.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 1-3 lecture

**Grade Mode:** Standard Letter

**GEOG 71800 GLOBAL ENVIRONMENTAL ISSUES 3 Credit Hours**  
(Slashed with GEOG 41800 and GEOG 51800) Course examines environmental belief systems and explores various perceptions of the Earth's environment and its opportunities, constraints and risks. The goals of the course is twofold: (1) develop a framework to allow students to explore both their own relationship to the environment and to understand the sociocultural constructs that have informed their personal environmental beliefs; and (2) apply this knowledge to critically assess various stakeholder perspectives of specific environmental issues.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Seminar

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**GEOG 72052 MEDICAL GEOGRAPHY 3 Credit Hours**  
(Slashed with GEOG 42052 and GEOG 52052) Course explores the interconnection between geography and health. From a spatial perspective, student consider past and present epidemics, global health risks and their variation, the link between disasters and disease and the factors leading to health disparities.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**GEOG 72053 GEOGRAPHIES OF MEMORY AND HERITAGE 3 Credit Hours**

(Slashed with GEOG 42053 and GEOG 52053) Course gives students a working knowledge in, and ability to understand and analyze, the intersection of memory and landscape as a tangible re-presentation of the human past, oftentimes used as a tangible expression of cultural or political power. Students focus on memorialization, preservation and tourism concepts and themes.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**GEOG 72062 BEHAVIORAL GEOGRAPHY 3 Credit Hours**  
(Slashed with GEOG 62062) Course focuses on spatial perception, cognition and behavior. Students discuss the collection and processing of spatial information, behavior in space, location of space and interaction in space.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**GEOG 72064 SETTLING THE NORTH AMERICAN ENVIRONMENT 3 Credit Hours**

(Slashed with GEOG 42064 and GEOG 52064) Course surveys the environmental changes of the North American continent brought about by Indigenous, European Colonial and American land use practices, from pre-Columbian times to present. Students engage with foundational historical narratives, evidence and methods for understanding these geographic pasts. Course is a combination of lectures and discussions of readings and in-class activities.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**GEOG 72070 SEMINAR IN ETHNIC, LIFESTYLE AND NATIONAL COMMUNITIES 3 Credit Hours**  
(Slashed with GEOG 42070 and GEOG 52070) Covers the geographies of ethnic identity and nationalism, national identity and territory, borderlands and diasporas, national separatism and the variety of ways in which cultural difference asserts itself.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Seminar

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**GEOG 72195 SPECIAL TOPICS IN SOCIAL GEOGRAPHY 1-3 Credit Hours**

(Repeatable for maximum of 10 times)(Slashed with GEOG 42195 and GEOG 52195) Topics vary per course offering.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 1-3 lecture

**Grade Mode:** Standard Letter

**GEOG 74010 GEOGRAPHY OF THE GLOBAL ECONOMY 3 Credit Hours**

(Slashed with GEOG 44010 and GEOG 54010) Geographic analysis of the increasing inter-connectedness of economic activity. Students discuss the social, technological and political changes associated with globalization.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**GEOG 74070 SPATIAL ANALYSIS AND LOCATION THEORY 3 Credit Hours**

(Slashed with GEOG 44070 and GEOG 54070) Classical theories for location of economic activities and contemporary approach of spatial analysis, spatial organization of economic systems, behavioral models in economic geography and spatial allocation problems.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**GEOG 75085 URBAN TRANSPORTATION 3 Credit Hours**  
(Slashed with GEOG 45085 and GEOG 55085) Transportation may be the single most important force shaping cities. Historically, cities have depended on their access to ports, canals, railroads and highways. Today, transportation networks, the use of public transportation, provisions for bicycles and pedestrians and transportation architecture continue to define how a city looks, feels and acts.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**GEOG 76070 URBAN AND REGIONAL PLANNING 3 Credit Hours**

(Slashed with GEOG 46070 and GEOG 56070) Examines how cities develop and what "people" – through government, quasi-public institutions and private interests – can do to modify urban growth, the distribution of people and places and urban design.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter



**GEOG 76080 URBAN SUSTAINABILITY 3 Credit Hours**

(Slashed with GEOG 46080 and GEOG 56080) Provides an introduction to interdisciplinary perspectives on urban sustainability, focusing on environmental challenges caused by urbanization and the innovative ways urban dwellers seek to address those challenges. Course provides background on relevant disciplinary perspectives and their application to environmental challenge domains.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture, Seminar

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**GEOG 76081 SEMINAR IN URBAN GEOGRAPHY 3 Credit Hours**

(Slashed with GEOG 46081 and GEOG 56081) Through class discussions and readings, students gain a better understanding of the various issues, projects and paradigms that make up the field of urban geography.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Seminar

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**GEOG 77091 SEMINAR IN REGIONAL GEOGRAPHY 3 Credit Hours**

(Repeatable for credit)(Slashed with GEOG 67091) Variable content seminar on one of the major regions of world.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Seminar

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**GEOG 79004 QUANTITATIVE METHODS IN GEOGRAPHY 3 Credit Hours**

(Slashed with GEOG 69004) Explores the methods and applications of some of the most common statistics found in geographic work. It explores probability theory, spatial statistics, estimation procedures, hypothesis testing, spatial sampling, methods of areal association, correlation and regression analysis, and principal components analysis. Theory and execution of these methods are equally emphasized, and applications to geographic problems are examined within each theme.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**GEOG 79070 GEOGRAPHIC INFORMATION SCIENCE 4 Credit Hours**

(Slashed with GEOG 49070 and GEOG 59070) Introduction to theories and methods for geographic data processing, including data capture and input, data storage and management and data analysis and displays. Emphasis is on laboratory exercises using GIS software packages for real-world applications.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 3 lecture, 2 lab

**Grade Mode:** Standard Letter

**GEOG 79072 GEOGRAPHIC INFORMATION SCIENCE AND HEALTH 3 Credit Hours**

(Slashed with GEOG 49072 and GEOG 59072) Geographic theory and methods serve as the connection among disparate disciplines focused on how and why "health" varies between regions, cities and neighborhoods. Students examine how geospatial technologies, especially GIS, have become an important health analysis tool.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**GEOG 79075 GEOGRAPHIC INFORMATION SCIENCE: APPLICATIONS FOR SOCIAL PROBLEMS 3 Credit Hours**

(Slashed with GEOG 49075 and GEOG 59075) Course provides a survey of geographic information system (GIS) and related mapping applications that are used to understand and solve a variety of social problems (e.g., crime, poor health and educational outcomes, exposure to environmental hazards). Through case studies, students learn spatial data acquisition, basic spatial analysis and forms of map-based visual communication to stakeholders and the general public.

**Prerequisite:** GEOG 79070; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**GEOG 79076 SPATIAL PROGRAMMING 3 Credit Hours**

(Slashed with GEOG 49076 and GEOG 59076) Examination of the design, development and use of geographic information technologies with computer programming to model process and visualize geographic phenomena.

**Prerequisite:** GEOG 79070; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**GEOG 79078 GEOGRAPHIC INFORMATION SCIENCE AND ENVIRONMENTAL HAZARDS 3 Credit Hours**

(Slashed with GEOG 49078 and GEOG 59078) The study and management of natural hazards are inherently reliant on both physical and human processes and spatial patterns. Given the many variables involved and the variety of scales at which they operate, use of geographic information system (GIS) has become standard practice in research on hazards and in their management by government agencies at all levels. Students are exposed to a wide array of spatial data that is used in these activities, as well as standard mapping and spatial analysis procedures and forms of data dissemination.

**Prerequisite:** GEOG 79070; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**GEOG 79080 ADVANCED GEOGRAPHIC INFORMATION SCIENCE 3 Credit Hours**

(Slashed with GEOG 49080 and GEOG 59080) Provides both an overview of geographic information science (GIS) data structures, analytical functions and usage and modeling approaches. Students learn how to manage GIS data in different formats or projections; select GIS analytical tools for solving different problems; and model changes of geographical phenomena as represented by GIS data.

**Prerequisite:** GEOG 79070; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter



**GEOG 79082 CYBERGIS 3 Credit Hours**

(Slashed with GEOG 69082) Explores cyberinfrastructure-enabled geographic information systems (i.e. cyberGIS) and related technologies including a broad introduction to the use, design, and development of cyberinfrastructure, spatial data infrastructures, geographic information services, and web-enabled mapping technologies. Situates cyberGIS in the broader context of geographic information science focusing on the how synthesizing computational thinking and spatial thinking influence methodological approaches.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**GEOG 79085 WEB AND MOBILE GEOGRAPHIC INFORMATION SCIENCE 3 Credit Hours**

(Slashed with GEOG 49085 and GEOG 59085) Explores how web and mobile phones present opportunities and challenges to the field of geographic information science (GIS). This includes the examination of the use, design and development of cyberinfrastructure-enabled GIS emphasizing web- and mobile-based interfaces and technologies. Students are recommended to have GIS experience to enroll in the course.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**GEOG 79162 CARTOGRAPHY 3 Credit Hours**

(Slashed with GEOG 49162 and GEOG 59162) Study of the design and production of dynamic, interactive, multimedia web-based mapping. Data acquisition and processing, symbolization, composition, text and color utilization.

**Prerequisite:** GEOG 49070 or GEOG 59070 or GEOG 79070; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**GEOG 79195 SPECIAL TOPICS IN GEOGRAPHIC INFORMATION SCIENCE 1-3 Credit Hours**

(Repeatable for maximum 10 times)(Slashed with GEOG 49195 and GEOG 59195). Topics vary per course offering.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 1-3 lecture

**Grade Mode:** Standard Letter

**GEOG 79230 REMOTE SENSING 3 Credit Hours**

(Cross-listed with GEOL 72030, GEOL 42030, GEOL 52030)(Slashed with GEOG 49230, GEOG 59230) Computer analysis of multispectral satellite datasets. Applications in terrestrial Earth science are emphasized.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**GEOG 80199 DISSERTATION I 15 Credit Hours**

(Repeatable for credit) Doctoral dissertation, for which registration in at least two semesters is required first of which will be semester in which dissertation work is begun and continuing until the completion of 30 hours.

**Prerequisite:** Doctoral standing; and special approval.

**Schedule Type:** Dissertation

**Contact Hours:** 15 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**GEOG 80299 DISSERTATION II 15 Credit Hours**

(Repeatable for credit) Continuing registration required of doctoral students who have completed the initial 30 hours of dissertation and continuing until all degree requirements are met.

**Prerequisite:** GEOG 80199; and doctoral standing.

**Schedule Type:** Dissertation

**Contact Hours:** 15 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**GEOG 80998 RESEARCH I 1-15 Credit Hours**

(Repeatable for credit) Research or individual investigation for doctoral students who have not yet passed their candidacy examination. Credits earned may be applied toward degree if department approves.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Research

**Contact Hours:** 1-15 other

**Grade Mode:** Standard Letter

**GEOG 81091 RESEARCH IN PHYSICAL RESOURCES 2,3 Credit Hours**

(Repeatable for credit) Research on basic processes related to formation of physical environment. Investigation of significant variables in resource utilization relevant to regional planning and development.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Research

**Contact Hours:** 2-3 other

**Grade Mode:** Standard Letter-IP

**GEOG 81998 RESEARCH II 1-15 Credit Hours**

(Repeatable for credit) Research or individual investigation for doctoral students who have not yet passed their candidacy examination. Credits earned may be applied toward degree if department approves.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Research

**Contact Hours:** 1-15 other

**Grade Mode:** Satisfactory/Unsatisfactory

**GEOG 89092 GRADUATE FIELD CAMP 5 Credit Hours**

(Repeatable for credit) Field research problems involving individual investigation of specific urban or rural region.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Field Experience

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**GEOG 89098 RESEARCH IN CARTOGRAPHY 1-3 Credit Hours**

(Repeatable for credit) Investigations into function of map as medium of scientific expression; problem of map design in relation to human perception of graphically expressed spatial information.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Research

**Contact Hours:** 1-3 other

**Grade Mode:** Standard Letter

## Geology (GEOL)

### GEOL 11040 HOW THE EARTH WORKS (KBS) 3 Credit Hours

Explores processes that shape Earth's landscapes (e.g., volcanism, flooding, landslides, sea-level rise, mountain building) and that are of vital interest to humans (e.g., earthquakes, groundwater, energy and mineral resources, climate change).

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Kent Core Basic Sciences, TAG Science, Transfer Module Natural Sciences

### GEOL 11041 HOW THE EARTH WORKS LABORATORY (KBS) (KLAB) 1 Credit Hour

Students study earth materials (e.g., mineral crystals, common and unusual rock specimens) and Google Earth images. Students conduct experiments demonstrating processes at earth's surface such as groundwater pollution, flooding and earthquakes.

**Pre/corequisite:** GEOL 11040.

**Schedule Type:** Laboratory

**Contact Hours:** 3 lab

**Grade Mode:** Standard Letter

**Attributes:** Kent Core Basic Sciences, Kent Core Basic Sciences Lab, TAG Science, Transfer Module Natural Sciences

### GEOL 11042 EARTH AND LIFE THROUGH TIME (KBS) 3 Credit Hours

Explores major events in the history of Earth, including mass extinctions, Snowball Earth hypothesis, birth and death of oceans, growth of continents, explosion of life, dinosaurs and the inter-relatedness of earth and life processes.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Kent Core Basic Sciences, TAG Science, Transfer Module Natural Sciences

### GEOL 11043 EARTH AND LIFE THROUGH TIME LABORATORY (KBS) (KLAB) 1 Credit Hour

Student conduct lab experiments with fossils, rocks and sedimentary features, a river process simulator and the concept of deep time.

**Pre/corequisite:** GEOL 11042.

**Schedule Type:** Laboratory

**Contact Hours:** 3 lab

**Grade Mode:** Standard Letter

**Attributes:** Kent Core Basic Sciences, Kent Core Basic Sciences Lab, TAG Science, Transfer Module Natural Sciences

### GEOL 21062 ENVIRONMENTAL EARTH SCIENCE (KBS) 3 Credit Hours

Application of Earth science to environmental problems, including natural resource extraction, water supply, pollution, waste disposal, landslides, floods and land use planning. Students take local field trips.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Kent Core Basic Sciences, Transfer Module Natural Sciences

### GEOL 21080 ALL ABOUT THE OCEANS (KBS) 3 Credit Hours

Explores the many fascinating (and some still little known) features and processes of the Earth's oceans, including mid-ocean ridges, hydrothermal vents, tsunamis, tides, rogue waves, marine life and the role of the ocean in climate change.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Kent Core Basic Sciences, Transfer Module Natural Sciences

### GEOL 22000 DEGREE AND CAREER PATHS IN GEOLOGY (ELR) 1 Credit Hour

Provides students with an overview of career paths and opportunities in the Geology and Earth Science majors. Components of the course include a journal club; informational presentations by geoscientists in industry, government and academia; and skills training needed for the majors.

Required overnight field trip.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 1 lecture

**Grade Mode:** Standard Letter

**Attributes:** Experiential Learning Requirement

### GEOL 23063 EARTH MATERIALS I 4 Credit Hours

Occurrence, associations, characteristics, crystallography and crystal chemistry of common minerals. Laboratory identification emphasizing physical properties. Required field trip.

**Prerequisite:** GEOL 11040 and GEOL 11041.

**Pre/corequisite:** CHEM 10060.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 5 other

**Grade Mode:** Standard Letter

**Attributes:** TAG Science

### GEOL 31070 EARTH MATERIALS II (WIC) 4 Credit Hours

Occurrence and origin of igneous, sedimentary and metamorphic rocks. Laboratory identification, description and classification of hand specimens. Required field trip.

**Prerequisite:** GEOL 23063.

**Schedule Type:** Laboratory, Lecture

**Contact Hours:** 3 lecture, 2 lab

**Grade Mode:** Standard Letter

**Attributes:** Writing Intensive Course

### GEOL 31080 STRUCTURAL GEOLOGY 4 Credit Hours

Mechanical principles of rock deformation. Structures in sedimentary igneous and metamorphic rocks. Lecture three hours lab two hours weekly. Required field trip.

**Prerequisite:** None.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 5 other

**Grade Mode:** Standard Letter

### GEOL 32066 GEOMORPHOLOGY 4 Credit Hours

Earth's surface features as functions of geological structures, processes and time. Landform analysis using topographic maps and some stereographic aerial photos. Trigonometry recommended.

**Prerequisite:** GEOL 11040 and GEOL 11041.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 4 other

**Grade Mode:** Standard Letter

**GEOL 33025 WATER AND THE ENVIRONMENT 3 Credit Hours**

How water moves on the surface and in the subsurface, with an emphasis on societal issues such as pollution, the conservation and management of water resources, and the impacts of environmental change.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**GEOL 34061 PRINCIPLES OF PALEONTOLOGY 4 Credit Hours**

Concepts applied to study of commonly preserved invertebrate organisms; identification of common North American fossils. Required field trip.

**Prerequisite:** GEOL 11042 and GEOL 11043.

**Corequisite:** BSCI 10002 or BSCI 10110.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 5 other

**Grade Mode:** Standard Letter

**GEOL 40093 VARIABLE TITLE WORKSHOP IN GEOLOGY 1-8 Credit Hours**

(Repeatable for credit)(Slashed with GEOL 50093 and GEOL 70093) Workshop and/or training program focused on a specific professional or disciplinary topic.

**Prerequisite:** Special approval.

**Schedule Type:** Workshop

**Contact Hours:** 1-8 other

**Grade Mode:** Satisfactory/Unsatisfactory

**GEOL 40095 SELECTED TOPICS IN GEOLOGY 1-3 Credit Hours**

(Slashed with GEOL 50095)(Repeatable for credit) Selected topics presented by visiting professors or one-time offerings presented by regular faculty.

**Prerequisite:** 20 credit hours of GEOL courses.

**Schedule Type:** Lecture

**Contact Hours:** 1-3 lecture

**Grade Mode:** Standard Letter

**GEOL 40096 INDIVIDUAL INVESTIGATION IN GEOLOGY 1-3 Credit Hours**

(Repeatable for credit) Directed field, laboratory and/or library research. Written report required. Maximum 3 credit hours applied toward bachelor's degree.

**Prerequisite:** Special approval.

**Schedule Type:** Individual Investigation

**Contact Hours:** 1-3 other

**Grade Mode:** Standard Letter-IP

**GEOL 40380 BIOGEOCHEMISTRY 3 Credit Hours**

(Cross-listed with BSCI 40380, BSCI 50380 and BSCI 70380) (Slashed with GEOL 50380) Biogeochemistry explores the chemical, physical, geological, and biological processes and reactions that shape the world around us, and provides tools for understanding human alterations to global systems. In this course, we will explore elemental cycles in diverse terrestrial and aquatic ecosystems, as well as assess how humans have drastically altered these elemental cycles on a global scale, and the implications of these changes for biological systems.

**Prerequisite:** Minimum C- grade in the following courses BSCI 10110 and BSCI 10120 or GEOL 11040 and (GEOL 11042 or GEOL 21062 or GEOL 21080); and CHEM 10060 and CHEM 10062.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**GEOL 41025 GENERAL GEOPHYSICS 3 Credit Hours**

(Slashed with GEOL 51025) Physics of Earth, seismology, geomagnetism, heat flow, radioactivity, geochronology, geotectonic models. Required field trip.

**Prerequisite:** GEOL 31070 and GEOL 31080 and MATH 12002; and PHY 13001 or PHY 23101.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**GEOL 41073 GEOLOGY OF OHIO 3 Credit Hours**

(Slashed with GEOL 51073) Minerals, rocks, fossils, structural geology, physiography, environmental geology and geologic resources. Required field trips. Does not count toward the Geology major.

**Prerequisite:** Junior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**GEOL 41077 GEOLOGY OF THE NATIONAL PARKS 3 Credit Hours**

(Slashed with GEOL 51077) Introduction to the geology of selected major national parks, emphasizing basic geological principles and the processes that have produced the spectacular scenery, rocks and fossils in each park. Does not count toward the Geology major.

**Prerequisite:** Junior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**GEOL 41079 ALL ABOUT DINOSAURS 3 Credit Hours**

(Slashed with GEOL 51079) Dinosaurs (and some relatives) and their world, emphasizing how to interpret evidence concerning their history, biology and evolutionary relationships. Does not count toward the Geology major.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**GEOL 41080 TECTONICS AND OROGENY 3 Credit Hours**

(Slashed with GEOL 51080) Introduces advanced concepts of plate tectonics and mountain building, with emphasis on Western United States and the Appalachians. Required field trip to New England.

**Prerequisite:** GEOL 31080.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**GEOL 41082 ADVANCED STRUCTURAL GEOLOGY 3 Credit Hours**

(Slashed with GEOL 51082) Theoretical and applied studies in structural geology, including mechanical, mathematical, model and field investigations. Required field trip.

**Prerequisite:** GEOL 31080.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**GEOL 41085 MASS EXTINCTIONS: CAUSES AND CONSEQUENCES 3 Credit Hours**

Investigation of causes and consequences of extinction to marine and terrestrial ecosystems using paleontological, geochemical, sedimentological, and stratigraphical information; emphasizing an Earth System Science approach to the Big Five mass extinctions as well as the possible 6th Extinction occurring now.

**Prerequisite:** Junior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**GEOL 41092 SUMMER FIELD CAMP (ELR) 6 Credit Hours**

(Repeatable for credit)(Slashed with GEOL 51092) Five weeks devoted to geologic mapping and solving structural and stratigraphic problems in the Black Hills of South Dakota.

**Prerequisite:** GEOL 31070 and GEOL 31080.

**Schedule Type:** Practical Experience

**Contact Hours:** 42 other

**Grade Mode:** Standard Letter

**Attributes:** Experiential Learning Requirement

**GEOL 42030 REMOTE SENSING 3 Credit Hours**

(Cross-listed with GEOG 49230)(Slashed with GEOL 52030, GEOL 72030, GEOG 59230, GEOG 79230) Computer analysis of multispectral satellite datasets. Applications in terrestrial Earth science are emphasized.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**GEOL 42035 SCIENTIFIC METHODS IN GEOLOGY 3 Credit Hours**

(Slashed with GEOL 52035) Applying scientific methods to geologic data in the field and laboratory; models and sampling procedures. Collecting and analyzing data. Formulating and testing hypotheses. Provides background necessary for upper-division geology courses.

**Prerequisite:** None.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 2 lecture, 2 lab

**Grade Mode:** Standard Letter

**GEOL 42036 PHYSICAL HYDROGEOLOGY LABORATORY 1 Credit Hour**

(Slashed with GEOL 52036) Laboratory course offering fundamental training for professional hydrogeologists. Required weekend field trip.

**Prerequisite:** Junior standing.

**Corequisite:** GEOL 42066.

**Schedule Type:** Laboratory

**Contact Hours:** 2 lab

**Grade Mode:** Standard Letter

**GEOL 42065 WATERSHED HYDROLOGY 3 Credit Hours**

(Slashed with GEOL 52065) Study of water movement, storage and transformation across landscapes.

**Prerequisite:** Junior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**GEOL 42066 PHYSICAL HYDROGEOLOGY 3 Credit Hours**

(Slashed with GEOL 52066) Principles of water flow in hydrologic cycle, soil and aquifer hydraulic properties, groundwater flow, surface water-groundwater interactions and geochemical evolution of groundwater. Application of principles for evaluation of water resources; emphasizing utilization, conservation and management of groundwater resources in a changing environment.

**Prerequisite:** MATH 12002 or higher MATH course; and junior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**GEOL 42067 INTRODUCTORY HYDROGEOLOGY 3 Credit Hours**

(Slashed with GEOL 52067) Occurrence of ground water in geologic materials; emphasizing utilization, conservation and management of ground water resources.

**Prerequisite:** Junior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**GEOL 42068 CONTAMINANT HYDROLOGY AND HYDROGEOLOGY 3 Credit Hours**

(Slashed with GEOL 52068) An introduction to the basic principles of chemical and physical behavior of contaminants introduced by humans into the environment. Students are expected to understand concepts and work practical quantitative problems.

**Prerequisite:** CHEM 10060 and CHEM 10061 and CHEM 10062 and CHEM 10063 and GEOL 42067.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**GEOL 42069 HYDROGEOCHEMISTRY 3 Credit Hours**

(Slashed with GEOL 52069 and GEOL 72069) Processes and evolution of the chemical composition of water in the natural hydrologic cycle.

Methods of hydrochemical interpretation applied to ground water and pollution problems.

**Prerequisite:** 10 credit hours of CHEM courses.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**GEOL 42074 ENVIRONMENTAL CORE AND WELL LOGGING 3 Credit Hours**

(Slashed with GEOL 52074) Examination of subsurface processes and the distribution of stratigraphic layers using core and well-logging techniques and based on analysis of physical properties of sediment, rock and pore fluids. Applications to paleoclimate, hydrogeology, engineering geology, oil and gas exploration and environmental remediation.

**Prerequisite:** GEOL 31070.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**GEOL 42078 ENGINEERING GEOLOGY 4 Credit Hours**

(Slashed with GEOL 52078) Engineering properties of soils and rocks. Site evaluation for building foundations, dams, tunnels and highways. Slope stability.

**Prerequisite:** Geology or Earth Science major; and junior standing.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 4 other

**Grade Mode:** Standard Letter



**GEOL 43040 PRINCIPLES OF GEOCHEMISTRY 3 Credit Hours**  
(Slashed with GEOL 53040) Introduction to chemical thermodynamics and its applications in solving geochemical problems. Distributions of elements and isotopes in the Earth and laws governing these distributions.

**Prerequisite:** CHEM 10060 and CHEM 10061 and GEOL 31070 and MATH 12002.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**GEOL 43042 ENVIRONMENTAL GEOCHEMISTRY 3 Credit Hours**  
(Slashed with GEOL 53042 and GEOL 73042) Explores chemical processes that influence the natural environment, including anthropogenic impacts. Topics include atmospheric chemistry and air pollution, energy and climate change, toxic organic compounds, water chemistry and water pollution, metals, soils, sediments and waste disposal. Environmental problem-solving using steady state and non-steady state box models, thermodynamics and energy transfer and chemical reactions and equilibria. Required half-day field trip.

**Prerequisite:** CHEM 10060 and CHEM 10061.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**GEOL 43043 ENVIRONMENTAL MINERALOGY 3 Credit Hours**  
(Slashed with GEOL 53043) Explores reactions between minerals and aqueous solutions, focusing on their role in chemical weathering, contaminant mobility, microbe-mineral interactions and an understanding of mineral-water interface processes and mechanisms at the molecular level. Through a series of case studies, the course explores the societal impacts of environmental contaminants and the potential role of remediation.

**Prerequisite:** GEOL 23063; and junior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**GEOL 43044 ENVIRONMENTAL ISOTOPES 3 Credit Hours**  
(Slashed with GEOL 53044 and GEOL 73044) Deals with the fundamentals of isotope geochemistry and the application of primarily light stable isotopes (H, O, C, N) to Earth system processes (involving the hydrosphere, biosphere and upper geosphere).

**Prerequisite:** CHEM 10060 and CHEM 10061.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**GEOL 44025 GEOLOGIC HAZARDS AND DISASTERS 3 Credit Hours**  
(Slashed with GEOL 44025) Explores the geological processes that drive a broad range of different natural hazards (including earthquakes, volcanoes, landslides and floods), and how they interact with human behavior to produce geological risks and disasters. Through discussion of historical and topical events, students focus on the dual challenges of combining uncertain and incomplete information from various geological and historical sources into realistic assessments of future risks; and the communication of accurate, relevant, actionable information about these risks to the public and authorities.

**Prerequisite:** Junior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**GEOL 44052 GLACIERS AND GLACIATION 3 Credit Hours**  
(Cross-listed with GEOG 41052, GEOG 51052, GEOG 71052)(Slashed with GEOL 54052, GEOL 74052) Examination of how glacial ice masses change the shape of the earth's surface, how they are integral to climate and sea level change, and how they pose high risk hazards.

**Prerequisite:** GEOG 21062 or GEOL 11040.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**GEOL 44070 SEDIMENTOLOGY AND STRATIGRAPHY 4 Credit Hours**  
(Slashed with GEOL 54070) Students are introduced to the principles regarding the systematics of sedimentary rocks and the relationships between geologic formations at various spatial and temporal scales. Lectures are integrated with readings from the open literature and required labs and field trips.

**Prerequisite:** GEOL 31070.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 3 lecture, 2 lab

**Grade Mode:** Standard Letter

**GEOL 44072 MARINE PROCESSES 3 Credit Hours**  
(Slashed with GEOL 54072) This course is an exploration of the mechanisms (geological, physical, chemical, and biological) through which the ocean operates, and how it influences climate on seasonal, inter-annual, glacial-interglacial and over deep time. Emphasis will be placed on understanding the relative importance of these processes and how they have varied through time, and the potential outcomes of human-induced changes to these processes.

**Prerequisite:** Special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**GEOL 44074 PALEOCEANOGRAPHY 3 Credit Hours**  
(Slashed with GEOL 54074) A broad spectrum of geological approaches. Paleontology, geochemistry and stratigraphy are employed to interpret the history of earth's oceans.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**GEOL 50093 VARIABLE TITLE WORKSHOP IN GEOLOGY 1-8 Credit Hours**  
(Repeatable for credit)(Slashed with GEOL 40093 and GEOL 70093) Workshop or training program focused on a specific professional or disciplinary topic within geology.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Workshop

**Contact Hours:** 1-8 other

**Grade Mode:** Satisfactory/Unsatisfactory

**GEOL 50095 SELECTED TOPICS IN GEOLOGY 1-3 Credit Hours**  
(Slashed with GEOL 50095)(Repeatable for credit) Selected topics presented by visiting professors or one-time offerings presented by regular faculty.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 1-3 lecture

**Grade Mode:** Standard Letter



**GEOL 50380 BIOGEOCHEMISTRY 3 Credit Hours**

(Cross-listed with BSCI 40380, BSCI 50380 and BSCI 70380) (Slashed with GEOL 40380) Biogeochemistry explores the chemical, physical, geological, and biological processes and reactions that shape the world around us, and provides tools for understanding human alterations to global systems. In this course, we will explore elemental cycles in diverse terrestrial and aquatic ecosystems, as well as assess how humans have drastically altered these elemental cycles on a global scale, and the implications of these changes for biological systems.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**GEOL 51025 GENERAL GEOPHYSICS 3 Credit Hours**

(Slashed with GEOL 51025) Physics of Earth, seismology, geomagnetism, heat flow, radioactivity, geochronology, geotectonic models. Required field trip.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**GEOL 51073 GEOLOGY OF OHIO 3 Credit Hours**

(Slashed with GEOL 41073) Minerals, rocks, fossils, structural geology, physiography, environmental geology and geologic resources. Required field trips. Does not count toward the Geology major.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**GEOL 51077 GEOLOGY OF THE NATIONAL PARKS 3 Credit Hours**

(Slashed with GEOL 41077) Introduction to the geology of selected major national parks, emphasizing basic geological principles and the processes that have produced the spectacular scenery, rocks and fossils in each park. Does not count toward the Geology major.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**GEOL 51079 ALL ABOUT DINOSAURS 3 Credit Hours**

(Slashed with GEOL 41079) Dinosaurs (and some relatives) and their world, emphasizing how to interpret evidence concerning their history, biology and evolutionary relationships. Does not count toward the Geology major.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**GEOL 51080 TECTONICS AND OROGENY 3 Credit Hours**

(Slashed with GEOL 41080) Introduces advanced concepts of plate tectonics and mountain building, with emphasis on Western United States and the Appalachians. Required field trip to New England.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**GEOL 51082 ADVANCED STRUCTURAL GEOLOGY 3 Credit Hours**

(Slashed with GEOL 41082) Theoretical and applied studies in structural geology, including mechanical, mathematical, model and field investigations. Required field trip.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**GEOL 51092 SUMMER FIELD CAMP 6 Credit Hours**

(Repeatable for credit)(Slashed with GEOL 41092) Five weeks devoted to geologic mapping and solving structural and stratigraphic problems in the Black Hills of South Dakota.

**Prerequisite:** Graduate standing.

**Schedule Type:** Practical Experience

**Contact Hours:** 42 other

**Grade Mode:** Standard Letter-IP

**GEOL 52030 REMOTE SENSING 3 Credit Hours**

(Cross-listed with GEOG 51052, GEOG 41052, GEOG 71052) (Slashed with GEOL 42030, GEOL 72030) Computer analysis of multispectral satellite datasets. Applications in terrestrial Earth science are emphasized.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**GEOL 52035 SCIENTIFIC METHODS IN GEOLOGY 3 Credit Hours**

(Slashed with GEOL 42035) Applying scientific methods to geologic data in the field and laboratory; models and sampling procedures. Collecting and analyzing data. Formulating and testing hypotheses.

**Prerequisite:** Graduate standing.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 2 lecture, 2 lab

**Grade Mode:** Standard Letter

**GEOL 52036 PHYSICAL HYDROGEOLOGY LAB 1 Credit Hour**

(Slashed with GEOL 52036) Laboratory course offering fundamental training for professional hydrogeologists. Required weekend field trip.

**Prerequisite:** Graduate standing.

**Corequisite:** GEOL 52066.

**Schedule Type:** Laboratory

**Contact Hours:** 2 lab

**Grade Mode:** Standard Letter

**GEOL 52065 WATERSHED HYDROLOGY 3 Credit Hours**

(Slashed with GEOL 42065) Study of water movement, storage and transformation across landscapes.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**GEOL 52066 PHYSICAL HYDROGEOLOGY 3 Credit Hours**

(Slashed with GEOL 42066) Principles of water flow in hydrologic cycle, soil and aquifer hydraulic properties, groundwater flow, surface water-groundwater interactions and geochemical evolution of groundwater. Application of principles for evaluation of water resources; emphasizing utilization, conservation and management of groundwater resources in a changing environment.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**GEOL 52067 INTRODUCTORY HYDROGEOLOGY 3 Credit Hours**

(Slashed with GEOL 42067) Occurrence of ground water in geologic materials; emphasizing utilization, conservation and management of ground water resources.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**GEOL 52068 CONTAMINANT HYDROLOGY AND HYDROGEOLOGY 3 Credit Hours**

(Slashed with GEOL 42068) An introduction to the basic principles of chemical and physical behavior of contaminants introduced by humans into the environment. Students are expected to understand concepts and work practical quantitative problems.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**GEOL 52069 HYDROGEOCHEMISTRY 3 Credit Hours**

(Slashed with GEOL 42069 and GEOL 72069) Processes and evolution of the chemical composition of water in the natural hydrologic cycle. Methods of hydrochemical interpretation applied to ground water and pollution problems.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**GEOL 52074 ENVIRONMENTAL CORE AND WELL LOGGING 3 Credit Hours**

(Slashed with GEOL 42074) Examination of subsurface processes and the distribution of stratigraphic layers using core and well-logging techniques and based on analysis of physical properties of sediment, rock and pore fluids. Applications to paleoclimate, hydrogeology, engineering geology, oil and gas exploration and environmental remediation.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**GEOL 52078 ENGINEERING GEOLOGY 4 Credit Hours**

(Slashed with GEOL 42078) Engineering properties of soils and rocks. Site evaluation for building foundations, dams, tunnels and highways. Slope stability.

**Prerequisite:** Graduate standing.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 4 other

**Grade Mode:** Standard Letter

**GEOL 53040 PRINCIPLES OF GEOCHEMISTRY 3 Credit Hours**

(Slashed with GEOL 43040) Introduction to chemical thermodynamics and its applications in solving geochemical problems. Distributions of elements and isotopes in the Earth and laws governing these distributions.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**GEOL 53042 ENVIRONMENTAL GEOCHEMISTRY 3 Credit Hours**

(Slashed with GEOL 43042 and GEOL 73042) Explores chemical processes that influence the natural environment, including anthropogenic impacts. Topics include atmospheric chemistry and air pollution, energy and climate change, toxic organic compounds, water chemistry and water pollution, metals, soils, sediments and waste disposal. Environmental problem-solving using steady state and non-steady state box models, thermodynamics and energy transfer and chemical reactions and equilibria. Required half-day field trip.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**GEOL 53043 ENVIRONMENTAL MINERALOGY 3 Credit Hours**

(Slashed with GEOL 43043) Explores reactions between minerals and aqueous solutions, focusing on their role in chemical weathering, contaminant mobility, microbe-mineral interactions and an understanding of mineral-water interface processes and mechanisms at the molecular level. Through a series of case studies, the course explores the societal impacts of environmental contaminants and the potential role of remediation.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**GEOL 53044 ENVIRONMENTAL ISOTOPES 3 Credit Hours**

(Slashed with GEOL 43044 and GEOL 73044) Deals with the fundamentals of isotope geochemistry and the application of primarily light stable isotopes (H, O, C, N) to Earth system processes (involving the hydrosphere, biosphere and upper geosphere).

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**GEOL 54025 GEOLOGIC HAZARDS AND DISASTERS 3 Credit Hours**

(Slashed with GEOL 44025) Explores the geological processes that drive a broad range of different natural hazards (including earthquakes, volcanoes, landslides and floods), and how they interact with human behavior to produce geological risks and disasters. Through discussion of historical and topical events, students focus on the dual challenges of combining uncertain and incomplete information from various geological and historical sources into realistic assessments of future risks; and the communication of accurate, relevant, actionable information about these risks to the public and authorities.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**GEOL 54052 GLACIERS AND GLACIATION 3 Credit Hours**

(Cross-listed with GEOG 51052, GEOG 41052, GEOG 71052)(Slashed with GEOL 44052, GEOL 74052) Examination of how glacial ice masses change the shape of the earth's surface, how they are integral to climate and sea level change and how they pose high risk hazards.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**GEOL 54070 SEDIMENTOLOGY AND STRATIGRAPHY 4 Credit Hours**

(Slashed with GEOL 44070) Students are introduced to the principles regarding the systematics of sedimentary rocks and the relationships between geologic formations at various spatial and temporal scales. Lectures are integrated with readings from the open literature and required labs and field trips.

**Prerequisite:** Graduate standing.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 3 lecture, 2 lab, 1 other

**Grade Mode:** Standard Letter

**GEOL 54072 MARINE PROCESSES 3 Credit Hours**

(Slashed with GEOL 44072) This course is an exploration of the mechanisms (geological, physical, chemical, and biological) through which the ocean operates, and how it influences climate on seasonal, inter-annual, glacial-interglacial and over deep time. Emphasis will be placed on understanding the relative importance of these processes and how they have varied through time, and the potential outcomes of human-induced changes to these processes.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**GEOL 54074 PALEOCEANOGRAPHY 3 Credit Hours**

(Slashed with GEOL 44074) A broad spectrum of geological approaches. Paleontology, geochemistry and stratigraphy are employed to interpret the history of earth's oceans.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**GEOL 60080 RESEARCH ORIENTATION 1 Credit Hour**

(Slashed with GEOL 70080) Faculty research presentations; thesis/dissertation proposal preparation; discussion of professional organizations, preparation of manuscripts and oral presentation of papers.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 1 lecture

**Grade Mode:** Satisfactory/Unsatisfactory

**GEOL 60084 GEOLOGY GRADUATE STUDENT ORIENTATION 1 Credit Hour**

(Slashed with GEOL 70084) Introduction to departmental resources, procedures and expectations, as well as approaches to successfully conduct research at a graduate level. Training and experience in presentation of data and college teaching of applied geology, as well as a discussion forum on professional ethics and responsibilities.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 1 lecture

**Grade Mode:** Satisfactory/Unsatisfactory

**GEOL 60091 SEMINAR 1-2 Credit Hours**

(Repeatable for credit)(Slashed with GEOL 70091) Topics in geology varies per course offering.

**Prerequisite:** Graduate standing.

**Schedule Type:** Seminar

**Contact Hours:** 1-2 other

**Grade Mode:** Standard Letter

**GEOL 60095 SELECTED TOPICS IN GEOLOGY 1-3 Credit Hours**

(Repeatable for credit)Selected topics presented by visiting professors or one-time offerings presented by regular faculty.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 1-3 lecture

**Grade Mode:** Standard Letter

**GEOL 60098 RESEARCH 1-15 Credit Hours**

(Repeatable for credit)Research for master's level students. Credits earned may be applied toward degree if department approves.

**Prerequisite:** Graduate standing.

**Schedule Type:** Research

**Contact Hours:** 1-15 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**GEOL 60199 THESIS I 2-6 Credit Hours**

Thesis students must register for a total of 6 hours, 2 to 6 hours in a single semester distributed over several semesters if desired.

**Prerequisite:** Graduate standing.

**Schedule Type:** Masters Thesis

**Contact Hours:** 2-6 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**GEOL 60299 THESIS II 2 Credit Hours**

Thesis students must continue registration each semester until all degree requirements are met.

**Prerequisite:** GEOL 60199; and graduate standing.

**Schedule Type:** Masters Thesis

**Contact Hours:** 2 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**GEOL 61093 WORKSHOP IN COLLEGE TEACHING 1-2 Credit Hours**

(Repeatable for credit)(Slashed with GEOL 71093) Workshop in college teaching.

**Prerequisite:** Graduate standing.

**Schedule Type:** Workshop

**Contact Hours:** 1-2 other

**Grade Mode:** Satisfactory/Unsatisfactory

**GEOL 62011 HYDROLOGY 3 Credit Hours**

(Slashed with GEOL 72011) Introduction to hydrologic measurements, properties of water precipitation, evapotranspiration runoff computations, streamflow and flood routing.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**GEOL 62068 ADVANCED HYDROGEOLOGY 3 Credit Hours**

(Slashed with GEOL 72068) Quantitative approach to occurrence of ground water; methods of investigation, evaluation and development of ground water resources emphasizing optimization and maximal exploitation without environmental changes.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**GEOL 62079 ADVANCED ENGINEERING GEOLOGY 3 Credit Hours**  
(Slashed with GEOL 72079) Role of geology in site selection, design and construction relative to dams, tunnels, highways, slope stability and nuclear power plants. Selected case histories. Field trip and term paper required.

**Prerequisite:** GEOL 52078; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**GEOL 62082 INTRODUCTION TO SOIL MECHANICS 4 Credit Hours**  
(Slashed with GEOL 72082) Engineering properties and engineering behavior of soils, including classification properties, compaction permeability strength and compressibility.

**Prerequisite:** Graduate standing.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 5 other

**Grade Mode:** Standard Letter

**GEOL 62083 ROCK SLOPE STABILITY 3 Credit Hours**  
(Slashed with GEOL 72083) Provide information used to recognize, avoid, design for, control and correct slope movements in rocks; determination of shear strength along rock discontinuities; stability analysis of rock slopes.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**GEOL 62084 FOUNDATION ENGINEERING 3 Credit Hours**  
(Slashed with GEOL 72084) Seepage and drainage of foundation soils. Subsurface investigations. Principles, design and construction of shallow and deep foundations. Earth retaining structures.

**Prerequisite:** GEOL 52078 or GEOL 72082; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**GEOL 63063 SEDIMENTARY PETROLOGY 3 Credit Hours**  
(Slashed with GEOL 73063) Classification, texture, composition, provenance and diagenesis of sandstones and carbonates, following review of optical mineralogy. Petrographic microscopy and other laboratory techniques are emphasized.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**GEOL 64028 PALEOECOLOGY 3 Credit Hours**  
(Slashed with GEOL 74028) Relationships between ancient organisms and their environments, as interpreted from fossils, enclosing rock strata and recent analogs. Field and laboratory studies. Saturday field trips.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**GEOL 64030 SYSTEMATIC INVERTEBRATE PALEONTOLOGY I 3 Credit Hours**

(Slashed with GEOL 74030) Detailed investigation and examination of important literature concerning taxonomic characters of invertebrate phyla: Protista, Porifera, Cnidaria and Bryozoa. Numerous oral reports, specimen examination.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**GEOL 64032 SYSTEMATIC INVERTEBRATE PALEONTOLOGY II 3 Credit Hours**

(Slashed with GEOL 74032) Detailed investigation and examination of important literature concerning taxonomic characters of invertebrate phyla: Brachiopoda, Mollusca, Arthropoda and Echinodermata. Numerous oral reports, specimen examination.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**GEOL 64036 CENOZOIC CLIMATE CHANGE 3 Credit Hours**  
(Slashed with GEOL 74036) An overview of the concepts and principles involved in interpreting global and hemispheric Cenozoic climate change (past 65 million years). Emphasis on particular temporal and spatial scales and cycles. Extensive reading in scientific journals.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**GEOL 64038 PALEOLIMNOLOGY 3 Credit Hours**  
(Slashed with GEOL 74038) An overview of significant topics and applications in paleolimnology of Holocene (last 10,000 years) and Pleistocene (last two million years) records, including current issues in environmental and climatic reconstruction. Extensive reading expected.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**GEOL 70080 RESEARCH ORIENTATION 1 Credit Hour**  
(Slashed with GEOL 60080) Faculty research presentations; thesis/dissertation proposal preparation; discussion of professional organizations, preparation of manuscripts and oral presentation of papers.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 1 lecture

**Grade Mode:** Satisfactory/Unsatisfactory

**GEOL 70084 GEOLOGY GRADUATE STUDENT ORIENTATION 1 Credit Hour**

(Slashed with GEOL 60084) Introduction to departmental resources, procedures and expectations, as well as approaches to successfully conduct research at a graduate level. Training and experience in presentation of data and college teaching of applied geology, as well as discussion forum on professional ethics and responsibilities.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 1 lecture

**Grade Mode:** Satisfactory/Unsatisfactory



**GEOL 70091 SEMINAR 1-2 Credit Hours**

(Repeatable for credit)(Slashed with GEOL 60091) Topics in geology varies per course offering.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Seminar

**Contact Hours:** 1-2 other

**Grade Mode:** Standard Letter

**GEOL 70093 VARIABLE TITLE WORKSHOP IN GEOLOGY 1-8 Credit Hours**

(Repeatable for credit)(Slashed with GEOL 40093 and GEOL 50093) Workshop and/or training program, of varying duration focused on a specific professional or disciplinary topic.

**Prerequisite:** Doctoral standing; and special approval.

**Schedule Type:** Workshop

**Contact Hours:** 1-8 other

**Grade Mode:** Satisfactory/Unsatisfactory

**GEOL 71093 WORKSHOP IN COLLEGE TEACHING 1-2 Credit Hours**

(Repeatable for credit)(Slashed with GEOL 61093) Workshop in college teaching.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Workshop

**Contact Hours:** 1-2 other

**Grade Mode:** Satisfactory/Unsatisfactory

**GEOL 72011 HYDROLOGY 3 Credit Hours**

(Slashed with GEOL 62011) Introduction to hydrologic measurements, properties of water precipitation, evapotranspiration, runoff computations, streamflow and flood routing.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**GEOL 72030 REMOTE SENSING 3 Credit Hours**

(Cross-listed with GEOG 71052, GEOG 41052, GEOG 51052) (Slashed with GEOL 42030, GEOL 52030) Computer analysis of multispectral satellite datasets. Applications in terrestrial Earth science are emphasized.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**GEOL 72068 ADVANCED HYDROGEOLOGY 3 Credit Hours**

(Slashed with GEOL 62068) Quantitative approach to occurrence of ground water; methods of investigation evaluation and development of ground water resources emphasizing optimization and maximal exploitation without environmental changes.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**GEOL 72069 HYDROGEOCHEMISTRY 3 Credit Hours**

(Slashed with GEOL 42069 and GEOL 52069) Processes and evolution of the chemical composition of water in the natural hydrologic cycle. Methods of hydrochemical interpretation applied to ground water and pollution problems.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**GEOL 72079 ADVANCED ENGINEERING GEOLOGY 3 Credit Hours**

(Slashed with GEOL 62079) Role of geology in site selection, design and construction relative to dams, tunnels, highways, slope stability and nuclear power plants. Selected case histories. Field trip and term paper required.

**Prerequisite:** GEOL 52078; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**GEOL 72082 INTRODUCTION TO SOIL MECHANICS 4 Credit Hours**

(Slashed with GEOL 62082) Engineering properties and engineering behavior of soils, including classification properties, compaction permeability strength and compressibility.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 5 other

**Grade Mode:** Standard Letter

**GEOL 72083 ROCK SLOPE STABILITY 3 Credit Hours**

(Slashed with GEOL 62083) Provide information used to recognize, avoid, design for control and correct slope movements in rocks; determination of shear strength along rock discontinuities; stability analysis of rock slopes.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**GEOL 72084 FOUNDATION ENGINEERING 3 Credit Hours**

(Slashed with GEOL 62084) Seepage and drainage of foundation soils. Subsurface investigations. Principles, design and construction of shallow and deep foundations. Earth retaining structures.

**Prerequisite:** GEOL 52078 or GEOL 72082; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**GEOL 73042 ENVIRONMENTAL GEOCHEMISTRY 3 Credit Hours**

(Slashed with GEOL 43042 and GEOL 53042) Explores chemical processes that influence the natural environment, including anthropogenic impacts. Topics include atmospheric chemistry and air pollution, energy and climate change, toxic organic compounds, water chemistry and water pollution, metals, soils, sediments and waste disposal. Environmental problem-solving using steady state and non-steady state box models, thermodynamics and energy transfer and chemical reactions and equilibria. Required half-day field trip.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**GEOL 73044 ENVIRONMENTAL ISOTOPES 3 Credit Hours**

(Slashed with GEOL 43044 and GEOL 53044) Deals with the fundamentals of isotope geochemistry and the application of primarily light stable isotopes (H, O, C, N) to Earth system processes (involving the hydrosphere, biosphere and upper geosphere).

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter



**GEOL 73063 SEDIMENTARY PETROLOGY 3 Credit Hours**  
(Slashed with GEOL 63063) Classification, texture, composition, provenance and diagenesis of sandstones and carbonates, following review of optical mineralogy. Petrographic microscopy and other laboratory techniques are emphasized.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**GEOL 74028 PALEOECOLOGY 3 Credit Hours**

(Slashed with GEOL 64028) Relationships between ancient organisms and their environments, as interpreted from fossils, enclosing rock strata and recent analogs. Field and laboratory studies. Saturday field trips.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**GEOL 74030 SYSTEMATIC INVERTEBRATE PALEONTOLOGY I 3 Credit Hours**

(Slashed with GEOL 64030) Detailed investigation and examination of important literature concerning taxonomic characters of invertebrate phyla: Protista, Porifera, Cnidaria and Bryozoa. Numerous oral reports, specimen examination.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**GEOL 74032 SYSTEMATIC INVERTEBRATE PALEONTOLOGY II 3 Credit Hours**

(Slashed with GEOL 64032) Detailed investigation and examination of important literature concerning taxonomic characters of invertebrate phyla: Brachiopoda, Mollusca, Arthropoda and Echinodermata. Numerous oral reports, specimen examination.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**GEOL 74036 CENOZOIC CLIMATE CHANGE 3 Credit Hours**

(Slashed with GEOL 64036) An overview of the concepts and principles involved in interpreting global and hemispheric Cenozoic climate change (past 65 million years). Emphasis on particular temporal and spatial scales and cycles. Extensive reading in scientific journals.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**GEOL 74038 PALEOLIMNOLOGY 3 Credit Hours**

(Slashed with GEOL 64038) An overview of significant topics and applications in paleolimnology of Holocene (last 10,000 years) and Pleistocene (last two million years) records, including current issues in environmental and climatic reconstruction. Extensive reading expected.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**GEOL 74052 GLACIERS AND GLACIATION 3 Credit Hours**

(Cross-listed with GEOG 71052, GEOG 41052, GEOG 51052) (Slashed with GEOL 44052, GEOL 54052) Examination of how glacial ice masses change the shape of the earth's surface, how they are integral to climate and sea level change and how they pose high risk hazards.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**GEOL 80095 ADVANCED TOPICS IN GEOLOGY 1-3 Credit Hours**

(Repeatable for credit) Advanced topics presented by visiting professors or one-time offerings presented by regular faculty.

**Prerequisite:** Doctoral standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 1-3 lecture

**Grade Mode:** Standard Letter

**GEOL 80098 RESEARCH 1-15 Credit Hours**

(Repeatable for credit) Research for doctoral students. Credits earned may be applied toward degree with departmental approval.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Research

**Contact Hours:** 1-15 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**GEOL 80199 DISSERTATION I 15 Credit Hours**

(Repeatable for credit) Doctoral dissertation, for which registration in at least two semesters is required first of which will be semester in which dissertation work is begun and continuing until the completion of 30 hours. rerequisite: Admission to candidacy for doctoral degree; and doctoral standing.

**Schedule Type:** Dissertation

**Contact Hours:** 15 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**GEOL 80299 DISSERTATION II 15 Credit Hours**

(Repeatable for credit) Continuing registration required of doctoral students who have completed the initial 30 hours of dissertation, continuing until all degree requirements are met.

**Prerequisite:** GEOL 80199; and doctoral standing.

**Schedule Type:** Dissertation

**Contact Hours:** 15 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

## German (GER)

**GER 11201 ELEMENTARY GERMAN I 4 Credit Hours**

An introduction to the German language in the context of the cultures of German-speaking lands.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 4 lecture

**Grade Mode:** Standard Letter

**Attributes:** TAG Foreign Language

**GER 11202 ELEMENTARY GERMAN II 4 Credit Hours**

A continuation of the introduction to the German language in the context of the cultures of German-speaking lands.

**Prerequisite:** GER 11201.

**Schedule Type:** Lecture

**Contact Hours:** 4 lecture

**Grade Mode:** Standard Letter

**Attributes:** TAG Foreign Language

**GER 21201 INTERMEDIATE GERMAN I 3 Credit Hours**

Continued development of speaking, listening, reading and writing skills using a variety of cultural materials.

**Prerequisite:** GER 11202.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** TAG Foreign Language

**GER 21202 INTERMEDIATE GERMAN II 3 Credit Hours**

Continuation of GER 21201.

**Prerequisite:** GER 21201.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** TAG Foreign Language

**GER 31095 SPECIAL TOPICS 1-3 Credit Hours**

(Repeatable for credit) Topic announced in schedule of classes.

**Prerequisite:** Junior standing.

**Schedule Type:** Lecture

**Contact Hours:** 1-3 lecture

**Grade Mode:** Standard Letter

**GER 31201 INTENSIVE GERMAN GRAMMAR 3 Credit Hours**

A systematic approach to German grammar and syntax.

**Prerequisite:** GER 21202.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**GER 31211 GERMAN COMPOSITION AND CONVERSATION 3 Credit Hours**

Grammar review and practice in writing and speaking German.

**Prerequisite:** GER 21202; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**GER 31215 GERMAN PHONETICS AND DICTION 3 Credit Hours**

Study of the German sound system with emphasis on pronunciation and intonation. Reading and performance of a series of skits and short plays.

**Prerequisite:** GER 21202.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**GER 31231 TRANSLATION PRACTICE: GERMAN 1 Credit Hour**

Translation practice with German texts using principles and techniques learned in the lecture class.

**Corequisite:** TRST 30230.

**Schedule Type:** Lecture

**Contact Hours:** 1 lecture

**Grade Mode:** Standard Letter

**GER 31240 CONVERSATION FOR BUSINESS AND SPECIAL PURPOSES: GERMAN 3 Credit Hours**

Introduction to the special vocabulary of business and other special subject areas; introduces the concept of language for special purposes and emphasizes the use of special vocabulary in conversations in business and other settings.

**Prerequisite:** GER 31211.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**GER 31303 INTRODUCTION TO GERMAN LITERATURE 3 Credit Hours**

Introduction to German literature and textual analysis.

**Prerequisite:** GER 21202 and GER 31201.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**GER 31421 GERMAN CIVILIZATION 3 Credit Hours**

A survey of German history and intellectual life to 1918; taught in German.

**Prerequisite:** Six hours upper division german courses.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**GER 41095 SPECIAL TOPICS 1-4 Credit Hours**

(Repeatable for credit) (Slashed with GER 51095) Topic announced in schedule of classes.

**Prerequisite:** Senior standing.

**Schedule Type:** Lecture

**Contact Hours:** 1-4 lecture

**Grade Mode:** Standard Letter

**GER 41096 INDIVIDUAL INVESTIGATION 1-3 Credit Hours**

(Repeatable for credit) (Slashed with GER 51096) Independent investigation of problems in German language or literature.

**Prerequisite:** 6 hours of upper division german; and special approval of the department chairperson.

**Schedule Type:** Individual Investigation

**Contact Hours:** 1-3 other

**Grade Mode:** Standard Letter-IP

**GER 41211 ADVANCED GERMAN COMPOSITION AND CONVERSATION 3 Credit Hours**

Advanced practice in speaking and writing German.

**Prerequisite:** GER 31211.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**GER 41216 CONTEMPORARY GERMAN CULTURE (ELR) (WIC) 3 Credit Hours**

(Slashed with GER 51216) A study of selected sociological, political, cultural and economic issues in contemporary German-speaking countries using readings, films and legal documents as the basis for discussions. Taught in German.

**Prerequisite:** Six hours of upper division german courses.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Experiential Learning Requirement, Writing Intensive Course

**GER 41230 ADVANCED TRANSLATION PRACTICE: GERMAN (ELR) (WIC) 3 Credit Hours**

Theory and practice course that discusses translation theory and emphasizes German-to-English translation of selected texts in business, technology, medicine and law.

**Prerequisite:** GER 31231.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Experiential Learning Requirement, Writing Intensive Course

**GER 41240 BUSINESS AND SPECIAL TEXTS: GERMAN 3 Credit Hours**

Survey of the typical text types of business in the German culture and language. Practice sessions focus on reading and understanding specialized texts, and on the translation and composition of selected special texts in German.

**Prerequisite:** GER 31211.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**GER 41323 GERMAN FAIRY TALES 3 Credit Hours**

(Slashed with GER 51323) An investigation in German fairy tales, from the Brothers Grimm to the literary fairy tales of later German authors.

**Prerequisite:** GER 31201 and GER 31211; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**GER 41324 GERMAN LITERATURE FOR CHILDREN AND ADOLESCENTS 3 Credit Hours**

(Slashed with GER 51324) An investigation into German literature for children and adolescents from the Middle Ages to modernity.

**Prerequisite:** GER 31201 and GER 31211; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**GER 41330 TWENTIETH-CENTURY GERMAN AUTHORS (ELR) (WIC) 3 Credit Hours**

(Slashed with GER 51330) A survey of the major movements and authors of the twentieth century.

**Prerequisite:** Special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Experiential Learning Requirement, Writing Intensive Course

**GER 41332 GERMAN LITERATURE BY WOMEN 3 Credit Hours**

(Slashed with GER 51332) Readings of works by female German authors. Taught in German.

**Prerequisite:** Junior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**GER 41334 THE GERMAN NOVELLA 3 Credit Hours**

(Slashed with GER 51334) Development of the German novella from the eighteenth century to the present. Readings of major works lectures analyses taught in German.

**Prerequisite:** Special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**GER 41338 GERMAN POETRY 3 Credit Hours**

An examination of the nature of poetry with particular attention to its development in Germany, Austria and Switzerland. Taught in German.

**Prerequisite:** Six hours of upper division german courses.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**GER 41340 HISTORY OF GERMAN LITERATURE TO 1750 3 Credit Hours**

A history of the development of German literature from the Germanic tribes through the Age of Enlightenment (the first half of the eighteenth century).

**Prerequisite:** GER 31303 and 31421.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**GER 41341 HISTORY OF GERMAN LITERATURE 1750 TO THE PRESENT 3 Credit Hours**

A history of the development of German literature from the Age of Sensibility (the second half of the eighteenth century) to the present.

**Prerequisite:** GER 31303 and 31421.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**GER 41365 CLASSICAL GERMAN LITERATURE (ELR) (WIC) 3 Credit Hours**

(Slashed with GER 51365) Reading and critical analysis of major works of the classical age with emphasis on Goethe.

**Prerequisite:** Special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Experiential Learning Requirement, Writing Intensive Course

**GER 41399 RESEARCH PROJECT IN GERMAN LITERATURE (ELR) 3 Credit Hours**

(Repeatable for credit) Thesis or other independent study.

**Prerequisite:** 6 hours at the 40000-level.

**Schedule Type:** Senior Project/Honors Thesis

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter-IP

**Attributes:** Experiential Learning Requirement

**GER 41731 SURVEY OF GERMAN CINEMA 3 Credit Hours**

(Slashed with GER 51731) A survey of major contributions to the German cinema from the beginnings to the present; taught in German.

**Prerequisite:** Six hours of upper division german courses.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**GER 51095 SPECIAL TOPICS 1-4 Credit Hours**

(Repeatable for credit) (Slashed with GER 41095) Topic announced in schedule of classes.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 1-4 lecture

**Grade Mode:** Standard Letter

**GER 51096 INDIVIDUAL INVESTIGATION 1-3 Credit Hours**

(Repeatable for credit) (Slashed with GER 41096) Independent investigation of problems in German language or literature. Permission of the department chair required.

**Prerequisite:** Graduate standing.

**Schedule Type:** Individual Investigation

**Contact Hours:** 1-3 other

**Grade Mode:** Standard Letter-IP

**GER 51212 STYLISTICS 3 Credit Hours**

Development of written German style through selected readings, textual analysis and stylistic exercises.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**GER 51216 CONTEMPORARY GERMAN CULTURE 3 Credit Hours**

(Slashed with GER 41216) A study of selected sociological, political, cultural and economic issues in contemporary German-speaking countries, using readings, films and legal documents as the basis for discussion. Taught in German.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**GER 51323 GERMAN FAIRY TALES 3 Credit Hours**

(Slashed with GER 41323) An investigation into German fairy tales, from the Brothers Grimm to the literary fairy tales of later German authors.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**GER 51324 GERMAN LITERATURE FOR CHILDREN AND ADOLESCENTS 3 Credit Hours**

(Slashed with GER 41324) An investigation into German literature for children and adolescents from the Middle Ages to modernity.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**GER 51330 20TH-CENTURY GERMAN AUTHORS 3 Credit Hours**

(Slashed with GER 41330) A survey of the major movements and authors of the twentieth century.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**GER 51332 GERMAN LITERATURE BY WOMEN 3 Credit Hours**

(Slashed with GER 41332) Readings of works by female German authors. Taught in German.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**GER 51334 THE GERMAN NOVELLA 3 Credit Hours**

(Slashed with GER 41334) Development of the German novella from the 18th century to the present. Readings of major works, lectures, analyses; taught in German.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**GER 51340 HISTORY OF GERMAN LITERATURE TO 1750 3 Credit Hours**

A history of the development of German literature from the Germanic tribes through the Age of Enlightenment (the first half of the eighteenth century).

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**GER 51341 HISTORY OF GERMAN LITERATURE 1750 TO THE PRESENT 3 Credit Hours**

A history of the development of German literature from the Age of Sensibility (the second half of the eighteenth century) to the present.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**GER 51365 CLASSICAL GERMAN LITERATURE 3 Credit Hours**

(Slashed with GER 41365) Reading and critical analysis of major works of the classical age with emphasis on Goethe.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**GER 51731 SURVEY OF GERMAN CINEMA 3 Credit Hours**

(Slashed with GER 41731) A survey of major contributions to the German cinema from the beginnings to the present; taught in German.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**GER 61001 GRADUATE RESEARCH AND WRITING IN GERMAN 3 Credit Hours**

Individual instruction and assistance with problems encountered in academic research and writing in German. Required of all graduate students in their first semester of graduate work.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**GER 61010 THE PRACTICE OF GERMAN TRANSLATION 2 Credit Hours**

Students apply linguistic and communication science concepts to case studies of language mediation.

**Prerequisite:** Graduate standing.

**Corequisite:** TRST 60010.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**GER 61091 VARIABLE TOPIC SEMINAR 3 Credit Hours**

(Repeatable for credit) Topic announced in schedule of classes.

**Prerequisite:** Graduate standing.

**Schedule Type:** Seminar

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**GER 61199 THESIS I 2-6 Credit Hours**

Thesis students must register for a total of 6 hours, 2 to 6 hours in a single semester distributed over several semesters if desired.

**Prerequisite:** Graduate standing.

**Schedule Type:** Masters Thesis

**Contact Hours:** 2-6 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**GER 61240 LITERARY AND CULTURAL TRANSLATION 3 Credit Hours**

Translating documents from a variety of literary and cultural sources, including literature, expository and journalistic prose, scholarly treatises and essays. Translation into German will also be emphasized.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**GER 61250 COMMERCIAL, LEGAL AND DIPLOMATIC TRANSLATION 3 Credit Hours**

An introduction to methods and resources for the translation of commercial, economic, financial, legal, diplomatic and governmental documents.

**Prerequisite:** TRST 60010; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**GER 61251 SCIENTIFIC, TECHNICAL AND MEDICAL TRANSLATION 3 Credit Hours**

An introduction to methods and resources for the translation of scientific, technical, industrial and medical documents.

**Prerequisite:** TRST 60010; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**GER 61299 THESIS II 2 Credit Hours**

Thesis students must continue registration each semester until all degree requirements are met.

**Prerequisite:** GER 61199; and graduate standing.

**Schedule Type:** Masters Thesis

**Contact Hours:** 2 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**GER 61350 SEMINAR ON THE LYRIC 3 Credit Hours**

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**GER 61398 RESEARCH 1-15 Credit Hours**

(Repeatable for credit) Research for master's level graduate students. Credit toward degree requirements may be given with department approval.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Research

**Contact Hours:** 1-15 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**GER 61901 READING GERMAN FOR GRADUATE STUDENTS 4 Credit Hours**

Introduction to the fundamentals of German grammar for graduate students. Practice in reading and translation.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 4 lecture

**Grade Mode:** Standard Letter

**GER 61902 READING GERMAN FOR GRADUATE STUDENTS 3 Credit Hours**

Continued practice in reading and translation. Independent study of scholarly texts in the student's own discipline.

**Prerequisite:** GER 61901; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**GER 61979 CASE STUDY IN TRANSLATION 3 Credit Hours**

Students will be responsible for a major translation and a terminology glossary as well as a critical analysis of the source text, the problems encountered during the translation process and the strategies used to solve them.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Satisfactory/Unsatisfactory

## Gerontology (GERO)

**GERO 14029 INTRODUCTION TO GERONTOLOGY (DIVD) (KSS) 3 Credit Hours**

Interdisciplinary approach to the study of the aging process.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Diversity Domestic, Kent Core Social Sciences, Transfer Module Social Sciences

**GERO 40656 PSYCHOLOGY OF AGING 3 Credit Hours**

(Slashed with GERO 50656 and GERO 70656) Exploration of basic research and theory on the psychological consequences of aging and psychological factors that affect the behavior of older persons.

**Prerequisite:** PSYC 11762.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**GERO 41095 SPECIAL TOPICS IN GERONTOLOGY 1-4 Credit Hours**

(Repeatable for credit) (Slashed with GERO 51095) Discussion of a major topic within a specific field of gerontology.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 1-4 lecture

**Grade Mode:** Standard Letter

**GERO 41096 INDIVIDUAL INVESTIGATION 1-3 Credit Hours**

(Repeatable for credit) Independent study in gerontology.

**Prerequisite:** Written permission from instructor.

**Schedule Type:** Individual Investigation

**Contact Hours:** 1-3 other

**Grade Mode:** Standard Letter



**GERO 44030 ADULT DEVELOPMENT AND AGING (WIC) 3 Credit Hours**

(Slashed with GERO 54030) Examines developmental processes across adulthood. Evaluation of theoretical models and scientific literature.

**Prerequisite:** Admission into the HDFS Professional Phase.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Writing Intensive Course

**GERO 44031 SOCIAL POLICY AND COMMUNITY RESOURCES FOR OLDER ADULTS 3 Credit Hours**

Overview of national, state and local public policy affecting older adults. Legislation, funding, planning and the service delivery system are examined.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**GERO 44092 PRACTICUM IN GERONTOLOGY (ELR) 3,6 Credit Hours**

(Repeatable for a total of 6 credit hours) Observation and participation in long-term care or community agencies serving older adults. One class discussion per week. Major GPA of 2.250 required.

**Prerequisite:** HDFS 44018; and human development and family studies majors; and senior standing; and special approval.

**Schedule Type:** Practical Experience

**Contact Hours:** 1 lecture, 14-35 other

**Grade Mode:** Standard Letter

**Attributes:** Experiential Learning Requirement

**GERO 50656 PSYCHOLOGY OF AGING 3 Credit Hours**

(Slashed with GERO 40656 and GERO 70656) Exploration of basic research and theory on the psychological consequences of aging and psychological factors that affect the behavior of older persons.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**GERO 51095 SPECIAL TOPICS IN GERONTOLOGY 1-4 Credit Hours**

(Repeatable for credit) (Slashed with GERO 41095) Discussion of a major topic or topics within the field of gerontology.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 1-4 lecture

**Grade Mode:** Standard Letter

**GERO 51096 INDIVIDUAL INVESTIGATION IN GERONTOLOGY 1-3 Credit Hours**

(Repeatable for credit) Independent study in the area of gerontology.

**Prerequisite:** Graduate standing.

**Schedule Type:** Individual Investigation

**Contact Hours:** 1-3 other

**Grade Mode:** Standard Letter

**GERO 54030 ADULT DEVELOPMENT AND AGING 3 Credit Hours**

(Slashed with GERO 44030) Examines developmental processes across adulthood. Evaluation of theoretical models and scientific literature.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**GERO 61091 SEMINAR IN GERONTOLOGY 1-3 Credit Hours**

(Repeatable for credit) Seminar dealing with topics in the field of gerontology.

**Prerequisite:** Graduate standing.

**Schedule Type:** Seminar

**Contact Hours:** 1-3 other

**Grade Mode:** Standard Letter

**GERO 61191 INTERDISCIPLINARY SEMINAR IN GERONTOLOGY 3 Credit Hours**

(Repeatable for credit) Course is designed to assist students in developing the knowledge and skills needed to understand the major issues in gerontological theory, research and practice from a multi-disciplinary perspective.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Seminar

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**GERO 70656 PSYCHOLOGY OF AGING 3 Credit Hours**

(Slashed with GERO 40656 and GERO 50656) Exploration of basic research and theory on the psychological consequences of aging and psychological factors that affect the behavior of older persons.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

## Greek (GRE)

**GRE 14201 ELEMENTARY CLASSICAL GREEK I 4 Credit Hours**

An introduction to the classical Greek language in the context of ancient Greek culture.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 4 lecture

**Grade Mode:** Standard Letter

**GRE 14202 ELEMENTARY CLASSICAL GREEK II 4 Credit Hours**

A continuation of the introduction to the classical Greek language in the context of ancient Greek culture.

**Prerequisite:** GRE 14201.

**Schedule Type:** Lecture

**Contact Hours:** 4 lecture

**Grade Mode:** Standard Letter

**GRE 24201 INTERMEDIATE CLASSICAL GREEK I: READINGS 3 Credit Hours**

Excerpts from classical Greek literature with emphasis on translation into English.

**Prerequisite:** GRE 14202.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**GRE 24202 INTERMEDIATE CLASSICAL GREEK II: READINGS 3 Credit Hours**

Excerpts from classical Greek literature with emphasis on both prose (e.g. Plato) and poetry (e.g. Euripides).

**Prerequisite:** GRE 24201.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**GRE 34370 PLATO:APOLOGY AND PHAEDO 3 Credit Hours**

Readings in the original Greek of Plato's dialogues centering on the trial, conviction and death of Socrates.

**Prerequisite:** GRE 24202.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**GRE 34371 HOMER 3 Credit Hours**

Selections from the Iliad or Odyssey studied from a literary and grammatical standpoint.

**Prerequisite:** GRE 24202.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**GRE 34372 ADVANCED READINGS IN GREEK 3 Credit Hours**

Readings in the original Greek of authors in poetry and prose studied from a literary and grammatical standpoint.

**Prerequisite:** GRE 24202; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**GRE 40393 VARIABLE TITLE WORKSHOP 1-6 Credit Hours**

(Repeatable for credit) (Slashed with GRE 50393) Workshops individually designed to provide instruction and training in specific areas of Greek studies.

**Prerequisite:** Department permission.

**Schedule Type:** Workshop

**Contact Hours:** 1-6 other

**Grade Mode:** Satisfactory/Unsatisfactory

**GRE 44096 INDIVIDUAL INVESTIGATION 1-3 Credit Hours**

(Repeatable for credit) Investigation of problems in Greek literature or linguistics.

**Prerequisite:** Special approval.

**Schedule Type:** Individual Investigation

**Contact Hours:** 1-3 other

**Grade Mode:** Standard Letter-IP

**GRE 50393 VARIABLE TITLE WORKSHOP IN GREEK 2-4 Credit Hours**

(Repeatable for credit) (Slashed with GRE 40393) Variable topic offered as need arises to train in specific area of field.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Workshop

**Contact Hours:** 2-4 other

**Grade Mode:** Satisfactory/Unsatisfactory

## Green and Alternate Energy (GAE)

**GAE 32000 FUEL CELL TECHNOLOGY 3 Credit Hours**

Designed to provide a general perspective to fuel cell technology. Students are introduced to the various types of fuel cells, historical perspective, terminology, applications, fuel cell operation, basic electrochemical and thermodynamics principles involved in fuel cells, fuel cell components, materials and systems. Students learn basic fuel cell design principles and calculations.

**Prerequisite:** PHY 13012 or PHY 13002.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**GAE 42002 ENERGY MANAGEMENT SYSTEMS 3 Credit Hours**

This course covers an introduction to energy fundamentals, energy systems, lighting, heating, ventilation and air conditioning, control systems for energy management. Alternative energy sources and green buildings will also be covered. The course focuses on improving energy efficiency, reducing energy use, and reducing energy cost.

**Prerequisite:** PHY 12202 or PHY 13002 or PHY 13012.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**GAE 42004 ADVANCED FUEL CELL TECHNOLOGY 3 Credit Hours**

Covers the theory and applications of fuel cell technology with an emphasis on proton exchange membrane fuel cells (PEMFCs). Students learn fuel cell component, stack and system design principles and fabrication methods, performance characterization, fuel cell testing and diagnostics methods. Students are introduced to transport phenomena in fuel cells. Introduction to hydrogen storage, generation and delivery, as well as hydrogen safety and regulations.

**Prerequisite:** GAE 32000.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

## Health Education (HED)

**HED 11570 PERSONAL HEALTH 3 Credit Hours**

This course examines the leading causes of death and disability in the United States with an emphasis on the application of knowledge and skills to reduce risk and enhance the quality of life.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HED 11590 COMMUNITY HEALTH EDUCATION 3 Credit Hours**

Identification of community health problems and measures for control. Emphasizes principles, objectives and methods of community health education.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HED 13510 WINNING COMBINATION:HEALTH AND ATHLETES 1 Credit Hour**

An exploration of strategies for promoting healthy lifestyles for athletes. The course is reserved for varsity athletes.

**Prerequisite:** Special approval.

**Schedule Type:** Lecture

**Contact Hours:** 1 lecture

**Grade Mode:** Standard Letter

**HED 14020 MEDICAL TERMINOLOGY 3 Credit Hours**

Identification of the meaning of various roots and terms and combining forms that are components of medical words, including anatomical physiological and pathological therapeutic terminology and implications for health literacy.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HED 21030 INTRODUCTION TO HEALTH EDUCATION 3 Credit Hours**

This course introduces the student to the health education profession. Roles and responsibilities of health educators in a variety of occupational settings are described.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HED 21050 HEALTH EDUCATION THEORIES 3 Credit Hours**

Application of various attitude and behavior models to health and illness behavior in order to develop a framework for educational intervention.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HED 30000 TEACHING HEALTH TO YOUNG LEARNERS 3 Credit Hours**

Investigate current health issues relevant to children in primary grades, and identify educational strategies to increase student health knowledge, foster positive health attitudes and promote healthy behaviors.

**Prerequisite:** None.

**Schedule Type:** Lecture, Practical Experience

**Contact Hours:** 2.5 lecture, 1.5 other

**Grade Mode:** Standard Letter

**HED 32530 DRUG USE AND MISUSE 3 Credit Hours**

Introduction to the study of drug/alcohol abuse. Basic pharmacology of drug actions is reviewed. Common myths/misconceptions about drug/alcohol use are examined. Current drug problems and related prevention/treatment issues are analyzed.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HED 32542 METHODS AND APPLICATIONS OF HEALTH EDUCATION (WIC) 5 Credit Hours**

Analysis/observation, demonstration and experience in the teaching-learning process utilizing methods, materials and resources appropriate to the preparation of professional health educators. This course includes 50 field/clinical hours. Students are required to complete Bureau of Criminal Investigation and Identification (BCII) and Federal Bureau of Investigation (FBI) background checks and submit the results to authorized personnel at their assigned school/agency before the first day of the semester in which student teaching/internship will take place.

**Prerequisite:** HED 11570.

**Schedule Type:** Lecture

**Contact Hours:** 5 lecture

**Grade Mode:** Standard Letter

**Attributes:** Writing Intensive Course

**HED 32544 HUMAN SEXUALITY 3 Credit Hours**

A study of the role and meaning of human sexuality throughout the life cycle for self and society.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HED 32565 MARKETING IN HEALTH EDUCATION 3 Credit Hours**

Examines the basic elements of marketing processes as they relate to promoting health in communities. Emphasis on application of marketing planning, concepts and practices for service providers involved with health education.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HED 32575 CONSUMER HEALTH 3 Credit Hours**

An overview of the health marketplace including health products, services, financing, promotional practices and consumer protection laws.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HED 34050 PROGRAM PLANNING AND EVALUATION IN HEALTH EDUCATION 3 Credit Hours**

Provides students with the knowledge and skills to assess health resources and needs, develop health programs to meet specific needs in particular populations and determine appropriate measures to evaluate the effectiveness of health programs.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HED 34060 SMALL GROUP PROCESS 2 Credit Hours**

(Cross-listed with CES 37800) Students learn to understand the dynamics of problem solving groups and how to become effective leaders and members. Topics include climate, goals, decision making, communication, leadership, membership. Experience-based learning combined with conceptualizing.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**HED 36048 EMERGENCY MEDICAL TRAINING 5 Credit Hours**

Basic immediate care procedures for victims of acute illnesses and accidents. Course does not conform to EMT-B National Standard Curriculum as adopted by the Ohio Department of Public Safety, Division of EMS.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 5 lecture

**Grade Mode:** Standard Letter

**HED 40093 VARIABLE TITLE WORKSHOP IN HEALTH EDUCATION AND PROMOTION 1-3 Credit Hours**

(Repeatable for credit) (Slashed with HED 50093 and 70093) Discussion of major issues in health and safety education. Content emphasis and prerequisites vary depending on workshop.

**Prerequisite:** HED 11590; and special approval.

**Schedule Type:** Workshop

**Contact Hours:** 1-3 other

**Grade Mode:** Satisfactory/Unsatisfactory

**HED 42041 HEALTH COACHING 3 Credit Hours**

(Slashed with HED 52041) Techniques of health coaching and motivational interviewing applied to health education. Individual and group approaches relative to personal, family and societal health issues.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HED 42222 ADULTING 101' SEVEN DIMENSIONS TO A HEALTHY ADULTHOOD 2 Credit Hours**

The transition from college to post-college life can be uncertain. A design for the initial post-college years can alleviate the anxiety and stress that are often experienced. This course will examine issues related to a 7 dimensional model of health-financial, environmental, emotional, intellectual, physical, social, occupational-and apply those dimensions to a post-college life design process.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**HED 42392 STUDENT TEACHING IN HEALTH EDUCATION (ELR) 9 Credit Hours**

Provides a twelve week student teaching experience. See student teaching section of catalog. Students are required to complete Bureau of Criminal Investigation and Identification (BCII) and Federal Bureau of Investigation (FBI) background checks and submit the results to authorized personnel at their assigned school/agency before the first day of the semester in which student teaching/ internship will take place.

**Prerequisite:** Eligibility for admission to student teaching and admission to advanced study; and official valid certification of child safety training, approved basic life support and ALICE training must be presented to the campus office of clinical experience or designated faculty/staff at regional campuses as prerequisite for student teaching.

**Schedule Type:** Practical Experience

**Contact Hours:** 27 other

**Grade Mode:** Satisfactory/Unsatisfactory

**Attributes:** Experiential Learning Requirement

**HED 42575 HEALTH AND LEARNING: STRATEGIES FOR STUDENTS AND TEACHERS 3 Credit Hours**

(Slashed with HED 52575) Focus on health issues/education/ environment policy and practice/community strategies to respond to threats confronting students utilizing a coordinated school/community strategy to promote health to improve academic outcomes. CPR and first aid certification required for completion of course.

**Prerequisite:** Admission to advanced study.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HED 44025 WOMEN'S HEALTH ISSUES 3 Credit Hours**

(Slashed with HED 54025) Traditional and feminist analysis of women's health issues and the health educational responses to those issues.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HED 44051 BIOBEHAVIORAL ASPECTS OF DISEASE PREVENTION IN HEALTH EDUCATION AND PROMOTION 3 Credit Hours**

The etiology and pathogenesis of major diseases are studied from a biopsychosocial perspective with an emphasis on implications for disease prevention, health promotion and behavioral intervention.

**Prerequisite:** Junior or senior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HED 44092 INTERNSHIP IN COMMUNITY HEALTH EDUCATION (ELR) 9 Credit Hours**

(Repeatable for credit) Participation for one academic semester in the health education activities of an approved agency, organization or industry.

**Prerequisite:** Senior standing; and special approval.

**Schedule Type:** Practical Experience

**Contact Hours:** 27 other

**Grade Mode:** Satisfactory/Unsatisfactory

**Attributes:** Experiential Learning Requirement

**HED 44095 SPECIAL TOPICS: HEALTH EDUCATION AND PROMOTION 1-3 Credit Hours**

(Repeatable for credit) (Slashed with HED 54095) Selected topics related to public health issues facing professionals in communities, schools, health care settings and the worksite.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 1-3 lecture

**Grade Mode:** Standard Letter

**HED 44096 INDIVIDUAL INVESTIGATION IN HEALTH EDUCATION AND PROMOTION 1-3 Credit Hours**

(Repeatable for credit) (Slashed with HED 54096 and 74096) Independent reading and/or research directed by a HED faculty member.

**Prerequisite:** Permission.

**Schedule Type:** Individual Investigation

**Contact Hours:** 1-3 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**HED 44543 ADMINISTRATION OF SCHOOL HEALTH PROGRAMS 3 Credit Hours**

(Slashed with HED 54543) Organizational design and administration of a comprehensive school health program including health services, instruction and environment. This course includes 25 field/clinical hours. CPR and first aid certification required for completion of course.

**Prerequisite:** Admission to advanced study.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HED 44544 SEXUALITY EDUCATION PROGRAMS 3 Credit Hours**

(Slashed with HED 54544) This course prepares the student to develop, implement and evaluate sexuality education programs in school and community settings.

**Prerequisite:** HED 32544.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

- HED 44550 DRUG ABUSE AND VIOLENCE EDUCATION PROGRAMS 3 Credit Hours**  
(Slashed with HED 54550) Drug abuse and violence prevention from theoretical, philosophical, empirical and practical perspectives. Application of theories to plan, implement, and evaluate drug and violence education programs.  
**Prerequisite:** HED 32530.  
**Schedule Type:** Lecture  
**Contact Hours:** 3 lecture  
**Grade Mode:** Standard Letter
- HED 46052 STRESS: RECOGNITION AND MANAGEMENT 2 Credit Hours**  
(Slashed with HED 56052) An examination of stress, its role as a predisposing factor for various illnesses and diseases, types of stressors, the body's reaction to stress, and techniques for recognizing, preventing and reducing stress.  
**Prerequisite:** None.  
**Schedule Type:** Lecture  
**Contact Hours:** 2 lecture  
**Grade Mode:** Standard Letter
- HED 46057 ADVANCED HUMAN SEXUALITY 3 Credit Hours**  
(Slashed with HED 56057) Selected aspects of human sexuality; history, cross-cultural perspectives, medical/surgical conditions and sex therapy and counseling.  
**Prerequisite:** HED 32544.  
**Schedule Type:** Lecture  
**Contact Hours:** 3 lecture  
**Grade Mode:** Standard Letter
- HED 46070 HEALTH RELATED ASPECTS OF AGING 3 Credit Hours**  
(Slashed with HED 56070) Theories of biological aging and identification of major health hazards, age-related diseases and age changes, their prevention and control. The health care delivery system for the elderly.  
**Prerequisite:** None.  
**Schedule Type:** Lecture  
**Contact Hours:** 3 lecture  
**Grade Mode:** Standard Letter
- HED 47070 AIDS: ISSUES, EDUCATION AND PREVENTION 3 Credit Hours**  
(Slashed with HED 57070) This course provides an extensive overview of the human immunodeficiency virus epidemic as it has developed and exists today. A particular emphasis will be given to aids education and prevention issues and strategies.  
**Prerequisite:** None.  
**Schedule Type:** Lecture  
**Contact Hours:** 3 lecture  
**Grade Mode:** Standard Letter
- HED 47091 CURRENT ISSUES IN HEALTH EDUCATION AND PROMOTION 1-3 Credit Hours**  
(Repeatable for credit) (Slashed with HED 57091 and 77091) Public health issues facing professionals in communities, schools, health care settings and the worksite.  
**Prerequisite:** Junior or senior standing.  
**Schedule Type:** Seminar  
**Contact Hours:** 1-3 other  
**Grade Mode:** Standard Letter
- HED 48092 FIELD EXPERIENCE IN HEALTH EDUCATION AND PROMOTION (ELR) 1-3 Credit Hours**  
(Repeatable for credit) (Slashed with HED 58092 and 78092) Observation and participation in educational and promotional activities of a public health agency, school or health care facility. Joint university agency supervision.  
**Prerequisite:** Permission.  
**Schedule Type:** Field Experience  
**Contact Hours:** 3-9 other  
**Grade Mode:** Satisfactory/Unsatisfactory-IP  
**Attributes:** Experiential Learning Requirement
- HED 49525 INQUIRY SEMINAR INTO PROFESSIONAL PRACTICE 3 Credit Hours**  
Interdisciplinary inquiry into teaching as a professional practice in health education; emphasis on teacher as disciplined investigator. Utilization of teaching and learning technology.  
**Prerequisite:** Admission to advanced study.  
**Pre/corequisite:** HED 42392.  
**Schedule Type:** Seminar  
**Contact Hours:** 3 other  
**Grade Mode:** Standard Letter
- HED 50093 VARIABLE TITLE WORKSHOP IN HEALTH EDUCATION AND PROMOTION 1-3 Credit Hours**  
(Repeatable for credit) (Slashed with HED 40093 and 70093) Discussion of major issues in health and safety education. Content emphasis vary depending on workshop.  
**Prerequisite:** Graduate standing.  
**Schedule Type:** Workshop  
**Contact Hours:** 1-3 other  
**Grade Mode:** Satisfactory/Unsatisfactory
- HED 52041 HEALTH COACHING 3 Credit Hours**  
(Slashed with HED 42041) Techniques of health coaching and motivational interviewing applied to health education. Individual and group approaches relative to personal, family and societal health issues.  
**Prerequisite:** Graduate standing.  
**Schedule Type:** Lecture  
**Contact Hours:** 3 lecture  
**Grade Mode:** Standard Letter
- HED 52575 HEALTH AND LEARNING: STRATEGIES FOR STUDENTS AND TEACHERS 3 Credit Hours**  
(Slashed with HED 42575) Focus on health issues/education/ environment policy and practice/community strategies to respond to threats confronting students, utilizing a coordinated school community strategy to promote health and improve academic outcomes. CPR first aid certification required for completion of course.  
**Prerequisite:** Graduate standing.  
**Schedule Type:** Lecture  
**Contact Hours:** 3 lecture  
**Grade Mode:** Standard Letter
- HED 54025 WOMEN'S HEALTH ISSUES 3 Credit Hours**  
(Slashed with HED 44025) Traditional and feminist analysis of women's health issues and the health educational responses to those issues.  
**Prerequisite:** Graduate standing.  
**Schedule Type:** Lecture  
**Contact Hours:** 3 lecture  
**Grade Mode:** Standard Letter



**HED 54051 BIOBEHAVIORAL ASPECTS OF DISEASE PREVENTION IN HEALTH EDUCATION AND PROMOTION 3 Credit Hours**

(Slashed with HED 44051) The etiology and pathogenesis of major diseases are studied from a biopsychosocial perspective with an emphasis on implications for disease prevention, health promotion and behavioral intervention.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HED 54095 SPECIAL TOPICS:HEALTH EDUCATION AND PROMOTION 1-3 Credit Hours**

(Repeatable for credit) (Slashed with HED 44095) Selected topics related to public health issues facing professionals in communities, schools, health care settings and the worksite.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 1-3 lecture

**Grade Mode:** Standard Letter

**HED 54096 INDIVIDUAL INVESTIGATION IN HEALTH EDUCATION AND PROMOTION 1-3 Credit Hours**

(Repeatable for credit) (Slashed with HED 44096 and 74096) Independent reading and/or research directed by a graduate faculty member.

Students are required to complete Bureau of Criminal Investigation and Identification (BCII) and Federal Bureau of Investigation (FBI) background checks and submit the results to authorized personnel at their assigned school/agency before the first day of the semester in which student teaching/ internship will take place.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Individual Investigation

**Contact Hours:** 1-3 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**HED 54543 ADMINISTRATION OF SCHOOL HEALTH PROGRAMS 3 Credit Hours**

(Slashed with HED 44543) Organizational design and administration of a comprehensive school health program including health services, instruction and environment. This course includes 25 field/clinical hours. CPR and first aid certification required for completion of course.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HED 54544 SEXUALITY EDUCATION PROGRAMS 3 Credit Hours**

(Slashed with HED 44544) This course prepares the student to develop, implement and evaluate sexuality education programs in school and community settings.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HED 54550 DRUG ABUSE AND VIOLENCE EDUCATION PROGRAMS 3 Credit Hours**

(Slashed with HED 44550) Drug abuse and violence prevention from theoretical, philosophical, empirical, and practical perspectives. Application of theories to plan, implement, and evaluate drug and violence education programs.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HED 56052 STRESS: RECOGNITION AND MANAGEMENT 2 Credit Hours**

(Slashed with HED 46052) An examination of stress, its role as a predisposing factor for various illnesses and diseases, types of stressors, the body's reaction to stress, and techniques for recognizing, preventing and reducing stress.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**HED 56057 ADVANCED HUMAN SEXUALITY 3 Credit Hours**

(Slashed with HED 46057) Selected aspects of human sexuality: history, cross-cultural perspectives, medical/surgical therapy and counseling.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HED 56070 HEALTH RELATED ASPECTS OF AGING 3 Credit Hours**

(Slashed with HED 46070) Theories of biological aging and identification of major health hazards, age-related diseases and age changes, their prevention and control. The health care delivery system for the elderly.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HED 57070 AIDS:ISSUES, EDUCATION AND PREVENTION 3 Credit Hours**

(Slashed with HED 47070) This course provides an extensive overview of the human immunodeficiency virus epidemic as it has developed and exists today. A particular emphasis will be given to AIDS education and prevention issues and strategies.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HED 57091 CURRENT ISSUES IN HEALTH EDUCATION AND PROMOTION 1-3 Credit Hours**

(Repeatable for credit) (Slashed with HED 47091 and 77091) Public health issues facing professionals in communities, schools, health care settings and the worksite.

**Prerequisite:** Graduate standing.

**Schedule Type:** Seminar

**Contact Hours:** 1-3 other

**Grade Mode:** Standard Letter

**HED 58092 FIELD EXPERIENCE IN HEALTH EDUCATION AND PROMOTION 1-3 Credit Hours**

(Repeatable for credit) (Slashed with HED 48092 and 78092) Observation and participation in educational and promotional activities of a public health agency, school, or health care facility joint university-agency supervision. Students are required to complete Bureau of Criminal Investigation and Identification (BCII) and Federal Bureau of Investigation (FBI) background checks and submit the results to authorized personnel at their assigned school/agency before the first day of the semester in which student teaching/ internship will take place.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Field Experience

**Contact Hours:** 3-9 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**HED 60199 THESIS I 2-6 Credit Hours**

Thesis students must register for a total of 6 hours, 2 to 6 hours in a single semester distributed over several semesters if desired.

**Prerequisite:** Graduate standing.

**Schedule Type:** Masters Thesis

**Contact Hours:** 2-6 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**HED 60299 THESIS II 2 Credit Hours**

Thesis students must continue registration each semester until all degree requirements are met.

**Prerequisite:** HED 60199; and graduate standing.

**Schedule Type:** Masters Thesis

**Contact Hours:** 2 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**HED 64030 INTRODUCTION TO RESEARCH AND DATA ANALYSIS IN HEALTH EDUCATION AND PROMOTION 3 Credit Hours**

Introduction of research methods in the field of health education and health promotion. Includes basic knowledge and skills in research design and concepts of descriptive and inferential statistics.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HED 64050 HEALTH BEHAVIOR 3 Credit Hours**

(Slashed with HED 84050) Analysis of a broad range of theoretical and empirical models of health and illness behavior.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HED 64055 NEEDS ASSESSMENT AND EVALUATION IN HEALTH PROMOTION 3 Credit Hours**

(Slashed with HED 84055) Students will assess individual and community needs for health promotion programs based on multiple sources of health data. Students will develop a rational plan to meet identified needs.

**Prerequisite:** HED 64061 and HED 64050 and HED 64063 and HED 64059; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HED 64057 PROGRAM PLANNING AND IMPLEMENTATION IN HEALTH PROMOTION 3 Credit Hours**

(Slashed with HED 84057) Students will develop, implement, and evaluate a health education and promotion program plan specific to a target audience and health issue.

**Prerequisite:** HED 64050 and HED 64055 and HED 64061 and HED 64063; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HED 64058 DEVELOPMENTAL APPROACHES IN TEACHING SCHOOL HEALTH EDUCATION 3 Credit Hours**

(Slashed with HED 84058) Develop and implement developmentally appropriate health education unit plans, methods, techniques, and strategies with K-12 school populations.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HED 64059 COMMUNICATION AND MARKETING IN HEALTH EDUCATION AND PROMOTION 3 Credit Hours**

(Slashed with HED 84059) Introduction to the theory and practice of planning, implementing, and evaluating marketing and communication programs in health promotion.

**Prerequisite:** HED 64050 and HED 64061; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HED 64061 FOUNDATIONS OF HEALTH EDUCATION AND PROMOTION 3 Credit Hours**

(Slashed with HED 84061) Historical, sociological and philosophical factors that have influenced definitions and the practice of health education and promotion are studied. Professional associations/ leadership, government initiatives, standards of practice and accreditations are examined.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HED 64062 ADMINISTRATION AND GRANT WRITING IN HEALTH PROMOTION 3 Credit Hours**

(Slashed with HED 84062) Basic concepts in the administration of health education promotion programs and grant writing. Coordination of program services, consultative relationships, management of human and fiscal resources, and organizational leadership are addressed as well as grant writing skills.

**Prerequisite:** HED 64061 and Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HED 64063 STRATEGIES IN HEALTH EDUCATION AND PROMOTION 3 Credit Hours**

(Slashed with HED 84063) Health education and promotion methods, techniques and strategies are presented for a variety of audiences, learning environments and intervention levels.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HED 64070 WORKSITE HEALTH PROMOTION 3 Credit Hours**

(Slashed with HED 84070) Program planning and evaluation of health promotion programs in business and industry with an emphasis on the role of health educators.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HED 64080 ADVOCACY AND POLICY ISSUES IN HEALTH EDUCATION AND PROMOTION 3 Credit Hours**

(Slashed with HED 84080) Emphasizes the advocacy role of health educators. Includes use of research results to develop, analyze and influence health policy.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HED 64094 COLLEGE TEACHING OF HEALTH EDUCATION AND PROMOTION 2 Credit Hours**

(Repeatable for credit) (Cross-listed with HED 84094) Guided experiences in teaching selected undergraduate courses.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Practical Experience

**Contact Hours:** 2 other

**Grade Mode:** Satisfactory/Unsatisfactory

**HED 64096 INDIVIDUAL INVESTIGATION: READINGS IN HEALTH EDUCATION AND PROMOTION 1-3 Credit Hours**

(Slashed with HED 84096) Independent study of approved topics in health and safety education related to the student's special interests. Adviser's permission required to repeat registration one time.

**Prerequisite:** Health Education or Public Health major; and graduate standing; and special approval.

**Schedule Type:** Individual Investigation

**Contact Hours:** 3-9 other

**Grade Mode:** Standard Letter-S/U

**HED 64098 PROJECT IN HEALTH EDUCATION AND PROMOTION 1-3 Credit Hours**

(Repeatable for credit) (Slashed with HED 84098) Research or individual investigation for master's level graduate students.

**Prerequisite:** Grading standing; and special approval.

**Schedule Type:** Research

**Contact Hours:** 1-3 other

**Grade Mode:** Standard Letter

**HED 70093 VARIABLE TITLE WORKSHOP IN HEALTH EDUCATION AND PROMOTION 1-3 Credit Hours**

(Repeatable for credit) (Slashed with HED 40093 and 50093) Discussion of major issues in health and safety education. Content emphasis and prerequisites vary depending on workshop.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Workshop

**Contact Hours:** 1-3 other

**Grade Mode:** Satisfactory/Unsatisfactory

**HED 74096 INDIVIDUAL INVESTIGATION IN HEALTH EDUCATION AND PROMOTION 1-3 Credit Hours**

(Repeatable for credit) (Slashed with HED 44096 and 54096) Independent reading and/or research directed by a graduate faculty member.

Students are required to complete Bureau of Criminal Investigation and Identification (BCII) and Federal Bureau of Investigation (FBI) background checks and submit the results to authorized personnel at their assigned school/agency before the first day of the semester in which student teaching/ internship will take place.

**Prerequisite:** Doctoral standing; and special approval.

**Schedule Type:** Individual Investigation

**Contact Hours:** 1-3 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**HED 77091 CURRENT ISSUES IN HEALTH EDUCATION AND PROMOTION 1-3 Credit Hours**

(Repeatable for credit) (Slashed with HED 47091 and 57091) Public health issues facing professionals in communities, schools, health care settings and the worksite.

**Prerequisite:** Graduate standing.

**Schedule Type:** Seminar

**Contact Hours:** 1-3 other

**Grade Mode:** Standard Letter

**HED 78092 FIELD EXPERIENCE IN HEALTH EDUCATION AND PROMOTION 1-3 Credit Hours**

(Repeatable for credit) (Slashed with HED 48092 and 58092) Observation and participation in educational and promotional activities of a public health agency, school or health care facility joint university-agency supervision. Students are required to complete Bureau of Criminal Investigation and Identification (BCII) and Federal Bureau of Investigation (FBI) background checks and submit the results to authorized personnel at their assigned school/agency before the first day of the semester in which student teaching/ internship will take place.

**Prerequisite:** Doctoral standing; and special approval.

**Schedule Type:** Field Experience

**Contact Hours:** 3-9 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**HED 80199 DISSERTATION I 15 Credit Hours**

(Repeatable for credit) Registration for two semesters required, first semester dissertation work begins and continues until completion of 30 hours.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Dissertation

**Contact Hours:** 15 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**HED 80292 PRACTICUM IN HEALTH EDUCATION AND PROMOTION 3 Credit Hours**

(Repeatable for credit) In this course, students obtain permission to work with an individual faculty member on research, community projects, or other professional activities in various health education settings (school, community, medical care, worksite). Assignments are individualized to meet the needs of the practicum experience.

**Prerequisite:** Doctoral standing; and special approval.

**Schedule Type:** Practical Experience

**Contact Hours:** 9 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**HED 80299 DISSERTATION II 15 Credit Hours**

(Repeatable for credit) Continuing registration required of doctoral students who have completed the initial 30 hours of dissertation and continuing until degree requirements are met.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Dissertation

**Contact Hours:** 15 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**HED 81100 RESIDENCY SEMINAR: SYNTHESIS OF LITERATURE IN HEALTH EDUCATION AND PROMOTION 3 Credit Hours**

Exploration of philosophical, theoretical and empirical issues in health education and promotion. Students synthesize courses, research and practice in preparation for comprehensive examinations.

**Prerequisite:** Doctoral standing; and special approval of instructor.

**Schedule Type:** Seminar

**Contact Hours:** 3 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**HED 81150 SEMINAR: PROFESSIONAL DEVELOPMENT IN HEALTH EDUCATION AND PROMOTION 3 Credit Hours**

Focuses on the process, practice and documentation of professional development in health education and promotion in the areas of instruction, program development, research and evaluation.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Satisfactory/Unsatisfactory

**HED 81200 RESIDENCY SEMINAR: RESEARCH PROPOSAL, DEVELOPMENT AND PRESENTATION 3 Credit Hours**

Review of the role of research and scholarly pursuits in the professorate, the professional health education literature, and in the development and dissemination of a range of scholarly products. Identification of requisite elements of a dissertation in health education and promotion. Refinement of a professional vita, updating of doctoral program prospectus, specification of dissertation topic, identification of potential dissertation committee members, development and presentation of draft dissertation proposal.

**Prerequisite:** Doctoral standing; and special approval of instructor.

**Schedule Type:** Seminar

**Contact Hours:** 3 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**HED 81300 HEALTH EDUCATION PRACTICE 3 Credit Hours**

Investigation of various health education settings including analysis of agency programming efforts and comparison to evidence-based practice. Application of community assessment, socioecological model, and community-based participatory research principles. Analysis of how health education theory and research are implemented in various practice settings.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HED 81400 RESEARCH DISSEMINATION AND TECHNICAL WRITING IN HEALTH EDUCATION AND PROMOTION 3 Credit Hours**

Examination and practice of technical writing for research proposals, technical reports, and journal publications in health education and promotion. Other methods of disseminating research such as preparation and submission of conference presentation applications and writing as part of consultative relationships with community agencies is explored.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HED 81450 ADVANCED PROGRAM EVALUATION IN HEALTH EDUCATION AND PROMOTION 3 Credit Hours**

A review of evaluation methods used in health education programs. Emphasis is placed on data collection procedures, linking program activities to outcomes, participant attrition and reporting of the results.

**Prerequisite:** HED 64055 and HED 64057; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HED 81550 APPLIED THEORY IN HEALTH EDUCATION RESEARCH AND PRACTICE 3 Credit Hours**

Examination of theory/models/hypotheses applied to specific health behaviors. Emphasis on operationalization of theoretical constructs.

**Prerequisite:** HED 64050 or HED 74050.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HED 84030 INTRODUCTION TO RESEARCH AND DATA ANALYSIS IN HEALTH EDUCATION AND PROMOTION 3 Credit Hours**

Introduction of research methods in the field of health education and health promotion. Includes basic knowledge and skills in research design and concepts of descriptive and inferential statistics.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HED 84050 HEALTH BEHAVIOR 3 Credit Hours**

(Slashed with HED 64050) Analysis of a broad range of theoretical and empirical models of health and illness behavior.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HED 84051 BIOBEHAVIORAL ASPECTS OF DISEASE PREVENTION IN HEALTH EDUCATION AND PROMOTION 3 Credit Hours**

The etiology and pathogenesis of major diseases are studied from a biopsychosocial perspective with an emphasis on implications for disease prevention, health promotion and behavioral intervention.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HED 84055 NEEDS ASSESSMENT AND EVALUATION IN HEALTH PROMOTION 3 Credit Hours**

(Slashed with HED 64055) Students will assess individual and community needs for health promotion programs based on multiple sources of health data. Students will develop a rational plan to meet identified needs.

**Prerequisite:** HED 64050 or 84050; and HED 64059 or 84059; and HED 64061 or 84061; and HED 64063 or 84063; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HED 84057 PROGRAM PLANNING AND IMPLEMENTATION IN HEALTH PROMOTION 3 Credit Hours**

(Slashed with HED 64057) Students will develop, implement, and evaluate a health education and promotion program plan specific to a target audience and health issue.

**Prerequisite:** HED 64050 or 84050; and HED 64055 or 84055; and HED 64061 or 84061; and HED 64063 or 84063; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HED 84058 DEVELOPMENTAL APPROACHES IN TEACHING SCHOOL HEALTH EDUCATION 3 Credit Hours**

(Slashed with HED 64058) Develop and implement developmentally appropriate health education unit plans, methods, techniques, and strategies with K12 school populations.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter



**HED 84059 COMMUNICATION AND MARKETING IN HEALTH EDUCATION AND PROMOTION 3 Credit Hours**

(Slashed with HED 64059) Introduction to the theory and practice of planning, implementing, and evaluating marketing and communication programs in health promotion.

**Prerequisite:** HED 64050 or 84050; and HED 64061 or 84061; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HED 84061 FOUNDATIONS OF HEALTH EDUCATION AND PROMOTION 3 Credit Hours**

(Slashed with HED 64061) Historical, sociological and philosophical factors that have influenced definitions and the practice of health education and promotion are studied. Professional associations/ leadership, government initiatives, standards of practice and accreditations are examined.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HED 84062 ADMINISTRATION AND GRANT WRITING IN HEALTH PROMOTION 3 Credit Hours**

(Slashed with HED 64062) Basic concepts in the administration of health education promotion programs and grant writing. Coordination of program services, consultative relationships, management of human and fiscal resources, and organizational leadership are addressed as well as grant writing skills.

**Prerequisite:** HED 64061 or 84061; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HED 84063 STRATEGIES IN HEALTH EDUCATION AND PROMOTION 3 Credit Hours**

(Slashed with HED 64063) Health education and promotion methods, techniques and strategies are presented for a variety of audiences, learning environments and intervention levels.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HED 84066 HEALTH IN THE DEVELOPING NATIONS 3 Credit Hours**

Overview of national development, review of problems process and strategy of health development.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HED 84070 WORKSITE HEALTH PROMOTION 3 Credit Hours**

(Slashed with HED 64070) Program planning and evaluation of health promotion programs in business and industry with an emphasis on the role of health educators.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HED 84080 ADVOCACY AND POLICY ISSUES IN HEALTH EDUCATION AND PROMOTION 3 Credit Hours**

(Slashed with HED 64080) Emphasizes the advocacy role of health educators. Includes use of research results to develop analyze and influence health policy.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HED 84094 COLLEGE TEACHING OF HEALTH EDUCATION AND PROMOTION 2 Credit Hours**

(Repeatable for credit) (Slashed with HED 64094) Guided experiences in teaching selected undergraduate courses.

**Prerequisite:** Doctoral standing; and special approval.

**Schedule Type:** Practical Experience

**Contact Hours:** 2 other

**Grade Mode:** Satisfactory/Unsatisfactory

**HED 84096 INDIVIDUAL INVESTIGATION: READINGS IN HEALTH EDUCATION AND PROMOTION 1-3 Credit Hours**

(Slashed with HED 64096) Independent study of approved topics in health and safety education related to the student's special interests. Adviser's permission required to repeat registration one time.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Individual Investigation

**Contact Hours:** 3-9 other

**Grade Mode:** Standard Letter-S/U

**HED 84098 PROJECT IN HEALTH EDUCATION AND PROMOTION 1-3 Credit Hours**

(Repeatable for credit) (Slashed with HED 64098) Research or individual investigation for doctoral level graduate students.

**Prerequisite:** Doctoral standing and special approval.

**Schedule Type:** Research

**Contact Hours:** 1-3 other

**Grade Mode:** Standard Letter

## Health Informatics (HI)

**HI 41095 SPECIAL TOPICS IN HEALTH INFORMATICS 1-3 Credit Hours**

(Repeatable for credit) Topics could include current or emerging issues in health informatics. Topics will be announced in schedule of classes. Offered irregularly as resources and opportunities permit.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 1-3 lecture

**Grade Mode:** Standard Letter

**HI 41096 INDIVIDUAL INVESTIGATION IN HEALTH INFORMATICS 1-3 Credit Hours**

(Repeatable for credit) Research or individual investigation in areas not covered in the existing curriculum for baccalaureate level students at or above the junior level. In-progress (IP) mark permissible.

**Prerequisite:** Special approval.

**Schedule Type:** Individual Investigation

**Contact Hours:** 3-9 other

**Grade Mode:** Standard Letter-IP



**HI 60401 HEALTH INFORMATICS MANAGEMENT 3 Credit Hours**

Covers the areas encompassing health informatics management including the planning, selection, deployment, and management of electronic medical records (EMR), management decision-support and tracking systems (DSS), and other health information technologies (HIT).

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HI 60402 LEGAL ISSUES IN HEALTH INFORMATICS 3 Credit Hours**

(Slashed with HI 80402) Introduction to the fundamentals of law for Health Informatics and Information Management. Elements of the course include general legal principles and healthcare; legal electronic medical records (EMR); Health Insurance Portability and Accountability Act (HIPAA) privacy rules and security rules; access, requests and disclosure of health information; required reporting and mandatory disclosure laws; risk management and quality improvement; compliance; workforce overview; related ethics and social issues.

**Prerequisite:** Graduate standing.

**Pre/corequisite:** HI 60401.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HI 60403 HEALTH INFORMATION SYSTEMS 3 Credit Hours**

(Slashed with HI 80403) Introduction to information systems and their applications in healthcare used for managerial and clinical support. Study the fundamentals of information systems, including Electronic Medical Records (EMR), information security. Understand the role of standardized codes, vocabularies and terminologies used in health information systems. Analysis of management and enterprise systems, identify the key elements to manage information resources effectively and the trends affecting the development of health information systems and networks.

**Prerequisite:** Graduate standing.

**Pre/corequisite:** HI 60401.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HI 60410 HEALTH RECORDS MANAGEMENT 3 Credit Hours**

(Slashed with HI 80410) Conceptual foundations and practicum for health records management, including the planning, implementation and operation of electronic medical records (EMR); the management of EMR in management and enterprise systems; identifying, selecting and evaluating EMR and health information systems, applications, and repositories; and issues of data quality, integrity, migration, and interoperability.

**Prerequisite:** Graduate standing.

**Pre/corequisite:** HI 60401.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HI 60411 CLINICAL ANALYTICS 3 Credit Hours**

(Slashed with HI 80411) The use of well-defined and well-integrated clinical analytics throughout the healthcare value chain can be transformative. Through careful implementation of health analytics, hospitals can transform unwieldy amalgamations of data into information that can: improve patient outcomes, increase safety, enhance operational efficiency and support public health. Given the immense size of the data challenge, the distinctness and geographic spread of many healthcare-related activities, and the fact that so many healthcare activities are conducted by different entities which must interact with each other, there is really no other way to provide operations management tools necessary to deliver personalized medicine and to control spiraling costs. Since clinical analytics is an immature discipline, we carefully examine the practices of those institutions who are standard setters in the industry.

**Prerequisite:** Graduate standing.

**Pre/corequisite:** HI 60401.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HI 60412 CLINICAL DECISION SUPPORT 3 Credit Hours**

Provides a practical survey of clinical decision support systems that collect clinical data and enable the transition to clinical knowledge in real world applications intended to improve quality and safety of patient care. Students become familiar with the basic requirements for clinical decision support systems and the challenges associated with the development and deployment of new applications within the healthcare setting.

**Prerequisite:** HI 60401; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HI 60413 CHANGE MANAGEMENT IN HEALTH INFORMATICS 3 Credit Hours**

(Slashed with HI 80413) Designed to cover the process of change management in large healthcare organizations in light of current trends. Topics related to technology requirements, technology implementations, risk assessment and buy-in are among those covered.

**Prerequisite:** HI 60401; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HI 60414 HUMAN FACTORS AND USABILITY IN HEALTH INFORMATICS 3 Credit Hours**

(Slashed with HI 80414) Provides students with the foundational principles of usability and human factors as applied to safety and quality in health informatics technology. Course readings and materials review the concepts of human factors, usability and the cognitive consequences of health information technology on clinical performance and decision making. Attention is given to the role of mobile computing in health care, as well as information visualization.

**Prerequisite:** Graduate standing.

**Pre/corequisite:** HI 60401.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HI 60415 HEALTH INFORMATICS INQUIRY AND ASSESSMENT 3 Credit Hours**

(Slashed with HI 80415) Provides a foundation for understanding research in health informatics with a focus on user and experience design research. Through lectures, readings, discussions and assignments, students review user research methods, data collection techniques and communication strategies within the healthcare context. Students then apply this knowledge to creating a research plan for assessing health information technology and communicating results to key organizational stakeholders.

**Prerequisite:** HI 60401 with a minimum C grade; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HI 60416 HEALTH INFORMATICS ISSUES: POLICY, POLITICS AND ETHICS 3 Credit Hours**

This course uses a policy analysis lens to critically examine issues related to the use of information technology in healthcare from an ethical, political and regulatory perspective. The primary focus will be on the United States, but international approaches will also be discussed. Legislation affecting Health Information Technology area will be examined including the American Reinvestment and Recovery Act, HITECH section; Affordable Care Act and Health Insurance Portability and Accountability Act (HIPAA) of 1996. Topics and issues related to Health Informatics including structure of health administrative and delivery systems, assessment of population health, models of health care delivery, access and quality of care will also be discussed.

**Prerequisite:** HI 60401; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HI 60417 PUBLIC HEALTH INFORMATICS 3 Credit Hours**

Public Health Informatics (PHI) is an emergent, interdisciplinary field that focuses on the systematic management and dynamic application of information resources to enhance public health practice, education and research. As an emerging subset of Health Informatics, PHI is practiced by individuals, governmental and nongovernmental organizations at the international, national, regional, state and local levels. PHI deals with the collection and analysis of vital statistics data through surveillance; information creation; information storage and retrieval; visualization and graphics; dissemination; use of information for policy, decision making and trend tracking. The purpose of this course is to provide students with an introductory overview of the vast and dynamic field of PHI, including definitions, approaches, competencies, applications and informatics principles applied in public health settings.

**Prerequisite:** HI 60401 or HI 80401; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HI 60418 CLINICAL ANALYTICS II 3 Credit Hours**

As the volume and complexity of health data continues to grow, analysis of that data requires more advanced tools to transform that data into meaningful information for clinical decisions. Not only is data from electronic medical records (EMRs) growing at a rapid pace but new types of data are available for analysis, such as, genomic data and patient generated data. These advanced analytic tools break down into three areas, each of which will be examined in this course: new data warehousing techniques to manage big data, new analytic tools including cognitive computing and predictive analytics and new ways to visualize the data. All of these techniques transform the raw data into use cases, such as, population health, precision medicine and clinical decision support using artificial intelligence and machine learning which will also be addressed in this course.

**Prerequisite:** HI 60411; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HI 60636 STANDARDIZED TERMINOLOGIES IN HEALTHCARE 3 Credit Hours**

Introduce various types of standardized healthcare terminologies (controlled vocabularies) used in the Electronic Health Records (EHR) and Health information Exchange (HIE). Present the benefits of using standardized terminologies, as well as the interoperability and Meaningful Use (MU) requirements and standards. Explain the purposes, structures, components, and application of the most widely implemented standardized terminologies such as ICD, CPT, SNOMED CT, LOINC, RxNorm, ICNP, and UMLS.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HI 60691 SEMINAR IN HEALTH INFORMATICS 1-3 Credit Hours**

(Repeatable for credit). Advanced research by students who are qualified to examine problems of certain special areas related to concentrations of study in health informatics.

**Prerequisite:** Graduate standing.

**Schedule Type:** Seminar

**Contact Hours:** 1-3 other

**Grade Mode:** Standard Letter

**HI 60693 VARIABLE TITLE WORKSHOP IN HEALTH INFORMATICS 1-3 Credit Hours**

(Repeatable for credit). Intensive examination of special topics of interest to those involved in health informatics program. Maximum workshop credit for the health informatics program is 4 credit hours.

**Prerequisite:** Graduate standing.

**Schedule Type:** Workshop

**Contact Hours:** 1-3 other

**Grade Mode:** Satisfactory/Unsatisfactory

**HI 60792 ELECTIVE INTERNSHIP IN HEALTH INFORMATICS 2-3 Credit Hours**

Supervised work experience in health informatics of a professional nature of not less than 100 clock hours (for 2 credit hours) or 150 clock hours (for 3 credit hours) with directed preparation of a reflection paper.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Practical Experience

**Contact Hours:** 2-3 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**HI 61095 SPECIAL TOPICS IN HEALTH INFORMATICS 1-3 Credit Hours**

(Repeatable for credit) Offered irregularly as resources and or opportunities permit. Topics could include current or emerging issues in health informatics. Specific topics are announced in the Schedule of Classes.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 1-3 lecture

**Grade Mode:** Standard Letter

**HI 61096 INDIVIDUAL INVESTIGATION IN HEALTH INFORMATICS 1-3 Credit Hours**

(Repeatable for credit) Research or individual investigation in areas not covered by the existing curriculum for master's level students. Maximum 6 credit hours towards the health informatics major within the Master of Science degree.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Individual Investigation

**Contact Hours:** 3-9 other

**Grade Mode:** Standard Letter-IP

**HI 66092 MASTER'S INTERNSHIP IN HEALTH INFORMATICS 3 Credit Hours**

Supervised work experience of an advanced professional nature that concentrates on developing skills in areas of health informatics and integrates their knowledge from all HI courses and experiences. Students must have completed a minimum of 30 credit hours towards the health informatics major within the master of science degree.

**Prerequisite:** HI 60401, HI 60402, HI 60403, HI 60410, HI 60411, KM 60301 and LIS 60636; and minimum 3.000 overall GPA; and special approval.

**Schedule Type:** Practical Experience

**Contact Hours:** 10 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**HI 66098 MASTER'S PROJECT IN HEALTH INFORMATICS 3 Credit Hours**

Provides a means for the application of the knowledge, research and competencies learned through study in health informatics to the development of an information system, product, setting or service. Students must have completed a minimum 30 credit hours towards the MS-HI program prior to registration.

**Prerequisite:** HI 60401, HI 60402, HI 60403, HI 60410, HI 60411, KM 60301 and LIS 60636; and minimum overall 3.000 GPA; and special approval.

**Schedule Type:** Master's Project

**Contact Hours:** 3 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**HI 66198 MASTER'S RESEARCH PAPER IN HEALTH INFORMATICS 3 Credit Hours**

Under the advisement of a faculty member, students will complete a research paper that serves as a culminating experience for the M.S.-HI degree. Cumulative GPA of 3.000 is required prior to enrolling in the course. Students must have completed a minimum of 30 credit hours the MS-HI program prior to registration.

**Prerequisite:** HI 60401, HI 60402, HI 60403, HI 60410, HI 60411, KM 60301 and LIS 60636; and minimum 3.000 overall GPA; and graduate standing; and special approval.

**Schedule Type:** Master's Project

**Contact Hours:** 3 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**HI 66199 THESIS I 2-6 Credit Hours**

Thesis students must register for a total of 6 hours, 2 to 6 hours in a single semester distributed over several semesters if desired. Students must have completed a minimum 30 credit hours towards the MS-HI program prior to registration.

**Prerequisite:** HI 60401, HI 60402, HI 60403, HI 60410, HI 60411, KM 60301 and LIS 60636; and minimum 3.000 overall GPA; and graduate standing; and special approval.

**Schedule Type:** Masters Thesis

**Contact Hours:** 2-6 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**HI 66299 THESIS II 2 Credit Hours**

Thesis students must continue registration each semester until all degree requirements are met.

**Prerequisite:** HI 66199; and graduate standing; and special approval.

**Schedule Type:** Masters Thesis

**Contact Hours:** 2 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**HI 80401 HEALTH INFORMATICS MANAGEMENT 3 Credit Hours**

Covers the areas encompassing Health informatics management including the planning, selection, deployment, and management of electronic medical records (EMR), management decision-support and tracking systems (DSS), and other health information technologies (HIT).

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HI 80402 LEGAL ISSUES IN HEALTH INFORMATICS 3 Credit Hours**

(Slashed with HI 60402) Introduction to the fundamentals of law for Health Informatics and Information Management. Elements of the course include general legal principles and healthcare; legal electronic medical records (EMR); Health Insurance Portability and Accountability Act (HIPAA) privacy rules and security rules; access, requests and disclosure of health information; required reporting and mandatory disclosure laws; risk management and quality improvement; compliance; workforce overview; related ethics and social issues.

**Prerequisite:** HI 80401; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HI 80403 HEALTH INFORMATION SYSTEMS 3 Credit Hours**

(Slashed with HI 60403) Introduction to information systems and their applications in healthcare used for managerial and clinical support. Study the fundamentals of information systems, including Electronic Medical Records (EMR), information security. Understand the role of standardized codes, vocabularies and terminologies used in health information systems. Analysis of management and enterprise systems, identify the key elements to manage information resources effectively and the trends affecting the development of health information systems and networks.

**Prerequisite:** HI 80401; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HI 80410 HEALTH RECORDS MANAGEMENT 3 Credit Hours**

(Slashed with HI 60410) Conceptual foundations and practicum for health records management, including the planning, implementation and operation of electronic medical records (EMR); the management of EMR in management and enterprise systems; identifying, selecting and evaluating EMR and health information systems, applications, and repositories; and issues of data quality, integrity, migration, and interoperability.

**Prerequisite:** HI 80401; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HI 80411 CLINICAL ANALYTICS 3 Credit Hours**

(Slashed with HI 60411) The use of well-defined and well integrated clinical analytics throughout the healthcare value chain can be transformative. Through careful implementation of health analytics, hospitals can transform unwieldy amalgamations of data into information that can: Improve patient outcomes, increase safety, enhance operational efficiency and support public health. Given the immense size of the data challenge, the distinctness and geographic spread of many healthcare-related activities, and the fact that so many healthcare activities are conducted by different entities which must interact with each other, there is really no other way to provide operations management tools necessary to deliver personalized medicine and to control spiraling costs. Since clinical analytics is an immature discipline, we carefully examine the practices of those institutions who are standard setters in the industry.

**Prerequisite:** HI 80401; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HI 80412 CLINICAL DECISION SUPPORT 3 Credit Hours**

(Slashed with HI 60412) Provides a practical survey of clinical decision support systems that collect clinical data and enable the transition to clinical knowledge in real world applications intended to improve quality and safety of patient care. Students become familiar with the basic requirements for clinical decision support systems and the challenges associated with the development and deployment of new applications within the healthcare setting.

**Prerequisite:** HI 80401; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HI 80413 CHANGE MANAGEMENT IN HEALTH INFORMATICS 3 Credit Hours**

(Slashed with HI 60413) Designed to cover the process of change management in large healthcare organizations in light of current trends. Topics related to technology requirements, technology implementations, risk assessment, end user computing and buy-in are among those covered.

**Prerequisite:** HI 80401 with a minimum C grade; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HI 80414 HUMAN FACTORS AND USABILITY IN HEALTH INFORMATICS 3 Credit Hours**

(Slashed with HI 60414) Provides students with the foundational principles of usability and human factors as applied to safety and quality in health informatics technology. Course readings and materials review the concepts of human factors, usability, and the cognitive consequences of health information technology on clinical performance and decision making. Attention is given to the role of mobile computing in health care, as well as information visualization.

**Prerequisite:** HI 80401 with a minimum grade of C; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HI 80415 HEALTH INFORMATICS INQUIRY AND ASSESSMENT 3 Credit Hours**

(Slashed with HI 60415) This course will provide a foundation for understanding research in health informatics with a focus on user and experience design research. Through course lectures, readings, discussions and assignments, students will review user research methods, data collection techniques and communication strategies within the healthcare context. Students will then apply this knowledge to creating a research plan for assessing health information technology and communicating results to key organizational stakeholders.

**Prerequisite:** HI 80401 with a minimum C grade; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HI 80417 PUBLIC HEALTH INFORMATICS 3 Credit Hours**

Public Health Informatics (PHI) is an emergent, interdisciplinary field that focuses on the systematic management and dynamic application of information resources to enhance public health practice, education and research. As an emerging subset of Health Informatics, PHI is practiced by individuals, governmental and nongovernmental organizations at the international, national, regional, state and local levels. PHI deals with the collection and analysis of vital statistics data through surveillance; information creation; information storage and retrieval; visualization and graphics; dissemination; use of information for policy, decision making and trend tracking. The purpose of this course is to provide students with an introductory overview of the vast and dynamic field of PHI, including definitions, approaches, competencies, applications and informatics principles applied in public health settings.

**Prerequisite:** HI 60401 or HI 80401; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HI 80691 SEMINAR IN HEALTH INFORMATICS 1-3 Credit Hours**

(Repeatable for credit) Advanced research by students who are qualified to examine problems of certain special areas related to concentrations of study in health informatics.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Seminar

**Contact Hours:** 1-3 other

**Grade Mode:** Standard Letter

**HI 81095 SPECIAL TOPICS IN HEALTH INFORMATICS 1-3 Credit Hours**

(Repeatable for credit) Offered irregularly as resources and or opportunities permit. Topics could include current or emerging issues in health informatics. Specific topics are announced in the Schedule of Classes.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 1-3 lecture

**Grade Mode:** Standard Letter

**HI 81096 INDIVIDUAL INVESTIGATION IN HEALTH INFORMATICS 1-3 Credit Hours**

Research or individual investigation for doctoral level students.

**Prerequisite:** Doctoral standing; and special approval.

**Schedule Type:** Individual Investigation

**Contact Hours:** 3-9 other

**Grade Mode:** Standard Letter-IP

## Health Policy and Management (HPM)

**HPM 50196 INDIVIDUAL INVESTIGATION IN HEALTH POLICY AND MANAGEMENT 1-3 Credit Hours**

(Repeatable for maximum 6 credits) Individual graduate investigation or research in areas related to health policy and management.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Individual Investigation

**Contact Hours:** 1-3 other

**Grade Mode:** Standard Letter-IP

**HPM 52015 EMERGING ISSUES IN PUBLIC HEALTH POLICY AND MANAGEMENT 3 Credit Hours**

An overview of emerging issues in the field of public health.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HPM 52016 PUBLIC HEALTH ADMINISTRATION 3 Credit Hours**

Public health administration comprises efforts to improve the health of communities. Provides an overview for public health administration and practice, including organization, law, legislative relations, financing, workforce issues, leadership and surveillance.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HPM 52017 HEALTHCARE LAW AND REGULATION 3 Credit Hours**

Healthcare is one of the most heavily regulated industries in the United States. In order to contain spiraling costs, the federal and state governments are focusing on individual provider conduct in the context of fraud, waste, and abuse scrutiny. This course covers the underlying theories behind healthcare law and regulation as well as specific provisions affecting the organization, delivery, and payment of primary health services. Administrators and clinicians will gain a basic understanding of the regulatory environment and provisions impacting their practice.

**Prerequisite:** HPM 52016; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HPM 53003 HEALTH CARE SYSTEMS 3 Credit Hours**

Provides a systems approach to delivering health care and public health services in the US. Includes an overview of public health, outpatient, inpatient, managed care, long term care and health services for special populations.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HPM 53004 PUBLIC HEALTH POLICY, LAW AND ETHICS 3 Credit Hours**

Provides a comprehensive review of health policymaking, public health law and ethical principles as applied to public health decision making.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HPM 53005 FINANCIAL MANAGEMENT FOR PUBLIC HEALTH ORGANIZATIONS 3 Credit Hours**

Provides an overview of financial management of public health organizations. Topics include planning for public health program budgeting, understanding costs and short and long term financing, accountability and control, reporting results and financial statement and financial conditions analysis.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HPM 53006 COST BENEFIT ANALYSIS IN PUBLIC HEALTH PROGRAMS 3 Credit Hours**

Provides an overview of cost-benefit analysis as applied to the evaluation of public health programs. Students apply principles of cost benefit analysis and related cost utility analysis to case studies in the public health sector.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HPM 53007 PUBLIC HEALTH PROGRAMS: PLANNING, IMPLEMENTATION AND EVALUATION 3 Credit Hours**

Overview of developing, implementing and evaluating public health programs. Examines how public health programs can target different levels within a population, different determinants of health and strategies and interventions.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HPM 53008 FOUNDATIONS FOR EFFECTIVE PUBLIC HEALTH LEADERSHIP 3 Credit Hours**

Intended to provide students with an initial exploration of the leadership practices of public health leaders with an understanding of the basic skill set necessary for successful leadership on a continuing basis.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter



**HPM 53009 WHOLE SYSTEMS APPROACHES TO LEADING ORGANIZATIONAL CHANGE IN PUBLIC HEALTH 3 Credit Hours**

Intended to provide students with an initial exploration and overview of whole systems approaches to organizational change in public health settings, a more detailed working knowledge of key whole systems methodologies, and a detailed working knowledge and practical experience with one of the most frequently used and favored whole systems approaches.

**Prerequisite:** Graduate standing.

**Pre/corequisite:** HPM 53008.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HPM 53010 COMMUNITY HEALTH NEEDS ASSESSMENT 3 Credit Hours**

This course covers concepts and methods relevant to community health needs assessment, such as systems thinking, the use of quantitative and qualitative methods, primary and secondary data, and the role of community assessment in current national policy, including the Affordable Care Act and on community health improvement. Students will draw from multiple disciplines to assess health status and its determinants (social, behavioral, and environmental), needs for health services, and the capacity and resources of the local community. Students will also learn to facilitate and evaluate the use of data for decision-making by partnerships, organizations and policy makers.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HPM 53011 PUBLIC HEALTH EVALUATION METHODS 3 Credit Hours**

This course provides an in-depth review of major concepts, methods, and issues involved in evaluating public health programs and policy interventions. Students learn skills needed to conduct and use evaluations, with an emphasis on conceptual, methodological, organizational, political, and ethical aspects associated with public health evaluation. Topics will include development of evaluation questions, types of program evaluation (process, formative, impact, outcome), evaluation design (experimental, quasiexperimental, and nonexperimental designs), collection of evaluation data, and dissemination of evaluation results. Students gain practical experience through a series of exercises. Examples of effective methods and approaches will be elaborated for multiple public health contexts.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HPM 53012 OBAMACARE AND NATIONAL HEALTH REFORM 3 Credit Hours**

This course provides an overview of health reform in the United States, starting with the history of health reform, the passage of the ACA, and the future of health reform. It includes political and policy discourse leading up to the Patient Protection and Affordable Care Act (ACA) its passage, analysis of the law's impact, Supreme Court rulings and other legal challenges affecting the legislation, and the future of public health and health care in the context of health reform. The impact of health reform on health care financing, quality, and public health will also be covered. Students will draw upon and apply an interdisciplinary literature base to analyze health reform.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HPM 53013 SEX: A WICKED PUBLIC HEALTH PROBLEM 3 Credit Hours**

Wicked problems is a term developed in the 1970s by systems thinkers and planners, Horst Rittel and Melvin Webber (1973), to describe complex social problems that are resistant to solution. The term has recently been applied to public health issues that have proven to be difficult to address and resistant to mitigation. Sexual and reproductive health behaviors, attitudes, and cultural norms often produce problems at the individual and population levels that meet the criteria for designation as wicked problems. Effectively addressing these kinds of problems requires a correct understanding and application of public health principles and practices.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HPM 60191 VARIABLE CONTENT SEMINAR IN HEALTH POLICY AND MANAGEMENT 1-3 Credit Hours**

(Repeatable for a maximum of 6 credit hours) (Slashed with HPM 80191)

Seminar on current and important topics in health policy and management. Subject matter varies depending on the topic.

**Prerequisite:** Graduate standing.

**Schedule Type:** Seminar

**Contact Hours:** 1-3 lecture

**Grade Mode:** Standard Letter

**HPM 60192 PRACTICUM EXPERIENCE IN HEALTH POLICY AND MANAGEMENT 3,6 Credit Hours**

Observational and participation in public health activities of a public health agency, hospital or other approved organization. The student completes the field experience with joint supervision from the university and approved organization or agency.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Practical Experience

**Contact Hours:** 9-18 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**HPM 60195 SPECIAL TOPICS IN HEALTH POLICY AND MANAGEMENT 1-3 Credit Hours**

(Repeatable for a maximum of 6 credit hours) (Slashed with HPM 80195)  
Special topics to sample new offerings on topics in health policy and management.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 1-3 lecture

**Grade Mode:** Standard Letter

**HPM 64002 GLOBAL HEALTH IMMERSION: GENEVA, SWITZERLAND 3 Credit Hours**

(Slashed with HPM 84002) Participants explore a number of health concerns, policies and challenges with global importance and implications. Students investigate current global health policies and themes, and become familiar with the major players in global health including governmental and nongovernmental organizations and multinational agencies. Presentations are given by experts currently working in various regions of the world to solve such pressing global problems as HIV/AIDS, postwar trauma, tuberculosis, refugee health, non-communicable disease prevention and environmental contamination.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HPM 72015 EMERGING ISSUES IN PUBLIC HEALTH POLICY AND MANAGEMENT 3 Credit Hours**

(Slashed with HPM 52015) An overview of emerging challenges in public health policy and management. Examples include pandemic H1N1 response, bio preparedness, national health care reform, public health financing challenges, global tuberculosis drug resistance.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HPM 72030 GRANT WRITING IN PUBLIC HEALTH 3 Credit Hours**

Doctoral students should take this course at the end of the program of study. Students in this doctoral level course for Public Health learn the basics of grant writing for federal (NIH) and non-federal funding agencies with a particular emphasis on the components required of most grant proposal submitted for funding. This includes rationale for seeking funds, collaborations with community organizations, and working with consultants and subcontractors. Participants also learn about the basic sections of grant writing such as specific aims and hypotheses, developing your literature review, background and significance, research design and methodology, developing a budget, and conducting research with human subjects. Participants have the opportunity to write sample grant proposals, learn about the review and scoring process and post-award grant management.

**Prerequisite:** Doctoral standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HPM 73021 HEALTH CARE FINANCE 3 Credit Hours**

Covers the financial environment of health services in the US, including accounting principles, financial statement analysis, delivery models, management control processes of budgeting and capital project analysis, managerial accounting, program development and financial plan.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HPM 73022 STRATEGIC MANAGEMENT OF PUBLIC HEALTH ORGANIZATIONS 3 Credit Hours**

Covers basic and advanced principles of strategic management of public health organizations including service area analysis, internal environment analysis, developing and evaluating strategic alternatives and quality indicators.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HPM 73031 PUBLIC HEALTH POLICY ANALYSIS 3 Credit Hours**

Provides a framework for conducting public health policy analysis. Applies concepts to case studies of health policies at the local, state and Federal levels.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HPM 80191 VARIABLE CONTENT SEMINAR IN HEALTH POLICY AND MANAGEMENT 1-3 Credit Hours**

(Repeatable for a maximum of 6 credit hours) (Slashed with HPM 60191) Seminar on current and important topics in health policy and management. Subject matter varies depending on the topic.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Seminar

**Contact Hours:** 1-3 lecture

**Grade Mode:** Standard Letter

**HPM 80195 SPECIAL TOPICS IN HEALTH POLICY AND MANAGEMENT 1-3 Credit Hours**

(Repeatable for a maximum of 6 credit hours) (Slashed with HPM 60191) Special topics to sample new offerings on topics in health policy and management.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 1-3 lecture

**Grade Mode:** Standard Letter

**HPM 80196 INDIVIDUAL INVESTIGATION IN HEALTH POLICY AND MANAGEMENT 1-3 Credit Hours**

Individual graduate investigation or research in areas related to health policy and management.

**Prerequisite:** Doctoral standing; and special approval.

**Schedule Type:** Individual Investigation

**Contact Hours:** 3-9 other

**Grade Mode:** Standard Letter-IP

**HPM 80198 DIRECTED RESEARCH IN HEALTH POLICY AND MANAGEMENT 1-15 Credit Hours**

(Repeatable for credit) Directed research or individual investigation for doctoral students in the Health Policy and Management concentration.

**Prerequisite:** Doctoral standing; and special approval.

**Schedule Type:** Research

**Contact Hours:** 1-15 other

**Grade Mode:** Standard Letter

**HPM 80199 DISSERTATION I 15 Credit Hours**

(Repeatable for credit) Registration for two semesters required, first semester dissertation work begins and continues until completion of Dissertation II and 30 hours of total dissertation work.

**Prerequisite:** Doctoral standing; and special approval.

**Schedule Type:** Dissertation

**Contact Hours:** 15 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**HPM 80299 DISSERTATION II 15 Credit Hours**

(Repeatable for credit) Registration for two semesters required, first semester dissertation work begins and continues until completion of 30 hours.

**Prerequisite:** HPM 80199; and doctoral standing; and special approval.

**Schedule Type:** Dissertation

**Contact Hours:** 15 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**HPM 81000 PUBLIC HEALTH LAW AND REGULATION 3 Credit Hours**

Enables participants to describe, apply, and explain key aspects and principles of law, regulation, and policy relating to public health issues and topics. Requires students to master the content material for the course, and apply it to particular (a) topics or issues relating public health. Students also are required to design and or conduct a research project and explain their hypotheses, methods, findings and or conclusions.

**Prerequisite:** HPM 52016; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HPM 84002 GLOBAL HEALTH IMMERSION: GENEVA, SWITZERLAND 3 Credit Hours**

(Slashed with HPM 64002) Participants explore a number of health concerns, policies and challenges with global importance and implications. Students investigate current global health policies and themes, and become familiar with the major players in global health including governmental and nongovernmental organizations and multinational agencies. Presentations are given by experts currently working in various regions of the world to solve such pressing global problems as HIV/AIDS, postwar trauma, tuberculosis, refugee health, noncommunicable disease prevention and environmental contamination.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

## Healthcare Design (HCD)

**HCD 60000 HEALTHCARE DESIGN STUDIO 6 Credit Hours**

Course integrates and applies expert knowledge in healthcare design. Projects demonstrate solutions through design, case study analysis and in collaboration with industry and healthcare partners.

**Prerequisite:** Graduate standing.

**Schedule Type:** Studio

**Contact Hours:** 6 other

**Grade Mode:** Standard Letter

**HCD 60092 PRACTICAL EXPERIENCE 1 Credit Hour**

Course offers students three options: internship, observation or research. Tracks allow for first-hand experience with a healthcare facility design project or environment; and to develop professional communication skills.

**Prerequisite:** Graduate standing.

**Schedule Type:** Practical Experience

**Contact Hours:** 1 other

**Grade Mode:** Standard Letter

**HCD 60100 HEALTHCARE SYSTEMS WORKSHOP 3 Credit Hours**

Course integrates the knowledge-base gained in other core courses into design evaluations and solutions, helping students apply what they have learned in practice. Focus is on learning about other healthcare systems, design trends and research applications. Students deliver a design project and/or a report of the field trip.

**Prerequisite:** Graduate standing.

**Schedule Type:** Workshop

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**HCD 60101 HEALTHCARE DESIGN WORKSHOP: CULTURE AND ETHICS 3 Credit Hours**

Course integrates the knowledgebase gained in other courses into design evaluations and solutions, helping students apply what they have learned in practice. Focus is on a small design project.

**Prerequisite:** Graduate standing.

**Schedule Type:** Workshop

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**HCD 60198 MASTER'S PROJECT IN HEALTHCARE DESIGN I 3 Credit Hours**

Oriented to the individual student, focusing on research surrounding a specific aspect health care facility design. The student then defines the design issue and establishes the parameters around which their masters design project is executed.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Master's Project, Research

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**HCD 60298 MASTER'S PROJECT IN HEALTHCARE DESIGN II 6 Credit Hours**

Focused on an individual student's defined master's project topic and overseen by a faculty advisor and committee members. Concludes in the design of the specific issue detailed by the student in HCD 60198.

**Prerequisite:** HCD 60198; and graduate standing; and special approval.

**Schedule Type:** Master's Project

**Contact Hours:** 6 other

**Grade Mode:** Standard Letter

**HCD 63001 EVIDENCE-BASED DESIGN IN HEALTHCARE 2 Credit Hours**

Course offers the knowledge and skills required for applied research, and the use of credible data in the design decision-making process. Encompasses the evidence-based design (EBD) process, and how it applies in projects.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**HCD 63002 HEALTHCARE FACILITIES 2 Credit Hours**

An investigation of the history and types of healthcare facilities, design guidelines and basic planning and programming requirements for their planning and design.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**HCD 63003 ENVIRONMENTAL SYSTEMS AND MATERIALS IN HEALTHCARE 2 Credit Hours**

An investigation of architectural finishes, furnishings, mechanical systems and lighting in healthcare settings.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**HCD 63004 ENVIRONMENTS OF CARE AND PATIENT POPULATIONS 2 Credit Hours**

Course explores the functional, operational and person psychosocial requirements for different patient populations. Focus is on how design can respond to specific patient population needs.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**HCD 63005 PATIENT SAFETY AND SYSTEMS THINKING 2 Credit Hours**

Course introduces systems engineering initiative for patient safety as a major interdisciplinary approach known as systems thinking. Covers the basics of human factors in healthcare and the interactive relationship between humans and the environment; including the factors contributing to patient safety in healthcare settings, and the role environments play in patient safety.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

## Hebrew (HEBR)

**HEBR 12101 ELEMENTARY HEBREW I 4 Credit Hours**

An introduction to the modern Hebrew language in the context of Israeli culture.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 4 lecture

**Grade Mode:** Standard Letter

**HEBR 12102 ELEMENTARY HEBREW II 4 Credit Hours**

A continuation of the introduction to the modern Hebrew language in the context of Israeli culture.

**Prerequisite:** HEBR 12101.

**Schedule Type:** Lecture

**Contact Hours:** 4 lecture

**Grade Mode:** Standard Letter

**HEBR 22104 INTERMEDIATE HEBREW I 3 Credit Hours**

Continued development of speaking, listening, reading and writing skills using a variety of cultural materials.

**Prerequisite:** HEBR 12102.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HEBR 22105 INTERMEDIATE HEBREW II 3 Credit Hours**

Continuation of HEBR 22104.

**Prerequisite:** HEBR 22104.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

## Heritage Languages (HRTG)

**HRTG 10101 ELEMENTARY I (VARIABLE LANGUAGE) 4 Credit Hours**

An introduction to a heritage language in the context of the culture of its speakers.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 4 lecture

**Grade Mode:** Standard Letter

**HRTG 10102 ELEMENTARY II (VARIABLE LANGUAGE) 4 Credit Hours**

A continuation of the introduction to a heritage language in the context of the culture of its speakers.

**Prerequisite:** HRTG 10101; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 4 lecture

**Grade Mode:** Standard Letter

**HRTG 20201 INTERMEDIATE I (VARIABLE LANGUAGE) 3 Credit Hours**

Continued development of speaking, listening, reading and writing skills using a variety of cultural materials.

**Prerequisite:** HRTG 10102; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HRTG 20202 INTERMEDIATE II (VARIABLE LANGUAGE) 3 Credit Hours**

Continuation of HRTG 20201.

**Prerequisite:** HRTG 20201.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HRTG 30095 SPECIAL TOPICS 1-3 Credit Hours**

(Repeatable for credit) Topic announced in schedule of classes.

**Prerequisite:** Permission.

**Schedule Type:** Lecture

**Contact Hours:** 1-3 lecture

**Grade Mode:** Standard Letter

## Higher Education (HIED)

### HIED 46525 CAREERS IN HIGHER EDUCATION 3 Credit Hours

Familiarize students with the history of higher education; philosophies of higher education, financial, legal and political issues facing higher education; and the careers available in colleges and universities.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

### HIED 60093 VARIABLE TOPIC WORKSHOP IN HIGHER EDUCATION ADMINISTRATION 1-6 Credit Hours

(Slashed with HIED 70093) Variable topics; designed to respond to specialized needs of various groups with the contexts of trends, issues and problems in the various higher education disciplines.

**Prerequisite:** Graduate standing.

**Schedule Type:** Workshop

**Contact Hours:** 1-6 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

### HIED 66492 INTERNSHIP IN HIGHER EDUCATION ADMINISTRATION 3-6 Credit Hours

(Slashed with HIED 76492)(Repeatable for a maximum of 12 credit hours) Field-based internship, minimum 150 clock hours, as approved by the program area faculty. Specific topics are outlined and shared at meetings prior to beginning internship.

**Prerequisite:** Graduate standing.

**Schedule Type:** Practical Experience

**Contact Hours:** 10-20 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

### HIED 66521 EMPLOYMENT LAW 3 Credit Hours

(Slashed with HIED 76521) Study of public and private sector bargaining law and all terms and conditions of employment.

**Prerequisite:** Higher education administration and student affairs; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

### HIED 66558 ADVANCED EDUCATIONAL LEADERSHIP 3 Credit Hours

(Slashed with HIED 86558) Course provides the opportunity for students to gain additional knowledge and skills in educational leadership, to improve research writing and teaching skills# to share and discuss leadership knowledge and insights with their peers and to defend their work before their peers.

**Prerequisite:** HIED 66657; and graduate standing.

**Schedule Type:** Seminar

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

### HIED 66594 INTERNSHIP IN COLLEGE TEACHING 3 Credit Hours

(Repeatable for credit) (Slashed with HIED 76594) Application of course and lesson planning; instructional and evaluation skills under faculty supervision; lecturing, guiding group performance and evaluating performances. Arrangements made on individual basis.

**Prerequisite:** At least 12 hours in higher education; and graduate standing; and special approval.

**Schedule Type:** Practical Experience

**Contact Hours:** 9 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

### HIED 66595 SPECIAL TOPICS IN HIGHER EDUCATION ADMINISTRATION 3 Credit Hours

(Slashed with HIED 76595)(Repeatable for credit) Specialized offerings in response to emerging or selected program needs.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

### HIED 66596 INDIVIDUAL INVESTIGATION IN HIGHER EDUCATION ADMINISTRATION 2-4 Credit Hours

(Repeatable for credit) Projects as assigned.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Individual Investigation

**Contact Hours:** 2-4 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

### HIED 66598 RESEARCH IN HIGHER EDUCATION ADMINISTRATION 2-8 Credit Hours

(Repeatable for credit) Projects as assigned.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Research

**Contact Hours:** 2-8 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

### HIED 66600 HISTORY OF HIGHER EDUCATION 3 Credit Hours

(Cross-listed with CULT 69567 and CULT 79567)(Slashed with HIED 76600) Overview and exploration of history of higher education in the United States. Survey course covers ancient and medieval European antecedents, but focuses largely on American higher education from the 17th through the 20th century. Students explore changes in student body curricula and purposes of higher education in the United States in the context of American culture.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

### HIED 66601 THE PRIVATE LIBERAL ARTS COLLEGE 3 Credit Hours

(Slashed with HIED 76601) Explores a unique type of institution in American higher education, the private liberal arts college. Identifies common themes and challenges across institutions as well as the nature of specific examples of institutions.

**Prerequisite:** Higher education administration and student affairs major; and Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

### HIED 66651 STUDENT AFFAIRS FUNCTIONS IN HIGHER EDUCATION 3 Credit Hours

(Slashed with HIED 76651) Study of the history, philosophy, practices and organization of student affairs functions in higher education.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

### HIED 66652 LAW AND HIGHER EDUCATION 3 Credit Hours

(Slashed with HIED 76652) Provides for the examination of major legal aspects of the administration of institutions of higher learning.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter



**HIED 66653 COLLEGE STUDENT DEVELOPMENT: THEORY AND PRACTICE 3 Credit Hours**

(Slashed with HIED 76653) Study of theories concerning the development of college students and other adults, and the principles for translating theory into practice.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HIED 66654 STUDENTS AND THE COLLEGE ENVIRONMENT 3 Credit Hours**

(Slashed with HIED 76654) Study of the impact of different types of students and college environments on each other and within the context of a changing society.

**Prerequisite:** HIED 66653; and graduate standing; and special approval of instructor.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HIED 66655 CASE STUDIES IN HIGHER EDUCATION ADMINISTRATION 3 Credit Hours**

(Slashed with HIED 76655) Study of management responsibilities and leadership issues of student affairs administrators.

**Prerequisite:** HIED 66652 and HIED 66653 and HIED 66657; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HIED 66656 HIGHER EDUCATION CURRICULUM 3 Credit Hours**

(Slashed with HIED 76656) Introduces perspectives on curriculum development, implementation and assessment in higher education. Course addresses theoretical, historical, political and contemporary perspectives on higher education curriculum.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HIED 66657 LEADERSHIP IN EDUCATION ORGANIZATIONS 3 Credit Hours**

(Slashed with HIED 76657) By learning to appraise their own leadership styles, students improve their leadership effectiveness and explore the relationship between leadership and college and university effectiveness.

**Prerequisite:** Higher education administration and student affairs major; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HIED 66658 THE COMMUNITY COLLEGE 3 Credit Hours**

(Slashed with HIED 76658) A study of the foundations, structure, programs and issues of community college education in the United States.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HIED 66660 FACULTY ROLES AND RESPONSIBILITIES 3 Credit Hours**

(Slashed with HIED 76660) A study of faculty roles and responsibilities in American higher education.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HIED 66662 POLITICS AND POWER IN ORGANIZATIONS 3 Credit Hours**

(Slashed with HIED 76662) Course is designed to provide a conceptual framework for understanding the multifaceted processes of policy-making that take place in both internal and external settings in organizations.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HIED 66663 STATUS OF WOMEN IN HIGHER EDUCATION 3 Credit Hours**

(Slashed with HIED 76663) Provides a comprehensive overview of the historical, contemporary and scholarly perspectives on women students, faculty, administrators and staff. Students explore why and how women and men experience higher education differently, by drawing on scholarly contributions, feminist theoretical and research perspectives and historical, cultural and psychological contexts. The course considers how the context, recognition of power, other dimensions of identities and desire to change society and the academy have fueled and shaped feminist study of the history and condition of women in higher education. Students explore these issues through various media, and they also have the opportunity to investigate a real-life problem of their choice.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HIED 66664 SERVICE LEARNING IN HIGHER EDUCATION 3 Credit Hours**

(Slashed with HIED 76664) Examines the concepts, debate and principles of practice of service-learning in U.S. higher education. Focus is on developing knowledge about service-learning and enhancing skills and competencies for designing service-learning opportunities in higher education. The course involves an active, experiential component.

Additionally, as a class, students investigate problem-based service-learning along a continuum of action to discern how it contributes to individual's civic efficacy.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HIED 66665 TECHNOLOGY, SYSTEMS AND DATA IN HIGHER EDUCATION ADMINISTRATION 3 Credit Hours**

(Slashed with HIED 76665) Exploration of technology, systems and data analysis essential to the practice of higher education administration. Students examine and apply tools used for the organization, analysis and dissemination of information, including, but not limited to, ERP systems, learning management systems, web applications for data collection and office productivity software. Students perform tasks typically requested of administrators related to budget or workload management, managing lists and or rosters, exploring trend data for decision-making and generating charts, tables and other data for reporting needs. Survey design and construction using online applications are a significant component of this course. It is strongly advised that students taking the course have moderate experience with office productivity software.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HIED 66666 FINANCIAL MANAGEMENT IN HIGHER EDUCATION 3 Credit Hours**

(Slashed with HIED 76666) Course covers financial issues, sources of funds, economics of education, financial roles of professional and academic administrators and the financial management skills as applicable to institutions of higher education.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HIED 66667 BUSINESS ADMINISTRATION IN HIGHER EDUCATION 3 Credit Hours**

(Slashed with HIED 76667) Course introduces students to the administrative and business management of institutions of higher education. Covers topics on institutional planning, space management, insurance matters, personnel administration and purchasing and facility management.

**Prerequisite:** HIED 66657; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HIED 66669 ADMINISTRATION OF STUDENT DISABILITY SERVICES IN HIGHER EDUCATION 3 Credit Hours**

(Slashed with HIED 76669) Understanding the legal and practical issues regarding the identification, accommodation and matriculation of students with disabilities into colleges and universities.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HIED 66670 INTERNATIONALIZATION OF HIGHER EDUCATION INSTITUTIONS 3 Credit Hours**

(Slashed with HIED 76670) Students study the historical and current development of the internationalization of higher education institutions. They explore higher education administrative leadership characteristics; social, political and economic factors; and national and international relationships that have affected various countries and regions. They also examine rationales behind internationalization of higher education institutions, its meaning and approaches, and the different strategies and organizational models in different types of higher education institutions.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HIED 66671 THE ADMINISTRATION OF MULTICULTURALISM AND DIVERSITY IN HIGHER EDUCATION 3 Credit Hours**

(Slashed with HIED 76671) Course covers racial, ethnic and inclusive diversity and multiculturalism in U.S. higher education settings. Diversity is discussed from a historical perspective, providing a context for contemporary experiences described by and about students, staff, faculty and administrators. Main topics include multiculturalism in higher education in light of inclusive education; racial and ethnic diversity in higher education history; benefits of diversity; faculty issues; student issues; curriculum and pedagogy matters; research issues; law and policy issues; and strategic planning for institution diversity in higher education.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HIED 66672 INTERNATIONAL STUDENTS AND AMERICAN COLLEGES 3 Credit Hours**

(Slashed with HIED 76672) Course bridges theory and application with an emphasis on the latter. The course begins with a national perspective and then concentrates on the various aspects and best practices of recruiting and supporting international students at the institutional level.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HIED 66673 RESEARCH IN ADMINISTRATION OF INTERNATIONAL HIGHER EDUCATION 3 Credit Hours**

(Slashed with HIED 76673) Examines and analyzes research related to higher education administration in the field of international and global education. Implications for application of findings for improvement of colleges and universities at home and abroad is discussed thoroughly.

**Prerequisite:** Higher education administration and student affairs major; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HIED 66674 COMPARATIVE HIGHER EDUCATION 3 Credit Hours**  
 (Slashed with HIED 76674) Students learn the differences between comparative, international and cross-border education. They reflect on how the U.S. higher education system grew out of specific historical, cultural and socio-economic contexts and analyze the higher education systems and structures of other selected countries and regions, focusing on the contexts which have influenced their development. Students examine emerging trends in the globalization of qualifications frameworks and quality assessment standards, and define their own positions in aspects of the universal criteria/local contexts debate.  
**Prerequisite:** Higher education administration and student affairs major; and graduate standing.  
**Schedule Type:** Lecture  
**Contact Hours:** 3 lecture  
**Grade Mode:** Standard Letter

**HIED 66675 DESIGN AND DELIVERY OF EDUCATION ABROAD PROGRAMS 3 Credit Hours**  
 (Slashed with HIED 76675) Students examine the many critical aspects of designing, planning and implementing an education abroad program. Students analyze components an education abroad program and, with others, design a new program. Students also consider the institutional contexts in which the program design occurs, on a campus or third-party organizational level, including design decisions about curriculum content and program delivery mechanisms, co-curricular activities and safety issues. Students also develop skills in conducting needs assessments and program evaluations.  
**Prerequisite:** Graduate standing.  
**Schedule Type:** Lecture  
**Contact Hours:** 3 lecture  
**Grade Mode:** Standard Letter

**HIED 66676 INTERCULTURAL COMMUNICATION FOR INTERNATIONAL EDUCATORS 3 Credit Hours**  
 (Slashed with HIED 76676) Students examine both classic and evolving intercultural communication theories, with an emphasis on the practical application of those theories to working in intercultural environments in higher education. Students analyze cultural influences on individuals, through the reading of cultural biographies and reflection on cultural influences in their own lives. Definitions of intercultural competence and strategies for intercultural learning (particularly in higher education contexts) are reviewed, with implications for program design in education abroad, work with international students and other international education contexts.  
**Prerequisite:** Graduate standing.  
**Schedule Type:** Lecture  
**Contact Hours:** 3 lecture  
**Grade Mode:** Standard Letter

**HIED 66677 WORKFORCE, ECONOMIC AND COMMUNITY DEVELOPMENT IN COMMUNITY COLLEGES 3 Credit Hours**  
 (Slashed with HIED 76677) Course examines the role of the community college in workforce, economic and community development and within the context of social, economic and technology shifts.  
**Prerequisite:** Graduate standing.  
**Schedule Type:** Lecture  
**Contact Hours:** 3 lecture  
**Grade Mode:** Standard Letter

**HIED 66678 ISSUES AND TRENDS IN COMMUNITY COLLEGE ADMINISTRATION 3 Credit Hours**  
 (Slashed with HIED 76678) Course addresses current salient issues in community college administration. A variety of topics are examined as related to challenges for community college leaders arising from social, economic and political shifts.  
**Prerequisite:** Graduate standing.  
**Schedule Type:** Lecture  
**Contact Hours:** 3 lecture  
**Grade Mode:** Standard Letter

**HIED 66679 CAREER ADVISING: THEORY AND PRACTICE 3 Credit Hours**  
 (Slashed with HIED 76679) Develop practical skills in providing developmentally appropriate theory based academic and career advising to assist individuals in adding meaningful and purposeful work into their lives.  
**Prerequisite:** Graduate standing.  
**Schedule Type:** Seminar  
**Contact Hours:** 3 other  
**Grade Mode:** Standard Letter

**HIED 66680 ADMINISTRATION OF CAREER AND ADVISING SERVICES 1 Credit Hour**  
 (Slashed with HIED 76680) Examines contemporary issues in administration of career and academic advising services. Challenges students to rethink the models and methods used to prepare individuals to enter the workforce and navigate their careers.  
**Prerequisite:** Graduate standing.  
**Schedule Type:** Seminar  
**Contact Hours:** 1 other  
**Grade Mode:** Standard Letter

**HIED 66681 ADMINISTRATION OF ADVISING SERVICES 3 Credit Hours**  
 (Slashed with HIED 76681) Examines contemporary issues in administration of academic advising services. Challenges students to rethink models and methods used to prepare individuals to enter the workforce and navigate their careers.  
**Prerequisite:** HIED 66653; and graduate standing.  
**Schedule Type:** Seminar  
**Contact Hours:** 3 lecture  
**Grade Mode:** Standard Letter

**HIED 66733 INTERPERSONAL AND GROUP DYNAMICS IN EDUCATIONAL ORGANIZATIONS 3 Credit Hours**  
 (Slashed with HIED 76733) Students working in task groups learn about interpersonal, group and inter-group dynamics in organizations through lectures, discussions and analysis of their in-group experiences.  
**Prerequisite:** Graduate standing.  
**Schedule Type:** Lecture  
**Contact Hours:** 3 lecture  
**Grade Mode:** Standard Letter

**HIED 66745 EQUITY, JUSTICE AND U.S. HIGHER EDUCATION 3 Credit Hours**

(Slashed with HIED 76745) Examines issues of equity and justice in the U.S. higher education, including historical origins, access to higher education, students' experiences within colleges and universities and outcomes of higher education. Course also focuses on the role of higher education as a social institution, including higher education as a public good and the intersection of higher education with current social issues such as labor and free speech.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HIED 66749 ASSESSMENT AND EVALUATION IN HIGHER EDUCATION 3 Credit Hours**

(Slashed with HIED 76749) Course provides an understanding of current assessment and evaluation methods in higher education settings. Topics span from individual classroom assessment through institutional accreditation processes.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HIED 66771 PLANNING AND IMPLEMENTING STUDY ABROAD WHILE STUDYING ABROAD 3 Credit Hours**

Students learn the principles and practice of designing and delivering effective study- abroad programs through Kent State location in Florence, Italy. Students observe summer programs; study the principles of developing effective study abroad experiences; and meet with university program officials, faculty, facility support staff, private third-party providers of study abroad and the community, in addition to such onsite support services as legal advisors, health professionals and housing offices.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter-IP

**HIED 70093 VARIABLE TOPIC WORKSHOP IN HIGHER EDUCATION ADMINISTRATION 1-6 Credit Hours**

(Slashed with HIED 60093) Variable topics# designed to respond to specialized needs of various groups with the contexts of trends, issues and problems in the various higher education disciplines.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Workshop

**Contact Hours:** 1-6 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**HIED 76492 INTERNSHIP IN HIGHER EDUCATION ADMINISTRATION 3-6 Credit Hours**

(Repeatable for a maximum of 12 credit hours) (Slashed with HIED 66492) Field-based internship of at least 150 clock hours, as approved by the program area faculty. Specific topics are outlined and shared at meetings prior to beginning internship.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Practical Experience

**Contact Hours:** 10-20 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**HIED 76521 EMPLOYMENT LAW 3 Credit Hours**

(Slashed with HIED 66521) Study of public and private sector bargaining law and all terms of employment.

**Prerequisite:** Higher education administration major; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HIED 76594 INTERNSHIP IN COLLEGE TEACHING 3 Credit Hours**

(Repeatable for credit) (Slashed with HIED 66594) Application of course and lesson planning; instructional and evaluation skills under faculty supervision; lecturing, guiding group performance and evaluating performances. Arrangements made on individual basis.

**Prerequisite:** At least 12 hours in higher education; and doctoral standing; and special approval.

**Schedule Type:** Practical Experience

**Contact Hours:** 9 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**HIED 76595 SPECIAL TOPICS IN HIGHER EDUCATION ADMINISTRATION 3 Credit Hours**

(Slashed with HIED 66595)(Repeatable for credit) Specialized offerings in response to emerging or selected program needs.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HIED 76596 INDIVIDUAL INVESTIGATION IN HIGHER EDUCATION ADMINISTRATION 2-4 Credit Hours**

(Repeatable for credit) Projects as assigned.

**Prerequisite:** Doctoral standing; and special approval.

**Schedule Type:** Individual Investigation

**Contact Hours:** 2-4 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**HIED 76598 RESEARCH IN HIGHER EDUCATION ADMINISTRATION 2-8 Credit Hours**

(Repeatable for credit) Projects as assigned.

**Prerequisite:** Doctoral standing; and special approval.

**Schedule Type:** Research

**Contact Hours:** 2-8 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**HIED 76600 HISTORY OF HIGHER EDUCATION 3 Credit Hours**

(Cross-listed with CULT 69567 and CULT 79567)(Slashed with HIED 66600) Overview and exploration of history of higher education in the United States. Survey course covers ancient and medieval European antecedents, but focuses largely on American higher education from the 17th through the 20th century. Students explore changes in student body curricula and purposes of higher education in the United States in the context of American culture.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HIED 76601 THE PRIVATE LIBERAL ARTS COLLEGE 3 Credit Hours**  
(Slashed with HIED 66601) Explores a unique type of institution in American higher education, the private liberal arts college. Identifies common themes and challenges across institutions as well as the nature of specific examples of institutions.

**Prerequisite:** Higher education administration major; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HIED 76651 STUDENT AFFAIRS FUNCTIONS IN HIGHER EDUCATION 3 Credit Hours**

(Slashed with HIED 66651) Study of the history, philosophy, practices and organization of student affairs functions in higher education.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HIED 76652 LAW AND HIGHER EDUCATION 3 Credit Hours**

(Slashed with HIED 66652) Provides for the examination of major legal aspects of the administration of institutions of higher learning.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HIED 76653 COLLEGE STUDENT DEVELOPMENT: THEORY AND PRACTICE 3 Credit Hours**

(Slashed with HIED 66653) Study of theories concerning the development of college students and other adults, and the principles for translating theory into practice.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HIED 76654 STUDENTS AND THE COLLEGE ENVIRONMENT 3 Credit Hours**

(Slashed with HIED 66654) Study of the impact of different types of students and college environments on each other and within the context of a changing society.

**Prerequisite:** HIED 76653; and doctoral standing; and special approval of the instructor.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HIED 76655 CASE STUDIES IN HIGHER EDUCATION ADMINISTRATION 3 Credit Hours**

(Slashed with HIED 66655) Study of management responsibilities and leadership issues of student affairs administrators.

**Prerequisite:** HIED 76652 and 76653 and 76657; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HIED 76656 HIGHER EDUCATION CURRICULUM 3 Credit Hours**

(Slashed with HIED 66656) Introduces perspectives on curriculum development, implementation and assessment in higher education and addresses theoretical, historical, political and contemporary perspectives on higher education curriculum.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HIED 76657 LEADERSHIP IN EDUCATION ORGANIZATIONS 3 Credit Hours**

(Slashed with HIED 66657) By learning to appraise their own leadership styles, students improve their leadership effectiveness and explore the relationship between leadership and college and university effectiveness.

**Prerequisite:** Higher education administration major; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HIED 76658 THE COMMUNITY COLLEGE 3 Credit Hours**

(Slashed with HIED 66658) A study of the foundations, structure, programs and issues of community college education in the United States.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HIED 76660 FACULTY ROLES AND RESPONSIBILITIES 3 Credit Hours**

(Slashed with HIED 66660) A study of faculty roles and responsibilities in American higher education.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HIED 76662 POLITICS AND POWER IN ORGANIZATIONS 3 Credit Hours**

(Slashed with HIED 66662) Course is designed to provide a conceptual framework for understanding the multifaceted processes of policy-making that take place in both internal and external settings in organizations.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter



**HIED 76663 STATUS OF WOMEN IN HIGHER EDUCATION 3 Credit Hours**

(Slashed with HIED 66663) Provides a comprehensive overview of the historical, contemporary and scholarly perspectives on women students, faculty, administrators and staff. Students explore why and how women and men experience higher education differently, by drawing on scholarly contributions, feminist theoretical and research perspectives and historical, cultural and psychological contexts. The course considers how the context, recognition of power, other dimensions of identities and desire to change society and the academy have fueled and shaped feminist study of the history and condition of women in higher education. Students explore these issues through various media, and they also have the opportunity to investigate a real-life problem of their choice.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HIED 76664 SERVICE LEARNING IN HIGHER EDUCATION 3 Credit Hours**

(Slashed with HIED 66664) Examines the concepts, debate and principles of practice of service-learning in U.S. higher education. Focus is on developing knowledge about service-learning and enhancing skills and competencies for designing service-learning opportunities in higher education. The course involves an active, experiential component. Additionally, as a class, students investigate problem-based service-learning along a continuum of action to discern how it contributes to individual's civic efficacy.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HIED 76665 TECHNOLOGY, SYSTEMS AND DATA IN HIGHER EDUCATION ADMINISTRATION 3 Credit Hours**

(Slashed with HIED 66665) Exploration of technology, systems and data analysis essential to the practice of higher education administration. Students examine and apply tools used for the organization, analysis and dissemination of information, including, but not limited to, ERP systems, learning management systems, web applications for data collection and office productivity software. Students perform tasks typically requested of administrators related to budget or workload management, managing lists and or rosters, exploring trend data for decision-making and generating charts, tables and other data for reporting needs. Survey design and construction using online applications are a significant component of this course. It is strongly advised that students taking the course have moderate experience with office productivity software.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HIED 76666 FINANCIAL MANAGEMENT IN HIGHER EDUCATION 3 Credit Hours**

(Slashed with HIED 66666) Course covers financial issues, sources of funds, economics of education, financial roles of professional and academic administrators and the financial management skills as applicable to institutions of higher education.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HIED 76667 BUSINESS ADMINISTRATION IN HIGHER EDUCATION 3 Credit Hours**

(Slashed with HIED 66667) Course introduces students to the administrative and business management of institutions of higher education. Covers topics on institutional planning, space management, insurance matters, personnel administration and purchasing and facility management.

**Prerequisite:** HIED 76657; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HIED 76669 ADMINISTRATION OF STUDENT DISABILITY SERVICES IN HIGHER EDUCATION 3 Credit Hours**

(Slashed with HIED 66669) Understanding the legal and practical issues regarding the identification, accommodation and matriculation of students with disabilities into colleges and universities.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HIED 76670 INTERNATIONALIZATION OF HIGHER EDUCATION INSTITUTIONS 3 Credit Hours**

(Slashed with HIED 66670) Students study the historical and current development of the internationalization of higher education institutions. They explore higher education administrative leadership characteristics; social, political and economic factors; and national and international relationships that have affected various countries and regions. They also examine rationales behind internationalization of higher education institutions, its meaning and approaches, and the different strategies and organizational models in different types of higher education institutions.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HIED 76671 THE ADMINISTRATION OF MULTICULTURALISM AND DIVERSITY IN HIGHER EDUCATION 3 Credit Hours**

(Slashed with HIED 66671) Course covers racial, ethnic and inclusive diversity and multiculturalism in U.S higher education settings. Diversity is discussed from a historical perspective providing a context for contemporary experiences described by and about students, staff, faculty and administrators. Main topics include multiculturalism in higher education in light of inclusive education; racial and ethnic diversity in higher education history; benefits of diversity; faculty issues; student issues; administrator and leadership issues; curriculum and pedagogy matters; research issues; law and policy issues and strategic planning for institutional diversity in higher education.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HIED 76672 INTERNATIONAL STUDENTS AND AMERICAN COLLEGES 3 Credit Hours**

(Slashed with HIED 66672) Course bridges theory and application with an emphasis on the latter. The course begins with a national perspective and then concentrates on the various aspects and best practices of recruiting and supporting international students at the institutional level.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HIED 66673 RESEARCH IN ADMINISTRATION OF INTERNATIONAL HIGHER EDUCATION 3 Credit Hours**

(Slashed with HIED 66673) Examines and analyzes research related to higher education administration in the field of international and global education. Implications for application of findings for improvement of colleges and universities at home and abroad is discussed thoroughly.

**Prerequisite:** Higher education administration major; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HIED 66674 COMPARATIVE HIGHER EDUCATION 3 Credit Hours**

(Slashed with HIED 66674) Students learn the differences between comparative, international and cross-border education. They reflect on how the United States higher education system grew out of specific historical, cultural and socio-economic contexts and analyze the higher education systems and structures of other selected countries and regions, focusing on the contexts which have influenced their development. Students examine emerging trends in the globalization of qualifications frameworks and quality assessment standards, and define their own positions in aspects of the universal criteria/local contexts debate.

**Prerequisite:** Higher education administration major; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HIED 66675 DESIGN AND DELIVERY OF EDUCATION ABROAD PROGRAMS 3 Credit Hours**

(Slashed with HIED 66675) Students examine the many critical aspects of designing, planning and implementing an education abroad program. Students analyze components an education abroad program and, with others, design a new program. Students also consider the institutional contexts in which the program design occurs, on a campus or third-party organizational level, including design decisions about curriculum content and program delivery mechanisms, co-curricular activities and safety issues. Students also develop skills in conducting needs assessments and program evaluations.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HIED 66676 INTERCULTURAL COMMUNICATION FOR INTERNATIONAL EDUCATORS 3 Credit Hours**

(Slashed with HIED 66676) Students examine both classic and evolving intercultural communication theories, with an emphasis on the practical application of those theories to working in intercultural environments in higher education. Students analyze cultural influences on individuals, through the reading of cultural biographies and reflection on cultural influences in their own lives. Definitions of intercultural competence and strategies for intercultural learning (particularly in higher education contexts) are reviewed, with implications for program design in education abroad, work with international students and other international education contexts.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HIED 66677 WORKFORCE, ECONOMIC AND COMMUNITY DEVELOPMENT IN COMMUNITY COLLEGES 3 Credit Hours**

(Slashed with HIED 66677) Course examines the role of the community college in workforce, economic and community development and within the context of social, economic and technology shifts.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HIED 66678 ISSUES AND TRENDS IN COMMUNITY COLLEGE ADMINISTRATION 3 Credit Hours**

(Slashed with HIED 66678) Course addresses current salient issues in community college administration. A variety of topics are examined as related to challenges for community college leaders arising from social, economic and political shifts.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HIED 66679 CAREER ADVISING: THEORY AND PRACTICE 3 Credit Hours**

(Slashed with HIED 66679) Develop practical skills in providing developmentally appropriate theory based academic and career advising to assist individuals in adding meaningful and purposeful work into their lives.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Seminar

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**HIED 66680 ADMINISTRATION OF CAREER AND ADVISING SERVICES 1 Credit Hour**

(Slashed with HIED 66680) Examines contemporary issues in administration of career and academic advising services. Challenges students to rethink the models and methods used to prepare individuals to enter the workforce and navigate their careers.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Seminar

**Contact Hours:** 1 other

**Grade Mode:** Standard Letter

**HIED 66681 ADMINISTRATION OF ADVISING SERVICES 3 Credit Hours**

(Slashed with HIED 66681) Examines contemporary issues in administration of academic advising services. Challenges students to rethink models and methods used to prepare individuals to enter the workforce and navigate their careers.

**Prerequisite:** HIED 66653; and doctoral standing.

**Schedule Type:** Seminar

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HIED 66733 INTERPERSONAL AND GROUP DYNAMICS IN EDUCATIONAL ORGANIZATIONS 3 Credit Hours**

(Slashed with HIED 66733) Students working in task groups learn about interpersonal, group and inter-group dynamics in organizations through lectures, discussions and analysis of their in-group experiences.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HIED 76745 EQUITY, JUSTICE AND U.S. HIGHER EDUCATION 3****Credit Hours**

(Slashed with HIED 66745) Examines issues of equity and justice in U.S. higher education, including historical origins, access to higher education, students' experiences within colleges and universities, and outcomes of higher education. Course also focuses on the role of higher education as a social institution, including higher education as a public good and the intersection of higher education with current social issues such as labor and free speech.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HIED 76749 ASSESSMENT AND EVALUATION IN HIGHER EDUCATION****3 Credit Hours**

(Slashed with HIED 66749) This course is designed to provide an understanding of current assessment and evaluation methods in higher education settings. Topics will span from individual classroom assessment through institutional accreditation processes.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HIED 80080 DISSERTATION PREPARATION SEMINAR 3 Credit Hours**

Students gain an in-depth understanding of the dissertation writing process to complete their dissertation proposal.

**Prerequisite:** Doctoral standing; and special approval.

**Schedule Type:** Seminar

**Contact Hours:** 3 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**HIED 80199 DISSERTATION I 15 Credit Hours**

(Repeatable for credit) Doctoral dissertation for which registration in at least two semesters is required, the first of which is a semester in which dissertation work is begun and continuation of 30 hours.

**Prerequisite:** Doctoral standing; and special approval.

**Schedule Type:** Dissertation

**Contact Hours:** 15 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**HIED 80299 DISSERTATION II 15 Credit Hours**

(Repeatable for credit) Continuing registration required of doctoral students who have completed the initial 30 hours of dissertation and continuing until all degree requirements are met.

**Prerequisite:** HIED 80199; and doctoral standing.

**Schedule Type:** Dissertation

**Contact Hours:** 15 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**HIED 86558 ADVANCED EDUCATIONAL LEADERSHIP 3 Credit Hours**

(Slashed with HIED 66558) Course provides the opportunity for students to gain additional knowledge and skills in educational leadership, to improve research writing and teaching skills# to share and discuss leadership knowledge and insights with their peers and to defend their work before their peers.

**Prerequisite:** HIED 76657; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HIED 86559 ADVANCED STUDENT AND ADULT DEVELOPMENT 3****Credit Hours**

Students develop an in-depth understanding of one or more current theories of student or adult development. They gain additional knowledge in student development theory and theory creation.

**Prerequisite:** Higher education administration major; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

## History (HIST)

**HIST 11050 WORLD HISTORY: ANCIENT AND MEDIEVAL (DIVG)****(KHUM) 3 Credit Hours**

World history from early human societies through the mid-17th century.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Diversity Global, Kent Core Humanities, TAG History, Transfer Module Humanities

**HIST 11051 WORLD HISTORY: MODERN (DIVG) (KHUM) 3 Credit****Hours**

World history from mid-17th century to the present.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Diversity Global, Kent Core Humanities, TAG History, Transfer Module Humanities

**HIST 12070 EARLY AMERICA: FROM PRE-COLONIZATION TO CIVIL****WAR AND RECONSTRUCTION (DIVD) (KHUM) 3 Credit Hours**

A survey of United States history through 1877.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Diversity Domestic, Kent Core Humanities, TAG History, Transfer Module Humanities

**HIST 12071 MODERN AMERICA: FROM INDUSTRIALIZATION TO****GLOBALIZATION (DIVD) (KHUM) 3 Credit Hours**

A survey of United States history since 1877.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Diversity Domestic, Kent Core Humanities, TAG History, Transfer Module Humanities

**HIST 31020 POLIS TO METROPOLIS: HISTORY OF THE EUROPEAN CITY 3 Credit Hours**

This course examines urban identities in Europe from antiquity to the present including Greek and Roman cities; medieval cities, city leagues and city law; early modern planned communities, court residences, and commercial metropolises; eighteenth- and nineteenth-century resort towns, nineteenth-century capital cities and industrial cities; the devastation of the World Wars and post-war reconstruction. The course will examine cities as 'windows' into the societies they serve; the fortunes and misfortunes of cities will be treated as mirrors of regional economic, political, and social trends. The thematic focus of the course will be on the political 'message' encoded in architecture, design and layout and the course will interpret the outward face of cities as an expression of political identity, power, and even civic virtù. This course will be offered primarily at the Stark campus.

**Prerequisite:** Sophomore standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HIST 31022 THE GREAT POWERS IN WAR AND PEACE, 1792-1914 3 Credit Hours**

This course focuses on the nineteenth-century origins of present-day international problems - from risks of unilateralism to the debt crisis of developing countries to the nationalist tendencies in the Balkans to the question of whether a united Germany is compatible with the European equilibrium. Second, this course looks at how nineteenth-century statecraft dealt with issues that still clutter the headlines today such as peacemaking and peacekeeping, the erosion of treaties, alliances among unequal partners, and crisis management. Third, the course will point to the importance of global linkages (i.e. how events in one area of the world were linked to developments in another and how the Balkans, the Middle East, Africa, and East Asia became flashpoints in the foreign relations of Great Powers. This course will be offered primarily at the Stark campus.

**Prerequisite:** Sophomore standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HIST 31024 WORLD WAR II 3 Credit Hours**

Survey of one of the greatest political and military events in history, focusing especially on causes, major personalities and chief political, ideological, moral, scientific and diplomatic aspects.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HIST 31027 HISTORY OF ENGLAND TO 1688 3 Credit Hours**

Survey of medieval and early modern England. Topics include Norman Conquest, medieval culture and society, Reformation, Age of Elizabeth, English Revolution.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HIST 31028 ENGLAND SINCE 1688 3 Credit Hours**

Survey of national development from the Glorious Revolution through the Second World War, with special attention to leaders, prominent individuals and problems of change.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HIST 31030 NATO: THE ENDURING ALLIANCE 3 Credit Hours**

Examination of the historical and contemporary roles of the North Atlantic Treaty Organization.

**Prerequisite:** Junior standing; or special approval of instructor.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HIST 31031 THE PROTESTANT AND CATHOLIC REFORMATIONS 3 Credit Hours**

Comprehensive course dealing with the religious, political, economic and social change accompanying the religious upheavals of the 16th century.

**Prerequisite:** Junior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HIST 31032 SEVENTEENTH-CENTURY EUROPE 3 Credit Hours**

This course will analyze those political, economic, social, religious and intellectual factors leading to economic crisis and civil wars in Europe.

**Prerequisite:** Junior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HIST 31033 WITCHES AND EUROPEAN HISTORY, 1500-1800 3 Credit Hours**

This course explores fifteenth- through seventeenth-century European witch-hunts and their decline in the eighteenth century through lecture and class discussions of both primary and secondary sources. The course has four parts. The first investigates the development of notions of diabolical witchcraft from the ancient world, while Part two examines the intellectual, gender, religious, social and legal backgrounds that helped cause witch-hunts. The final sections explore the dynamics of witchcraft trials. The final section explores the decline of witchcraft.

**Prerequisite:** Sophomore standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HIST 31035 THE GLOBAL COLD WAR 3 Credit Hours**

Explores the Cold War through a global lens. Includes political, diplomatic, cultural, and social perspectives.

**Prerequisite:** Junior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter



**HIST 31036 THE TWENTIETH CENTURY WORLD 3 Credit Hours**

This course explores the key political, cultural, social, and economic events that defined and shaped the twentieth century. Topics to be addressed will include imperialism, revolution and war, nationalism and decolonization, and globalization.

**Prerequisite:** Sophomore standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HIST 31040 AMERICAN HISTORY THROUGH POPULAR MUSIC 3 Credit Hours**

Allows students to develop an understanding of the interconnection between the rise of popular music in the period after 1865 to the social, political, and technological changes that this period witnessed and how this helps to understand the meaning and significance of cultural identity in modern American history.

**Prerequisite:** Sophomore standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HIST 31041 SPORT HISTORY IN THE UNITED STATES 3 Credit Hours**

This course will examine and interpret American sports from the colonial era to the present with particular attention to the role of sports in American life and how changes in American life have affected sports. The course also offers an exploration of American social and cultural history with an emphasis on issues such as race, class, gender, foreign policy, nationalism, religion, economics, industrialization, immigration and urbanization as they relate to sports. It is not a course of sports trivia. The main goal of the course is to use sports as a way to better understand American history and American culture. This course will be offered primarily at the Stark campus.

**Prerequisite:** Sophomore standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HIST 31045 A HISTORY OF CRIME IN THE UNITED STATES 3 Credit Hours**

This course will explore the history of 'living outside the law' in the nineteenth and twentieth centuries. We will read biographical and autobiographical treatments of and monographs about men and women who committed crimes in these centuries and use them as a lens through which to view the changing experiences, constraints, and self-understandings of people who committed crimes in United States history. Some sections of this course may be offered as part of the Inside Out Program in which the course will take place in a nearby prison or jail and will include students who are incarcerated.

**Prerequisite:** Sophomore standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HIST 31050 HISTORY AND SOCIETY OF MODERN GREECE 3 Credit Hours**

Study of modern Greece concentrating on political, economic, cultural and societal developments since 1821.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HIST 31052 HISTORY OF MODERN FRANCE 3 Credit Hours**

Survey of French history from 1815 to the present. Topics include industrialization, republicanism and revolution, the experience of war and defeat, empire and decolonization.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HIST 31053 MODERN EUROPE, 1815 TO PRESENT 3 Credit Hours**

Covers the political, social, and cultural history of Europe from the peace at the end of the Napoleonic wars to the present.

**Prerequisite:** Sophomore standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HIST 31055 POLITICS, CULTURE AND SOCIETY OF 20TH-CENTURY EUROPE 3 Credit Hours**

This course explores the political, social, cultural and other factors that have marked the path of European history in the last century, from the origins of World War I to the end of the Cold War. The course explores not only the origins and consequences of warfare, but also the ways in which everyday life was transformed in this turbulent era. This course covers the era of 'Great Wars,' the 'economic miracle' after the war, the challenges of the Cold War, generational rebellion, and the formation of the European Union with special attention to the political, social and cultural transformations associated with these developments. The thematic anchors of the first half of the course are 'Total War' and 'Rebellion against Positivism,' while the thematic anchors of the second half of the course are 'Rebirth' and 'The Two Europes.'

**Prerequisite:** Sophomore standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HIST 31056 EUROPE IN THE RENAISSANCE 3 Credit Hours**

Analysis of the various factors leading Europe from a rural, feudal, ecclesiastical society to one characterized by urbanism, trade, secularism and the state.

**Prerequisite:** Junior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HIST 31061 HISTORY OF OHIO 3 Credit Hours**

This course explores key events and institutions shaping the geographic region that became Ohio from prehistory to present day with an emphasis is on social, cultural, political, and the economic history of the region. Topics include the historical significance of Ohio's geography, the role and contributions of Native American peoples, the transition to statehood, and modern economic and political developments.

**Prerequisite:** Sophomore standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter



**HIST 31071 U.S. FOREIGN RELATIONS THROUGH 1898 3 Credit Hours**

Explores the foundational period of U.S. foreign relations. Includes consideration of the roots and principles of U.S. foreign policy, continental consolidation, and U.S. incursions in the Western Hemisphere.

**Prerequisite:** Junior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HIST 31072 U.S. FOREIGN RELATIONS, 1898-1945 3 Credit Hours**

Explores the evolving U.S. world role from the Spanish-American War through World War II. Includes consideration of the expanding U.S. interest in Latin America, Asia, and elsewhere as well as the liberal international vision that impelled such interest.

**Prerequisite:** Junior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HIST 31073 U.S. FOREIGN RELATIONS SINCE 1945 3 Credit Hours**

Explores the rise and fall of U.S. global hegemony since World War II. Includes consideration of the Cold War, decolonization, détente, and the post-Cold War era.

**Prerequisite:** Junior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HIST 31074 HISTORY OF ESPIONAGE: FROM JOSHUA TO EDWARD SNOWDEN 3 Credit Hours**

This course traces the history of intelligence gathering from the ancient world through the 21st century. The study of spy-networks provides students with an understanding of emerging intelligence systems, including both examples of espionage and counter-intelligence. The course assesses the cultural and political impact of intelligence gathering on society at large and discusses ethical issues such as the balance between privacy and security. While most of the focus is on the United States, the lectures and discussions will also cover Britain, Germany, Japan, China, Israel, and Russia, with considerable attention to World Wars I and II, and the Cold War.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HIST 31075 HISTORY OF WOMEN IN THE UNITED STATES 3 Credit Hours**

(Cross-listed with WMST 30100) An exploration of the political, economic, social, intellectual and cultural forces that have shaped women's lives, women's thought, perceptions of womanhood and feminism, from 1607 to the present in what is now the United States.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HIST 31077 HISTORY OF SEXUALITY IN THE UNITED STATES 3 Credit Hours**

This course explores how people living in the United States learned about sex. Together, Americans in all time periods have developed sexual cultures and norms, accommodated themselves to, ignored, creatively interpreted or defied, or changed these cultures and norms over time. We will focus on how sexual cultures and norms of were taught and enforced, and how different types of institutions and professionals (religious leaders, mental health professionals, law enforcement officers, journalists and popular cultural figures), played roles in this process.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HIST 31080 AFRICAN AMERICAN HISTORY: SLAVERY TO FREEDOM 3 Credit Hours**

(Cross-listed with PAS 33101) Survey of African American history from the colonial period to 1877. Course provides a general knowledge of the social, political and cultural history of African Americans from colonial times to the end of the Reconstruction.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HIST 31082 HISTORY OF THE CIVIL RIGHTS AND BLACK POWER MOVEMENTS IN THE UNITED STATES 3 Credit Hours**

This course examines Civil Rights and Black Power movements in the twentieth century and addresses a series of questions still relevant today: How do social movements begin? What leadership styles and protest tactics and strategies work? How do social movements evolve over time? This course also explores the history of the Civil Rights and Black Power movements at Kent State University. Working in the University Archives, students conduct research in original source materials and develop a collaborative digital history project based on their research.

**Prerequisite:** Sophomore standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HIST 31083 THE HISTORY OF WHITENESS IN THE UNITED STATES 3 Credit Hours**

This course will survey the full sweep of the history of the United States to interrogate what exactly 'whiteness' was and is and what it has meant throughout the American past. To do so, this course will examine closely a series of crucial turning points in the history of whiteness in the United States: 1) the colonial era and the creation of 'whiteness' as an identity; and 2) the evolution of 'whiteness' during the long nineteenth and twentieth centuries.

**Prerequisite:** Sophomore standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HIST 31087 SECTIONAL CONFLICT AND CIVIL WAR 3 Credit Hours**

Differences within the United States, including the controversy over slavery; the Civil War in all its aspects.

**Prerequisite:** Junior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HIST 31100 RECONSTRUCTION AND THE LATER SOUTH 3 Credit Hours**

Controversy during and after the Civil War as to racial and sectional relationships; the post- Reconstruction compromises and their undoing.

**Prerequisite:** Junior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HIST 31101 WAR AND SOCIETY IN THE UNITED STATES FROM 1607 THROUGH 1865 3 Credit Hours**

An examination of the impact of conflict and the military upon the society, culture, economy and diplomacy of the United States. Topics include colonial Indian wars, the Revolutionary War, the War of 1812, the Mexican-American War and the Civil War.

**Prerequisite:** HIST 12070.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HIST 31102 WAR AND SOCIETY IN THE UNITED STATES FROM 1865 TO THE PRESENT 3 Credit Hours**

An examination of the impact of conflict and the military on the society, culture, economy and diplomacy of the United States. Topics include the frontier Army, the Spanish-American War and empire in the Pacific, the two world wars, the Cold War and the War on Terror.

**Prerequisite:** HIST 12071.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HIST 31104 MIGRATIONS TO AMERICA, 1607 TO PRESENT 3 Credit Hours**

Examines the coming together of people from five continents to the United States and provides an overview of shifting patterns of migration both coerced and free to the United States. Starting in the colonial era, when slaves and servants typified the migration to America, this course then follows the migrations of pre-industrial, industrial, and post-industrial immigrants, their reception by American institutions and natives, and their efforts to construct communities in a new country.

**Prerequisite:** Junior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HIST 31106 PROGRESSIVE AMERICA: THE UNITED STATES, 1896-1919 3 Credit Hours**

Major political, economic, social, cultural and diplomatic events from the crisis of the 1890s through the first World War.

**Prerequisite:** Junior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HIST 31107 NEW ERA THROUGH WORLD WAR: THE UNITED STATES, 1920-1945 3 Credit Hours**

Major political, economic, social, cultural and diplomatic events from the new era of the 1920s through the second World War.

**Prerequisite:** Junior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HIST 31108 RECENT AMERICA: THE UNITED STATES, 1945-PRESENT 3 Credit Hours**

Examines everyday life and culture, assesses the degree to which presidents and their administrations are the reflections of their constituencies, and evaluates the significant events and themes of U.S. history since 1945.

**Prerequisite:** Junior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HIST 31112 CHINESE CIVILIZATION 3 Credit Hours**

General survey of evolution of Chinese civilization from the Bronze Age to the rise of communism.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HIST 31113 HISTORY OF JAPAN 3 Credit Hours**

General survey of the development of Japan from a loose confederation of clans to a modern industrial state.

**Prerequisite:** Junior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HIST 31114 TRADITION AND REVOLUTION IN SOUTHEAST ASIA 3 Credit Hours**

Focusing on Southeast Asia, this course is organized chronologically around three broad periods: traditional states and societies (to 1800); colonial transformations and indigenous responses (1800-1945); and the emergence of modern nations (since 1945). Within these broad time frames, the course will explore several themes, including the origins of indigenous states; the impact of colonial domination; responses to colonial rule; and the nature of post-colonial societies and political systems. Given the size and diversity of the region, the course will concentrate on four nation-states: Burma, Thailand, the Philippines, and Indonesia.

**Prerequisite:** Junior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HIST 31115 INDIA SINCE 1526 3 Credit Hours**

Presents a broad introduction to the modern history and culture of India, or South Asia. Students will gain an understanding of the geography, traditions, religions, and culture that make India a distinct civilization. The course traces the history of Modern India from the Mughal Empire through the British Raj, Gandhi and nationalism, partition, and the Republic of India. Finally, the course examines the recent rise of Hindu fundamentalism and its implications for the world's largest democracy.

**Prerequisite:** Junior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HIST 31118 VIETNAM WAR 3 Credit Hours**

Study of the causes, evolution and effects of warfare in Vietnam from 1946 to 1975 with special attention to colonialism, nationalism, communism and American intervention.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HIST 31119 THE SIXTIES: A THIRD WORLD VIEW 3 Credit Hours**

Examines the political, social and cultural upheaval of the 1960s in Latin America, Africa and Asia.

**Prerequisite:** Junior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HIST 31120 COMPARATIVE THIRD WORLD REVOLUTIONS 3 Credit Hours**

Examination of 20th-century revolutions in Latin America, Africa and Asia focusing on ideologies and political leadership.

**Prerequisite:** Junior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HIST 31123 HISTORY OF POST COLONIAL AFRICA 3 Credit Hours**

This course seeks to challenge students to deconstruct the specific causes, meanings, and consequences of political violence in the 20th and 21st century Africa and the impact such violence has had on African democratic traditions. We will explore recent and current categories of political violence including state violence against ethnic and regional minorities. The course will also examine the positive contributions of African culture and daily life, with attention to alternative futures for Africans and others based on African experience.

**Prerequisite:** Sophomore standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HIST 31124 HIGHLIFE HISTORIES: MODERN AFRICAN URBAN EXPERIENCE 3 Credit Hours**

The term 'high-life' is most often associated with a musical style originating in Ghana and Sierra Leone in the 1920s and popular to the present day. The music mixed the sounds of American, European, and Caribbean influences within African musical traditions. Just like the music, African urban life has been a mixture of Western notions of town planning, architecture, and politics with African cultural and interpersonal traditions. The history of the African city offers a useful lens into the complicated and creative mixture of African and global sources. This course will focus on this mixing over the 20th century, concentrating on cities such as Harare, Zimbabwe; Accra, Ghana; Lagos, Nigeria; and Nairobi, Kenya.

**Prerequisite:** Junior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HIST 31126 HISTORY OF THE MIDDLE EAST 3 Credit Hours**

A survey of Islamic civilization in Middle Eastern context from the earliest days to the present.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HIST 31127 ANCIENT AND EARLY MEDIEVAL JEWISH HISTORY 3 Credit Hours**

Deals with the ancient and early medieval Jewish history from approximately 2000 B.C. to approximately 1200 A.D.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HIST 31128 LATE MEDIEVAL AND MODERN JEWISH HISTORY 3 Credit Hours**

Survey of Jewish history in Europe and the Middle East from the age of the crusades to the 20th century.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HIST 31130 HISTORY OF PRE-COLONIAL AFRICA TO 1880 3 Credit Hours**

This course provides a survey of cultural, political, social and economic history of Africa from antiquity to the onset of European colonialism in the 1880s. The history of the Atlantic, Saharan, and East African slave trade will be investigated, as will the contributions of African cultures to world history.

**Prerequisite:** Sophomore standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HIST 31140 MODERN LATIN AMERICA (DIVG) 3 Credit Hours**

Focuses on 20th-century Latin America and the efforts by social classes and their political leaderships to overcome obstacles of underdevelopment. Emphasis on Argentina, Brazil, Chile, Mexico, Cuba and Central America.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Diversity Global

**HIST 31141 EARLY LATIN AMERICA 3 Credit Hours**

Examines Latin America from precolonial times to the late 19th century. Lectures emphasize political and economic questions while readings focus on social history.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HIST 31500 FOUNDATIONS IN THE HISTORY AND PHILOSOPHY OF SCIENCE 3 Credit Hours**

(Cross-listed with PHIL 31080) An introduction to the study of science as a social, cultural, and historical phenomenon with an emphasis on the history of science primarily in Western civilization since 1500 and the major philosophical approaches to science developed in the twentieth century.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HIST 31543 THE SCIENTIFIC REVOLUTION 3 Credit Hours**

A survey of the major social, cultural, and historical developments in the sciences and medicine in Europe from 1500 to 1750.

**Prerequisite:** Junior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HIST 31550 MEDICINE IN THE MODERN WORLD SINCE 1500 3 Credit Hours**

An introduction to the main social, cultural, and intellectual developments in the history of medicine from the Renaissance to the twentieth century using an approach to the history of medicine which emphasizes the interactions between ideas, institutions, and individuals.

**Prerequisite:** Junior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HIST 32050 HISTORICAL RESEARCH METHODS 3 Credit Hours**

Introduction to the study and practice of historical writing including historical methods, historiography, primary and secondary source research, critical analysis or documentary sources, historical reasoning and the preparation of written reports. Emphasis on developing effective communication skills and research procedures, record-keeping, citation, and bibliography.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**HIST 37001 FLORENCE THE MYTH OF A CITY 3 Credit Hours**

Florence is considered the birthplace of the Renaissance and the cradle of modern Western Civilization because, among the many Italian city-states, it experienced a cultural development that had no precedent in European history. Florentine republicanism is a political paradigm through which we, still today, trace the origins of the values of democracy, freedom, rational thought, individualism, the scientific method and the capacity for critical reflection. This course covers and analyzes different historical eras of Florence from its founding, during the Roman era, up until today. Special attention is given to periods of intensive development in Florence: the re-birth of the Middle Ages, the splendor of the Renaissance, and the crucial role of the Risorgimento, when the city was the capital of the new Kingdom of Italy (1865-1871) and became a center of culture and modern civilization. This course will be offered only in Florence.

**Prerequisite:** Sophomore standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HIST 38495 SPECIAL TOPICS IN AREA STUDIES 3 Credit Hours**

Special course with a primary focus on the history of a particular place (state, nation, region). Topic as well as chronological and geographical focus will vary by term and by instructor. Exact course titles and descriptions will be inserted into the Schedule of Classes. Repeatable for credit.

**Prerequisite:** Sophomore standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HIST 38595 SPECIAL TOPICS IN THEMATIC STUDIES 3 Credit Hours**

Special course with a primary focus on the history of a specific topic or theme. Chronological and geographical focus as well as topic will vary by term and by instructor. Exact course titles and descriptions will be inserted into the Schedule of Classes. Repeatable for credit.

**Prerequisite:** Sophomore standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HIST 40092 INTERNSHIP IN HISTORY (ELR) 3 Credit Hours**

(Repeatable for credit) Student internship at an institution related to the history major (e.g., historical society, museum, archives, historic preservation organization).

**Prerequisite:** Junior standing.

**Schedule Type:** Practical Experience

**Contact Hours:** 3 other

**Grade Mode:** Satisfactory/Unsatisfactory

**Attributes:** Experiential Learning Requirement

**HIST 40093 WORKSHOP IN HISTORY 1-6 Credit Hours**

(Repeatable for credit) (Cross-listed with HIST 50093) Special workshop in history. Topic will vary according to professor.

**Prerequisite:** None.

**Schedule Type:** Workshop

**Contact Hours:** 1-6 other

**Grade Mode:** Satisfactory/Unsatisfactory

**HIST 40197 AMERICAN CULTURAL HERITAGE: THE ARTS AND SOCIETY 3 Credit Hours**

Examination of music, painting and literature in their cultural contexts during four periods of American history. American studies methodology and interdisciplinary thought.

**Prerequisite:** One prior course in history; and junior standing.

**Schedule Type:** Colloquium

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**HIST 41000 INTRODUCTION TO PUBLIC HISTORY 3 Credit Hours**

(Slashed with HIST 51000 and HIST 71000) A survey of public history including: archives, editing, museums and historical agency administration; historic preservation and related skill areas (e.g. artifact analysis, oral history).

**Prerequisite:** Junior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HIST 41006 ROMAN HISTORY 3 Credit Hours**

(Cross-listed with CLAS 41006 and CLAS 51006) (Slashed with HIST 51006 and HIST 71006) A survey of Roman history from its beginnings to the fall of the Roman Empire.

**Prerequisite:** Junior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HIST 41010 THE EARLY MIDDLE AGES 3 Credit Hours**

(Slashed with HIST 51010 and HIST 71010) Survey of major political, social and cultural developments of Europe from the fourth through 10th centuries.

**Prerequisite:** Junior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HIST 41011 THE HIGH MIDDLE AGES 3 Credit Hours**

(Slashed with HIST 51011 and HIST 71011) Survey of political, social and cultural developments of Europe from 11th through 13th centuries.

**Prerequisite:** Junior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HIST 41020 NINETEENTH-CENTURY EUROPE 3 Credit Hours**

Focus on industrialization and social transformation, political upheavals, intellectual thought, nationalism and foreign policy in Great Britain, France, Prussia and Austria.

**Prerequisite:** Junior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HIST 41024 MODERN EUROPEAN HISTORY, 1914-1945 3 Credit Hours**

(Slashed with HIST 51024 and HIST 71024) Special attention paid to the two world wars, Bolshevik Revolution, rise of fascism and fate of European Jewry.

**Prerequisite:** Junior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HIST 41025 MODERN EUROPEAN HISTORY:1945-PRESENT 3 Credit Hours**

(Slashed with HIST 51025 and HIST 71025) Survey of European political, economic, social and cultural developments since 1945.

**Prerequisite:** Junior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HIST 41032 CONSUMPTION AND MASS CULTURE IN MODERN EUROPE 3 Credit Hours**

Examines shifts in consumption and the growth of mass consumer society in Europe from 1815 to the present, including the evolution of consumer societies, or those societies in which people construct their identities through commodities; the changes that ensued with the growth of mass consumption; and differing consumption regimes in Eastern and Western Europe in the twentieth century.

**Prerequisite:** Junior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HIST 41033 WOMEN AND GENDER IN MODERN EUROPE 3 Credit Hours**

The modern period of European history saw revolutionary change politically, economically and socially. In this course, the ways that a gendered analysis can change and deepen our understanding of these historical changes and events is examined, including the "lived experience" of women and men focusing on family, sexual lives, work and politics.

**Prerequisite:** Junior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HIST 41034 THE POLITICS OF DRESS IN MODERN EUROPE 3 Credit Hours**

(Slashed with HIST 51034 and HIST 71034) An examination of the role clothing played in the history of Modern Europe that uses labor, social, gender, and religious history to understand how political and economic changes affected the daily lives of Europeans through a close examination of what they wore.

**Prerequisite:** Sophomore standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HIST 41041 HISTORY OF GERMANY, 1871-PRESENT 3 Credit Hours**

Focuses on the impact of industrialization, the dilemma of the German left, the rise of Nazism and the emergence of two German states after 1945.

**Prerequisite:** Junior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HIST 41044 IMPERIAL RUSSIA, 1689-1917 3 Credit Hours**

(Slashed with HIST 51044 and HIST 71044) Study of the entire imperial period, with focus on modernization, state institutions, nationalities, social groups and estates, economy, politics and ideologies, and elite and popular culture.

**Prerequisite:** Junior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HIST 41045 MODERN RUSSIA, 1917-PRESENT 3 Credit Hours**

(Slashed with HIST 51045 and HIST 71045) Focus on 1917 revolutions; Civil War; nationalities question; NEP, collectivization; Great Terror; World War II; Cold War; Soviet Foreign policy and culture; Perestroika and post-Soviet economic, political and ideological changes.

**Prerequisite:** Junior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HIST 41056 HISTORY OF COLONIAL AMERICA:1492-1714 (DIVD) 3 Credit Hours**

(Slashed with HIST 51056 and HIST 71056) Major patterns of thought and behavior among Spanish, French and English expansionists; English colonization to 1714.

**Prerequisite:** Junior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Diversity Domestic

**HIST 41057 EIGHTEENTH-CENTURY AMERICA:1714-1789 (DIVD) 3 Credit Hours**

(Slashed with HIST 51057 and HIST 71057) Cultural development of English colonies; Great War for Empire; American Revolution and Constitution.

**Prerequisite:** Junior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Diversity Domestic

**HIST 41058 JEFFERSON-JACKSON ERA, 1789-1848 3 Credit Hours**

(Slashed with HIST 51058 and HIST 71058) Study of the founding and development of the American nation, especially the periods of Jefferson and Jackson.

**Prerequisite:** Junior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter



**HIST 41060 COMPARATIVE FASCISM 3 Credit Hours**

(Slashed with HIST 51060 and HIST 71060) Examination of the theories and practices of fascist movements and regimes in twentieth-century Europe utilizing a variety of perspectives. Organized primarily thematically instead of geographically with readings and discussions based on historiographical and critical analyses.

**Prerequisite:** Junior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HIST 41062 THE UNITED STATES:THE WESTWARD MOVEMENT 3 Credit Hours**

(Slashed with HIST 51062 and HIST 71062) The process of settlement from its beginnings; consequences for American history.

**Prerequisite:** Junior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HIST 41071 AMERICAN SOCIAL AND INTELLECTUAL HISTORY, 1876-PRESENT (DIVD) 3 Credit Hours**

(Slashed with HIST 51071) Development of social Darwinism, racism, pragmatism, popular arts.

**Prerequisite:** Junior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Diversity Domestic

**HIST 41077 THE GREAT DEPRESSION IN AMERICA 3 Credit Hours**

Examines the impact and meaning of the Depression era, suggesting that the crisis helped to usher in a new way of imagining American society. Beginning with an overview of modernism, modernity and the modern age, the course explores how the New Deal fits into these theories, how specific programs operated under their ideals, and finally, how American society adapted and accepted this 'modern' vision.

**Prerequisite:** Junior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HIST 41085 THE SIXTIES IN AMERICA 3 Credit Hours**

The era of the 1960s outlined the debates and patterns of American history in the latter part of the twentieth century and continues to resonate in our contemporary world. This course examines the seminal events, persons and developments - including JFK's New Frontiers policy; Martin Luther King Jr. and Malcolm X; the March on Washington; Johnson's Great Society; the Vietnam War; the New Left; the counter-culture; country music; the rise of modern conservatism; Nixon; Watergate; and the Oil Crisis - to get a better understanding of the meaning and significance of this crucial era to the history of the United States and the world.

**Prerequisite:** Junior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HIST 41112 HISTORY OF MODERN CHINA 3 Credit Hours**

(Slashed with HIST 51112 and HIST 71112) Disintegration of the Chinese empire amid Western challenge and internal disorder and the subsequent rise of communism.

**Prerequisite:** Junior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HIST 41129 THE HOLOCAUST: THE DESTRUCTION OF EUROPEAN JEWRY, 1938-1945 3 Credit Hours**

Analysis of those political, economic, social and intellectual factors leading to systematic destruction of European Jewry during World War II.

**Prerequisite:** Junior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HIST 41132 HISTORY OF COLONIAL AFRICA, 1880-1994 3 Credit Hours**

This course provides a survey of African experiences with colonialism from the period of formal colonialism to the period of decolonization and the end of settler colonialism in Rhodesia and South Africa. The course explores regional experiences across sub-Saharan African and North Africa. The course will explore questions of resistance and collaboration and the foundations of post-colonial states in the colonial experience. Gender, class, ethnicity, and generational differences will be explored at the center of this historical survey.

**Prerequisite:** Junior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HIST 41789 THE FRENCH REVOLUTION AND NAPOLEON 3 Credit Hours**

(Slashed with HIST 51789 and HIST 71789) Analysis of the causes of Revolution in France, political, ideological and social conflict in the construction of French democracy expansion of the revolution outside of France.

**Prerequisite:** Senior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HIST 42142 AFRO-LATIN AMERICA 3 Credit Hours**

(Slashed with HIST 52142, HIST 72142) Focuses on the social, cultural and political life of the African population of Latin America, from 19th century slaves to shantytown dwellers of megacities such as Rio de Janeiro. Topics include black resistance to racism, race mixture in multicultural societies, and how employment, political participation and family organization empowered the lives of Afro-Latin women.

**Prerequisite:** Junior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HIST 42297 COLLOQUIUM:CHINA AND JAPAN (WIC) 3 Credit Hours**

Study of important issues in the history of China and Japan through reading and discussing major works pertinent to the issues selected.

**Prerequisite:** Junior standing.

**Schedule Type:** Colloquium

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**Attributes:** Writing Intensive Course

**HIST 43797 COLLOQUIUM ON VICTORIAN ENGLAND (WIC) 3 Credit Hours**

Consideration of distinctive features of Victorian England including class structure, ideas, manners, politics, foreign affairs, empire.

**Prerequisite:** None.

**Schedule Type:** Colloquium

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**Attributes:** Writing Intensive Course

**HIST 48697 COLLOQUIUM:U.S. MIDDLE PERIOD, 1820-1900 (WIC) 3 Credit Hours**

(Slashed with HIST 58697 and HIST 78697) Reading, discussion and written reviewing of important works on the period.

**Prerequisite:** Junior standing.

**Schedule Type:** Colloquium

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**Attributes:** Writing Intensive Course

**HIST 48897 COLLOQUIUM IN AFRICAN AMERICAN HISTORY SINCE 1877 3 Credit Hours**

(Slashed with HIST 58897 and HIST 78897) This colloquium specializes in African American history after 1877, with emphasis on historiographical literature of the period.

**Prerequisite:** Junior standing.

**Schedule Type:** Colloquium

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**HIST 49091 SENIOR SEMINAR IN HISTORY (ELR) (WIC) 3 Credit Hours**

(Repeatable for credit)History majors complete a significant work of original research based on primary sources. Topics vary by instructor. Enrollment limited to senior history majors.

**Prerequisite:** HIST 32050 with minimum C grade; and history major; and senior standing.

**Schedule Type:** Seminar

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**Attributes:** Experiential Learning Requirement, Writing Intensive Course

**HIST 49095 SPECIAL TOPICS IN UNITED STATES HISTORY 3 Credit Hours**

(Repeatable for a maximum of 18 credit hours) (Slashed with HIST 59095 and HIST 79095) Special course in the history of the United States, the subject and topic of which varies by term and instructor. Precise titles and descriptions to be inserted in the Schedule of classes.

**Prerequisite:** Junior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HIST 49195 SPECIAL TOPICS: EUROPE SINCE 1500 3 Credit Hours**

(Repeatable for maximum 18 credit hours) (Slashed with HIST 59195 and HIST 79195) Special course in the history of Europe since 1500, the subject and topic of which varies by term and instructor. Precise titles and descriptions to be inserted in the Schedule of Classes.

**Prerequisite:** Junior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HIST 49196 INDIVIDUAL INVESTIGATION 2,3 Credit Hours**

(Repeatable for credit)

**Prerequisite:** Special approval.

**Schedule Type:** Individual Investigation

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter-IP

**HIST 49199 SENIOR HONORS PROJECT (ELR) 3-6 Credit Hours**

(Repeatable for credit) Thesis or other independent study or creative project. Required of students seeking to graduate with honors in history.

**Prerequisite:** Permission (see HONR 40099).

**Schedule Type:** Senior Project/Honors Thesis

**Contact Hours:** 3-6 other

**Grade Mode:** Standard Letter-IP

**Attributes:** Experiential Learning Requirement

**HIST 49295 SPECIAL TOPICS IN GLOBAL HISTORY 3 Credit Hours**

(Repeatable for credit) (Slashed with HIST 59295 and HIST 79295)

Special course in the history of the ancient and medieval worlds, Africa, Asia, Latin America, and/or the Middle East, the subject and topic of which varies by term and instructor. Precise titles and descriptions to be inserted in the Schedule of Classes.

**Prerequisite:** Junior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HIST 50093 WORKSHOP IN HISTORY 1-6 Credit Hours**

(Repeatable for credit) (Slashed with HIST 40093) Special workshop in history. Topic will vary according to professor.

**Prerequisite:** None.

**Schedule Type:** Workshop

**Contact Hours:** 1-6 other

**Grade Mode:** Satisfactory/Unsatisfactory

**HIST 51000 PUBLIC HISTORY 3 Credit Hours**

(Slashed with HIST 41000 and HIST 71000) A survey of public history including: archives; editing, museums and historical agency administration; historic preservation; and related skill areas (e.g. artifact analysis, oral history).

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HIST 51005 TEACHING WORLD HISTORY 3 Credit Hours**

(Repeatable for credit) (Slashed with HIST 71005) To prepare graduate students to teach world history at the university level. Special focus on integrating non-Western sources and points of view into the world history curriculum, preparation of world history syllabus and justification of selected readings and topics, mastery of on-line and in-class technologies to deliver world history materials.

**Prerequisite:** Graduate standing in history.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HIST 51006 ROMAN HISTORY 3 Credit Hours**

(Cross-listed with CLAS 41006 and CLAS 51006) (Slashed with HIST 41006 and HIST 71006) A survey of Roman history from its beginnings to the Fall of the Roman Empire.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HIST 51010 THE EARLY MIDDLE AGES 3 Credit Hours**

(Slashed with HIST 41010 and HIST 71010) A survey of the major political, social and cultural developments of Europe from the fourth through the tenth century.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HIST 51011 THE HIGH MIDDLE AGES 3 Credit Hours**

(Slashed with HIST 41011 and HIST 71011) A survey of political, social and cultural developments of Europe from the eleventh through the thirteenth century.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HIST 51024 MODERN EUROPEAN HISTORY, 1914-1945 3 Credit Hours**

(Slashed with HIST 41024 and HIST 71024) Special attention paid to the two World Wars, Bolshevik Revolution, rise of Fascism and fate of European Jewry.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HIST 51025 MODERN EUROPEAN HISTORY:1945 TO PRESENT 3 Credit Hours**

(Slashed with HIST 41025 and HIST 71025) Survey of European political, economic, social and cultural developments since 1945.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HIST 51034 THE POLITICS OF DRESS IN MODERN EUROPE 3 Credit Hours**

(Slashed with HIST 41034 and HIST 71034) An examination of the role clothing played in the history of Modern Europe that uses labor, social, gender, and religious history to understand how political and economic changes affected the daily lives of Europeans through a close examination of what they wore.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture, Seminar

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HIST 51044 RUSSIA FROM ITS ORIGINS TO 1801 3 Credit Hours**

(Slashed with HIST 41044 and HIST 71044) Study of the entire imperial period, with focus on modernization, state institutions, nationalities, social groups and estates, economy, politics and ideologies, and elite and popular culture.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HIST 51045 MODERN RUSSIA, 1917-PRESENT 3 Credit Hours**

(Slashed with HIST 41045 and HIST 71045) Focus on 1917 revolutions, civil war, nationalities question, NEP, collectivization, Great Terror, World War II, Cold War, Soviet foreign policy and culture, Perestroika, and post-Soviet economic, political, and ideological changes.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HIST 51056 HISTORY OF COLONIAL AMERICA, 1492-1714 3 Credit Hours**

(Slashed with HIST 41056 and HIST 71056) Major patterns of thought and behavior among Spanish, French and English expansionists; English colonization to 1714.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HIST 51057 18TH-CENTURY AMERICA, 1714-1789 3 Credit Hours**

(Slashed with HIST 41057 and HIST 71057) Cultural development of English Colonies; Great War for Empire; American Revolution and Constitution.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HIST 51058 THE JEFFERSON-JACKSON ERA, 1789-1848 3 Credit Hours**

(Slashed with HIST 41058 and HIST 71058) A study of the founding and development of the American nation, especially the periods of Jefferson and Jackson.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HIST 51060 COMPARATIVE FASCISM 3 Credit Hours**

(Slashed with HIST 41060 and HIST 71060) Examination of the theories and practices of fascist movements and regimes in twentieth-century Europe utilizing a variety of perspectives. Organized primarily thematically instead of geographically with readings and discussions based on historiographical and critical analyses.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HIST 51062 THE UNITED STATES:THE WESTWARD MOVEMENT 3 Credit Hours**

(Slashed with HIST 41062 and HIST 71062) The process of settlement from its beginning; consequences for American history.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HIST 51071 AMERICAN SOCIAL AND INTELLECTUAL HISTORY, 1876 TO PRESENT 3 Credit Hours**

(Slashed with HIST 41071) Development of social Darwinism, racism, Pragmatism, popular arts.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HIST 51097 COLLOQUIUM:SAINTS, MONKS AND THE MEDIEVAL COMMUNITY 3 Credit Hours**

(Repeatable for credit) (Slashed with HIST 71097) Investigates major religious institutions that shaped medieval European society and the impact on popular piety.

**Prerequisite:** Graduate standing.

**Schedule Type:** Colloquium

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**HIST 51112 HISTORY OF MODERN CHINA 3 Credit Hours**

(Slashed with HIST 41112 and HIST 71112) Disintegration of the Chinese empire amid Western challenge and internal disorder and the subsequent rise of Communism.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HIST 51789 THE FRENCH REVOLUTION AND NAPOLEON 3 Credit Hours**

(Slashed with HIST 41789 and HIST 71789) Analysis of the causes of revolution in France, political ideological and social conflict in the construction of French democracy expansion of the revolution outside of France.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HIST 52142 AFRO-LATIN AMERICA 3 Credit Hours**

(Slashed with HIST 42142 and HIST 72142) Course focuses on the social, cultural and political life of the African population of Latin America, from 19th century slaves to shantytown dwellers of megacities such as Rio de Janeiro. Topics include black resistance to racism, race mixture in multicultural societies, and how employment, political participation and family organization empowered the lives of Afro-Latin women.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HIST 58697 COLLOQUIUM:U.S. MIDDLE PERIOD 1820-1900 3 Credit Hours**

(Repeatable for credit) (Slashed with HIST 48697 and HIST 58697) Reading, discussion and written reviewing of important works on the period.

**Prerequisite:** Graduate standing.

**Schedule Type:** Colloquium

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**HIST 58897 COLLOQUIUM IN AFRICAN-AMERICAN HISTORY SINCE 1877 3 Credit Hours**

(Repeatable for credit) (Slashed with HIST 48897 and HIST 78897) This colloquium specializes in African American history from 1877, with emphasis on historiographical literature of the period.

**Prerequisite:** Graduate standing.

**Schedule Type:** Colloquium

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**HIST 59095 SPECIAL TOPICS IN UNITED STATES HISTORY 3 Credit Hours**

(Repeatable for credit) (Slashed with HIST 49095 and HIST 59095) Special course in the history of the United States, the subject and topic of which varies by term and instructor. Precise titles and descriptions to be inserted in the Schedule of Classes. Repeatable.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HIST 59195 SPECIAL TOPICS: EUROPE SINCE 1500 3 Credit Hours**

(Repeatable for credit) (Slashed with HIST 49195 and HIST 79195) Special course in the history of Europe since 1500, the subject and topic of which varies by term and instructor. Precise titles and descriptions to be inserted in the Schedule of Classes.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HIST 59295 SPECIAL TOPICS IN GLOBAL HISTORY 3 Credit Hours**

(Repeatable for credit) (Slashed with HIST 49295 and HIST 79295) Special course in the history of the ancient and medieval worlds, Africa, Asia, Latin America, and/or the Middle East, the subject and topic of which varies by term and instructor. Precise titles and descriptions to be inserted in the Schedule of Classes.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HIST 60092 PUBLIC HISTORY INTERNSHIP 3-6 Credit Hours**

(Repeatable for credit) (Slashed with HIST 70092) Students serve an internship at an institution related to their emphasis in public history (e.g., historical society, museum, archives, historical preservation organization).

**Prerequisite:** Graduate standing.

**Schedule Type:** Practical Experience

**Contact Hours:** 3-6 other

**Grade Mode:** Satisfactory/Unsatisfactory

**HIST 61002 HISTORIOGRAPHY 3 Credit Hours**

Development of historical thinking. Students will read excerpts of famous historians and prepare papers.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HIST 61070 WRITING SEMINAR IN HISTORY 3 Credit Hours**  
(Repeatable for credit) (Slashed with HIST 81070) Students will spend the semester conceptualizing, researching and writing an article-length piece of original historical scholarship. Basic topics to be addressed include prospectus drafting, source identification, historiography, research methods, scholarly writing and revision, oral presentation and professional critiquing. All students will be expected to supplement the guidance they receive from the seminar instructor with regular consultations with their departmental advisors.

**Prerequisite:** Graduate standing.

**Schedule Type:** Seminar

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HIST 62070 AMERICAN HISTORY FROM PRECONTACT NATIVE AMERICA THROUGH THE CIVIL WAR 3 Credit Hours**

(Slashed with HIST 82070) This reading colloquium will survey the major aspects of American history from the arrival of Europeans in North America through the colonial period of American history and up to the Civil War and Reconstruction. Students will be introduced to both historical content as well as the major historiographical currents in this segment of US history. The aim of the course is to prepare students for comprehensive exams as well as to teach the first half of the US survey course.

**Prerequisite:** Graduate standing.

**Schedule Type:** Colloquium, Seminar

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**HIST 62071 AMERICAN HISTORY FROM THE CIVIL WAR TO THE PRESENT 3 Credit Hours**

(Slashed with HIST 82071) This reading colloquium will survey major aspects of American history since the Civil War within the historiographical traditions through which they have been understood. The aim of the course is to prepare students for comprehensive exams as well as to teach the second half of the US survey course.

**Prerequisite:** Graduate standing.

**Schedule Type:** Colloquium, Seminar

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**HIST 62097 PUBLIC HISTORY COLLOQUIUM 3 Credit Hours**

(Repeatable for credit) (Slashed with HIST 72097) Assigned readings, discussions and papers focus on particular emphases and skill areas in public history.

**Prerequisite:** Graduate standing.

**Schedule Type:** Colloquium

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**HIST 62285 AMERICAN INTELLECTUAL AND CULTURAL HISTORY SINCE 1877 3 Credit Hours**

(Slashed with HIST 82285) This colloquium will explore American Intellectual and Cultural History after 1877 by focusing on modernity. Our readings will discuss modernity's evolution from its late nineteenth-century roots to its dismantlement in the current epoch. We will hear, see, and read about this idea and how it is applied to various manifestations within our society, from material culture to advertising, music, and film.

**Prerequisite:** Graduate standing.

**Schedule Type:** Colloquium, Seminar

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HIST 62345 IMAGES AND IDENTITIES IN US FOREIGN RELATIONS 3 Credit Hours**

This graduate-level reading colloquium will explore the construction of cultural images and national identities in US foreign relations. Course readings and discussions will deal not only with the ways that Americans have "constructed" other nations but also with how other nations have "constructed" the United States. Themes to be explored include the role of intangibles such as culture in the making of policy; the accuracy or inaccuracy of cultural constructs; and the permanency or malleability of cultural ideas.

**Prerequisite:** Graduate standing.

**Schedule Type:** Colloquium, Seminar

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HIST 62400 THE LENS OF WAR: AMERICAN HISTORY THROUGH THE STUDY OF THE MILITARY 3 Credit Hours**

(Slashed with HIST 82400) A survey of the impact conflict and the peacetime military have had on both the history and historiography of colonial America and the United States. Thematic points of emphasis include, but are not limited to civil-military relations, race, national identity, memory, gender, western expansion, American economic development, the growth of the federal government, Cold War culture, and citizenship.

**Prerequisite:** Graduate standing.

**Schedule Type:** Colloquium, Seminar

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HIST 69199 THESIS I 2-6 Credit Hours**

Thesis students must register for a total of 6 hours, 2 to 6 hours in a single semester distributed over several semesters if desired.

**Prerequisite:** Graduate standing.

**Schedule Type:** Masters Thesis

**Contact Hours:** 2-6 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**HIST 69299 THESIS II 2 Credit Hours**

Thesis students must continue registration each semester until all degree requirements are met.

**Prerequisite:** HIST 69199; and graduate standing.

**Schedule Type:** Masters Thesis

**Contact Hours:** 2 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**HIST 69399 CAPSTONE IN HISTORY 3 Credit Hours**

Capstone experience required of all MA students who are not writing a thesis. Students will develop an original research project and disseminate their work either through publication or presentation. Projects should integrate primary and secondary source research.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Masters Thesis, Project or Capstone

**Contact Hours:** 3 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP



**HIST 69499 INTERDISCIPLINARY PROJECT IN HISTORY 3,6 Credit Hours**

Research experience required for all students enrolled in the Master's in History for Secondary School Teachers concentration. Students will draw on their history coursework to complete a substantial piece of research applicable to the work of a practicing teacher. It can be pedagogical in nature, exploring strategies for teaching a particular subject, topic, or historical concept, or might be documentary in nature, such as historically informed teaching materials for a given subject, topic, or concept.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Project or Capstone

**Contact Hours:** 3-6 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**HIST 69896 INDIVIDUAL INVESTIGATION 2,3 Credit Hours**

(Repeatable for credit)

**Prerequisite:** Graduate standing.

**Schedule Type:** Individual Investigation

**Contact Hours:** 2-3 other

**Grade Mode:** Standard Letter-IP

**HIST 69898 RESEARCH 1-15 Credit Hours**

(Repeatable for credit)

**Prerequisite:** Graduate standing.

**Schedule Type:** Research

**Contact Hours:** 1-15 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**HIST 70092 PUBLIC HISTORY INTERNSHIP 3-6 Credit Hours**

(Repeatable for credit) (Slashed with HIST 60092) Students serve an internship at an institution related to their emphasis in public history (e.g., historical society, museum, archives, historical preservation organization).

**Prerequisite:** Doctoral standing.

**Schedule Type:** Practical Experience

**Contact Hours:** 3-6 other

**Grade Mode:** Satisfactory/Unsatisfactory

**HIST 71000 PUBLIC HISTORY 3 Credit Hours**

(Slashed with HIST 41000 and HIST 51000) A survey of public history including: archives, editing, museums and historical agency administration; historic preservation; and related skill areas (e.g. artifact analysis, oral history).

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HIST 71005 TEACHING WORLD HISTORY 3 Credit Hours**

(Repeatable for a maximum of 9 credit hours) (Slashed with HIST 51005) To prepare graduate students to teach world history at the university level. Special focus on integrating non-Western sources and points of view into the world history curriculum, preparation of world history syllabus and justification of selected readings and topics, mastery of on-line and in-class technologies to deliver world history materials.

**Prerequisite:** Doctoral standing in History.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HIST 71006 ROMAN HISTORY 3 Credit Hours**

(Cross-listed with CLAS 41006, CLAS 51006) (Slashed with HIST 41006 and HIST 51006) A survey of Roman history from its beginning to the fall of the Roman empire.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HIST 71010 THE EARLY MIDDLE AGES 3 Credit Hours**

(Slashed with HIST 41010 and HIST 51010) Survey of major political, social and cultural developments of Europe from the fourth through 10th centuries.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HIST 71011 THE HIGH MIDDLE AGES 3 Credit Hours**

(Slashed with HIST 41011 and HIST 51011) Survey of political, social and cultural developments of Europe from 11th through 13th centuries.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HIST 71024 MODERN EUROPEAN HISTORY, 1914-1945 3 Credit Hours**

(Slashed with HIST 41024 and HIST 51024) Special attention paid to the two world wars, Bolshevik Revolution, rise of fascism and fate of European Jewry.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HIST 71025 MODERN EUROPEAN HISTORY: 1945 TO PRESENT 3 Credit Hours**

(Slashed with HIST 41025 and HIST 51025) Survey of European political, economic social and cultural developments since 1945.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HIST 71034 THE POLITICS OF DRESS IN MODERN EUROPE 3 Credit Hours**

(Slashed with HIST 41034 and HIST 51034) An examination of the role clothing played in the history of Modern Europe that uses labor, social, gender, and religious history to understand how political and economic changes affected the daily lives of Europeans through a close examination of what they wore.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture, Seminar

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HIST 71044 RUSSIA FROM ITS ORIGINS TO 1801 3 Credit Hours**  
(Slashed with HIST 41044 and HIST 51044) Study of the entire imperial period, with focus on modernization, state institutions, nationalities, social groups and estates, economy, politics and ideologies, and elite and popular culture.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HIST 71045 MODERN RUSSIA, 1917-PRESENT 3 Credit Hours**  
(Slashed with HIST 41045 and HIST 51045) Focus on 1917 revolutions; Civil War; nationalities question; NEP; collectivization; great terror; World War II; Cold War; Soviet Foreign policy and culture; Perestroika and post-Soviet economic, political and ideological changes.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HIST 71056 HISTORY OF COLONIAL AMERICA, 1492-1714 3 Credit Hours**

(Slashed with HIST 41056 and HIST 51056) Major patterns of thought and behavior among Spanish, French and English expansionists; English colonization to 1714.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HIST 71057 18TH-CENTURY AMERICA, 1714-1789 3 Credit Hours**

(Slashed with HIST 41057 and HIST 51057) Cultural development of English Colonies; Great War for Empire; American Revolution and Constitution.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HIST 71058 THE JEFFERSON-JACKSON ERA, 1789-1848 3 Credit Hours**

(Slashed with HIST 41058 and HIST 51058) Study of the founding and development of the American nation, especially the periods of Jefferson and Jackson.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HIST 71060 COMPARATIVE FACISM 3 Credit Hours**

(Slashed with HIST 41060 and HIST 51060) Examination of the theories and practices of fascist movements and regimes in twentieth-century Europe utilizing a variety of perspectives. Organized primarily thematically instead of geographically with readings and discussions based on historiographical and critical analyses.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HIST 71062 THE UNITED STATES:THE WESTWARD MOVEMENT 3 Credit Hours**

(Slashed with HIST 41062 and HIST 51062) The process of settlement from its beginnings; consequences for American history.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HIST 71097 COLLOQUIUM:SAINTS, MONKS AND THE MEDIEVAL COMMUNITY 3 Credit Hours**

(Repeatable for credit) (Slashed with HIST 51097) Investigates major religious institutions that shaped medieval European society and the impact on popular piety.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Colloquium

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**HIST 71112 HISTORY OF MODERN CHINA 3 Credit Hours**

(Slashed with HIST 41112 and HIST 51112) Disintegration of the Chinese empire amid Western challenge and internal disorder and the subsequent rise of communism.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HIST 71789 THE FRENCH REVOLUTION AND NAPOLEON 3 Credit Hours**

(Slashed with HIST 41789 and HIST 51789) Analysis of the causes of revolution in France, political ideological and social conflict in the construction of French democracy expansion of the revolution outside of France.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HIST 72097 PUBLIC HISTORY COLLOQUIUM 3 Credit Hours**

(Repeatable for credit) (Slashed with HIST 62097) Assigned readings, discussions and papers focus on particular emphases and skill areas in public history.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Colloquium

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**HIST 72140 THE SIXTIES:A THIRD WORLD VIEW 3 Credit Hours**

Examines the political, social and cultural upheaval of the 1960s in Latin America, Africa and Asia.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HIST 72142 AFRO-LATIN AMERICA 3 Credit Hours**

(Slashed with HIST 42142 and HIST 52142) Course focuses on the social, cultural and political life of the African population of Latin America, from 19th century slaves to shantytown dwellers of megacities such as Rio de Janeiro. Topics include black resistance to racism, race mixture in multicultural societies, and how employment, political participation and family organization empowered the lives of Afro-Latin women.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HIST 78697 COLLOQUIUM:U.S. MIDDLE PERIOD 1820-1900 3 Credit Hours**

(Repeatable for credit) (Slashed with HIST 48697 and HIST 58697) Coverage of the historical literature on Europe's major political, diplomatic, economic and social developments since 1945.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Colloquium

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**HIST 78897 COLLOQUIUM IN AFRICAN-AMERICAN HISTORY SINCE 1877 3 Credit Hours**

(Repeatable for credit) (Slashed with HIST 48897 and HIST 58897) This colloquium specializes in African American history after 1877, with emphasis on historiographical literature of the period.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Colloquium

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**HIST 79095 SPECIAL TOPICS IN UNITED STATES HISTORY 3 Credit Hours**

(Repeatable for credit) (Slashed with HIST 49095 and HIST 59095) Special course in the history of the United States, the subject and topic of which varies by term and instructor. Precise titles and descriptions to be inserted in the Schedule of Classes.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HIST 79195 SPECIAL TOPICS: EUROPE SINCE 1500 3 Credit Hours**

(Repeatable for credit) (Slashed with HIST 49195 and HIST 59195) Special course in the history of Europe since 1500, the subject and topic of which varies by term and instructor. Precise titles and descriptions to be inserted in the Schedule of Classes.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HIST 79295 SPECIAL TOPICS IN GLOBAL HISTORY 3 Credit Hours**

(Repeatable for credit) (Slashed with HIST 49295 and HIST 59295) Special course in the history of the ancient and medieval worlds, Africa, Asia, Latin America, and/or the Middle East, the subject and topic of which varies by term and instructor. Precise titles and descriptions to be inserted in the Schedule of Classes.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HIST 81001 METHODS OF HISTORICAL RESEARCH 3 Credit Hours**

The course introduces graduate students to library reference tools, journal literature, research methodology, quantitative techniques and writing and original research paper.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HIST 81002 HISTORIOGRAPHY 3 Credit Hours**

Development of historical thinking. Students will read excerpts of famous historians and prepare papers.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HIST 81070 WRITING SEMINAR IN HISTORY 3 Credit Hours**

(Repeatable twice for credit) (Slashed with HIST 61070) Students will spend the semester conceptualizing, researching, and writing an article-length piece of original historical scholarship. Basic topics to be addressed include prospectus drafting, source identification, historiography, research methods, scholarly writing and revision, oral presentation, and professional critiquing. All students will be expected to supplement the guidance they receive from the seminar instructor with regular consultations with their departmental advisors.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Seminar

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HIST 82070 AMERICAN HISTORY FROM PRECONTACT NATIVE AMERICA THROUGH THE CIVIL WAR 3 Credit Hours**

(Slashed with HIST 62070) This reading colloquium will survey the major aspects of American history from the arrival of Europeans in North America through the colonial period of American history and up to the Civil War and Reconstruction. Students will be introduced to both historical content as well as the major historiographical currents in this segment of US history. The aim of the course is to prepare students for comprehensive exams as well as to teach the first half of the US survey course.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Colloquium, Seminar

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**HIST 82071 AMERICAN HISTORY FROM THE CIVIL WAR TO THE PRESENT 3 Credit Hours**

(Slashed with HIST 62071) This reading colloquium will survey major aspects of American history since the Civil War within the historiographical traditions through which they have been understood. The aim of the course is to prepare students for comprehensive exams as well as to teach the second half of the US survey course.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Colloquium, Seminar

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**HIST 82285 AMERICAN INTELLECTUAL AND CULTURAL HISTORY SINCE 1877 3 Credit Hours**

(Slashed with HIST 82285) This colloquium will explore American Intellectual and Cultural History after 1877 by focusing on modernity. Our readings will discuss modernity's evolution from its late nineteenth-century roots to its dismantlement in the current epoch. We will hear, see, and read about this idea and how it is applied to various manifestations within our society, from material culture to advertising, music, and film.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Colloquium, Seminar

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HIST 82345 IMAGES AND IDENTITIES IN US FOREIGN RELATIONS 3 Credit Hours**

This graduate-level reading colloquium will explore the construction of cultural images and national identities in US foreign relations. Course readings and discussions will deal not only with the ways that Americans have "constructed" other nations but also with how other nations have "constructed" the United States. Themes to be explored include the role of intangibles such as culture in the making of policy; the accuracy or inaccuracy of cultural constructs; and the permanency or malleability of cultural ideas.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Colloquium, Seminar

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HIST 82400 THE LENS OF WAR: AMERICAN HISTORY THROUGH THE STUDY OF THE MILITARY 3 Credit Hours**

(Slashed with HIST 62400) A survey of the impact conflict and the peacetime military have had on both the history and historiography of colonial America and the United States. Thematic points of emphasis include, but are not limited to civil-military relations, race, national identity, memory, gender, western expansion, American economic development, the growth of the federal government, Cold War culture, and citizenship.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Colloquium, Seminar

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HIST 89199 DISSERTATION I 15 Credit Hours**

(Repeatable for credit) Doctoral dissertation, for which registration in at least two semesters is required first of which will be semester in which dissertation work is begun and continuing until the completion of 30 hours.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Dissertation

**Contact Hours:** 15 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**HIST 89299 DISSERTATION II 15 Credit Hours**

(Repeatable for credit) Continuing registration required of doctoral students who have completed the initial 30 hours of dissertation and continuing until all degree requirements are met.

**Prerequisite:** HIST 89199; and doctoral standing.

**Schedule Type:** Dissertation

**Contact Hours:** 15 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**HIST 89896 INDIVIDUAL INVESTIGATION 2,3 Credit Hours**

(Repeatable for credit)

**Prerequisite:** Doctoral standing.

**Schedule Type:** Individual Investigation

**Contact Hours:** 2-3 other

**Grade Mode:** Standard Letter-IP

**HIST 89898 RESEARCH 1-15 Credit Hours**

(Repeatable for credit)

**Prerequisite:** Doctoral Standing.

**Schedule Type:** Research

**Contact Hours:** 1-15 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

## Honors (HONR)

**HONR 10096 INDIVIDUAL HONORS WORK 1-4 Credit Hours**

(Repeatable for credit) Directed independent study for freshmen in any department.

**Prerequisite:** Special approval of department.

**Schedule Type:** Individual Investigation

**Contact Hours:** 1-4 other

**Grade Mode:** Standard Letter-IP

**HONR 10197 FRESHMAN HONORS COLLOQUIUM I (KCMP) 1-4 Credit Hours**

(Repeatable for credit) Required of all honors freshmen in lieu of College Writing. Stresses exploration, discussion and communication of ideas expressed in works related to theme of colloquium.

**Prerequisite:** Admitted to the Honors College.

**Schedule Type:** Colloquium

**Contact Hours:** 1-4 other

**Grade Mode:** Standard Letter-IP

**Attributes:** Kent Core Composition

**HONR 10297 FRESHMAN HONORS COLLOQUIUM II (KCMP) 1-4 Credit Hours**

(Repeatable for credit) Continuation of HONR 10197.

**Prerequisite:** Admitted to the Honors College.

**Schedule Type:** Colloquium

**Contact Hours:** 1-4 other

**Grade Mode:** Standard Letter-IP

**Attributes:** Kent Core Composition

**HONR 13597 COLLOQUIUM: THE WESTERN IDENTITY (KADL) 3 Credit Hours**

(Repeatable for credit) Focuses on Western and non-Western cultures from a comparative perspective, in order to identify both different and shared values and to see how one's own culture shapes one's perspective, ideology, and values.

**Prerequisite:** Admitted to the Honors College; and special approval.

**Schedule Type:** Colloquium

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Kent Core Additional

**HONR 20096 INDIVIDUAL HONORS WORK 1-4 Credit Hours**

(Repeatable for credit) Directed independent study for sophomores in any department.

**Prerequisite:** Special approval of the department.

**Schedule Type:** Individual Investigation

**Contact Hours:** 1-4 other

**Grade Mode:** Standard Letter-IP

**HONR 20197 SOPHOMORE COLLOQUIUM 1-4 Credit Hours**  
(Repeatable for credit) One-semester course or two-semester sequence exploring interdisciplinary ideas and issues related to a single theme, by means of readings, discussion and individual papers and projects.

**Prerequisite:** Admitted to the Honors College.

**Schedule Type:** Colloquium

**Contact Hours:** 1-4 other

**Grade Mode:** Standard Letter-IP

**HONR 20297 SOPHOMORE COLLOQUIUM 1-4 Credit Hours**  
(Repeatable for credit) One-semester course or two-semester sequence exploring interdisciplinary ideas and issues related to a single theme, by means of readings, discussion and individual papers and projects.

**Prerequisite:** Admitted to the Honors College.

**Schedule Type:** Colloquium

**Contact Hours:** 1-4 other

**Grade Mode:** Standard Letter-IP

**HONR 30096 INDIVIDUAL HONORS WORK 1-4 Credit Hours**  
(Repeatable for credit) Directed independent study for juniors in any department.

**Prerequisite:** Special approval of department.

**Schedule Type:** Individual Investigation

**Contact Hours:** 1-4 other

**Grade Mode:** Standard Letter-IP

**HONR 30197 JUNIOR COLLOQUIUM 1-4 Credit Hours**  
(Repeatable for credit) One-semester course or two-semester sequence for juniors or seniors exploring interdisciplinary ideas and issues related to single theme, by means of readings, discussion and individual papers and projects.

**Prerequisite:** Admitted to the Honors College.

**Schedule Type:** Colloquium

**Contact Hours:** 1-4 other

**Grade Mode:** Standard Letter-IP

**HONR 30297 JUNIOR COLLOQUIUM 1-4 Credit Hours**  
(Repeatable for credit) One-semester course or two-semester sequence for juniors or seniors exploring interdisciplinary ideas and issues related to single theme, by means of readings, discussion and individual papers and projects.

**Prerequisite:** Admitted to the Honors College.

**Schedule Type:** Colloquium

**Contact Hours:** 1-4 other

**Grade Mode:** Standard Letter-IP

**HONR 40085 SENIOR HONORS PORTFOLIO 1 Credit Hour**  
Construction of a senior portfolio, consisting of a collection of artifacts and a reflective essay interpreting the student's growth during the college years.

**Prerequisite:** Senior standing.

**Schedule Type:** Individual Investigation

**Contact Hours:** 1 other

**Grade Mode:** Standard Letter-IP

**HONR 40096 INDIVIDUAL HONORS WORK 1-4 Credit Hours**  
(Repeatable for credit) Directed independent study for seniors in any department.

**Prerequisite:** Prior special approval of instructor; and special approval of and preregistration with Honors College.

**Schedule Type:** Individual Investigation

**Contact Hours:** 1-4 other

**Grade Mode:** Standard Letter-IP

**HONR 40099 SENIOR HONORS THESIS/PROJECT (ELR) 1-10 Credit Hours**

(Repeatable for credit) Thesis or creative project.

**Prerequisite:** Special approval of department.

**Schedule Type:** Senior Project/Honors Thesis

**Contact Hours:** 1-10 other

**Grade Mode:** Standard Letter-IP

**Attributes:** Experiential Learning Requirement

**HONR 40197 SENIOR COLLOQUIUM 1-4 Credit Hours**  
(Repeatable for credit) One-semester course or two-semester sequence exploring interdisciplinary ideas and issues related to single theme, by means of readings, discussion and individual papers and projects.

**Prerequisite:** Admitted to the Honors College.

**Schedule Type:** Colloquium

**Contact Hours:** 1-4 other

**Grade Mode:** Standard Letter-IP

**HONR 40297 SENIOR COLLOQUIUM 1-4 Credit Hours**  
(Repeatable for credit) One-semester course or two-semester sequence exploring interdisciplinary ideas and issues related to single theme, by means of readings, discussion and individual papers and projects.

**Prerequisite:** Admitted to the Honors College.

**Schedule Type:** Colloquium

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter-IP

## Horticulture (HORT)

**HORT 10195 SPECIAL TOPICS IN HORTICULTURE 1-3 Credit Hours**  
(Repeatable for credit) Analysis of significant and current issues in horticulture not covered in regular courses.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 1-3 lecture

**Grade Mode:** Standard Letter

**HORT 16001 INTRODUCTION TO HORTICULTURE 1 Credit Hour**  
A survey of those opportunities available within the 'green industry' both in education and as a career option. Guest speakers and field trips are part of the class.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 1 lecture

**Grade Mode:** Standard Letter

**HORT 16010 FLORAL DESIGN I 3 Credit Hours**  
Introduction to the concepts and practices of floral design for use in commercial settings. Topics include floral design theory, history, techniques and the skills required in the commercial floral design industry. Lab experience covers construction of basic floral products.

**Prerequisite:** None.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 2 lecture, 2 lab

**Grade Mode:** Standard Letter

**HORT 16011 FLORAL DESIGN II 3 Credit Hours**  
Advanced training in a broad array of floral design applications including wedding design, contemporary European and Asian design, tropical flowers and outdoor compositions. Students will be provided hands-on laboratory activities to apply the principles of design.

**Prerequisite:** None.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 2 lecture, 2 lab

**Grade Mode:** Standard Letter



**HORT 16020 PLANT MATERIALS I 3 Credit Hours**

Design, selection, culture, and maintenance of flowering plants and foliage including annuals, perennials, bulbs and tropical plants for indoor and outdoor use.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HORT 16021 WHOLESALE FLORICULTURE 3 Credit Hours**

Commercial production, marketing, inventory management and post-harvest care associated with the floriculture industry.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HORT 16022 GREENHOUSE STRATA 3 Credit Hours**

Introduction to growing containerized plants in greenhouses and nurseries. Emphasis will be on issues related to traditional and alternative substrates, root media, irrigation practices, and soil matter.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HORT 26001 OCCUPATIONAL REGULATIONS AND SAFETY 2 Credit Hours**

Presentation of the basic standards, rules, safety regulations and laws pertaining to horticultural and related industries which will affect the work atmosphere. Lecture two hours weekly; offered only at the Geauga and Salem campuses.

**Corequisite:** BSCI 16001 and HORT 16001.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**HORT 26010 ARBORICULTURE 3 Credit Hours**

Basics of pruning and tree climbing techniques. Covers the equipment and safe use of equipment commonly found in the arboricultural industry. Lecture two hours weekly; lab three hours weekly; offered only at the Salem campuses.

**Prerequisite:** BSCI 16001 and HORT 16001.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 2 lecture, 3 lab

**Grade Mode:** Standard Letter

**HORT 26011 COOPERATIVE WORK EXPERIENCE IN TREE CARE 3 Credit Hours**

(Repeatable for credit) Cooperative work program through which the skills necessary to perform professionally in this occupation will be acquired. This course offered only at the Salem Campus. Requires a minimum of 30 hours per week of work experience. Not more than 9 semester hours in this or a combination of other work experience classes will be allowed.

**Corequisite:** HORT 26010.

**Schedule Type:** Field Experience

**Contact Hours:** 3 lecture

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**HORT 26012 URBAN FORESTRY 3 Credit Hours**

Urban forestry and the planning and managing of urban green-scapes. Appraisal and computerized GIS/GPS inventory of urban vegetation, urban land use planning and legal ordinances, maintenance and management of street and park trees. Outdoor field trips and guest lecturers.

**Prerequisite:** HORT 16001 and BSCI 16001.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HORT 26016 IRRIGATION DESIGN AND MAINTENANCE 3 Credit Hours**

Principles of irrigation design, installation maintenance and drainage. Specific information about the selection of sprinkler heads, pipe, pumps, basic hydraulics, water conservation methods and automatic control systems shall be explored. Drawing of irrigation plans shall be required.

**Prerequisite:** HORT 16001 and BSCI 16001.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**HORT 26018 LANDSCAPE CONSTRUCTION 3 Credit Hours**

The basic skills and techniques involved in landscape contracting and construction, including building material data, site grading, contour mapping, deck construction, water features, lighting, landscape paving and retaining walls. Field trips and outside hands-on experience.

**Prerequisite:** HORT 16001 or advisor's approval.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**HORT 26020 LANDSCAPE MANAGEMENT 3 Credit Hours**

A detailed discussion and practice of managing trees, shrubs and flowers within the landscape. Additional concepts such as the types of equipment used in the 'green industry', marketing, writing specifications, bidding projects and personnel management.

**Prerequisite:** BSCI 16001 and HORT 16001.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** CTAG Horticulture

**HORT 26021 COOPERATIVE WORK EXPERIENCE IN LANDSCAPE MANAGEMENT 3 Credit Hours**

(Repeatable for credit) Cooperative work program through which the skills necessary to perform professionally in this occupation will be acquired. This course offered only at the Salem Campus. Requires a minimum of 30 hours per week of work experience. Not more than 9 semester hours in this or a combination of other work experience will be allowed.

**Corequisite:** HORT 26020.

**Schedule Type:** Field Experience

**Contact Hours:** 3 lecture

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**HORT 26030 TURF GRASS MANAGEMENT 3 Credit Hours**

Basic principles of turf management. Covers turf equipment and the safe use of equipment commonly found in the turf industry. Lecture two hours weekly; lab three hours weekly; course offered only at the Salem campus.

**Prerequisite:** BSCI 16001 and HORT 16001.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 2 lecture, 3 lab

**Grade Mode:** Standard Letter

**Attributes:** CTAG Horticulture

**HORT 26031 COOPERATIVE WORK EXPERIENCE IN TURF GRASS MANAGEMENT 3 Credit Hours**

(Repeatable for Credit) Cooperative work program through which the skills necessary to perform professionally in this occupation will be acquired. This course offered only at the Salem Campus. Requires a minimum of 30 hours per week of work experience. Not more than 9 semester hours in this or a combination of other work experience classes will be allowed.

**Corequisite:** HORT 26030.

**Schedule Type:** Field Experience

**Contact Hours:** 3 lecture

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**HORT 26032 GOLF COURSE MANAGEMENT 3 Credit Hours**

The golf course environment as it relates to turf grass maintenance and pest/disease management. The construction and management of greens, tees, water and bunker management practices, turf aerification issues, topdressing and administrative concerns.

**Prerequisite:** HORT 16001 and HORT 26031 and BSCI 16001.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HORT 26046 LANDSCAPE DESIGN I 3 Credit Hours**

An introduction to landscape appreciation and history, the landscape industry and elements of the landscape design process. Students will assess proper plant placement and uses, develop graphic communication skills and present a project. Field trips and project site work as required.

**Prerequisite:** HORT 16001 and BSCI 16001 and BSCI 26003.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 2 lecture, 4 lab

**Grade Mode:** Standard Letter

**HORT 30195 SPECIAL TOPICS IN HORTICULTURE 3 Credit Hours**

(Repeatable for credit) Analysis of significant and current topics in horticulture not covered in regular classes.

**Prerequisite:** None.

**Schedule Type:** Laboratory, Lecture, Combined Lecture and Lab

**Contact Hours:** 2 lecture, 2 lab

**Grade Mode:** Standard Letter

**HORT 36014 PLANT PROPAGATION AND GREENHOUSE PRODUCTION 3 Credit Hours**

Asexual/vegetative propagation including anatomical and physical concepts. Techniques covered include cuttings, budding, grafting, layering, dividing and micropropagation. Plant propagation by seeding and plugs are promoted along with crop production. Students provide an annual production schedule. Lecture two hours weekly; lab three hours weekly.

**Prerequisite:** HORT 16001 and BSCI 16001.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 2 lecture, 3 lab

**Grade Mode:** Standard Letter

**HORT 36018 LANDSCAPE CONSTRUCTION II 3 Credit Hours**

Advanced landscape construction techniques involved in landscape contracting with an emphasis on the overall layout and planning of a landscape project. Students master and research product documentation, layout plans, written specifications and detailed construction drawings as they pertain to built landscape environments. Specific field site work with real world applications. Lecture two hours weekly; lab 3 hours weekly.

**Prerequisite:** HORT 26018; and junior or senior standing.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 2 lecture, 3 lab

**Grade Mode:** Standard Letter

**HORT 36025 PROFESSIONAL PRACTICE IN HORTICULTURE (WIC) 3 Credit Hours**

Investigation into owning and operating a green industry company including customer relations, wholesale and retail marketing, project bidding, potential profit and loss margins, communication requirements, and overall services to public and private clientele.

**Prerequisite:** HORT 26001 and HORT 26016 and HORT 26018.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Writing Intensive Course

**HORT 36034 SPORTS TURF MANAGEMENT 3 Credit Hours**

Identification of grass plant species; culture and morphology; turf ecology with practical information on turf establishment and cultural practices. Covers issues of design, renovation, and maintenance of sports grounds and facilities. Class requires 20 hours service learning component.

**Prerequisite:** HORT 26030; and junior or senior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HORT 36046 LANDSCAPE DESIGN II 3 Credit Hours**

Advanced landscape design looking at overall landscape planning, including site and planting design, site amenities, irrigation design and client needs. Special attention to communication formats such as color rendering and graphics, as well as to overall presentation. Some design modeling and graphic sketching are included.

**Prerequisite:** HORT 26012 or HORT 26032 or HORT 26046; and junior or senior standing.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 2 lecture, 3 lab

**Grade Mode:** Standard Letter

**HORT 36092 INTERNSHIP IN HORTICULTURE (ELR) 1-4 Credit Hours**

(Repeatable for credit) Internship experience in an advanced field of study within the horticulture/green industry, building on the student's understanding of science-based fundamentals. Internship requires a minimum of 210 working hours with an approved public organization or private green industry firm, and 2 hours per week consultation on independent research as approved and supervised by the academic program director. Work includes supporting documentation and written reports as deemed appropriate give the subject studied.

**Prerequisite:** Special approval.

**Schedule Type:** Practical Experience

**Contact Hours:** 3-12 other

**Grade Mode:** Standard Letter

**Attributes:** Experiential Learning Requirement

**HORT 41096 INDIVIDUAL INVESTIGATION IN HORTICULTURE 1-3 Credit Hours**

(Repeatable for credit) Research under the direction of a horticulture faculty/program director mentor. Investigation of specific horticulture topics that build upon previous concentration areas of study.

**Prerequisite:** Junior or senior standing.

**Schedule Type:** Individual Investigation

**Contact Hours:** 1-3 other

**Grade Mode:** Standard Letter-IP

**HORT 46014 GARDEN CENTER AND NURSERY PRODUCTION MANAGEMENT 3 Credit Hours**

Survey of plant production of container, bare-root, balled-in-burlap plant materials in a nursery setting. Exploration of physiological principles involved, including planting, maturity dates for harvest, shipping, garden center activities and wholesale and retail marketing of stock.

**Prerequisite:** BSCI 26002 and BMRT 11000; and junior or senior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HORT 46092 PRACTICUM IN HORTICULTURE (ELR) 3 Credit Hours**

(Repeatable for credit) An in-depth individual project, combining field experiences with original research within a green industry niche. Area of interest supports the student's educational goals given their intended concentration of past class work.

**Prerequisite:** HORT 36092; and junior or senior standing.

**Schedule Type:** Practical Experience

**Contact Hours:** 16 other

**Grade Mode:** Standard Letter-IP

**Attributes:** Experiential Learning Requirement

## Hospitality Management (HM)

**HM 13022 SANITATION AND SAFETY PRINCIPLES AND PRACTICES 3 Credit Hours**

Food safety and sanitation practices for restaurants and foodservices as related to foodborne illness prevention, food purchasing, receiving, storage, preparation, cooling and heating practices, and sanitation of dishes and overall facility. HACCP plans, microbiological concerns related to foods, government regulations and inspections, and employee safety and accident prevention are covered.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** CTAG Culinary and Food Service

**HM 13023 TECHNIQUES OF FOOD PRODUCTION 6 Credit Hours**

Commercial food production principles for milk, cheese, eggs, produce, grains, meats, poultry and fish are covered. Sauces, soups, salads, entrees, side dishes and desserts are prepared with an emphasis on food quality and safety, effective equipment use, work planning and simplification, recipe standardization, pricing and presentation.

**Prerequisite:** HM 13022; and hospitality management major.

**Schedule Type:** Laboratory, Lecture, Combined Lecture and Lab

**Contact Hours:** 3 lecture, 6 lab

**Grade Mode:** Standard Letter

**Attributes:** CTAG Culinary and Food Service

**HM 13024 INTRODUCTION TO HOSPITALITY MANAGEMENT 3 Credit Hours**

Career opportunities and the scope, development and history of the hospitality industry. Introduction to management in the hospitality industry including food service, lodging and tourism.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** CTAG Culinary and Food Service

**HM 21095 SPECIAL TOPICS IN HOSPITALITY MANAGEMENT 1-4 Credit Hours**

(Repeatable for a maximum of 8 credit hours) Discussion of a major discipline or subject within the hospitality industry.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 1-4 lecture

**Grade Mode:** Standard Letter

**HM 23012 INTRODUCTORY FOOD SCIENCE 3 Credit Hours**

(Cross-listed with NUTR 23012) Principles of food preparation and quality evaluation, with an emphasis on food science concepts, nutrition, food consumption trends and government regulation.

**Prerequisite:** NUTR 23511.

**Schedule Type:** Laboratory, Lecture, Combined Lecture and Lab

**Contact Hours:** 2 lecture, 3 lab

**Grade Mode:** Standard Letter

**Attributes:** TAG Health

**HM 23030 HOTEL OPERATIONS 3 Credit Hours**

The purpose of this course is to give students a basic understanding of the overall hotel operations. Students will be introduced to the principles and practices of managerial functions relating to the operation of hotels and other accommodations.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** CTAG Culinary and Food Service

**HM 23510 QUANTITY FOOD PRODUCTION, SERVICE AND SAFETY 3 Credit Hours**

(Cross-listed with NUTR 23510) The application of management principles in quantity food production and service systems, including safety and sanitation; production forecasting and management; distribution; and service, commercial equipment and physical facilities. Introduction to inventory, recipe standardization and considerations of nutrition, quality and sustainability in quantity production.

**Prerequisite:** NUTR 23112.

**Schedule Type:** Laboratory, Lecture, Combined Lecture and Lab

**Contact Hours:** 2 lecture, 3 lab

**Grade Mode:** Standard Letter

**HM 33020 LEGAL ISSUES IN THE HOSPITALITY INDUSTRY 3 Credit Hours**

Overview and analysis of legal issues of concern to the hospitality operation. Topics include employment law, food and beverage liabilities, patron civil rights, local, state, and federal regulations; and franchising.

**Prerequisite:** Junior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HM 33026 HOSPITALITY COST CONTROL AND ANALYSIS 3 Credit Hours**

Prepares students to analyze and control costs encountered in hospitality operations. Includes computer applications, math drills and simulations.

**Prerequisite:** ACCT 23020, CIS 24053 and HM 13023.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HM 33028 HOSPITALITY PURCHASING 3 Credit Hours**

Emphasis on the selection of food, goods and services for the management of hospitality organizations. Emphasis is placed on product identification, grading and quality standards.

**Prerequisite:** HM 13023.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HM 33029 CATERING AND BANQUET MANAGEMENT 3 Credit Hours**

The course includes an in-depth analysis of all components of the catering profession including management, legal aspects, getting started in business, catering contracts, menu planning, beverage service, catering equipment, catering logistics, personnel, marketing, pricing, sanitation and safety practices, purchasing, accessory services, accounting and control practices.

**Prerequisite:** HM 33026.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HM 33031 FOOD, WINE AND BEVERAGE PAIRING 3 Credit Hours**

Provides knowledge of the sensory relationship of food, wine, beer and other spirits and the important role this process has on hospitality operations. Topics include developing an understanding of wine, beer and food pairing as a hierarchical process. Menu development and cooking the food play an important role in this class; food is chosen first then paired with the appropriate beverage. Students must be 21 years old to enroll in the class.

**Prerequisite:** None.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 2 lecture, 2 lab

**Grade Mode:** Standard Letter

**HM 33036 CLUB MANAGEMENT 3 Credit Hours**

Introduction to private club management and operations. Strategic planning, marketing, human resources, service excellence, legal issues and financial management will be emphasized within the context of food and beverage, golf and recreation.

**Prerequisite:** Junior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HM 33040 CONVENTION SALES AND MANAGEMENT 3 Credit Hours**

From a sales and convention management perspective, the convention and meetings industry is examined. Students are introduced to all facets of the conventions and meetings industry.

**Prerequisite:** HM 23030; and junior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HM 33050 PROFESSIONAL PRACTICE IN HOSPITALITY MANAGEMENT 1 Credit Hour**

Preparation of students for professional work experiences in hospitality management. Career development and professional workplace issues are addressed.

**Prerequisite:** Meet hospitality management professional study requirements; and junior standing.

**Schedule Type:** Lecture

**Contact Hours:** 1 lecture

**Grade Mode:** Standard Letter

**HM 33070 INTERNATIONAL CUISINE 4 Credit Hours**

Provides comprehensive coverage of cuisines found throughout the world, not only through recipes and techniques but also through coverage of the history, culture, geography, religion, and locally grown ingredients that influence these various cuisines. The intent is to increase learning and retention through repetitive practice cooking, using recipes steeped in culinary history and culture from around the world.

**Prerequisite:** Sophomore standing.

**Schedule Type:** Laboratory, Lecture, Combined Lecture and Lab

**Contact Hours:** 1.5 lecture, 5 lab

**Grade Mode:** Standard Letter

**HM 33145 BAKING AND PASTRY FUNDAMENTALS 3 Credit Hours**

Building on the theoretical and practical foundations of Baking and Pastry Fundamentals, this course will help students develop advanced skills and knowledge in the production and selection of quality handcrafted and purchased products. Scientific principles and experimental methods will be explored and addition emphasis will be placed on advanced decorating and finishing techniques, yeast beads, sweet doughs, cakes, tortes, chocolate work.

**Prerequisite:** None.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 1.5 lecture, 4 lab

**Grade Mode:** Standard Letter

**HM 37777 CASINO MANAGEMENT AND GAMING OPERATIONS 3 Credit Hours**

Introduction to the various aspects of the casino and gaming industry. Students study the structure of casino organizations, gain basic understanding of gaming operations and responsible gaming. Casino environments are experienced through on-site visitations. Funds for travel are the student's responsibility, and all students must be legal age of 21 prior to on-site class visitations.

**Prerequisite:** Special approval.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 2.5 lecture, 1 lab

**Grade Mode:** Standard Letter

**HM 41093 VARIABLE TOPIC WORKSHOP IN HOSPITALITY MANAGEMENT 1-3 Credit Hours**

(Repeatable for credit) Workshop setting dealing with a topic or topics in hospitality management. Learning experiences are provided in a wide range of areas.

**Prerequisite:** None.

**Schedule Type:** Workshop

**Contact Hours:** 1-3 other

**Grade Mode:** Satisfactory/Unsatisfactory



**HM 41095 SPECIAL TOPICS IN HOSPITALITY MANAGEMENT 1-4****Credit Hours**

(Repeatable for credit) Discussion of a major topic within a specific field of hospitality management.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 1-4 lecture

**Grade Mode:** Standard Letter

**HM 41096 INDIVIDUAL INVESTIGATION 1-3 Credit Hours**

(Repeatable for credit) Independent study in hospitality management.

**Prerequisite:** Written permission from instructor.

**Schedule Type:** Individual Investigation

**Contact Hours:** 1-3 other

**Grade Mode:** Standard Letter

**HM 43025 HOSPITALITY MARKETING 3 Credit Hours**

Application of marketing principles, practices and theories relevant to hospitality organizations. Case studies drawn from the hospitality industry are incorporated.

**Prerequisite:** HM 13023 and MGMT 24163 and MKTG 25010.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HM 43027 HOSPITALITY HUMAN RESOURCE MANAGEMENT (WIC) 3 Credit Hours**

(Slashed with HM 53027) Application of human resource management principles, practices, theories and legal issues relevant to hospitality organizations. Hospitality management focused case studies are incorporated.

**Prerequisite:** HM 13023 and HRM 34180.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Writing Intensive Course

**HM 43029 HOSPITALITY FINANCIAL POLICY 3 Credit Hours**

(Slashed with HM 53029) Developing financial analysis skills and decision making capabilities for short-and long-term financial management problems in the unique setting of service industries with a specific focus on hospitality organizations, restaurants, clubs and resorts, through case analysis.

**Prerequisite:** HM 33026.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HM 43030 FOOD SERVICE SYSTEMS MANAGEMENT 3 Credit Hours**

(Slashed with HM 53030)(Cross-listed with NUTR 43030 and NUTR 53030) Food service systems management, including systems theory; menu planning and evaluation; procurement; food production systems; sustainability; layout and design basics. Management concepts in non-commercial food service, including financial control, marketing, quality, management, leadership and human resources.

**Prerequisite:** HM 23012 or NUTR 23012; and HM 23510 or NUTR 23510.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** TAG Health

**HM 43031 LAYOUT AND DESIGN OF FOOD SERVICE OPERATIONS 3 Credit Hours**

Analysis and planning for the layout and design of commercial food service operations. Includes basic principles of design; space analysis; and equipment use, care, selection and layout for food service facilities based on the financial performance of the operation; food codes and related regulations. An appreciation for engineering and architecture concerns pertaining to food service operations is developed.

**Prerequisite:** HM 33026.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HM 43035 HOSPITALITY SERVICE QUALITY MANAGEMENT 3 Credit Hours**

(Slashed with HM 53035) Tourism and hospitality are service industries. A significant element in these industries is management of the service encounters which will be the focus this course. In order to provide a comprehensive, inter- and multi-disciplinary view, the course will be constructed in three modules. The first module will present the characteristics and dynamics of the service encounter. The second module will focus on successful service encounters (service quality) and its outcome (customer satisfaction). The third module will present the dynamics of service failure and service recovery. The three modules of this course will provide an opportunity to understand the dynamics of the service encounter, to manage service quality and to learn how to identify service failure and plan for service recovery.

**Prerequisite:** MGMT 24163.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HM 43040 STRATEGIC HOTEL MANAGEMENT 3 Credit Hours**

(Slashed with HM 53040) The hotel manager's role as a strategic thinker is emphasized. Techniques such as co-alignment model, brand strategy, competitor analysis, market research, risk management and finance options are used to develop strategic plans in hotels.

**Prerequisite:** HM 23030 and HM 33026.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 2 lecture, 2 lab

**Grade Mode:** Standard Letter

**HM 43043 HOSPITALITY MEETINGS MANAGEMENT 3 Credit Hours**

(Slashed with HM 53043) Exploration of the unique issues associated with managing hospitality meeting and event planning. Emphasis on management of social, association and corporate events, weddings, reunions, award banquets, receptions and annual meetings held in hospitality venues requiring food and beverage and/or lodging.

**Prerequisite:** HM 23030 and HM 33026.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter



**HM 43092 PRACTICUM IN HOSPITALITY MANAGEMENT (ELR) 3-6 Credit Hours**

(Repeatable for a total of 6 credit hours) Supervised professional experience in the hospitality industry including operations such as restaurants, hotels, clubs, health care, theme parks and food distribution. Course assignments are included. Repeatable for a total of 6 credits.

**Prerequisite:** HM 33050; and junior or senior standing; and special approval.

**Schedule Type:** Practical Experience

**Contact Hours:** 19-37 other

**Grade Mode:** Satisfactory/Unsatisfactory

**Attributes:** Experiential Learning Requirement

**HM 43192 HOSPITALITY MEETINGS MANAGEMENT PRACTICUM (ELR) 2 Credit Hours**

(Slashed with HM 53192) Practical experience in a hospitality establishment related to: inside and outside event sales, event management, guest services, food and beverage management, event staff scheduling, banquet operations, maintenance and housekeeping related to events.

**Corequisite:** HM 43043.

**Schedule Type:** Practical Experience

**Contact Hours:** 6 other

**Grade Mode:** Standard Letter

**Attributes:** Experiential Learning Requirement

**HM 51092 HOSPITALITY AND TOURISM MANAGEMENT PROFESSIONAL PRACTICUM 3 Credit Hours**

Supervised professional experience in the hospitality and-or tourism industry including operations such as restaurants, hotels, clubs, resorts, theme parks, and casinos. Minimum of 405 hours in the field.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Practical Experience

**Contact Hours:** 27 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**HM 53025 HOSPITALITY MARKETING 3 Credit Hours**

(Slashed with HM 53025) Application of marketing principles, practices and theories relevant to hospitality organizations. Internet marketing in hospitality. Case studies drawn from the hospitality industry are incorporated.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HM 53027 HOSPITALITY HUMAN RESOURCE MANAGEMENT 3 Credit Hours**

(Slashed with HM 43027) Application of human resource management principles, practices, theories and legal issues relevant to hospitality organizations. Hospitality management focused case studies and current controversies are incorporated.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HM 53029 HOSPITALITY FINANCIAL POLICY 3 Credit Hours**

(Slashed with HM 43029) Developing financial analysis skills and decision making capabilities for short-and long-term financial management problems in the unique setting of service industries with a specific focus on hospitality organizations, restaurants, clubs and resorts, through case analysis.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HM 53030 FOOD SERVICE SYSTEMS MANAGEMENT 3 Credit Hours**

(Slashed with HM 43030)(Cross-listed with NUTR 43030 and NUTR 53030) Food service systems management, including systems theory; menu planning and evaluation; procurement; food production systems; sustainability; layout and design basics. Management concepts in non-commercial food service, including financial control, marketing, quality, management, leadership and human resources.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HM 53035 HOSPITALITY SERVICE QUALITY MANAGEMENT 3 Credit Hours**

(Slashed with HM 43035) Tourism and hospitality are service industries. A significant element in these industries is management of the service encounters which will be the focus this course. In order to provide a comprehensive, inter- and multi-disciplinary view, the course will be constructed in three modules. The first module will present the characteristics and dynamics of the service encounter. The second module will focus on successful service encounters (service quality) and its outcome (customer satisfaction). The third module will present the dynamics of service failure and service recovery. The three modules of this course will provide an opportunity to understand the dynamics of the service encounter, to manage service quality and to learn how to identify service failure and plan for service recovery.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HM 53040 STRATEGIC HOTEL MANAGEMENT 3 Credit Hours**

(Slashed with HM 43040) The hotel manager's role as a strategic thinker is emphasized. Techniques such as co-alignment model, brand strategy, competitor analysis, market research, risk management and finance options are used to develop strategic plans in hotels.

**Prerequisite:** Graduate standing.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 2 lecture, 2 lab

**Grade Mode:** Standard Letter

**HM 53043 HOSPITALITY MEETINGS MANAGEMENT 3 Credit Hours**

(Slashed with HM 43043) Exploration of the unique issues associated with managing hospitality meeting and event planning. Emphasis on management of social, association and corporate events, weddings, reunions, award banquets, receptions and annual meetings held in hospitality venues requiring food and beverage and/or lodging.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HM 53192 HOSPITALITY MEETINGS MANAGEMENT PRACTICUM 2 Credit Hours**

(Slashed with HM 43192) Practical experience in a hospitality establishment related to: inside and outside event sales, event management, guest services, food and beverage management, event staff scheduling, banquet operations, maintenance and housekeeping related to events.

**Prerequisite:** Graduate standing; and special approval.

**Corequisite:** HM 53043.

**Schedule Type:** Practical Experience

**Contact Hours:** 2 lab

**Grade Mode:** Standard Letter

**HM 61098 RESEARCH IN HOSPITALITY MANAGEMENT 1-15 Credit Hours**

(Repeatable for credit) Research for master's-level graduate students. Credit earned may be applied toward meeting degree requirements if school approves.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Research

**Contact Hours:** 1-15 other

**Grade Mode:** Standard Letter

**HM 61198 MASTERS PROJECT IN HOSPITALITY MANAGEMENT 2-6 Credit Hours**

(Repeatable for credit) Completion and successful defense of master's project. Master's project students must register for a total of 6 credit hours, 2-6 in a single semester; distributed over several semesters if desired.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Research

**Contact Hours:** 2-6 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**HM 61199 THESIS I 2-6 Credit Hours**

(Repeatable for credit) Thesis students register for a total of 6 credit hours, 2 to 6 hours in a single semester, distributed over several semesters if desired.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Masters Thesis

**Contact Hours:** 2-6 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**HM 61299 THESIS II 2 Credit Hours**

(Repeatable for credit) Thesis II students must continue registration each semester until all degree requirements are met.

**Prerequisite:** HM 61199; and graduate standing.

**Schedule Type:** Masters Thesis

**Contact Hours:** 2 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**HM 63022 CURRENT ISSUES IN HOSPITALITY AND TOURISM MANAGEMENT 3 Credit Hours**

Current research and management issues in hotels, resorts, restaurants, clubs and other hospitality operations are explored through the peer-reviewed and professional literature. Current tourism topics with implications for hospitality managers are included.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HM 63024 MANAGEMENT OF FOOD AND NUTRITION SERVICES 3 Credit Hours**

Management issues in healthcare, food and nutrition services, child nutrition programs and other noncommercial food services will be examined. The impact of quality standards, public policy and current societal trends upon management of noncommercial operations will be studied.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HM 63026 RESEARCH SEMINAR 1 Credit Hour**

(Repeatable once for credit) Presentation and discussion of research and projects by students and faculty. 2 credit hours to be applied toward degree requirements.

**Prerequisite:** Graduate standing.

**Corequisite:** SPAD 63098 or 63199 or 63299; or HM 61198 or 61199 or 61299.

**Schedule Type:** Seminar

**Contact Hours:** 1 other

**Grade Mode:** Standard Letter

**HM 63092 HOSPITALITY AND TOURISM MANAGEMENT PRACTICUM 1 Credit Hour**

Supervised professional experience in a hospitality or travel and tourism setting. This course is supervised by a practitioner and faculty member(s) with whom the student works closely. Course assignments are included.

**Prerequisite:** Hospitality and tourism management major; and graduate standing.

**Schedule Type:** Practical Experience

**Contact Hours:** 20 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**HM 63095 SPECIAL TOPICS IN HOSPITALITY MANAGEMENT 1-3 Credit Hours**

(Repeatable for credit) Specialized offering of a major topic within hospitality management.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 1-3 lecture

**Grade Mode:** Standard Letter

**HM 64010 HOSPITALITY AND TOURISM MANAGEMENT CAPSTONE 3 Credit Hours**

This capstone course provides a comprehensive view of the business setting of hospitality and tourism organizations. The course includes a review of the competitive business environments, competitive advantage, above-average performance and competitive strategies as they pertain to hospitality and tourism management. The course will highlight current strategic issues in hospitality and tourism management referring to the most recent literature (practitioners' literature and academic journals). The course concludes with a capstone group case analysis of a business problem in hospitality and, or tourism.

**Prerequisite:** RPTM 56000 or HM 53025; and MIS 64005 or EVAL 65510; and HM 63022, RPTM 65041 and RPTM 65047; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Satisfactory/Unsatisfactory

# Human Development and Family Studies (HDFS)

## HDFS 14027 INTRODUCTION TO HUMAN DEVELOPMENT AND FAMILY STUDIES 3 Credit Hours

This course is intended to introduce students to the study of lifespan development and family studies. Career opportunities available to Human Development and Family Studies (HDFS) graduates are explored and skills required to succeed in the field are introduced.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

## HDFS 24011 INTERPERSONAL RELATIONSHIPS AND FAMILIES (DIVD) 3 Credit Hours

(Equivalent to SOC 24011) Exploration of the sociological nature of families across the lifespan, focusing on structure, diversity and life course processes such as dating, mate selection, cohabitation, marriage, parenthood, divorce, remarriage, singlehood, widowhood, parent-child interactions, sexual orientation, inequality and difference.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Diversity Domestic

## HDFS 24012 CHILD DEVELOPMENT 3 Credit Hours

General development of the child from prenatal through middle childhood.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

## HDFS 24013 EARLY ADOLESCENCE 3 Credit Hours

Examines the fundamental transitions, social contexts and psychosocial processes involved in human development from ages 10 through 15. Implications for working with this age group within schools, human services agencies and youth development programs.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

## HDFS 24014 BRIDGING CROSS-NATIONAL RELATIONSHIPS FOR INDIVIDUALS AND FAMILIES 3 Credit Hours

This an interactive course designed to promote students' intercultural competence. The course provides students with an introduction to key components of various cultures around the world and with skills with which to build effective relationships with individuals from countries others than their own.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

## HDFS 24095 SPECIAL TOPICS IN HUMAN DEVELOPMENT AND FAMILY STUDIES 1-4 Credit Hours

(Repeatable for credit) Discussion of a major topic within human development or family studies.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 1-4 lecture

**Grade Mode:** Standard Letter

## HDFS 25512 MANAGEMENT OF FAMILY RESOURCES 3 Credit Hours

Management as applied to individuals, families and human service professionals.

**Prerequisite:** HDFS 24011.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

## HDFS 34031 CULTURAL DIVERSITY:IMPLICATIONS FOR THE HELPING PROFESSIONS 3 Credit Hours

This class is designed to enhance the competence and success of students planning to work in human services. Learning how different cultural backgrounds influence the perceptions and behaviors of clients in the human service setting is emphasized.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

## HDFS 41093 VARIABLE TOPIC WORKSHOP:HUMAN DEVELOPMENT AND FAMILY STUDIES 1-3 Credit Hours

(Repeatable for credit) Workshop setting dealing with a topic or topics in human development and family studies. Learning experiences are provided in a wide range of areas.

**Prerequisite:** None.

**Schedule Type:** Workshop

**Contact Hours:** 1-3 other

**Grade Mode:** Satisfactory/Unsatisfactory

## HDFS 41095 SPECIAL TOPICS IN HUMAN DEVELOPMENT AND FAMILY STUDIES 1-4 Credit Hours

(Repeatable for credit) (Slashed with HDFS 51095) Discussion of a major topic within human development or family studies.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 1-4 lecture

**Grade Mode:** Standard Letter

## HDFS 41096 INDIVIDUAL INVESTIGATION 1-3 Credit Hours

(Repeatable for credit) (Slashed with HDFS 51096) Independent study in human development and family studies.

**Prerequisite:** Written special approval from instructor.

**Schedule Type:** Individual Investigation

**Contact Hours:** 1-3 other

**Grade Mode:** Standard Letter

## HDFS 42092 HUMAN DEVELOPMENT AND FAMILY STUDIES STUDY AWAY EXPERIENCE (ELR) 3 Credit Hours

(Repeatable twice for credit) Exploration of human development and family studies-related topics while visiting various cultural contexts.

**Prerequisite:** Minimum 2.750 overall GPA; and special approval.

**Schedule Type:** Field Experience

**Contact Hours:** 9 other

**Grade Mode:** Standard Letter-IP

**Attributes:** Experiential Learning Requirement

**HDFS 44018 PROFESSIONAL DEVELOPMENT IN HUMAN DEVELOPMENT AND FAMILY STUDIES 3 Credit Hours**

Preparation of students for professional work experiences as well as providing an opportunity to discuss recent developments in the fields of human development, family studies and gerontology.

**Prerequisite:** Admission into the HDFS professional phase; and senior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HDFS 44020 ADOLESCENT DEVELOPMENT 3 Credit Hours**

(Slashed with HDFS 54020) Study of adolescent development with emphasis on forces related to adolescent behavior in the family and society. Evaluation of current research.

**Prerequisite:** Admission into the HDFS professional phase.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HDFS 44021 FAMILY INTERVENTION ACROSS THE LIFESPAN 3 Credit Hours**

(Slashed with HDFS 54021) Evaluation of research and theoretical models in the area of family intervention. Focus on strategies for assisting families in coping with a variety of critical issues over the family life cycle.

**Prerequisite:** Admission into the HDFS professional phase.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HDFS 44022 CHANGING ROLES OF MEN AND WOMEN 3 Credit Hours**

(Slashed with HDFS 54022) A study of roles of men and women, past, present and future.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HDFS 44023 BUILDING FAMILY STRENGTHS 3 Credit Hours**

(Slashed with HDFS 54023) The Building Family Strengths Model builds upon family life potential; based on extensive research emphasizing identified family strengths.

**Prerequisite:** Admission into the HDFS professional phase.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HDFS 44028 PARENT-CHILD RELATIONSHIPS 3 Credit Hours**

(Slashed with HDFS 54028) Study of parent-child relationships across the life span and within various contexts. Emphasis on the process of socialization and determinants of parent-child relationships based on current research.

**Prerequisite:** Admission into the HDFS professional phase.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HDFS 44029 FAMILY POLICY 3 Credit Hours**

(Slashed with HDFS 54029) Understanding federal, state and local policy issues affecting families. Role of family life educator in promoting a family-friendly perspective in policy making.

**Prerequisite:** Admission into the HDFS professional phase.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HDFS 44030 FAMILY LIFE EDUCATION METHODOLOGY 3 Credit Hours**

Developing teaching methods and techniques for family life education and the study of family life education content areas.

**Prerequisite:** Admission into the HDFS professional phase.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HDFS 44032 NONPROFIT FUNDRAISING AND GRANTWRITING 3 Credit Hours**

(Slashed with HDFS 54032) Provides comprehensive preparation in planning, seeking and acquiring funding from available resources in supporting the mission of nonprofit human service agencies.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HDFS 44033 COMMUNITY OUTREACH IN NONPROFIT MANAGEMENT (ELR) 3 Credit Hours**

An overview of nonprofit organizations at the local, national and international levels, including how to start and manage one. A comprehensive examination of the Board of Directors, advocacy and lobbying, program development, mission, vision and strategic goals, philanthropic fundraising and the financial management process, as well as the legal aspects. In addition, students will study service learning and complete a Field Experience at a nonprofit organization.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Experiential Learning Requirement

**HDFS 44034 PRINCIPLES AND PRACTICES OF NONPROFIT MANAGEMENT 3 Credit Hours**

An overview of nonprofit organizations including the areas of risk management, mentoring, cultural competence, social entrepreneurship, and how to effectively manage paid staff and volunteers. In addition, students will learn about earned income strategies and the marketing-communication process, including the use of technology. The course will also cover leadership, communication and conflict resolution skills. Other areas of study include accountability and transparency, ethical behavior, building capacity, change management, and the importance of collaborations and mergers and government support in the sector.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HDFS 44035 ASSESSMENT AND STRATEGIES IN CASE MANAGEMENT**  
**3 Credit Hours**

An examination of the evaluation of client needs and assessment of client condition. Course emphasizes interviewing as a major assessment strategy.

**Prerequisite:** Admission into the HDFS professional phase.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HDFS 44036 GENERAL CASE MANAGEMENT METHODS**  
**3 Credit Hours**

Examination of case management processes and strategies, with focus on community resources to meet client needs in the human service setting.

**Prerequisite:** Admission into the HDFS professional phase.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HDFS 44037 POSITIVE YOUTH DEVELOPMENT**  
**3 Credit Hours**

Examines individual, family, school and community characteristics that comprise developmental assets contributing to positive youth development (PYD). Definitions and descriptions of PYD approaches are examined as well as evaluations of program effectiveness. Common elements of PYD programs are explored, such as emphasizing youths' strengths, providing opportunities to learn healthy behaviors, promoting positive peer relationships, connecting youth with caring adults, empowering youth to assume leadership roles, and challenging youth in ways that build their competence. Implications for professional child and youth work are discussed.

**Prerequisite:** HDFS 44020; and admission into the HDFS professional phase.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HDFS 44038 PROFESSIONAL CHILD AND YOUTH WORK PRACTICE**  
**3 Credit Hours**

Provides students with an understanding of the historical and current methodologies and organizational structures of professional child and youth work practice, emphasizing a synthesis of previous and new learning regarding five domains of competence (professionalism, cultural and human diversity, applied human development, relationship and communication and developmental practice methods). Practice issues in community-based and out-of-home care settings as well as work with various child and youth populations are explored.

**Prerequisite:** Admission into the HDFS professional phase.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HDFS 44039 BEREAVEMENT, TRAUMA AND OTHER LOSSES**  
**3 Credit Hours**

Exploration of the impact of death, trauma and other losses on individuals and families across the lifespan. Consideration of gender, social and cultural context. Implications for human services professionals.

**Prerequisite:** HDFS 24011.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HDFS 44092 PRACTICUM IN HUMAN DEVELOPMENT AND FAMILY STUDIES (ELR)**  
**3-6 Credit Hours**

(Repeatable for credit) (Slashed with HDFS 54092) Observation and participation in child, family and social service agencies. One class discussion per week. Students are required to complete Bureau of Criminal Investigation and Identification (BCII) and Federal Bureau of Investigation (FBI) background checks and submit the results to authorized personnel at their assigned school agency before the first day of the semester in which student teaching internship will take place. Major GPA of 2.250 is required.

**Prerequisite:** HDFS 44018; and admission into the HDFS professional phase; and senior standing; and special approval.

**Schedule Type:** Practical Experience

**Contact Hours:** 1 lecture, 14-35 other

**Grade Mode:** Standard Letter

**Attributes:** Experiential Learning Requirement

**HDFS 44192 INTERNSHIP IN HUMAN DEVELOPMENT AND FAMILY STUDIES-CASE MANAGEMENT I (ELR)**  
**3-6 Credit Hours**

(Repeatable for credit) Supervised field experience in a human service agency. Joint university-agency supervision.

**Prerequisite:** Admission into HDFS professional phase; and junior standing.

**Corequisite:** HDFS 44035.

**Schedule Type:** Practical Experience

**Contact Hours:** 3-6 other

**Grade Mode:** Standard Letter

**Attributes:** Experiential Learning Requirement

**HDFS 44292 INTERNSHIP IN HUMAN DEVELOPMENT AND FAMILY STUDIES-CASE MANAGEMENT II (ELR)**  
**3-6 Credit Hours**

(Repeatable for credit) Continued supervised field experience in a human service agency. Joint university-agency supervision.

**Prerequisite:** HDFS 44192; and admission into the HDFS professional phase; and junior standing.

**Corequisite:** HDFS 44036.

**Schedule Type:** Practical Experience

**Contact Hours:** 9-18 other

**Grade Mode:** Standard Letter

**Attributes:** Experiential Learning Requirement

**HDFS 51093 VARIABLE TITLE WORKSHOP IN HUMAN DEVELOPMENT AND FAMILY STUDIES**  
**1-3 Credit Hours**

(Repeatable for credit) (Slashed with HDFS 41093) Workshop setting dealing with a topic or topics in human development and family studies. Learning experiences are provided in a wide range of areas.

**Prerequisite:** Graduate standing.

**Schedule Type:** Workshop

**Contact Hours:** 1-3 other

**Grade Mode:** Satisfactory/Unsatisfactory

**HDFS 51095 SPECIAL TOPICS IN HUMAN DEVELOPMENT AND FAMILY STUDIES**  
**1-4 Credit Hours**

(Repeatable for credit) (Slashed with HDFS 41095) Discussion of a major topic within human development and family studies.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 1-4 lecture

**Grade Mode:** Standard Letter



**HDFS 51096 INDIVIDUAL INVESTIGATION 1-3 Credit Hours**

(Repeatable for credit) (Slashed with HDFS 41096) Independent study in human development and/or family studies.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Individual Investigation

**Contact Hours:** 1-3 other

**Grade Mode:** Standard Letter

**HDFS 52092 HUMAN DEVELOPMENT AND FAMILY STUDIES STUDY AWAY EXPERIENCE 3 Credit Hours**

(Repeatable twice for credit) Exploration of human development and family studies-related topics while visiting various cultural contexts.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Field Experience

**Contact Hours:** 9 other

**Grade Mode:** Standard Letter-IP

**HDFS 54020 ADOLESCENT DEVELOPMENT 3 Credit Hours**

(Slashed with HDFS 44020) Adolescent development with emphasis on forces related to adolescent behavior. Evaluation of current research.

**Prerequisite:** Human development and family studies major; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HDFS 54021 FAMILY INTERVENTION ACROSS THE LIFE SPAN 3 Credit Hours**

(Slashed with HDFS 44021) Evaluation of research and theoretical models in the area of family intervention. Focus on strategies for assisting families in coping with a variety of critical issues over the family life cycle.

**Prerequisite:** Human development and family studies major; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HDFS 54022 CHANGING ROLES OF MEN AND WOMEN 3 Credit Hours**

(Slashed with HDFS 44022) A study of roles of men and women, past, present, and future.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HDFS 54023 BUILDING FAMILY STRENGTHS 3 Credit Hours**

(Slashed with HDFS 44023) The building family strengths model builds upon family life potential, based on extensive research emphasizing identified family strengths.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HDFS 54028 PARENT-CHILD RELATIONSHIPS 3 Credit Hours**

Study of parent-child relationships across the life span and within various contexts. Emphasis on the process of socialization and determinants of parent-child relationships based on current research.

**Prerequisite:** Human development and family studies major; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HDFS 54029 FAMILY POLICY 3 Credit Hours**

(Slashed with HDFS 44029) Understanding federal, state and local policy issues affecting families. Role of family life educator in promoting a family-friendly perspective in policy making.

**Prerequisite:** Human development and family studies major; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HDFS 54032 NONPROFIT FUNDRAISING AND GRANTWRITING 3 Credit Hours**

(Slashed with HDFS 44032) Provides comprehensive preparation in planning, seeking and acquiring funding from available resources in supporting the mission of nonprofit human services agencies.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HDFS 54037 POSITIVE YOUTH DEVELOPMENT 3 Credit Hours**

Examines individual, family, school and community characteristics that comprise developmental assets contributing to positive youth development (PYD). Definitions and descriptions of PYD approaches are examined as well as evaluations of program effectiveness. Common elements of PYD programs are explored, such as emphasizing youths' strengths, providing opportunities to learn health behaviors, promoting positive peer relationships, connecting youth with caring adults, empowering youth to assume leadership roles, and challenging youth in ways that build their competence. Implications for professional child and youth work are discussed. Students complete a program development project.

**Prerequisite:** HDFS 54020; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HDFS 54038 PROFESSIONAL CHILD AND YOUTH WORK PRACTICE 3 Credit Hours**

(Slashed with HDFS 44038) Provides students with an understanding of the historical and current methodologies and organizational structures of professional child and youth work practice emphasizing a synthesis of previous and new learning regarding five domains of competence (professionalism, culture and human diversity, applied human development, relationship and communication and developmental practice methods). Practice issues in community-based an out of home care settings as well as work with various child and youth populations are to be explored. Students complete a program development and evaluation project.

**Prerequisite:** Human development and family studies major; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HDFS 54039 BEREAVEMENT, TRAUMA AND OTHER LOSSES 3 Credit Hours**

Exploration of the impact of death, trauma and other losses on individuals and families across the lifespan. Consideration of gender, social and cultural context. Implications for human services professionals.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HDFS 54092 PRACTICUM IN HUMAN DEVELOPMENT AND FAMILY STUDIES 3-6 Credit Hours**

(Repeatable for credit) (Slashed with HDFS 44092) Observation and participation in child, family and human service agencies.

**Prerequisite:** Human development and family studies major; and graduate standing; and special approval.

**Schedule Type:** Lecture, Practical Experience

**Contact Hours:** 1 lecture, 14-35 other

**Grade Mode:** Standard Letter

**HDFS 61091 SEMINAR 2,3 Credit Hours**

(Repeatable for credit) Evaluation and interpretation of recent literature in human development and/or family studies. Topic selected for semester will be indicated in the schedule of classes.

**Prerequisite:** Graduate standing.

**Schedule Type:** Seminar

**Contact Hours:** 2-3 other

**Grade Mode:** Standard Letter

**HDFS 61098 RESEARCH 1-15 Credit Hours**

(Repeatable for credit) Research for master's level graduate students. Credits earned may be applied toward meeting degree requirements if school approves.

**Prerequisite:** Graduate standing.

**Schedule Type:** Research

**Contact Hours:** 1-15 other

**Grade Mode:** Standard Letter-IP

**HDFS 61198 MASTER'S PROJECT 2-6 Credit Hours**

(Repeatable for credit) (Cross-listed with NUTR 61198) Completion and successful defense of a master's project. Master's project students must register for a total of 6 hours, 2 to 6 hours in a single semester distributed over several semesters if desired.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Master's Project

**Contact Hours:** 2-6 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**HDFS 61199 THESIS I 2-6 Credit Hours**

Thesis students must register for total of 6 hours, 2 to 6 hours in a single semester distributed over several semesters if desired.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Masters Thesis

**Contact Hours:** 2-6 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**HDFS 61299 THESIS II 2 Credit Hours**

Thesis II students must continue registration each semester until all degree requirements are met.

**Prerequisite:** HDFS 61199; and graduate standing.

**Schedule Type:** Masters Thesis

**Contact Hours:** 2 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**HDFS 64023 FAMILY THEORIES AND PROCESSES 3 Credit Hours**

An examination of theories and research for understanding family dynamics and changes in families across the lifespan. Includes attention to diverse family structures, dyadic and group processes applicable to families, and social and cultural contexts.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HDFS 64024 FAMILY LIFE EDUCATION 3 Credit Hours**

Developing community acceptance, teaching aids and techniques and curriculum for family life education.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HDFS 64026 PROFESSIONAL ISSUES IN HUMAN DEVELOPMENT AND FAMILY STUDIES 2 Credit Hours**

This course covers ethical and professional issues related to the field of human development and family studies. The course will cover both conceptual ideas related to research and practice in the field as well as practical tools for professional development and successful completion of the Master's Thesis or Project.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**HDFS 64027 EARLY ADOLESCENCE 3 Credit Hours**

Examines the fundamental changes, social contexts and psychosocial processes involved in human development from ages eight through 15. Implications for working with this age group within schools and human service agencies.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

## Human Resource Management (HRM)

**HRM 34092 PRACTICUM CAREER DEVELOPMENT (ELR) 3 Credit Hours**

In-depth training and development course designed to prepare students for resume presentation, job search, interviewing, participation in the internship and career launching.

**Prerequisite:** Minimum 2.500 overall GPA; and junior standing.

**Schedule Type:** Lecture, Practical Experience

**Contact Hours:** 1 lecture, 2 other

**Grade Mode:** Standard Letter

**Attributes:** Experiential Learning Requirement

**HRM 34180 HUMAN RESOURCE MANAGEMENT 3 Credit Hours**

Focuses on the importance of the management of human resources for any organization, its employees, customers, shareholders, and the community where it is located. The topic helps students understand the important issues that derive from managing people at work and the changing environment organizations face. Students will learn the integral role human resources management plays to the success or failure of an organization. Both practical and theoretical perspectives are presented.  
**Prerequisite:** MGMT 24163 or BMRT 11009; and minimum 2.500 overall GPA.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HRM 34187 INTERNATIONAL EXPERIENCE IN HUMAN RESOURCE MANAGEMENT 3 Credit Hours**

Guided introduction to applied Human Resource Management in another culture by examining opportunities and challenges. Via select company tours, tour of historical sites and meetings with management from local companies as well as U.S. companies doing business in foreign countries, students will be exposed to the current HR functions and practices in a foreign country, such as selecting and managing a workforce, compliance with the employment laws, employee training and development, expatriation repatriation, performance management, and compensation issues.

**Prerequisite:** HRM 34180 or BMRT 31006 with a minimum C grade; and minimum 2.500 overall GPA; and sophomore standing; and special approval.

**Schedule Type:** Field Experience

**Contact Hours:** 9 other

**Grade Mode:** Standard Letter

**HRM 44091 SEMINAR IN HUMAN RESOURCE MANAGEMENT 3 Credit Hours**

(Repeatable for credit) (Slashed with MIS 54091) In-depth readings, discussion projects and presentations in a specialized area of human resource management.

**Prerequisite:** HRM 34180 or BMRT 31006; and minimum 2.500 overall GPA.

**Schedule Type:** Seminar

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HRM 44183 DEVELOPING AND TRAINING HUMAN RESOURCES IN ORGANIZATIONS 3 Credit Hours**

(Slashed with MIS 54183) Course focus is quality training design, based upon theory and empirical research. Implications for practice and current challenges in employee training and development are also highlighted.

**Prerequisite:** HRM 34180 or BMRT 31006 with a minimum C grade; and minimum 2.500 overall GPA.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HRM 44185 STAFFING HUMAN RESOURCES 3 Credit Hours**

(Slashed with MIS 54185) Staffing, development of systems to select, place, promote, and retain employees to enhance organizational effectiveness and maintain legal compliance are core HRM activities in organizations. This course will provide students with an understanding of the technical components of selection, including how to determine which applicant characteristics should be examined, what procedures should be used to gather information, and how that information should be combined to identify qualified job applicants. In addition, this course focuses on promotion and retention of employees.

**Prerequisite:** HRM 34180 or BMRT 31006 with a minimum C grade; and a minimum 2.500 overall GPA.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HRM 44195 ADVANCED TOPICS IN HUMAN RESOURCE MANAGEMENT 3 Credit Hours**

(Repeatable for a total of 6 credit hours) Advanced topics course that are offered on a yearly basis. Topics can span the full range of HR functions. This course can also have a practicum format.

**Prerequisite:** HRM 34180 or BMRT 31006; and minimum 2.500 overall GPA.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HRM 44445 GLOBAL HUMAN RESOURCE MANAGEMENT (WIC) 3 Credit Hours**

(Slashed with MIS 54445) The course examines the impact of internationalization and cross-cultural challenges on organizations, the factors involved in selecting and managing an international workforce, the evaluation of employee relations and employment law, and address issues such as employee training and development, expatriation-repatriation, performance management, and compensation issues, all from the perspective of managing an international organization.

**Prerequisite:** HRM 34180 or BMRT 31006 with a minimum C grade; and minimum 2.500 overall GPA; and student must be enrolled in the human resource management major or minor; and senior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Writing Intensive Course

**HRM 44492 BUSINESS EXPERIENCE AND INTERNSHIP IN HUMAN RESOURCE MANAGEMENT (ELR) 3 Credit Hours**

(Repeatable for credit) Learning by experience by performing activities related to the Human Resource Management profession in a cooperating organization.

**Prerequisite:** HRM 34180 or BMRT 31006 with a minimum C grade; and a minimum 2.500 overall GPA; and must be enrolled in the human resource management major or minor.

**Schedule Type:** Practical Experience

**Contact Hours:** 1 lecture, 14 other

**Grade Mode:** Standard Letter

**Attributes:** Experiential Learning Requirement

**HRM 44495 SPECIAL TOPICS IN HUMAN RESOURCE MANAGEMENT**  
**3 Credit Hours**

(Repeatable for credit) Offered on a semester basis with different human resource management topics and different faculty involved each time the course is offered.

**Prerequisite:** Minimum 2.500 overall GPA; and junior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HRM 44499 HUMAN RESOURCE BUSINESS CONSULTING AND PROJECTS (ELR) 3 Credit Hours**

This course bridges between Human Resource Management coursework and the world of HRM practice. The course will provide a variety of learning experiences to help students gain knowledge and practical experience to prepare them to embark on careers in the HRM profession. Upon completion of this course, students should have much to discuss in a job interview and a useful entry on their resumes.

**Prerequisite:** HRM 34180 or BMRT 31006 minimum C grade; and minimum 2.500 overall GPA; and student must be enrolled in the human resource management minor or major.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Experiential Learning Requirement

**HRM 44660 PERFORMANCE MANAGEMENT AND COMPENSATION SYSTEMS 3 Credit Hours**

The course provides overview of the performance management process, examines various approaches to performance management, and discusses sources of performance management information. Also considers the nature of the compensation systems and pay system mechanics, as well as methods for recognizing employee contributions through compensation.

**Prerequisite:** HRM 34180 or BMRT 31006 with a minimum C grade; and minimum 2.500 overall GPA.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HRM 44763 HUMAN RESOURCE ANALYTICS AND ERP SYSTEMS 3 Credit Hours**

The course examines the use of HR data, metrics, analytics, and ERP systems to guide human resource management decision making and support the strategic goals of the organization. The course will introduce students to the characteristics of high quality data, introduce common analysis techniques, data interpretation and visualization, and report assessment. Through lecture, readings, and problem solving exercises using enterprise resource planning systems (SAP and Oracle), students will gain the knowledge and skills necessary to assess various human resource management initiatives and formulate solutions to common human-resource-related problems. Upon completion of the course, students will understand how HR analytics and ERP systems help an organization achieve its strategic goals.

**Prerequisite:** HRM 34180 or BMRT 31006 with a minimum C grade; and minimum 2.500 overall GPA.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

## Human Services (HSRV)

**HSRV 11000 FOUNDATIONS OF HUMAN SERVICES 3 Credit Hours**

An overview of the roles, history, values, systems, policies, theories and core conceptions of the human services professions across a range of social problems including child abuse and neglect, addictions, poverty, aging, mental health and illness, prevention and corrections, etc., and society's response through the human service delivery system.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** TAG Social and Behavioral Sciences

**HSRV 11001 GROUP METHODS IN HUMAN SERVICES 3 Credit Hours**

Introduction to theory, research and application of the practice, structure and function, analysis, problem solving strategies and skills in working with small groups with respect to the cultural context, types of groups and special populations such as addiction are addressed from a systems perspective within the human services purposes, values and ethics framework.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HSRV 11002 SURVEY OF COMMUNITY RESOURCES 3 Credit Hours**

A survey of providers at the federal, regional, state and local levels, including services provided and regulations of private and public agencies.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HSRV 21000 DYNAMICS OF HELPING RELATIONSHIPS 3 Credit Hours**

Introduction to communication skills in systems of professional practice with emphasis on skill development in motivational interviewing, principles of effective communication, functions and purposes of communication, active listening, building empathy, establishing therapeutic rapport, case conceptualization and provisions of assistance.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HSRV 21001 ASSESSMENT METHODS IN HUMAN SERVICES 3 Credit Hours**

Introduction to client assessment, intervention and evaluation methods for generalist practice within a strengths based recovery model with emphasis on the biopsychosocial development across the lifespan. Understanding of mental illness, addictions, developmental disabilities and the impact of trauma, etc.; utilization of specific assessment skills and tools including: stages of change, level of care, recovery and resiliency, crisis response and de-escalation, etc.

**Prerequisite:** HSRV 11000 or HSRV 21003; or permission.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HSRV 21002 COMMUNITY SUPPORTIVE CASE MANAGEMENT AND ADVOCACY IN HUMAN SERVICES 3 Credit Hours**

Introduction to the purposes, intent and activities of a community supportive case manager: assessment, facilitation and coordination of services, linkage, referral, coordination assistance in crisis management and stabilization, outreach, education, training; intervention, support and elimination of barriers to autonomy. Develop an understanding of systems of care; and population characteristics: mental health, addiction, recovery, culture, age, and gender, etc. with emphasis on advocacy in human services practices. Recommend students take HST 21001 in preparation.

**Prerequisite:** HSRV 11000 or HSRV 21003, or permission.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HSRV 21003 SOCIAL WELFARE IN HUMAN SERVICES 3 Credit Hours**

Introduction to the history and development of social welfare including current federal and state social policy in the delivery of services; understanding of ideologies, values and ethics forming the social services foundation; financial, organizational and administrative structures influencing social services; fields of practice, populations served, mechanisms of poverty, oppression and discrimination; diversity issues in delivery of services and empowering at risk and vulnerable populations.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** TAG Social and Behavioral Sciences

**HSRV 21092 INTERNSHIP IN HUMAN SERVICES I (ELR) 3 Credit Hours**

(Repeatable for credit) Supervised field experience in a human service agency totaling equivalent of 315 hours. Joint university-agency supervision.

**Prerequisite:** Special approval.

**Schedule Type:** Practical Experience

**Contact Hours:** 21 other

**Grade Mode:** Standard Letter

**Attributes:** Experiential Learning Requirement

**HSRV 21095 SPECIAL TOPICS IN HUMAN SERVICES 1 Credit Hour**

(Repeatable for credit) Discussion of a major topic within human services.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 1 lecture

**Grade Mode:** Standard Letter

**HSRV 21192 INTERNSHIP IN HUMAN SERVICES II (ELR) 3 Credit Hours**

(Repeatable for credit) Continued supervised field experience in a human services agency totaling 315 hours equivalent. Joint university-agency supervision.

**Prerequisite:** Special approval.

**Schedule Type:** Practical Experience

**Contact Hours:** 21 other

**Grade Mode:** Standard Letter

**Attributes:** Experiential Learning Requirement

## Information Technology (IT)

**IT 11000 INTRODUCTION TO OFFICE PRODUCTIVITY APPS 3 Credit Hours**

(Equivalent to CIS 24053) Covers the basic concepts and use of computer systems, including hardware, personal productivity software, Internet usage and file management.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** TAG Business

**IT 11002 VISUAL BASIC PROGRAMMING 3 Credit Hours**

Visual Basic.NET language introducing concepts of object-oriented, event-driven program design and implementation. .

**Prerequisite:** IT None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**IT 11004 SURVEY OF INFORMATION TECHNOLOGY 3 Credit Hours**

Overview introduction to information technologies, career paths and professional certifications available.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**IT 11005 INTRODUCTION TO OPERATING SYSTEMS AND NETWORKING TECHNOLOGY 3 Credit Hours**

Survey of desktop and network operating systems essentials, including file and disk management, system tools utilization, resource sharing and introductory network concepts.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**IT 11006 INTRODUCTION TO WEB SITE TECHNOLOGY 3 Credit Hours**

Focuses on website technologies, including HTML. Students learn the history of the Internet and effective search techniques.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**IT 11009 COMPUTER ASSEMBLY AND CONFIGURATION 4 Credit Hours**

Covers disk operating system functions and features; hardware/software installation procedures; file and directories management; system configuration/optimization; backup procedures.

**Prerequisite:** CS 33211 or EMAT 26010 or IT 11005 or ENGR 10001.

**Schedule Type:** Lecture

**Contact Hours:** 4 lecture

**Grade Mode:** Standard Letter



**IT 12000 INTERMEDIATE OFFICE PRODUCTIVITY APPS 3 Credit Hours**

Covers intermediate concepts and integration of computer applications. Emphasis on software suites, specifically word processing, electronic spreadsheets, database and presentation applications.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**IT 13000 APPLIED SECURITY ESSENTIALS 3 Credit Hours**

Course covering a basic introduction to securing connected devices.

Topics include computer security, Internet security, and mobile security.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**IT 20001 C++ PROGRAMMING 3 Credit Hours**

Course using C++ introducing concepts of software development, object-oriented event-driven programming, testing and debugging, simple and complex data types language syntax and semantics.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**IT 20011 JAVA PROGRAMMING 3 Credit Hours**

Course using Java introducing concepts of software development, object-oriented event-driven programming, testing and debugging, simple and complex data types, language syntax and semantics.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**IT 20021 C# PROGRAMMING 3 Credit Hours**

Introductory concepts of C#: development environment, variables, decisions, looping, arrays, strings, methods, exception and event handling.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**IT 21002 NETWORK SETUP AND CONFIGURATION 4 Credit Hours**

Introduces networking in local area network (LAN) and wide area network (WAN) environments. Topics include network protocol, configuration, operation, setup, installation, administration, management and security.

**Pre/corequisite:** IT 11009.

**Schedule Type:** Lecture

**Contact Hours:** 4 lecture

**Grade Mode:** Standard Letter

**IT 21005 VISUAL BASIC DATABASE PROGRAMMING 4 Credit Hours**

Advanced course in the visual basic language focusing on database systems development.

**Prerequisite:** CS 13001 or EMAT 15310 or IT 11002 or CIS 24065.

**Schedule Type:** Lecture

**Contact Hours:** 4 lecture

**Grade Mode:** Standard Letter

**IT 21007 CYBER ETHICS IN INFORMATION TECHNOLOGY 3 Credit Hours**

Covers the ethics, issues and policies regarding the Internet. Course includes discussion/research on intellectual property/freedom, hacking, pornography, privacy.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**IT 21008 COMPUTER METHODS IN SCIENCE AND ENGINEERING 3 Credit Hours**

Use of computers in problems related to science and engineering. Course includes introduction to elements of a high-level scientific language.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**IT 21009 SEMINAR IN INFORMATION TECHNOLOGY 3 Credit Hours**

Capstone course encompassing critical reading, writing and discussion applying the current theories of computer technologies to on-the-job experiences. Students develop a portfolio to confirm their level of knowledge.

**Prerequisite:** IT 11005 and IT 11006 and IT 11009 and IT 21002 and IT 21010.

**Schedule Type:** Seminar

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**IT 21010 WORKGROUP PRODUCTIVITY SOFTWARE 3 Credit Hours**

Research project-oriented course emphasizing workgroup methodologies for group project management, problem definition, data retrieval and analysis, conclusions and recommendations.

**Prerequisite:** IT 12000; or OTEC 16639 and OTEC 26611.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**IT 21011 TECHNIQUES OF MULTIMEDIA WEB DESIGN 3 Credit Hours**

Focuses on developing and managing effective web sites using multimedia elements, including sound and video.

**Prerequisite:** IT 11006 or EMAT 13210.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**IT 21036 WEB SCRIPTING I 3 Credit Hours**

Course focuses on client-side scripting needed to create interactive and dynamic websites. The use of scripting in context with various technologies is explored.

**Prerequisite:** CS 13001 and CS 27101; or EMAT 15310; or IT 11002 and IT 11006; or CIS 24065; or ENGR 26301.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**IT 21092 COMPUTER PRACTICUM (ELR) 1-3 Credit Hours**  
(Repeatable for credit) Supervised work experience in information technology environment; 45 hours supervised work experience per credit hour.

**Prerequisite:** Sophomore standing.

**Schedule Type:** Practical Experience

**Contact Hours:** 3-9 other

**Grade Mode:** Standard Letter

**Attributes:** Experiential Learning Requirement

**IT 21095 SPECIAL TOPICS IN INFORMATION TECHNOLOGY 1-4 Credit Hours**

(Repeatable for credit) Topics announced when scheduled.

**Prerequisite:** Special approval.

**Schedule Type:** Lecture

**Contact Hours:** 1-4 lecture

**Grade Mode:** Standard Letter

**IT 21096 INDIVIDUAL INVESTIGATION IN INFORMATION TECHNOLOGY 1-4 Credit Hours**

(Repeatable for credit) Individual study in computer field.

**Prerequisite:** Special approval.

**Schedule Type:** Individual Investigation

**Contact Hours:** 7-28 other

**Grade Mode:** Standard Letter

**IT 21100 LOCAL AREA NETWORK TROUBLESHOOTING 3 Credit Hours**

Covers local area network troubleshooting techniques. Topics include identifying the scope of the problem, systematic troubleshooting approaches, problem resolution and ongoing maintenance.

**Prerequisite:** CS 33211 or EMAT 26010 or IT 21002 or; ENGR 23010 and ENGR 26301.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**IT 21110 INTRODUCTION TO ROUTING AND SWITCHING 3 Credit Hours**

Introduces internetworking concepts. Topics include networking standards, cabling, Transmission Control Protocol/Internet Protocol (TCP/IP), router configuration, local area network (LAN) and wide area network (WAN) segments and other related topics.

**Prerequisite:** CS 33211 or EMAT 26010 or IT 21002; or TECH 23010 and TECH 26301.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**IT 21200 ETHICAL HACKING 3 Credit Hours**

Tools and techniques ethical hackers and security testers use to discover vulnerabilities and solutions to protect computer networks.

**Prerequisite:** CS 33211 or EMAT 26010 or IT 21002; or ENGR 23010 and ENGR 26301.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**IT 21300 INTRODUCTION TO SECURITY INCIDENT MANAGEMENT 3 Credit Hours**

Course covering an introduction to defending against cyber attackers.

**Prerequisite:** Sophomore standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**IT 22000 SURVEY OF IT CYBERSECURITY 3 Credit Hours**

Course introduces students to cybersecurity in information technology. Topics include authentication, encryption, enterprise computing, the role of users in security, data management and end-to-end security in networking.

**Prerequisite:** CS 33211 or EMAT 26010 or IT 21002; or ENGR 23010 and ENGR 26301.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**IT 23000 INTRODUCTION TO OPERATING SYSTEM SECURITY 3 Credit Hours**

Course introducing operating system security configurations, considerations, and best practices.

**Prerequisite:** CS 33211 or EMAT 26010 or IT 21002; or ENGR 23010 and ENGR 26301.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**IT 24000 DEVELOPING AND IMPLEMENTING SECURITY POLICIES 3 Credit Hours**

This course covers governance, legal considerations, and regulations related to information security policy development and implementation.

**Prerequisite:** CS 33211 or EMAT 26010 or IT 21002; or ENGR 23010 and ENGR 26301.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**IT 31002 HEALTH INFORMATION TECHNOLOGY SUPPORT 3 Credit Hours**

Course covers skills and knowledge required to implement and support healthcare IT (HIT) systems including regulatory and compliance issues; organizational behavior, IT and medical business operations; best practices and security.

**Prerequisite:** Junior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**IT 32002 LINUX NETWORKING 4 Credit Hours**

Course covering network administration topics with the Linux operating system. Topics include distributions, storage solutions, network services and current security practices.

**Prerequisite:** CS 33211 or EMAT 26010 or IT 21002; or ENGR 23010 and ENGR 26301.

**Schedule Type:** Lecture

**Contact Hours:** 4 lecture

**Grade Mode:** Standard Letter

**IT 36095 SPECIAL TOPICS IN INFORMATION TECHNOLOGY 1-3 Credit Hours**

(Repeatable for credit) Special topics from all areas of information technology.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 1-3 lecture

**Grade Mode:** Standard Letter

**IT 36301 ADVANCED C++ PROGRAMMING 4 Credit Hours**

Course using C++ classes and data abstraction, stream IO, inheritance, standard template library, Microsoft Foundation Classes, system programming concepts using Unified Modeling Language.

**Prerequisite:** IT 20001.

**Schedule Type:** Lecture

**Contact Hours:** 4 lecture

**Grade Mode:** Standard Letter

**IT 36302 ADVANCED C# PROGRAMMING 3 Credit Hours**

Advanced concepts of C# including classes and objects, inheritance, polymorphism, arrays, exception handling, files and streams and Extensible Application Markup Language (XAML).

**Prerequisite:** IT 20021.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**IT 36303 DIGITAL IMAGE MANIPULATION 3 Credit Hours**

Course covers various concepts involved in the creation and manipulation of digital images.

**Prerequisite:** IT 11006 or EMAT 13210.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**IT 36308 ERGONOMICS IN COMPUTER SYSTEMS 3 Credit Hours**

Introduction to ergonomics, usability design and assessment methods for the development of computer hardware, software and systems.

**Prerequisite:** Junior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**IT 36309 PROGRAMMING MOBILE APPLICATIONS 3 Credit Hours**

Introduces the unique program design considerations required by mobile devices. The course focuses on creating programs that can be deployed on different devices.

**Prerequisite:** CS 13001 or EMAT 15310 or IT 11002 or IT 20001 or IT 20011 or IT 20021 or CIS 24065.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**IT 36310 MULTIMEDIA DEVELOPMENT TOOLS 3 Credit Hours**

Course focuses on advanced technologies for Web development, including DHTML, plug-ins, etc. Students learn to create more interactive and dynamic websites.

**Prerequisite:** IT 21011 or EMAT 13210.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**IT 36311 ADVANCED JAVA PROGRAMMING 4 Credit Hours**

Course using Java abstract data types and objects, object-oriented, event-driven design, file organization and access, and systems programming concepts.

**Prerequisite:** IT 20011.

**Schedule Type:** Lecture

**Contact Hours:** 4 lecture

**Grade Mode:** Standard Letter

**IT 36314 SEMINAR IN EMERGING COMPUTER AND INFORMATION TECHNOLOGIES 3 Credit Hours**

Survey of new and emerging technologies in computer and information technology.

**Prerequisite:** Junior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**IT 36315 CERTIFICATION PREPARATION IN INFORMATION TECHNOLOGY 3 Credit Hours**

(Repeatable for a maximum of 6 credit hours) Certification preparation course to help students prepare for professional certification attempts in information technology. Certification is not guaranteed and certification fees may apply.

**Prerequisite:** Special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**IT 36318 SURVEY OF INFORMATION SECURITY, INTERNET FRAUD AND COMPUTER FORENSICS (WIC) 3 Credit Hours**

Course provides a non-technical introduction to contemporary issues in information security, Internet fraud and computer forensics.

**Prerequisite:** ENG 21011 or HONR 10297; and junior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Writing Intensive Course

**IT 36320 COMPUTER FORENSICS 3 Credit Hours**

Hands-on skills in incident response, forensic preparation and data recovery and analysis.

**Prerequisite:** CS 33211 or EMAT 26010 or IT 21002; or ENGR 23010 and ENGR 26301.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**IT 36321 NETWORK FORENSICS 3 Credit Hours**

Emphasizing hands-on skills in live incident response, the proper use of network forensic tools, network monitoring, live data capture, evidence analysis, data integrity and other related topics.

**Prerequisite:** CS 33211 or EMAT 26010 or IT 21002; or ENGR 23010 and ENGR 26301.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**IT 36322 SOCIAL MEDIA AND MOBILE DEVICE FORENSICS 3 Credit Hours**

Course covers data collection and analysis techniques for social media and mobile devices.

**Prerequisite:** Junior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**IT 36330 LOCAL AREA NETWORK SECURITY FUNDAMENTALS 3****Credit Hours**

Examines the primary issues involved in securing resources in a local area network (LAN), including threat assessment, countermeasures, best practices, security protocols, cryptography and management-related issues.

**Prerequisite:** CS 33211 or EMAT 26010 or IT 21002; or ENGR 23010 and ENGR 26301.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**IT 36331 ADVANCED ROUTING AND SWITCHING 3 Credit Hours**

Reinforcing Internetworking concepts. Topics include network standards, LAN switching, VLANs, network designs, routing protocols and configuration, LAN and WAN segments, and other related topics.

**Prerequisite:** IT 21110.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**IT 36336 WEB SCRIPTING II 3 Credit Hours**

Focuses on server-side scripting needed to create interactive and dynamic websites.

**Prerequisite:** IT 21036.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**IT 36340 HELP DESK SUPPORT 3 Credit Hours**

Examination of help desks that exist, importance within organizations, the roles and skills required, and methods and technologies commonly employed.

**Prerequisite:** IT 11009 or ENGR 23010.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**IT 36350 PROGRAMMING OFFICE PRODUCTIVITY APPLICATIONS 3 Credit Hours**

Introduces the use of Visual Basic for Applications (VBA) as a tool to create customized programs that automate repetitive and/or complex tasks performed using office suite applications.

**Prerequisite:** IT 11002 and IT 21010.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**IT 36355 COMMAND LINE UTILITIES 3 Credit Hours**

Course prepares students to perform effectively in Windows, Linux and various server command line environments. Topics include command syntax, batch files, script files and internal and external commands.

**Prerequisite:** CS 33211 or EMAT 15310 or EMAT 26010 or IT 21002; or ENGR 23010 and ENGR 26301.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**IT 36392 INTERNSHIP FOR INFORMATION TECHNOLOGY STUDENTS (ELR) 1-3 Credit Hours**

(Repeatable for a maximum of 6 credit hours) An arranged work experience for students in the information technology field. Students complete 45 hours of internship per credit.

**Prerequisite:** Junior standing.

**Schedule Type:** Practical Experience

**Contact Hours:** 3-9 other

**Grade Mode:** Standard Letter

**Attributes:** Experiential Learning Requirement

**IT 40000 CYBERSECURITY 3 Credit Hours**

Builds on a background in networking and focuses on cybersecurity best practices, standard models and regulatory requirements.

**Prerequisite:** CS 33211 or EMAT 26010 or IT 21002; or ENGR 23010 and ENGR 26301.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**IT 41002 CLOUD TECHNOLOGY 3 Credit Hours**

Concepts of cloud computing, including storage; services; technology; and management.

**Prerequisite:** CS 33211 or EMAT 26010 or IT 21002; or ENGR 23010 and ENGR 26301.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**IT 41010 MOBILE APPLICATIONS FOR INFORMATION TECHNOLOGY 3 Credit Hours**

Course covers enterprise mobility technical concepts, strategies, and solutions across various domains and industries. Includes topics such as organizational issues, IT and business operations; and best practices and security.

**Prerequisite:** Junior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**IT 42000 SOCIAL MEDIA SECURITY 3 Credit Hours**

Personal and corporate social media presence, security risks, intellectual property and ethical issues.

**Prerequisite:** Junior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**IT 42002 WIRELESS AND MOBILE DEVICE SECURITY 3 Credit Hours**

Course covers wireless and mobile device security. Topics include risk assessments, threats, vulnerabilities and current security practices.

**Prerequisite:** CS 33211 or EMAT 26010 or IT 21002; or ENGR 23010 and ENGR 26301.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**IT 43000 HEALTHCARE INFORMATION SYSTEMS 3 Credit Hours**

Course focuses on the roles and responsibilities of the health information technology professional including the technology, legal and ethical responsibilities and complex systems and environment.

**Prerequisite:** Junior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**IT 46300 ADVANCED COMPUTER ASSEMBLY AND CONFIGURATION 3 Credit Hours**

Focus is on advanced system components, streamlined operating system installation procedures, and current technology in local area network (LAN) connectivity.

**Prerequisite:** IT 11009; and junior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**IT 46303 DIGITAL VIDEO EDITING 3 Credit Hours**

Utilizes digital imaging technologies to produce videos. Includes timelines; filming, importing/exporting video; audio; effects, transitions and captions.

**Prerequisite:** IT 36303.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**IT 46308 ADVANCED VISUAL BASIC PROGRAMMING 3 Credit Hours**

Advanced concepts of visual basic, including classes and objects, inheritance, polymorphism, arrays, exception handling, files and streams and dynamic-link library (DLL).

**Prerequisite:** CS 13001 or EMAT 15310 or IT 11002 or CIS 24065.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**IT 46309 ASP.NET WEB PROGRAMMING 3 Credit Hours**

Using Visual Studio and the ASP.NET platform to develop secure, data-aware web applications. Topics covered include HTML and CSS, testing and debugging, master pages, state management, security and authentication, SQL and object data sources.

**Prerequisite:** IT 11002 or IT 20021 or CS 13001 or EMAT 15310 or CIS 24065.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**IT 46310 TECHNOLOGY OF OPERATING SYSTEMS 3 Credit Hours**

Course covers installation, configuration, tuning and communication among state-of-the-art desktop operating systems, using available system tools, utilities and files.

**Prerequisite:** CS 33211 or EMAT 26010 or IT 21002; or ENGR 23010 and ENGR 26301.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**IT 46311 TECHNOLOGY OF NETWORKING 3 Credit Hours**

Advanced topics of enterprise network management, including DNS, IP addressing, routing basics, subnet masking, firewalls, storage redundancy techniques, and general tuning, optimizing, troubleshooting, recovery strategies.

**Prerequisite:** CS 33211 or EMAT 26010 or IT 21002; or ENGR 23010 and ENGR 26301.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**IT 46312 SCRIPTING FOR NETWORK ADMINISTRATORS 3 Credit Hours**

Covers scripting technologies to configure and manage resources and services of local area network (LAN) servers and workstations.

**Prerequisite:** IT 21002 and IT 21036.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**IT 46313 VIRTUAL MACHINE CONFIGURATION AND ADMINISTRATION 3 Credit Hours**

Focus on configuring and administering virtual machine software.

**Prerequisite:** CS 33211 or EMAT 26010 or IT 21002; or ENGR 23010 and ENGR 26301.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**IT 46314 ADVANCED SERVER CONFIGURATION 3 Credit Hours**

Course focus is on the core service roles provided by application services, including configuration, maintenance and security.

**Prerequisite:** CS 33211 or EMAT 26010 or IT 21002; or ENGR 23010 and ENGR 26301.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**IT 46315 SQL WITH ORACLE 3 Credit Hours**

Focus is on Structured Query Language. (SQL) and relational databases using Oracle, a comprehensive and fully integrated stack of cloud applications and platform services.

**Prerequisite:** CS 13001 or EMAT 15310 or IT 21005 or CIS 24065.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**IT 46320 CLOUD FORENSICS 3 Credit Hours**

Concepts of cloud forensics, including legal consideration and software tools involved with discovery in the cloud.

**Prerequisite:** CS 33211 or EMAT 26010 or IT 21002; or ENGR 23010 and ENGR 26301.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**IT 46321 WEB DATABASE INTEGRATION 3 Credit Hours**

Course focus is on integrating data sources into websites. Current topics include advanced concepts in server-side processing principles, web forms, database programming objects and Structured Query Language (SQL).

**Prerequisite:** IT 21036.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**IT 46331 LOCAL AREA NETWORK SECURITY AND FIREWALLS 3 Credit Hours**

Course examines the primary issues involved in defining and configuring a local area network (LAN) defense perimeter, including LAN security analysis, implementing firewalls and intrusion detection systems.

**Prerequisite:** IT 36330.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter



**IT 46340 DATA DESIGN AND IMPLEMENTATION 3 Credit Hours**

Explores the role and design of databases in organizations, with emphasis on the technologies used in their implementation. Emphasis on Structured Query Language (SQL).

**Prerequisite:** IT 21005 and IT 21010.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**IT 46350 DATABASE ADMINISTRATION AND REPORTING TOOLS 3 Credit Hours**

Examines the role of database administrator, focusing on maintaining, validating and securing data along with use of report writing tools, techniques and best practices.

**Prerequisite:** IT 21005 and IT 21010.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

## Insurance Studies (INS)

**INS 29000 INTRODUCTION TO INSURANCE AND RISK 3 Credit Hours**

Introduction into the fields of insurance and risk management including, property and casualty, life, health, auto and other types of insurances. Personal and commercial risks are identified and quantified for potential loss.

**Prerequisite:** ACTT 11000 or BMRT 11000.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**INS 39000 INSURANCE LAW, FINANCE AND RISK MANAGEMENT 3 Credit Hours**

Next-level insurance and risk management topics including ERM, insurance law and financial statement analysis. Other topics include impact of laws and regulation on insurers and additional elements of life insurance, annuities, IRAs, auto insurance, crime insurance and surety bonds.

**Prerequisite:** INS 29000.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**INS 39001 INSURANCE OPERATIONS (WIC) 3 Credit Hours**

A detailed review of the strategic and tactical operations of the insurance industry. Explores the Function and role of insurers, claims management, rate making, financial structures and underwriting.

**Prerequisite:** INS 39000 with a minimum grade of C grade.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Writing Intensive Course

**INS 49000 LIFE AND HEALTH INSURANCE 3 Credit Hours**

A detailed review of life and health insurance and their impact on individuals and society. The objective is a familiarization with various life and health products and how these products protect people and their families against financial losses caused by death, accident, sickness or disability.

**Prerequisite:** INS 39001 with a minimum C grade.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**INS 49001 PERSONAL LINES INSURANCE 3 Credit Hours**

Study of property and casualty personal lines of insurance including automobile, homeowner, dwelling and other residential policies, 'toys' such as motor homes, motorcycles and boats, and high-risk plans for earthquake, flood and windstorm.

**Prerequisite:** INS 39001 with a minimum C grade.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**INS 49002 COMMERCIAL INSURANCE 3 Credit Hours**

Advanced concepts in commercial lines insurance including commercial property, commercial liability, business income, commercial crime and equipment breakdown insurance, commercial auto, workers compensation, business owners and specialty coverages.

**Prerequisite:** INS 39001 with a C grade.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**INS 49092 INSURANCE PRACTICUM GENERAL (ELR) 3 Credit Hours**

(Repeatable for credit) Course requires an on-sight internship and/or a project with an insurance related organization approved by the Instructor.

**Prerequisite:** INS 39000 and 39001; and special approval.

**Schedule Type:** Practical Experience

**Contact Hours:** 21 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**Attributes:** Experiential Learning Requirement

## Integrated Health Studies (IHS)

**IHS 10000 CAREERS IN HEALTH SCIENCES AND HUMAN SERVICES 3 Credit Hours**

This course presents the diverse career options in the fields of health sciences and human services. Academic preparation and credentialing for professions will be included.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**IHS 40091 SEMINAR FOR PRACTICUM IN INTEGRATED HEALTH STUDIES 2 Credit Hours**

(Repeatable for credit) Seminar focuses on applying concepts from previous educational experiences to the practicum work experience.

**Prerequisite:** IHS 10000.

**Corequisite:** IHS 44092.

**Schedule Type:** Seminar

**Contact Hours:** 2 other

**Grade Mode:** Standard Letter

**IHS 44010 RESEARCH DESIGN AND STATISTICAL METHODS IN THE HEALTH PROFESSIONS 3 Credit Hours**

Fundamental concepts and procedures for systematic collection, analysis and interpretation of qualitative and quantitative data in health related fields includes group and single-subject designs and use of parametric and nonparametric statistics.

**Prerequisite:** PSYC 21621.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**IHS 44091 PROFESSIONAL SEMINAR IN INTEGRATED HEALTH STUDIES (WIC) 3 Credit Hours**

(Repeatable for credit) This course presents and integrates the role of scientists, practitioners and administrators in the health care and human service professions as they attempt to meet the needs of the individual in diverse environments. Current issues will be addressed. 400 hours observation/work experience in health/human service-related fields required prior to registration for this course.

**Prerequisite:** Senior standing; and special approval.

**Schedule Type:** Seminar

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**Attributes:** Writing Intensive Course

**IHS 44092 PRACTICUM IN INTEGRATED HEALTH STUDIES (ELR) 3-10 Credit Hours**

(Repeatable for credit) Practicum focuses on providing supervised practical experience in a health science, health care and human services organization which allows students to apply theoretical knowledge and skills learned in their coursework.

**Prerequisite:** Integrated health studies majors; and senior standing; and special approval.

**Corequisite:** IHS 44091.

**Schedule Type:** Practical Experience

**Contact Hours:** 9-30 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**Attributes:** Experiential Learning Requirement

**IHS 44095 SPECIAL TOPICS IN INTEGRATED HEALTH STUDIES 1-3 Credit Hours**

(Repeatable for credit) Selected topics in integrated health dependent upon interest.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 1-3 lecture

**Grade Mode:** Standard Letter

**IHS 44096 INDIVIDUAL INVESTIGATION IN INTEGRATED HEALTH 1-3 Credit Hours**

(Repeatable for credit) Independent study completed under the supervision of a faculty member. Written approval of supervising faculty member and school director required prior to registration.

**Prerequisite:** Special approval.

**Schedule Type:** Individual Investigation

**Contact Hours:** 3-9 other

**Grade Mode:** Standard Letter-IP

## Integrative Studies (IGST)

**IGST 40099 SENIOR PROJECT (ELR) (WIC) 1-3 Credit Hours**

(Repeatable twice for credit) Senior Project is a thesis or independent study done under the supervision of a faculty advisor. Students need written approval of faculty advisor, faculty member's unit, or director of the Center for Comparative and Integrative Programs in order to enroll in this course.

**Prerequisite:** Senior standing in a multidisciplinary program in the center for comparative and integrative programs; and special approval.

**Schedule Type:** Senior Project/Honors Thesis

**Contact Hours:** 1-3 other

**Grade Mode:** Standard Letter-IP

**Attributes:** Experiential Learning Requirement, Writing Intensive Course

**IGST 40192 INTERNSHIP IN INTEGRATIVE STUDIES (ELR) 3-6 Credit Hours**

(Repeatable for credit) Internship.

**Prerequisite:** Special approval from the director of the center for comparative and integrative programs.

**Schedule Type:** Practical Experience

**Contact Hours:** 9-18 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**Attributes:** Experiential Learning Requirement

## Interior Design (ID)

**ID 14011 INTRODUCTION TO INTERIOR DESIGN 1 Credit Hour**

Introduction to a broad range of interior design issues including environmental, ecological, aesthetic, social, global, spatial, ethical and technical, and addresses the needs of the human being related to interior design practice. Students acquire knowledge and understanding of significant aspects in interior design and diverse options within the profession, which helps them to identify their career paths in interior design.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 1 lecture

**Grade Mode:** Standard Letter

**ID 14012 DESIGN AND HUMAN BEHAVIOR 3 Credit Hours**

Introduces the concepts of human factors, the way in which humans relate to the physical environment within cultural milieus, and investigates applications of these factors in the design of interiors with consideration of specialized populations.

**Prerequisite:** ID 14011 with a minimum C grade.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ID 14501 STUDIO PROBLEMS IN INTERIOR DESIGN I 4 Credit Hours**

Studio problems in interior design is a course for the beginning student whose interest is in interior space design.

**Prerequisite:** None.

**Schedule Type:** Lecture, Studio

**Contact Hours:** 2 lecture, 2 other

**Grade Mode:** Standard Letter

**ID 14512 INTERIOR DESIGN GRAPHICS I 3 Credit Hours**

Studio based course introducing concepts of architectural drawing and sketching techniques including plan, elevation, section and perspective.

**Prerequisite:** Interior design major.

**Schedule Type:** Studio

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**ID 24001 INTERIOR DESIGN STUDIO I-SPACE PLANNING AND HUMAN FACTORS 3 Credit Hours**

Focuses on space planning and the application of human factors to interior design solutions. Based on knowledge received in ID 14012 Design and Human Behavior, the following areas are incorporated into the studio projects: Americans with Disabilities Act; data gathering; space analysis and synthesis.

**Prerequisite:** ID 14012 with a minimum C grade.

**Schedule Type:** Studio

**Contact Hours:** 6 other

**Grade Mode:** Standard Letter

**ID 24002 INTERIOR DESIGN STUDIO II-DETAILING AND FABRICATION**  
**3 Credit Hours**

Focus is the understanding of detailing and fabrication in interior design that leads students to have a balanced ability between the creative and the technical abilities in design projects. Studies of architectural and interior design detailing, custom cabinetry, casework, joinery, millwork, fabrication, and FF&E are blended into each of the projects to instill a proficiency in construction execution. Usage of a 3D printer and laser cutter is introduced along with design projects.

**Prerequisite:** ID 24001 with a minimum C grade.

**Schedule Type:** Studio

**Contact Hours:** 6 other

**Grade Mode:** Standard Letter

**ID 24011 METHODS AND MATERIALS I: BUILDING SYSTEMS**  
**3 Credit Hours**

Introduction to the principles of building construction and systems. Covers topics related to structural systems in buildings which include: floor, wall and roof systems; environmental comfort and sustainability; safety and security; HVAC; electrical; building control; and conveying systems, that influence and interact with interior design. Designed to advance the student to a higher level of understanding and competence in building technology for interior design.

**Prerequisite:** ID 14012 with a minimum C grade.

**Corequisite:** ID 24001.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ID 24012 CODES AND STANDARDS FOR INTERIOR DESIGN**  
**3 Credit Hours**

Presents codes, standards and regulations that pertain to the materials and finishes of building interiors, their proper methods of application, installation and maintenance.

**Prerequisite:** ID 24001 with a minimum C grade.

**Corequisite:** ID 24002.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ID 24013 HISTORY OF INTERIORS I-ANCIENT TO 15TH CENTURY**  
**3 Credit Hours**

Provides a thorough background of the major design periods and traditions of global civilizations from ancient times to the 15th century including the design of furnishings, architecture, interiors, textiles, and the decorative and fine arts. The influences of culture, geography, technology, religion and politics on design are investigated.

**Prerequisite:** ID 24001 with a minimum C grade.

**Corequisite:** ID 24002.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ID 24021 INTEGRATED DIGITAL APPLICATIONS I**  
**3 Credit Hours**

Prepares students for an ongoing exploration and integration of architectural software to assist with design problems within the interior design practice. Course work covers basic fundamentals of popular architectural programs and enables students to continuously build upon acquired knowledge and skills.

**Prerequisite:** AED 10102 with a minimum C grade.

**Corequisite:** ID 24001.

**Schedule Type:** Laboratory

**Contact Hours:** 6 lab

**Grade Mode:** Standard Letter

**ID 24022 3D MODELING AND RENDERING**  
**2 Credit Hours**

Introduces fundamental concepts, principles and practices of 3D digital modeling and rendering techniques applicable to design practice. Thorough instruction is given in the production of geometric surfaces and forms using surface and solid modeling tools, texturing, and lighting. Tutorial-based with supporting demonstrations and lectures on the various commands and approaches to interior design and architectural modeling and rendering.

**Prerequisite:** ID 24001 with a minimum C grade.

**Corequisite:** ID 24002.

**Schedule Type:** Laboratory

**Contact Hours:** 4 lab

**Grade Mode:** Standard Letter

**ID 24023 FURNITURE DESIGN I-WOOD**  
**3 Credit Hours**

Provides experience in design through the fundamentals of hand and machine processes in wood furniture design and fabrication. Projects are designed, planned and constructed by the student according to curricular needs and interests. Students must be admitted to the second year of the interior design program or have approval.

**Prerequisite:** Interior design major; and special approval.

**Pre/corequisite:** ID 24001.

**Schedule Type:** Laboratory, Lecture

**Contact Hours:** 1 lecture, 5 lab

**Grade Mode:** Standard Letter

**ID 24502 STUDIO PROBLEMS IN INTERIOR DESIGN II**  
**4 Credit Hours**

Special problems dealing with design of residential and related spaces, traffic flow, placement of furnishings, emphasis on color and textural experience and lighting of space. Practical, integrated approach.

**Prerequisite:** ID 14501; and interior design major.

**Schedule Type:** Lecture, Studio

**Contact Hours:** 2 lecture, 2 other

**Grade Mode:** Standard Letter

**ID 24510 TEXTILES IN THE BUILT ENVIRONMENT**  
**2 Credit Hours**

A concise background in textile science is established with a hands-on approach to the evaluation, selection and application of textiles by interior design professionals and architects.

**Prerequisite:** Interior design major.

**Corequisite:** ID 34503.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**ID 24522 INTERIOR DESIGN GRAPHICS II**  
**3 Credit Hours**

Studio based course continuation of ID 14512. Exploration of color, media and graphic representation of interior design materials and environments.

**Prerequisite:** ID 14501 and ID 14512 and ID 24502.

**Schedule Type:** Studio

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**ID 34001 INTERIOR DESIGN STUDIO III-LARGE SCALE PLANNING AND DOCUMENTATION**  
**4 Credit Hours**

Introduction to large-scale commercial space design through studio projects and lectures with an emphasis on space planning, office systems furniture planning, and development of workstation prototype development.

**Prerequisite:** ID 24002 with a minimum C grade.

**Schedule Type:** Studio

**Contact Hours:** 8 other

**Grade Mode:** Standard Letter

**ID 34002 INTERIOR DESIGN STUDIO IV-GLOBAL AND HISTORICAL CONTEXT 4 Credit Hours**

Focus is on projects involving the historical design traditions of the United States and various global cultures. Historical approaches to interiors include: preservation; restoration; recreation of historic interiors; and the reuse of historic structures for new purposes. The use of metric dimensioning is a component of one project.

**Prerequisite:** ID 34001 with a minimum C grade.

**Corequisite:** ID 44014.

**Schedule Type:** Studio

**Contact Hours:** 8 other

**Grade Mode:** Standard Letter

**ID 34010 DESIGN THEORY AND AESTHETICS 2 Credit Hours**

This survey course discusses theories related to interior design and other design disciplines. Topics include environmental aesthetics, visual perception, psychology of design, and other multidisciplinary theories and their relationship to humans in places and time.

**Prerequisite:** Interior design major; and sophomore standing.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**ID 34011 LIGHTING FOR INTERIOR SPACES 3 Credit Hours**

Lighting for Interior Spaces is structured to provide the interior design student with the knowledge required to select, design and install the proper lighting in the interior environment. Builds from elementary information to the complex and current technology in the industry.

**Prerequisite:** ID 24002 with a minimum C grade.

**Corequisite:** ID 34001.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ID 34012 METHODS AND MATERIALS II-INTERIOR MATERIALS 3 Credit Hours**

Explores the methods and materials utilized in the design and construction of the sustainable interior environment. Presents the standards and requirements that pertain to finishes and materials; manufacture and composition of various interior materials and finishes; and proper methods of application and installation of selected materials.

**Prerequisite:** ID 24002 with a minimum C grade.

**Corequisite:** ID 34001.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ID 34013 INTERIOR DESIGN BUSINESS AND PROFESSIONAL PRACTICE 3 Credit Hours**

Undertakes a study of business and professional practices of interior designers. Topics to be covered include: opportunities within the design profession; types of business formations; legal and ethical responsibilities; business operations; and project management. Students develop a business plan; write resumes and cover letters; and develop a design services proposal.

**Prerequisite:** ID 24002 with a minimum C grade.

**Corequisite:** ID 34001.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ID 34021 LIGHTING FOR INTERIOR SPACES LABORATORY 1 Credit Hour**

Lighting for Interior Spaces Lab is a co-requisite to ID 34011 Lighting for Interior Spaces lecture. Structured for hands-on experience with calculating, specifying and testing different types of light and their application.

**Prerequisite:** ID 24002 with a minimum C grade.

**Corequisite:** ID 34011.

**Schedule Type:** Laboratory

**Contact Hours:** 2 lab

**Grade Mode:** Standard Letter

**ID 34022 METHODS AND MATERIALS II-INTERIOR MATERIALS LABORATORY 1 Credit Hour**

Provides hands-on experience in the application of selected materials for the design and construction of the sustainable interior environment. Information presented in ID 34012 Methods and Materials II - Interior Materials are applied to design scenarios.

**Prerequisite:** ID 24002 with a minimum C grade.

**Corequisite:** ID 34012.

**Schedule Type:** Laboratory

**Contact Hours:** 1 lab

**Grade Mode:** Standard Letter

**ID 34023 PERSONAL BRANDING AND IMAGE MAKING 3 Credit Hours**

Designed to provide the student with an understanding of 1) branding as a mechanism for personal and group identity; 2) the job market, versatility of the profession, and industry expectations; 3) a developed knowledge of portfolio layout, cover letter and resume writing; 4) increased sense of who they are as a designer and their future; and 5) the ability to market themselves and their work.

**Prerequisite:** ID 24002 with a minimum C grade.

**Corequisite:** ID 34001.

**Schedule Type:** Lecture

**Contact Hours:** 3 lab

**Grade Mode:** Standard Letter

**ID 34503 STUDIO PROBLEMS IN INTERIOR DESIGN III 4 Credit Hours**

Special problems concerning design of small to moderate size commercial interior space.

**Prerequisite:** ID 24502.

**Schedule Type:** Lecture, Studio

**Contact Hours:** 2 lecture, 2 other

**Grade Mode:** Standard Letter

**ID 34504 STUDIO PROBLEMS IN INTERIOR DESIGN IV 4 Credit Hours**

Introduction to large scale planning.

**Prerequisite:** ARCH 10101 and ID 34503.

**Pre/corequisite:** PHY 13001.

**Schedule Type:** Lecture, Studio

**Contact Hours:** 2 lecture, 2 other

**Grade Mode:** Standard Letter

**ID 34515 COMPUTER AIDED DESIGN FOR INTERIOR DESIGNERS 3 Credit Hours**

Introduction to application of computer drawing and drafting techniques used in interior design. Study of two dimensional and three dimensional techniques as well as symbol libraries.

**Prerequisite:** Interior design major.

**Corequisite:** ID 34503.

**Schedule Type:** Laboratory

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ID 34522 METHODS AND MATERIALS FOR INTERIOR DESIGN 3 Credit Hours**

Information regarding the manufacture, construction and application of materials used in interior design. Proper methods and installation procedures of both surface materials and furnishings required in the profession are explored.

**Prerequisite:** Interior design major.

**Corequisite:** ID 24502.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ID 41093 VARIABLE TITLE WORKSHOP IN INTERIOR DESIGN 1-4 Credit Hours**

(Repeatable for credit) Workshops dealing with variable topics related to the interior design profession. Learning experiences provided in a broad spectrum of specialties.

**Prerequisite:** Interior design major.

**Schedule Type:** Workshop

**Contact Hours:** 1-4 other

**Grade Mode:** Satisfactory/Unsatisfactory

**ID 41095 SPECIAL TOPICS IN INTERIOR DESIGN 1-4 Credit Hours**

(Repeatable for credit) Discussion of a major topic or issue within the profession of interior design. Repeat registration permitted.

**Prerequisite:** Interior design major.

**Schedule Type:** Lecture

**Contact Hours:** 1-4 lecture

**Grade Mode:** Standard Letter

**ID 41096 INDIVIDUAL INVESTIGATION IN INTERIOR DESIGN 1-3 Credit Hours**

(Repeatable for credit) Independent study of interior design and related topics under the guidance of a faculty member.

**Prerequisite:** Interior design major.

**Schedule Type:** Individual Investigation

**Contact Hours:** 1-3 other

**Grade Mode:** Standard Letter-IP

**ID 44001 INTERIOR DESIGN STUDIO V-SPECIALIZED FOCUS AND POPULATIONS 5 Credit Hours**

Structured to allow for a specialized focus on design problems that can occur based on current trends or issues that affect the built environment for varying populations. Environmental conditions and current and on-going specific design issues in the interior environment are utilized as problems for the course.

**Prerequisite:** ID 34002 with a minimum C grade.

**Schedule Type:** Studio

**Contact Hours:** 10 other

**Grade Mode:** Standard Letter

**ID 44002 INTERIOR DESIGN STUDIO VI-COMMUNITY ENGAGEMENT 5 Credit Hours**

Community engagement refers to the process by which organizations and individuals build ongoing, permanent relationships for the purpose of applying a collective vision for the benefit of a community. Structured to establish relationships and work with community organizations and leaders in formal and informal manners and partnering to create change and improve physical environments.

**Prerequisite:** ID 44001 with a minimum C grade.

**Schedule Type:** Studio

**Contact Hours:** 10 other

**Grade Mode:** Standard Letter

**ID 44011 INTEGRATED DESIGN PRACTICE AND PROJECT MANAGEMENT 2 Credit Hours**

Introduction and application of current interior design and related disciplines project management needs, methods, and techniques in order to complete a design-build project. Content is project scheduling, documentation and supervision of all members of a design-build team including interior designers, architects, construction personnel and assorted trades involved in producing a built environment.

**Prerequisite:** ID 44612 with a minimum C grade.

**Corequisite:** ID 44001.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**ID 44014 HISTORY OF INTERIORS II-16TH THROUGH 19TH CENTURY 3 Credit Hours**

Provides a thorough background of the major design periods and traditions of global civilizations from the 16th through the 19th centuries including the design of furnishings, architecture, interiors, textiles, and the decorative and fine arts. The influence of culture, geography, technology, religion and politics on design are investigated.

**Prerequisite:** ID 24013 with a minimum C grade.

**Corequisite:** ID 34002.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ID 44015 HISTORY OF INTERIORS III-20TH CENTURY TO THE PRESENT 3 Credit Hours**

Provides a thorough background of the major design periods and traditions of global civilizations from the 20th century to the present including the design of furnishings, architecture, interiors, textiles, and the decorative and fine arts. The influence of culture, geography, technology, religion and politics on design are investigated.

**Prerequisite:** ID 44014 with a minimum C grade.

**Corequisite:** ID 44001.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter



**ID 44041 CURRENT ISSUES IN INTERIOR DESIGN 1 Credit Hour**  
Structured to inform the advanced design student about issues within the design and social world and how design contributes to improving human well-being and livelihood. Focuses the student on developing an understanding that designers and creative professionals have a responsibility and are able to cause real change in the world through good design.

**Prerequisite:** ID 44001.

**Corequisite:** ID 44002.

**Schedule Type:** Lecture

**Contact Hours:** 1 lecture

**Grade Mode:** Standard Letter

**ID 44505 STUDIO PROBLEMS IN INTERIOR DESIGN V 2 Credit Hours**  
Introduction to principles of historic design focusing on hands-on and on-site design techniques. For interior design majors only.

**Prerequisite:** ID 34504 and ID 44534.

**Corequisite:** ID 44535.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**ID 44506 STUDIO PROBLEMS IN INTERIOR DESIGN VI 4 Credit Hours**

Special problems concerning the design of large-scale commercial environments.

**Prerequisite:** CMGT 31015 and ID 44505.

**Corequisite:** ARCH 40501.

**Schedule Type:** Lecture, Studio

**Contact Hours:** 2 lecture, 2 other

**Grade Mode:** Standard Letter

**ID 44507 STUDIO PROBLEMS IN INTERIOR DESIGN VII 4 Credit Hours**

This course will provide the opportunity for a senior design thesis. Problems will be selected by the students and will represent their own area of interest.

**Prerequisite:** ID 44506 and ARCH 40501.

**Schedule Type:** Lecture, Studio

**Contact Hours:** 2 lecture, 2 other

**Grade Mode:** Standard Letter

**ID 44512 HISTORIC FURNISHING TEXTILES 2 Credit Hours**  
(Slashed with ID 54512) Designed to acclimate students to historic textiles created primarily for use in interior architecture. Focus is on aesthetics, design and construction. A comprehensive adaptive reuse or restoration project is required.

**Prerequisite:** ID 44534 and ID 44535.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**ID 44523 INTERIOR DESIGN PROFESSIONAL PRACTICE 2 Credit Hours**

A study of the business and professional practices of interior designers.

**Prerequisite:** ID 34504.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**ID 44525 LIGHTING APPLICATION IN INTERIOR SPACES 3 Credit Hours**

Design application of lighting technology for various interior spaces. Field trips to study lighting installations.

**Prerequisite:** ID 34503.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ID 44527 STUDY TOURS 1-10 Credit Hours**

A series of study tours for in-depth, first-hand experiences of historic sites, markets, manufacturing facilities and attendance at product seminars.

**Prerequisite:** Junior or senior standing.

**Schedule Type:** Lecture

**Contact Hours:** 1-10 lecture

**Grade Mode:** Standard Letter

**ID 44534 HISTORY OF INTERIORS TO 1600 (WIC) 4 Credit Hours**

A chronological study of housing and furnishings from civilization to the 15th century.

**Prerequisite:** ID 34504; and ARTH 22006 and ARTH 22007; or ARCH 10011 and ARCH 10012; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 4 lecture

**Grade Mode:** Standard Letter

**Attributes:** Writing Intensive Course

**ID 44535 HISTORY OF INTERIORS-1600 TO PRESENT 4 Credit Hours**

A chronological study of housing and furnishings from the Renaissance to the Victorian Period-16th to 19th centuries and 20th century.

**Prerequisite:** ID 44534.

**Schedule Type:** Lecture

**Contact Hours:** 4 lecture

**Grade Mode:** Standard Letter

**ID 44592 PROFESSIONAL INTERIOR DESIGN INTERNSHIP (ELR) 1-4 Credit Hours**

(Repeatable for a maximum of 4 credit hours) Provides practical professional interior design experience by exposing the student to first-hand knowledge of the professional work environment. Students are required to prepare a portfolio and resume, and interview for the positions offered by the professional design firms locally, nationally and internationally.

**Prerequisite:** ID 34002 with a minimum C grade.

**Schedule Type:** Practical Experience

**Contact Hours:** 12-48 other

**Grade Mode:** Standard Letter

**Attributes:** Experiential Learning Requirement

**ID 44611 INTERIOR DESIGN RESEARCH AND PROGRAMMING 2 Credit Hours**

Structured to provide the student with an understanding of the research systems of inquiry related to the interior design process; the ability to demonstrate an understanding of the knowledge and tools related to the gathering of data related to the successful completion of a design project; and experience in researching, evaluating and programming of private and public spaces.

**Prerequisite:** ID 34001 with a minimum C grade.

**Corequisite:** ID 44631.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**ID 44612 INTERIOR SPECIFICATIONS AND COST ANALYSIS 3 Credit Hours**

Promotes an understanding of specifications and cost analysis of materials and furniture utilized in the design and construction of the sustainable interior environment. Informs students about format and content of the specifications that pertain to the interior contract documentation.

**Prerequisite:** ID 34001 with a minimum C grade.

**Corequisite:** ID 34002.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ID 44631 INQUIRY FOR EVIDENCE BASED DESIGN (WIC) 1 Credit Hour**

Structured to provide the student with the ability 1) to apply the research systems of inquiry related to the interior design process; 2) to demonstrate an understanding of the knowledge and tools related to the gathering of data related to the successful completion of a design project; 3) to experience the research, evaluation, and programming of private and public spaces.

**Prerequisite:** ID 34001 with a minimum C grade.

**Corequisite:** ID 44611.

**Schedule Type:** Lecture

**Contact Hours:** 1 lecture

**Grade Mode:** Standard Letter

**Attributes:** Writing Intensive Course

**ID 51093 VARIABLE TITLE WORKSHOP IN INTERIOR DESIGN 1-4 Credit Hours**

(Repeatable for credit) Workshop topics dealing with variable topics related to the interior design profession. Learning experiences are provided in a wide range of areas.

**Prerequisite:** Interior design major; and graduate standing.

**Schedule Type:** Workshop

**Contact Hours:** 1-4 other

**Grade Mode:** Satisfactory/Unsatisfactory

**ID 51095 SPECIAL TOPICS IN INTERIOR DESIGN 1-4 Credit Hours**

(Repeatable for credit) Discussion of a major topic or issue within the profession of interior design.

**Prerequisite:** Interior design major; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 1-4 lecture

**Grade Mode:** Standard Letter

**ID 51096 INDIVIDUAL INVESTIGATION IN INTERIOR DESIGN 1-3 Credit Hours**

(Repeatable for credit) Independent study of interior design and related topics under the guidance of a faculty member.

**Prerequisite:** Interior design major; and graduate standing.

**Schedule Type:** Individual Investigation

**Contact Hours:** 1-3 other

**Grade Mode:** Standard Letter-IP

**ID 54512 HISTORIC FURNISHING TEXTILES 2 Credit Hours**

(Slashed with ID 44512) Designed to acclimate students to historic textiles created primarily for use in interior architecture. Focus is on aesthetics, design and construction. A comprehensive adaptive reuse or restoration project is required.

**Prerequisite:** ID 44534 and ID 44535; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**ID 54534 HISTORY OF INTERIORS TO 1600 4 Credit Hours**

A chronological study of housing and furnishings from civilization to the 15th century.

**Prerequisite:** Graduate standing and special approval and ID 34504; and ARTH 22006 and ARTH 22007; or ARCH 10011 and ARCH 10012.

**Schedule Type:** Lecture

**Contact Hours:** 4 lecture

**Grade Mode:** Standard Letter

**ID 54535 HISTORY OF INTERIORS 1600 TO PRESENT 4 Credit Hours**

A chronological study of housing and furnishings from the Renaissance to the Victorian Period, sixteenth to nineteenth centuries and twentieth century.

**Prerequisite:** ID 54534; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 4 lecture

**Grade Mode:** Standard Letter

## Italian (ITAL)

**ITAL 15201 ELEMENTARY ITALIAN I 4 Credit Hours**

An introduction to the Italian language in the context of Italian culture.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 4 lecture

**Grade Mode:** Standard Letter

**Attributes:** TAG Foreign Language

**ITAL 15202 ELEMENTARY ITALIAN II 4 Credit Hours**

A continuation of the introduction to the Italian language in the context of Italian culture.

**Prerequisite:** ITAL 15201.

**Schedule Type:** Lecture

**Contact Hours:** 4 lecture

**Grade Mode:** Standard Letter

**Attributes:** TAG Foreign Language

**ITAL 15204 BASIC CONVERSATIONAL ITALIAN I 2 Credit Hours**

Exposure to basic grammar and to current Italian useful to travelers. Not applicable to fulfillment of foreign language requirement.

**Prerequisite:** Special approval.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**ITAL 25201 INTERMEDIATE ITALIAN I 3 Credit Hours**

Continued development of speaking, listening, reading and writing skills using a variety of cultural materials.

**Prerequisite:** ITAL 15202.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** TAG Foreign Language

**ITAL 25202 INTERMEDIATE ITALIAN II 3 Credit Hours**

Continuation of ITAL 25201.

**Prerequisite:** ITAL 25201.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** TAG Foreign Language

**ITAL 35211 COMPOSITION AND CONVERSATION: CONTEMPORARY ITALIAN SOCIETY 3 Credit Hours**

This course is designed to develop acquisition of written and oral proficiency through the study and practice of written and spoken Italian in the context of contemporary societal issues.

**Prerequisite:** ITAL 25202.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ITAL 35213 COMPOSITION AND CONVERSATION: MEDIA AND INFORMATION IN ITALY 3 Credit Hours**

This course is designed to develop acquisition of written and oral proficiency through the study and practice of written and spoken Italian in the context of contemporary Italian media and information-gathering.

**Prerequisite:** ITAL 25202.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ITAL 35331 EARLY ITALIAN LITERATURE 3 Credit Hours**

A survey of Italian literature from its medieval origins through the Baroque period.

**Prerequisite:** ITAL 35211 or ITAL 35213.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ITAL 35332 RECENT ITALIAN LITERATURE (ELR) 3 Credit Hours**

A survey of Italian literature from the Enlightenment through the 1900s and into the 21st century.

**Prerequisite:** ITAL 35211 or ITAL 35213.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Experiential Learning Requirement

**ITAL 35421 ITALIAN CIVILIZATION 3 Credit Hours**

Lectures, readings, oral and written reports on outstanding features of the culture and civilization of Italy.

**Prerequisite:** ITAL 25202.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ITAL 35597 COLLOQUIUM 3 Credit Hours**

(Repeatable for credit) Variable topic course deals with single literary theme in Italian literature or a single author. May be offered in Italian or in English translation.

**Prerequisite:** Permission.

**Schedule Type:** Colloquium

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**ITAL 45093 VARIABLE TITLE WORKSHOP IN ITALIAN 1-6 Credit Hours**

(Repeatable for credit) Workshops individually designed to provide instruction and training in specific areas of Italian studies.

**Prerequisite:** Departmental permission.

**Schedule Type:** Workshop

**Contact Hours:** 1-6 other

**Grade Mode:** Satisfactory/Unsatisfactory

**ITAL 45095 SPECIAL TOPICS IN ITALIAN 3 Credit Hours**

Designed to instruct students on a specific topic in the area of Italian studies.

**Prerequisite:** ITAL 35211.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ITAL 45096 INDIVIDUAL INVESTIGATION 1-3 Credit Hours**

(Repeatable for a total of 6 credit hours) Allows the advanced, serious student to carry out research study project on Italian literature, language or culture. Prior approval of supervising faculty member department required.

**Prerequisite:** ITAL 25202; and junior standing; and special approval.

**Schedule Type:** Individual Investigation

**Contact Hours:** 1-3 other

**Grade Mode:** Standard Letter-IP

**ITAL 45212 ADVANCED ITALIAN CONVERSATION 3 Credit Hours**

Designed to develop students' ability to employ acquired grammar and vocabulary in conversation in Italian. Students will elaborate on cultural and social aspects of Italy presented in class and actively participate in class discussions.

**Prerequisite:** ITAL 35211 or 35213.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

## Japanese (JAPN)

**JAPN 15101 ELEMENTARY JAPANESE I 4 Credit Hours**

Introduction to modern standard Japanese in the context of Japanese culture.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 4 lecture

**Grade Mode:** Standard Letter

**JAPN 15102 ELEMENTARY JAPANESE II 4 Credit Hours**

A continuation of the introduction to modern standard Japanese in the context of Japanese culture.

**Prerequisite:** JAPN 15101.

**Schedule Type:** Lecture

**Contact Hours:** 4 lecture

**Grade Mode:** Standard Letter

**JAPN 25201 INTERMEDIATE JAPANESE I 4 Credit Hours**

Continued development of speaking, listening, reading and writing skills using a variety of cultural materials.

**Prerequisite:** JAPN 15102.

**Schedule Type:** Lecture

**Contact Hours:** 4 lecture

**Grade Mode:** Standard Letter

**JAPN 25202 INTERMEDIATE JAPANESE II 4 Credit Hours**

Continuation of JAPN 25201.

**Prerequisite:** JAPN 25201.

**Schedule Type:** Lecture

**Contact Hours:** 4 lecture

**Grade Mode:** Standard Letter

**JAPN 30095 SPECIAL TOPICS 3 Credit Hours**

(Repeatable for credit) Topic to be announced in schedule of classes.

**Prerequisite:** Permission.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**JAPN 35101 INTENSIVE JAPANESE GRAMMAR 3 Credit Hours**

A continuation of the study of modern standard Japanese grammar.

Focus on passive, causative, passive-causative forms.

**Prerequisite:** JAPN 25202 with a minimum C grade.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**JAPN 35325 READINGS IN MODERN JAPANESE 3 Credit Hours**

Close readings of contemporary Japanese topics such as technology, pop culture, food, geography, etc. Emphasizes reading skills, vocabulary, and kanji.

**Pre/corequisite:** JAPN 35101.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**JAPN 35326 READINGS IN TRADITIONAL JAPANESE 3 Credit Hours**

Close readings of traditional Japanese topics such as folk tales, arts, history, haiku, etc. Emphasizes reading skills, vocabulary and Kanji.

**Pre/corequisite:** JAPN 35101.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**JAPN 45096 INDIVIDUAL INVESTIGATION IN JAPANESE 1-3 Credit Hours**

(Repeatable for credit) Individual study supervised by a faculty member on an approved topic dealing with Japanese language and-or culture.

**Prerequisite:** JAPN 25201.

**Schedule Type:** Individual Investigation

**Contact Hours:** 1-3 other

**Grade Mode:** Standard Letter-IP

**JAPN 45211 WRITING IN JAPANESE 3 Credit Hours**

Advanced study of Japanese with emphasis on writing in different styles (essays, questionnaires, charts, emails, etc).

**Pre/corequisite:** JAPN 35101.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**JAPN 45212 ORAL COMMUNICATION IN JAPANESE 3 Credit Hours**

The class focuses on oral communication. Students practice expressing their opinions on familiar subjects and various topics related to Japanese culture through group discussion, interviews, role plays, and presentations. They learn different communication strategies and conversation styles from casual to formal.

**Pre/corequisite:** JAPN 35101.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**JAPN 45301 BUSINESS JAPANESE 3 Credit Hours**

Development of the four language skills in a manner specific to Japanese corporate settings. Introduces Japanese business practice and business etiquette.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**JAPN 45411 VOICES FROM JAPAN 3 Credit Hours**

Designed to further develop students' proficiency in speaking, listening, writing and reading comprehension. The textbook includes interviews with Japanese from various backgrounds.

**Pre/corequisite:** JAPN 35101.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**JAPN 45421 JAPANESE CULTURE 3 Credit Hours**

Explores key aspects of traditional and contemporary Japanese culture. Taught in English; no knowledge of Japanese necessary.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**JAPN 45591 VARIABLE TOPIC SEMINAR IN JAPANESE 3 Credit Hours**

(Repeatable for credit) Seminar in Japanese literature or culture; course may be repeated when content varies. Student should have completed at least 9 hours of upper division work in Japanese.

**Prerequisite:** Special approval.

**Schedule Type:** Seminar

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**JAPN 55301 BUSINESS JAPANESE 3 Credit Hours**

Development of the four language skills in a manner specific to Japanese corporate settings. Introduces Japanese business practice and business etiquette.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**JAPN 65010 THE PRACTICE OF JAPANESE TRANSLATION 2 Credit Hours**

Provides an introduction to the translation of non-specialized, non-fiction Japanese texts, focusing on common problem areas, general translation strategies, and specific techniques for resolving problems.

**Prerequisite:** Graduate standing.

**Corequisite:** TRST 60010.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**JAPN 65091 SEMINAR 3 Credit Hours**

(Repeatable for credit) Topic announced in schedule of classes; may be repeated when content varies.

**Prerequisite:** Graduate standing.

**Schedule Type:** Seminar

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**JAPN 65098 RESEARCH 1-15 Credit Hours**

(Repeatable for credit) Research or individual investigation for master's level graduate students. Credits earned applied toward degree requirements if department approves.

**Prerequisite:** Graduate standing; and departmental approval.

**Schedule Type:** Research

**Contact Hours:** 1-15 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**JAPN 65240 LITERARY AND CULTURAL TRANSLATION 3 Credit Hours**

Translation of documents from a variety of literary and cultural sources, including literature, expository and journalistic prose, scholarly treatises and essays.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**JAPN 65250 COMMERCIAL, LEGAL AND DIPLOMATIC TRANSLATION 3 Credit Hours**

An introduction to methods and resources for the translation of commercial, economic, financial, legal, diplomatic and governmental documents.

**Prerequisite:** TRST 60010; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**JAPN 65251 SCIENTIFIC, TECHNICAL AND MEDICAL TRANSLATION 3 Credit Hours**

An introduction to methods and resources for the translation of scientific, technical, industrial and medical documents.

**Prerequisite:** TRST 60010; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**JAPN 65979 CASE STUDY IN TRANSLATION 3 Credit Hours**

Students will be responsible for a major translation and a terminology glossary as well as a critical analysis of the source text, the problems encountered during the translation process and the strategies used to solve them.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Satisfactory/Unsatisfactory

## Jewish Studies (JWST)

**JWST 11001 INTRODUCTION TO JEWISH STUDIES 3 Credit Hours**

Introductory exploration and examination of the diversity of Jewish life, culture, religion and society from antiquity to the present.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**JWST 20011 INTRODUCTION TO THE HEBREW BIBLE OR OLD TESTAMENT 3 Credit Hours**

Introduces students to the modern study of the Hebrew Bible (Old Testament) and the history and religion of ancient Israel. Designed to help students to understand the development of the Hebrew Bible in its ancient context. The course approaches the Hebrew Bible from historical, comparative, literary, anthropological and archeological perspectives in an effort to illuminate the world of its authors. No prior knowledge of the Bible, Judaism or Christianity is required.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**JWST 30092 INTERNSHIP IN JEWISH STUDIES (ELR) 3-6 Credit Hours**

(Repeatable for credit) Internship in Jewish studies.

**Prerequisite:** Special approval.

**Schedule Type:** Practical Experience

**Contact Hours:** 9-18 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**Attributes:** Experiential Learning Requirement

**JWST 30100 JEWISH WOMEN IN THE MODERN WORLD 3 Credit Hours**

Course explores the lives and experiences of Jewish women from diverse communities and traditions, in relation to a wide array of divergent cultural contexts within the modern world.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**JWST 30200 JEWS, BASEBALL AND AMERICAN SPORTS 3 Credit Hours**

Chronicles the experience of Jewish players and performers in American sports. Course explores the issues of religious and ethnic prejudice that Jewish athletes endured, challenged and overcame.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**JWST 30300 CHILDREN OF THE HOLOCAUST: PERPETRATORS AND VICTIMS 3 Credit Hours**

Examination of the children directly affected by the Holocaust (whether as victims, perpetrators, heroes, rescuers or survivors) and the impact these children had on the Holocaust and on history.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**JWST 40095 SPECIAL TOPICS IN JEWISH STUDIES 3 Credit Hours**

(Repeatable for credit) Topics vary per course offering as published in the Schedule of Classes.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter



**JWST 40096 INDIVIDUAL INVESTIGATION 1-3 Credit Hours**  
(Repeatable for credit) Student-initiated experience in an area of interest not covered by a regular course offering and with the guidance of a Kent State faculty member.

**Prerequisite:** Special approval.

**Schedule Type:** Individual Investigation

**Contact Hours:** 3-9 other

**Grade Mode:** Standard Letter

## Journalism and Mass Communication (JMC)

**JMC 10009 ELEMENTS OF FILM, TV AND ANIMATION 3 Credit Hours**

An introduction to the theory and conceptual choices in story, picture and sound. This course prepares students for the creative and technical aspects of film, TV, and animation work.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**JMC 12001 ELEMENTARY PHOTOGRAPHY 2 Credit Hours**

Introduction to fundamentals and techniques of still and motion picture photography. Terminal course for students who do not have photography requirements.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**JMC 13001 PRODUCTION SAFETY AND SET PROTOCOL 2 Credit Hours**

This course will enhance the collaborative experience of multimedia creation by exposing students to the various skill sets and positions in the film and TV industries and familiarize them with industry standards and best practices, especially concerning safety processes.

**Prerequisite:** School of journalism and mass communication major.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**JMC 20001 MEDIA, POWER AND CULTURE (DIVD) (KSS) 3 Credit Hours**

Fosters critical understanding of mass media in their historical, ideological, economic and cultural contexts. Examines what forces influence media and how media influence consumers.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Diversity Domestic, Kent Core Social Sciences, Transfer Module Social Sciences

**JMC 20004 ADVERTISING WRITING AND STORYTELLING 3 Credit Hours**

Introduces students to writing for advertising. In particular, students will understand how to effectively and strategically communicate to a variety of audiences, including business partners and consumers.

**Prerequisite:** Minimum 2.000 overall GPA; and advertising major or minor, digital media production, fashion media, journalism, media literacy, photojournalism, public relations or visual journalism.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**JMC 20005 FUNDAMENTALS OF MEDIA MESSAGES 3 Credit Hours**

Working with messages for print, broadcast, electronic and new media outlets. Course may not be taken for credit nor applied toward any requirements by a journalism and mass communication major.

**Prerequisite:** Communication studies major or fashion merchandising or community health education major.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**JMC 20006 MULTIMEDIA TECHNIQUES 3 Credit Hours**

Introduction to basic elements of multimedia journalistic storytelling, including the creation of audio, video, slideshows and multimedia packages for distribution via the Internet.

**Prerequisite:** Advertising, digital media production, fashion media, journalism, photojournalism or public relations major or minor.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 2 lecture, 2 lab

**Grade Mode:** Standard Letter

**JMC 20008 RESEARCH AND MEASUREMENT IN ADVERTISING AND PUBLIC RELATIONS 3 Credit Hours**

Understand the ways research is employed and applied in integrated communication, including both primary and secondary research. Students will understand how to use research and insights to develop strategy, or to craft research on business strategy. They also will become thoughtful researchers and consumers of research who are cognizant of the ethical and moral responsibilities associated with human subjects research. Students will be expected to understand and appreciate the diversity of audiences. Finally, students will develop critical thinking and writing skills in order to create and share a well-crafted presentation to clients that reflect a strong understanding of the connections among data, insight and strategy.

**Prerequisite:** EMAT 10310 or JMC 20006; and JMC 21001 or JMC 28001; and minimum 2.000 overall GPA; and advertising, fashion media, journalism, media literacy, photojournalism, public relations or visual journalism major or minor.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**JMC 20009 VIDEO AUDIO PRODUCTION AESTHETICS 3 Credit Hours**

Study of basic video and audio production aesthetics; analysis of film, television and radio through creative use of images and sound to create meaning.

**Prerequisite:** Advertising, communication studies, design, digital media production, digital sciences, fashion media, global communication, health communication, information design, interpersonal communication, journalism, media literacy, organizational communication, photography, photojournalism, public communication, public relations, user experience design, visual communication design or visual journalism major or minor.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**JMC 20011 PRODUCTION FUNDAMENTALS 3 Credit Hours**

Introduction to TV studio, camera, and sound production and post-production techniques.

**Prerequisite:** School of journalism and mass communication, or school of emerging media and technology, or school of visual communication design major or minor.

**Schedule Type:** Laboratory, Lecture, Combined Lecture and Lab

**Contact Hours:** 1 lecture, 4 lab

**Grade Mode:** Standard Letter

**JMC 21001 PRINCIPLES OF ADVERTISING 3 Credit Hours**

Advertising history, purposes, techniques, media and research; analysis of functions of advertising organizations.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** TAG Communication

**JMC 21004 ADVERTISING AND PUBLIC RELATIONS INDUSTRY TOOLS 1 Credit Hour**

Understanding of and proficiency in word processing, spreadsheet, design and presentation tools.

**Prerequisite:** A major or minor in Advertising, digital media production, fashion media, journalism, media literacy, photojournalism, public relations or visual journalism.

**Schedule Type:** Lecture

**Contact Hours:** 1 lecture

**Grade Mode:** Standard Letter

**JMC 21005 ADVERTISING MESSAGING AND COMMUNICATION 3 Credit Hours**

Introduces students to the history and development of advertising, including the ways various audiences have been targeted and represented. This course also has a strong emphasis on professional writing and communication.

**Prerequisite:** JMC 20004 and JMC 21001 with a minimum C- grade; and EMAT 10310 or JMC 20006 with a minimum C- grade; and minimum 2.000 overall GPA; and advertising minor or major.

**Pre/corequisite:** JMC 20008 with a minimum C- grade.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**JMC 21008 SOCIAL MEDIA STRATEGIES 3 Credit Hours**

Designed to help students understand and use social media in critical and strategic ways that will improve their lives and careers. Helps students harness the power and potential of the social Web, including strategies used to position and market organizations as well as individuals. Exposes students to the latest social-media applications and to critical views of social media's impact on business, society and culture. Students are also introduced to interaction perspectives of social media, which are embedded within both the communication studies and the journalism and mass communication curriculum. Students emerge from the class with a strategic plan designed to enhance their lives and their careers.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**JMC 22000 PHOTOGRAPHY BASICS 1 Credit Hour**

Fundamentals of b/w and color photography and digital manipulation software. Introduction of basic themes of journalistic photography including flash photography. Student furnishes 35mm or APS camera with flash. Disposable cameras not acceptable. A GPA of 2.700 is required in the major.

**Prerequisite:** Minimum 2.000 overall GPA; and integrated language arts, digital media production or journalism major.

**Schedule Type:** Lecture

**Contact Hours:** 1 lecture

**Grade Mode:** Standard Letter

**JMC 22001 PHOTOGRAPHY 3 Credit Hours**

Basic camera and digital techniques to provide a better understanding of photography as a creative and journalistic skill.

**Prerequisite:** Art education or journalism major or minor.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** TAG Communication

**JMC 22002 VIDEOGRAPHY BASICS 1 Credit Hour**

Instruction in basic camcorder videography video editing techniques to provide understanding of processes as creative journalistic skills and as practical application of knowledge acquired in the prerequisite class.

**Prerequisite:** Journalism and mass communication or integrated language arts or visual communication and design major.

**Schedule Type:** Lecture

**Contact Hours:** 1 lecture

**Grade Mode:** Standard Letter

**JMC 22003 VIDEOGRAPHY BASICS II 1 Credit Hour**

Emphasis on video editing for broadcast news and electronic media production applications using computer video editing skills.

**Prerequisite:** School of journalism and mass communication major or minor.

**Pre/corequisite:** JMC 22002 with a minimum C- grade.

**Schedule Type:** Lecture

**Contact Hours:** 1 lecture

**Grade Mode:** Standard Letter

**JMC 22004 VISUAL STORYTELLING 3 Credit Hours**

Technical and digital skills needed to produce photos that communicate. Course will stress narrative work, detailed caption information and reporting. A GPA of 2.700 is required in the major.

**Prerequisite:** JMC 22001 or CCI 12001; and minimum 2.000 overall GPA; and journalism and mass communication or visual communication design major.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**JMC 23004 STORY FOR PICTURE 3 Credit Hours**

An introductory course on plot, character development, and dramatic structure for narrative scriptwriting.

**Prerequisite:** Advertising, digital media production, fashion media, journalism, media literacy, photojournalism, public relations or visual journalism major or minor.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**JMC 23030 BASIC VIDEO PRODUCTION 3 Credit Hours**

Theoretical and practical application of program production for video. A GPA of 2.700 is required in the major.

**Prerequisite:** JMC 20001 or JMC 20003 with a minimum C- grade; and JMC 20004 and JMC 22002 with a C- grade; and minimum 2.000 overall GPA; and journalism and mass communication major.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 2 lecture, 2 lab

**Grade Mode:** Standard Letter

**JMC 23031 BASIC AUDIO PRODUCTION 3 Credit Hours**

Theoretical and practical application of program production for audio production. A GPA of 2.700 is required in the major.

**Prerequisite:** JMC 20003 with a minimum C- grade; and JMC 20004 and 22002 with a minimum C- grade; and minimum 2.000 overall GPA; and school of journalism and mass communication major or minor.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 2 lecture, 2 lab

**Grade Mode:** Standard Letter

**Attributes:** TAG Communication

**JMC 23130 DIRECTING FOR PICTURE 3 Credit Hours**

A course designed to give students the creative and technical knowledge and skills needed to direct narrative and documentary productions. A GPA of 2.700 is required in the major.

**Prerequisite:** JMC 20011 with a minimum C- grade; and JMC 23004 or JMC 30004 with a minimum C- grade; and minimum 2.000 overall GPA; and advertising, digital media production, fashion media, journalism, media literacy, photojournalism, public relations or visual journalism major or minor.

**Schedule Type:** Laboratory, Lecture, Combined Lecture and Lab

**Contact Hours:** 2 lecture, 2 lab

**Grade Mode:** Standard Letter

**JMC 23140 PRODUCTION I 3 Credit Hours**

A hands-on introduction to narrative and documentary storytelling. Students write, edit and direct projects emphasizing visual storytelling. A GPA of 2.700 is required in the major.

**Prerequisite:** A minimum C- grade in the following courses JMC 20011, JMC 23004 and JMC 23130.

**Schedule Type:** Laboratory, Lecture, Combined Lecture and Lab

**Contact Hours:** 1 lecture, 4 lab

**Grade Mode:** Standard Letter

**JMC 26001 WRITING ACROSS PLATFORMS 3 Credit Hours**

Theory and practice in writing basic print and digital news and feature stories.

**Prerequisite:** JMC 20003 with a minimum C- grade; and JMC 20006 or EMAT 10310 with a minimum C- grade; and school of journalism and mass communication major or minor; or integrated language arts major.

**Schedule Type:** Laboratory, Lecture, Combined Lecture and Lab

**Contact Hours:** 1 lecture, 4 lab

**Grade Mode:** Standard Letter

**JMC 26005 STORYTELLING ACROSS PLATFORMS 3 Credit Hours**

Multimedia as story telling tools. Developing the multimedia mindset. Using different delivery platforms and understanding deadlines of various media forms. Formatting stories for webmobile delivery. Learning different multimedia formats. Using multimedia in breaking news situations. Creating multimedia features and packages. Standalone vs. complementary stories. Learning more about capturing and using video, audio and still photos. Ethical and legal issues surrounding online news reporting and presentation. A GPA of 2.700 is required in the major.

**Prerequisite:** Minimum C- grade in JMC 26001; and minimum C- grade in EMAT 10310 or JMC 20006.

**Schedule Type:** Laboratory, Lecture

**Contact Hours:** 2 lecture, 2 lab

**Grade Mode:** Standard Letter

**JMC 26007 REPORTING 3 Credit Hours**

Gathering and writing news: interviewing techniques, cultivating sources, developing beats, meeting deadlines. Includes campus reporting for Daily Kent Stater. A GPA of 2.700 is required in the major.

**Prerequisite:** A minimum C- grade in JMC 26005 or JMC 38002.

**Schedule Type:** Laboratory, Lecture

**Contact Hours:** 2 lecture, 2 lab

**Grade Mode:** Standard Letter

**JMC 26008 BROADCAST REPORTING 3 Credit Hours**

Writing news, developing sources and beats, meeting deadlines as they relate to electronic media. Includes reporting campus news for daily broadcasts. A GPA of 2.700 is required in the major.

**Prerequisite:** JMC 26005 and COMM 21000 with a minimum C- grade; and minimum 2.000 cumulative GPA; and school of journalism and mass communication major.

**Schedule Type:** Laboratory, Lecture

**Contact Hours:** 2 lecture, 2 lab

**Grade Mode:** Standard Letter

**JMC 26395 SPECIAL TOPICS IN JOURNALISM SKILLS 3 Credit Hours**

(Repeatable three times for credit) Includes writing different types of news stories for various platforms.

**Prerequisite:** Special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**JMC 28001 PRINCIPLES OF PUBLIC RELATIONS 3 Credit Hours**

Explores strategic role and function of public relations in business, nonprofit public institutions and society. Covers public relations practice from development to present.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**JMC 30004 WRITING FOR VIDEO AND AUDIO MEDIA 3 Credit Hours**

Application of standard writing styles and formats in the electronic media. Writing practice in commercials, continuity, promotions and introductory scriptwriting techniques. A GPA of 2.700 is required in the major.

**Prerequisite:** JMC 20009 or JMC 20011 with a minimum C- grade; and minimum 2.000 overall GPA; and advertising, digital media production, fashion media, journalism, media literacy, photojournalism, public relations or visual journalism major or minor.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**JMC 30034 PROGRAMMING FOR DIGITAL MEDIA 3 Credit Hours**

Background analysis of radio, TV, cable and Internet programming and the relationship to audience needs, interests, expectations and audience measurement procedures. A GPA of 2.700 is required in the major.

**Prerequisite:** A minimum C- grade in either JMC 30036 or JMC 33033 or JMC 33043.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**JMC 30036 DIGITAL VIDEO EDITING 3 Credit Hours**

Intermediate class in editing for single camera and multi-camera productions using Adobe Premiere software. A GPA of 2.700 is required in the major.

**Prerequisite:** JMC 20011 with a minimum C- grade; and minimum 2.000 overall GPA; and school of journalism and mass communication major or minor.

**Schedule Type:** Laboratory, Lecture, Combined Lecture and Lab

**Contact Hours:** 2 lecture, 2 lab

**Grade Mode:** Standard Letter

**JMC 31002 ADVERTISING COPYWRITING (WIC) 3 Credit Hours**

Examination and practice in various forms of advertising copywriting and their applications. A GPA of 2.700 is required in the major.

**Prerequisite:** Minimum grade of C- in JMC 20004 and 21001 and 31011; and minimum 2.000 overall GPA; and advertising major or minor.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Writing Intensive Course

**JMC 31003 ADVERTISING MEDIA PLANNING 3 Credit Hours**

Analysis, selection and scheduling of advertising media. Examination of advertising research, technique and application. A GPA of 2.700 is required in the major.

**Prerequisite:** Minimum grade of C- in JMC 20004 and 20008 and 21001; and minimum 2.000 overall GPA; and advertising major or minor.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**JMC 31004 DIGITAL ADVERTISING 3 Credit Hours**

Explores digital targeting, advertising and mobilization in detail. Students will learn how to run winning digital advertising campaigns that educate and activate constituents. It is the study of overall strategic creation of digital advertising communication with a focus on copy writing and the implementation of basic production skills. A 2.70 GPA is required in the major.

**Prerequisite:** Minimum C- grade in JMC 20004 and JMC 20008 and JMC 21001; and minimum 2.000 overall GPA; and advertising major or minor.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**JMC 31007 DIGITAL ANALYTICS IN ADVERTISING AND PUBLIC RELATIONS 2 Credit Hours**

Explores digital analytics and online measurement. Students will start with planning and setting measurable objectives, finding online audiences, and then design and implement measurement plans. Students will use social media analytics tools and Google analytics to capture data and then determine next steps. A 2.70 GPA is required in the major.

**Prerequisite:** JMC 20008 with a minimum C- grade; and minimum 2.000 overall GPA; and advertising or public relations major or minor.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**JMC 31011 ADVERTISING STRATEGY DEVELOPMENT 3 Credit Hours**

Ad majors learn problem-solving techniques, which they will apply to business and creative proposals designed to promote products and or services. Development of good, clear writing skills is a key component of the course.

**Prerequisite:** Minimum C- grade in JMC 20004, JMC 20008, JMC 21001 and JMC 21004; and minimum C- grade in either EMAT 10310 or JMC 20006; and minimum 2.000 overall GPA; and advertising major or minor.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**JMC 32001 PHOTOJOURNALISM I 3 Credit Hours**

Production of photographs for newspapers, magazines and online news media. A laboratory course emphasizing color and black and white photography. A GPA of 2.700 is required in the major.

**Prerequisite:** Minimum C- grade in CCI 12001 or JMC 22001 or VCD 18000.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**JMC 32002 PHOTOJOURNALISM II 3 Credit Hours**

(Repeatable once for credit) Continuation of JMC 32001. Advanced news and feature photography for newspapers, magazines and online including a collaborative project. A GPA of 2.700 is required in the major.

**Prerequisite:** A minimum C- grade in JMC 32001.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**JMC 32005 VIDEO FOR STILL PHOTOGRAPHERS 3 Credit Hours**

Teaches video skills for photojournalists, including interviewing, establishing a narrative, editing, and how video is paired with the written story. A GPA of 2.700 is required in the major.

**Prerequisite:** JMC 22004 with a minimum C- grade; and journalism and mass communication major.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**JMC 33024 BROADCAST PERFORMANCE 3 Credit Hours**

Development of effective communication techniques in performance situations for visual media. A GPA of 2.700 is required in the major.

**Prerequisite:** JMC 26008 with a minimum C- grade; and minimum 2.000 overall GPA; and advertising, digital media production, fashion media, journalism, media literacy, photojournalism, public relations or visual journalism major or minor.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**JMC 33032 AUDIO SET-UP AND MIXING 3 Credit Hours**

Production of in-studio audio programming units, with laboratory unit required as part of course. A GPA of 2.700 is required in the major.

**Prerequisite:** JMC 20011 with a minimum C- grade; and minimum 2.000 GPA; and advertising, digital media production, fashion media, journalism, media literacy, photojournalism, public relations or visual journalism major or minor.

**Corequisite:** JMC 30004.

**Schedule Type:** Laboratory, Lecture, Combined Lecture and Lab

**Contact Hours:** 2 lecture, 2 lab

**Grade Mode:** Standard Letter

**JMC 33033 SOUND FOR PICTURE 3 Credit Hours**

An intermediate class for audio and music in film and multimedia.

Students learn the entire process of sound for picture workflow, department by department, from pre-production and budgeting through final mixdown. A GPA of 2.700 is required in the major.

**Prerequisite:** JMC 20011 minimum C- grade; and minimum 2.000 overall GPA; and advertising, digital media production, digital sciences, fashion media, journalism, media literacy, photojournalism, public relations or visual journalism major or minor.

**Schedule Type:** Laboratory, Lecture, Combined Lecture and Lab

**Contact Hours:** 2 lecture, 2 lab

**Grade Mode:** Standard Letter

**JMC 33036 MULTIMEDIA ENGINEERING 3 Credit Hours**

Introduction to basic digital media technology and systems, providing knowledge and vocabulary to allow communication with broadcast engineers. Overview of radio/TV operations and legal viewpoint. Prep for SBE operators' cert. exam. A GPA of 2.700 is required in the major.

**Prerequisite:** JMC 20011 with a minimum C- grade; and a minimum C- grade in two of the following JMC 30036, JMC 33033 or JMC 33043; and minimum 2.000 overall GPA; and journalism and mass communication major.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**JMC 33042 STUDIO TELEVISION 3 Credit Hours**

Study of all positions of a live television program including technical directing, floor directing, graphics, digital playback, and audio engineering. One hour lecture two hours lab. A GPA of 2.700 is required in the major.

**Prerequisite:** JMC 20011 with a minimum C- grade; and minimum 2.000 overall GPA; and advertising, digital media production, fashion media, journalism, media literacy, photojournalism, public relations or visual journalism major or minor.

**Corequisite:** JMC 30004.

**Schedule Type:** Laboratory, Lecture, Combined Lecture and Lab

**Contact Hours:** 1 lecture, 4 lab

**Grade Mode:** Standard Letter

**JMC 33043 DIGITAL CINEMATOGRAPHY 3 Credit Hours**

Course focuses on digital cinematography techniques for shooting documentary and narrative fiction. Two hours lecture, one hour lab. A GPA of 2.700 is required in the major.

**Prerequisite:** JMC 20011 with a minimum C- grade; and minimum 2.000 overall GPA; and advertising, digital media production, fashion media, journalism, media literacy, photojournalism, public relations or visual journalism major or minor.

**Schedule Type:** Laboratory, Lecture

**Contact Hours:** 2 lecture, 2 lab

**Grade Mode:** Standard Letter

**JMC 33092 STUDENT MEDIA PRACTICUM IN DIGITAL MEDIA PRODUCTION (ELR) 1-3 Credit Hours**

(Repeatable for a maximum of 3 credit hours) Performance of assigned activities in radio or television under student media supervision. A GPA of 2.700 is required in the major.

**Prerequisite:** JMC 20003 with a minimum C- grade; and minimum 2.000 GPA; and sophomore standing; and special approval.

**Schedule Type:** Practical Experience

**Contact Hours:** 3-9 other

**Grade Mode:** Satisfactory/Unsatisfactory

**Attributes:** Experiential Learning Requirement

**JMC 36005 COPY EDITING AND NEWS DESIGN 3 Credit Hours**

Improving the writing of other journalists and writing headlines. Intensive review of AP style and grammar. A GPA of 2.700 is required in the major.

**Prerequisite:** COMM 21000 and JMC 26001 with a minimum C- grade; and minimum 2.000 overall GPA.

**Schedule Type:** Laboratory, Lecture

**Contact Hours:** 3 lecture, 0 lab

**Grade Mode:** Standard Letter

**JMC 36008 FREELANCE JOURNALISM 3 Credit Hours**

Provides students the tools, resources and strategies needed to pitch creative works to magazines, book publishers, contests and other media companies. They will learn to research markets, craft effective queries and manage the business considerations of being a freelancer. A GPA of 2.700 is required in the major.

**Prerequisite:** JMC 36018 with a minimum C- grade; and minimum 2.000 overall GPA; and advertising, digital media production, fashion media, journalism, media literacy, photojournalism, public relations or visual journalism major or minor.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter



**JMC 36010 INTERVIEWING AND DATA FOR JOURNALISTS 3 Credit Hours**

Interviewing techniques for reporters across media platforms. Skills for in-person, phone, email and social media interviews that will be used to produce stories for publication. Includes ethics of journalistic interviews and interrogating data. Introduction to data collection for reporters. A 2.70 GPA is required in the JMC major.

**Prerequisite:** JMC 26005 with a minimum C- grade; and a major or minor in advertising, digital media production, fashion media, journalism, media literacy, photojournalism, public relations or visual journalism.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**JMC 36018 FEATURE WRITING 3 Credit Hours**

Researching writing and placement of feature stories in publications. A GPA of 2.700 is required in the major.

**Prerequisite:** Minimum C- grade in JMC 26007 or JMC 26008; and minimum 2.000 overall GPA.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**JMC 36020 STORYTELLING WITH SOUND 3 Credit Hours**

Teaches students how to research, write, edit and produce compelling audio news and storytelling packages. Students will learn both the technical side of producing audio stories and the journalistic and narrative sides of writing audio stories. A 2.700 is required in the major.

**Prerequisite:** Minimum C- grade in JMC 26005 or JMC 23004 or JMC 30004; and minimum 2.000 overall GPA; and digital media production or journalism major or minor.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 2 lecture, 2 lab

**Grade Mode:** Standard Letter

**JMC 36040 MAGAZINE EDITING AND DESIGN 3 Credit Hours**

Teaches the fundamentals of editing and design for print magazine media. It teaches the skills necessary to become an editor. A 2.70 GPA is required in the journalism major.

**Prerequisite:** JMC 36005 with minimum C- grade; and minimum 2.000 overall GPA; and advertising, digital media production, fashion media, journalism, media literacy, photojournalism, public relations or visual journalism major or minor .

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**JMC 36050 ADVANCED REPORTING 3 Credit Hours**

Focuses on accountability journalism. Students will work on both individual and team reporting projects. Students will develop and report stories of substance on local, state, and national issues. Each student will have to conduct at least one accountability interview with either a member of Congress or a member of the state legislature on a specific topic or issue. A GPA of 2.700 is required in the major.

**Prerequisite:** JMC 26007 or JMC 26008; and a minimum 2.000 cumulative GPA; and a major or minor in advertising, digital media production, fashion media, journalism, media literacy, photojournalism, public relations or visual journalism major or minor.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 2 lecture, 2 lab

**Grade Mode:** Standard Letter

**JMC 36395 SPECIAL TOPICS IN JOURNALISM REPORTING 3 Credit Hours**

(Repeatable three times for credit) Topics of special interest not covered in existing reporting classes. A GPA of 2.700 is required in the major.

**Prerequisite:** Minimum 2.000 overall GPA; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**JMC 38002 PUBLIC RELATIONS CASE STUDIES 3 Credit Hours**

Explores the process and practice of public relations by requiring students to analyze real-world case studies and develop an actual public relations plan on behalf of a client organization. Students should expect to spend time outside the classroom working within teams in support of client objectives. A significant amount of writing in multiple formats is required. A major GPA of 2.700 is required.

**Prerequisite:** JMC 26001 and JMC 28001 with a minimum C- grade; and minimum 2.000 overall GPA; and advertising, digital media production, fashion media, journalism, media literacy, photojournalism, public relations or visual journalism major or minor.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**JMC 40002 REPORTING FOR MASS MEDIA 3 Credit Hours**

(Slashed with JMC 50002) Theory and practice in newswriting and reporting; news values and news judgment lead and story development techniques of gathering information and dealing with sources of news writing for deadline. Course may not be taken for credit or applied toward any requirements by a Journalism and Mass Communication (JMC) major or minor without special approval.

**Prerequisite:** Minimum 2.75 overall GPA; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**JMC 40004 COMPUTER ASSISTED REPORTING 3 Credit Hours**

(Slashed with JMC 50004) Computer analysis of large data sets, focusing on government court police records for preparation of news stories basics of online searching software and databases. A GPA of 2.700 is required in the major.

**Prerequisite:** JMC 26007 or 26008 with a C- grade; and 2.000 overall GPA.

**Schedule Type:** Laboratory, Lecture

**Contact Hours:** 3 lecture, 0 lab

**Grade Mode:** Standard Letter

**JMC 40006 LAW OF MASS COMMUNICATION 3 Credit Hours**

(Slashed with JMC 50006) Libel and slander; privacy copyright obscenity regulation of advertising broadcasting and corporate speech access to government legal; problems of new media. A GPA of 2.700 is required in the major.

**Prerequisite:** Minimum 2.000 overall GPA; and advertising, digital media production, journalism, photojournalism, public relations majors or media literacy minor; and junior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**JMC 40007 REVIEWING THE ARTS 2 Credit Hours**

(Slashed with JMC 50007) Reviewing and criticizing of performing, visual and literary arts. Emphasis on books, film, TV and theatre. A GPA of 2.700 is required in the major.

**Prerequisite:** JMC 20004 with a minimum B- grade or JMC 26001 with a C- grade; and minimum 2.000 overall GPA; and junior or senior standing.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**JMC 40009 COMPARATIVE MEDIA SYSTEMS 3 Credit Hours**

Study of the forms, organization scope and modes of operation of media systems in foreign lands. Also examines agent channels and contents of international communication. A GPA of 2.700 is required in the major.

**Prerequisite:** Minimum 2.000 overall GPA; and junior or senior standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**JMC 40010 ETHICS AND ISSUES IN MASS COMMUNICATION (WIC) 3 Credit Hours**

Ethical problems and issues in mass communication within a framework of basic theories, functions and social roles of the mass media. A GPA of 2.700 is required in the major.

**Prerequisite:** At least 18 hours of JMC courses with a minimum C- grade; a minimum C- grade in JMC 20004 or JMC 26001 or JMC 30004; and minimum 2.000 overall GPA; and school of journalism and mass communication major; and senior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Writing Intensive Course

**JMC 40011 ETHICAL ISSUES IN INTEGRATED COMMUNICATION 1 Credit Hour**

Focuses specifically on the ethical and moral issues affecting Advertising and Public Relations professionals. Focuses solely on Integrated Communications. Students will understand and appreciate the complex moral and ethical decisions that professionals make each day, often under intense deadline pressure. They also acquire their basic problem-solving skills to manage these issues in real time. A GPA of 2.700 is required in the major.

**Prerequisite:** JMC 31002 and 31003 or JMC 38002; and minimum 2.000 overall GPA; and advertising or public relations major.

**Schedule Type:** Lecture

**Contact Hours:** 1 lecture

**Grade Mode:** Standard Letter

**JMC 40012 ONLINE JOURNALISM 3 Credit Hours**

Study and evaluation of online news and news sites; reporting and writing for online news media design production and maintenance of an online news site ethical legal and economic issues related to online news. A GPA of 2.700 is required in the major.

**Prerequisite:** JMC 26007 or 26008 with a minimum C- grade; and minimum 2.000 overall GPA.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**JMC 40013 TELEVISION SPORTS PRODUCTION 3 Credit Hours**

(Slashed with JMC 50013) A comprehensive study of the production of live action television. A GPA of 2.700 is required in the major.

**Prerequisite:** Minimum 2.000 overall GPA; and journalism and mass communication major; and sophomore; and junior or senior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**JMC 40015 MEDIA MARKETPLACE 3 Credit Hours**

(Slashed with JMC 50015) Exploring management issues unique to media organizations and the impact of those issues on the organization's structure, economics markets and employees. A GPA of 2.700 is required in the major.

**Prerequisite:** JMC 26001 with a minimum C- grade; and minimum 2.000 overall GPA; and journalism and mass communication major; and junior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**JMC 40016 LAW OF ADVERTISING AND PUBLIC RELATIONS 3 Credit Hours**

(Slashed with JMC 50016) Regulation of advertising and corporate speech; first amendment libel and privacy legal problems of new media. A GPA of 2.700 is required in the major.

**Prerequisite:** 18 hours of JMC courses all with a minimum C- grade; and minimum C- grade in JMC 31002 or 31003 or 38002; and minimum 2.000 overall GPA; and advertising or public relations majors.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**JMC 40017 MEDIA ENTERPRISE 3 Credit Hours**

(Slashed with JMC 50017) Explores methods to build and sustain organizations that market and monetize multimedia content to targeted audiences through appropriate distribution streams. Through case studies, examination of evolving best practices in media organizations and elsewhere, students will study and apply enterprise thinking.

**Prerequisite:** JMC 40015 or ENTR 27056.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**JMC 40020 AUDIO AND STILL PHOTO PRODUCTION 3 Credit Hours**

(Slashed with JMC 50020) Develop skills in telling journalistic stories by producing multimedia news stories through research and planning; reporting using digital cameras and digital audio recorders; editing photos and audio. A GPA of 2.700 is required in the major.

**Prerequisite:** JMC 22001 or CCI 12001 with a minimum C- grade; and minimum 2.000 overall GPA; and journalism and mass communication major; and junior or senior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**JMC 40022 FILM AS COMMUNICATION 3 Credit Hours**

Study of the relationship of television and theatre films to the mass audience in terms of components and effects. A GPA of 2.700 is required in the major.

**Prerequisite:** JMC 20004 with a minimum B- grade or JMC 20005 with a minimum C- grade; and minimum 2.000 overall GPA.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**JMC 40023 NON-TRADITIONAL JOURNALISM 3 Credit Hours**  
 (Slashed with JMC 50023) The study of journalistic writing that goes beyond the inverted pyramid and traditional feature story and has topics traditionally not defined as news. Students will also work as part of a team on multi-part stories. A GPA of 2.700 is required in the major.  
**Prerequisite:** Minimum grade of C- (1.700) in JMC 26007; 2.000 overall GPA; and Journalism and Mass Communication (JMC) major and Junior or Senior standing.  
**Schedule Type:** Lecture  
**Contact Hours:** 3 lecture  
**Grade Mode:** Standard Letter

**JMC 40027 MANAGING MEDIA DIVERSITY 3 Credit Hours**  
 (Slashed with JMC 50027) Aspects of diversity and how it changes our environment with emphasis on the field of mass communication. A GPA of 2.700 is required in the major.  
**Prerequisite:** Minimum 2.000 overall GPA.  
**Schedule Type:** Lecture  
**Contact Hours:** 3 lecture  
**Grade Mode:** Standard Letter

**JMC 40030 COLLABORATIVE ONLINE PRODUCING 3 Credit Hours**  
 (Slashed with JMC 50030) The use of multimedia and interactive storytelling tools such as video, audio and graphics. Students work in teams to produce packages for online news sites and organizational videos. A GPA of 2.700 is required in the major.  
**Prerequisite:** JMC 40012 with a minimum C- grade; and minimum 2.000 overall GPA; and journalism and mass communication major; and special approval.  
**Schedule Type:** Combined Lecture and Lab  
**Contact Hours:** 2 lecture, 2 lab  
**Grade Mode:** Standard Letter

**JMC 40037 SCRIPTWRITING FOR VIDEO AND FILM 3 Credit Hours**  
 The emphasis of the course is on writing dramatic scripts for broadcast or motion pictures. The course also includes current perspectives on market needs. A GPA of 2.700 is required in the major.  
**Prerequisite:** JMC 23004 or JMC 30004 with a minimum C- grade; and minimum 2.000 overall GPA; and advertising, digital media production, journalism or public relations major.  
**Schedule Type:** Lecture  
**Contact Hours:** 3 lecture  
**Grade Mode:** Standard Letter

**JMC 40092 INTERNSHIP (ELR) 1-6 Credit Hours**  
 (Repeatable for a maximum of 6 credit hours) Experience in a professional setting under professional supervision in student's field of specialization. A GPA of 2.700 is required in the major.  
**Prerequisite:** Minimum 2.000 overall GPA; and special approval.  
**Schedule Type:** Practical Experience  
**Contact Hours:** 10-60 other  
**Grade Mode:** Satisfactory/Unsatisfactory-IP  
**Attributes:** Experiential Learning Requirement

**JMC 40095 SPECIAL TOPICS IN JOURNALISM AND MASS COMMUNICATION 1-3 Credit Hours**  
 (Repeatable for credit) Selected topics of special interest not covered in depth in existing courses; offered as resources permit.  
**Prerequisite:** None.  
**Schedule Type:** Lecture  
**Contact Hours:** 1-3 lecture  
**Grade Mode:** Standard Letter

**JMC 40096 INDIVIDUAL PROJECTS IN MASS COMMUNICATIONS 1-3 Credit Hours**  
 (Repeatable for credit) Individual research projects in mass communications. Letter grades and IP permissible. A GPA of 2.700 is required in the major.  
**Prerequisite:** Minimum 2.000 overall GPA; and junior or senior standing; and special approval.  
**Schedule Type:** Individual Investigation  
**Contact Hours:** 1-3 other  
**Grade Mode:** Standard Letter-IP

**JMC 40099 SENIOR HONORS PROJECT (ELR) 2-4 Credit Hours**  
 Thesis or other independent study project in mass communication. A GPA of 2.700 is required in the major.  
**Prerequisite:** Minimum 2.000 overall GPA; journalism and mass communication majors only; and admitted to the honors college.  
**Schedule Type:** Senior Project/Honors Thesis  
**Contact Hours:** 2-4 other  
**Grade Mode:** Standard Letter-IP  
**Attributes:** Experiential Learning Requirement

**JMC 40192 RADIO-TELEVISION INTERNSHIP (ELR) 1 Credit Hour**  
 (Repeatable once for credit) Experience, under professional supervision in a radio or television station or other industry, using electronic audio or video communications. A GPA of 2.700 is required in the major.  
**Prerequisite:** Minimum 2.000 overall GPA; and special approval.  
**Schedule Type:** Practical Experience  
**Contact Hours:** 1 other  
**Grade Mode:** Satisfactory/Unsatisfactory-IP  
**Attributes:** Experiential Learning Requirement

**JMC 40193 VARIABLE TITLE WORKSHOP IN JMC 1-3 Credit Hours**  
 (Repeatable for credit) (Slashed with JMC 50193) Workshop setting dealing with topics in mass communications. A GPA of 2.700 is required in the major.  
**Prerequisite:** Minimum 2.000 overall GPA; and special approval.  
**Schedule Type:** Workshop  
**Contact Hours:** 1-3 other  
**Grade Mode:** Satisfactory/Unsatisfactory

**JMC 40196 INDEPENDENT STUDY IN RADIO AND TELEVISION 1-3 Credit Hours**  
 (Repeatable for a total of 6 credit hours) Research and writing on topics approved by the students' advisers and study directors. A GPA of 2.700 is required in the major.  
**Prerequisite:** Minimum 2.000 overall GPA; and junior or senior standing; and special approval.  
**Schedule Type:** Individual Investigation  
**Contact Hours:** 1-3 other  
**Grade Mode:** Standard Letter-IP

**JMC 40201 PUBLIC RELATIONS PRACTICE: PUBLIC AFFAIRS 1 Credit Hour**  
 (Slashed with JMC 50201) Provides a basic understanding of the public affairs role in public relations. It specifically examines how external factors surrounding an organization can trigger disruption, opportunity, change, adaptation, and evolution. Students explore techniques for anticipating, managing, adapting, or changing those forces. Primary attention is paid to environmental scanning, issue and stakeholder identification and management, lobbying, advocacy, and ethical implications of public policy. A GPA of 2.700 is required in the major.  
**Prerequisite:** JMC 21005 or JMC 38002 with a minimum C- grade.  
**Schedule Type:** Lecture  
**Contact Hours:** 1 lecture  
**Grade Mode:** Standard Letter

**JMC 40202 PUBLIC RELATIONS PRACTICE: CRISIS COMMUNICATION 1 Credit Hour**

(Slashed with JMC 50202) Provides a basic understanding of the best practices of crisis planning, preparation, communication and management. The course will focus on the critical capabilities, team work and decision making skills required of public relations practitioners during periods of intense organizational turbulence, crisis, and reputational threat across numerous stakeholder groups, including internal, external, public, private and legislative audiences. A GPA of 2.700 is required in the major.

**Prerequisite:** A minimum C- grade in JMC 21005 or JMC 28001.

**Schedule Type:** Lecture

**Contact Hours:** 1 lecture

**Grade Mode:** Standard Letter

**JMC 40295 SELECTED TOPICS IN JOURNALISM AND MASS COMMUNICATION 3 Credit Hours**

(Repeatable for credit) (Slashed with JMC 50295) Selected topics of special interest not covered in depth in existing courses; offered as resources permit. A GPA of 2.700 is required in the major.

**Prerequisite:** Advertising, Digital Media Production, Journalism or Public Relations major or minor.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**JMC 41002 ADVANCED ADVERTISING COPYWRITING 3 Credit Hours**

Advanced copywriting projects in print advertising and corporate communications and execution of the entire print advertising campaigns. A GPA of 2.700 is required in the major.

**Prerequisite:** JMC 31002 and 31003 with a minimum C- grade; and minimum 2.000 overall GPA; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**JMC 41003 ADVERTISING ACCOUNT MANAGEMENT 3 Credit Hours**

An introduction to advertising account management including the functions of an account manager, skills required to be an account manager and how to effectively lead a team of professionals. A GPA of 2.700 is required in the major.

**Prerequisite:** JMC 31002 and JMC 31003 with a minimum C- grade; and minimum 2.000 overall GPA; and advertising, digital media production, fashion media, journalism, media literacy, photojournalism, public relations or visual journalism major or minor.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**JMC 41005 ADVERTISING CAMPAIGNS 3 Credit Hours**

Analysis of the planning, financing and execution of an advertising campaign through case study methods. A GPA of 2.700 is required in the major.

**Prerequisite:** JMC 31002 and 31003 with a minimum C- grade; and minimum 2.000 overall GPA; and advertising, digital media production, fashion media, journalism, media literacy, photojournalism, public relations or visual journalism major or minor.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**JMC 41075 POLITICAL ADVERTISING 3 Credit Hours**

Focuses on analyzing the impact of political advertising on key election cohorts. In this course, students will research and profile key demographic cohorts that will substantially impact the outcome of the election and analyze how current political advertising may impact each cohort. This course is a real-time study of key audience groups and in-market advertising and election tactics and as such its focus will change as the issues and population trends change from semester to semester. A 2.70 GPA is required in the major.

**Prerequisite:** JMC 20008 and JMC 21005 with a minimum C- grade; and minimum 2.000 overall GPA; and advertising major or minor.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**JMC 41080 ACTIVATION ADVERTISING 3 Credit Hours**

Activation advertising, or brand activation, is the activation of the consumer for a brand and driving consumer action, typically by getting consumers to experience the brand. In this course students will begin to understand the consumer path-to-purchase and when a consumer becomes a shopper. Using a variety of resources, students will build strategically sound activation programs based on a big idea and relevant consumer and shopper insights. A 2.70 GPA is required in the major.

**Prerequisite:** JMC 20008 and JMC 21005 with a minimum C- grade; and minimum 2.000 overall GPA; and advertising major or minor.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**JMC 41111 FASHION PUBLISHING 3 Credit Hours**

Introduction to 21st Century Fashion publishing. An overview of the evolution of fashion magazines in print and digital formats, magazine entrepreneurs, the editors role, branding, advertising, circulation, writing and production. A GPA of 2.700 is required in the major.

**Prerequisite:** ENTR 27056 or FDM 35280; and JMC 20005 or JMC 26001 or JMC 20004; and minimum 2.000 overall GPA; and fashion media minor.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**JMC 41150 GLOBAL ADVERTISING AND PUBLIC RELATIONS 3 Credit Hours**

Offers students the opportunity to learn about and engage in exploring issues related to advertising and public relations in various markets around the world. This course may involve travel to a destination market. A GPA of 2.700 is required in the major.

**Prerequisite:** Minimum 2.000 overall GPA; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**JMC 41192 PRACTICUM IN ADVERTISING AND PUBLIC RELATIONS (ELR) 3 Credit Hours**

Designed to provide opportunities for students to engage in applied public relations and advertising projects in collaboration with faculty. This can include such things as competitions and practical experiential learning exercises with on-campus organizations. A 2.700 GPA in the major is required.

**Prerequisite:** Special approval.

**Schedule Type:** Practical Experience

**Contact Hours:** 9 other

**Grade Mode:** Standard Letter

**Attributes:** Experiential Learning Requirement



**JMC 42001 SPORTS PHOTOGRAPHY 3 Credit Hours**

Photographing various college events, including action, portraiture and lighting in a variety of outdoor and indoor venues. Photo captioning, image transmission and archiving and ethics. A GPA of 2.700 is required in the major.

**Prerequisite:** JMC 22004 and JMC 32001 with a minimum C- grade; and minimum 2.000 overall GPA; and school of journalism and mass communication major or minor.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**JMC 42008 ADVANCED PHOTO TECHNIQUES 3 Credit Hours**

Discussion of contemporary photojournalists and issues. Production of photo documentary multimedia and illustrations appropriate to photojournalism. Senior portfolio review. A GPA of 2.700 is required in the major.

**Prerequisite:** JMC 22004 with a minimum C- grade; and minimum 2.000 overall GPA.

**Schedule Type:** Laboratory, Lecture

**Contact Hours:** 2 lecture, 2 lab

**Grade Mode:** Standard Letter

**JMC 42092 PRACTICUM IN PHOTOGRAPHY (ELR) 1-3 Credit Hours**

(Repeatable for a total of 10 hours) (Cross-listed with VCD 48092)

Individual or group investigation into student selected areas of photographic field. A GPA of 2.700 is required in the major.

**Prerequisite:** Minimum 2.000 overall GPA; and junior or senior standing; and special approval.

**Schedule Type:** Lecture, Practical Experience

**Contact Hours:** 1-3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Experiential Learning Requirement

**JMC 43035 ADVANCED TELEVISION NEWS PRODUCING 3 Credit Hours**

(Slashed with JMC 53035) Advanced understanding of how to produce news content for broadcast and the web. A GPA of 2.700 is required in the major.

**Prerequisite:** A minimum C- grade in JMC 46003.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**JMC 43036 RECORD PROMOTION 3 Credit Hours**

(Slashed with JMC 53036) Class operates as an independent record label to critique, select, promote, publicize and sell original recorded music. A GPA of 2.700 is required in the major.

**Prerequisite:** Minimum 2.000 overall GPA; and journalism and mass communication or communications studies major.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**JMC 43092 STUDENT MEDIA PRACTICUM IN JOURNALISM (ELR) 1-3 Credit Hours**

(Repeatable for a maximum of 3 credit hours) Performance of assigned activities in student media under student media supervision. A GPA of 2.700 is required in the major.

**Prerequisite:** JMC 20001 or JMC 20003 with a minimum C- grade; and minimum 2.000 overall GPA; and special approval.

**Schedule Type:** Practical Experience

**Contact Hours:** 3-9 other

**Grade Mode:** Standard Letter

**Attributes:** Experiential Learning Requirement

**JMC 44042 REMOTE TELEVISION 3 Credit Hours**

The study and broadcast of remote events including live sports and other non-scripted shows. A GPA of 2.700 is required in the major.

**Prerequisite:** JMC 20011 with a C- grade; and a minimum C- grade in two of the following courses JMC 30036, JMC 33033 or JMC 33043; and minimum 2.000 overall GPA; and school of journalism and mass communication major.

**Schedule Type:** Laboratory, Lecture, Combined Lecture and Lab

**Contact Hours:** 2 lecture, 2 lab

**Grade Mode:** Standard Letter-IP

**JMC 44043 SPORTS FIELD PRODUCTION 3 Credit Hours**

Video shooting and editing of sports packages and short documentaries. This includes player and coach profiles, highlights and lead-ins. A GPA of 2.700 is required in the major.

**Prerequisite:** JMC 23030 and 23031 with a C- grade; and JMC 30004 with a C- grade; and minimum 2.000 overall GPA; and journalism and mass communication major.

**Corequisite:** JMC 44042.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 2 lecture, 2 lab

**Grade Mode:** Standard Letter-IP

**JMC 44050 POST PRODUCTION SOUND 3 Credit Hours**

(Slashed with JMC 54050) Creating post production sound for visual productions including digital cinema, television, and video games. A GPA of 2.700 is required in the major.

**Prerequisite:** JMC 33033 with a minimum C- grade; and JMC 30036 or JMC 33043 with a minimum C- grade; and minimum 2.000 overall GPA; and major within the School of Journalism and Mass Communication.

**Schedule Type:** Laboratory, Lecture, Combined Lecture and Lab

**Contact Hours:** 1 lecture, 4 lab

**Grade Mode:** Standard Letter

**JMC 44055 SUAS AERIAL CINEMATOGRAPHY 3 Credit Hours**

(Slashed with JMC 54055) Prepares interdisciplinary non-aeronautics majors to operate Small Unmanned Aircraft Systems (sUAS) safely and ethically in news gathering, research, cinematography and applied digital sciences.

**Prerequisite:** A minimum C- grade in both JMC 20011 and JMC 23004; and JMC 30036, JMC 33033 or JMC 33043.

**Schedule Type:** Laboratory, Lecture

**Contact Hours:** 1 lecture, 4 lab

**Grade Mode:** Standard Letter

**JMC 44065 MOBILE MULTIMEDIA 3 Credit Hours**

Developing multimedia content for mobile platforms such as smart phones, tablets or other networked mobile devices.

**Prerequisite:** Minimum C- grade in JMC 20006 or JMC 20009 or EMAT 10310.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**JMC 45000 TELEVISION SPORTS GRAPHICS PRODUCTION 3 Credit Hours**

Techniques in creating and preparing TV and video graphics for live sports events. A GPA of 2.700 is required in the major.

**Prerequisite:** JMC 23030 and 23031 with a C- grade; and JMC 30004 as a pre- or co-requisite with a C- grade; and minimum 2.000 overall GPA; and journalism and mass communication major.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter-IP



**JMC 45001 ADVANCED LIGHTING FOR DIGITAL FILM AND TELEVISION 3 Credit Hours**

(Slashed with JMC 55001) Introduction to theory and technique of lighting for video production. Course includes critical analysis of video lighting situations, the various tools available to light various production locations including interviews and multi-camera narrative scenes. A GPA of 2.700 is required in the major.

**Prerequisite:** JMC 20011 with a minimum C- grade; and two from the following courses JMC 30036, JMC 33033 or JMC 33043; and advertising, digital media production, journalism or public relations major.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**JMC 45005 HISTORICAL DOCUMENTARY PRODUCTION 3 Credit Hours**

(Slashed with JMC 55005) Chronicles the evolution of the historical television documentary and demonstrates the step-by-step production process required to create such a program. Students research and assemble a documentary with an overall appreciation of this genre's purpose in both the television industry and the popular culture. A GPA of 2.700 is required in the major.

**Prerequisite:** Minimum 2.000 overall GPA.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**JMC 45006 PRODUCING AND DIRECTING LIVE TELEVISION 3 Credit Hours**

Class examines the steps to produce and direct live television programming. This includes scripted shows such as news, entertainment, and talk shows as well as unscripted shows such as live sports and remote event productions. For homework students are required to work regular evenings as a producer and or director for TV2. A GPA of 2.700 is required in the major.

**Prerequisite:** JMC 33042 and JMC 44042 with a minimum C- grade; and minimum 2.000 overall GPA; and advertising, digital media production, fashion media, journalism, media literacy, photojournalism, public relations or visual journalism major.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**JMC 45007 PRODUCING FOR PICTURE 3 Credit Hours**

A deep and technical look at filmmaking from business, legal, and logistical perspectives. A GPA of 2.700 is required in the major.

**Prerequisite:** JMC 23140 with a minimum C- grade or JMC 30036 and JMC 33043 with a minimum C- grade; and minimum 2.000 overall GPA; and journalism and mass communication major.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**JMC 45010 FEATURE FILM PREPRODUCTION 3 Credit Hours**

(Slashed with JMC 55010) Gives students practical, hands-on experience in the preproduction of a feature length digital film. Students work on script revising, budgeting, location scouting, casting, developing a script breakdown and developing a daily production schedule for the film. A GPA of 2.700 is required in the major.

**Prerequisite:** JMC 20011 with a minimum C- grade; and minimum 2.000 overall GPA; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**JMC 45011 FEATURE FILM PRODUCTION 6 Credit Hours**

(Slashed with JMC 55011) Provides students with a practical, hands-on experience in the production process of shooting a feature length digital film. Students work on both the organizational aspects as well as the technical aspects of production. This includes production management, craft services, daily call sheets, directing, lighting, cinematography and location sound recording. A GPA of 2.700 is required in the major.

**Prerequisite:** JMC 20011 with a C- grade; and minimum 2.000 overall GPA; and special approval.

**Schedule Type:** Laboratory, Lecture

**Contact Hours:** 2 lecture, 8 lab

**Grade Mode:** Standard Letter

**JMC 45013 FEATURE FILM POST PRODUCTION 3 Credit Hours**

(Slashed with JMC 55013) Advanced video editing course designed to offer students the experience in the postproduction and finishing of a feature length digital narrative film. Students will refine their technical and aesthetic skills through a combination of practice, reading, presenting, viewing and discussion. Students are assigned specific scenes that they are to complete from string out and assembly cut to fine cut and picture lock. Students then work on sound effects, visual effects, titles or color correction. A GPA of 2.700 is required in the major.

**Prerequisite:** JMC 20011 with a minimum C- grade; and special approval.

**Schedule Type:** Laboratory, Lecture

**Contact Hours:** 2 lecture, 2 lab

**Grade Mode:** Standard Letter

**JMC 45020 AVID EDITOR CERTIFICATION 3 Credit Hours**

(Slashed with JMC 55020) Prepares students to take the official Avid Media Composer MC 101 certification exam. A GPA of 2.700 is required in the major. Students who pass the exam will be certified as Avid Video editors.

**Prerequisite:** JMC 30036 with a minimum C- grade; and minimum 2.000 overall GPA; and advertising, digital media production, fashion media, journalism, media literacy, photojournalism, public relations or visual journalism major or minor.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**JMC 46000 NEWSPAPER DESIGN 3 Credit Hours**

(Slashed with JMC 56000) Design of newspapers from small inside pages to elaborate feature pages. News judgment. Basic information graphics and photo editing.

**Prerequisite:** Minimum C- grade in JMC 26001, JMC 20006 and VCD 37000; and minimum 2.750 overall GPA.

**Schedule Type:** Laboratory, Lecture

**Contact Hours:** 3 lecture, 0 lab

**Grade Mode:** Standard Letter

**JMC 46001 INFORMATION GRAPHICS 3 Credit Hours**

(Slashed with JMC 5600) (Cross-listed with VCD 43007) Introduction to shapes, color type and combinations of these for computer designed news graphics maps charts graphs and diagrams. A GPA of 2.700 is required in the major.

**Prerequisite:** JMC 26001 and COMM 21000 with a minimum C- grade; and advertising, digital media production, fashion media, journalism, media literacy, photojournalism, public relations or visual journalism major or minor.

**Schedule Type:** Laboratory, Lecture, Combined Lecture and Lab

**Contact Hours:** 1 lecture, 4 lab

**Grade Mode:** Standard Letter

**JMC 46003 PRODUCING TELEVISION NEWS 3 Credit Hours**

(Slashed with JMC 56003) Introduction to the theory and practice of producing content for TV news and public affairs programs. Emphasis is placed on understanding news philosophies, storytelling story selection and rundown placement. A GPA of 2.700 is required in the major.

**Prerequisite:** JMC 26008 with a minimum C- grade; and minimum 2.000 overall GPA; and journalism and mass communication major.

**Schedule Type:** Laboratory, Lecture

**Contact Hours:** 2 lecture, 1 lab

**Grade Mode:** Standard Letter

**JMC 46006 OPINION WRITING 3 Credit Hours**

(Slashed with JMC 56006) Instruction and practice in producing columns and editorials for a variety of audiences. Emphasis on research and reporting to produce thoughtful opinion pieces.

**Prerequisite:** JMC 26001.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**JMC 46007 INVESTIGATIVE REPORTING 3 Credit Hours**

(Slashed with JMC 56007) Techniques involved in researching, interviewing and reporting investigative news articles and analyses. A GPA of 2.700 is required in the major.

**Prerequisite:** JMC 26007 with a C- grade or JMC 26008 with a C- grade; and minimum 2.000 overall GPA; and journalism and mass communication major.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**JMC 46009 REPORTING PUBLIC POLICY 3 Credit Hours**

(Slashed with JMC 56009) Instruction and practice in reporting all areas of public affairs, including government and the courts. Use of precision journalism techniques. A GPA of 2.700 is required in the major.

**Prerequisite:** JMC 26007 or 26008 with a C- grade; and minimum 2.000 overall GPA; and journalism and mass communication major.

**Schedule Type:** Laboratory, Lecture, Combined Lecture and Lab

**Contact Hours:** 1 lecture, 4 lab

**Grade Mode:** Standard Letter

**JMC 46016 BUSINESS OF PUBLISHING 3 Credit Hours**

(Slashed with JMC 56016) Overview of publishing in digital and print formats, media entrepreneurship, role of editorial, advertising, circulation, production, branding and social media. A GPA of 2.700 is required in the major.

**Prerequisite:** COMM 21000, JMC 26001 and ENTR 27056 with a minimum C- grade; and minimum 2.000 overall GPA; and journalism and mass communication major; and junior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**JMC 46020 MAGAZINE DESIGN 3 Credit Hours**

(Slashed with JMC 56020) Marriage of words and visuals for designing magazine layouts and covers in desktop publishing. A GPA of 2.700 is required in the major.

**Prerequisite:** A minimum C- grade in JMC 26001.

**Schedule Type:** Laboratory, Lecture, Combined Lecture and Lab

**Contact Hours:** 1 lecture, 4 lab

**Grade Mode:** Standard Letter

**JMC 46021 ADVANCED MAGAZINE WRITING 3 Credit Hours**

(Slashed with JMC 56021) Research, interviewing writing and marketing of major magazine articles. Also editing techniques for magazines. A GPA of 2.700 is required in the major.

**Prerequisite:** JMC 36005 and 36018 with a minimum C- grade; and minimum 2.000 overall GPA.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**JMC 46052 ADVANCED BROADCAST REPORTING 3 Credit Hours**

(Slashed with JMC 56052) Advanced study of reporting news stories, newsroom operations, editing and producing broadcast news programs. Advanced projects in broadcast news. A GPA of 2.700 is required in the major.

**Prerequisite:** JMC 26008 with a C- grade; and minimum 2.000 overall GPA.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**JMC 46054 BROADCAST DOCUMENTARY 3 Credit Hours**

(Slashed with JMC 56054) Development of documentary form for radio and television. Analysis and production of documentaries. Utilization of audio and video recording and editing. A GPA of 2.700 is required in the major.

**Prerequisite:** JMC 26008 or two of the following: JMC 33033, JMC 33034, JMC 33042, JMC 33043 with a minimum C- grade; and minimum 2.000 overall GPA.

**Schedule Type:** Laboratory, Lecture

**Contact Hours:** 2 lecture, 2 lab

**Grade Mode:** Standard Letter

**JMC 46055 DOCUMENTARY AND ENTREPRENEURIAL PHOTOGRAPHY 3 Credit Hours**

Exploring techniques that allow students desiring to make a difference in the world with their visual story-telling skills and make a living. Students work with local and regional non-profits and non-governmental agencies to develop photo reports and increase visibility and understanding with still and multimedia. A GPA of 2.700 is required in the major.

**Prerequisite:** JMC 32001, JMC 32005 and ENTR 27056 with a minimum C- grade; and minimum 2.000 overall GPA; and school of journalism and mass communication major or minor.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**JMC 46057 MOTION GRAPHICS FOR VIDEO EDITING 3 Credit Hours**

(Slashed with JMC 56057) Covers the creation of motion graphics for video editing from the perspective of a professional editor. Students learn basic video effects such as digital matte creation and layered graphics for video productions. Students also gain a basic understanding of how to convert and compress video files for various deliverable formats. Adobe After Effects is the industry standard software application for creating motion graphics and will be used extensively in the course. A GPA of 2.700 is required in the major.

**Prerequisite:** JMC 20011 with a minimum C- grade; and a minimum C- grade in two of the following courses JMC 30036, JMC 33033 or JMC 33043; and minimum 2.000 overall GPA; and advertising, digital media production, journalism or public relations major.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**JMC 46091 NEW YORK MEDIA SEMINAR 3 Credit Hours**

Introduction of students to the New York media, the thinking of industry professionals and the job opportunities in the city. Students attend presentations by media professionals and seminars to discuss media based in New York City. A GPA of 2.700 is required in the major.

**Prerequisite:** Minimum 2.000 overall GPA; and sophomore, junior or senior standing in the college of communication and information; and special approval.

**Schedule Type:** Seminar

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**JMC 46395 SPECIAL TOPICS IN JOURNALISM PRACTICE 3 Credit Hours**

(Repeatable three times for credit) Special topics in journalism practice.

**Prerequisite:** Special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**JMC 47003 TEACHING HIGH SCHOOL JOURNALISM 3 Credit Hours**

Methods and materials for teaching journalism in high school.

**Prerequisite:** Junior or senior standing; and special approval of instructor.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**JMC 48001 MEDIA RELATIONS AND PUBLICITY (WIC) 3 Credit Hours**

(Slashed with JMC 58001) Planning and preparation of materials for use by the news media, both on paper and online. The course explores the media relations function along with the uses and limitations of mass media in public relations practice. A GPA of 2.700 is required in the major.

**Prerequisite:** JMC 26001; and JMC 26007 or 26008; and JMC 38002 all with a C- grade; and minimum 2.000 overall GPA; and journalism and mass communication major.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Writing Intensive Course

**JMC 48002 PUBLIC RELATIONS TACTICS 3 Credit Hours**

(Slashed with JMC 58002) Planning and preparation of face-to-face public relations tactics, including spokesperson training for on- and off-camera appearances, special event planning, speeches and presentations with visual support and other applications of 'writing for the ear.' A minimum 2.700 major GPA is required.

**Prerequisite:** JMC 26001 and JMC 38002 with a minimum C grade; and minimum 2.000 overall GPA.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**JMC 48003 DIGITAL PUBLIC RELATIONS 3 Credit Hours**

(Slashed with JMC 58003) Explores fundamentals of web site planning and design and provides hands-on skills development using the full range of cybermedia techniques. Includes emphasis on writing for online audiences. A GPA of 2.700 is required in the major.

**Prerequisite:** JMC 20008, JMC 26001, JMC 26007 or JMC 26008, JMC 28001, JMC 31007 and JMC 38002 with minimum C- grades; and 2.000 overall GPA.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**JMC 48006 PUBLIC RELATIONS PUBLICATIONS 3 Credit Hours**

(Slashed with JMC 58006 ) Planning, writing and design of organizational publications including newsletters brochures flyers promotional mailers and web sites. Course also explores the print production process. A GPA of 2.700 is required in the major.

**Prerequisite:** JMC 26001 with a C- grade; and public relations major or minor.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**JMC 48091 SEMINAR: PUBLIC RELATIONS CAMPAIGNS 3 Credit Hours**

(Repeatable for credit) This capstone course in the public relations major requires student teams to combine research, planning and execution into a single public relations campaign developed for a real world organization. A GPA of 2.700 is required in the major.

**Prerequisite:** JMC 26007 or 26008; and JMC 38002; and three of the four--JMC 48001 and 48002 and 48003 and 48006 all with a C- grade; and minimum 2.000 overall GPA.

**Schedule Type:** Seminar

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**JMC 49005 MUSIC VIDEO PRODUCTION 3 Credit Hours**

(Slashed with JMC 59005) Teaches the process of producing and directing a music video. It covers the history of music videos and how some become movies as well as writing a script, storyboarding, working with rough cuts and shooting a music video. Students also learn how to create and pitch proposals.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**JMC 49021 CORPORATE VIDEO 3 Credit Hours**

(Slashed with JMC 59021) The use of video in corporate and organizational environments. Emphasis is placed on the structure and function of the medium within each environment. A GPA of 2.700 is required in the major.

**Prerequisite:** Two of the following: JMC 33033 and 33042 and 33043 with a minimum C- grade; and minimum 2.000 overall GPA; and journalism and mass communication major.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**JMC 49099 PRODUCTION II (ELR) 3 Credit Hours**

Facilitates the completion of a digital film or television project. A GPA of 2.700 is required in the major.

**Prerequisite:** A minimum C- grade in either JMC 23140 or JMC 45007; and senior standing.

**Schedule Type:** Laboratory, Lecture, Project or Capstone

**Contact Hours:** 1 lecture, 4 lab

**Grade Mode:** Standard Letter-IP

**Attributes:** Experiential Learning Requirement

**JMC 50002 REPORTING FOR MASS MEDIA 3 Credit Hours**  
 (Slashed with JMC 40002) Theory and practice in newswriting and reporting; news values and news judgment; lead and story development; techniques of gathering information and dealing with sources of news; writing for deadline. Hours do not count toward degree.  
**Prerequisite:** Graduate standing; and special approval.  
**Schedule Type:** Lecture  
**Contact Hours:** 3 lecture  
**Grade Mode:** Standard Letter

**JMC 50003 EDITING FOR MASS MEDIA 3 Credit Hours**  
 Theory and practice in copy editing, headline writing and editing photographs and information graphics for print and on-line publications. Hours do not count toward degree.  
**Prerequisite:** JMC 50002; and graduate standing.  
**Schedule Type:** Lecture  
**Contact Hours:** 3 lecture  
**Grade Mode:** Standard Letter

**JMC 50004 COMPUTER-ASSISTED REPORTING 3 Credit Hours**  
 Computer analysis of large data sets focusing on government, court, police records, for preparation of news stories, basics of on-line searching; software and databases.  
**Prerequisite:** JMC 50002; and graduate standing.  
**Schedule Type:** Laboratory, Lecture  
**Contact Hours:** 3 lecture, 0 lab  
**Grade Mode:** Standard Letter

**JMC 50006 LAW OF MASS COMMUNICATION 3 Credit Hours**  
 Libel and slander; privacy, copyright, obscenity; regulation of advertising and broadcasting; antitrust law and mass media; legal problems reporting courts, legislatures; taxation, licensing.  
**Prerequisite:** Graduate standing.  
**Schedule Type:** Lecture  
**Contact Hours:** 3 lecture  
**Grade Mode:** Standard Letter

**JMC 50007 REVIEWING THE ARTS 2 Credit Hours**  
 Reviewing and criticism of performing, visual and literary arts. Emphasis on books, film, TV and theater.  
**Prerequisite:** Graduate standing; and special approval.  
**Schedule Type:** Lecture  
**Contact Hours:** 2 lecture  
**Grade Mode:** Standard Letter

**JMC 50012 ONLINE JOURNALISM 3 Credit Hours**  
 Study and evaluation of online news and news sites; reporting and writing for online news media; design, production and maintenance of an online news site; ethical, legal and economic issues related to online news.  
**Prerequisite:** JMC 50002; and graduate standing.  
**Schedule Type:** Lecture  
**Contact Hours:** 3 lecture  
**Grade Mode:** Standard Letter

**JMC 50013 TELEVISION SPORTS PRODUCTION 3 Credit Hours**  
 A comprehensive study of the production of live action television sports coverage.  
**Prerequisite:** Journalism and mass communication major; and graduate standing.  
**Schedule Type:** Lecture  
**Contact Hours:** 3 lecture  
**Grade Mode:** Standard Letter

**JMC 50015 MEDIA MARKETPLACE 3 Credit Hours**  
 A study of administrative problems, methods, procedures in the management of media corporations.  
**Prerequisite:** Graduate standing.  
**Schedule Type:** Lecture  
**Contact Hours:** 3 lecture  
**Grade Mode:** Standard Letter

**JMC 50016 LAW FOR ADVERTISING AND PUBLIC RELATIONS 3 Credit Hours**  
 Regulation of advertising and public relations; first amendment; libel and privacy; legal problems of new media; research in persuasive media.  
**Prerequisite:** Graduate standing; and special approval.  
**Schedule Type:** Lecture  
**Contact Hours:** 3 lecture  
**Grade Mode:** Standard Letter

**JMC 50017 MEDIA ENTERPRISE 3 Credit Hours**  
 (Slashed with JMC 40017) Explores methods to build and sustain organizations that market and monetize multimedia content to targeted audiences through appropriate distribution streams. Through case studies, examination of evolving best practices in media organizations and elsewhere, students will study and apply enterprise thinking. Other CCI majors outside of JMC can enroll in the course with special approval from the JMC graduate coordinator.  
**Prerequisite:** Journalism and mass communication major; and graduate standing.  
**Schedule Type:** Lecture  
**Contact Hours:** 3 lecture  
**Grade Mode:** Standard Letter

**JMC 50020 AUDIO AND STILL PHOTO PRODUCTION 3 Credit Hours**  
 Develop skills in telling journalistic stories by producing multimedia news stories through research and planning; reporting using digital cameras and digital audio recorders; editing photos and audio.  
**Prerequisite:** Journalism and mass communication major; and graduate standing.  
**Schedule Type:** Lecture  
**Contact Hours:** 3 lecture  
**Grade Mode:** Standard Letter

**JMC 50023 NON-TRADITIONAL JOURNALISM 3 Credit Hours**  
 The study of journalistic writing that goes beyond the inverted pyramid and traditional feature story and has topics traditionally not defined as news. Students will also work as part of a team on multi-part stories.  
**Prerequisite:** Journalism and mass communication major; and graduate standing.  
**Schedule Type:** Lecture  
**Contact Hours:** 3 lecture  
**Grade Mode:** Standard Letter

**JMC 50027 MANAGING MEDIA DIVERSITY 3 Credit Hours**  
 Aspects of diversity and how it changes our environment with emphasis on the field of mass communication.  
**Prerequisite:** Graduate standing.  
**Schedule Type:** Lecture  
**Contact Hours:** 3 lecture  
**Grade Mode:** Standard Letter



**JMC 50030 COLLABORATIVE ONLINE PRODUCING 3 Credit Hours**

The use of multimedia and interactive storytelling rules such as video, audio and graphics. Students work in teams to produce packages for online news sites and organizational videos.

**Prerequisite:** Journalism and mass communication major; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture, 2 lab

**Grade Mode:** Standard Letter

**JMC 50037 SCRIPTWRITING FOR VIDEO AND FILM 3 Credit Hours**

The emphasis of the course is on writing dramatic scripts for broadcast or motion pictures. The course also includes current perspectives on market needs.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**JMC 50193 VARIABLE TITLE WORKSHOP IN JOURNALISM AND MASS COMMUNICATION 1-3 Credit Hours**

(Repeatable for credit) Intensive study of professional issues and problems in various areas of mass communication, utilizing the expertise of faculty and professionals in the field.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Workshop

**Contact Hours:** 1-3 other

**Grade Mode:** Satisfactory/Unsatisfactory

**JMC 50201 PUBLIC RELATIONS PRACTICE: PUBLIC AFFAIRS 1 Credit Hour**

(Slashed with JMC 40201) Provides a basic understanding of the public affairs role in public relations. It specifically examines how external factors surrounding an organization can trigger disruption, opportunity, change, adaptation, and evolution. Students explore techniques for anticipating, managing, adapting, or changing those forces. Primary attention is paid to environmental scanning, issue and stakeholder identification and management, lobbying, advocacy, and ethical implications of public policy.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 1 lecture

**Grade Mode:** Standard Letter

**JMC 50202 PUBLIC RELATIONS PRACTICE: CRISIS COMMUNICATION 1 Credit Hour**

(Slashed with JMC 40202) Provides a basic understanding of the best practices of crisis planning, preparation, communication and management. The course will focus on the critical capabilities, team work and decision making skills required of public relations practitioners during periods of intense organizational turbulence, crisis, and reputational threat across numerous stakeholder groups, including internal, external, public, private and legislative audiences.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 1 lecture

**Grade Mode:** Standard Letter

**JMC 50295 SELECTED TOPICS IN JOURNALISM AND MASS COMMUNICATION 3 Credit Hours**

(Repeatable for credit) (Slashed with JMC 40295) Selected topics of special interest not covered in depth in existing courses; offered as resources permit.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**JMC 53035 ADVANCED TELEVISION NEWS PRODUCING 3 Credit Hours**

Advanced understanding of how to produce news content for broadcast and the web.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**JMC 53036 RECORD PROMOTION 3 Credit Hours**

(Slashed with JMC 43036) Class operates as an independent record label to critique, select, promote, publicize and seal original recorded music.

**Prerequisite:** Journalism and mass communication major; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**JMC 53042 STUDIO TELEVISION 3 Credit Hours**

Study of all positions of a live television program including technical directing, floor directing, graphics, digital playback, and audio engineering. Two hours lecture and two hours lab.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Laboratory, Lecture

**Contact Hours:** 2 lecture, 2 lab

**Grade Mode:** Standard Letter

**JMC 54050 POST PRODUCTION SOUND 3 Credit Hours**

(Slashed with JMC 44050) Creating post production sound for visual productions including digital cinema and television.

**Prerequisite:** Journalism and mass communication major; and graduate standing; and special approval.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 2 lecture, 2 lab

**Grade Mode:** Standard Letter

**JMC 54055 SUAS AERIAL CINEMATOGRAPHY 3 Credit Hours**

(Slashed with JMC 44055) Prepares interdisciplinary non-aeronautics majors to operate Small Unmanned Aircraft Systems (sUAS) safely and ethically in news gathering, research, cinematography and applied digital sciences.

**Prerequisite:** Graduate standing.

**Schedule Type:** Laboratory, Lecture

**Contact Hours:** 1 lecture, 4 lab

**Grade Mode:** Standard Letter



**JMC 55001 ADV LIGHTING DIGITAL FILM/TV 3 Credit Hours**  
 (Slashed with JMC 45001) Introduction to theory and technique of lighting for video production. Includes critical analysis of video lighting situations, the various tools available to light various production locations including interviews and multi-camera narrative scenes.  
**Prerequisite:** Journalism and mass communication major; and graduate standing; and special approval.  
**Schedule Type:** Lecture  
**Contact Hours:** 3 lecture  
**Grade Mode:** Standard Letter

**JMC 55005 HISTORICAL DOCUMENTARY PRODUCTION 3 Credit Hours**  
 Chronicles the evolution of the historical television documentary and demonstrates the step-by-step production process required to create such a program. Students research and assemble a documentary with an overall appreciation of this genre's purpose in both the television industry and the popular culture.  
**Prerequisite:** Graduate standing.  
**Schedule Type:** Lecture  
**Contact Hours:** 3 lecture  
**Grade Mode:** Standard Letter

**JMC 55010 FEATURE FILM PREPRODUCTION 3 Credit Hours**  
 (Slashed with JMC 45010) Gives students practical, hands-on experience in the preproduction of a feature length digital film. Students work on script revising, budgeting, location scouting, casting, developing a script breakdown, and developing a daily production schedule for the film. Graduate students are expected to take a leadership position in the preproduction of the film.  
**Prerequisite:** Journalism and mass communication major; and graduate standing; and special approval.  
**Schedule Type:** Lecture  
**Contact Hours:** 3 lecture  
**Grade Mode:** Standard Letter

**JMC 55011 FEATURE FILM PRODUCTION 6 Credit Hours**  
 (Slashed with JMC 45011) Provides students with a practical, hands-on experience in the production process of shooting a feature length digital film. Students will study the theory of film making and work on both the organizational and managerial aspects as well as the technical aspects of production. This includes production management, craft services, daily call sheets, directing, lighting, cinematography and location sound recording.  
**Prerequisite:** Graduate standing; and special approval.  
**Schedule Type:** Laboratory, Lecture  
**Contact Hours:** 2 lecture, 8 lab  
**Grade Mode:** Standard Letter

**JMC 55013 FEATURE FILM POST PRODUCTION 3 Credit Hours**  
 (Slashed with JMC 45013) Advanced Video editing course designed to offer students the experience in the postproduction and finishing of a feature length digital narrative film. The students will refine their technical and aesthetic skills through a combination of practice, reading, presenting, viewing and discussion. Students are assigned specific scenes that they are to complete from string out and assembly cut to fine cut and picture lock. Students work on sound effects, visual effects, titles or color correction. In addition, graduate students assume a leadership position.  
**Prerequisite:** Journalism and mass communication major; and graduate standing; and special approval.  
**Schedule Type:** Laboratory, Lecture  
**Contact Hours:** 2 lecture, 2 lab  
**Grade Mode:** Standard Letter

**JMC 55020 AVID EDITOR CERTIFICATION 3 Credit Hours**  
 Prepares students to take the official Avid Media Composer MC 101 certification exam. Students who pass the exam will be certified as Avid video editors.  
**Prerequisite:** Journalism and mass communication major; and graduate standing; and special approval.  
**Schedule Type:** Lecture  
**Contact Hours:** 3 lecture  
**Grade Mode:** Standard Letter

**JMC 55051 REPORTING BROADCAST NEWS 3 Credit Hours**  
 Gathering and preparing broadcast news, with emphasis on unique style and presentation methods of broadcast media. Use of both audio and video recorders and editing equipment.  
**Prerequisite:** JMC 50002; and graduate standing.  
**Schedule Type:** Lecture  
**Contact Hours:** 3 lecture  
**Grade Mode:** Standard Letter

**JMC 56000 NEWSPAPER DESIGN 3 Credit Hours**  
 Design of newspapers from small inside pages to elaborate feature pages. News judgment. Basic information graphics and photo editing.  
**Prerequisite:** JMC 50003; and graduate standing.  
**Schedule Type:** Laboratory, Lecture  
**Contact Hours:** 3 lecture, 0 lab  
**Grade Mode:** Standard Letter

**JMC 56001 INFORMATION GRAPHICS 3 Credit Hours**  
 Introduction to shapes, color, type and combinations of these for computer-designed news graphics: maps, charts, graphs and diagrams.  
**Prerequisite:** Graduate standing; and special approval.  
**Schedule Type:** Laboratory, Lecture, Combined Lecture and Lab  
**Contact Hours:** 1 lecture, 4 lab  
**Grade Mode:** Standard Letter

**JMC 56003 PRODUCING TELEVISION NEWS 3 Credit Hours**  
 (Slashed with JMC 46003) Knowledge of the theory and practice of producing content for TV news and public affairs programs. Emphasis is placed on understanding news philosophies, storytelling story selection and rundown placement.  
**Prerequisite:** JMC 55051; and journalism and mass communication major; and graduate standing.  
**Schedule Type:** Laboratory, Lecture  
**Contact Hours:** 2 lecture, 1 lab  
**Grade Mode:** Standard Letter

**JMC 56006 OPINION WRITING 3 Credit Hours**  
 (Slashed with JMC 56006) Instruction and practice in producing columns and editorials for a variety of audiences. Emphasis on research and reporting to produce thoughtful opinion pieces.  
**Prerequisite:** JMC 66011; and graduate standing.  
**Schedule Type:** Lecture  
**Contact Hours:** 3 lecture  
**Grade Mode:** Standard Letter

**JMC 56007 INVESTIGATIVE REPORTING 3 Credit Hours**  
 (Slashed with JMC 46007) Techniques involved in researching, interviewing and reporting investigative news articles and analyses.  
**Prerequisite:** JMC 50002; and graduate standing.  
**Schedule Type:** Lecture  
**Contact Hours:** 3 lecture  
**Grade Mode:** Standard Letter

**JMC 56009 REPORTING PUBLIC POLICY 3 Credit Hours**

Instruction and practice in reporting all areas of public affairs, including government and the courts. Use of precision journalism techniques.

**Prerequisite:** JMC 50002; and graduate standing.

**Schedule Type:** Laboratory, Lecture, Combined Lecture and Lab

**Contact Hours:** 1 lecture, 4 lab

**Grade Mode:** Standard Letter

**JMC 56016 BUSINESS OF PUBLISHING 3 Credit Hours**

(Slashed with JMC 46016) Overview of publishing in digital and print formats, media entrepreneurship, role of editorial, advertising, circulation, production, branding and social media.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**JMC 56018 FEATURE WRITING 3 Credit Hours**

Researching, writing and placement of feature stories in publications.

**Prerequisite:** JMC 50002; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**JMC 56020 MAGAZINE DESIGN 3 Credit Hours**

Marriage of words and visuals for designing magazine layouts and covers in desktop publishing.

**Prerequisite:** JMC 50002; JMC 50003; JMC 56016; and graduate standing.

**Schedule Type:** Laboratory, Lecture, Combined Lecture and Lab

**Contact Hours:** 1 lecture, 4 lab

**Grade Mode:** Standard Letter

**JMC 56021 ADVANCED MAGAZINE WRITING 3 Credit Hours**

Research, interviewing, writing and marketing of major magazine articles. Also editing techniques for magazines.

**Prerequisite:** JMC 50002 and JMC 50003; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**JMC 56052 ADVANCED BROADCAST REPORTING 3 Credit Hours**

(Slashed with JMC 46052) Advanced study of reporting news stories, newsroom operations editing and producing broadcast news programs. Advanced projects in broadcast news.

**Prerequisite:** JMC 55051 or JMC 56054; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**JMC 56054 BROADCAST DOCUMENTARY 3 Credit Hours**

Development of the documentary form for radio/TV; analysis, production of radio/ TV documentary; utilization of audio/video recording/editing.

**Prerequisite:** JMC 55051.

**Schedule Type:** Laboratory, Lecture

**Contact Hours:** 3 lecture, 0 lab

**Grade Mode:** Standard Letter

**JMC 56057 MOTION GRAPHICS FOR VIDEO EDITING 3 Credit Hours**

Covers the creation of motion graphics for video editing from the perspective of a professional editor. Students learn basic video effects such as digital matte creation and layered graphics for video productions. Students also gain a basic understanding of how to covert and compress video files for various deliverable formats. Adobe After Effects is the industry standard software application for creating motion graphics and will be used extensively in this course.

**Prerequisite:** Journalism and mass communication major; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**JMC 56091 NEW YORK MEDIA SEMINAR 3 Credit Hours**

Introduction of students to the New York media, the thinking of industry professionals and the job opportunities in the city. Students will attend presentations by media professionals and seminars to discuss media based in New York City.

**Prerequisite:** Graduate standing in the college of communication and information.

**Schedule Type:** Seminar

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**JMC 57003 TEACHING HIGH SCHOOL JOURNALISM 3 Credit Hours**

Methods and materials for teaching journalism in high school.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**JMC 58001 MEDIA RELATIONS AND PUBLICITY 3 Credit Hours**

Planning and preparation of materials for use by news media, both on paper and Online. Analysis of media relations function and media relations strategies. Uses and limitations of mass media in public relations practice.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**JMC 58002 PUBLIC RELATIONS TACTICS 3 Credit Hours**

(Slashed with JMC 48002) Planning and preparation of face-to-face public relations tactics, including spokesperson training for on- and off-camera appearances, special event planning, speeches and presentations with visual support and other applications of 'writing for the ear.'

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**JMC 58003 DIGITAL PUBLIC RELATIONS 3 Credit Hours**

Explore fundamentals of web site planning and design and provide hands-on skills development using the full range of cyber media techniques. Includes emphasis on writing for online audiences.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**JMC 58006 PUBLIC RELATIONS PUBLICATIONS 3 Credit Hours**  
Planning, writing and design of organizational publications including newsletters, brochures, fliers and promotional materials.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**JMC 59005 MUSIC VIDEO PRODUCTION 3 Credit Hours**

(Slashed with JMC 49005) Teaches the process of producing and directing a music video. It covers the history and social impact of music videos. It includes some research into this social impact. Also storyboarding, scriptwriting, working with rough cuts, shooting a video, creating and pitching proposals.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**JMC 59021 CORPORATE VIDEO 3 Credit Hours**

The use of video in the legal, medical and corporate environments. Emphasis is placed on the structure and function of the medium within each environment.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**JMC 60000 INTRODUCTION TO GRADUATE STUDIES IN JOURNALISM AND MASS COMMUNICATION 3 Credit Hours**

An introductory survey of the various areas of professional and scholarly concentration in the fields of journalism and mass communication. Consideration of the relationship between professional practice and scholarly activity in those fields.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**JMC 60001 THEORY OF MASS COMMUNICATION 3 Credit Hours**

(Slashed with JMC 60001) Introduction to theory of mass communication, with emphasis on the process and effects of mass communication.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**JMC 60002 LEGAL PROBLEMS IN MASS COMMUNICATION 3 Credit Hours**

Case studies related to the first amendment, libel, invasion of privacy, regulation of broadcasting and new media copyright, and access to information. Course focus will be the theories underlying these issues as well as practical application of the legal concepts.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**JMC 60003 TEACHING JOURNALISM ETHICS 3 Credit Hours**

Study of ethical problems of mass media in society; analysis of media policies; performance evaluation.

**Prerequisite:** Journalism and mass communication major; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**JMC 60004 CYBERMEDIA LAW 3 Credit Hours**

Investigates how the law affects those who gather information and publish online, including issues relating to blogging, web site hosting, posting and online journalism, along with a basic ability to apply that knowledge in specific situations. Focus is on both existing law and developing public policy.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**JMC 60007 RESEARCH METHODS IN MASS COMMUNICATION 3 Credit Hours**

(Slashed with JMC 80007) Investigates social science methods applicable to the study of mass communication, including survey, content analysis, experimental, and focus group approaches. Emphasis is on original and secondary data collection, data analysis, and interpreting and reporting research results for scholarly and lay audiences.

**Prerequisite:** Journalism and mass communication major; and graduate standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**JMC 60009 SOCIAL ROLE OF THE MASS MEDIA 3 Credit Hours**

Application of professional, theoretical, historical, economic and political perspectives to examine the role of mass media in society both in terms of structure and function.

**Prerequisite:** Journalism and mass communication major; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**JMC 60010 QUALITATIVE RESEARCH IN JOURNALISM AND MASS COMMUNICATION: DATA COLLECTION 3 Credit Hours**

(Slashed with JMC 80010) Designed to develop skills in qualitative data collection in journalism and mass communication with primary focus on human subjects and textual data.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**JMC 60011 THEORY AND SOCIETAL ROLE OF MASS MEDIA 3 Credit Hours**

(Slashed with JMC 80011) Review theories of the processes and effects of mass communication and how these apply to the work of media professionals or those in the scholastic and collegiate journalism teaching environment. Examines origins, nature, consequences of mass communication and mediated interactions.

**Prerequisite:** Journalism mass communication major; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**JMC 60012 MASS COMMUNICATION LAW AND ETHICS 3 Credit Hours**

(Slashed with JMC 80012) General overview of issues and problems in mass communication law and ethics including libel, privacy, copyright, intellectual property, regulation of advertising and broadcasting, ethical decision making, ethical decision-making tools and a simple overview of ethics theory.

**Prerequisite:** Journalism mass communication major; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**JMC 60015 ADVANCED MEDIA MANAGEMENT 3 Credit Hours**

Theory and practice of management operations and problem-solving techniques specifically related to media companies. Emphasis will be using case studies from the media.

**Prerequisite:** JMC 50015; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**JMC 60021 LITERARY JOURNALISM 3 Credit Hours**

Research, interviewing, writing and marketing major magazine articles for online and print publications.

**Prerequisite:** JMC 50002; and graduate standing; or special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**JMC 60040 QUALITATIVE RESEARCH METHODS IN JOURNALISM AND MASS COMMUNICATION: DATA ANALYSIS 3 Credit Hours**

Emphasizes the development of skills in the analysis of data collected through qualitative research methods, particularly interviews and ethnographies. Designed to help prepare graduate students who plan to use qualitative methods in their academic or applied research, particularly those who are adopting these methods for theses or dissertations.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**JMC 60096 INDIVIDUAL INVESTIGATION IN MASS COMMUNICATION 1-3 Credit Hours**

(Repeatable for a maximum of 6 credit hours) Individual investigation of selected area or problem approved by graduate faculty.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Individual Investigation

**Contact Hours:** 1-3 other

**Grade Mode:** Standard Letter-IP

**JMC 60098 RESEARCH 1-15 Credit Hours**

(Repeatable for credit) Research or individual investigation for master's level graduate students. Credits earned may be applied toward meeting degree requirements if school approves. Maximum of 3 hours may be applied to degree if school approves.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Research

**Contact Hours:** 1-15 other

**Grade Mode:** Satisfactory/Unsatisfactory

**JMC 60195 SPECIAL TOPICS SEMINAR 1-3 Credit Hours**

(Repeatable for credit) Study of important topics in mass communication. Offered irregularly in response to existing interests and opportunities.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 1-3 lecture

**Grade Mode:** Standard Letter-IP

**JMC 60196 READINGS IN MASS COMMUNICATIONS 1-3 Credit Hours**

(Repeatable for credit) Student pursues course of readings approved by instructor to cover subject specialty student cannot obtain from formal course offerings.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Individual Investigation

**Contact Hours:** 1-3 other

**Grade Mode:** Standard Letter-IP

**JMC 60199 THESIS I 2-6 Credit Hours**

Thesis students must register for a total of 6 hours, 2 to 6 hours in single semester distributed over several semesters if desired.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Masters Thesis

**Contact Hours:** 2-6 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**JMC 60295 SPECIAL TOPICS IN COMPUTER LAB 1-3 Credit Hours**

(Repeatable for credit) Selected topics of special interest not covered in depth in existing courses; offered as resources permit.

**Prerequisite:** Special approval.

**Schedule Type:** Laboratory

**Contact Hours:** 1-3 lab

**Grade Mode:** Standard Letter

**JMC 60296 ADVANCED READINGS IN JOURNALISM AND MASS COMMUNICATION 3 Credit Hours**

(Repeatable for credit) Consolidation and synthesis of learning experiences in the graduate program. Application of graduate study to future professional careers. Updates on latest developments in the fields of JMC and their impact on the future of academic study and professional practice in the discipline.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Individual Investigation

**Contact Hours:** 3 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**JMC 60299 THESIS II 2 Credit Hours**

Thesis student must continue registration each semester until all degree requirements are met.

**Prerequisite:** JMC 60199; and graduate standing.

**Schedule Type:** Masters Thesis

**Contact Hours:** 2 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**JMC 60396 MASTER'S PROFESSIONAL PROJECT 3 Credit Hours**

Completion and defense of a substantial professional project in one of the fields of journalism and mass communication.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Individual Investigation

**Contact Hours:** 3 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP



**JMC 60701 ADVISING STUDENT MEDIA 3 Credit Hours**

A high school journalism adviser should advise and not do student work or act as editor. This is not easy because of pressure both inside and outside the school. This course helps advisers learn how to create and maintain good relationships with all involved, understand press law and the need for an effective editorial policy, appreciate the role of the high school press, motivate students and help them make ethical decisions, find proper resources and organizations available to help them. Those who complete the course should be able to direct their students to put out a publication that demonstrates students' understanding of the First Amendment and their understanding of the role of the student press in a free society.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**JMC 61001 PRINCIPLES AND PRACTICES OF DIGITAL MEDIA 3 Credit Hours**

Explores the history and philosophies of online communities and what makes them work. Examines how professionals integrate digital thinking into an organization's communication. Covers best practices for producing social media content that will lead to effective engagement.

**Prerequisite:** Journalism and mass communication major; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**JMC 64036 DIGITAL VIDEO EDITING 3 Credit Hours**

Focus is on editing workflow and techniques for both non-fiction and fiction video production.

**Prerequisite:** Journalism and mass communication major; and graduate standing; and special approval.

**Schedule Type:** Laboratory, Lecture, Combined Lecture and Lab

**Contact Hours:** 2 lecture, 2 lab

**Grade Mode:** Standard Letter

**JMC 65660 POLITICAL COMMUNICATION 3 Credit Hours**

(Cross-listed with COMM 65660 and COMM 75660) An examination of political communication theory and research. Content includes approaches to political communication, role of the media in politics and analysis of political messages.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**JMC 66010 SPECIALIZED REPORTING 3 Credit Hours**

Newsgathering techniques in specialty areas such as politics, labor, medicine, business and technology techniques of team reporting.

**Prerequisite:** JMC 56009 and JMC 55051; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**JMC 66011 REPORTING, WRITING AND EDITING FOR MEDIA 3 Credit Hours**

Foundation course for all students covering how to gather, write and edit content to tell stories across multiple media platforms. Students will practice interviewing and research techniques, structuring work in a variety of formats and polishing grammar, usage and AP Style.

**Prerequisite:** Journalism and mass communication major; and graduate standing; and special approval.

**Schedule Type:** Laboratory, Lecture, Combined Lecture and Lab

**Contact Hours:** 2 lecture, 2 lab

**Grade Mode:** Standard Letter

**JMC 66092 INTERNSHIP IN JOURNALISM AND MASS COMMUNICATION 1-3 Credit Hours**

(Repeatable for credit) Experience in a department or company involving supervised professional responsibilities in journalism and mass communication. Minimum 150 hours of work for each credit hour.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Practical Experience

**Contact Hours:** 1-3 other

**Grade Mode:** Standard Letter-IP

**JMC 67073 WEB DEVELOPMENT FOR HIGH SCHOOL JOURNALISM EDUCATORS 2 Credit Hours**

Basic terminology and structure of online content management systems and how they can be utilized for online student journalism and media in high school. This course covers system functionality and structure, as well as orientation of students to the management system. Aspects of high school administration and legal issues will be covered along with site design and user experience.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**JMC 67075 TEACHING MULTIMEDIA 3 Credit Hours**

Online introduction to recognizing and producing some of the basic linear and non-linear journalistic multimedia tools used for storytelling for the Web, including audio, video, and photo slideshows. Students will also be introduced to data and mapping visualization tools, timelines and DX codes to enhance storytelling.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**JMC 67076 TEACHING BROADCAST JOURNALISM 3 Credit Hours**

Deals with the base knowledge that a teacher needs to begin teaching broadcast journalism. This includes modules on cultivating student broadcast journalism, project-based instruction, as well as one on legalities and ethics along with production skills. While the primary focus is on teaching technique, class participants are given basic journalism content in order to review, learn and or focus on teaching methods for that same material.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter



**JMC 67079 TEACHING PHOTO EDITING 2 Credit Hours**

Utilization of current photo editing software provides users with powerful tools to acquire, manipulate, and output a variety of images, from fine art to instructional and web graphics. The focus of this course is learning the fundamental operations and controls of industry standard photo editing software and dialogue concerning various issues in teaching and learning photo editing software.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**JMC 67083 TEACHING NEWS DESIGN 3 Credit Hours**

Provides an introduction to the components of news content and design.

This includes type and typography, printing processes, photography, illustration, the thought process in creating a news product and further introductions in the developing field of visual journalism.

Shows journalism educators how a student media staff can effectively communicate with readers through visual elements.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**JMC 67085 TEACHING PHOTOJOURNALISM 3 Credit Hours**

Examines the components of photojournalism and prepares instructors to teach those components to their students. In addition to traditional assignments and projects, instructors and students maintain a weekly dialog. Students gain the following skills necessary to teach their classes: basic operation of a digital camera, essential components of good photography, how to capture images that tell a story, strategies for covering news, features and sporting events as well as portraits and group shots, strategies for organizing and archiving images and ethical practices for capturing images and using them in publication work.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**JMC 67087 ADVISING YEARBOOK 3 Credit Hours**

Students gain contextual information regarding yearbook roles in history and memory along with practical skills for recruitment, staff organization, staffing and production, and incorporating the creation of the yearbook into a classroom setting.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**JMC 68000 PUBLIC RELATIONS THEORY AND PROCESS 3 Credit Hours**

Introduces students to the profession of public relations by exploring both the theories and the processes employed by PR practitioners.

Course also explores the history and social role of public relations as well as ethics and social responsibility.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**JMC 68001 PUBLIC RELATIONS MANAGEMENT 3 Credit Hours**

(Slashed with JMC 88001) Perspectives, skills needed to manage an organization's PR function, particularly strategic planning, implementation and evaluation. Emphasis on managerial aspects of negotiating organizational relationships with the public.

**Prerequisite:** JMC 68000; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**JMC 68004 SOCIAL MEDIA AND PUBLIC RELATIONS 3 Credit Hours**

Provides an in-depth study of social media and public relations, emphasizing how the two are used by organizations to build stronger relations with consumers, media, analysts, and others.

**Prerequisite:** JMC 68000 and JMC 68001; and graduate standing in journalism and mass communication.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**JMC 68005 STRATEGIC WRITING AND MESSAGING IN PUBLIC RELATIONS 3 Credit Hours**

Focuses on public relations writing and strategic messaging, a critical foundational skill. Course content includes skill building in online channels and across traditional mediums.

**Prerequisite:** JMC 68000 and JMC 68001; and graduate standing in journalism and mass communication.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**JMC 68006 VALUES AND ETHICS MANAGEMENT IN PUBLIC RELATIONS 3 Credit Hours**

Explores the theory and application of ethics in public relations.

Examines case studies, ethics theory, values and management thought.

**Prerequisite:** JMC 68000 and 68001; and journalism and mass communication major; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**JMC 68008 PUBLIC RELATIONS MEASUREMENT AND RETURN ON INVESTMENT 3 Credit Hours**

Examines the strategic and tactical processes for measuring outcomes in public relations campaigns.

**Prerequisite:** JMC 68000 and 68001; and journalism and mass communication major; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**JMC 68009 PUBLIC RELATIONS HISTORY AND THE MODERN WORLD 3 Credit Hours**

Examines development of Public Relations as a profession, focusing on the Twentieth Century. Detailed study of historical case studies, campaigns and initiatives.

**Prerequisite:** JMC 68000 and JMC 68001; and graduate student in journalism and mass communication.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**JMC 68010 PUBLIC RELATIONS INTERNAL COMMUNICATIONS 3 Credit Hours**

Explores strategies and tactics of internal communications. Includes development of organizational intranets and other employee-focused communications channels with special emphasis on social media to communicate public relations messages.

**Prerequisite:** JMC 68000 and JMC 68001; and journalism and mass communication major; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**JMC 68011 FINANCIAL ISSUES IN PUBLIC RELATIONS 3 Credit Hours**

Focuses on financial topics related to a career in public relations, particularly the role of communicators in the growing field of investor relations.

**Prerequisite:** JMC 68000 and JMC 68001; and graduate student in journalism and mass communication.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**JMC 80001 THEORY OF MASS COMMUNICATION 3 Credit Hours**

(Slashed with JMC 60001) Introduction to theory of mass communication with emphasis on the process and effects of mass communication.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**JMC 80004 CYBERMEDIA LAW 3 Credit Hours**

Investigates how the law affects those who gather information and publish online, including issues relating to blogging, web site hosting, posting and online journalism, along with a basic ability to apply that knowledge in specific situations. Focus is on both existing law and developing public policy.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**JMC 80007 RESEARCH METHODS IN MASS COMMUNICATION 3 Credit Hours**

(Slashed with JMC 60007) Investigates social science methods applicable to the study of mass communication, including survey, content analysis, experimental, and focus group approaches. Emphasis is on original and secondary data collection, data analysis, and interpreting and reporting research results for scholarly and lay audiences.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**JMC 80010 QUALITATIVE RESEARCH IN JOURNALISM AND MASS COMMUNICATION: DATA COLLECTION 3 Credit Hours**

(Slashed with JMC 60010) Designed to develop skills in qualitative data collection in journalism and mass communication with primary focus on human subjects and textual data.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**JMC 80011 THEORY AND SOCIETAL ROLE OF MASS MEDIA 3 Credit Hours**

(Slashed with JMC 60011) Review theories of the processes and effects of mass communication and how these apply to the work of media professionals or those in the scholastic and collegiate journalism teaching environment. Examines origins, nature, consequences of mass communication and mediated interactions.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**JMC 80012 MASS COMMUNICATION LAW AND ETHICS 3 Credit Hours**

(Slashed with JMC 60012) General overview of issues and problems in mass communication law and ethics including libel, privacy, copyright, intellectual property, regulation of advertising and broadcasting, ethical decision making, ethical decision-making tools and a simple overview of ethics theory.

**Prerequisite:** A major within the college of communication and information; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**JMC 80040 QUALITATIVE RESEARCH METHODS IN JOURNALISM AND MASS COMMUNICATION: DATA ANALYSIS 3 Credit Hours**

Emphasizes the development of skills in the analysis of data collected through qualitative research methods, particularly interviews and ethnographies. Designed to help prepare graduate students who plan to use qualitative methods in their academic or applied research, particularly those who will be adopting these methods for theses or dissertations.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**JMC 80195 SPECIAL TOPICS IN JOURNALISM AND MASS COMMUNICATION 3 Credit Hours**

(Repeatable for credit) Study of important topics in mass communication. Offered irregularly in response to existing interests and opportunities.

**Prerequisite:** Doctoral standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**JMC 88001 PUBLIC RELATIONS MANAGEMENT 3 Credit Hours**

(Slashed with JMC 68001) Perspectives, skills needed to manage an organization's PR function, particularly strategic planning, implementation and evaluation. Emphasis on managerial aspects of negotiating organizational relationships with the public.

**Prerequisite:** A major within the college of communication and information; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

## Kent Blossom Music (KBM)

**KBM 40026 ACCOMPANYING PROJECTS 2-4 Credit Hours**  
(Repeatable for a maximum of 8 credit hours) rotating piano assignment among responsibilities in chamber music rehearsals, chamber music preparation master classes and instrumental private lessons. Individual responsibilities change weekly.

**Prerequisite:** Audition.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 2-4 other

**Grade Mode:** Satisfactory/Unsatisfactory

**KBM 40031 CHAMBER MUSIC 1-4 Credit Hours**

(Repeatable for a maximum of 8 credit hours) rehearsal, coaching and performance of representative chamber repertoire from the baroque era through the twentieth century. Woodwinds horn strings and piano. Intensive daily rehearsal and coaching.

**Prerequisite:** Audition.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 1-4 other

**Grade Mode:** Satisfactory/Unsatisfactory

**KBM 40032 ORCHESTRAL REPERTOIRE AND TECHNIQUE 1 Credit Hour**

(Repeatable for a maximum of 2 credit hours) study and performance of standard orchestral repertoire and common audition requirements. Technical and interpretive approaches relating specifically to orchestral performance. Woodwinds horn and strings.

**Prerequisite:** Audition.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 1 other

**Grade Mode:** Satisfactory/Unsatisfactory

**KBM 40093 VARIABLE TITLE WORKSHOP IN MUSIC 1-4 Credit Hours**

(Repeatable for credit) Offered for specific professional needs. Emphasis on performance and pedagogical skills.

**Prerequisite:** Permission.

**Schedule Type:** Workshop

**Contact Hours:** 4 other

**Grade Mode:** Satisfactory/Unsatisfactory

**KBM 50026 ACCOMPANYING PROJECTS 2-4 Credit Hours**

(Repeatable for a maximum of 8 credit hours) Rotating piano assignment among responsibilities in chamber music rehearsals, chamber music preparation, master classes and instrumental private lessons. Individual responsibilities change weekly.

**Prerequisite:** Graduate standing; and audition.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 2-4 other

**Grade Mode:** Satisfactory/Unsatisfactory

**KBM 50031 CHAMBER MUSIC 1-4 Credit Hours**

(Repeatable for credit) Rehearsal, coaching and performance of representative chamber repertoire from the Baroque Era through the twentieth century. Woodwinds, horn, strings and piano. Intensive daily rehearsal and coaching.

**Prerequisite:** Graduate standing; and audition.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 1-4 other

**Grade Mode:** Satisfactory/Unsatisfactory

**KBM 50032 ORCHESTRAL REPERTOIRE AND TECHNIQUE 1 Credit Hour**

(Repeatable for a maximum of 2 credit hours) Study and performance of standard orchestral repertoire and common audition requirements. Technical and interpretive approaches relating specifically to orchestral performance. Woodwinds, horn and strings.

**Prerequisite:** Graduate standing; and audition.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 1 other

**Grade Mode:** Satisfactory/Unsatisfactory

**KBM 50093 VARIABLE TITLE WORKSHOP IN MUSIC 1-4 Credit Hours**

(Repeatable for credit) Offered for specific professional needs. Emphasis on performance and pedagogical skills.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Workshop

**Contact Hours:** 4 other

**Grade Mode:** Satisfactory/Unsatisfactory

**KBM 70026 ACCOMPANYING PROJECTS 2-4 Credit Hours**

(Repeatable for a maximum of 8 credit hours) Rotating piano assignment among responsibilities in chamber music rehearsals, chamber music preparation, master classes and instrumental private lessons. Individual responsibilities change weekly.

**Prerequisite:** Doctoral standing; and special approval.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 2-4 other

**Grade Mode:** Satisfactory/Unsatisfactory

**KBM 70031 CHAMBER MUSIC 1-4 Credit Hours**

(Repeatable for credit) Rehearsal, coaching and performance of representative chamber repertoire from the Baroque era through the twentieth century. Woodwinds, brass, strings and piano. Intensive daily rehearsal and coaching.

**Prerequisite:** Doctoral standing; and special approval.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 1-4 other

**Grade Mode:** Satisfactory/Unsatisfactory

**KBM 70032 ORCHESTRAL REPERTOIRE AND TECHNIQUE 1 Credit Hour**

(Repeatable for a maximum of 2 credit hours) Study and performance of standard orchestral repertoire and common audition requirements. Technical and interpretive approaches relating specifically to orchestral performance. Woodwinds, horn and strings.

**Prerequisite:** Doctoral standing; and special approval.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 1 other

**Grade Mode:** Satisfactory/Unsatisfactory

**KBM 70093 VARIABLE TITLE WORKSHOP IN MUSIC 1-4 Credit Hours**

(Repeatable for credit) Offered for specific professional needs. Emphasis on performance and pedagogical skills.

**Prerequisite:** Doctoral standing; and special approval.

**Schedule Type:** Workshop

**Contact Hours:** 4 other

**Grade Mode:** Satisfactory/Unsatisfactory

## Kent Blossom Theatre (KBT)

### **KBT 22092 PRACTICUM I:DESIGN/TECHNOLOGY (ELR) 3 Credit Hours**

(Repeatable for a maximum of 12 credit hours) Practical experience in theatre production under faculty supervision. Available for lower division students only.

**Prerequisite:** Freshman and sophomore standing only.

**Schedule Type:** Practical Experience

**Contact Hours:** 3 other

**Grade Mode:** Satisfactory/Unsatisfactory

**Attributes:** Experiential Learning Requirement

### **KBT 22192 PRACTICUM I:PERFORMANCE (ELR) 3 Credit Hours**

(Repeatable for a total of 12 hours) practical experience in theatre performance under faculty supervision. Available for lower division students only. Repeatable for a total of 12 hours.

**Prerequisite:** Freshman and sophomore standing only.

**Schedule Type:** Practical Experience

**Contact Hours:** 3 other

**Grade Mode:** Satisfactory/Unsatisfactory

**Attributes:** Experiential Learning Requirement

### **KBT 41096 INDIVIDUAL STUDY:THEATRE 1-3 Credit Hours**

(Repeatable for a total of 12 hours) Selected research topics in theatre.

**Prerequisite:** Permission.

**Schedule Type:** Individual Investigation

**Contact Hours:** 1-3 other

**Grade Mode:** Standard Letter-IP

### **KBT 41992 THEATRE PRODUCTION INTERNSHIP (ELR) 1-6 Credit Hours**

(Repeatable for a maximum of 12 credit hours) Intensive advanced training in practical aspects of production. Periodic seminars, laboratory sessions and performance in Porthouse Theatre Company.

**Prerequisite:** Junior standing; and special approval.

**Schedule Type:** Practical Experience

**Contact Hours:** 1-6 other

**Grade Mode:** Satisfactory/Unsatisfactory

**Attributes:** Experiential Learning Requirement

### **KBT 42092 PRACTICUM II: DESIGN/TECHNOLOGY (ELR) 3 Credit Hours**

(Repeatable for a maximum of 12 credit hours) Advanced practical experience in theatre production under faculty supervision. Available for upper division students only.

**Prerequisite:** Junior and senior standing only.

**Schedule Type:** Practical Experience

**Contact Hours:** 3 other

**Grade Mode:** Satisfactory/Unsatisfactory

**Attributes:** Experiential Learning Requirement

### **KBT 42192 PRACTICUM II:PERFORMANCE (ELR) 3 Credit Hours**

(Repeatable for a maximum of 12 credit hours) Advanced practical experience in theatre performance under faculty supervision. Available for upper division students only.

**Prerequisite:** Junior and senior standing.

**Schedule Type:** Practical Experience

**Contact Hours:** 3 other

**Grade Mode:** Satisfactory/Unsatisfactory

**Attributes:** Experiential Learning Requirement

### **KBT 60199 M.F.A.. THESIS 3 Credit Hours**

(Repeatable for credit) Students must register for course during the semester of their MFA thesis project.

**Prerequisite:** Graduate standing; and special approval of adviser.

**Schedule Type:** Masters Thesis

**Contact Hours:** 3 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

### **KBT 60992 PROFESSIONAL THEATRE INTERNSHIP I 1,6 Credit Hour**

(Cross-listed with THEA 60992) (Repeatable once for credit) Intensive advanced training in practical aspects of production. Periodic seminars, laboratory sessions and performance in the Porthouse Theatre Company.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Practical Experience

**Contact Hours:** 1-6 other

**Grade Mode:** Satisfactory/Unsatisfactory

### **KBT 61096 INDIVIDUAL INVESTIGATION:THEATRE AND DRAMA 1-4 Credit Hours**

(Repeatable for a maximum of 6 credit hours) Independent study of an area or problem approved by divisional graduate coordinator in consultation with project director.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Individual Investigation

**Contact Hours:** 1-4 other

**Grade Mode:** Standard Letter-IP

### **KBT 61992 PROFESSIONAL THEATRE INTERNSHIP II 1,6 Credit Hour**

Intensive advanced training in practical aspects of production. Periodic seminars, laboratory sessions and performance in Porthouse Theatre Company.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Practical Experience

**Contact Hours:** 1-6 other

**Grade Mode:** Satisfactory/Unsatisfactory

### **KBT 62092 PRACTICUM: DESIGN/TECHNOLOGY 3 Credit Hours**

(Repeatable for credit) Practical experience for the graduate student in theatre design and technology under faculty supervision.

**Prerequisite:** Graduate standing.

**Schedule Type:** Practical Experience

**Contact Hours:** 3 other

**Grade Mode:** Satisfactory/Unsatisfactory

### **KBT 62192 PRACTICUM:PERFORMANCE 3 Credit Hours**

(Repeatable for a maximum of 12 credit hours) (Cross-listed with THEA 62192) Practical experience for the graduate student in theatre performance under faculty supervision.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Practical Experience

**Contact Hours:** 3 other

**Grade Mode:** Satisfactory/Unsatisfactory

### **KBT 62992 THEATRE PRODUCTION INTERNSHIP 1-6 Credit Hours**

(Repeatable for a maximum of 12 credit hours) Intensive advanced training in practical aspects of production. Periodic seminars, laboratory sessions and performance in Porthouse Theatre Company.

**Prerequisite:** Graduate standing; and special approval of adviser.

**Schedule Type:** Practical Experience

**Contact Hours:** 1-6 other

**Grade Mode:** Satisfactory/Unsatisfactory



**KBT 72992 THEATRE PRODUCTION INTERNSHIP 1-6 Credit Hours**  
 (Repeatable for a maximum of 12 credit hours) Intensive advanced training in practical aspects of production. Periodic seminars, laboratory sessions and performance in Porthouse Theatre Company.  
**Prerequisite:** Doctoral standing; and special approval of adviser.  
**Schedule Type:** Practical Experience  
**Contact Hours:** 1-6 other  
**Grade Mode:** Satisfactory/Unsatisfactory

## Knowledge Management (KM)

**KM 41095 SPECIAL TOPICS IN KNOWLEDGE MANAGEMENT 1-3 Credit Hours**  
 (Repeatable for credit) Topics could include current or emerging issues in knowledge management. Topics will be announced in schedule of classes. Offered irregularly as resources and opportunities permit.  
**Prerequisite:** None.  
**Schedule Type:** Lecture  
**Contact Hours:** 1-3 lecture  
**Grade Mode:** Standard Letter

**KM 41096 INDIVIDUAL INVESTIGATION IN KNOWLEDGE MANAGEMENT 1-3 Credit Hours**  
 (Repeatable for credit) Research or individual investigation in areas not covered in the existing curriculum for baccalaureate level students at or above the junior level.  
**Prerequisite:** Special approval.  
**Schedule Type:** Individual Investigation  
**Contact Hours:** 3-9 other  
**Grade Mode:** Standard Letter-IP

**KM 60301 FOUNDATIONAL PRINCIPLES OF KNOWLEDGE MANAGEMENT 3 Credit Hours**  
 (Slashed with KM 80301) This course covers an introduction to: historical roots for knowledge and knowledge management; theories/definitions of knowledge; theories, applications tools and practices of KM; Knowledge Management Life-Cycle Framework and Models; significant issues in KM– best practices, culture, economics, strategy, intellectual capital, sustainable innovation.  
**Prerequisite:** Graduate standing.  
**Schedule Type:** Lecture  
**Contact Hours:** 3 lecture  
**Grade Mode:** Standard Letter

**KM 60303 KNOWLEDGE ASSESSMENT AND EVALUATION 3 Credit Hours**  
 (Slashed with KM 80303) Explores all aspects of effective knowledge management within all types of organizations. Lays out the context for knowledge management – at each multiple levels (strategic, technical, business-aligned, and individual) and across all competencies. Covers theory, practice and methods of assessment and evaluation for all levels and all competencies. Provides an introduction to knowledge strategy formulation and planning, knowledge management maturity modeling, knowledge typologies and audits, knowledge mapping, organizational network analysis, knowledge competency mapping and human capital analytics, strategic workforce planning concepts, internal knowledge markets and incentives, community of practice metrics, organizational culture metrics.  
**Prerequisite:** KM 60301; and graduate standing.  
**Schedule Type:** Lecture  
**Contact Hours:** 3 lecture  
**Grade Mode:** Standard Letter

**KM 60304 THE INFORMATION AND KNOWLEDGE ECONOMY 3 Credit Hours**  
 Covers theories of information and knowledge economy. The focus of the course is on information and the new information and digital economy, consumer behavior and production theory; the demand for information; information as a factor of production; information costs and pricing. Case studies in the information industry are explored.  
**Prerequisite:** Graduate standing.  
**Pre/corequisite:** KM 60301.  
**Schedule Type:** Lecture  
**Contact Hours:** 3 lecture  
**Grade Mode:** Standard Letter

**KM 60305 COMMUNITIES OF PRACTICE 3 Credit Hours**  
 (Slashed with KM 80305) Explores collaboration and communities from both a theoretical and a practical perspective. The theory includes structural elements (defining a community identity, scoping the domain, defining practice), and natural lifecycles, and best practices for cultivating communities. On the practical side, students explore strategic placement of communities, the community development process, community design and implementation, and measuring the impacts of communities on intellectual capital creation. Communities of practice are also discussed in the context of digital ecosystems (Web 2.0 and Web 3.0). Utilizes readings and reviews of real life case studies of communities of practice in education, health care and nursing, disaster management, military sciences, and hobbies and craft circles. Students also complete a course project pertaining to community of practice evaluation.  
**Prerequisite:** KM 60301; and graduate standing.  
**Schedule Type:** Lecture  
**Contact Hours:** 3 lecture  
**Grade Mode:** Standard Letter

**KM 60307 ORGANIZATIONAL LEARNING 3 Credit Hours**  
 Addresses organizational learning in fast-paced, complex and changing organizational environments. For knowledge organizations in the 21st century, learning is a continuous activity. To survive and grow, a knowledge organization must learn through its people, its groups and the organization as a whole. The capacity to learn is a competitive advantage for a knowledge organization. Covers the fundamental theory of organizational learning, organizational learning types, and the five disciplines of learning organizations, and factors that facilitate or impede organizational learning.  
**Prerequisite:** KM 60301; and graduate standing.  
**Schedule Type:** Lecture  
**Contact Hours:** 3 lecture  
**Grade Mode:** Standard Letter

**KM 60310 INTELLECTUAL CAPITAL MANAGEMENT 3 Credit Hours**  
 This course encompasses the new knowledge-intensive economic units: human capital and social capital intellectual assets, intellectual property, brands and trademarks. A 'lifecycle' approach for intellectual assets is described– creation, codification, valuation, protection and leveraging of intellectual assets for competitive advantage.  
**Prerequisite:** KM 60301 with a minimum C grade; and graduate standing.  
**Schedule Type:** Lecture  
**Contact Hours:** 3 lecture  
**Grade Mode:** Standard Letter



**KM 60311 BUSINESS PROCESS MANAGEMENT 3 Credit Hours**  
 (Slashed with KM 80311) Introduction to business process management and workflow management. BPM will describe how organizational business processes (internal, external, manual and automated) can be transformed and managed to increase efficiency, effectiveness and positively affect performance. Topics include the discovery, analysis, modeling and automation of workflow processes.  
**Prerequisite:** KM 60301 with a minimum C grade; and graduate standing.  
**Schedule Type:** Lecture  
**Contact Hours:** 3 lecture  
**Grade Mode:** Standard Letter

**KM 60312 BUSINESS INTELLIGENCE-COMPETITIVE INTELLIGENCE 3 Credit Hours**  
 An introduction to strategic intelligence consisting of competitive and business intelligence. Strategic intelligence is an art, science and craft. Businesses and governments require effective intelligence programs, processes and tools to track businesses competitors, markets and trends by acquiring, creating, managing and disseminating intelligence knowledge.  
**Prerequisite:** KM 60301 with a minimum C grade; and graduate standing.  
**Schedule Type:** Lecture  
**Contact Hours:** 3 lecture  
**Grade Mode:** Standard Letter

**KM 60315 FOUNDATIONS OF DOCUMENT MANAGEMENT 3 Credit Hours**  
 Covers three main themes: Principles, which covers the document and records management conceptual framework, relationships with information policy, definitions and industry standards; Practices, which covers the management and procedural framework for effective planning and implementation of document and records management solutions; Technologies, which provides a business-oriented analysis of the nature of the enabling information systems available to support effective document and records management solutions.  
**Prerequisite:** Graduate standing.  
**Pre/corequisite:** KM 60301.  
**Schedule Type:** Lecture  
**Contact Hours:** 3 lecture  
**Grade Mode:** Standard Letter

**KM 60316 ORGANIZATIONAL CULTURE ASSESSMENT 3 Credit Hours**  
 Examines different types of cultures and how each type influences a knowledge organization - how culture influences the way knowledge workers work, how they make decisions and how they behave, the internal cultures of groups and communities, the cultural attributes of knowledge workers which may impact their knowledge behaviors. Organizational cultures of multicultural, global and virtual organizations are covered. Students conduct an organizational culture assessment.  
**Prerequisite:** Graduate standing.  
**Pre/corequisite:** KM 60301.  
**Schedule Type:** Lecture  
**Contact Hours:** 3 lecture  
**Grade Mode:** Standard Letter

**KM 60340 BUSINESS NARRATIVE AND STORYTELLING 3 Credit Hours**  
 (Slashed with KM 80340) Focuses on the business use of storytelling and narrative intelligence. Narrative intelligence is the ability to make sense of the world through narrative and storytelling. Business narrative helps a knowledge organization to strengthen its organizational visions, to enhance communications, to capture and transfer knowledge, externalize and internalize tacit knowledge, encourage innovation, build communities, and develop effective training, mentoring and learning strategies. Business narrative is the primary way that procedural knowledge is understood and shared. Covers oral and written stories, documentaries, oral histories, organizational myths and legends, case scenarios, training scenarios, encoded and embedded business rules, gossip and business conversations. Students learn how to develop business stories, craft and deliver a springboard story, evaluate narrative architectures, and design systems that support access to business narratives and stories.  
**Prerequisite:** KM 60301; and graduate standing.  
**Schedule Type:** Lecture  
**Contact Hours:** 3 lecture  
**Grade Mode:** Standard Letter

**KM 60370 SEMANTIC ANALYSIS METHODS AND TECHNOLOGIES 3 Credit Hours**  
 (Slashed with KM 80370) Introduces students to the practical contexts, methods and tools associated with semantic analysis. Focuses on early life cycle aspects of semantics, including identification and modeling of semantic problems, design of semantic solutions, and the identification and implementation of appropriate semantic technologies. Covers natural language processing, rule-based and grammar based concept extraction, rule-based and dynamic classification and automated summarization. Students work with a variety of semantic technologies.  
**Prerequisite:** KM 60301 or EMAT 64210 or MIS 64036; and graduate standing.  
**Schedule Type:** Lecture  
**Contact Hours:** 3 lecture  
**Grade Mode:** Standard Letter

**KM 60691 SEMINAR IN KNOWLEDGE MANAGEMENT 1-3 Credit Hours**  
 (Repeatable for credit) Advanced research by students who are qualified to examine problems of certain special areas related to concentrations of study in knowledge management.  
**Prerequisite:** Graduate standing.  
**Schedule Type:** Seminar  
**Contact Hours:** 1-3 other  
**Grade Mode:** Standard Letter

**KM 60693 VARIABLE TITLE WORKSHOP IN KNOWLEDGE MANAGEMENT 1-3 Credit Hours**  
 (Repeatable for credit) Intensive examination of special topics of interest to those involved in knowledge management. Maximum number of workshop credits for the MS-KM degree is 4 semester hours.  
**Prerequisite:** Graduate standing.  
**Schedule Type:** Workshop  
**Contact Hours:** 1-3 other  
**Grade Mode:** Satisfactory/Unsatisfactory

**KM 60792 ELECTIVE INTERNSHIP IN KNOWLEDGE MANAGEMENT****2-3 Credit Hours**

Supervised work experience in knowledge management of a professional nature of not less than 100 clock hours (for 2 credit hours) or 150 clock hours (for 3 credit hours) with directed preparation of a reflection paper.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Practical Experience

**Contact Hours:** 6-10 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**KM 61095 SPECIAL TOPICS IN KNOWLEDGE MANAGEMENT 1-3****Credit Hours**

(Repeatable for credit) Offered irregularly as resources and/or opportunities permit. Topics could include current or emerging issues in knowledge management. Specific topics are announced in the Schedule of Classes.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 1-3 lecture

**Grade Mode:** Standard Letter

**KM 61096 INDIVIDUAL INVESTIGATION IN KNOWLEDGE****MANAGEMENT 1-3 Credit Hours**

(Repeatable for credit) Research or individual investigation in areas not covered in the existing curriculum for master's level students. Maximum credit towards master's degree: 6 hours.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Individual Investigation

**Contact Hours:** 3-9 other

**Grade Mode:** Standard Letter-IP

**KM 66092 MASTER'S INTERNSHIP IN KNOWLEDGE MANAGEMENT****3 Credit Hours**

Supervised work experience of an advanced professional nature that concentrates on developing skills in areas of knowledge management and integrates their knowledge from all KM courses and experiences.

Students must have completed 30 credit hours towards the MS-KM program prior to registration.

**Prerequisite:** KM 60301, KM 60303, KM 60304, KM 60305, KM 60307 and LIS 60636; and a minimum 3.000 overall GPA; and graduate standing; and special approval.

**Schedule Type:** Practical Experience

**Contact Hours:** 9 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**KM 66098 MASTER'S PROJECT IN KNOWLEDGE MANAGEMENT 3****Credit Hours**

Provides a means for the application of the knowledge, research and competencies learned through study in knowledge management to the development of an information system, product, setting or service.

Students must have completed a minimum of 30 credit hours prior to enrolling in the course.

**Prerequisite:** KM 60301, KM 60303, KM 60304, KM 60305, KM 60307 and LIS 60636; and minimum 3.000 overall GPA; and graduate standing; and special approval.

**Schedule Type:** Master's Project

**Contact Hours:** 3 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**KM 66198 MASTER'S RESEARCH PAPER IN KNOWLEDGE****MANAGEMENT 3 Credit Hours**

Under the advisement of a faculty member, students will complete a research paper that serves as a culminating experience for the M.S.-KM program. Students must have completed a minimum of 30 credit hours towards the MS-KM program prior to registration.

**Prerequisite:** KM 60301, KM 60303, KM 60304, KM 60305, KM 60307 and LIS 60636; and minimum 3.000 overall GPA; and graduate standing; and special approval.

**Schedule Type:** Master's Project

**Contact Hours:** 3 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**KM 66199 THESIS I 2-6 Credit Hours**

Thesis students must register for a total of 6 hours, 2 to 6 hours in a single semester distributed over several semesters if desired. Students must have completed a minimum of 30 credit hours towards the MS-KM program prior to registration.

**Prerequisite:** KM 60301, KM 60303, KM 60304, KM 60305, KM 60307 and LIS 60636; and minimum 3.000 overall GPA; and graduate standing; and special approval.

**Schedule Type:** Masters Thesis

**Contact Hours:** 2-6 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**KM 66299 THESIS II 2 Credit Hours**

Thesis students must continue registration each semester until all degree requirements are met.

**Prerequisite:** KM 66199; and graduate standing; and special approval.

**Schedule Type:** Masters Thesis

**Contact Hours:** 2 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**KM 80301 FOUNDATIONAL PRINCIPLES OF KNOWLEDGE****MANAGEMENT 3 Credit Hours**

(Slashed with KM 60301) This course covers an introduction to: historical roots for knowledge and knowledge management; theories/definitions of knowledge; theories, applications, tools, and practices of KM; Knowledge Management Life-Cycle Framework and Models; significant issues in KM - best practices, culture, economics, strategy, intellectual capital, sustainable innovation.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**KM 80303 KNOWLEDGE ASSESSMENT AND EVALUATION 3 Credit****Hours**

(Slashed with KM 60303) Explores all aspects of effective knowledge management within all types of organizations. Lays out the context for knowledge management – at each multiple levels (strategic, technical, business-aligned, and individual) and across all competencies. Covers theory, practice and methods of assessment and evaluation for all levels and all competencies. Provides an introduction to knowledge strategy formulation and planning, knowledge management maturity modeling, knowledge typologies and audits, knowledge mapping, organizational network analysis, knowledge competency mapping and human capital analytics, strategic workforce planning concepts, internal knowledge markets and incentives, community of practice metrics, organizational culture metrics.

**Prerequisite:** KM 80301; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**KM 80305 COMMUNITIES OF PRACTICE 3 Credit Hours**

(Slashed with KM 60305) Explores collaboration and communities from both a theoretical and a practical perspective. The theory includes structural elements (defining a community identity, scoping the domain, defining practice), and natural lifecycles, and best practices for cultivating communities. On the practical side, students explore strategic placement of communities, the community development process, community design and implementation, and measuring the impacts of communities on intellectual capital creation. Communities of practice are also discussed in the context of digital ecosystems (Web 2.0 and Web 3.0). Utilizes readings and reviews of real life case studies of communities of practice in education, health care and nursing, disaster management, military sciences, and hobbies and craft circles. Students also complete a course project pertaining to community of practice evaluation.

**Prerequisite:** KM 80301; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**KM 80307 ORGANIZATIONAL LEARNING 3 Credit Hours**

(Slashed with KM 60307) Addresses organizational learning in fast-paced, complex and changing organizational environments. For knowledge organizations in the 21st century, learning is a continuous activity. To survive and grow, a knowledge organization must learn through its people, its groups and the organization as a whole. The capacity to learn is a competitive advantage for a knowledge organization. Covers the fundamental theory of organizational learning, organizational learning types, and the five disciplines of learning organizations, and factors that facilitate or impede organizational learning.

**Prerequisite:** KM 80301; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**KM 80310 INTELLECTUAL CAPITAL MANAGEMENT 3 Credit Hours**

(Slashed with KM 60310) This course encompasses the new knowledge-intensive economic units: human capital and social capital intellectual assets, intellectual property, brands, and trademarks. A 'lifecycle' approach for intellectual assets is described - creation, codification, valuation, protection and leveraging of intellectual assets for competitive advantage.

**Prerequisite:** KM 80301 with a minimum C grade; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**KM 80311 BUSINESS PROCESS MANAGEMENT 3 Credit Hours**

(Slashed with KM 60311) Introduction to business process management and workflow management. BPM will describe how organizational business processes, (internal, external, manual and automated), can be transformed and managed to increase efficiency, effectiveness and positively affect performance. Topics include the discovery, analysis, modeling and automation of workflow processes.

**Prerequisite:** KM 80301 with a minimum C grade; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**KM 80312 BUSINESS INTELLIGENCE-COMPETITIVE INTELLIGENCE 3 Credit Hours**

(Slashed with KM 60312) An introduction to strategic intelligence consisting of competitive and business Intelligence. Strategic intelligence is an art, science, and craft. Businesses and governments require effective intelligence programs, processes, and tools to track businesses, competitors, markets and trends by acquiring, creating, managing, packaging, and disseminating intelligence knowledge.

**Prerequisite:** KM 80301 with a minimum C grade; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**KM 80315 FOUNDATIONS OF DOCUMENT MANAGEMENT 3 Credit Hours**

(Slashed with KM 60315) Covers three main themes: Principles, which covers the document and records management conceptual framework, relationships with information policy, definitions and industry standards; Practices, which covers the management and procedural framework for effective planning and implementation of document and records management solutions; Technologies, which provides a business-oriented analysis of the nature of the enabling information systems available to support effective document and records management solutions.

**Prerequisite:** KM 80301; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**KM 80316 ORGANIZATIONAL CULTURE ASSESSMENT 3 Credit Hours**

(Slashed with KM 60316) Examines different types of cultures and how each type influences a knowledge organization - how culture influences the way knowledge workers work, how they make decisions and how they behave, the internal cultures of groups and communities, the cultural attributes of knowledge workers which may impact their knowledge behaviors. Organizational cultures of multicultural, global and virtual organizations are covered. Students conduct an organizational culture assessment.

**Prerequisite:** KM 80301; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**KM 80340 BUSINESS NARRATIVE AND STORYTELLING 3 Credit Hours**

(Slashed with KM 60340) Focuses on the business use of storytelling and narrative intelligence. Narrative intelligence is the ability to make sense of the world through narrative and storytelling. Business narrative helps a knowledge organization to strengthen its organizational visions, to enhance communications, to capture and transfer knowledge, externalize and internalize tacit knowledge, encourage innovation, build communities, and develop effective training, mentoring and learning strategies. Business narrative is the primary way that procedural knowledge is understood and shared. Covers oral and written stories, documentaries, oral histories, organizational myths and legends, case scenarios, training scenarios, encoded and embedded business rules, gossip and business conversations. Students learn how to develop business stories, craft and deliver a springboard story, evaluate narrative architectures, and design systems that support access to business narratives and stories.

**Prerequisite:** KM 80301; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**KM 80370 SEMANTIC ANALYSIS METHODS AND TECHNOLOGIES 3 Credit Hours**

(Slashed with KM 60370) Introduces students to the practical contexts, methods and tools associated with semantic analysis. Focuses on early life cycle aspects of semantics, including identification and modeling of semantic problems, design of semantic solutions, and the identification and implementation of appropriate semantic technologies. Covers natural language processing, rule-based and grammar based concept extraction, rule-based and dynamic classification and automated summarization. Students work with a variety of semantic technologies.

**Prerequisite:** KM 80301; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**KM 80691 SEMINAR IN KNOWLEDGE MANGEMENT 1-3 Credit Hours**

(Repeatable for credit) Advanced research by students who are qualified to examine problems of certain special areas related to concentrations of study in knowledge management.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Seminar

**Contact Hours:** 1-3 other

**Grade Mode:** Standard Letter

**KM 81095 SPECIAL TOPICS IN KNOWLEDGE MANAGEMENT 1-3 Credit Hours**

(Repeatable for credit) Offered irregularly as resources and or opportunities permit. Topics could include current or emerging issues in knowledge management. Specific topics are announced in the Schedule of Classes.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 1-3 lecture

**Grade Mode:** Standard Letter

**KM 81096 INDIVIDUAL INVESTIGATION IN KNOWLEDGE MANAGEMENT 1-3 Credit Hours**

Research or individual investigation for doctoral level students.

**Prerequisite:** Doctoral standing; and graduate standing.

**Schedule Type:** Individual Investigation

**Contact Hours:** 3-9 other

**Grade Mode:** Standard Letter-IP

## Landscape Architecture (LARC)

**LARC 50100 DESIGN VISUALIZATION 3 Credit Hours**

Demonstration and application of computer software that aids the communication skill of a designer.

**Prerequisite:** Landscape architecture major; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**LARC 50101 LANDSCAPE ARCHITECTURE STUDIO I 6 Credit Hours**

Garden Typologies: Beginning studio focused on garden typologies including exploration of small scale design elements and site, with private spaces emphasis.

**Prerequisite:** Landscape architecture major; and graduate standing.

**Schedule Type:** Studio

**Contact Hours:** 12 other

**Grade Mode:** Standard Letter

**LARC 50102 LANDSCAPE ARCHITECTURE STUDIO II 6 Credit Hours**

Neighborhoods: Small scale community design that connects spaces to form neighborhoods and establishes linkages to larger communities.

**Prerequisite:** LARC 50101; and landscape architecture major; and graduate standing.

**Schedule Type:** Studio

**Contact Hours:** 12 other

**Grade Mode:** Standard Letter

**LARC 60103 LANDSCAPE ARCHITECTURE STUDIO III 6 Credit Hours**

Systems and Infrastructure: Natural and hybrid ecological design studio with exploration of the role of systems and the integration into suburban and urban infrastructures with a focus on ecological function and services.

**Prerequisite:** LARC 50102; and landscape architecture major; and graduate standing.

**Schedule Type:** Studio

**Contact Hours:** 12 other

**Grade Mode:** Standard Letter

**LARC 60104 LANDSCAPE ARCHITECTURE STUDIO IV 6 Credit Hours**

Urban Form: Urban design studio at multiple scales to understand the diversity of a city with an emphasis on the relationships of architecture forms, systems, infrastructures, and landscape architecture functions.

**Prerequisite:** LARC 60103; and landscape architecture major; and graduate standing.

**Schedule Type:** Studio

**Contact Hours:** 12 other

**Grade Mode:** Standard Letter

**LARC 60105 LANDSCAPE ARCHITECTURE STUDIO V 6 Credit Hours**

Interdisciplinary or Capstone Studio: Option of a studio with graduate CUDC architecture and urban design students or development of an individual studio project with a selected faculty advisor.

**Prerequisite:** LARC 60104; and graduate standing.

**Schedule Type:** Studio

**Contact Hours:** 12 other

**Grade Mode:** Standard Letter



**LARC 60106 LANDSCAPE ARCHITECTURE STUDIO VI 6 Credit Hours**  
Interdisciplinary or Capstone Studio 2: Option of a studio with graduate CUDC architecture and urban design students or develop individual studio project and select faculty adviser.

**Prerequisite:** LARC 60105; and graduate standing.

**Schedule Type:** Studio

**Contact Hours:** 12 other

**Grade Mode:** Standard Letter-IP

**LARC 60111 LANDSCAPE HISTORY AND THEORY 3 Credit Hours**  
Presentation of important landscape events, people and places to document and explain the factors that influenced the built and natural environments, with emphasis on cultural theories of design and their influence upon the built and natural environments.

**Prerequisite:** Landscape architecture major; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**LARC 60301 SITE ENGINEERING 3 Credit Hours**  
Examination and application of typical engineering strategies for small and large scale landscape projects with a concentration on sustainable practices.

**Prerequisite:** Landscape architecture major; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**LARC 60401 LANDSCAPE ARCHITECTURE CONSTRUCTION METHODS 3 Credit Hours**

Discussion and application of small and large scale construction techniques that explore materials, construction assemblies, construction methods and construction documentation including investigations of lifecycles and maintenance of design decisions.

**Prerequisite:** Landscape architecture major; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**LARC 60601 PLANTS AND PLANTED FORM 3 Credit Hours**

Plant identification with emphasis on individual plants and plant communities as relate to the built environment; integrated into the application of formal and informal design strategies for landscape planning that explores individual plants, plant communities and ecosystems. Further emphasis is placed on the relationships of architecture and interior design to landscape architecture.

**Prerequisite:** Landscape architecture major; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**LARC 60602 URBAN ECOLOGICAL SYSTEMS 3 Credit Hours**

Study of how ecological systems in highly anthropocentric environments provide necessary ecological services. Emphasized is the role that water plays in activating the supporting, provisioning, regulating and cultural ecosystem services required for human well-being.

**Prerequisite:** Landscape architecture major; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**LARC 60798 MASTER PROJECT IN LANDSCAPE ARCHITECTURE RESEARCH 3 Credit Hours**

Development of a rationale and structure for the independent design project to be completed in the final semester of the program.

**Prerequisite:** Graduate standing.

**Schedule Type:** Research

**Contact Hours:** 9 other

**Grade Mode:** Standard Letter

**LARC 60799 MASTERS PROJECT IN LANDSCAPE ARCHITECTURE 6 Credit Hours**

Independent Landscape Architecture design project, completed under the direction of an individual advisor selected from the graduate faculty.

**Prerequisite:** LARC 60105 and Graduate standing.

**Schedule Type:** Project or Capstone

**Contact Hours:** 6 other

**Grade Mode:** Standard Letter

**LARC 60922 METHODS OF INQUIRY IN ARCHITECTURAL STUDIES 2 Credit Hours**

(Cross-listed with AED 60922 and ARCH 60922) Provides a comprehensive coverage of architectural inquiry techniques, including qualitative and quantitative research methods and critical-thinking skills to help students better conduct and understand research.

**Prerequisite:** Landscape architecture major; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**LARC 60923 EMPIRICAL RESEARCH IN ENVIRONMENTAL DESIGN 1 Credit Hour**

(Cross-listed with AED 60923) Introduces student to faculty-directed research in a field within the environmental design domain. Includes lectures by research faculty, readings from primary and review literature, and regular discussions among students, faculty and other research associates working under the direction of a principal investigator.

**Prerequisite:** Landscape architecture major; and graduate standing.

**Corequisite:** LARC 60922.

**Schedule Type:** Lecture

**Contact Hours:** 1 lecture

**Grade Mode:** Standard Letter

**LARC 65003 PROFESSIONAL PRACTICE: LEADERSHIP, ETHICS AND OFFICE MANAGEMENT 3 Credit Hours**

Discusses issues of professional leadership and examines architectural office structures. Management approaches, professional registration and practice, use of consulting engineers and financial management of an office in the profession as business.

**Prerequisite:** Landscape architecture major; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**LARC 66992 FIELD STUDY IN LANDSCAPE ARCHITECTURE 1-3 Credit Hours**

(Repeatable for credit) Field study in landscape architecture.

**Prerequisite:** Graduate standing.

**Schedule Type:** Practical Experience

**Contact Hours:** 3-9 other

**Grade Mode:** Standard Letter



**LARC 66995 SPECIAL TOPICS IN LANDSCAPE ARCHITECTURE 1-3****Credit Hours**

(Repeatable for credit) Special topics in landscape architecture.

**Schedule Type:** Lecture, Research

**Contact Hours:** 1-3 other

**Grade Mode:** Standard Letter

## Latin (LAT)

**LAT 16201 ELEMENTARY LATIN I 4 Credit Hours**

An introduction to the classical Latin language in the context of ancient Roman culture.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 4 lecture

**Grade Mode:** Standard Letter

**LAT 16202 ELEMENTARY LATIN II 4 Credit Hours**

A continuation of the introduction to the classical Latin language in the context of ancient Roman culture.

**Prerequisite:** LAT 16201.

**Schedule Type:** Lecture

**Contact Hours:** 4 lecture

**Grade Mode:** Standard Letter

**LAT 26201 INTERMEDIATE LATIN I: READINGS 3 Credit Hours**

Excerpts from Latin literature with emphasis on translation into English.

**Prerequisite:** LAT 16202.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**LAT 26202 INTERMEDIATE LATIN II: READINGS 3 Credit Hours**

Excerpts from Latin literature with emphasis on both prose (e.g., Caesar, Cicero) and poetry (Vergil, Catullus).

**Prerequisite:** LAT 26201.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**LAT 36170 CICERO 3 Credit Hours**

Readings in Cicero's orations and philosophical works, stressing rhetorical techniques. Consideration of Cicero's role in Roman history and his place in Latin literature.

**Prerequisite:** LAT 26202.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**LAT 36171 VERGIL 3 Credit Hours**

A study of the Latin text of Vergil's Aeneid stressing the poetry of the language. Consideration of entire poem and its impact on Latin literature.

**Prerequisite:** LAT 26202.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**LAT 36172 ADVANCED READINGS IN LATIN 3 Credit Hours**

Readings in the original Latin of prose and poetry authors studied from a literary and grammatical standpoint.

**Prerequisite:** LAT 26202.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**LAT 40393 VARIABLE TITLE WORKSHOP 1-6 Credit Hours**

(Repeatable for credit) Workshops individually designed to provide instruction and training in Latin studies. S u graded.

**Prerequisite:** Departmental permission.

**Schedule Type:** Workshop

**Contact Hours:** 1-6 other

**Grade Mode:** Satisfactory/Unsatisfactory

**LAT 41214 LATIN EPIGRAPHY 3 Credit Hours**

Study of ancient inscriptions (funerary, career, documentary, graffiti, etc.) preserved on any kind of durable material, with focus on cultural information necessary to understand the content and significance of the inscriptions under investigation.

**Prerequisite:** LAT 36170 or LAT 36171; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**LAT 41304 ROMAN HISTORIANS 3 Credit Hours**

(Slashed with LAT 51304) Stylistics and cultural context of Roman historians. Readings from any of the following: Caesar, Livy, Suetonius, Tacitus.

**Prerequisite:** LAT 36170 or LAT 36171; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**LAT 41305 ROMAN COMEDY AND SATIRE 3 Credit Hours**

Stylistics, history and cultural context of Roman comedy and satire. Readings from any of the following: Plautus, Terence, Horace, Juvenal, Persius, Martial.

**Prerequisite:** LAT 36170 or LAT 36171; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**LAT 41306 LATIN EPIC 3 Credit Hours**

(Slashed with LAT 51306) Stylistics, history and cultural context of Latin epic poetry. Readings from any of the following: Vergil, Lucretius, Ovid, Lucan, Statius.

**Prerequisite:** LAT 36170 or LAT 36171; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**LAT 41307 LYRIC AND ELEGIAC POETRY 3 Credit Hours**

(Slashed with LAT 51307) Stylistics, history and cultural context of Latin lyric and elegiac poetry. Readings from any of the following: Catullus, Horace, Propertius, Tibullus, Ovid.

**Prerequisite:** LAT 36170 or LAT 36171; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**LAT 41308 ORATORY AND LETTERS 3 Credit Hours**

Stylistics, history and cultural context of Latin oratory and the Latin epistle. Readings from any of the following: Cicero, Seneca, Pliny.

**Prerequisite:** LAT 36170 or LAT 36171; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**LAT 46095 SELECTED TOPICS IN LATIN 3 Credit Hours**

(Repeatable for credit) Topic announced in the schedule of classes.

**Prerequisite:** LAT 36170 or LAT 36171.**Schedule Type:** Lecture**Contact Hours:** 3 lecture**Grade Mode:** Standard Letter**LAT 46096 INDIVIDUAL INVESTIGATION 1-3 Credit Hours**

(Repeatable for credit) Investigation of problems in Latin literature or linguistics.

**Prerequisite:** Minimum 3 hours of coursework at the 40000-level; and departmental special approval.**Schedule Type:** Individual Investigation**Contact Hours:** 1-3 other**Grade Mode:** Standard Letter-IP**LAT 46211 LATIN PROSE COMPOSITION 3 Credit Hours**

Analysis of prose models; writing of connected Latin prose with attention to the Latin idiom.

**Prerequisite:** LAT 36170 or LAT 36171.**Schedule Type:** Lecture**Contact Hours:** 3 lecture**Grade Mode:** Standard Letter**LAT 46373 ADVANCED PROSE AUTHORS 3 Credit Hours**

(Repeatable for credit) Consideration of a major prose author such as Pliny the Younger, Livy, Tacitus or Suetonius.

**Prerequisite:** LAT 36170 or LAT 36171.**Schedule Type:** Lecture**Contact Hours:** 3 lecture**Grade Mode:** Standard Letter**LAT 50393 VARIABLE TITLE WORKSHOP IN LATIN 1-6 Credit Hours**

(Repeatable for credit) Workshops individually designed to provide instruction and training in Latin studies.

**Prerequisite:** Graduate standing; and special approval.**Schedule Type:** Workshop**Contact Hours:** 1-6 other**Grade Mode:** Satisfactory/Unsatisfactory**LAT 51304 ROMAN HISTORIANS 3 Credit Hours**

(Slashed with LAT 41304) Stylistics and cultural context of Roman historians. Readings from any of the following: Caesar, Livy, Suetonius, Tacitus.

**Prerequisite:** Graduate standing; and special approval.**Schedule Type:** Lecture**Contact Hours:** 3 lecture**Grade Mode:** Standard Letter**LAT 51306 LATIN EPIC 3 Credit Hours**

(Slashed with LAT 41306) Stylistics, history and cultural context of Latin epic. Readings from any of the following: Vergil, Ovid, Lucan, Lucretius, Statius.

**Prerequisite:** Graduate standing; and special approval.**Schedule Type:** Lecture**Contact Hours:** 3 lecture**Grade Mode:** Standard Letter**LAT 51307 LYRIC AND ELEGIAC POETRY 3 Credit Hours**

(Slashed with LAT 41307) Stylistics, history and cultural context of Latin lyric and elegiac poetry. Readings from any of the following. Catullus, Horace, Propertius, Tibullus, Ovid.

**Prerequisite:** Graduate standing; and special approval.**Schedule Type:** Lecture**Contact Hours:** 3 lecture**Grade Mode:** Standard Letter**LAT 56095 SELECTED TOPICS IN LATIN 3 Credit Hours**

(Repeatable for a maximum of 15 credit hours) Topic to be announced in semester schedule of classes.

**Prerequisite:** LAT 36171; and graduate standing.**Schedule Type:** Lecture**Contact Hours:** 3 lecture**Grade Mode:** Standard Letter**LAT 61001 RESEARCH AND WRITING 3 Credit Hours**

Use of lexical tools, bibliographies and corpora specific to research in Classics and Latin. Conventions of scholarship in the discipline of Classics. To be taken in conjunction with a 50000 or 60000-level course in Latin literature.

**Prerequisite:** Graduate standing; and special approval.**Schedule Type:** Lecture**Contact Hours:** 3 lecture**Grade Mode:** Standard Letter**LAT 61214 LATIN EPIGRAPHY 3 Credit Hours**

Study of ancient inscriptions (funerary, career, documentary, graffiti, etc.) preserved on any kind of durable material, with focus on cultural information necessary to understand the content and significance of the inscriptions under investigation.

**Prerequisite:** Graduate standing; and special approval.**Schedule Type:** Lecture**Contact Hours:** 3 lecture**Grade Mode:** Standard Letter**LAT 61305 ROMAN COMEDY AND SATIRE 3 Credit Hours**

Stylistics, history and cultural context of Roman comedy and satire.

Readings from any of the following: Plautus, Terence, Horace, Juvenal, Persius, Martial.

**Prerequisite:** Graduate standing; and special approval.**Schedule Type:** Lecture**Contact Hours:** 3 lecture**Grade Mode:** Standard Letter**LAT 61308 ORATORY AND LETTERS 3 Credit Hours**

Stylistics, history and cultural context of Latin oratory and the Latin epistle. Readings from any of the following: Cicero, Seneca, Pliny.

**Prerequisite:** Graduate standing; and special approval.**Schedule Type:** Lecture**Contact Hours:** 3 lecture**Grade Mode:** Standard Letter**LAT 66199 THESIS I 2-6 Credit Hours**

Thesis students must register for a total of 6 hours, 2 to 6 hours in single semester distributed over several semesters if desired.

**Prerequisite:** Graduate standing.**Schedule Type:** Masters Thesis**Contact Hours:** 2-6 other**Grade Mode:** Satisfactory/Unsatisfactory-IP**LAT 66211 ADVANCED PROSE COMPOSITION 3 Credit Hours**

More thorough training in composition where need is established.

**Prerequisite:** Graduate standing.**Schedule Type:** Lecture**Contact Hours:** 3 lecture**Grade Mode:** Standard Letter

**LAT 66299 THESIS II 2 Credit Hours**

Thesis students must continue registration each semester until all degree requirements are met.

**Prerequisite:** LAT 66199; and graduate standing.

**Schedule Type:** Masters Thesis

**Contact Hours:** 3 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**LAT 66391 SEMINAR IN CLASSICAL LITERATURE 2,3 Credit Hours**

(Repeatable for credit) Topics to be announced.

**Prerequisite:** Graduate standing.

**Schedule Type:** Seminar

**Contact Hours:** 2-3 other

**Grade Mode:** Standard Letter-IP

**LAT 66398 RESEARCH 1-15 Credit Hours**

(Repeatable for credit) Research or individual investigation for master's level graduate students. Credits earned applied toward degree requirements if department approves.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Research

**Contact Hours:** 1-15 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

## Lesbian, Gay, Bisexual, Transgender and Queer Studies (LGBT)

**LGBT 20020 INTRODUCTION TO LESBIAN, GAY, BISEXUAL, TRANSGENDER AND QUEER STUDIES 3 Credit Hours**

Introduction to the field of LGBTQ Studies as well as an introduction to critical issues in LGBTQ lives.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**LGBT 20095 SPECIAL TOPICS IN LGBTQ STUDIES 1-3 Credit Hours**

(Repeatable for credit) Introduction to a current and specialized topic in LGBTQ studies.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 1-3 lecture

**Grade Mode:** Standard Letter

**LGBT 30095 SPECIAL TOPICS IN LGBTQ STUDIES 1-3 Credit Hours**

(Repeatable for credit) Study of special topics related to LGBTQ Studies.

**Prerequisite:** LGBT 20020.

**Schedule Type:** Lecture

**Contact Hours:** 1-3 lecture

**Grade Mode:** Standard Letter

**LGBT 30196 INDIVIDUAL INVESTIGATION IN LGBTQ STUDIES 1-3 Credit Hours**

(Repeatable for credit) Individual investigation in areas of interest not covered in courses.

**Prerequisite:** Junior standing; and special approval.

**Schedule Type:** Individual Investigation

**Contact Hours:** 3-9 other

**Grade Mode:** Standard Letter

**LGBT 40095 SPECIAL TOPICS IN LGBTQ STUDIES 1-3 Credit Hours**

(Repeatable for credit) This course will provide new and emerging topics for students to study.

**Prerequisite:** LGBT 20020 or LGBT 41198.

**Schedule Type:** Lecture

**Contact Hours:** 1-3 lecture

**Grade Mode:** Standard Letter

**LGBT 40192 PRACTICUM IN LGBTQ STUDIES (ELR) 3-6 Credit Hours**

(Repeatable for credit) Guided study of various aspects of the LGBTQ experience through involvement in the community, government agencies, non-profits, educational institutions, and other areas.

**Prerequisite:** Special approval.

**Schedule Type:** Practical Experience

**Contact Hours:** 8-18 other

**Grade Mode:** Standard Letter

**Attributes:** Experiential Learning Requirement

**LGBT 40201 INTRODUCTION TO TRANSGENDER STUDIES 3 Credit Hours**

Serves as an introduction to transgender studies, which addresses theories, practices, laws and other cultural expressions of sexed embodiments, gender identity and gender expression.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**LGBT 40202 QUEER THEORY 3 Credit Hours**

Explores theories related to sexual orientation, gender expression and gender identity.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**LGBT 41198 LGBTQ RESEARCH METHODS (ELR) 3 Credit Hours**

Explores different qualitative and quantitative methodologies through applied research on LGBTQ-related topics.

**Prerequisite:** None.

**Schedule Type:** Lecture, Research

**Contact Hours:** 1 lecture, 2 other

**Grade Mode:** Standard Letter

**Attributes:** Experiential Learning Requirement

## Library and Information Science (LIS)

**LIS 10010 INFORMATION FLUENCY FOR COLLEGE SUCCESS 3 Credit Hours**

Course teaches information-seeking skills critical to college success, enabling students to become information fluent—able to formulate a research question; locate, evaluate and synthesize information from a variety of contexts, including scholarly and other resources; use information effectively and ethically in academic research; and become active contributors to scholarship.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**LIS 30010 INFORMATION FLUENCY IN THE WORKPLACE AND BEYOND**  
**3 Credit Hours**

Course helps students understand, navigate and become full participants in information society. Students go beyond learning basic library and internet skills to understanding issues specific to professional information environments. Emphasis is placed on acknowledging the contextual, dynamic and fluid nature of information to further understand it as a process, commodity and entity. Students examine and critically reflect on the value of using multiple information resources and emerging technologies to fill gaps in academic, professional and personal information contexts.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**LIS 40645 DATABASE FUNDAMENTALS FOR INFORMATION PROFESSIONALS**  
**3 Credit Hours**

(Slashed with LIS 50645) Characteristics and concepts of database; different types of database models; conceptual database design and implementation; the relational database model and its application in practice for information professionals: key issues, principles, and techniques; data storage, processing, retrieval, analysis, and reporting.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**LIS 40655 COPYRIGHT: UNDERSTANDING USER RIGHTS AND RESPONSIBILITIES**  
**3 Credit Hours**

Exploration of advanced copyright topics such as mass digitization, creative arts and other issues in fair use, library, archive and educational uses including the TEACH Act, digital first sale rights, Digital Millennium Copyright Act, and an introduction to copyright reform.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**LIS 40656 LICENSING OF INFORMATION PRODUCTS AND SERVICES**  
**3 Credit Hours**

Topics related to licensing of information products and services including online contract formation, software licenses (End User License Agreements), database and website terms of service, detailed understanding of common terms and conditions in license agreements and an introduction to music licensing and Creative Commons licensing.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**LIS 40693 VARIABLE TITLE WORKSHOP IN LIBRARY AND INFORMATION SCIENCE**  
**1-3 Credit Hours**

(Repeatable for credit) Intensive examination of special topics of interest.

**Prerequisite:** Junior or senior standing; and special approval.

**Schedule Type:** Workshop

**Contact Hours:** 1-3 other

**Grade Mode:** Satisfactory/Unsatisfactory

**LIS 41095 SELECTED TOPICS IN LIBRARY SCIENCE** 1-3 Credit Hours  
(Repeatable for credit) Topics will be announced in schedule of classes. Offered irregularly as resources and opportunities permit.

**Prerequisite:** Permission.

**Schedule Type:** Lecture

**Contact Hours:** 1-3 lecture

**Grade Mode:** Standard Letter

**LIS 50645 DATABASE FUNDAMENTALS FOR INFORMATION PROFESSIONALS**  
**3 Credit Hours**

(Slashed with LIS 40645) Characteristics and concepts of database; different types of database models; conceptual database design and implementation; the relational database model and its application in practice for information professionals: key issues, principles, and techniques; data storage, processing, retrieval, analysis, and reporting.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**LIS 50693 VARIABLE TITLE WORKSHOP-LIBRARY AND INFORMATION SCIENCE**  
**1-3 Credit Hours**

(Repeatable for credit) Maximum workshop credit accepted for MLIS degree is 4 semester hours. Intensive examination of special topics of interest to practicing librarians.

**Prerequisite:** Graduate standing.

**Schedule Type:** Workshop

**Contact Hours:** 1-3 other

**Grade Mode:** Satisfactory/Unsatisfactory

**LIS 60010 THE INFORMATION LANDSCAPE**  
**3 Credit Hours**

Exploration of the nature of information and technology in information-intensive environments. Topics to be addressed include information lifecycle processes such as production, storage, sharing, and consumption; social, cultural, economic, legal, and technological contexts for understanding information processes; the roles of information professionals and agencies, and their place in the larger information marketplace; current and emerging information technologies that shape the information economy.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**LIS 60020 INFORMATION ORGANIZATION**  
**3 Credit Hours**

Introduction to the theory and practice of information organization and retrieval in various information environments. Familiarity with principles, standards, tools and current systems relating to organization of information and retrieval. Exploration of supported information system functions such as searching, browsing, and navigation. Assessment and evaluation of information organization and retrieval systems.

**Prerequisite:** Graduate standing.

**Pre/corequisite:** LIS 60010 or LIS 60607.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**LIS 60030 PEOPLE IN THE INFORMATION ECOLOGY 3 Credit Hours**

Takes a user-centered approach in exploring the information needs and behaviors of people (as individuals and in groups, communities, and institutions) in relation to the larger information ecology that surrounds them. Topics covered include an overview of information ecology; the user-centered paradigm; major information needs and information behavior theories, models, and findings; the landscape of information sources and services for users; factors that influence people's information needs and behaviors; and user empowerment, information ethics, information fluency, and related issues.

**Prerequisite:** Graduate standing.

**Pre/corequisite:** LIS 60010 or LIS 60607.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**LIS 60040 INFORMATION INSTITUTIONS AND PROFESSIONS 3 Credit Hours**

Examines the political, social, economic, and technical forces that influence the larger environments in which information institutions are situated. This course explores characteristics of the environments in which information professionals may work, including but not limited to academic, school, public, and special libraries, museums, archives, cultural heritage institutions, government organizations, corporations across all industries, and information creators and publishers. The course explores characteristics of the information profession including core values and principles, emerging professions, and understanding possible futures in profession, and explores ideas of organizational behavior in information institutions that operate across the institution as a whole, within groups, and within individuals in the organization.

**Prerequisite:** Graduate standing.

**Pre/corequisite:** LIS 60010.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**LIS 60050 RESEARCH AND ASSESSMENT IN LIBRARY AND INFORMATION SCIENCE 3 Credit Hours**

Focuses on quantitative and qualitative research methods applicable to information settings and environments. Explores research design, data analysis, proposal development, and ethical issues.

**Prerequisite:** Graduate standing.

**Pre/corequisite:** LIS 60010 or LIS 60607.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**LIS 60092 MASTER'S INTERNSHIP IN LIBRARY AND INFORMATION SCIENCE 3 Credit Hours**

Under the advisement of a faculty member, students complete a professional-level internship that serves as a culminating experience for the M.L.I.S. degree. A minimum GPA of 3.000 is required for registration in this course.

**Prerequisite:** LIS 60010 and LIS 60020 and LIS 60030 and LIS 60040 and LIS 60050; and 24 credit hours completed in the MLIS program; and Graduate standing and special approval.

**Schedule Type:** Practical Experience

**Contact Hours:** 10 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**LIS 60098 MASTER'S PROJECT IN LIBRARY AND INFORMATION SCIENCE 3 Credit Hours**

Under the advisement of a faculty member, students will complete a master's research project that serves as a culminating experience for the M.L.I.S. degree. A minimum GPA of 3.000 is required for registration in this course.

**Prerequisite:** LIS 60050; and LIS 60010 and LIS 60020 and LIS 60030 and LIS 60040; and 24 credit hours completed in the MLIS program; and Graduate standing and special approval.

**Schedule Type:** Master's Project

**Contact Hours:** 3 lecture

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**LIS 60198 MASTER'S PAPER IN LIBRARY AND INFORMATION SCIENCE 3 Credit Hours**

Under the advisement of a faculty member, students will complete a research paper that serves as a culminating experience for the M.L.I.S. degree. A minimum GPA of 3.000 is required for registration in this course.

**Prerequisite:** LIS 60010 and LIS 60020 and LIS 60030 and LIS 60040 and LIS 60050; and 24 credit hours completed in the MLIS program; and graduate standing; and special approval.

**Schedule Type:** Research

**Contact Hours:** 10 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**LIS 60199 THESIS I 2-6 Credit Hours**

Thesis students must register for a total of 6 hours, 2 to 6 hours in a single semester, distributed over several semesters if desired. Students must have a minimum cumulative GPA of 3.000 to be eligible for this course. In order to qualify for graduation, graduate students must have a 3.000 cumulative GPA in all graduate courses attempted.

**Prerequisite:** LIS 60050; or LIS 60010 and LIS 60020 and LIS 60030 and LIS 60040 and LIS 60050; and 24 hours of LIS coursework; and graduate standing; and special approval.

**Schedule Type:** Masters Thesis

**Contact Hours:** 2-6 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**LIS 60280 MASTER'S PORTFOLIO IN LIBRARY AND INFORMATION SCIENCE 1 Credit Hour**

Completed in a student's last semester. It will include the creation of an electronic portfolio to represent and self-evaluate the student's experience throughout the MLIS program, considering program learning outcomes and preparation for a career in the field of library and information science.

**Prerequisite:** LIS 60010, LIS 60030 and LIS 60050; and LIS 60020 or LIS 60624; and LIS 60040 or LIS 60607; and 24 credit hours completed in the MLIS program; and graduate standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 1 lecture

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**LIS 60299 THESIS II 2 Credit Hours**

Thesis students must continue registration each semester until all degree requirements are met.

**Prerequisite:** LIS 60199; and graduate standing.

**Schedule Type:** Masters Thesis

**Contact Hours:** 2 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP



**LIS 60401 LEADERSHIP IN LIBRARIES AND INFORMATION CENTERS 3 Credit Hours**

This course will review the concept of leadership while delving into its relationship to and differences from management, and its application in the personal and professional lives of information professionals. Beginning with an examination of personal leadership styles, the course will review the major philosophies of leadership thought that affect the library and information fields, the role of mentors, team building, project management, the moral and ethical responsibilities of leading others and leading through change in the information world.

**Prerequisite:** LIS 60040; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**LIS 60510 DIGITAL TECHNOLOGIES I: DATA FUNDAMENTALS 1 Credit Hour**

The first of three one-credit courses in digital technologies, this course presents foundational knowledge on the principles that underlie digital resources and services in modern information society, with specific emphasis on data representation, encoding, formatting, and data modeling.

**Prerequisite:** Graduate standing.

**Pre/corequisite:** LIS 60010; or UXD 60001; or KM 60301; or HI 60401.

**Schedule Type:** Lecture

**Contact Hours:** 1 lecture

**Grade Mode:** Standard Letter

**LIS 60511 DIGITAL TECHNOLOGIES II: INTERNET FUNDAMENTALS 1 Credit Hour**

The second of three one-credit courses in digital technologies, this course presents foundational knowledge on the principles that underlie digital resources and services in modern information society, with specific emphasis on online information systems, the Internet, and data security.

**Prerequisite:** Graduate standing.

**Pre/corequisite:** LIS 60510.

**Schedule Type:** Lecture

**Contact Hours:** 1 lecture

**Grade Mode:** Standard Letter

**LIS 60512 DIGITAL TECHNOLOGIES III: INFORMATION SYSTEMS FUNDAMENTALS 1 Credit Hour**

The third of three one-credit courses in digital technologies, this course presents foundational knowledge on the principles that underlie digital resources and services in modern information society, with specific emphasis on Web-based information applications, programming logic, Linked Data, and the interpretation of data.

**Prerequisite:** Graduate standing.

**Pre/corequisite:** LIS 60511.

**Schedule Type:** Lecture

**Contact Hours:** 1 lecture

**Grade Mode:** Standard Letter

**LIS 60601 INFORMATION SOURCES AND REFERENCE SERVICES 3 Credit Hours**

(Slashed with LIS 80601) Introduction to use and evaluation of basic sources of reference information, computerized and noncomputerized; reference interview and question-negotiation techniques; administration of reference and information services.

**Prerequisite:** LIS 60030; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**LIS 60602 RESOURCE DESCRIPTION AND ACCESS 3 Credit Hours**

Theoretical foundation, principles, core concepts, and practical application of current standards and conceptual models for the description (descriptive cataloging) of a variety of resources in information institutions. Topics include history and principles of descriptive cataloging standards, best practices documentation, resource discovery, authority work, encoding standards and structures, linked data, ethical issues, as well as current topics in resource description and access, such as emerging technologies and future directions.

**Prerequisite:** LIS 60020; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**LIS 60603 SUBJECT ANALYSIS, REPRESENTATION AND ACCESS 3 Credit Hours**

The course focuses on the theories, principles, and practices of subject analysis of the intellectual content of information resources and its representation through controlled vocabularies and classification. It covers fundamental concepts of aboutness, vocabulary control, classification theory, ethical considerations, and the theoretical foundations, structure, and the application of major subject vocabularies (LCSH), classification schemes (DDC and LCC), and other knowledge organization systems. The course also includes examinations of authority control for subject headings.

**Prerequisite:** LIS 60020; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**LIS 60607 SCHOOL LIBRARY MANAGEMENT 3 Credit Hours**

School Library Management focuses on theoretical and practical aspects of school library management. This course provides a foundation for the completion of a successful culminating experience practicum and licensure exam for School Library Media licensure K-12. The course content delivery, exploration activities and completion of assignments have been aligned with state of Ohio and the American Association of School Librarians national school library media standards and guidelines.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**LIS 60608 THE PUBLIC LIBRARY 3 Credit Hours**

(Slashed with LIS 80608) Analysis of the historical, sociopolitical, technological, fiscal and organizational factors affecting American public librarianship. Includes evaluation, planning, networking, funding, automation, buildings and censorship.

**Prerequisite:** LIS 60040; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**LIS 60609 MARKETING THE LIBRARY 3 Credit Hours**

(Slashed with LIS 80609) Introduction to the theory and practice of marketing the library. Topics include the evaluation of customer needs, the marketing mix, merchandising, public relations, relationship marketing, and the design and development of a marketing plan for libraries.

**Prerequisite:** Graduate standing.

**Pre/corequisite:** LIS 60010.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**LIS 60611 GOVERNMENT INFORMATION SOURCES AND SERVICES****3 Credit Hours**

(Slashed with LIS 80611) Library treatment of U.S. government publications with brief attention to municipal and state publications, and major documents of Great Britain, Canada and the United Nations.

**Prerequisite:** LIS 60030; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**LIS 60612 LIBRARY MATERIALS AND SERVICES FOR ADULTS 3 Credit Hours**

(Slashed with LIS 80612) Recent investigations of group and individual reading habits; advisory services in various types of libraries; library programs for adult education; projection of library materials toward community.

**Prerequisite:** Graduate standing.

**Pre/corequisite:** LIS 60010.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**LIS 60613 INFORMATION NEEDS, SEEKING AND USE 3 Credit Hours**

(Slashed with LIS 80613) Surveys theories and research related to people's interactions with information. The theories covered include information context and situation, information needs, information seeking, exploration of information sources, communication and collaboration in the information search process, information use, and other interactions among people, information, and information systems.

**Prerequisite:** LIS 60030; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**LIS 60614 SELECTION AND ACQUISITION OF LIBRARY MATERIALS 3 Credit Hours**

(Slashed with LIS 80614) Factors affecting selection in public, academic, school and special libraries (reading habits, censorship, publishing trends) community analysis, selection policies and process; selection sources; acquisitions.

**Prerequisite:** Graduate standing.

**Pre/corequisite:** LIS 60010.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**LIS 60615 THE ACADEMIC LIBRARY 3 Credit Hours**

(Slashed with LIS 80615) Governance, administration and services of libraries in institutions of postsecondary education.

**Prerequisite:** LIS 60040; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**LIS 60616 THE SPECIAL LIBRARY 3 Credit Hours**

(Slashed with LIS 80616) The formation of special libraries. Libraries in special subject fields and in organizations: corporations, government agencies, hospitals, etc. Internal organization and administration collection development and services.

**Prerequisite:** LIS 60040; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**LIS 60618 INFORMATION LITERACY INITIATIVES AND INSTRUCTION 3 Credit Hours**

(Slashed with LIS 80618) Invites information professionals from any library point-of-view (school, public, academic, archives, special, etc.). Topics include definitions and history of information literacy standards and objectives, developing an information literacy agenda, library pedagogy and learning styles, information literacy needs assessment, program development and delivery, and experiential learning in library communities.

**Prerequisite:** LIS 60030; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**LIS 60619 LEGAL INFORMATION SOURCES AND SERVICES 3 Credit Hours**

(Cross-listed with AS 43001 and AS 53001 and AS 73001) (Slashed with LIS 80619) Fundamentals of legal research methods and major sources of American legal literature in print and electronic formats as used in other disciplines. Students learn how to formulate a research plan based on legal analysis of issues using relevant, authoritative legal resources.

**Prerequisite:** LIS 60030; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**LIS 60620 HEALTH INFORMATION RESOURCES 3 Credit Hours**

(Slashed with LIS 80620) Identifies print and electronic sources of health information with emphasis on electronic sources. Medical patient and consumer health information is presented. This course is designed for the health educator, librarian, nurse or other health care professional.

**Prerequisite:** Graduate standing.

**Pre/corequisite:** LIS 60010.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**LIS 60621 SOCIAL SCIENCES INFORMATION SOURCES AND SERVICES 3 Credit Hours**

(Slashed with LIS 80621) Content, bibliographic structure and communication patterns in the social sciences with emphasis on information sources and services in sociology, history, education, political science, anthropology, related disciplines.

**Prerequisite:** LIS 60030; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**LIS 60622 SCIENCE/TECHNOLOGY INFORMATION SOURCES AND SERVICES 3 Credit Hours**

(Slashed with LIS 80622) Content, bibliographic structure and communication patterns in the sciences with emphasis on pure and applied fields, e.g., mathematics, biology, physics.

**Prerequisite:** LIS 60030; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**LIS 60623 BUSINESS/FINANCE INFORMATION SOURCES AND SERVICES 3 Credit Hours**

(Slashed with LIS 80623) Historical development; applications to current business, labor, governmental, educational and sociological information needs; interpretation to executives and others; printed sources and databases.

**Prerequisite:** LIS 60030; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**LIS 60624 CATALOGING FOR SCHOOL LIBRARIES 3 Credit Hours**

(Slashed with LIS 80624) Organization and administration of print and non-print materials in school libraries. Application of appropriate descriptive cataloging rules, subject headings and classification policies for children's, teen and educational materials K-12.

**Prerequisite:** Graduate standing.

**Pre/corequisite:** LIS 60010 or LIS 60607.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**LIS 60625 ENGAGING YOUNG CHILDREN AND FAMILIES 3 Credit Hours**

(Slashed with LIS 80625) Selection and utilization of materials in relation to needs, abilities and interests of the young child.

**Prerequisite:** Graduate standing.

**Pre/corequisite:** LIS 60010.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**LIS 60626 ENGAGING TEENS 3 Credit Hours**

(Slashed with LIS 80626) Selection and utilization of books and materials in relation to needs, abilities and interests of teens.

**Prerequisite:** Graduate standing.

**Pre/corequisite:** LIS 60010 or LIS 60607.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**LIS 60627 ART AND STORY: THE STUDY OF CHILDREN'S PICTUREBOOKS 3 Credit Hours**

(Slashed with LIS 80627) Engages students in the study and application of art and story in children's picturebooks through the lenses of book history, publishing studies, children's book illustration and storytelling, visual literacy and visual storytelling. Readers of picturebooks are studied as well, from professional readers, like librarians and book reviewers, to picturebook consumers.

**Prerequisite:** Graduate standing.

**Pre/corequisite:** LIS 60010.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**LIS 60628 HUMANITIES INFORMATION SOURCES AND SERVICES 3 Credit Hours**

(Slashed with LIS 80628) Philosophy, literature, fine and performing arts.

**Prerequisite:** LIS 60030; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**LIS 60629 ENGAGING SCHOOL-AGE CHILDREN 3 Credit Hours**

(Slashed with LIS 80629) Selection and utilization of materials in relation to needs, abilities and interests of school age children.

**Prerequisite:** Graduate standing.

**Pre/corequisite:** LIS 60010 or LIS 60607.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**LIS 60630 REFERENCE SOURCES AND SERVICES FOR YOUTH 3 Credit Hours**

(Slashed with LIS 80630) Organization and administration of information sources and information services for children and young adults (K-12). Evaluation selection and utilization of print and electronic sources.

**Prerequisite:** Graduate standing.

**Pre/corequisite:** LIS 60010 or LIS 60607.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**LIS 60631 INTRODUCTION TO DIGITAL PRESERVATION 3 Credit Hours**

Approaches and standards for preserving and maintaining access to digitized and born-digital text, images, data, audiovisual information, and web resources. Topics include longevity of digital media, selection for preservation; formats and strategies for preservation; preservation metadata; integrity and authenticity of digital materials; establishment and certification of trustworthy digital repositories; risk management; and policy development.

**Prerequisite:** LIS 60020 and LIS 60511; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**LIS 60633 DIGITAL CURATION 3 Credit Hours**

(Slashed with LIS 80633) Management and preservation of digital objects and records throughout their lifecycle. Essential technologies and standards for building and maintaining robust, trusted digital repositories. Emphasizes the use and reuse of scholarly data, business and government records, cultural heritage materials, and other digital objects to create resources supporting communities of practice in their work.

**Prerequisite:** LIS 60511; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**LIS 60635 CULTURAL HERITAGE INFORMATICS 3 Credit Hours**

(Slashed with LIS 80635) Cultural heritage informatics brings a comprehensive, cross-disciplinary approach to supporting the entire lifecycle of cultural heritage information and documentation procedures for the benefit of the preservation, study, and promotion of cultural heritage. The course covers methods of creating descriptions for cultural objects, as well as organizing, delivering, and presenting the cultural heritage (tangible, intangible, and digital) resources in the digital age. The course aims to prepare students for careers focusing on or transcending libraries, archives, museums (LAMs), historical societies, and other cultural institutions by introducing them the methodologies and technologies commonly used in cultural heritage informatics and can be broadly implemented in LAMs.

**Prerequisite:** LIS 60020; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**LIS 60636 KNOWLEDGE ORGANIZATION STRUCTURES, SYSTEMS AND SERVICES 3 Credit Hours**

(Slashed with LIS 80636) Introduction to various types of knowledge organization systems, services, and structures (KOS) used in the networked environment. Understanding of the functional philosophical, logical, and linguistic fundamentals of KOS. Explanation of design options, features of KOS, and procedures to be used in the thesaurus, taxonomy and ontology construction.

**Prerequisite:** LIS 60020; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**LIS 60637 METADATA ARCHITECTURE AND IMPLEMENTATION 3 Credit Hours**

(Slashed with LIS 80637) Principles and theories of metadata development in the digital environment. Main focus is given to the design and applications of metadata schemas for distinct domains and information communities, issues in metadata interoperability, vocabulary control, quality control and evaluation. Examination of international standards, activities and projects with the use of case study approach.

**Prerequisite:** LIS 60020; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**LIS 60638 DIGITAL LIBRARIES 3 Credit Hours**

(Slashed with LIS 80638) This course introduces a broad set of issues involved in the development and maintenance of digital libraries, including policy development, technology, collection development, project management, user-centered design, digitization, metadata, and interoperability.

**Prerequisite:** LIS 60512; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**LIS 60639 IMPLEMENTATION OF DIGITAL LIBRARIES 3 Credit Hours**

(Slashed with LIS 80639) Explores issues related to implementation of digital libraries and provides hands-on experience for student to build digital library prototypes (small-scale) with open source software. Emphasis is on design and implementation of key digital library functions, including building digital collections, defining and creating metadata, indexing, browsing and retrieval, customizing interface, implementing services, encoding and transforming for data exchange, and testing the usability and effectiveness.

**Prerequisite:** LIS 60638; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**LIS 60640 LIBRARY AUTOMATION 3 Credit Hours**

(Slashed with LIS 80640) Analysis, design and selection of automated library systems. Considers system analysis and requirements, networking technologies, database management systems, multimedia and hypermedia, and client-server computing. Also, proposals to vendors, contract negotiation, implementation, staffing, training, system maintenance and evaluation.

**Prerequisite:** LIS 60020; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**LIS 60641 INFORMATION STORAGE AND RETRIEVAL SYSTEMS 3 Credit Hours**

(Slashed with LIS 80641) Fundamentals of information retrieval models and methods, including information storage structures, full-text indexing, structured indexes, search engines and web retrieval, human-computer interaction, and the user's experience, system performance and evaluation.

**Prerequisite:** LIS 60512; and graduate standing; and special approval.

**Pre/corequisite:** LIS 60010.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**LIS 60643 ONLINE INFORMATION SYSTEMS 3 Credit Hours**

(Slashed with LIS 80643) Use of information technologies to search for and retrieve electronic information, primarily through the Internet. Analysis of database structures and electronic records; search principles and heuristics; database system producers; system interfaces; and evaluation of results.

**Prerequisite:** LIS 60030; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**LIS 60649 INDEXING AND ABSTRACTING 3 Credit Hours**

(Slashed with LIS 80649) Principles and methods of manual and computerized indexing and abstracting applied to I & A databases, back of book indexes, website indexes and sitemaps. Techniques of constructing indexing languages using international standards. Theory and practice of index design for specific formats and subjects. Automation and I & A services in networked environments.

**Prerequisite:** LIS 60020; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**LIS 60650 INFORMATION POLICY 3 Credit Hours**

(Slashed with LIS 80650) Political, economic, cultural and legal issues regarding the production, distribution and use of information (print, electronic and Web). Policy-making process, standards and protocols, intellectual property, information economy, impact of computers on access and policy, privacy rights, transnational flow of information and the Internet and the World Wide Web.

**Prerequisite:** LIS 60040; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**LIS 60651 DIGITAL IMAGE PROCESSING AND COLLECTION MANAGEMENT 3 Credit Hours**

(Slashed with LIS 80651) This course is designed to introduce students to the fundamental concepts, terminology, techniques and applications of digital imaging as they relate to the development of digital image collections depicting works found in museum collections, archives and special collections in libraries. The students will acquire knowledge and skills necessary to design, create, and manage digital images of text, graphics, slides and reproductions of 3-D objects. They will also be introduced to the principles and issues that pertain to the creation and distribution of digital image archives via image databases and the Web environment.

**Prerequisite:** LIS 60020; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**LIS 60652 FOUNDATIONS OF RECORDKEEPING IN SOCIETY 3 Credit Hours**

(Slashed with LIS 80652) An introduction to the core principles and practices of recordkeeping and the multiple and complex roles records and archives play in identity, evidence, transparency, memory, accountability, equity, representation and trust in society. This course covers historical and contemporary recordkeeping contexts related to individuals, family, community, organization, corporate, academia and government, as well as traditional, nontextual and digital formats of records and archives.

**Prerequisite:** Graduate standing.

**Pre/corequisite:** LIS 60010; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**LIS 60653 INFORMATION SOURCES AND SERVICES IN LOCAL HISTORY AND GENEALOGY 3 Credit Hours**

Introduces primary and secondary resources and materials to promote and perform reference services in genealogy and local history through lectures, readings, discussion, and practical exercises. The course will use primary and secondary materials available to librarians and archivists in libraries, archives, historical societies and on the Internet.

**Prerequisite:** LIS 60030; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**LIS 60654 PRESERVATION AND CONSERVATION OF HERITAGE MATERIALS 3 Credit Hours**

(Slashed with LIS 80654) Types and causes of deterioration of various kinds of library, archival, and museum collections; storage and preventive care, preservation through photographic reproduction and digital conversion, and conservation of rare materials.

**Prerequisite:** Graduate standing.

**Pre/corequisite:** LIS 60010.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**LIS 60655 COPYRIGHT: UNDERSTANDING USER RIGHTS AND RESPONSIBILITIES 3 Credit Hours**

(Slashed with LIS 80655) Exploration of advanced copyright topics such as mass digitization, creative arts and other issues in fair use, library, archive and educational uses including the TEACH Act, digital first sale rights, Digital Millennium Copyright Act, and an introduction to copyright reform.

**Prerequisite:** Graduate standing.

**Pre/corequisite:** LIS 60010.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**LIS 60656 LICENSING OF INFORMATION PRODUCTS AND SERVICES 3 Credit Hours**

(Slashed with LIS 80656) Topics related to licensing of information products and services including online contract formation, software licenses (End User License Agreements), database and website terms of service, detailed understanding of common terms and conditions in license agreements and an introduction to music licensing and Creative Commons licensing.

**Prerequisite:** Graduate standing.

**Pre/corequisite:** LIS 60010.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**LIS 60657 THEORY AND METHODS OF ARCHIVAL ACQUISITION, SELECTION AND APPRAISAL 3 Credit Hours**

(Slashed with LIS 80657) This course provides a comprehensive introduction to the theory, methods and traditions employed by records professionals to form and shape archives as societal memory. This course focusses primarily on acquisition, selection, documentation and appraisal theory and methods. Students will also examine contemporary records frameworks and approaches and issues faced by archivists, special collections librarians and manuscript curators employed to identify, evaluate, acquire and dispose of records.

**Prerequisite:** LIS 60652; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**LIS 60661 TECHNICAL SERVICES 3 Credit Hours**

(Slashed with LIS 80661) Principles, problems and current issues of acquiring, processing and preserving/conserving materials in libraries and information centers.

**Prerequisite:** LIS 60020; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**LIS 60664 MUSIC INFORMATION AND LIBRARIANSHIP 3 Credit Hours**

Introduction to music information and librarianship in library and archival settings. Includes discussion of issues relating to acquisition, cataloging, retrieval, use, and management of music information and resources both traditional and digital.

**Prerequisite:** LIS 60030; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**LIS 60665 RARE BOOKS AND SPECIAL COLLECTIONS 3 Credit Hours**

(Slashed with LIS 80665) Study of the theory and practice of rare books and special collections librarianship. Topics to be addressed include identification and description of collections, history of the book, valuation, collection development, preservation, security, access and discovery, promotion and outreach, and administration of collections and resources.

**Prerequisite:** LIS 60010; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter



**LIS 60666 ETHICAL CONCERNS OF LIBRARY AND INFORMATION PROFESSIONALS 3 Credit Hours**

(Slashed with LIS 80666) Analysis of ethical concerns of information professionals: codes of ethics, intellectual freedom, free access, privacy, confidentiality, computer issues and relations with management, clients and colleagues.

**Prerequisite:** LIS 60040; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**LIS 60668 INTERNATIONAL LIBRARIANSHIP AND INFORMATION SERVICES 3 Credit Hours**

(Slashed with LIS 80668) Main theoretical traditions, concepts, and in-depth understanding of international librarianship (library communication on international issues) and comparative librarianship (comparative study of information services in specific contexts) through the study of international cooperation, influences, development aid, international organizations and associations, differences, major issues facing library and information services within their socio-economic, political, and cultural contexts, and innovations to solve these issues across the world.

**Prerequisite:** Graduate standing.

**Pre/corequisite:** LIS 60010.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**LIS 60675 YOUTH LITERATURE IN THE DIGITAL REALM 3 Credit Hours**

From apps, to eBooks, to multi-platform books, to books with augmented reality, new digital formats extend books across media platforms, and provide readers with new, interactive ways of engaging with texts.

However, the proliferation of new media formats means there are just as many questions related to their selection, evaluation, and use. This course aims to answer those questions and to critically examine digital formats and related implications for stakeholders in the field of literary production for young people, including librarians, publishers, authors, illustrators, and readers.

**Prerequisite:** Graduate standing.

**Pre/corequisite:** LIS 60010.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**LIS 60691 SEMINAR IN LIBRARY SCIENCE 1-3 Credit Hours**

(Repeatable for credit) (Slashed with LIS 80691) Advanced research by small groups of students who are qualified to examine problems of certain special areas.

**Prerequisite:** Graduate standing.

**Schedule Type:** Seminar

**Contact Hours:** 1-3 other

**Grade Mode:** Standard Letter

**LIS 60692 INTERNSHIP IN INFORMATION AND CULTURAL HERITAGE INSTITUTIONS 2,3 Credit Hours**

(Repeatable for credit) Supervised experience of a professional nature of not less than 100 clock hours for 2 credit hours or not less than 150 hours for 3 credit hours in an information or cultural heritage institution. Deliverables determined with instructor of record. Maximum registration of 2-3 credit hours per semester. No more than a total of 6 credit hours of Internship or Individual Investigation or any combination of the two may count toward MLIS degree requirements.

**Prerequisite:** LIS 60040; and graduate standing; and special approval.

**Schedule Type:** Practical Experience

**Contact Hours:** 6-9 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**LIS 60693 VARIABLE TITLE WORKSHOP-LIBRARY AND INFORMATION SCIENCE 1-3 Credit Hours**

(Repeatable for credit) Intensive examination of special topics of interest to practicing librarians. May be repeated. Maximum workshop credit accepted for MLIS degree is 4 semester hours.

**Prerequisite:** Graduate standing.

**Schedule Type:** Workshop

**Contact Hours:** 1-3 other

**Grade Mode:** Satisfactory/Unsatisfactory

**LIS 60695 SPECIAL PROBLEMS IN LIBRARY SCIENCE 1-10 Credit Hours**

(Repeatable for credit) (Slashed with LIS 80695) Individual research at high levels of specialization. Intended for persons in sixth year program.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 1-10 lecture

**Grade Mode:** Standard Letter-IP

**LIS 60700 FOUNDATIONS OF MUSEUM STUDIES 3 Credit Hours**

(Slashed with LIS 80700) Intended for those interested in learning more about museums or specializing in museum studies. The goal is to introduce students to various aspects of all types of museums as dynamic networked systems positioned around objects, people and ideas. Covers history and types of museums, the roles of objects and ideas, structure, function, museum workers and users, and the purpose and future of museums.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**LIS 60701 MUSEUM COLLECTIONS 3 Credit Hours**

(Slashed with LIS 80701) This course introduces students to the organization, care and meaning of objects held in museum collections. Through both theoretical and practical concepts, basic collection management and registration skills are introduced. In conjunction, students explore the meanings made of museum objects.

**Prerequisite:** LIS 60700; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**LIS 60702 MUSEUM COMMUNICATION 3 Credit Hours**

(Slashed with LIS 80702) Museums communicate to the public in a multitude of ways: interpretation, exhibition, publication, educational programming and using a web presence. This course introduces important concepts, theories, applications, processes and technology used in museum interpretation and communication. Students are provided with a balance of practical techniques with thoughtful conceptual exploration.

**Prerequisite:** LIS 60700; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**LIS 60703 MUSEUM USERS 3 Credit Hours**

(Slashed with LIS 80703) Families, individuals and students visit museums and community institutions for a variety of purposes including leisure, education and curiosity. Introduction to the research and theory on museum user experience. Inquiry involves examining notions of learning, engagement, and transformative experiences of users, characteristics of users and the social dynamics of the museum experience. In addition, reviews several programmatic techniques and methods used in museums to increase engagement and learning for patrons.

**Prerequisite:** LIS 60700; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**LIS 60704 THE MUSEUM SYSTEM 3 Credit Hours**

(Slashed with LIS 80704) Museums are by their very nature complex and dynamic systems composed of people, objects and activities. Comprised of an "outer" subsystem and an "inner" subsystem, the museum as a whole functions as an organic body, with all of its parts working together to function successfully. This system exists within a larger landscape, one filled increasingly with new types of interactions, unlimited access and constant feedback. This course explores this holistic system from both practical and conceptual viewpoints, examining the role of administration throughout the system as well as considering current issues such as sustainability, advocacy and relationships with community and users add to an overall understanding of the museum system.

**Prerequisite:** LIS 60700; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**LIS 60705 MUSEUM ORIGINS 3 Credit Hours**

(Slashed with LIS 80705) While the collecting of objects can be found as far back as ancient times in various parts of the world, the birth of the modern museum finds its roots in Europe. In the context of today's world, students will "go back in time" to understand the origins of western museums and the creation, use, and meaning of publicly shared collections over time. Students will explore the history of the modern museum and spend time visiting actual sites and collections that played a role in this history. Exploring the past in this way is geared specifically to help today's museum workers gain a better understanding of their own role and purpose in their community, society, and nation.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**LIS 60792 CULMINATING EXPERIENCE PRACTICUM IN K-12 LIBRARIES 3 Credit Hours**

Under the advisement of a faculty member, students complete a professional-level practicum that serves as a culminating experience for the M.L.I.S. degree.

**Prerequisite:** LIS 60607 or LIS 60040; and LIS 60624 or LIS 60020; and LIS 60618, LIS 60626, LIS 60629, LIS 60630 and LIS 60050; and minimum 3.000 overall GPA; and 24 hours completed in the MLIS degree program; or school library media program; and graduate standing; and special approval.

**Schedule Type:** Practical Experience

**Contact Hours:** 9 other

**Grade Mode:** Standard Letter-IP

**LIS 60892 CULMINATING EXPERIENCE FOR DUAL DEGREE 6 Credit Hours**

Culminating experience for students pursuing dual degree in M.Ed. and MLIS and K-12 School Library Media licensure. Must be in a supervised educational library or information center.

**Prerequisite:** ADED 62145, CI 67310, CI 67330, EPSY 65524, LIS 60030, LIS 60050, LIS 60618, LIS 60630 and SPED 63200; and LIS 60607 or LIS 60040; and LIS 60020 or LIS 60624; and graduate standing; and special approval.

**Schedule Type:** Practical Experience

**Contact Hours:** 18 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**LIS 61095 SELECTED TOPICS IN LIBRARY SCIENCE 1-3 Credit Hours**

(Repeatable for credit) (Slashed with LIS 81095) Offered irregularly as resources and/or opportunities permit. Topics will be announced in the schedule of classes.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 1-3 lecture

**Grade Mode:** Standard Letter

**LIS 61096 INDIVIDUAL INVESTIGATION 1-3 Credit Hours**

(Repeatable for credit) Research or individual investigation for master's level graduate students. Deliverables determined with instructor of record. Maximum registration of 1-3 credit hours per semester. Students may count a maximum of 6 credit hours of individual investigation toward their MLIS degree requirements. No more than a total of 6 credit hours of Internship or Individual Investigation or any combination of the two may count toward MLIS degree requirements.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Individual Investigation

**Contact Hours:** 1-3 other

**Grade Mode:** Standard Letter-IP

**LIS 80601 INFORMATION SOURCES AND REFERENCE SERVICES 3 Credit Hours**

(Slashed with LIS 60601) Introduction to use and evaluation of basic sources of reference information, computerized and noncomputerized; reference interview and question-negotiation techniques; administration of reference and information services.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**LIS 80602 CATALOGING AND CLASSIFICATION I 3 Credit Hours**

Principles of cataloging with emphasis on Dewey Decimal and Library of Congress Classification systems, Library of Congress subject headings, online cataloging and administration.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**LIS 80607 SCHOOL LIBRARY MANAGEMENT 3 Credit Hours**

(Slashed with LIS 60607) Management of school libraries.

**Prerequisite:** Doctoral standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**LIS 80608 THE PUBLIC LIBRARY 3 Credit Hours**

(Slashed with LIS 60608) Analysis of the historical, sociopolitical, technological, fiscal and organizational factors affecting American public librarianship. Includes evaluation, planning, networking, funding, automation, buildings and censorship.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**LIS 80609 MARKETING THE LIBRARY 3 Credit Hours**

(Slashed with LIS 60609) Introduction to the theory and practice of marketing the library. Topics include the evaluation of customer needs, the marketing mix, merchandising, public relations, relationship marketing, and the design and development of a marketing plan for libraries.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**LIS 80611 GOVERNMENT INFORMATION SOURCES AND SERVICES 3 Credit Hours**

(Slashed with LIS 60611) Library treatment of U.S. government publications, with brief attention to municipal and state publications, and major documents of Great Britain, Canada and the United Nations. Will not include materials covered in LIS 60601/LIS 80601.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**LIS 80612 LIBRARY MATERIALS AND SERVICES FOR ADULTS 3 Credit Hours**

(Slashed with LIS 60612) Recent investigations of group and individual reading habits; advisory services in various types of libraries; library programs for adult education; projection of library materials toward community.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**LIS 80613 INFORMATION NEEDS, SEEKING AND USE 3 Credit Hours**

(Slashed with LIS 60613) Surveys theories and research related to people's interactions with information. The theories covered include information context and situation, information needs, information seeking, exploration of information sources, communication and collaboration in the information search process, information use, and other interactions among people, information, and information systems.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**LIS 80614 SELECTION AND ACQUISITION OF LIBRARY MATERIALS 3 Credit Hours**

(Slashed with LIS 60614) Factors affecting selection in public, academic, school and special libraries (reading habits, censorship, publishing trends); community analysis, selection policies and process; selection sources; acquisitions.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**LIS 80615 THE ACADEMIC LIBRARY 3 Credit Hours**

(Slashed with LIS 60615) Governance, administration and services of libraries in institutions of postsecondary education.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**LIS 80616 THE SPECIAL LIBRARY 3 Credit Hours**

(Slashed with LIS 60616) The formation of special libraries. Libraries in special subject fields and in organizations: corporations, government agencies, hospitals, etc. Internal organization and administration, collection development and services.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**LIS 80618 INFORMATION LITERACY INITIATIVES AND INSTRUCTION 3 Credit Hours**

(Slashed with LIS 60618) Invites information professionals from any library point-of-view (school, public, academic, archives, special, etc.). Topics include definitions and history of information literacy standards and objectives, developing an information literacy agenda, library pedagogy and learning styles, information literacy needs assessment, program development and delivery, and experiential learning for students in library communities.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**LIS 80619 LEGAL INFORMATION SOURCES AND SERVICES 3 Credit Hours**

(Slashed with LIS 60619) (Cross-listed with AS 43001 and AS 53001 and AS 73001) Fundamentals of legal research methods and major sources of American legal literature in print and electronic formats as used in other disciplines. Students learn how to formulate a research plan based on legal analysis of issues using relevant, authoritative legal resources.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**LIS 80620 HEALTH INFORMATION RESOURCES 3 Credit Hours**

(Slashed with LIS 60620) Identifies print and electronic sources of health information with emphasis on electronic sources. Medical patient and consumer health information is presented. This course is designed for the health educator, librarian, nurse or other healthcare professional.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**LIS 80621 SOCIAL SCIENCES INFORMATION SOURCES AND SERVICES 3 Credit Hours**

(Slashed with LIS 60621) Content, bibliographic structure and communication patterns in the social sciences with emphasis on information sources and services in sociology, history, education, political science, anthropology, related disciplines.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**LIS 80622 SCIENCE AND TECHNOLOGY INFORMATION SOURCES AND SERVICES 3 Credit Hours**

(Slashed with LIS 60622) Content, bibliographic structure and communication patterns in the sciences with emphasis on pure and applied fields, e.g., mathematics, biology, physics.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**LIS 80623 BUSINESS AND FINANCE INFORMATION SOURCES AND SERVICES 3 Credit Hours**

(Slashed with LIS 60623) Historical development; applications to current business, labor, governmental, educational and sociological information needs; interpretation to executives and others; printed sources and databases.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**LIS 80624 CATALOGING FOR SCHOOL LIBRARIES 3 Credit Hours**

(Slashed with LIS 60624) Organization and administration of print and non-print materials in school libraries. Application of appropriate descriptive cataloging rules, subject headings and classification policies for children's, teen and educational materials K-12.

**Prerequisite:** Doctoral standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**LIS 80625 ENGAGING YOUNG CHILDREN AND FAMILIES 3 Credit Hours**

(Slashed with LIS 60625) Selection and utilization of materials in relation to needs, abilities and interests of the young child.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**LIS 80626 ENGAGING TEENS 3 Credit Hours**

(Slashed with LIS 80626) Selection and utilization of books and materials in relation to needs, abilities and interests of teens.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**LIS 80627 ART AND STORY: THE STUDY OF CHILDREN'S PICTUREBOOKS 3 Credit Hours**

(Slashed with LIS 60627) Engages students in the study and application of art and story in children's picturebooks through the lenses of book history, publishing studies, children's book illustration and storytelling, visual literacy and visual storytelling. Readers of picturebooks are studied as well, from professional readers, like librarians and book reviewers, to picturebook consumers.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**LIS 80628 HUMANITIES INFORMATION SOURCES AND SERVICES 3 Credit Hours**

(Slashed with LIS 60628) Philosophy, literature, fine and performing arts.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**LIS 80629 ENGAGING SCHOOL-AGE CHILDREN 3 Credit Hours**

(Slashed with LIS 60629) Selection and utilization of materials in relation to needs, abilities and interests of school-age children.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**LIS 80630 REFERENCE SOURCES AND SERVICES FOR YOUTH 3 Credit Hours**

(Slashed with LIS 60630) Organization and administration of information sources and information services for children and young adults (K-12). Evaluation, selection and utilization of print and electronic sources.

**Prerequisite:** Doctoral standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**LIS 80631 INTRODUCTION TO DIGITAL PRESERVATION 3 Credit Hours**

(Slashed with LIS 60631) Approaches and standards for preserving and maintaining access to digitized and born-digital text, images, data, audiovisual information, and web resources. Topics include longevity of digital media, selection for preservation; formats and strategies for preservation; preservation metadata; integrity and authenticity of digital materials; establishment and certification of trustworthy digital repositories; risk management; and policy development.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**LIS 80633 DIGITAL CURATION 3 Credit Hours**

(Slashed with LIS 60633) Management and preservation of digital objects and records throughout their lifecycle. Essential technologies and standards for building and maintaining robust, trusted digital repositories. Emphasizes the use and reuse of scholarly data, business and government records, cultural heritage materials, and other digital objects to create resources supporting communities of practice in their work.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**LIS 80635 CULTURAL HERITAGE INFOMATICS 3 Credit Hours**

(Slashed with LIS 60635) Cultural heritage informatics brings a comprehensive, cross-disciplinary approach to supporting the entire lifecycle of cultural heritage information and documentation procedures for the benefit of the preservation, study, and promotion of cultural heritage. The course covers methods of creating descriptions for cultural objects, as well as organizing, delivering, and presenting the cultural heritage (tangible, intangible, and digital) resources in the digital age. The course aims to prepare students for careers focusing on or transcending libraries, archives, museums (LAMs), historical societies, and other cultural institutions by introducing them to the methodologies and technologies commonly used in cultural heritage informatics and can be broadly implemented in LAMs.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**LIS 80636 KNOWLEDGE ORGANIZATION STRUCTURES, SYSTEMS AND SERVICES 3 Credit Hours**

(Slashed with LIS 60636) Introduction to various types of knowledge organization systems, services, and structures (KOS) used in the networked environment. Understanding of the functional philosophical, logical, and linguistic fundamentals of KOS. Explanation of design options, features of KOS, and procedures to be used in the thesaurus, taxonomy and ontology construction.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**LIS 80637 METADATA ARCHITECTURE AND IMPLEMENTATION 3 Credit Hours**

(Slashed with LIS 60637) Principles and theories of metadata development in the digital environment. Main focus is given to the design and applications of metadata schemas for distinct domains and information communities, issues in metadata interoperability, vocabulary control, quality control and evaluation. Examination of international standards, activities and projects with the use of case study approach.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**LIS 80638 DIGITAL LIBRARIES 3 Credit Hours**

(Slashed with LIS 60638) This course introduces a broad set of issues involved in the development and maintenance of digital libraries, including policy development, technology, collection development, project management, user-centered design, digitization, metadata, and interoperability.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**LIS 80639 IMPLEMENTATION OF DIGITAL LIBRARIES 3 Credit Hours**

(Slashed with LIS 60639) Explores issues related to implementation of digital libraries and provides hands-on experience for students to build digital library prototypes (small-scale) with open source software. The major emphasis is on design and implementation of key digital library functions, including building digital collections, defining and creating metadata, indexing, browsing and retrieval, customizing interface, implementing services, encoding and transforming for data exchange, and testing the usability and effectiveness.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**LIS 80640 LIBRARY AUTOMATION 3 Credit Hours**

(Slashed with LIS 60640) Analysis, design and selection of automated library systems. Considers system analysis and requirements, networking technologies, database management systems, multimedia and hypermedia, and client-serving computing. Also, proposals to vendors, contract negotiation, implementation, staffing, training, system maintenance and evaluation.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**LIS 80641 INFORMATION STORAGE AND RETRIEVAL SYSTEMS 3 Credit Hours**

(Slashed with LIS 60641) Fundamentals of information retrieval models and methods, including information storage structures, full-text indexing, structured indexes, search engines and web retrieval, human-computer interaction, and the user's experience, system performance and evaluation.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter



**LIS 80643 ONLINE REFERENCE SYSTEMS 3 Credit Hours**

(Slashed with LIS 60643) Use of information technologies to search for and retrieve electronic information, primarily through the Internet. Analysis of database structures and electronic records; search principles and heuristics; database system producers; system interfaces; and evaluation of results.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**LIS 80644 INFORMATION SCIENCE 3 Credit Hours**

(Slashed with LIS 60644) Focal areas of information science: information retrieval systems, bibliometrics, citation analysis, systems analysis and evaluation, information technologies, information theory, information architecture, knowledge management and user experience.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**LIS 80645 DATABASE DESIGN AND APPLICATIONS 3 Credit Hours**

(Slashed with LIS 50645) Characteristics and concepts of database systems; different types of database models; conceptual database design and implementation; the relational database model and its application in practice: key issues, principles, and techniques; current database technologies.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**LIS 80649 INDEXING AND ABSTRACTING 3 Credit Hours**

(Slashed with LIS 60649) Principles and methods of manual and computerized indexing and abstracting applied to I&A databases, back-of-book indexes, Web site indexes and sitemaps. Techniques of constructing indexing languages using international standards. Theory and practice of index design for specific formats and subjects. Automation and I&A services in networked environments.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**LIS 80650 INFORMATION POLICY 3 Credit Hours**

(Slashed with LIS 60650) Political, economic, cultural and legal issues regarding the production, distribution, and use of information (print, electronic and Web). Policy-making process, standards and protocols, intellectual property, information economy, impact of computers on access and policy, privacy rights, transnational flow of information and the Internet and the World Wide Web.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**LIS 80651 DIGITAL IMAGE PROCESSING AND COLLECTION MANAGEMENT 3 Credit Hours**

(Slashed with LIS 60651) This course is designed to introduce students to the fundamental concepts, terminology, techniques and applications of digital imaging as they relate to the development of digital image collections depicting works found in museum collections, archives, and special collections in libraries. The students will acquire knowledge and skills necessary to design, create and manage digital images of text, graphics, slides, and reproductions of 3-D objects. They will also be introduced to the principles and issues that pertain to the creation and distribution of digital-image archives via image databases and the Web environment.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**LIS 80652 FOUNDATIONS OF RECORDKEEPING IN SOCIETY 3 Credit Hours**

(Slashed with LIS 60652) An introduction to the core principles and practices of recordkeeping and the multiple and complex roles records and archives play in identity, evidence, transparency, memory, accountability, equity, representation and trust in society. This course covers historical and contemporary recordkeeping contexts related to individuals, family, community, organization, corporate, academia and government, as well as traditional, nontextual and digital formats of records and archives.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**LIS 80654 PRESERVATION AND CONSERVATION OF HERITAGE MATERIALS 3 Credit Hours**

(Slashed with LIS 60654) Types and causes of deterioration of various kinds of library, archival, and museum collections; storage and preventive care, preservation through photographic reproduction and digital conversion, and conservation of rare materials.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**LIS 80655 COPYRIGHT: UNDERSTANDING USER RIGHTS AND RESPONSIBILITIES 3 Credit Hours**

(Slashed with LIS 60655) Exploration of advanced copyright topics such as mass digitization, creative arts and other issues in fair use, library, archive and educational uses including the TEACH Act, digital first sale rights, Digital Millennium Copyright Act, and an introduction to copyright reform.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**LIS 80656 LICENSING OF INFORMATION PRODUCTS AND SERVICES 3 Credit Hours**

(Slashed with LIS 60656) Topics related to licensing of information products and services including online contract formation, software licenses (End User License Agreements), database and website terms of service, detailed understanding of common terms and conditions in license agreements and an introduction to music licensing and Creative Commons licensing.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**LIS 80657 THEORY AND METHODS OF ARCHIVAL ACQUISITION, SELECTION AND APPRAISAL 3 Credit Hours**

(Slashed with LIS 60657) This course provides a comprehensive introduction to the theory, methods and traditions employed by records professionals to form and shape archives as societal memory. This course focuses primarily on acquisition, selection, documentation and appraisal theory and methods. Students will also examine contemporary records frameworks and approaches and issues faced by archivists, special collections librarians and manuscript curators employed to identify, evaluate, acquire and dispose of records.

**Prerequisite:** LIS 80652; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**LIS 80661 TECHNICAL SERVICES 3 Credit Hours**

(Slashed with LIS 60661) Principles, problems and current issues of acquiring, processing and preserving conserving materials in libraries and information centers.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**LIS 80665 RARE BOOKS AND SPECIAL COLLECTIONS 3 Credit Hours**

(Slashed with LIS 60665) Study of the theory and practice of rare books and special collections librarianship. Topics to be addressed include identification and description of collections, history of the book, valuation, collection development, preservation, security, access and discovery, promotion and outreach, and administration of collections and resources.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**LIS 80666 ETHICAL CONCERNS OF LIBRARY AND INFORMATION PROFESSIONALS 3 Credit Hours**

(Slashed with LIS 60666) Analysis of ethical concerns of information professionals: codes of ethics, intellectual freedom, free access, privacy, confidentiality, computer issues and relations with management, clients and colleagues.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**LIS 80668 INTERNATIONAL LIBRARIANSHIP AND INFORMATION SERVICES 3 Credit Hours**

(Slashed with LIS 60668) Main theoretical traditions, concepts, and in-depth understanding of international librarianship (library communication on international issues) and comparative librarianship (comparative study of information services in specific contexts) through the study of international cooperation, influences, development aid, international organizations and associations, differences, major issues facing library and information services within their socio-economic, political, and cultural contexts, and innovations to solve these issues across the world.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**LIS 80691 SEMINAR IN LIBRARY SCIENCE 1-3 Credit Hours**

(Slashed with LIS 60691) Advanced research by small groups of students who are qualified to examine problems of certain special areas.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Seminar

**Contact Hours:** 1-3 lecture

**Grade Mode:** Standard Letter

**LIS 80694 COLLEGE TEACHING OF LIBRARY SCIENCE 2,3 Credit Hours**

(Repeatable for credit) Staff training and experience in college teaching.

**Prerequisite:** Doctoral standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 2-3 lecture

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**LIS 80695 SPECIAL PROBLEMS IN LIBRARY SCIENCE 1-10 Credit Hours**

(Repeatable for credit) (Slashed with LIS 60695) Individual research at high levels of specialization.

**Prerequisite:** Doctoral standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 1-10 lecture

**Grade Mode:** Standard Letter-IP

**LIS 80700 FOUNDATIONS OF MUSEUM STUDIES 3 Credit Hours**

(Slashed with LIS 60700) Intended for those interested in learning more about museums or specializing in museum studies. The goal is to introduce students to various aspects of all types of museums as dynamic networked systems positioned around objects, people and ideas. Covers history and types of museums, the roles of objects and ideas, structure, function, museum workers and users, and the purpose and future of museums.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**LIS 80701 MUSEUM COLLECTIONS 3 Credit Hours**

(Slashed with LIS 60701) Introduction to the organization, care and meaning of objects held in museum collections. Through both theoretical and practical concepts, basic collection management and registration skills are introduced. In conjunction, students explore the meanings made of museum objects.

**Prerequisite:** LIS 60700 or LIS 80700; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**LIS 80702 MUSEUM COMMUNICATION 3 Credit Hours**

(Slashed with LIS 60702) Museums communicate to the public in a multitude of ways: interpretation, exhibition, publication, educational programming and using a web presence. Introduces important concepts, theories, applications, processes and technology used in museum interpretation and communication. Students are provided with a balance of practical techniques with thoughtful conceptual exploration.

**Prerequisite:** LIS 60700 or LIS 80700; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**LIS 80703 MUSEUM USERS 3 Credit Hours**

(Slashed with LIS 60703) Families, individuals, and students visit museums and community institutions for a variety of purposes including leisure, education, and curiosity. Introduction to the research and theory on museum user experience. Inquiry involves examining notions of learning, engagement, and transformative experiences of users, characteristics of users, and the social dynamics of the museum experience. In addition, reviews several programmatic techniques and methods used in museums to increase engagement and learning for patrons.

**Prerequisite:** LIS 60700 or LIS 80700; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**LIS 80704 THE MUSEUM SYSTEM 3 Credit Hours**

(Slashed with LIS 60704) Museums are by their very nature complex and dynamic systems composed of people, objects and activities. Comprised of an "outer" subsystem and an "inner" subsystem, museum as a whole functions as an organic body, with all of its parts working together to function successfully. This system exists within a larger landscape, one filled increasingly with new types of interactions, unlimited access, and constant feedback. This course explores this holistic system from both practical and conceptual viewpoints, examining the role of administration throughout the system as well as considering current issues such as sustainability, advocacy and relationships with community and users add to an overall understanding of the museum system.

**Prerequisite:** LIS 60700 or LIS 80700; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**LIS 80705 MUSEUM ORIGINS 3 Credit Hours**

(Slashed with LIS 60705) While the collecting of objects can be found as far back as ancient times in various parts of the world, the birth of the modern museum finds its roots in Europe. In the context of today's world, students will "go back in time" to understand the origins of western museums and the creation, use, and meaning of publicly shared collections over time. Students will explore the history of the modern museum and spend time visiting actual sites and collections that played a role in this history. Exploring the past in this way is geared specifically to help today's museum workers gain a better understanding of their own role and purpose in their community, society and nation.

**Prerequisite:** Doctoral standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**LIS 81095 SELECTED TOPICS IN LIBRARY SCIENCE 1-3 Credit Hours**

(Repeatable for credit) (Slashed with LIS 61095) Offered irregularly as resources and or opportunities permit. Topics will be announced in the Schedule of Classes.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 1-3 lecture

**Grade Mode:** Standard Letter

**LIS 81096 INDIVIDUAL INVESTIGATION 1-3 Credit Hours**

(Repeatable for credit) Individual investigation for doctoral level students.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Individual Investigation

**Contact Hours:** 1-3 other

**Grade Mode:** Standard Letter-IP

## Long-Term Care Administration (LTCA)

**LTCA 43092 INTERNSHIP IN NURSING HOME ADMINISTRATION/ HEALTH SERVICES EXECUTIVE (ELR) 9 Credit Hours**

Internship in skilled nursing facility. One, 3 hour, on-campus seminar every three weeks (meets four times). Approximately 35-40 clock hours per week at internship site is required. Students participate in weekly online course discussions and have an on-site visit to their internship site during the semester.

**Prerequisite:** Minimum B grade in LTCA 44032; and human development and family studies majors or long-term care administration majors; and senior standing; and special approval.

**Schedule Type:** Lecture, Practical Experience

**Contact Hours:** 2 lecture, 33.33 other

**Grade Mode:** Standard Letter-IP

**Attributes:** Experiential Learning Requirement

**LTCA 43192 INTERNSHIP IN NURSING HOME ADMINISTRATION/ HEALTH SERVICES EXECUTIVE (ELR) 9 Credit Hours**

Internship in skilled nursing facility. One 3-hour, on-campus seminar every three weeks (meets four times). Approximately 35 clock hours per week at internship site is required. Students participate in weekly online course discussions and have an on-site visit to their internship site during the semester.

**Prerequisite:** Minimum B grade in LTCA 43092; and human development and family studies major or long-term care administration; and senior standing; and special approval.

**Schedule Type:** Lecture, Practical Experience

**Contact Hours:** 2 lecture, 33.33 other

**Grade Mode:** Standard Letter-IP

**Attributes:** Experiential Learning Requirement

**LTCA 44032 LONG-TERM CARE ADMINISTRATION I 3 Credit Hours**

(Slashed with LTCA 54032) Presents an overview and introduction to the principles of long-term care administration and other administration options.

**Prerequisite:** Junior or senior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**LTCA 44033 LONG-TERM CARE ADMINISTRATION II 3 Credit Hours**

(Slashed with LTCA 54033) Presents a focus on Assisted Living (AL) and Home and Community Based Services (HCBS) and Supports in long term care to align with accreditation standards for Nursing Home Administration-Health Services Executive (NHA-HSE).

**Prerequisite:** Minimum C+ in LTCA 44032; and senior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**LTCA 54032 LONG-TERM CARE ADMINISTRATION I 3 Credit Hours**

(Slashed with LTCA 44032) Presents an overview and introduction to the principles of long-term care (LTC) administration and other administration options.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**LTCA 54033 LONG-TERM CARE ADMINISTRATION II 3 Credit Hours**

(Slashed with LTCA 44033) Presents a focus on Assisted Living (AL) and Home and Community Based Services (HCBS) and Supports in long term care to align with accreditation standards for Nursing Home Administration-Health Services Executive (NHA-HSE).

**Prerequisite:** Minimum B grade in LTCA 54032; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**LTCA 63092 PRACTICUM IN NURSING HOME ADMINISTRATION I 6 Credit Hours**

Internship in skilled nursing facility. One, 3 hour, on-campus seminar every three weeks (meets five times). Weekly one hour online lectures and discussions also take place. Approximately 35 clock hours per week at internship site is required.

**Prerequisite:** Minimum B grade in LTCA 54032; and graduate standing; and special approval.

**Schedule Type:** Lecture, Practical Experience

**Contact Hours:** 2 lecture, 33.33 other

**Grade Mode:** Standard Letter

**LTCA 63192 PRACTICUM IN NURSING HOME ADMINISTRATION II 6 Credit Hours**

Internship in skilled nursing facility. One 3-hour, on-campus seminar every three weeks (meets five times). One hour online lectures and discussions are held each week. Approximately 35 clock hours per week at internship is required.

**Prerequisite:** A minimum B grade in both LTCA 54032 and LTCA 63092; and graduate standing; and special approval.

**Schedule Type:** Lecture, Practical Experience

**Contact Hours:** 2 lecture, 33.33 other

**Grade Mode:** Standard Letter

## Management (MGMT)

**MGMT 24056 BUSINESS ANALYTICS I 3 Credit Hours**

(Equivalent to BMRT 21004) Introduction to concepts in statistical methods and their applications to real world problems. Examines both the theoretical and practical side of the different methods.

**Prerequisite:** MATH 11010 or MATH 11012 or MATH 12002.

**Schedule Type:** Laboratory, Lecture, Combined Lecture and Lab

**Contact Hours:** 2 lecture, 2 lab

**Grade Mode:** Standard Letter

**MGMT 24163 PRINCIPLES OF MANAGEMENT 3 Credit Hours**

(Equivalent to BMRT 11009) Introductory course in management and organizational design. The leading contributions in the area are reviewed and practical implications are developed. The course covers the principles that most management professors have come to expect in an introductory course: planning, organizing, leading, and controlling. In addition, the students need to be aware of critical issues managers must be aware of to succeed: diversity, globalization, ethics, technology, sustainability among them. The course serves as an introduction to many upper level business courses.

**Prerequisite:** Sophomore standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MGMT 34054 USING INFORMATION SYSTEMS FOR SOLVING BUSINESS PROBLEMS 3 Credit Hours**

Course examines key concepts about information systems that are relevant for business managers. Students will complete hands-on assignments. Course is not open to students in the Computer Information Systems major.

**Prerequisite:** CIS 24053 or IT 11000; and minimum 2.000 overall GPA.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MGMT 34055 COMPUTER DECISION MODELING 3 Credit Hours**

Introduces students to the scientific decision-making tools of operations research and management science, and also to the use of spreadsheet modeling for problem formulation and solution without the need for mathematics. The concepts of modeling and better decision making are stressed along with illustrations from the various functional areas of business. Course not open to computer information systems majors.

**Prerequisite:** CIS 24053 or IT 11000; and MGMT 24056 or MATH 10041 or BMRT 21004; and minimum 2.500 overall GPA.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MGMT 34059 SERVICE OPERATIONS MANAGEMENT 3 Credit Hours**

Provide students with the concepts and tools necessary to effectively manage service operations and to prepare students for management opportunities in service firms that represent the fastest-growing sector of the economy. The service management will be presented from an integrated viewpoint with a focus on customer satisfaction. The course materials are organized around four modules (1) understanding services (2) designing the service enterprise, (3) managing service operations and (4) toward world class-service.

**Prerequisite:** MGMT 34060; and minimum 2.500 overall GPA.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MGMT 34060 OPERATIONS MANAGEMENT 3 Credit Hours**

A survey course in operations management that covers the managerial concepts and the quantitative tools used in the design, planning operation and control of operations systems.

**Prerequisite:** CIS 24053 or IT 11000; and MGMT 24056 or MATH 10041 or BMRT 21004.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter



**MGMT 34064 MANUFACTURING RESOURCE PLANNING 3 Credit Hours**

Introduce students to the basic tools operations managers use to inform their decisions on a daily basis. The course involves hands-on coverage of manufacturing resource planning tools, including forecasting and master production schedules, bill of materials structuring, order entry and purchasing, capacity requirements planning, routing, costing, customer service, shipping, invoicing and using an enterprise resource planning (ERP) software.

**Prerequisite:** MGMT 34060; and minimum 2.500 overall GPA.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MGMT 34065 QUALITY ASSURANCE 3 Credit Hours**

Introduction to importance of quality assurance and tools used to accomplish better quality in goods and services. Topics TQM, Six Sigma, quality philosophies, sampling plans and statistical process control, ISO, quality competition and awards.

**Prerequisite:** MGMT 34060; and minimum 2.500 overall GPA.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MGMT 34156 BUSINESS ANALYTICS II 3 Credit Hours**

This course provides an introduction and application of business analytics to real-world problems. Specifically, students are exposed to methods and models that allows business users to make better decisions based on data. We discuss methods for collecting, cleaning, and visualizing data, linear, non-linear, and optimization models to help decision makers choose the best decision, and some advanced forms of modeling. The goal of this course is for students to be exposed to essential topics in business analytics, and to apply these techniques to real-world problems.

**Prerequisite:** BMRT 21004 or MATH 10041 or MGMT 24056.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MGMT 34157 INTRODUCTION TO HEALTHCARE SYSTEMS MANAGEMENT 3 Credit Hours**

Provides an overview of the management, economic and policy issues facing the healthcare, pharmaceutical, biotechnology and medical device industries. The course perspective is global, with emphasis on the U.S. as the largest and most profitable market.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MGMT 34158 MANAGERIAL AND TECHNOLOGICAL ASPECTS OF HEALTHCARE SYSTEMS MANAGEMENT 3 Credit Hours**

Introduce the main components of health care information technology, with emphasis on the components that distinguish the health care delivery system from other business enterprises. Prepares students as clinical managers and consultants who must rely upon or manage information technology to accomplish their objectives.

**Prerequisite:** MGMT 34157.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MGMT 34159 MANAGING HEALTHCARE SYSTEMS OPERATIONS 3 Credit Hours**

Operational process management, cost-control and productivity is critical to cost-effective healthcare. Covers topics in improving operations such as patient flow, quality (concepts and mechanics) and process improvement. Students become familiar with methods and resources for implementing change in a health care setting, such as a hospital or outpatient clinic. Provides skills to assess current hospital operations and to identify the appropriate tools to address various functional areas, useful for managers, consultants, clinical providers and others. Process improvement methods such as lean thinking, six sigma, statistical tools, flowcharting, queuing models and other tools are covered. Health care settings beyond the hospital, such as outpatient clinics, are included.

**Prerequisite:** MGMT 34157.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MGMT 34164 ORGANIZATIONAL MENTORING 3 Credit Hours**

Course promotes leadership development through the study of leadership principles, styles, and role models. Students will learn through class lecture and discussion as well as hand-on leadership experience in Exploring Business Interactive Business Seminars (i.e., business labs). Students will work with course instructor to develop a personal leadership plan.

**Prerequisite:** BUS 10123; and minimum 2.500 overall GPA; and special approval.

**Schedule Type:** Laboratory, Lecture, Combined Lecture and Lab

**Contact Hours:** 2 lecture, 2 lab

**Grade Mode:** Standard Letter

**MGMT 34165 DYNAMICS OF LEADERSHIP 3 Credit Hours**

This course discusses management and leadership concepts and does so by blending theory and practice. The courses uses case studies, practical application approaches, personal assessment and provides opportunities for students to develop individual and group leadership skills. In addition, many organizational behavior concepts are blended throughout the course.

**Prerequisite:** MGMT 24163 or BMRT 11009.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MGMT 34175 LEARNING TO LEAD 3 Credit Hours**

This is a hands-on learning and leadership course. Classroom time occurs over 4 days at a residential camp before the semester begins. Students learn about leadership from professors, experts in the field, and each other through interactive discussions and activities. During the semester students continue their leadership development working with a personal mentor, and practice their skills through community service projects.

**Prerequisite:** Special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter



**MGMT 34185 INDIVIDUAL AND GROUP BEHAVIOR IN ORGANIZATIONS**  
**3 Credit Hours**

Determinants of individual and group behavior within work organizations. Topics covered include, motivation, job design, learning, decision making, leadership and group behavior as they relate to performance and other outcomes in work organizations.

**Prerequisite:** MGMT 24163 or BMRT 11009.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MGMT 34280 ORGANIZATIONAL CHANGE MANAGEMENT** **3 Credit Hours**

This course focuses on understanding the processes and challenges involved in responsible organizational change management. The course will provide students a blend of both research and best practice professional applications.

**Prerequisite:** MGMT 24163 or BMRT 11009; and MGMT 34165; and minimum 2.500 overall GPA.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MGMT 44009 THE BUSINESS CASE FOR SUSTAINABILITY** **3 Credit Hours**

The course lays the foundation for sustainable development and the balance issues between economic, social and environmental interests. It frames the business enterprise within the natural and social environments, and surveys a variety of intersection points and the challenges they pose. Systems thinking and long term perspective are used to understand the potential consequences of organizational choices regarding goals and strategies, given consideration of how the natural environment increasingly drives the business environment.

**Prerequisite:** Minimum 2.500 overall GPA; and junior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MGMT 44061 OPERATIONS MANAGEMENT AND CONTROL** **3 Credit Hours**

Introduces the student to the key functions of an operations planning and control system. Operations planning and control systems provide information for the efficient flow of materials, the effective utilization of people and equipment and the proper coordination of internal activities with suppliers and customers.

**Prerequisite:** Minimum 2.500 overall GPA.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MGMT 44062 SUPPLY CHAIN MANAGEMENT** **3 Credit Hours**

Students learn the basic analytical tools needed to coordinate business operations across the value chain. Course involves hands-on coverage of supply chain management with emphasis on supplier partnering and development, customer relations management, strategic sourcing and pricing, e-business, measuring supply chain performance, mass customization, planning supply and demand coordination in the supply chain.

**Prerequisite:** Minimum 2.500 overall GPA; and junior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MGMT 44065 STRATEGIES IN PRODUCTION AND OPERATIONS MANAGEMENT (WIC)** **3 Credit Hours**

Senior project in industrial management. Applies concepts from all prior coursework to the solution of real and simulated operating problems.

**Prerequisite:** Minimum 2.500 overall GPA.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Writing Intensive Course

**MGMT 44096 INDIVIDUAL INVESTIGATION IN MANAGEMENT** **3 Credit Hours**

(Repeatable for credit) Presents opportunity to undertake research. Approval of topic and agreement to work with student must be secured from faculty member and the chairperson of the department prior to registration.

**Prerequisite:** Special approval.

**Schedule Type:** Individual Investigation

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**MGMT 44152 PROJECT MANAGEMENT** **3 Credit Hours**

This course covers the fundamental concepts, procedures and processes related to managing projects from initiation through planning, execution and closing. It also introduces the principles, tools and methods used in project management, and the use of project management software (ProjectLibre) in managing projects. The topics covered in the course can be helpful in preparing for Project Management Professional (PMP) certification.

**Prerequisite:** Minimum 2.500 overall GPA; and junior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MGMT 44163 GLOBAL BUSINESS MANAGEMENT (WIC)** **3 Credit Hours**

Provides an overview of contemporary issues and theoretical frameworks in the field of international strategic management using traditional lecture and practical application cases.

**Prerequisite:** Minimum C grade in ENG 21011, COMM 15000 and MATH 11010; minimum 2.50 overall GPA; and senior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Writing Intensive Course

**MGMT 44187 INTERNATIONAL MANAGEMENT EXPERIENCE** **3 Credit Hours**

This course focuses on strategy and policy development and execution for gaining and sustaining global competitive advantage. Strategic management of entrepreneurial and well-established firms, and operational and financial structures of international firms and markets are discussed.

**Prerequisite:** MGMT 24163 with a minimum C grade; and minimum 2.500 overall GPA; and sophomore standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 9 other

**Grade Mode:** Standard Letter

**MGMT 44191 SENIOR RESEARCH SEMINAR IN MANAGEMENT 3 Credit Hours**

(Repeatable for credit) Combination of individual or group research and class discussion for superior students. Investigations in administration and organization conducted in accordance with scholarly interests of participants.

**Prerequisite:** Special approval.

**Schedule Type:** Seminar

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**MGMT 44192 INTERNSHIP IN MANAGEMENT (ELR) 3 Credit Hours**

(Repeatable for credit) A supervised field experience requiring a minimum of 145 hours of work at a cooperating organization. Requires regular contact with instructor and preparation of an internship report connecting academic coursework to on the job experiences.

**Prerequisite:** MGMT 24163 with minimum C grade; and minimum 2.500 overall GPA; and special approval.

**Schedule Type:** Practical Experience

**Contact Hours:** 15 other

**Grade Mode:** Standard Letter

**Attributes:** Experiential Learning Requirement

**MGMT 44285 INTEGRATED BUSINESS POLICY AND STRATEGY 3 Credit Hours**

Integration of the functional areas of business in the formulation and implementation of policy. Projects and case analyses of business situations provide students with the opportunity to apply analytical and creative problem solving skills.

**Prerequisite:** ACCT 23020 and ACCT 23021 and ECON 22060 and ECON 22061 and MKTG 25010 and CIS 24053 and MGMT 24056 and MGMT 24163 and MGMT 34060 and FIN 26074 and FIN 36053; and minimum 2.500 overall GPA; and major within the college of business administration; and senior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MGMT 44299 MANAGEMENT CAPSTONE (ELR) (WIC) 3 Credit Hours**

Course integrates various management concepts in informing a manager's strategic decision making process. Students use case analyses and class lectures to demonstrate their leadership abilities in different business scenarios.

**Prerequisite:** ACCT 23020 and ACCT 23021 and CIS 24053 and ECON 22060 and ECON 22061 and FIN 26074 and FIN 36053 and MGMT 24056 and MGMT 24163 and MGMT 34060 and MKTG 25010; and minimum 2.500 overall GPA; and declared in General Business major; and senior standing.

**Schedule Type:** Project or Capstone

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**Attributes:** Experiential Learning Requirement, Writing Intensive Course

**MGMT 44392 BUSINESS CONSULTING AND PRACTICUM (ELR) 3 Credit Hours**

Provides decision-making tools for solving real-world problems by building synergies in prior knowledge to create a synthesis of real life solutions delivery mechanisms underpinning them to pressing problems of the local and international community. The practicum component includes consulting experience with both for profit and not-for-profit business clients.

**Prerequisite:** MGMT 24163; and minimum 2.500 overall GPA; and senior standing.

**Schedule Type:** Practical Experience

**Contact Hours:** 15 other

**Grade Mode:** Standard Letter

**Attributes:** Experiential Learning Requirement

**MGMT 44395 SPECIAL TOPICS IN MANAGEMENT 3 Credit Hours**

(Repeatable for credit) Offered on a semester basis with different management topics and different faculty involved each time the course is offered.

**Prerequisite:** Minimum 2.500 overall GPA; and junior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

## Management and Information Systems (MIS)

**MIS 54091 SEMINAR IN HUMAN RESOURCE MANAGEMENT 3 Credit Hours**

(Cross-listed with HRM 44091) In-depth readings, discussion projects and presentations in a specialized area of human resource management.

**Prerequisite:** Business administration major; and graduate standing.

**Schedule Type:** Seminar

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MIS 54183 DEVELOPMENT AND TRAINING HUMAN RESOURCES IN ORGANIZATIONS 3 Credit Hours**

(Cross-listed with HRM 44183) Course focus is quality training design, based upon theory and empirical research. Implications for practice and current challenges in employee training and development are also highlighted.

**Prerequisite:** Business administration major within the master of business administration degree; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MIS 54185 STAFFING HUMAN RESOURCES 3 Credit Hours**

(Cross-listed with HRM 44185) Staffing, development of systems to select, place, promote, and retain employees to enhance organizational effectiveness and maintain legal compliance are core HRM activities in organizations. This course will provide students with an understanding of the technical components of selection, including how to determine which applicant characteristics should be examined, what procedures should be used to gather information, and how that information should be combined to identify qualified job applicants. In addition, this course focuses on promotion and retention of employees.

**Prerequisite:** Business administration major within the master of business administration degree.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MIS 54445 GLOBAL HUMAN RESOURCE MANAGEMENT 3 Credit Hours**

(Cross-listed with HRM 44445) The course examines the impact of internationalization and cross-cultural challenges on organizations, the factors involved in selecting and managing an international workforce, the evaluation of employee relations and employment law, and address issues such as employee training and development, expatriation repatriation, performance management, and compensation issues, all from the perspective of managing an international organization.

**Prerequisite:** Business administration major within the master of business administration degree; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MIS 64005 ANALYTICS FOR DECISION MAKING 2 Credit Hours**

This course uses computer capabilities to analyze and understand a variety of statistical and business analytics techniques and how to apply these techniques to solving business problems.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**MIS 64011 SYSTEMS SIMULATION 3 Credit Hours**

Techniques and applications of computer simulation of existing or proposed real-world systems. Use of simulation language, simulations studies, analysis and interpretation of results.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MIS 64013 NONPARAMETRIC AND ROBUST STATISTICS 3 Credit Hours**

(Slashed with MIS 74013) A presentation of statistically sound techniques for those who need to be able to use nonparametric or robust methods to deal with non-normal distributions or outliers (common problems) in their data.

**Prerequisite:** MIS 64005 or 74005; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MIS 64017 MULTIVARIATE STATISTICS 3 Credit Hours**

This course is devoted to a study of multivariate statistical methods. Topics include multivariate analysis of variance, canonical correlation, principal component analysis, discriminant analysis cluster analysis and factor analysis.

**Prerequisite:** MIS 64023 or 74023; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MIS 64018 QUANTITATIVE MANAGEMENT MODELING 3 Credit Hours**

A variety of optimization and heuristic modeling techniques are explored. Decision-making environments, model selection, and interpretation are emphasized. Various linear and nonlinear mathematical programming techniques are the primary topic but are supplemented with other optimization and heuristic techniques.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MIS 64019 RESEARCH SEMINAR IN SUPPLY CHAIN MANAGEMENT 3 Credit Hours**

Research seminar designed primarily for students who seek an in-depth understanding of the current research literature in supply chain management and who are interested in doing research in supply chain management. Students study the academic literature with emphasis on the development and use of analytical tools and models to solve supply chain management problems. Specifically, the course will address quantitative modeling to support operational, tactical and strategic decision-making in supply chain management.

**Prerequisite:** Graduate standing.

**Schedule Type:** Seminar

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MIS 64020 ADVANCED STATISTICAL MODELS 3 Credit Hours**

This is a special focus course for which the topics will vary. It will generally include sampling techniques, experimental designs, similar statistical methods, internal and external validity and reliability issues.

**Prerequisite:** MIS 64023 or 74023; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MIS 64023 LINEAR STATISTICAL MODELS AND APPLICATIONS 3 Credit Hours**

Models and applications of simple and multiple regression, correlation and analysis of variance.

**Prerequisite:** MIS 64005 or 74005; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MIS 64026 GLOBAL SUPPLY CHAIN MANAGEMENT AND SUSTAINABLE STRATEGIES 3 Credit Hours**

Introduces the knowledge base needed to coordinate business operations across global supply chains. Addresses how to integrate traditional business operations so as to align them in support of inter-firm collaboration required to compete globally. Investigates specific topics relevant to supply chain management and offers a managerial orientation towards supporting global supply chain operations. Immerses students into responsible supply chain practices around the globe with strong emphasis and orientation towards sustainable (green) supply chains.

**Prerequisite:** MIS 64041; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MIS 64028 GLOBAL SUPPLY CHAIN BUSINESS MODELS 3 Credit Hours**

Focus on modeling techniques for supporting decision making in supply chain management. Introduces students to the problems facing a global supply chain manager and the implementation of spreadsheet-based models for solving problems that arise in the operation of a supply chain. Emphasis is placed on model formulation and interpretation in support of decisions to coordinate and improve supply chain operations.

**Prerequisite:** MIS 64026 or 64036; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MIS 64029 SUPPLY CHAIN AND VENDOR MANAGEMENT STRATEGIES 3 Credit Hours**

Building global 'relationships' are central pillars to effective supply chain management. There are strategic relationships, tactical relationships, transactional relationships, internal relationships, and of course, relationships with the government. As supply chains become global, managers have to consider cultural, regulatory, and communication differences to create and operate within the global village. Students learn how to deal with a rapidly changing landscape and understand how to deal with distributed resources, vendors, and people across cultures and convictions.

**Prerequisite:** MIS 64026; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MIS 64036 BUSINESS ANALYTICS 3 Credit Hours**

Overview of business analytics and its appropriate applications in various industries and functional areas. Critical thinking, problem definition, problem solving, effective communication, and leadership are emphasized. Methods such as data visualization and descriptive, predictive, and prescriptive analytics are covered from a broad perspective. This course is applied, hands-on, and case-based. Cases emphasize the communication of quantitative solutions to laypeople and required leadership during decision-making and implementation stages.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MIS 64037 ADVANCED DATA MINING AND PREDICTIVE ANALYTICS 3 Credit Hours**

Course extends the coverage of data mining and predictive analytics. Topics focus on the applied use of these techniques in realistic settings. Covers statistical and machine learning techniques.

**Prerequisite:** MIS 64036 or MIS 64060; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MIS 64038 ANALYTICS IN PRACTICE 3 Credit Hours**

Course focuses on supporting techniques and managerial and professional skills necessary to being an effective business analyst. Other topics include project management, requirements analysis, change management, team dynamics, leadership, ethics and effective communication between all stakeholders.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MIS 64041 OPERATIONS, SERVICE AND SUPPLY CHAIN MANAGEMENT 2 Credit Hours**

Develops a framework for analysis of operating problems. Uses computer, quantitative and behavioral models to develop operating plans consistent with organizations' competitive (or service) strategy.

**Prerequisite:** MIS 64005; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**MIS 64042 GLOBALIZATION AND TECHNOLOGY STRATEGY 2 Credit Hours**

This course is designed to provide both, general managers and Information Technology (IT) managers, an overview of the issues that are related to the management of an organization's IT assets. For general managers, the course offers frameworks for evaluating and guiding IT activities in their organizations. For the IT managers, the course offers frameworks for organizing and understanding the management challenges related to deployment of IT in their organizations. The focus is on decisions made by organizations as they attempt to deal with the challenges posed by IT in various functional areas of an organization.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**MIS 64047 MANUFACTURING TECHNOLOGY AND STRATEGY 3 Credit Hours**

This course provides the student with an introduction to modern techniques in manufacturing and the necessary strategic concepts to implement them. A similar discussion of service industries is also included.

**Prerequisite:** Graduate standing; and special approval of instructor.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MIS 64050 ESSENTIALS OF BUSINESS MGMT 3 Credit Hours**

This is an introductory management course that discusses functional areas of business and their strategic positioning in delivering business solutions.

**Prerequisite:** Non-college of business administration majors; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MIS 64060 FUNDAMENTALS OF MACHINE LEARNING 3 Credit Hours**

In this course, you learn some fundamentals of machine learning. Specifically, we concentrate on classification modelling, segmentation and clustering and recommendation systems.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MIS 64061 ADVANCED MACHINE LEARNING 3 Credit Hours**

Introduction to deep learning and time series data analysis. Students consider applications of deep learning to computer vision, text analysis and sequences, and time series data.

**Prerequisite:** MIS 64060; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MIS 64080 EMERGING HARDWARE AND SOFTWARE TECHNOLOGIES 3 Credit Hours**

Investigation of selected emerging hardware and software technologies such as parallel processing systems, computer languages and operation systems, artificial intelligence, neural networks and chaos theory.

**Prerequisite:** Graduate standing; and special approval of instructor.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MIS 64081 DATA COMMUNICATIONS AND NETWORKING IN BUSINESS**  
**3 Credit Hours**

An introduction to telecommunications and computer networks. Topics include telecommunications technologies and services communication standards and protocols local area networks and network management.

**Prerequisite:** Graduate standing; and special approval of instructor.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MIS 64082 DATABASE MANAGEMENT AND DATABASE ANALYTICS**  
**3 Credit Hours**

The design, implementation and management of database management systems within organizations are studied from an applied perspective.

Additional emphases include data warehousing, structured query language for analytics, and introductions to NoSQL databases and big data analytics.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MIS 64083 INFORMATION SECURITY: A MANAGERIAL PERSPECTIVE**  
**3 Credit Hours**

Introduction to the information security areas that managers must understand in order to deal with today's security threat-laden environment. The emphasis is on the important principals and concepts that managers utilize to develop effective security risk management programs.

**Prerequisite:** Admission to MBA program or admission to MS IAKM program; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MIS 64092 INTERNSHIP IN BUSINESS ANALYTICS** 3 Credit Hours

(Repeatable for credit) A supervised field experience at a cooperating organization. Requires regular contact with instructor and preparation of an internship report connecting academic coursework to on-the-job experiences.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture, Practical Experience

**Contact Hours:** 1 lecture, 17 other

**Grade Mode:** Standard Letter

**MIS 64099 CAPSTONE PROJECT IN BUSINESS ANALYTICS** 3 Credit Hours

(Repeatable for credit) In this culminating project, students draw on the breadth and depth of the curriculum to address an industry supplied problem individually or in small teams. Projects will explore prescriptive analytics as is appropriate to their design project. In-progress (IP) mark permissible.

**Prerequisite:** MIS 64036 or MIS 64060; and graduate standing.

**Schedule Type:** Project or Capstone

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**MIS 64108 APPLIED TOPICS IN HUMAN RESOURCE MANAGEMENT**  
**3 Credit Hours**

Course provides students an opportunity to learn about human resource management through an application of the material to real-world problems. Topics covered may include but not be limited to job analysis, selection methods, employee training, and performance evaluation.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MIS 64158 LEADERSHIP AND MANAGERIAL ASSESSMENT** 2 Credit Hours

Students develop an understanding of the leadership process. Through critical thinking, class discussions and class activities, they build skills in leading others, leading themselves, and teamwork.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**MIS 64160 LEADERSHIP AND ORGANIZATIONAL CHANGE** 3 Credit Hours

Course provides students in-depth knowledge of leading organization change. Covers analysis of existing conditions, drivers of change and readiness for change along with methods of change and change implementation.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MIS 64185 BUSINESS STRATEGY** 3 Credit Hours

Integrative approach to the study of policy formulation and implementation. Formalized planning systems reviewed; case analysis of actual business situations helps student further develop analytical and communication skills.

**Prerequisite:** Completion of 18 credit hours of college of business administration coursework; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MIS 64263 EMPLOYEE SELECTION AND APPRAISAL** 3 Credit Hours

This course will focus primarily on issues associated with the person/job matching process in modern organizations related to the selection and appraisal of employees.

**Prerequisite:** MIS 64271; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MIS 64270 ORGANIZATIONAL ANALYSIS AND DESIGN** 3 Credit Hours

Course provides students an in-depth examination of all of the factors influencing human behavior at work.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter



**MIS 64271 HUMAN RESOURCE MANAGEMENT 2 Credit Hours**

This course explores the management of a firm's human resources from practical and theoretical perspectives of managing people at work. How high performance work practices (HPWPs) help businesses to motivate their employees for strategic competitive advantage is emphasized.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**MIS 64275 STRATEGIC GLOBAL MANAGEMENT 3 Credit Hours**

Strategic global management explores micro-level concepts and strategic managerial alternatives within the context of current global business operations in the political, economic and cultural environment facing today's manager.

**Prerequisite:** Completion of 24 credit hours of graduate courses from the college of business administration; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MIS 68051 BUSINESS PROFESSIONAL DEVELOPMENT I 1 Credit Hour**

Development of professional business skills for the full-time MBA student to use in both the graduate program and career development.

**Prerequisite:** Admission to MBA program; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 1 lecture

**Grade Mode:** Satisfactory/Unsatisfactory

**MIS 68052 BUSINESS PROFESSIONAL DEVELOPMENT II 1 Credit Hour**

Continuation of development of professional business skills for the full-time MBA student primarily focused on building and strengthening the skills needed by a manager for the workplace.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 1 lecture

**Grade Mode:** Satisfactory/Unsatisfactory

**MIS 74005 STATISTICS FOR MANAGEMENT I 3 Credit Hours**

This course uses computer capabilities to use and understand a variety of statistical techniques and applies these techniques to business problems.

**Prerequisite:** Admission to MBA program; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MIS 74013 NONPARAMETRIC AND ROBUST STATISTICS 3 Credit Hours**

(Slashed with MIS 64013) A presentation of statistically sound techniques for those who need to be able to use nonparametric or robust methods to deal with non-normal distributions or outliers (common problems) in their data.

**Prerequisite:** MIS 64005 or 74005; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MIS 74017 MULTIVARIATE STATISTICS 3 Credit Hours**

This course is devoted to a study of multivariate statistical methods. Topics include multivariate analysis of variance, canonical correlation, principal component analysis, discriminant analysis, cluster analysis and factor analysis.

**Prerequisite:** MIS 64023 or 74023; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MIS 74018 QUANTITATIVE MANAGEMENT MODELING 3 Credit Hours**

A variety of optimization and heuristic modeling techniques are explored. Decision-making environments, model selection, and interpretation are emphasized. Various linear and nonlinear mathematical programming techniques are the primary topic but are supplemented with other optimization and heuristic techniques.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MIS 74019 RESEARCH SEMINAR IN SUPPLY CHAIN MANAGEMENT 3 Credit Hours**

Research seminar designed primarily for students who seek an in-depth understanding of the current research literature in supply chain management and who are interested in doing research in supply chain management. Students study the academic literature with emphasis on the development and use of analytical tools and models to solve supply chain management problems. Specifically, the course will address quantitative modeling to support operational, tactical and strategic decision-making in supply chain management.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Seminar

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MIS 74020 ADVANCED STATISTICAL MODELS 3 Credit Hours**

This is a special focus course for which the topics will vary. It will generally include sampling techniques, experimental designs, similar statistical methods, internal and external validity, and reliability issues.

**Prerequisite:** MIS 64023 or 74023; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MIS 74023 LINEAR STATISTICAL MODELS AND APPLICATIONS 3 Credit Hours**

Models and applications of simple and multiple regression, correlation and analysis of variance.

**Prerequisite:** MIS 64005 or 74005; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MIS 74041 OPERATIONS MANAGEMENT 3 Credit Hours**

Develops a framework for analysis of operating problems. Uses computer quantitative and behavioral models to develop operating plans consistent with organizations' competitive (or service) strategy.

**Prerequisite:** MIS 64005 or 74005; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MIS 74042 GLOBALIZATION AND TECHNOLOGY STRATEGY 3 Credit Hours**

Focus is on the strategic issues around how a firm should manage its technology in a global market. Strategic issues include understanding the technological and competitive landscape, innovations, competitive advantages in the high-tech marketplace, outsourcing and information ethics. The core emphasis is on integrated decision-making in the age of globalization.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MIS 74047 MANUFACTURING TECHNOLOGY AND STRATEGY 3 Credit Hours**

This course provides the student with an introduction to modern techniques in manufacturing and the necessary strategic concepts to implement them. A similar discussion of service industries is also included.

**Prerequisite:** Doctoral standing; and special approval of instructor.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MIS 74080 EMERGING HARDWARE AND SOFTWARE TECHNOLOGIES 3 Credit Hours**

Investigation of selected emerging hardware and software technologies such as parallel processing systems, computer languages and operation systems, artificial intelligence, neural networks and chaos theory.

**Prerequisite:** Doctoral standing; and special approval of instructor.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MIS 74081 DATA COMMUNICATIONS AND NETWORKING IN BUSINESS 3 Credit Hours**

An introduction to telecommunications and computer networks. Topics include telecommunications technologies and services, communication standards and protocols, local area networks and network management.

**Prerequisite:** Doctoral standing; and special approval of instructor.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MIS 74082 DATABASE MANAGEMENT AND DATABASE ANALYTICS 3 Credit Hours**

The design, implementation and management of database management systems within organizations are studied from an applied perspective. Additional emphases include data warehousing, structured query language for analytics, and introductions to NoSQL databases and big data analytics.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MIS 74160 LEADERSHIP AND ORGANIZATIONAL CHANGE 3 Credit Hours**

(Slashed with MIS 641 60) Develop understanding of the theories and techniques needed for the successful management of significant organizational change with emphasis on discussion, exercises and case studies.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MIS 74185 BUSINESS STRATEGY 3 Credit Hours**

Integrative approach to the study of policy formulation and implementation. Formalized planning systems reviewed case analysis of actual business situations helps student further develop analytical and communication skills.

**Prerequisite:** Doctoral approval; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MIS 74263 EMPLOYEE SELECTION AND APPRAISAL 3 Credit Hours**

This course will focus primarily on issues associated with the person/job matching process in modern organizations related to the selection and appraisal of employees.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MIS 74270 ORGANIZATIONAL ANALYSIS 3 Credit Hours**

Theoretical basis and research findings are discussed, permitting the student to analyze and understand complex work organizations. Data provided prepares the student to analyze, design and solve organizational problems within the work environment.

**Prerequisite:** Doctoral standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MIS 74275 STRATEGIC GLOBAL MANAGEMENT 3 Credit Hours**

Strategic global management explores micro-level concepts and strategic managerial alternatives within the context of current global business operations in the political, economic and cultural environment facing today's manager.

**Prerequisite:** Doctoral standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MIS 84007 PHILOSOPHY OF SCIENCE AND BUSINESS MODELS 3 Credit Hours**

Introductory seminar for understanding the forms and the process of business research. Its major objective is to help seminar participants understand the various philosophies that drive business research in an academic community, and introductory methods of social science research. Additionally, the seminar seeks to develop participant motivation to become a contributor to the organizational sciences communities by examining: 1. The research process, methodologies and strategies. 2. Research Paradigms, Modes and Contexts of Inquiry. 3. The nature of organizational sciences research. 4. The major streams of business research. 5. Understanding ontological choice of constructs and defining epistemic relationships between constructs. 6. Building hypotheses and socio-technical models. 7. Research design, data requirements and collection techniques, ethics and philosophies.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MIS 84011 SYSTEMS SIMULATION 3 Credit Hours**

Techniques and applications of computer simulation of existing or proposed real-world systems. Use of simulation language, simulation studies, analysis of interpretation and of results.

**Prerequisite:** Doctoral standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MIS 84012 SCHEDULING AND PLANNING 3 Credit Hours**

Course is a doctoral seminar on scheduling and planning models that are used in operations and production management. The goal is to expose students to a portfolio of scheduling and planning models to stimulate research ideas in scheduling and planning models that will lead to the development of a research program for your doctoral research.

**Prerequisite:** Doctoral standing in the college of business administration.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MIS 84015 STOCHASTIC MODELS 3 Credit Hours**

Mathematical modeling of systems involving one or more random variables, and stochastic processes: basic probability theory; Poisson process, Markov chain and Markov process with applications to production, inventory, reliability and queueing systems.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MIS 84023 LINEAR STATISTICAL MODELS 3 Credit Hours**

Linear statistical models for regression and analysis of variance.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MIS 84045 SOCIAL ISSUES IN INFORMATION SYSTEMS 3 Credit Hours**

Social issues in information systems arise at the interface between information systems and individuals, groups and society. The course will begin with a broad exposure to current social issues, moving to an examination of specific issues in detail with issues chosen by student interest and instructor consent.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MIS 84047 VALUE AND SUPPLY CHAIN MANAGEMENT 3 Credit Hours**

This course is a doctoral seminar for students who seek an in-depth understanding of the current research literature in supply chain management. The seminar is designed into three modules. The first module covers the conceptual foundation for understanding value and supply chains from an interdisciplinary perspective. The second module focuses on the basis of supply chain modeling using optimization and simulation. The third module serves to integrate the previous modules with the objective of the student producing a research paper for journal submission.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MIS 84080 INNOVATION, ADOPTION, DIFFUSION 3 Credit Hours**

Provides students with theoretical foundations of adoption and diffusion of technological innovations in organizations and society. Topics include: determinants of organizational innovation by acquisition; individual- and organizational-level technology adoption; diffusion of technologies through social systems; and the infusion and assimilation of technologies in organizations.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MIS 84081 INFORMATION SYSTEMS STRATEGY AND INNOVATION 3 Credit Hours**

This course explores the basis of strategy, deployment and competition in high- technology industries. It introduces conceptual frameworks based on cutting-edge research in economics and strategy. The frameworks may seem abstract at first, but we will focus on mastering them will gain an in-depth understanding of how high-technology industries work and how to develop strategies for managing firms in such industries. Students will learn how to develop and apply such frameworks in their research.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MIS 84082 DATABASE MANAGEMENT SYSTEMS 3 Credit Hours**

In-depth investigation of intelligent database management systems in support of business decision- making. An understanding of relational databases is assumed. Object-orientation and other advanced database concepts will be explored.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MIS 84108 ACQUIRING HUMAN RESOURCES 3 Credit Hours**

Course provides foundation for understanding issues related to the acquisition of human resources in an organization. Students will learn issues related to employment law, job analysis, job design, planning, recruitment, selection.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MIS 84112 RESEARCH METHODOLOGY 3 Credit Hours**

The objectives of this course are: to formulate a research problem and develop testable research hypotheses; develop research skills by learning the different research methods and techniques; explain information contained in research statistical outputs such as SAS and SPSS enable students to conduct meaningful and high quality research in their specific field of interest.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MIS 84261 STRATEGIC DECISION-MAKING AND HUMAN RESOURCE MANAGEMENT 3 Credit Hours**

Provides a first graduate-level introduction to the fundamental concepts of HRM/OB and strategic decision-making.

**Prerequisite:** Doctoral standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MIS 84262 THEORY OF THE FIRM 3 Credit Hours**

Course focuses on developing a deep understanding of modern strategic theory in relation to other allied fields. Students will review fundamental concepts of strategic thinking and theory development and then move to contemporary theoretical issues including transaction-cost economics, the resource-based view, the emerging theories of real options and of dynamic capabilities, strategic optimization and constraint theory, and dealing with uncertainty through scenario-driven planning.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MIS 84263 OPTIMIZING HUMAN RESOURCES 3 Credit Hours**

Students learn areas of human resources management that include training and development, performance management, compensation and retention or turnover.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MIS 84266 STATISTICS FOR MANAGEMENT 3 Credit Hours**

Survey of the leading writers and research studies in the area of management systems. The course addresses methodologies, major theoretical developments and practical applications.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MIS 84275 THEORETICAL AND EMPIRICAL GLOBAL STRATEGY 3 Credit Hours**

Focuses on review and integration of the several streams of literature dealing with strategy for, and management of, the product-diversified and/or internationally-diversified firm. Also, in order to complement the emphasis of other doctoral offerings on strategy formulation topics, this seminar places a special emphasis on strategy process, organizational structure, and administrative mechanisms. In particular, it explores the foundations as well as current research on corporate governance, broadly define. This includes (I) the set of mechanisms available to align the interest of top managers to those of shareowners, as well as (II) the mechanisms available to motivate and control middle managers so that their decisions and behaviors are aligned with intended corporate and/or international strategy and goals.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MIS 84277 ORGANIZATIONAL BEHAVIOR AND THEORY 3 Credit Hours**

An examination of theory and research on individual and group behavior in organizations. Special attention is given to theories of motivation, job satisfaction, goal setting, task design, feedback systems, group dynamics, power and teams.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MIS 84285 TECHNOLOGY AND INNOVATION STRATEGY 3 Credit Hours**

Covers topics pertaining to innovation management at micro-level (entrepreneurship, corporate entrepreneurship), meso-level (networks), and macro-level (cross-country and within-country comparisons).

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MIS 84291 SEMINAR IN MANAGEMENT SYSTEMS 3 Credit Hours**

(Repeatable for credit) Intensive investigation of selected topics in organization and strategic management. Student will be expected to undertake research on a topic determined in joint consultation with the instructor.

**Prerequisite:** Doctoral standing; and special approval of instructor.

**Schedule Type:** Seminar

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

## Managerial Marketing (MMTG)

### MMTG 35011 MARKETING TOOLS (WIC) 3 Credit Hours

Provides an overview of the analytical, communication, and decision-making skills that students will need to succeed in subsequent coursework and as a marketing professional. Topics include strategic analysis, financial analysis, case analysis, marketing decision-making, and persuasive communications.

**Prerequisite:** Minimum C grade in ENG 21011, COMM 15000, MATH 11010; CIS 24053 or IT 11000; MKTG 25010 or BMRT 21050; and minimum 2.500 overall GPA; and managerial marketing major.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Writing Intensive Course

### MMTG 35021 RESEARCH FOR MARKETING DECISIONS 3 Credit Hours

Focuses on the effective collection, organization, evaluation, and use of data to make marketing decisions. Emphasis on methods for collecting, analyzing, interpreting, and communicating data in the context of marketing decision-making.

**Prerequisite:** MMTG 35011 with a minimum C grade; and minimum 2.500 overall GPA; and managerial marketing major.

**Pre/corequisite:** MGMT 24056.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

### MMTG 35024 MARKETING TOOLS LABORATORY 1 Credit Hour

Extended practice and use of software to enhance financial analysis and communication skills. Emphasizes the use of Microsoft Office software to enhance marketing decision-making and persuasive presentation skills. Incorporates professional development skills and opportunities. Should be taken concurrently with the Marketing Tools (MMTG 35011) course.

**Prerequisite:** ENG 21011, COMM 15000, MATH 11010; and CIS 24053 or IT 11000; and MKTG 25010 or BMRT 21050 with minimum C (2.00); minimum 2.500 overall GPA; and managerial marketing major.

**Schedule Type:** Laboratory

**Contact Hours:** 2 lab

**Grade Mode:** Standard Letter

### MMTG 35025 MARKETING COMMUNICATIONS LABORATORY 1 Credit Hour

Extended practice and use of software to enhance marketing communications skills. Emphasizes the use of software to develop and execute specific marketing communications tools. Incorporates traditional and contemporary communications tools with a focus on tools that are typically created in-house by marketers.

**Prerequisite:** ENG 21011, COMM 15000 and MATH 11010; and CIS 24053 or IT 11000; and MKTG 25010 or BMRT 21050 with a minimum C grade; and minimum 2.500 overall GPA; and managerial marketing major.

**Schedule Type:** Laboratory

**Contact Hours:** 2 lab

**Grade Mode:** Standard Letter

### MMTG 35026 MARKETING RESEARCH LABORATORY 1 Credit Hour

Extended practice and use of software to enhance data analysis and communication skills. Emphasizes the collection and analysis of research data for marketing decision-making. Incorporates the use of data analysis software. Should be taken concurrently with the Research for Marketing Decisions (MMTG 35021) course.

**Prerequisite:** MMTG 35011 with a minimum C grade; and minimum 2.500 overall GPA; and managerial marketing major.

**Schedule Type:** Laboratory

**Contact Hours:** 2 lab

**Grade Mode:** Standard Letter

### MMTG 35030 SALES AND SALES MANAGEMENT 3 Credit Hours

Focuses on the fundamentals of selling and sales management with emphasis on persuasive communication and understanding others' perspectives to reach a "win-win" outcome. Incorporates sales management strategies and the planning and leadership skills of a sales manager. Students will engage in one-on-one role playing and simulated selling scenarios.

**Prerequisite:** MMTG 35011 with a minimum C grade; and minimum 2.500 overall GPA; and managerial marketing major.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

### MMTG 45020 COMPETITIVE MARKET ANALYSIS 3 Credit Hours

Focuses on establishing and maintaining a competitive market position through product and pricing strategies driven by industry and competitive analysis. Students will participate in a marketing simulation where they will make marketing decisions and strive to compete effectively.

**Prerequisite:** MMTG 35021 and MMTG 35030; and minimum 2.500 overall GPA; and managerial marketing major.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

### MMTG 45023 CUSTOMER ANALYSIS 3 Credit Hours

Focuses on the methods marketers use to analyze and understand their customers. Incorporates market segmentation and targeting, understanding consumer and buyer decision-making, and customer relationship management. Students will complete a segmentation plan for a client firm.

**Prerequisite:** MMTG 35021 and MMTG 35030; and minimum 2.500 overall GPA; and managerial marketing major.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

### MMTG 45039 PROMOTION MANAGEMENT 3 Credit Hours

Focuses on the use of promotional tools to communicate marketing strategies to customers. Emphasis on both traditional and contemporary promotional tools, including new technologies in marketing communications. Considers the selection, planning, and implementation of promotional tools. Students will complete a communications plan for a client firm.

**Prerequisite:** MMTG 45020 and 45023; and minimum 2.500 overall GPA; and managerial marketing major.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter



**MMTG 45040 INTEGRATED MARKETING STRATEGY (ELR) 3 Credit Hours**

Capstone course for managerial marketing majors. Emphasis is on the integration of marketing concepts, methods, and skills from prior coursework to make sound marketing decisions. Students will complete a marketing plan for a client firm.

**Prerequisite:** MMTG 45020 and MMTG 45023; and minimum 2.500 overall GPA; and managerial marketing major.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Experiential Learning Requirement

**MMTG 45195 SPECIAL TOPICS IN MANAGERIAL MARKETING 1-4 Credit Hours**

Special Topics in Managerial Marketing permits the exploration of topics not covered, or are not covered in as much depth, in scheduled courses.

Hours of credit depend on scope of project.

**Prerequisite:** Minimum 2.500 overall GPA; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 1-4 lecture

**Grade Mode:** Standard Letter

## Marketing (MKTG)

**MKTG 25010 PRINCIPLES OF MARKETING 3 Credit Hours**

(Equivalent to BMRT 21050) An overview of the processes, activities and problems associated with the conception, planning and execution of the pricing, promotion and distribution of ideas, goods and services to create exchange values in the market.

**Prerequisite:** ECON 22060.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** TAG Business

**MKTG 35030 MARKETING APPLICATIONS 3 Credit Hours**

Students learn and apply strategic and financial analysis skills to make real-world marketing decisions. Emphasis on marketing planning and core strategic decisions in marketing, including segmentation, targeting and positioning.

**Prerequisite:** MKTG 25010 with a minimum C grade; and minimum 2.500 overall GPA; and marketing major.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MKTG 35035 CONSUMER BEHAVIOR 3 Credit Hours**

Focus is on the decision-making processes of the individual consumer and the psychological, sociological, cultural and economic factors that influence those choices. Understanding why consumers behave in the way that they do is the heart of the study of consumer behavior and informs the formulation of marketing strategy. Periodically offered as an online course.

**Prerequisite:** MKTG 25010.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MKTG 35050 MARKETING RESEARCH 3 Credit Hours**

Focus is on the collection and analysis of new marketing data, both for exploratory and for decision-making purposes. Students work individually and in teams developing and communicating responses to managerial questions.

**Prerequisite:** MKTG 25010 and MGMT 24056; and minimum 2.500 overall GPA.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MKTG 35056 SOCIAL MEDIA MARKETING 3 Credit Hours**

Explore the various opportunities and risks that social media marketing holds for firms. During the course students will learn about topics such as social media's effect on marketing, creating and managing brand presences on social media, creating and marketing a branded viral video, identifying online influencers, analyzing.

**Prerequisite:** MKTG 25010; and minimum GPA 2.500; and junior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MKTG 35061 MARKETING ANALYTICS 3 Credit Hours**

This course presents an overview of the process of conducting marketing analytics in a business organization. Broadly, this process encompasses distilling management questions into its causes and consequences, determining data requirements, assembling a data set amenable to analysis, model selection, analysis, and the communication of analytics insights. Consequently, marketing analytics is discussed as a rich, data-driven process to visualize, predict and improve business outcomes, and how to think about analysis and how to communicate its results are emphasized.

**Prerequisite:** MGMT 24056; and a managerial marketing major or marketing major or entrepreneurship major.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MKTG 45045 ADVERTISING AND PROMOTION MANAGEMENT 3 Credit Hours**

Increases students' understanding of advertising concepts as well as structure and functions of different 'players' within the industry.

Integrates marketing and advertising theory with application in advertising decision-making. Periodically offered as an online course. Not open to Managerial Marketing (MMTG) majors.

**Prerequisite:** MKTG 25010 or BMRT 21050.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MKTG 45046 PERSONAL SELLING 3 Credit Hours**

Introduces students to effective communication, successful selling and persuasion techniques, building customer relationships, ethics, the buying and selling process, and developing professional sales calls.

**Prerequisite:** MKTG 25010 or BMRT 21050 or MKTG 35035; and not open to managerial marketing majors.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MKTG 45047 ADVANCED PROFESSIONAL SELLING 3 Credit Hours**

Builds on the foundation established in Personal Selling and Sales Management (MKTG 45046) by applying sales concepts, participating in live sales calls with Business Partner Company Sales Reps, spending highly focused time in role plays with immediate feedback from the instructors, interacting with guest speakers who are experts in sales, and studying advanced sales and persuasion techniques. Experiential course that requires some flexibility with scheduling for the shadow experiences.

**Prerequisite:** MKTG 45046 or MMTG 35030 or ENTR 37045; and minimum 2.500 overall GPA.  
**Schedule Type:** Laboratory, Lecture, Combined Lecture and Lab  
**Contact Hours:** 2 lecture, 2 lab  
**Grade Mode:** Standard Letter

**MKTG 45060 INTERNATIONAL MARKETING 3 Credit Hours**

Examination of international marketing in terms of global markets and trade. Emphasizes differences among markets caused by geography, politics, economics, culture, commercial policy and trade practices. Periodically offered as an online course.

**Prerequisite:** MKTG 25010 or BMRT 21050 or MKTG 35035.  
**Schedule Type:** Lecture  
**Contact Hours:** 3 lecture  
**Grade Mode:** Standard Letter

**MKTG 45082 SERVICES MARKETING 3 Credit Hours**

Provides an integrated understanding of what is required to develop and market a successful service to a chosen target market. Positioning of a service product can be achieved through the "4 Ps" tactics originally used for goods marketing in addition to three new Ps" for services, which include design of the delivery process, recruitment and training of people, and developing appropriate physical evidence. Readings, lectures, tests, and experiential activities are used to develop and assess learning.

**Prerequisite:** MKTG 25010; and minimum 2.500 overall GPA.  
**Schedule Type:** Lecture  
**Contact Hours:** 3 lecture  
**Grade Mode:** Standard Letter

**MKTG 45084 MARKETING POLICIES AND STRATEGIES (ELR) (WIC) 3 Credit Hours**

Capstone course for marketing majors. Course deals with marketing policies and strategies with emphasis on managerial decision-making case approach.

**Prerequisite:** MKTG 35030 with a minimum C grade; and minimum 2.500 overall GPA; and marketing major; and senior standing.  
**Schedule Type:** Lecture  
**Contact Hours:** 3 lecture  
**Grade Mode:** Standard Letter  
**Attributes:** Experiential Learning Requirement, Writing Intensive Course

**MKTG 45091 MARKETING SEMINAR 1-4 Credit Hours**

(Repeatable for credit) Current topics in marketing. Certain sections of this variable topic seminar may require instructor special approval or have further prerequisites. See current schedule of classes.

**Prerequisite:** MKTG 25010 or BMRT 21050 or MKTG 35035; and minimum 2.500 overall GPA.  
**Schedule Type:** Seminar  
**Contact Hours:** 1-4 other  
**Grade Mode:** Standard Letter

**MKTG 45095 SPECIAL TOPICS IN MARKETING 1-4 Credit Hours**

(Repeatable for credit) Special Topics in Marketing permits the exploration of topics that are not covered, or not covered in as much depth, in scheduled courses. Credit hours depend on the scope of the project.

**Prerequisite:** Minimum 2.500 overall GPA; and special approval.  
**Schedule Type:** Lecture  
**Contact Hours:** 1-4 lecture  
**Grade Mode:** Standard Letter

**MKTG 45096 INDIVIDUAL INVESTIGATION IN MARKETING 1-3 Credit Hours**

(Repeatable for credit) Independent investigation of appropriate problem undertaken by a senior marketing major.

**Prerequisite:** Special approval.  
**Schedule Type:** Individual Investigation  
**Contact Hours:** 1-6 other  
**Grade Mode:** Standard Letter

**MKTG 45187 INTERNATIONAL EXPERIENCE IN MARKETING 3 Credit Hours**

The student will gain firsthand exposure to international businesses and organizations generally relating to business and specifically relating to marketing. The course includes pre-trip orientation sessions, visits to international businesses and organizations, and opportunities for cultural activities.

**Prerequisite:** MKTG 25010; and a marketing, managerial marketing, or entrepreneurship major; and special approval.  
**Schedule Type:** Field Experience  
**Contact Hours:** 9 other  
**Grade Mode:** Standard Letter

**MKTG 45192 SALES INTERNSHIP (ELR) 3 Credit Hours**

Supervised practical experience in sales with a business. An internship application and faculty approval are needed prior to registration for this course.

**Prerequisite:** MKTG 45046 or MMTG 35030 or ENTR 37045; and special approval.  
**Schedule Type:** Practical Experience  
**Contact Hours:** 9 other  
**Grade Mode:** Standard Letter  
**Attributes:** Experiential Learning Requirement

**MKTG 45292 MARKETING INTERNSHIP (ELR) 3 Credit Hours**

Preparation of research report concurrent with on-the-job experience with cooperating business or other organization.

**Prerequisite:** MKTG 25010 or BMRT 21050 or MKTG 35035; and special approval.  
**Schedule Type:** Individual Investigation, Practical Experience  
**Contact Hours:** 9 other  
**Grade Mode:** Standard Letter  
**Attributes:** Experiential Learning Requirement

**MKTG 65050 MODERN ENTREPRENEURIAL MANAGEMENT 3 Credit Hours**

(Slashed with MKTG 75050) Analysis and application of the key elements of both entrepreneurship (new business starts) and entrepreneurship in existing companies.

**Prerequisite:** Completion of 24 credit hours of Business Administration (BAD) courses and Graduate standing.  
**Schedule Type:** Lecture  
**Contact Hours:** 3 lecture  
**Grade Mode:** Standard Letter

**MKTG 65051 MARKETING MANAGEMENT 2 Credit Hours**

Analysis of marketing management at a level appropriate to students with limited background in the subject. The course will include lectures, and will integrate a major experiential component (e.g., a marketing simulation, a client-based project, etc.). Services, global marketing, and legal and ethical issues will be integrated across topic areas.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**MKTG 65053 PROMOTION MANAGEMENT 3 Credit Hours**

(Slashed with MKTG 75053) All elements of the promotional mix (advertising, sales, promotion, publicity, public relations and personal selling) are considered as part of an integrated communications strategy. Primary emphasis is placed on advertising. A comprehensive set of analytical frameworks are developed, covering a range of topics from the firm's marketing strategy to the message strategy embodied in a single advertisement. These analytic frameworks are applied to a series of case studies throughout the course.

**Prerequisite:** MKTG 65051; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MKTG 65054 INTERNATIONAL MARKETING 3 Credit Hours**

Course focuses on the types of marketing decisions facing the international marketing manager or vice president in the multinational firm.

**Prerequisite:** MKTG 65051; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MKTG 65057 MARKETING RESEARCH 3 Credit Hours**

(Slashed with MKTG 75057) Examination of the research process as applied to decision making. Course focuses on steps in problem formulation the research process application of techniques and basis data analysis using SPSS-PC.

**Prerequisite:** MKTG 65051; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MKTG 65060 MARKETING STRATEGY AND PLANNING 3 Credit Hours**

Focuses on integration of marketing planning into the strategic planning process. Deals mostly with marketing strategy at the level of senior management rather than operations.

**Prerequisite:** MKTG 65051; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MKTG 65064 BUYER BEHAVIOR 3 Credit Hours**

(Slashed with MKTG 75064) An analysis of the concepts of buyer/consumer behavior, focusing on the behavioral sciences theories underlying marketing models and their application to marketing strategies.

**Prerequisite:** MKTG 65051; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MKTG 65184 INTERNATIONAL BUSINESS 3 Credit Hours**

(Slashed with MKTG 75184) Study of the business firm in a global context. Application of theory and practice of American business administration to international operations of firms.

**Prerequisite:** ECON 62021; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MKTG 75050 MODERN ENTREPRENEURIAL MANAGEMENT 3 Credit Hours**

(Slashed with MKTG 65050) Analysis and application of the key elements of both entrepreneurship (new business starts) and entrepreneurship in existing companies.

**Prerequisite:** Doctoral standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MKTG 75051 MARKETING MANAGEMENT 3 Credit Hours**

(Slashed with MKTG 65051) Analysis of marketing management at a level appropriate to students with limited background in the subject. Course encompasses lecture discussion problems and cases.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MKTG 75053 PROMOTION MANAGEMENT 3 Credit Hours**

(Slashed with MKTG 65053) All elements of the promotional mix (advertising, sales, promotion, publicity, public relations and personal selling) are considered as part of an integrated communications strategy. Primary emphasis is placed on advertising. A comprehensive set of analytical frameworks are developed, covering a range of topics from the firm's marketing strategy to the message strategy embodied in a single advertisement. These analytic frameworks are applied to a series of case studies throughout the course.

**Prerequisite:** MKTG 75051; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MKTG 75057 MARKETING RESEARCH 3 Credit Hours**

(Slashed with MKTG 65057) Examination of the research process as applied to decision making. Course focuses on steps in problem formulation, the research process, application of techniques, and basis data analysis using SPSS-PC.

**Prerequisite:** MKTG 65051 or 75051; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MKTG 75064 BUYER BEHAVIOR 3 Credit Hours**

(Slashed with MKTG 65064) An analysis of the concepts of buyer/consumer behavior, focusing on the behavioral sciences theories underlying marketing models and their application to marketing strategies.

**Prerequisite:** MKTG 75051; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MKTG 75184 INTERNATIONAL BUSINESS 3 Credit Hours**  
(Slashed with MKTG 65184) Study of the business firm in a global context. Application of theory and practice of American business administration to international operations of firms.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MKTG 85054 INTERNATIONAL MARKETING 3 Credit Hours**  
This course focuses on the types of marketing decisions facing the international marketing manager or vice president in the multinational firm.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MKTG 85057 RESEARCH DESIGN 3 Credit Hours**  
Focuses on the construction of a conceptual framework; the design of an experiment sampling plan data collection methods and the application of statistical techniques.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Seminar

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MKTG 85060 MARKETING STRATEGY AND PLANNING 3 Credit Hours**  
Focuses on integration of marketing planning into the strategic planning process. Deals mostly with marketing strategy at the level of senior management rather than operations.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MKTG 85063 ANALYTICAL METHODS IN MARKETING RESEARCH 3 Credit Hours**  
Application of multivariate statistical techniques in marketing research.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter-IP

**MKTG 85064 BUYER BEHAVIOR 3 Credit Hours**  
An analysis of extant and emerging theories, models and concepts of buyer consumer behavior and their development and testing.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter-IP

**MKTG 85066 MARKETING THEORY 3 Credit Hours**  
The central objective of the course is to develop the doctoral student's background in marketing theory, theory construction and the creation of marketing knowledge.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter-IP

**MKTG 85091 ADVANCED INTERNATIONAL MARKETING SEMINAR 3 Credit Hours**  
(Repeatable for credit) Covers the theoretical research development of the field of international marketing.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Seminar

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter-IP

**MKTG 85097 SEMINAR IN MARKETING AND ENTREPRENEURSHIP 3 Credit Hours**  
(Repeatable for a maximum of 6 credit hours) This course is designed to provide doctoral students with a broad exposure to a current and substantive topic area in either marketing or entrepreneurship. This course will expose students to classic and new ideas, help them critically analyze these ideas, and provide them with the opportunity to relate these ideas to their own research interests.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Colloquium

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**MKTG 85098 RESEARCH IN MARKETING 3 Credit Hours**  
(Repeatable for credit) Designed to assist students in developing dissertation topics or to provide an opportunity to study material or topic not covered elsewhere in the program.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Research

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

## Materials Science (MTSC)

**MTSC 60199 THESIS I 2-6 Credit Hours**  
Thesis students must register for a total of 6 credit hours, 2 to 6 credit hours in a single semester or distributed over two semesters if desired.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Masters Thesis

**Contact Hours:** 2-6 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**MTSC 60299 THESIS II 2 Credit Hours**  
Thesis students must continually register each semester until all degree requirements are met.

**Prerequisite:** MTSC 60199; and graduate standing.

**Schedule Type:** Masters Thesis

**Contact Hours:** 2 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**MTSC 60498 RESEARCH 1-15 Credit Hours**  
(Repeatable for credit) Research or individual investigation. Credits earned may be applied toward meeting degree requirements with department approval. Prerequisite: Graduate standing; and special approval

**Schedule Type:** Research

**Contact Hours:** 3-45 other

**Grade Mode:** Satisfactory/Unsatisfactory



**MTSC 62241 STATISTICAL MECHANICS OF SOFT MATTER 3 Credit Hours**

(Slashed with MTSC 72241) Lectures on order, disorder and phase transitions in soft matter. Materials include magnets, gases, liquids, crystalline and amorphous solids and liquid crystals. Theoretical concepts include order parameters to describe broken symmetry, mean-field theory, Landau theory for uniform and nonuniform systems, elasticity of orientational order and topological defects.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MTSC 62242 CHARACTERIZATION OF SOFT MATTER 3 Credit Hours**

(Slashed with MTSC 72242) Course provides students with the fundamentals of the most commonly used techniques for the study and understanding of soft matter at the macroscopic and microscopic level, especially at the nanometer scale. The advancement in basic soft matter research is generally driven by the experimental techniques available and the interdisciplinary knowledge among condensed matter physicists, biologists, synthetic and physical chemists, as well as chemical and polymer engineers.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MTSC 62245 FUNDAMENTALS OF LIQUID CRYSTAL SCIENCE 4 Credit Hours**

(Slashed with MTSC 72245) Basic liquid crystals structures and their main physical properties, such as visco-elastic, electric, magnetic and optical properties, except the nature of their phase transitions. Also discussed are their interactions with surfaces and the structural defects that they can form.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 4 lecture

**Grade Mode:** Standard Letter

**MTSC 62248 LIQUID CRYSTAL OPTICS AND PHOTONICS 4 Credit Hours**

(Slashed with MTSC 72248) Optics of cholesterics, liquid crystalline photonic bandgap materials, nonlinear optics of liquid crystals; optomechanical effects in liquid crystal elastomers.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 4 lecture

**Grade Mode:** Standard Letter

**MTSC 62249 LABVIEW FOR DATA ACQUISITION AND INSTRUMENT CONTROL 1 Credit Hour**

(Slashed with MTSC 72249) Introduction to laboratory data acquisition and instrument control using LabVIEW software.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 1 lecture

**Grade Mode:** Satisfactory/Unsatisfactory

**MTSC 62335 ADVANCED LIQUID CRYSTALLINE AND POLYMERIC MATERIALS 4 Credit Hours**

(Slashed with MTSC 72335) Course introduce students to recent advances in liquid crystals and polymers with emphasis on structure-property relationships, physical and optical properties, and their applications. Liquid crystals and polymers are soft matters of two important disciplines of science and technology. They both have a similar history and are rich in physical and optical properties useful for fundamental and applied research.

**Prerequisite:** Graduate standing.

**Schedule Type:** Laboratory, Lecture, Combined Lecture and Lab

**Contact Hours:** 3 lecture, 2 lab

**Grade Mode:** Standard Letter

**MTSC 62450 LIQUID CRYSTAL OPTICS I: THEORY 2 Credit Hours**

(Slashed with MTSC 72450) Provides an introduction to optical phenomena with an emphasis on liquid crystals, from geometrical optics to Maxwell's equations. Basic principles are used to analyze and solve optics problems arising in liquid crystal engineering.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**MTSC 62452 LIQUID CRYSTAL OPTICS II: OPTICAL SYSTEMS 2 Credit Hours**

(Slashed with MTSC 72452) Focuses on the study of practical optical systems with an emphasis on liquid crystals. Students study the principles of optical system design starting with the understanding of basic optical components such as lenses, mirrors, filters and polarizers. Practical concepts and techniques for the implementation of optical instruments and displays are mastered through lectures and lab work.

**Prerequisite:** MTSC 62450; and graduate standing.

**Schedule Type:** Laboratory, Lecture, Combined Lecture and Lab

**Contact Hours:** 1 lecture, 2 lab

**Grade Mode:** Standard Letter

**MTSC 62460 LIQUID CRYSTAL MATERIALS SCIENCE 2 Credit Hours**

(Slashed with MTSC 72460) Familiarizes students with the basic, underlying chemical concepts in liquid crystal science. These concepts include molecular structures and properties of liquid crystal molecules, miscibility rules and micro-segregation of chemically incompatible molecular segments, physical and electronic properties of aromatic compounds including heterocycles and fluorinated aromatics, properties of aliphatic and perfluorinated hydrocarbons, unsaturation, and chirality. Other aspects covered in later sections of this course relate to auxiliary and novel materials used in liquid crystal devices such as polymers, carbon nanomaterials, metal and semiconductor nanoparticles and photo-responsive organic materials.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**MTSC 62462 LIQUID CRYSTAL SCIENCE: PHYSICAL PROPERTIES 3 Credit Hours**

(Slashed with MTSC 72462) Basics of liquid crystal defects and their behavior in magnetic and electric fields.

**Prerequisite:** Graduate standing.

**Pre/corequisite:** MTSC 62460.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter



**MTSC 62640 LIQUID CRYSTAL, POLYMER AND COLLOID COMPOSITES 4 Credit Hours**

(Slashed with MTSC 72640) Interdisciplinary science of systems consisting of liquid crystal, polymer and colloid. Statistical physics of composite systems, mixing free energy, phase separation principle, phase diagrams and phase separation dynamics. States, structures and free energies of liquid crystal, polymer and colloidal systems. Polymer dispersed liquid crystals (PDLC), polymer stabilized liquid crystals (PSCT) and their applications. Laboratory experiments on composite systems and fabrication of PDLC and PSCT light shutters.

**Prerequisite:** Graduate standing.

**Schedule Type:** Laboratory, Lecture, Combined Lecture and Lab

**Contact Hours:** 3 lecture, 2 lab

**Grade Mode:** Standard Letter

**MTSC 62643 ELECTRO-OPTICS OF LIQUID CRYSTALS: MODELING AND DEVICE DESIGN 3 Credit Hours**

(Slashed with MTSC 72643) Apply knowledge of liquid crystals and optics to the design of liquid crystal electro-optical devices. Emphasis is on modeling of devices and the use of that modeling to optimize device characteristics. Several particular device designs are considered to familiarize students with the state of the art in electro-optical applications of liquid crystals and to prepare them to advance the art in future designs.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MTSC 62647 STRUCTURED FLUIDS 3 Credit Hours**

(Slashed with MTSC 72647) The basics of fluids having internal structures, such as long range orientational order and or one and two dimensional positional order. Materials include thermotropic smetic, lamellar lyotropic and columnar liquid crystals, soap films, fluid foams, fluid fibers and Langmuir monolayers.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MTSC 62650 COMPUTATIONAL MATERIALS SCIENCE 3 Credit Hours**

(Slashed with MTSC 72650) Materials modeling at the classical (i.e. non-quantum) level. Monte Carlo methods; molecular dynamics simulation; mesoscale models; numerical methods; case studies.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MTSC 62651 NANOBIO TECHNOLOGY 3 Credit Hours**

(Slashed with MTSC 72651) Course presents the concepts, principles and the state-of-the-arts of nanotechnologies and their applications in biological and biomedical science and engineering. Focus is on the fundamental physical principles and engineering technologies of device miniaturization and system integration for bioapplications.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MTSC 63000 PHYSICS OF SOFT MATTER 3 Credit Hours**

(Slashed with MTSC 73000) Students learn the basics of physics of soft matter, including polymers, liquid crystals, colloids, reduced dimensionality fluids and active matter. Course provides students a coherent and deep understanding of the most important concepts and scientific results of soft matter, such as nano-, and microscopic structures, mechanical, electrical and optical properties.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MTSC 63010 LYOTROPIC LIQUID CRYSTALS 3 Credit Hours**

(Slashed with MTSC 73010) Course covers the fundamentals and the chemical aspects of different types of lyotropic liquid crystals (organic, inorganic, composites) leading to a discussion of phase diagrams and a comprehensive discussion of the characterization techniques of lyotropic liquid crystals. Focuses on some key aspects related to the use of lyotropic liquid crystals in pharmacological and medical applications such as drug delivery and the use of lyotropic liquid crystals as templates or 'reactors' for nanoscale synthesis and mesoscale manufacturing.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MTSC 63015 CHEMISTRY OF SOFT MATTER 3 Credit Hours**

(Slashed with MTSC 73015) Course familiarizes students with the basic underlying chemical concepts in soft matter science, focusing on the most important chemical building blocks in soft matter, IUPAC rules for naming them, miscibility rules and micro-segregation of chemically incompatible molecular segments, physical and electronic properties of aromatic compounds, including heterocyclic and fluorinated aromatics, properties of aliphatic and perfluorinated hydrocarbons, unsaturation, structure-property relationships and all levels of chirality (molecular to supramolecular). Other topics focus on specific types of materials explored in soft matter such as polymers, liquid crystals, carbon nanomaterials, metal and semiconductor nanoparticles and light-responsive organic materials, gels, foams and colloids.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MTSC 63020 APPLICATIONS OF SOFT MATTER 3 Credit Hours**

(Slashed with MTSC 73020) Course covers the applications of soft matter that include electro-optical, sensor and biological applications. Recent developments related to emerging applications are covered.

**Prerequisite:** MTSC 63000; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MTSC 63025 ACTIVE MATTER 2 Credit Hours**

(Slashed with MTSC 73025) The course is designed to teach the science of active matter which embraces a broad range of dynamic out-of-equilibrium systems comprised of interacting units that are capable of converting stored energy or the energy of the environment into systematic motion. Examples include colloids powered by an electric field, swimming bacteria and living liquid crystals. Theoretical models considered are Vicsek model and Toner-Tu model. The course will provide a coherent picture of the dynamic out-of-equilibrium phenomena.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**MTSC 63100 EMERGING DISPLAY TECHNOLOGIES 2 Credit Hours**

(Slashed with MTSC 73100) This course focuses on the fundamentals and applications of latest display technologies in transmissive, reflective and emissive displays as well as free-space display technologies. This course is aimed for students who wish to learn more, not limited to liquid crystal devices and applications, but also wide ranges of current and future display technologies, and will intergrate among materials science, physics and engineering with display technologies ranging from direct-view, flexible, wearable and free-space displays.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**MTSC 64491 SEMINAR: LIQUID CRYSTALS 1 Credit Hour**

(Repeatable for credit)(Slashed with MTSC 74491) Discussion of current literature or original research in liquid crystals. Participation by students, faculty and guests.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Seminar

**Contact Hours:** 1 other

**Grade Mode:** Satisfactory/Unsatisfactory

**MTSC 64495 SPECIAL TOPICS IN CHEMICAL PHYSICS 1-3 Credit Hours**

(Repeatable for credit)(Slashed with MTSC 74495) Topic varies per course offering.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 1-3 lecture

**Grade Mode:** Standard Letter

**MTSC 65006 LIQUID CRYSTAL DEVICE PROTOTYPING 2 Credit Hours**

(Slashed with MTSC 75006) Liquid crystal device prototyping; introduction to liquid crystal device manufacturing methods.

**Prerequisite:** Graduate standing.

**Schedule Type:** Laboratory, Lecture, Combined Lecture and Lab

**Contact Hours:** 1 lecture, 2 lab

**Grade Mode:** Standard Letter

**MTSC 65008 LIQUID CRYSTAL DEVICE CONSTRUCTION 1 Credit Hour**

(Slashed with MTSC 75008) Students acquire the knowledge and experience in basic techniques and procedures for the construction of liquid crystal cells. Students are prepared for successive lab courses and the capstone project based on the clean-room techniques, ITO glass handling, film deposition, surface alignment treatment and cell assembly experienced.

**Prerequisite:** Graduate standing.

**Schedule Type:** Laboratory

**Contact Hours:** 2 lab

**Grade Mode:** Standard Letter

**MTSC 65032 SCIENTIFIC COMMUNICATION 1 Credit Hour**

(Slashed with MTSC 75032) Course aims to help graduate students in STEM fields improve their skills in scientific writing and presentations. Activities include a mock panel review of scientific proposals. Students produce a final paper that could serve as the introductory chapter of a thesis or dissertation.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 1 lecture

**Grade Mode:** Standard Letter

**MTSC 65098 MASTER'S PROJECT: ENGINEERING APPLICATIONS OF LIQUID CRYSTALS 6 Credit Hours**

Course offers an opportunity for students to carry out a project that aims to develop a liquid crystal device for a particular application, experiencing the complete development process from the field analysis, idea generation, concept design, feasibility study, implementation and testing.

**Prerequisite:** MTSC 62450; and MTSC 62452; and MTSC 62460; and MTSC 62462; and MTSC 65008; and graduate standing.

**Schedule Type:** Research

**Contact Hours:** 6 other

**Grade Mode:** Standard Letter-IP

**MTSC 72241 STATISTICAL MECHANICS OF SOFT MATTER 3 Credit Hours**

(Slashed with MTSC 62241) Lectures on order, disorder and phase transitions in soft matter. Materials include magnets, gases, liquids, crystalline and amorphous solids and liquid crystals. Theoretical concepts include order parameters to describe broken symmetry, mean-field theory, Landau theory for uniform and nonuniform systems, elasticity of orientational order and topological defects.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MTSC 72242 CHARACTERIZATION OF SOFT MATTER 3 Credit Hours**

(Slashed with MTSC 62242) Course provides students with the fundamentals of the most commonly used techniques for the study and understanding of soft matter at the macroscopic and microscopic level, especially at the nanometer scale. The advancement in basic soft matter research is generally driven by the experimental techniques available and the interdisciplinary knowledge among condensed matter physicists, biologists, synthetic and physical chemists, as well as chemical and polymer engineers.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MTSC 72245 FUNDAMENTALS OF LIQUID CRYSTAL SCIENCE 4 Credit Hours**

(Slashed with MTSC 62245) Basic liquid crystals structures and their main physical properties, such as visco-elastic, electric, magnetic and optical properties, except the nature of their phase transitions. Also discussed are their interactions with surfaces and the structural defects that they can form.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 4 lecture

**Grade Mode:** Standard Letter

**MTSC 72248 LIQUID CRYSTAL OPTICS AND PHOTONICS 4 Credit Hours**

(Slashed with MTSC 62248) Optics of cholesterics, liquid crystalline photonic bandgap materials, nonlinear optics of liquid crystals; optomechanical effects in liquid crystal elastomers.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 4 lecture

**Grade Mode:** Standard Letter

**MTSC 72249 LABVIEW FOR DATA ACQUISITION AND INSTRUMENT CONTROL 1 Credit Hour**

(Slashed with MTSC 62249) Introduction to laboratory data acquisition and instrument control using LabVIEW software.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 1 lecture

**Grade Mode:** Satisfactory/Unsatisfactory

**MTSC 72335 ADVANCED LIQUID CRYSTALLINE AND POLYMERIC MATERIALS 4 Credit Hours**

(Slashed with MTSC 62335) Course introduce students to recent advances in liquid crystals and polymers with emphasis on structure-property relationships, physical and optical properties, and their applications. Liquid crystals and polymers are soft matters of two important disciplines of science and technology. They both have a similar history and are rich in physical and optical properties useful for fundamental and applied research.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Laboratory, Lecture, Combined Lecture and Lab

**Contact Hours:** 3 lecture, 2 lab

**Grade Mode:** Standard Letter

**MTSC 72450 LIQUID CRYSTAL OPTICS I: THEORY 2 Credit Hours**

(Slashed with MTSC 62450) Provides an introduction to optical phenomena with an emphasis on liquid crystals, from geometrical optics to Maxwell's equations. Basic principles are used to analyze and solve optics problems arising in liquid crystal engineering.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**MTSC 72452 LIQUID CRYSTAL OPTICS II: OPTICAL SYSTEMS 2 Credit Hours**

(Slashed with MTSC 62452) Focuses on the study of practical optical systems with an emphasis on liquid crystals. Students study the principles of optical system design starting with the understanding of basic optical components such as lenses, mirrors, filters and polarizers. Practical concepts and techniques for the implementation of optical instruments and displays are mastered through lectures and lab work.

**Prerequisite:** MTSC 72450; and doctoral standing.

**Schedule Type:** Laboratory, Lecture, Combined Lecture and Lab

**Contact Hours:** 1 lecture, 2 lab

**Grade Mode:** Standard Letter

**MTSC 72460 LIQUID CRYSTAL MATERIALS SCIENCE 2 Credit Hours**

(Slashed with MTSC 62460) Familiarizes students with the basic, underlying chemical concepts in liquid crystal science. These concepts include molecular structures and properties of liquid crystal molecules, miscibility rules and micro-segregation of chemically incompatible molecular segments, physical and electronic properties of aromatic compounds including heterocycles and fluorinated aromatics, properties of aliphatic and perfluorinated hydrocarbons, unsaturation, and chirality. Other aspects covered in later sections of this course relate to auxiliary and novel materials used in liquid crystal devices such as polymers, carbon nanomaterials, metal and semiconductor nanoparticles and photo-responsive organic materials.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**MTSC 72462 LIQUID CRYSTAL SCIENCE: PHYSICAL PROPERTIES 3 Credit Hours**

(Slashed with MTSC 62462) Basics of liquid crystal defects and their behavior in magnetic and electric fields.

**Prerequisite:** Doctoral standing.

**Pre/corequisite:** MTSC 72460.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MTSC 72640 LIQUID CRYSTAL, POLYMER AND COLLOID COMPOSITES 4 Credit Hours**

(Slashed with MTSC 62640) Interdisciplinary science of systems consisting of liquid crystal, polymer and colloid. Statistical physics of composite systems, mixing free energy, phase separation principle, phase diagrams and phase separation dynamics. States, structures and free energies of liquid crystal, polymer and colloidal systems. Polymer dispersed liquid crystals (PDLC), polymer stabilized liquid crystals (PSLC) and their applications. Laboratory experiments on composite systems and fabrication of PDLC and PSLC light shutters.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Laboratory, Lecture, Combined Lecture and Lab

**Contact Hours:** 3 lecture, 2 lab

**Grade Mode:** Standard Letter

**MTSC 72643 ELECTRO-OPTICS OF LIQUID CRYSTALS: MODELING AND DEVICE DESIGN 3 Credit Hours**

(Slashed with MTSC 62643) Apply knowledge of liquid crystals and optics to the design of liquid crystal electro-optical devices. Emphasis is on modeling of devices and the use of that modeling to optimize device characteristics. Several particular device designs are considered to familiarize students with the state of the art in electro-optical applications of liquid crystals and to prepare them to advance the art in future designs.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MTSC 72647 STRUCTURED FLUIDS 3 Credit Hours**

(Slashed with MTSC 62647) The basics of fluids having internal structures, such as long range orientational order and or one and two dimensional positional order. Such materials include thermotropic smectic, lamellar lyotropic and columnar liquid crystals, soap films, fluid foams, fluid fibers and Langmuir monolayers.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MTSC 72650 COMPUTATIONAL MATERIALS SCIENCE 3 Credit Hours**

(Slashed with MTSC 62650) Materials modeling at the classical (i.e. non-quantum) level. Monte Carlo methods; molecular dynamics simulation; mesoscale models; numerical methods; case studies.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MTSC 72651 NANOBIO TECHNOLOGY 3 Credit Hours**

(Slashed with MTSC 62651) Course presents the concepts, principles and the state-of-the-arts of nanotechnologies and their applications in biological and biomedical science and engineering. Focus is on the fundamental physical principles and engineering technologies of device miniaturization and system integration for bioapplications.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MTSC 73000 PHYSICS OF SOFT MATTER 3 Credit Hours**

(Slashed with MTSC 63000) Students learn the basics of physics of soft matter, including polymers, liquid crystals, colloids, reduced dimensionality fluids and active matter. Course provides students a coherent and deep understanding of the most important concepts and scientific results of soft matter, such as nano-, and microscopic structures, mechanical, electrical and optical properties.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MTSC 73010 LYOTROPIC LIQUID CRYSTALS 3 Credit Hours**

(Slashed with MTSC 63010) Course covers the fundamentals and the chemical aspects of different types of lyotropic liquid crystals (organic, inorganic, composites) leading to a discussion of phase diagrams and a comprehensive discussion of the characterization techniques of lyotropic liquid crystals. Focuses on some key aspects related to the use of lyotropic liquid crystals in pharmacological and medical applications such as drug delivery and the use of lyotropic liquid crystals as templates or 'reactors' for nanoscale synthesis and mesoscale manufacturing.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MTSC 73015 CHEMISTRY OF SOFT MATTER 3 Credit Hours**

(Slashed with MTSC 63015) Course familiarizes students with the basic underlying chemical concepts in soft matter science, focusing on the most important chemical building blocks in soft matter, IUPAC rules for naming them, miscibility rules and micro-segregation of chemically incompatible molecular segments, physical and electronic properties of aromatic compounds, including heterocyclic and fluorinated aromatics, properties of aliphatic and perfluorinated hydrocarbons, unsaturation, structure-property relationships and all levels of chirality (molecular to supramolecular). Other topics focus on specific types of materials explored in soft matter such as polymers, liquid crystals, carbon nanomaterials, metal and semiconductor nanoparticles and light-responsive organic materials, gels, foams and colloids.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MTSC 73020 APPLICATIONS OF SOFT MATTER 3 Credit Hours**

(Slashed with MTSC 63020) Course covers the applications of soft matter that include electro-optical, sensor and biological applications. Recent developments related to emerging applications are covered.

**Prerequisite:** MTSC 73000; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MTSC 73025 ACTIVE MATTER 2 Credit Hours**

(Slashed with MTSC 63025) The course is designed to teach the science of active matter which embraces a broad range of dynamic out-of-equilibrium systems comprised of interacting units that are capable of converting stored energy or the energy of the environment into systematic motion. Examples include colloids powered by an electric field, swimming bacteria and living liquid crystals. Theoretical models considered are Vicsek model and Toner-Tu model. The course will provide a coherent picture of the dynamic out-of-equilibrium phenomena.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter



**MTSC 73100 EMERGING DISPLAY TECHNOLOGIES 2 Credit Hours**  
(Slashed with MTSC 63100) This course focuses on the fundamentals and applications of latest display technologies in transmissive, reflective and emissive displays as well as free-space display technologies. This course is aimed for students who wish to learn more, not limited to liquid crystal devices and applications, but also wide ranges of current and future display technologies, and will intergrate among materials science, physics and engineering with display technologies ranging from direct-view, flexible, wearable and free-space displays.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**MTSC 74491 SEMINAR: LIQUID CRYSTALS 1 Credit Hour**  
(Repeatable for credit)(Slashed with MTSC 64491) Discussion of current literature or original research in liquid crystals. Participation by students, faculty and guests.

**Prerequisite:** Doctoral standing; and special approval.

**Schedule Type:** Seminar

**Contact Hours:** 1 other

**Grade Mode:** Satisfactory/Unsatisfactory

**MTSC 74495 SPECIAL TOPICS IN CHEMICAL PHYSICS 1-3 Credit Hours**

(Repeatable for credit)(Slashed with MTSC 64495) Topic varies per course offering.

**Prerequisite:** Doctoral standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 1-3 lecture

**Grade Mode:** Standard Letter

**MTSC 75006 LIQUID CRYSTAL DEVICE PROTOTYPING 2 Credit Hours**

(Slashed with MTSC 65006) Liquid crystal device prototyping; introduction to liquid crystal device manufacturing methods.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Laboratory, Lecture, Combined Lecture and Lab

**Contact Hours:** 1 lecture, 2 lab

**Grade Mode:** Standard Letter

**MTSC 75008 LIQUID CRYSTAL DEVICE CONSTRUCTION 1 Credit Hour**

(Slashed with MTSC 65008) Students acquire the knowledge and experience in basic techniques and procedures for the construction of liquid crystal cells. Students are prepared for successive lab courses and the capstone project based on the clean-room techniques, ITO glass handling, film deposition, surface alignment treatment and cell assembly experienced.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Laboratory

**Contact Hours:** 2 lab

**Grade Mode:** Standard Letter

**MTSC 75032 SCIENTIFIC COMMUNICATION 1 Credit Hour**

(Slashed with MTSC 65032) Course aims to help graduate students in STEM fields improve their skills in scientific writing and presentations. Activities include a mock panel review of scientific proposals. Students produce a final paper that could serve as the introductory chapter of a thesis or dissertation.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 1 lecture

**Grade Mode:** Standard Letter

**MTSC 80199 DISSERTATION I 15 Credit Hours**

(Repeatable for credit) Doctoral dissertation for which registration in at least two semesters is required, first of which will be semester in which dissertation work is begun, and continuing until the completion of 30 hours.

**Prerequisite:** Doctoral standing; and special approval.

**Schedule Type:** Dissertation

**Contact Hours:** 15 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**MTSC 80299 DISSERTATION II 15 Credit Hours**

(Repeatable for credit) Continuing registration required of doctoral students who have completed the initial 30 hours of dissertation and continuing until all degree requirements are met.

**Prerequisite:** MTSC 80199 and doctoral standing.

**Schedule Type:** Dissertation

**Contact Hours:** 15 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**MTSC 80498 RESEARCH 1-15 Credit Hours**

(Repeatable for credit) Research or individual investigation for doctoral student who has not yet passed candidacy exam. Credit earned may be applied toward degree.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Research

**Contact Hours:** 3-45 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

## Mathematics (MATH)

**MATH 00020 PRE-ALGEBRA 2 Credit Hours**

Course covers properties of whole numbers, fractions, decimals, percents, signed numbers and order of operations. Mental math and elementary algebraic thinking skills are emphasized. Use of calculators is not allowed. Course does not count toward graduation.

**Prerequisite:** 0-9 ALEKS math score.

**Schedule Type:** Emporium

**Contact Hours:** 2 other

**Grade Mode:** Standard Letter

**MATH 00021 BASIC ALGEBRA I 2 Credit Hours**

Course includes operations on integers, fractions, decimals and percents, and properties of real numbers. Introduction to variables, first degree equations and problem-solving with formulas. Equations and inequalities in one variable, linear equations, rate of change and slope, graphing in the cartesian plane. Course does not count toward graduation.

**Prerequisite:** Minimum 10 ALEKS math score.

**Pre/corequisite:** MATH 00020 with a minimum C grade.

**Schedule Type:** Emporium

**Contact Hours:** 2 other

**Grade Mode:** Standard Letter

**MATH 00022 BASIC ALGEBRA II 2 Credit Hours**

Introduction to functions, systems of linear equations, exponents, polynomial operations, scientific notation. Factoring polynomials, solving quadratics by factoring, radicals and rational exponents. Course does not count toward graduation.

**Prerequisite:** Minimum 25 ALEKS math score; or MATH 00021 with a minimum C grade.

**Schedule Type:** Emporium

**Contact Hours:** 2 other

**Grade Mode:** Standard Letter



**MATH 00095 SPECIAL TOPICS IN MATHEMATICS 1-4 Credit Hours**  
(Repeatable for credit) Topics in mathematics not covered in regular courses. Offered when opportunities and resources permit; the topic is announced when the course is scheduled. Course does not count toward graduation.

**Prerequisite:** None.

**Schedule Type:** Emporium

**Contact Hours:** 1-4 other

**Grade Mode:** Standard Letter

**MATH 10040 INTRODUCTORY STATISTICS PLUS (KMCR) 5 Credit Hours**

(Equivalent to MATH 10041) An introduction to statistical thinking and statistical methods with a review of basic algebra. Emphasis is on statistical literacy, conceptual understanding and active learning in the classroom. This course also provides just-in-time remediation to help students achieve the same learning outcomes as MATH 10041. No credit earned for this course if a student already earned credit for MATH 10041.

**Prerequisite:** ALEKS Math score between 25 and 34; or MATH 00021 with a minimum C grade.

**Schedule Type:** Lecture

**Contact Hours:** 5 lecture

**Grade Mode:** Standard Letter

**Attributes:** Kent Core Mathematics and Critical Reasoning, TAG Mathematics, Transfer Module Mathematics

**MATH 10041 INTRODUCTORY STATISTICS (KMCR) 4 Credit Hours**

(Equivalent to MATH 10040) An introduction to statistical thinking and statistical methods. Emphasis is on statistical literacy, conceptual understanding and active learning in the classroom. No credit earned for this course if a student already earned credit for MATH 10040.

**Prerequisite:** Minimum 22 ACT math score; or minimum 530 SAT math score; or minimum 35 ALEKS Math score; or MATH 00022 with a minimum C grade; or any higher level MATH course.

**Schedule Type:** Emporium

**Contact Hours:** 4 other

**Grade Mode:** Standard Letter

**Attributes:** Kent Core Mathematics and Critical Reasoning, Transfer Module Mathematics

**MATH 10050 QUANTITATIVE REASONING PLUS (KMCR) 5 Credit Hours**

(Equivalent to MATH 10051) In the broadest sense mathematics should provide students the needed quantitative tools, logical reasoning and problem-solving skills, and a sense that quantitative modeling can be used to describe and understand developments in many areas of daily living. Since critical thinking is the primary objective and outcome for our course, in each area of concentration (numeracy, mathematical modeling, and probability and statistics) students will need to read and glean information from the problem situation, convert the information into a usable form, perform any needed routine calculations, make or draw a conclusion, and then communicate the result via explanation using quantitative reasoning by writing coherent statements and paragraphs. This course also provides just-in-time remediation to help students achieve the same learning outcomes as MATH 10051.

**Prerequisite:** ALEKS Math score between 25 and 34; or MATH 00021 with a minimum C grade.

**Schedule Type:** Lecture

**Contact Hours:** 5 lecture

**Grade Mode:** Standard Letter

**Attributes:** Kent Core Mathematics and Critical Reasoning, TAG Mathematics, Transfer Module Mathematics

**MATH 10051 QUANTITATIVE REASONING (KMCR) 4 Credit Hours**

(Equivalent to MATH 10050) In the broadest sense, mathematics should provide students the needed quantitative tools, logical reasoning and problem solving skills, and a sense that quantitative modeling can be used to describe and understand developments in many areas of daily living. Since critical thinking is the primary objective and outcome for this course, in each area of concentration (numeracy, mathematical modeling and probability and statistics), students will read and glean information from the problem situation, convert the information into a usable form, perform any needed routine calculations, make or draw a conclusion, and then communicate the result via explanation using quantitative reasoning by writing coherent statements and paragraphs.

**Prerequisite:** Minimum 22 ACT math score; or minimum 530 SAT math score; or minimum 35 ALEKS Math score; or MATH 00022 with a minimum C grade; or any higher level MATH course.

**Schedule Type:** Lecture

**Contact Hours:** 4 lecture

**Grade Mode:** Standard Letter

**Attributes:** Kent Core Mathematics and Critical Reasoning

**MATH 10675 ALGEBRA FOR CALCULUS BOOST (KMCR) 5 Credit Hours**

(Equivalent to MATH 10775 and MATH 11010) Course includes an extensive and rich immersion into the structure of functions. Routine analysis includes discussion of domain, range, zeros, general function behavior (increasing, decreasing, extrema, etc.). Operations with functions, including addition, subtraction, multiplication, division, composition and inversion. Functions are studied as a tool to analyze rates of change in real-world scenarios. The emphasis is on linear, polynomial, exponential and rational functions, with an extensive problem-solving component. A two-week review of intermediate algebra skills is included in the course, as is extra time studying quadratic functions, absolute value functions, systems of equations and extended time on logarithms.

**Prerequisite:** Minimum 22 ACT math score; or minimum 530 SAT math score; or ALEKS math score between 35-44; or MATH 00022 with a minimum C grade.

**Schedule Type:** Lecture

**Contact Hours:** 5 lecture

**Grade Mode:** Standard Letter

**Attributes:** Kent Core Mathematics and Critical Reasoning

**MATH 10771 BASIC MATHEMATICAL CONCEPTS I PLUS (KMCR) 5 Credit Hours**

(Equivalent to MATH 14001) Course covers the development of the real-number system and its sub-systems, open sentences, numeration systems, modular arithmetic and some number theory concepts. Additional concepts covered include place value, logic, sets, algebra concepts and problem solving.

**Prerequisite:** Minimum 35 ALEKS math score; or minimum 22 ACT math score; or minimum 530 SAT math score; or MATH 00022 with a minimum C grade.

**Schedule Type:** Lecture

**Contact Hours:** 5 lecture

**Grade Mode:** Standard Letter

**Attributes:** Kent Core Mathematics and Critical Reasoning

**MATH 10772 MODELING ALGEBRA PLUS (KMCR) 5 Credit Hours**  
(Equivalent to MATH 11009) Study of algebra arising in the context of real-world applications, including linear, polynomial, exponential and logarithmic models. Includes a review of factoring and functions. Course is intended for students not planning to take calculus. No credit earned toward a degree for this course if student already earned credit for MATH 11010.

**Prerequisite:** Minimum 35 ALEKS math score; or minimum 22 ACT math score; or minimum 530 SAT math score; or MATH 00022 with a minimum C grade.

**Schedule Type:** Lecture

**Contact Hours:** 5 lecture

**Grade Mode:** Standard Letter

**Attributes:** Kent Core Mathematics and Critical Reasoning

**MATH 10775 ALGEBRA FOR CALCULUS PLUS (KMCR) 4 Credit Hours**

(Equivalent to MATH 10675 or MATH 10775 or MATH 11010) Course includes an extensive and rich immersion into the structure of functions. Routine analysis includes discussion of domain, range, zeros, general function behavior (increasing, decreasing, extrema, etc.). Operations with functions, including addition, subtraction, multiplication, division, composition and inversion. Functions are studied as a tool to analyze rates of change in real-world scenarios. The emphasis is on linear, polynomial, exponential and rational functions, with an extensive problem-solving component. Skill review is included in the course, as is time studying quadratic functions, absolute value functions, systems of equations and extended time on logarithms.

**Prerequisite:** ALEKS math score between 45 and 54; or MATH 10772 with a minimum C grade.

**Schedule Type:** Lecture

**Contact Hours:** 4 lecture

**Grade Mode:** Standard Letter

**Attributes:** Kent Core Mathematics and Critical Reasoning

**MATH 11008 EXPLORATIONS IN MODERN MATHEMATICS (KMCR) 3 Credit Hours**

Topics from various branches of mathematics will be chosen to introduce the student to the wide varieties of ways in which mathematics affects everyday life.

**Prerequisite:** Minimum 35 ALEKS math score; or minimum 22 ACT math score; or MATH 00022 or any higher MATH course with a minimum C grade.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Kent Core Mathematics and Critical Reasoning

**MATH 11009 MODELING ALGEBRA (KMCR) 4 Credit Hours**

(Equivalent to MATH 10772) Study of algebra arising in the context of real-world applications, including linear, polynomial, exponential and logarithmic models. Intended for students not planning to take calculus. No credit earned toward a degree for this course if the student already earned credit for MATH 11010.

**Prerequisite:** Minimum 45 ALEKS math score.

**Schedule Type:** Lecture

**Contact Hours:** 4 lecture

**Grade Mode:** Standard Letter

**Attributes:** Kent Core Mathematics and Critical Reasoning

**MATH 11010 ALGEBRA FOR CALCULUS (KMCR) 3 Credit Hours**

(Equivalent to MATH 10675 and MATH 10775) Course includes an extensive and rich immersion into the structure of functions. Routine analysis includes discussion of domain, range, zeros, general function behavior (increasing, decreasing, extrema, etc.). Operations with functions, including addition, subtraction, multiplication, division, composition and inversion. Functions are studied as a tool to analyze rates of change in real-world scenarios. Emphasis is on linear, polynomial, exponential and rational functions, with an extensive problem-solving component.

**Prerequisite:** Minimum 55 ALEKS math score; or MATH 10772 or MATH 11009 with a minimum B grade.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Kent Core Mathematics and Critical Reasoning, Transfer Module Mathematics

**MATH 11012 INTUITIVE CALCULUS (KMCR) 3 Credit Hours**

Course is designed to give an overview of differential and integral calculus to business and life-science majors. Course does not include trigonometric functions. No credit earned toward a degree for this course if the student already earned credit for MATH 12002.

**Prerequisite:** Minimum 67 ALEKS math score; or minimum C grade in MATH 10675 or MATH 10775 or MATH 11010.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Kent Core Mathematics and Critical Reasoning, Transfer Module Mathematics

**MATH 11022 TRIGONOMETRY (KMCR) 3 Credit Hours**

Solution of triangles, trigonometric equations and identities.

**Prerequisite:** Minimum 67 ALEKS math score; or minimum C grade in MATH 10675 or MATH 10775 or MATH 11010.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Kent Core Mathematics and Critical Reasoning, Transfer Module Mathematics

**MATH 12002 ANALYTIC GEOMETRY AND CALCULUS I (KMCR) 5 Credit Hours**

Concepts of limit, continuity and derivative, and the indefinite and definite integral for functions of one real variable. Maximization, related rates, fundamental theorem of calculus. No credit earned toward a degree for this course if the student already earned credit for MATH 12011 and MATH 12012.

**Prerequisite:** Minimum 78 ALEKS math score; or MATH 11022 with a minimum C grade.

**Schedule Type:** Lecture

**Contact Hours:** 5 lecture

**Grade Mode:** Standard Letter

**Attributes:** Kent Core Mathematics and Critical Reasoning, Transfer Module Mathematics

**MATH 12003 ANALYTIC GEOMETRY AND CALCULUS II 5 Credit Hours**

Continued study of techniques and applications of integration; trigonometric, logarithmic and exponential functions; polar coordinates; vectors; parametric equations; sequences and series.

**Prerequisite:** MATH 12002 or MATH 12012 with a minimum C grade.

**Schedule Type:** Lecture

**Contact Hours:** 5 lecture

**Grade Mode:** Standard Letter

**Attributes:** Transfer Module Mathematics

**MATH 12011 CALCULUS WITH PRECALCULUS I (KMCR) 3 Credit Hours**

Introduction to differential calculus with a review of algebra and trigonometry. Includes exponents, factoring, functions, graphs, tangent lines, limits, continuity, derivatives and related rates. No credit earned toward a degree for this course if the student already earned credit for MATH 12002.

**Prerequisite:** Minimum 67 ALEKS math score.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Kent Core Mathematics and Critical Reasoning, Transfer Module Mathematics

**MATH 12012 CALCULUS WITH PRECALCULUS II (KMCR) 3 Credit Hours**

Development of integral calculus and continued study of differential calculus. Includes curve sketching optimization fundamental theorem of calculus areas between curves, exponential and logarithmic functions. No credit earned toward a degree for this course if student already earned credit for MATH 12002.

**Prerequisite:** MATH 12011 with a minimum C grade.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Kent Core Mathematics and Critical Reasoning, Transfer Module Mathematics

**MATH 12013 BRIEF CALCULUS II 3 Credit Hours**

This is a condensed version of MATH 12003 to meet the needs of majors that do not require the full force of Math 12003. The course starts with integration by parts, approximating integrals, and applications of integrals. It follows with a brief introduction to series, parametric equations and polar coordinates, and finishes with vectors and geometry of space. No credit earned toward a degree for this course if student already earned credit for MATH 12003.

**Prerequisite:** Minimum C grade in MATH 12002 or MATH 12012 or MATH 12021.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MATH 12021 CALCULUS FOR LIFE SCIENCES 4 Credit Hours**

Differential and integral calculus using examples and problems in life sciences.

**Prerequisite:** Minimum 78 ALEKS math score; or MATH 11022 or MATH 12011 with a minimum C grade.

**Schedule Type:** Lecture

**Contact Hours:** 4 lecture

**Grade Mode:** Standard Letter

**MATH 12022 PROBABILITY AND STATISTICS FOR LIFE SCIENCES 3 Credit Hours**

Probability and statistics with applications in medical and biological sciences.

**Prerequisite:** Minimum C grade in MATH 12002 or MATH 12012 or MATH 12021.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MATH 14001 BASIC MATHEMATICAL CONCEPTS I (KMCR) 4 Credit Hours**

(Equivalent to MATH 10771) Development of the real number system and its sub-systems, open sentences, numeration systems, modular arithmetic and some number theory concepts.

**Prerequisite:** Minimum 45 ALEKS math score; or any higher level MATH course (except MATH 10041, MATH 10051 or MATH 11008).

**Schedule Type:** Lecture

**Contact Hours:** 4 lecture

**Grade Mode:** Standard Letter

**Attributes:** Kent Core Mathematics and Critical Reasoning

**MATH 14002 BASIC MATHEMATICAL CONCEPTS II (KMCR) 4 Credit Hours**

Basic concepts of probability, statistics and geometry.

**Prerequisite:** MATH 10771 or MATH 14001 with a minimum C grade.

**Schedule Type:** Lecture

**Contact Hours:** 4 lecture

**Grade Mode:** Standard Letter

**Attributes:** Kent Core Mathematics and Critical Reasoning

**MATH 19002 TECHNICAL MATHEMATICS II 4 Credit Hours**

Emphasizes advanced topics in algebra and trigonometry, analytic geometry, derivatives and integrals.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 4 lecture

**Grade Mode:** Standard Letter

**MATH 19099 FIELD EXPERIENCE IN MATHEMATICS INSTRUCTION (ELR) 1 Credit Hour**

(Repeatable for credit) Learning through tutoring. A supervised lab experience in providing explanations of mathematical concepts.

**Prerequisite:** Special approval.

**Schedule Type:** Lecture

**Contact Hours:** 1 lecture

**Grade Mode:** Standard Letter

**Attributes:** Experiential Learning Requirement

**MATH 20011 DECISION-MAKING UNDER UNCERTAINTY 3 Credit Hours**

An introductory course on applied statistics. The course provides a hands-on approach to understanding, quantification and decision-making under various forms of uncertainty. The main topics include visualization of uncertainty, probabilistic quantification of uncertainty, Bayesian and non-Bayesian ways of decision-making under uncertainty. Class activities incorporate active learning elements, including in-classroom computation with professional-grade software for statistical analysis and simulation.

**Prerequisite:** MATH 12002 with a minimum C grade.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MATH 20095 SPECIAL TOPICS IN MATHEMATICS 1-5 Credit Hours**  
(Repeatable for credit) Various special courses will be announced in the schedule of classes under this course number with different section numbers.

**Prerequisite:** Special approval.

**Schedule Type:** Lecture

**Contact Hours:** 1-5 lecture

**Grade Mode:** Standard Letter

**MATH 21001 LINEAR ALGEBRA 3 Credit Hours**

Systems of linear equations and the associated matrix operations, linear transformations, vector spaces, bases, eigenvectors.

**Prerequisite:** Minimum C grade in MATH 11012 or MATH 12002 or MATH 12012 or MATH 12021.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** TAG Mathematics

**MATH 21002 APPLIED LINEAR ALGEBRA 3 Credit Hours**

This is an introductory course in linear algebra. The goal of the course is to teach the math fundamentals of linear algebra in a way that focuses more on applications. The topics include systems of linear equations, matrix operations, vector spaces, eigenvalues and eigenvectors, singular value decompositions, and their applications.

**Prerequisite:** Minimum C grades in MATH 12002 or MATH 11012 or MATH 12012 or MATH 12021.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MATH 21092 COMPUTER PRACTICUM (ELR) 2 Credit Hours**

(Repeatable for credit) Supervised work experience in a computer installation.

**Prerequisite:** None.

**Schedule Type:** Practical Experience

**Contact Hours:** 2 other

**Grade Mode:** Standard Letter

**Attributes:** Experiential Learning Requirement

**MATH 22005 ANALYTIC GEOMETRY AND CALCULUS III 4 Credit Hours**

Study of functions of several variables, including partial derivatives and multiple integrals.

**Prerequisite:** MATH 12003 with a minimum C grade.

**Schedule Type:** Lecture

**Contact Hours:** 4 lecture

**Grade Mode:** Standard Letter

**MATH 23022 DISCRETE STRUCTURES FOR COMPUTER SCIENCE 3 Credit Hours**

(Cross-listed with CS 23022) Discrete structures for computer scientists with a focus on: mathematical reasoning, combinatorial analysis, discrete structures, algorithmic thinking, applications and modeling. Specific topics include logic, sets, functions, relations, algorithms, proof techniques, counting, graphs, trees, Boolean algebra, grammars and languages.

**Prerequisite:** Minimum 55 Compass Algebra score and either minimum 540 SAT math score or minimum 23 ACT math score; or CS 10051 and minimum C grade in MATH 11010.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MATH 30011 BASIC PROBABILITY AND STATISTICS 3 Credit Hours**

Analysis and representation of data. Controlled experiments and observations. Measurement errors. Correlation and regression. Sampling. Probability models and tests of models. Inference. This course cannot be used to meet the mathematics requirements for a BA in Mathematics or a BS in Applied Mathematics or Mathematics.

**Prerequisite:** Minimum 67 ALEKS math score; or minimum C grade in MATH 10675 or MATH 10775 or MATH 11010; or any course MATH 11012 to MATH 12022; or any course MATH 20000 to MATH 49999.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MATH 30055 MATHEMATICAL THEORY OF INTEREST 3 Credit Hours**

A calculus-based introduction to the mathematics of finance. Limited to deterministic analysis of interest rates annuities bonds and immunization. Emphasizes the mathematical theory of the subject matter.

**Prerequisite:** MATH 12003 with a minimum C grade.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MATH 31011 PROOFS IN DISCRETE MATHEMATICS 3 Credit Hours**

The study of discrete mathematical structures including sets, functions, and relations. The course includes an introduction to logical thinking with an emphasis on proof techniques. The course also emphasizes combinatorics topics such as recursion and counting.

**Prerequisite:** MATH 12002 with a minimum C grade.

**Pre/corequisite:** MATH 21001 or MATH 32051 with a minimum C grade.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MATH 32044 ORDINARY DIFFERENTIAL EQUATIONS 3 Credit Hours**

An introduction to ordinary differential equations and applications. Topics include solution methods, series solutions and singular points. Laplace transforms and linear systems. Applications include population dynamics, forced oscillations and resonance.

**Prerequisite:** MATH 21001 and MATH 22005 with a minimum C grade.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** TAG Mathematics

**MATH 32051 MATHEMATICAL METHODS IN THE PHYSICAL SCIENCES I 4 Credit Hours**

Mathematics background beyond calculus I and II for upper-division courses in the physical sciences. Topics include complex numbers and arithmetic, linear algebra, partial differentiation and multiple integrals.

**Prerequisite:** MATH 12003 with a minimum C grade.

**Schedule Type:** Lecture

**Contact Hours:** 4 lecture

**Grade Mode:** Standard Letter



**MATH 32052 MATHEMATICAL METHODS IN THE PHYSICAL SCIENCES II 4 Credit Hours**

Additional mathematics background for upper-division courses in the physical sciences. Topics include vector analysis, Fourier series and transforms ordinary differential equations and partial differential equations.

**Prerequisite:** MATH 32051 with a minimum C grade; or MATH 21001 and MATH 22005 with a minimum C grade.

**Schedule Type:** Lecture

**Contact Hours:** 4 lecture

**Grade Mode:** Standard Letter

**MATH 34001 FUNDAMENTAL CONCEPTS OF ALGEBRA 3 Credit Hours**

Professionalized course in algebra for prospective secondary teachers. Postulational development of number system of algebra; other systems, related topics, applications. This course cannot be used to meet the mathematical requirements for a BA in Mathematics or a BS in either Applied Mathematics or Mathematics. No credit earned toward a degree for this course if a student already earned credit for MATH 41001.

**Prerequisite:** MATH 12002 with a minimum C grade.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MATH 34002 FUNDAMENTAL CONCEPTS OF GEOMETRY 3 Credit Hours**

Professionalized course in geometry for secondary school teachers. Origin and development of the geometry of Euclid with modern refinements, topics, approaches. Other geometries, applications. This cannot be used to meet the mathematics requirement for a BA in Mathematics or a BS in either Applied Mathematics or Mathematics.

**Prerequisite:** MATH 12002 with a minimum C grade.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MATH 38001 HANDS-ON MATHEMATICS 3 Credit Hours**

Students take turns learning a topic and then teach that topic to the class. No text is required; the students use web resources and materials supplied by the instructor. Many of the topics have a hands-on component. Some examples are two- and three-dimensional tiling problems, the Towers of Hanoi and other problems with an inductive solution, and 'magic tricks' with a basis in algebra, parity or modular arithmetic.

**Prerequisite:** MATH 12003 with a minimum C grade.

**Schedule Type:** Seminar

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MATH 40011 PROBABILITY THEORY AND APPLICATIONS 3 Credit Hours**

(Slashed with MATH 50011) Permutations and combinations, discrete and continuous distributions, random variables, conditional probabilities, Baye's formula, mathematical expectation, law of large numbers, normal approximations, basic limit theorems.

**Prerequisite:** MATH 22005 or MATH 32051 with a minimum C grade.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MATH 40012 THEORY OF STATISTICS 3 Credit Hours**

(Slashed with MATH 50012) Sample spaces, continuous distributions, sampling distributions, point and interval estimation, hypothesis testing, types of error, level and power of tests, sequential and nonparametric methods.

**Prerequisite:** MATH 40011 with a minimum C grade.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MATH 40015 APPLIED STATISTICS 3 Credit Hours**

(Slashed with MATH 50015) Course is based on classical linear regression techniques with an emphasis on real data using the principles of sound data analysis. Close attention is given to issues of interpretation, diagnostics, outliers and influential points, goodness of fit and model selection. Topics include simple and multiple linear regression, transformation and modifications of covariates and responses, design matrices, variable selection and logistic regression. Students with statistics courses from other disciplines should consult with the Department of Mathematical Sciences for possible prerequisite overrides.

**Prerequisite:** (MATH 21001 with a minimum C grade OR MATH 21002 with a minimum C grade) AND (MATH 12022 with a minimum B grade OR MATH 20011 with a minimum C grade OR MATH 30011 with a minimum B grade OR MATH 40012 with a minimum C grade).

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MATH 40024 COMPUTATIONAL STATISTICS 3 Credit Hours**

(Slashed with MATH 50024) This course is about the use of computational tools to manage, explore, summarize, and visualize data, as well as the computational underpinnings of fitting statistical models. It uses mostly the statistical computation language R, but also other languages like Python and Matlab. It also covers: simulation and random number generation, computationally intensive methods like the bootstrap and permutation tests, Expectation-Maximization and related algorithms, and dimensionality reduction via matrix decomposition.

Students with statistics courses from other disciplines should consult with the Department of Mathematical Sciences for possible prerequisite overrides.

**Prerequisite:** (MATH 21001 with a minimum C grade OR MATH 21002 with a minimum C grade) AND (MATH 12022 with a minimum B grade OR MATH 20011 with a minimum C grade OR MATH 30011 with a minimum B grade OR MATH 40012 with a minimum C grade).

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MATH 40028 STATISTICAL LEARNING 3 Credit Hours**

(Slashed with MATH 50028) This course is about the statistical foundations of modern machine learning techniques. The main focus is classification and prediction, using regression-based, tree-based, and kernel-based methods. Specific methods include logistic regression, classification and regression trees, random forests, and support vector machines. The course also includes an introduction to unsupervised and semi-supervised learning.

**Prerequisite:** MATH 40015 and MATH 40024 with a minimum C grade.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter



**MATH 40051 TOPICS IN PROBABILITY THEORY AND STOCHASTIC PROCESSES 3 Credit Hours**

(Slashed with MATH 50051) Topics from conditional expectations, Markov chains, Markov processes, Brownian motion and Martingales and their applications to stochastic calculus.

**Prerequisite:** MATH 40011 with a minimum C grade.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MATH 40055 ACTUARIAL MATHEMATICS I (ELR) (WIC) 4 Credit Hours**

(Slashed with MATH 50055) Topics from survival models, stochastic analysis of annuities and life insurance and casualty models. .

**Prerequisite:** MATH 30055 and MATH 40011 with a minimum C grade.

**Schedule Type:** Lecture

**Contact Hours:** 4 lecture

**Grade Mode:** Standard Letter

**Attributes:** Experiential Learning Requirement, Writing Intensive Course

**MATH 40056 ACTUARIAL MATHEMATICS II 4 Credit Hours**

(Slashed with MATH 50056) Benefit premiums, benefit reserves and their analysis, decrement models, joint survivorship, risk models.

**Prerequisite:** MATH 40055 with a minimum C grade.

**Schedule Type:** Lecture

**Contact Hours:** 4 lecture

**Grade Mode:** Standard Letter

**MATH 40059 STOCHASTIC ACTUARIAL MODELS 3 Credit Hours**

(Slashed with MATH 50059) Topics from investment risk, mean variance analysis, CAPM, financial derivatives, binomial pricing model, stochastic calculus, Black-Scholes pricing model, and Greeks.

**Prerequisite:** Minimum C grade in MATH 30055 and MATH 40011.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MATH 40093 VARIABLE TITLE WORKSHOP IN MATHEMATICS 1-6 Credit Hours**

(Repeatable for credit) Studies special topics in mathematics. Not acceptable for credit toward a major or minor in math without approval of student's adviser.

**Prerequisite:** Special approval.

**Schedule Type:** Workshop

**Contact Hours:** 1-6 other

**Grade Mode:** Satisfactory/Unsatisfactory

**MATH 41001 MODERN ALGEBRA I (ELR) (WIC) 3 Credit Hours**

(Slashed with MATH 51001) Basic properties of groups, subgroups, factor groups. Basic properties of rings, integral domains and homomorphisms.

**Prerequisite:** MATH 22005 or MATH 32051 with a minimum C grade; and MATH 31011 with a minimum C grade.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Experiential Learning Requirement, Writing Intensive Course

**MATH 41002 MODERN ALGEBRA II (ELR) (WIC) 3 Credit Hours**

(Slashed with MATH 51002) A continuation of MATH 41001, emphasizing properties of rings, their ideals, polynomial ring extensions, fields, finite degree extensions, roots of polynomials, constructability.

**Prerequisite:** Minimum C grade in MATH 41001.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Experiential Learning Requirement, Writing Intensive Course

**MATH 41021 THEORY OF MATRICES 3 Credit Hours**

(Slashed with MATH 51021) A rigorous study of the topics introduced in matrix algebra. Topics included are vector space preliminaries, canonical forms of matrices, diagonalizability criteria.

**Prerequisite:** MATH 21001 and MATH 22005 with a minimum C grade.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MATH 41038 INTERMEDIATE LOGIC 3 Credit Hours**

(Slashed with MATH 51038; Cross-listed with CS 41038 and PHIL 41038 and PHIL 51038) A detailed, systematic study of symbolic logic for philosophy majors, mathematics majors, computer science majors, and anyone else interested in advanced study in logic. The aim of the course is twofold: first, to develop a facility in understanding and using symbolic logic for various purposes, and second, to understand and appreciate symbolic logic as an area of study in itself. Topics include the distinction between syntactic, object-level proofs and semantic, meta-level proofs, the distinction between axiomatic systems and natural deduction systems of object-level proofs, various systems of modal logic, and some non-classical logics.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MATH 41045 METALOGIC 3 Credit Hours**

(Slashed with MATH 51045; Cross-listed with CS 41045 and CS 51045 and PHIL 41045 and PHIL 51045) A detailed, systematic study of metalogic for philosophy majors, mathematics majors, computer science majors, and anyone else interested in advanced study in logic. Topics include the soundness and completeness of the propositional and predicate calculi, the decidability of propositional calculus, the undecidability of predicate calculus, Gödel's incompleteness proof for languages capable of expressing arithmetic, the co-extensionality of the set of general recursive functions, abacus computable functions, and Turing computable functions, and the philosophical motivations for the ChurchTuring Thesis that all computable functions are Turing computable.

**Prerequisite:** PHIL 41038.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MATH 42001 ANALYSIS I (ELR) (WIC) 3 Credit Hours**

(Slashed with MATH 52001) Topics include basic structure of the real numbers, Cauchy sequences, convergence, completeness of the real numbers, continuity, differentiation and Riemann integration.

**Prerequisite:** MATH 22005 or MATH 32051 with a minimum C grade; and MATH 31011 with a minimum C grade.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Experiential Learning Requirement, Writing Intensive Course

**MATH 42002 ANALYSIS II (ELR) (WIC) 3 Credit Hours**

(Slashed with MATH 52002) Topics include further development of integration theory, infinite series, uniform convergence, several variable calculus and metric spaces.

**Prerequisite:** MATH 42001 with a minimum C grade.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Experiential Learning Requirement, Writing Intensive Course

**MATH 42011 MATHEMATICAL OPTIMIZATION 3 Credit Hours**

(Slashed with MATH 52011) Analytic and numerical techniques for location of extreme points of functions and calculus of variations. Both constrained and unconstrained problems are considered.

**Prerequisite:** Minimum C grade in MATH 21001 and MATH 22005 or MATH 32051.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MATH 42021 GRAPH THEORY AND COMBINATORICS 3 Credit Hours**

(Slashed with MATH 52021) Fundamentals and applications of combinatorial mathematics. Topics include traversability, colorability, networks, inclusion and exclusion, matching and designs.

**Prerequisite:** MATH 12003 and MATH 21001 with a minimum C grade.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MATH 42024 NUMBERS AND GAMES 3 Credit Hours**

(Slashed with MATH 52024) The study of partisan and impartial combinatorial games; games as numbers; Grundy-Sprague theory.

**Prerequisite:** MATH 21001 with a minimum C grade.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MATH 42031 MATHEMATICAL MODELS AND DYNAMICAL SYSTEMS 3 Credit Hours**

(Slashed with MATH 52031) Formulation and analysis of mathematical models for a variety of phenomena. Mathematical methods from optimization dynamical systems and probability are developed and applied. Modern software tools are utilized.

**Prerequisite:** MATH 32044 or MATH 32052 with a minimum C grade.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MATH 42039 MODELING PROJECTS (ELR) (WIC) 3 Credit Hours**

(Slashed with MATH 52039) Individual and small-group projects concerned with the formulation and analysis of mathematical models in a variety of areas. Written and oral reports are required.

**Prerequisite:** MATH 42031 with a minimum C grade.

**Schedule Type:** Seminar

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter-IP

**Attributes:** Experiential Learning Requirement, Writing Intensive Course

**MATH 42041 ADVANCED CALCULUS 3 Credit Hours**

(Slashed with MATH 52041) The calculus and applications of scalar and vector functions of several variables. Vector differential and integral calculus. Applications to field theories, electricity and magnetism and fluid flow.

**Prerequisite:** MATH 21001 with a minimum C grade; and MATH 22005 or MATH 32051.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MATH 42045 PARTIAL DIFFERENTIAL EQUATIONS 3 Credit Hours**

(Slashed with MATH 52045) An introduction to Fourier series, Fourier transforms and partial differential equations. Wave, heat and potential equations of mathematical physics. Additional topics include Green's functions and the Method of Characteristics for wave equations.

**Prerequisite:** MATH 32044 or MATH 32052 with a minimum C grade.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MATH 42048 COMPLEX VARIABLES 3 Credit Hours**

(Slashed with MATH 52048) Algebra of complex numbers, analytic functions, mappings, Cauchy integral theory, residue theory and applications.

**Prerequisite:** MATH 22005 or MATH 32051 with a minimum C grade.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MATH 42201 NUMERICAL COMPUTING I 3 Credit Hours**

(Cross-listed with CS 42201 and CS 52201; slashed with MATH 52201).

An introduction to numerical methods and software for solving many common scientific computing problems. Linear systems, least-squares data fitting, nonlinear equations and systems, and optimization problems.

**Prerequisite:** Minimum C grade in all the following MATH 12003;

and MATH 21001 or MATH 32051; and CS 13001 or (CS 13011 and CS 13012).

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MATH 42202 NUMERICAL COMPUTING II 3 Credit Hours**

(Cross-listed with CS 42202 and CS 52202) (Slashed with MATH 52202)

A continuation of MATH 42201. Topics include interpolation, numerical differentiation and integration, and numerical solution of ordinary differential equations.

**Prerequisite:** MATH 42201 with a minimum C grade; and MATH 32044 or MATH 32052 with a minimum C grade.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MATH 45011 DIFFERENTIAL GEOMETRY 3 Credit Hours**

(Slashed with MATH 55011) Analytic and metric differential geometry of curves and surfaces.

**Prerequisite:** MATH 22005 with a minimum C grade.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MATH 45021 EUCLIDEAN GEOMETRY 3 Credit Hours**  
 (Slashed with MATH 55021) Geometry of Euclid extended to advanced topics of the triangle, quadrilaterals and circles: cross-ratio, groups, constructions, geometric generalizations; inversion.  
**Prerequisite:** MATH 21001 with a minimum C grade.  
**Schedule Type:** Lecture  
**Contact Hours:** 3 lecture  
**Grade Mode:** Standard Letter

**MATH 45022 LINEAR GEOMETRY 3 Credit Hours**  
 (Slashed with MATH 55022) Using transformations as a tool to study geometry and to differentiate between different kinds of geometry. Linear algebra methods applied to geometry.  
**Prerequisite:** MATH 21001 with a minimum C grade.  
**Schedule Type:** Lecture  
**Contact Hours:** 3 lecture  
**Grade Mode:** Standard Letter

**MATH 46001 ELEMENTARY TOPOLOGY 3 Credit Hours**  
 (Slashed with MATH 56001) Metric spaces, introduction to topological spaces, separation axioms.  
**Prerequisite:** MATH 22005 with a minimum C grade.  
**Schedule Type:** Lecture  
**Contact Hours:** 3 lecture  
**Grade Mode:** Standard Letter

**MATH 47011 THEORY OF NUMBERS 3 Credit Hours**  
 (Slashed with MATH 57011) Divisibility properties of the integers, prime numbers, congruences, quadratic reciprocity, Diophantine equations, number theoretic functions, simple continued fractions, rational approximations.  
**Prerequisite:** MATH 12003 with a minimum C grade.  
**Schedule Type:** Lecture  
**Contact Hours:** 3 lecture  
**Grade Mode:** Standard Letter

**MATH 47021 HISTORY OF MATHEMATICS 3 Credit Hours**  
 (Slashed with MATH 57021) Survey from Babylonian and Egyptian mathematics to 20th century mathematics with emphasis on the development of algebra, geometry, calculus, number theory.  
**Prerequisite:** MATH 23022 or higher with a minimum C grade.  
**Schedule Type:** Lecture  
**Contact Hours:** 3 lecture  
**Grade Mode:** Standard Letter

**MATH 49995 SELECTED TOPICS IN MATHEMATICS AND ITS APPLICATIONS 1-4 Credit Hours**  
 (Repeatable for credit) Various special courses will be announced in the schedule of classes under this course number with different section numbers.  
**Prerequisite:** Special approval.  
**Schedule Type:** Lecture  
**Contact Hours:** 1-4 lecture  
**Grade Mode:** Standard Letter

**MATH 49996 INDIVIDUAL STUDY 1-4 Credit Hours**  
 (Repeatable for credit) Individual investigation in mathematics.  
**Prerequisite:** Special approval.  
**Schedule Type:** Individual Investigation  
**Contact Hours:** 1-4 other  
**Grade Mode:** Standard Letter

**MATH 49998 RESEARCH (ELR) 1-15 Credit Hours**  
 (Repeatable for credit) Research in mathematics.  
**Prerequisite:** Special approval.  
**Schedule Type:** Research  
**Contact Hours:** 1-15 other  
**Grade Mode:** Satisfactory/Unsatisfactory-IP  
**Attributes:** Experiential Learning Requirement

**MATH 50011 PROBABILITY THEORY AND APPLICATIONS 3 Credit Hours**  
 (Slashed with MATH 40011) Permutations and combinations, discrete and continuous distributions, random variables, conditional probabilities, Baye's formula, mathematical expectation, law of large numbers, normal approximations, basic limit theorems.  
**Prerequisite:** Graduate standing.  
**Schedule Type:** Lecture  
**Contact Hours:** 3 lecture  
**Grade Mode:** Standard Letter

**MATH 50012 THEORY OF STATISTICS 3 Credit Hours**  
 (Slashed with MATH 40012) Sample spaces, continuous distributions, sampling distributions, point and interval estimation, hypothesis testing, types of error, level and power of tests, sequential and nonparametric methods.  
**Prerequisite:** MATH 40011 or MATH 50011; and graduate standing.  
**Schedule Type:** Lecture  
**Contact Hours:** 3 lecture  
**Grade Mode:** Standard Letter

**MATH 50015 APPLIED STATISTICS 3 Credit Hours**  
 (Slashed with MATH 40015) Course is based on classical linear regression techniques with an emphasis on real data using the principles of sound data analysis. Close attention is given to issues of interpretation, diagnostics, outliers and influential points, goodness of fit and model selection. Topics include simple and multiple linear regression, transformation and modifications of covariates and responses, design matrices, variable selection and logistic regression.  
**Prerequisite:** Applied mathematics or pure mathematics major; and graduate standing.  
**Schedule Type:** Lecture  
**Contact Hours:** 3 lecture  
**Grade Mode:** Standard Letter

**MATH 50024 COMPUTATIONAL STATISTICS 3 Credit Hours**  
 (Slashed with MATH 40024) This course is about the use of computational tools to manage, explore, summarize, and visualize data, as well as the computational underpinnings of fitting statistical models. It uses mostly the statistical computation language R, but also other languages like Python and Matlab. It also covers: simulation and random number generation, computationally intensive methods like the bootstrap and permutation tests, Expectation-Maximization and related algorithms, and dimensionality reduction via matrix decomposition.  
**Prerequisite:** Applied mathematics or pure mathematics major; and graduate standing.  
**Schedule Type:** Lecture  
**Contact Hours:** 3 lecture  
**Grade Mode:** Standard Letter

**MATH 50028 STATISTICAL LEARNING 3 Credit Hours**

(Slashed with MATH 40028) This course is about the statistical foundations of modern machine learning techniques. The main focus is classification and prediction, using regression-based, tree-based, and kernel-based methods. Specific methods include logistic regression, classification and regression trees, random forests, and support vector machines. The course also includes an introduction to unsupervised and semi-supervised learning.

**Prerequisite:** MATH 40015 or 50015 and MATH 40024 or 50024; and applied mathematics or pure mathematics major; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MATH 50051 TOPICS IN PROBABILITY THEORY AND STOCHASTIC PROCESSES 3 Credit Hours**

(Slashed with MATH 40051) Topics from conditional expectations, Markov chains, Markov processes, Brownian Motion and Martingales and their applications to stochastic calculus.

**Prerequisite:** MATH 50011; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MATH 50055 ACTUARIAL MATHEMATICS I 4 Credit Hours**

(Slashed with MATH 40055) Topics from survival models, stochastic analysis of annuities and life insurance and casualty models.

**Prerequisite:** MATH 30055 and MATH 50011; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 4 lecture

**Grade Mode:** Standard Letter

**MATH 50056 ACTUARIAL MATHEMATICS II 4 Credit Hours**

(Slashed with MATH 40056) Benefit premiums, benefit reserves and their analysis; decrement models, joint survivorship, risk models.

**Prerequisite:** MATH 50055; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 4 lecture

**Grade Mode:** Standard Letter

**MATH 50059 STOCHASTIC ACTUARIAL MODELS 3 Credit Hours**

(Slashed with MATH 40059) Topics from investment risk, mean variance analysis, CAPM, financial derivatives, binomial pricing model, stochastic calculus, Black-Scholes pricing model, and Greeks.

**Prerequisite:** MATH 40011 or 50011 and Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MATH 51001 MODERN ALGEBRA I 3 Credit Hours**

(Slashed with MATH 41001) Basic properties of groups, subgroups, factor groups. Basic properties of rings, integral domains and homomorphisms.

**Prerequisite:** MATH 21001 and MATH 22005; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MATH 51002 MODERN ALGEBRA II 3 Credit Hours**

(Slashed with MATH 41002) A continuation of MATH 51001, emphasizing properties of rings, their ideals, polynomial ring extensions, fields, finite degree extensions, roots of polynomials, constructibility.

**Prerequisite:** MATH 41001 or MATH 51001; and applied mathematics or pure mathematics major; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MATH 51021 THEORY OF MATRICES 3 Credit Hours**

(Slashed with MATH 41021) A rigorous study of the topics introduced in matrix algebra. Topics included are: canonical forms of matrices, diagonalizability criteria.

**Prerequisite:** MATH 21001 and MATH 22005; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MATH 51038 INTERMEDIATE LOGIC 3 Credit Hours**

(Cross-listed with CS 41038 and PHIL 41038 and PHIL 51038) (Slashed with MATH 41038) A detailed, systematic study of symbolic logic for philosophy majors, mathematics majors, computer science majors, and anyone else interested in advanced study in logic. The aim of the course is twofold: first, to develop a facility in understanding and using symbolic logic for various purposes, and second, to understand and appreciate symbolic logic as an area of study in itself. Topics include the distinction between syntactic, object-level proofs and semantic, meta-level proofs, the distinction between axiomatic systems and natural deduction systems of object-level proofs, various systems of modal logic and some non-classical logics.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MATH 51045 METALOGIC 3 Credit Hours**

(Cross-listed with CS 41045 and CS 51045 and PHIL 41045 and PHIL 51045) (Slashed with MATH 41045) A detailed, systematic study of metalogic for philosophy majors, mathematics majors, computer science majors, and anyone else interested in advanced study in logic. Topics include the soundness and completeness of the propositional and predicate calculi, the decidability of propositional calculus, the undecidability of predicate calculus, Gödel's incompleteness proof for languages capable of expressing arithmetic, the co-extensionality of the set of general recursive functions, abacus computable functions, and Turing computable functions, and the philosophical motivations for the Church-Turing Thesis that all computable functions are Turing computable.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MATH 52001 ANALYSIS I 3 Credit Hours**

(Slashed with MATH 42001) Topics include basic structure of the real numbers, Cauchy sequences, convergence, completeness of the real numbers, continuity, differentiation and Riemann integration.

**Prerequisite:** Applied mathematics or pure mathematics major; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter



**MATH 52002 ANALYSIS II 3 Credit Hours**

(Slashed with MATH 42002) Topics include further development of integration theory infinite series, uniform convergence, several variable calculus and metric spaces.

**Prerequisite:** MATH 42001 or MATH 52001; and applied mathematics or pure mathematics major; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MATH 52011 MATHEMATICAL OPTIMIZATION 3 Credit Hours**

(Slashed with MATH 42011) Analytical and numerical techniques for location of extreme points of functions and calculus of variations. Both constrained and unconstrained problems are considered.

**Prerequisite:** MATH 21001 and MATH 22005; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MATH 52021 GRAPH THEORY AND COMBINATORICS 3 Credit Hours**

(MATH 42021) Fundamentals and applications of combinatorial mathematics. Topics include transversability, colorability, networks, inclusion and exclusion, matching and designs.

**Prerequisite:** MATH 12003 and MATH 21001; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MATH 52024 NUMBERS AND GAMES 3 Credit Hours**

(Slashed with MATH 42024) The study of partisan and impartial combinatorial games; games as numbers; Grundy-Sprague theory.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MATH 52031 MATHEMATICAL MODELS AND DYNAMICAL SYSTEMS 3 Credit Hours**

(Slashed with MATH 42031) Formulation and analysis of mathematical models for a variety of phenomena. Mathematical methods from optimization, dynamical systems and probability are developed and applied. Modern software tools are utilized.

**Prerequisite:** MATH 32044; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MATH 52039 MODELING PROJECTS 3 Credit Hours**

(Slashed with MATH 42039) Individual and small-group projects concerned with the formulation and analysis of mathematical models in a variety of areas. Written and oral reports required.

**Prerequisite:** MATH 52031 with a minimum C grade; and graduate standing.

**Schedule Type:** Seminar

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**MATH 52041 ADVANCED CALCULUS 3 Credit Hours**

(Slashed with MATH 42041) The calculus and applications of scalar and vector functions of several variables. Vector differential and integral calculus. Applications to field theories, electricity and magnetism and fluid flow.

**Prerequisite:** MATH 21001 and MATH 22005.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MATH 52045 PARTIAL DIFFERENTIAL EQUATIONS 3 Credit Hours**

(Slashed with MATH 42045) Introduction to Fourier series, Fourier transforms and partial differential equations. Wave, heat and potential equations of mathematical physics. Additional topics include Green's functions and the Method of Characteristics for wave equations.

**Prerequisite:** Applied mathematics or pure mathematics major; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MATH 52048 COMPLEX VARIABLES 3 Credit Hours**

(Slashed with MATH 42048) Algebra of complex numbers, analytic functions, mappings, Cauchy integral theory, residue theory and applications.

**Prerequisite:** Applied mathematics or pure mathematics major; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MATH 52201 NUMERICAL COMPUTING I 3 Credit Hours**

(Cross-listed with CS 42201 and CS 52201) (Slashed with MATH 42201) An introduction to numerical methods and software for solving many common scientific computing problems. Linear systems, least-square data fitting, nonlinear equations and systems and optimization problems.

**Prerequisite:** Applied mathematics or pure mathematics major; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MATH 52202 NUMERICAL COMPUTING II 3 Credit Hours**

(Cross-listed with CS 42202 and CS 52202) (Slashed with MATH 42202) A continuation of MATH 52201. Topics include interpolation, numerical differentiation and integration, and numerical solution of ordinary differential equations.

**Prerequisite:** MATH 42201 or 52201; and applied mathematics or pure mathematics major; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MATH 55011 DIFFERENTIAL GEOMETRY 3 Credit Hours**

(Slashed with MATH 45011) Analytic and metric differential geometry of curves and surfaces.

**Prerequisite:** MATH 22005; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter



**MATH 55021 EUCLIDEAN GEOMETRY 3 Credit Hours**

(Slashed with MATH 45021) Geometry of Euclid extended to advanced topics of the triangle, quadrilaterals and circles: crossratio, groups, constructions, geometric generalizations; inversion.

**Prerequisite:** MATH 21001; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MATH 55022 LINEAR GEOMETRY 3 Credit Hours**

(Slashed with MATH 45022) Use of transformations as a tool to study geometry and to differentiate between different kinds of geometry. Linear algebra methods applied to geometry.

**Prerequisite:** MATH 21001; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MATH 56001 ELEMENTARY TOPOLOGY 3 Credit Hours**

(Slashed with MATH 46001) Metric spaces, introduction to topological spaces, separation axioms.

**Prerequisite:** MATH 22005; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MATH 57011 THEORY OF NUMBERS 3 Credit Hours**

(Slashed with MATH 47011) Divisibility properties of the integers, prime numbers, congruencies, quadratic reciprocity, Diophantine equations, number theoretic functions, simple continued fractions, rational approximations.

**Prerequisite:** MATH 12003; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MATH 57021 HISTORY OF MATHEMATICS 3 Credit Hours**

(Slashed with MATH 47021) Survey from Babylonian and Egyptian mathematics to 20th-century mathematics with emphasis on the development of algebra, geometry, calculus, number theory.

**Prerequisite:** One course MATH 23022 or higher; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MATH 57091 SELECTED TOPICS IN MATHEMATICS AND ITS APPLICATIONS 1-3 Credit Hours**

(Repeatable for credit) Various special courses will be announced in the schedule of classes under this course number with different section numbers.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Seminar

**Contact Hours:** 1-3 other

**Grade Mode:** Standard Letter

**MATH 59893 VARIABLE TITLE WORKSHOP IN MATHEMATICS 1-6 Credit Hours**

(Repeatable for credit) Studies in special topics in pure and applied mathematics.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Workshop

**Contact Hours:** 1-6 other

**Grade Mode:** Satisfactory/Unsatisfactory

**MATH 60051 PROBABILITY I 4 Credit Hours**

(Slashed with MATH 70051) Distribution functions, measure theory, random variables, expectation, independence, convergence, concepts, law of large numbers.

**Prerequisite:** MATH 40011 or MATH 42002 or MATH 50011 or MATH 52002; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 4 lecture

**Grade Mode:** Standard Letter

**MATH 60052 PROBABILITY II 3 Credit Hours**

(Slashed with MATH 70052) Characteristic functions, the central limit problem, conditional expectations, Martingale theory, Brownian motion.

**Prerequisite:** MATH 60051; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MATH 60061 MATHEMATICAL STATISTICS I 4 Credit Hours**

(Slashed with MATH 70061) Statistics, distributions of statistics. Sampling distributions. Decision spaces and loss functions. Sufficiency and completeness. Estimation theory. Rao Blackwell and the Cramer Rao theorems.

**Prerequisite:** MATH 42002 or MATH 52002; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 4 lecture

**Grade Mode:** Standard Letter

**MATH 60062 MATHEMATICAL STATISTICS II 3 Credit Hours**

(Slashed with MATH 70062) Tests of statistical hypothesis. Neyman Pearson Lemma. Exponential families and invariance. Sequential tests. Non-parametric procedures.

**Prerequisite:** MATH 60061; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MATH 60070 FINANCIAL MATHEMATICS 3 Credit Hours**

(Slashed with MATH 70070) Topics from replication of trading strategies, arbitrage, completeness, Martingale representation theorem, fundamental theorem of finance, stochastic differential equations, Black and Scholes formula of option pricing.

**Prerequisite:** MATH 50051; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MATH 60091 SEMINAR IN STATISTICS AND PROBABILITY 1-3 Credit Hours**

(Repeatable for credit) Seminar on current research in statistics and probability.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Seminar

**Contact Hours:** 1-3 other

**Grade Mode:** Standard Letter

**MATH 60093 VARIABLE TITLE WORKSHOP IN MATHEMATICS 1-3 Credit Hours**

(Repeatable for credit) Studies of special topics in mathematics. Not acceptable for credit toward a graduate degree in mathematics without approval of the student's adviser.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Workshop

**Contact Hours:** 1-3 other

**Grade Mode:** Satisfactory/Unsatisfactory

**MATH 60094 COLLEGE TEACHING OF MATHEMATICS 1 Credit Hour**

(Repeatable for credit) Techniques and problems in the teaching of college-level mathematics. Student presentations of mathematical papers and colloquia will be included.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 1 lecture

**Grade Mode:** Standard Letter

**MATH 61051 ABSTRACT ALGEBRA I 4 Credit Hours**

(Slashed with MATH 71051) Advanced topics in group theory including Sylow Theorems, finite Abelian groups, divisible groups and related concepts. Includes one hour problem session each week.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 4 lecture

**Grade Mode:** Standard Letter

**MATH 61052 ABSTRACT ALGEBRA II 3 Credit Hours**

(Slashed with MATH 71052) Advanced topics, commutative ring theory and field theory, including polynomial rings, unique factorization domains, matrix rings, Galois theory.

**Prerequisite:** MATH 61051; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MATH 61091 SEMINAR IN ALGEBRA 1-3 Credit Hours**

(Repeatable for credit) Seminar on current research in algebra.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Seminar

**Contact Hours:** 1-3 other

**Grade Mode:** Satisfactory/Unsatisfactory

**MATH 62041 METHODS OF APPLIED MATHEMATICS I 3 Credit Hours**

(Slashed with MATH 72041) Analysis and applications of ordinary and partial differential equations and related topics. Dimensional analysis (Buckingham Pi Theorem). Perturbation methods (singular perturbations, matched asymptotic expansions, WKB approximation). Variational methods (Euler-Lagrange equations).

**Prerequisite:** MATH 51021 and MATH 52041 and MATH 52045 and MATH 52048; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MATH 62042 METHODS OF APPLIED MATHEMATICS II 3 Credit Hours**

(Slashed with MATH 72042) Continuation of MATH 62041. Integral equations and Green's functions (Fredholm alternative, compact operators, distributions, weak solutions). Wave phenomena (dispersion, KdV equation). Stability and bifurcation (linearized stability analysis, turning points, Hopf bifurcation).

**Prerequisite:** MATH 62041; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MATH 62051 FUNCTIONS OF A REAL VARIABLE I 4 Credit Hours**

(Slashed with MATH 72051) Introduction to modern concepts of real analysis, including metric spaces, measure and integration theory.

**Prerequisite:** MATH 42002 or MATH 52002; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 4 lecture

**Grade Mode:** Standard Letter

**MATH 62052 FUNCTIONS OF A REAL VARIABLE II 3 Credit Hours**

(Slashed with MATH 72052) A continuation of MATH 62051. Included are basic topics in functional analysis and Hilbert space theory.

**Prerequisite:** MATH 62051; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MATH 62151 FUNCTIONS OF A COMPLEX VARIABLE I 4 Credit Hours**

(Slashed with MATH 72151) Topological properties of the complex plane; analytic, entire, meromorphic functions; analytic continuation; conformal mappings; Picard's Theorem; Riemann surfaces.

**Prerequisite:** MATH 52002; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 4 lecture

**Grade Mode:** Standard Letter

**MATH 62152 FUNCTIONS OF A COMPLEX VARIABLE II 3 Credit Hours**

(Slashed with MATH 72152) Topological properties of the complex plane; analytic, entire, meromorphic functions; analytic continuation; conformal mappings; Picard's Theorem; Riemann surfaces.

**Prerequisite:** MATH 62151; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MATH 62203 COMPUTATIONAL FINANCE 3 Credit Hours**

(Slashed with MATH 72203) Basic numerical methods, (numerical linear algebra, nonlinear equations, curve fitting, ODEs, integration, Monte-Carlo methods), numerical solution of PDEs (stability, convergence, Black-Scholes, American options, SDEs) probabilistic methods.

**Prerequisite:** MATH 22005 and MATH 21001 and MATH 32044; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MATH 62251 NUMERICAL ANALYSIS I 4 Credit Hours**

(Slashed with MATH 72251) Floating point computation, rounding error analysis, conditioning, interpolation (polynomial, trigonometric, spline). Numerical quadrature (Newton-Cotes, Gauss), extrapolation, Romberg integration.

**Prerequisite:** MATH 42002 or MATH 52002; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 4 lecture

**Grade Mode:** Standard Letter

**MATH 62252 NUMERICAL ANALYSIS II 3 Credit Hours**

(Slashed with MATH 72252) Numerical solution of linear systems of equations (LU factorization, error analysis). Least squares, orthogonalization methods. Algebraic eigenvalue problems, QR algorithm, singular value decomposition.

**Prerequisite:** MATH 41021 or MATH 51021; and MATH 62251 or MATH 72251; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MATH 62261 NUMERICAL SOLUTION OF ORDINARY DIFFERENTIAL EQUATIONS 3 Credit Hours**

(Slashed with MATH 72261) Discretization methods for ordinary differential equations and systems. Initial value and boundary value problems. Numerical implementation software and analysis.

**Prerequisite:** MATH 32044; and MATH 42202 or MATH 52202; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MATH 62262 NUMERICAL SOLUTION OF PARTIAL DIFFERENTIAL EQUATIONS 3 Credit Hours**

(Slashed with MATH 72262) Derivation and analysis of discrete methods (finite differences, finite elements) for the numerical solution of elliptic, hyperbolic and parabolic partial differential equations.

**Prerequisite:** MATH 42045 or MATH 52045; and MATH 42202 or MATH 52202; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MATH 62263 NUMERICAL SOLUTION OF LARGE SPARSE LINEAR SYSTEMS 3 Credit Hours**

(Slashed with MATH 72263) (Cross-listed with CS 62263 and CS 72263) Construction and analysis of iterative methods for large systems of linear algebraic equations. Jacobi, Gauss-Seidel, SOR. Polynomial acceleration methods, conjugate gradients. Multi-grid methods.

**Prerequisite:** MATH 41021 or MATH 51021; and MATH 42202 or MATH 52202; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MATH 62264 NUMERICAL SOLUTION OF NONLINEAR SYSTEMS 3 Credit Hours**

(Cross-listed with CS 62264 and CS 72264) (Slashed with MATH 72264) Construction and analysis of numerical methods for systems of nonlinear algebraic equations and optimization problems. Numerical implementation and software.

**Prerequisite:** MATH 42041 or MATH 52041; and MATH 42202 or MATH 52202; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MATH 62291 SEMINAR IN NUMERICAL ANALYSIS 1-3 Credit Hours**

(Repeatable for credit) Seminar on current research in numerical analysis.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Seminar

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**MATH 62391 SEMINAR IN MEASURE THEORY 1-3 Credit Hours**

(Repeatable for credit) Seminar on current research in measure theory.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Seminar

**Contact Hours:** 1-3 other

**Grade Mode:** Standard Letter

**MATH 62491 SEMINAR IN NONLINEAR ANALYSIS 1-3 Credit Hours**

(Repeatable for credit) Seminar on current research in nonlinear analysis.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Seminar

**Contact Hours:** 1-3 other

**Grade Mode:** Standard Letter

**MATH 64091 SEMINAR IN MATHEMATICS EDUCATION 3 Credit Hours**

(Repeatable for credit) Studies in geometry, algebra, mathematics for junior and senior high school. Mathematics content professionalized for teachers.

**Prerequisite:** MATH 34001; and graduate standing.

**Schedule Type:** Seminar

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**MATH 66051 INTRODUCTION TO TOPOLOGY I 4 Credit Hours**

(Slashed with MATH 76051) Set theory, topological spaces, continuity, product spaces, quotient spaces, separation axioms, compactness and metrizable.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MATH 66052 INTRODUCTION TO TOPOLOGY II 3 Credit Hours**

(Slashed with MATH 76052) Geometric topology, including connectedness, continua, homotopy, the plane and 2 manifolds.

**Prerequisite:** MATH 76051; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MATH 67091 SEMINAR IN NUMBER THEORY 1-3 Credit Hours**

(Repeatable for credit) (Slashed with MATH 77091) Seminar on current research in number theory.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Seminar

**Contact Hours:** 1-3 other

**Grade Mode:** Standard Letter

**MATH 67098 RESEARCH 1-15 Credit Hours**

(Repeatable for credit) Research or individual investigation. Credits are applied toward degree requirements with approval if letter grade of 'S' is given.

**Prerequisite:** Graduate standing.

**Schedule Type:** Research

**Contact Hours:** 1-15 other

**Grade Mode:** Standard Letter

**MATH 67199 THESIS I 2-6 Credit Hours**

Thesis student must register for a total of 6 hours, 2 to 6 hours in a single semester distributed over several semesters if desired.

**Prerequisite:** Graduate standing.

**Schedule Type:** Masters Thesis

**Contact Hours:** 2-6 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**MATH 67299 THESIS II 2 Credit Hours**

Thesis students must continue registration each semester until all degree requirements are met.

**Prerequisite:** MATH 67199; and graduate standing.

**Schedule Type:** Masters Thesis

**Contact Hours:** 2 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**MATH 70051 PROBABILITY I 4 Credit Hours**

(Slashed with MATH 60051) Distribution functions, measure theory, random variables, expectation, independence, convergence, concepts, law of large numbers.

**Prerequisite:** MATH 40011 or MATH 50011; or MATH 42002 or MATH 52002; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 4 lecture

**Grade Mode:** Standard Letter

**MATH 70052 PROBABILITY II 3 Credit Hours**

(Slashed with MATH 60052) Characteristic functions, the central limit problem, conditional expectations, Martingale theory, Brownian motion.

**Prerequisite:** MATH 60051 or MATH 70051; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MATH 70061 MATHEMATICAL STATISTICS I 4 Credit Hours**

(Slashed with MATH 60061) Statistics, distributions of statistics. Sampling distributions. Decision spaces and loss functions. Sufficiency and completeness. Estimation theory. Rao Blackwell and the Cramer Rao theorems.

**Prerequisite:** MATH 42002 or MATH 52002.

**Schedule Type:** Lecture

**Contact Hours:** 4 lecture

**Grade Mode:** Standard Letter

**MATH 70062 MATHEMATICAL STATISTICS II 3 Credit Hours**

(Slashed with MATH 60062) Tests of statistical hypothesis. Neyman Pearson Lemma. Exponential families and invariance. Sequential tests. Non parametric procedures.

**Prerequisite:** MATH 60061 or MATH 70061; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MATH 70070 FINANCIAL MATHEMATICS 3 Credit Hours**

(Slashed with MATH 60070) Topics from replication of trading strategies, arbitrage completeness, Martingale presentation theorem, fundamental theorem of finance, stochastic differential equations, Black and Scholes formula of option pricing.

**Prerequisite:** MATH 50051; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MATH 70091 SEMINAR IN STATISTICS AND PROBABILITY 1-3 Credit Hours**

(Repeatable for credit) Seminar on current research in statistics and probability.

**Prerequisite:** Doctoral standing; and special approval.

**Schedule Type:** Seminar

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**MATH 70094 COLLEGE TEACHING OF MATHEMATICS 1 Credit Hour**

(Repeatable for credit) Techniques and problems in the teaching of college-level mathematics. Student presentations of mathematical papers and colloquia will be included.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 1 lecture

**Grade Mode:** Standard Letter

**MATH 70095 SELECTED TOPICS IN STATISTICS AND PROBABILITY 1-3 Credit Hours**

(Repeatable for credit) Topics vary with each offering and complement topics covered in MATH 70051, MATH 70052, MATH 70061 and MATH 70062.

**Prerequisite:** Doctoral standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 1-3 lecture

**Grade Mode:** Standard Letter

**MATH 71001 STRUCTURE OF RINGS AND ALGEBRAS I 3 Credit Hours**

Advanced topics in ring theory, including Artinian rings, Noetherian rings, advanced commutative ring theory.

**Prerequisite:** Doctoral standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MATH 71002 STRUCTURE OF RINGS AND ALGEBRAS II 3 Credit Hours**

Advanced topics in ring theory including an introduction to homological algebra. Includes Dedekind domains, regular rings, torsion theory.

**Prerequisite:** MATH 71001; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MATH 71011 ADVANCED GROUP THEORY 3 Credit Hours**

Advanced topics in group theory. Topics include permutation arguments, coprime actions, transfer theorems, nonsimplicity criteria. Properties of families of groups: solvable,  $p$  solvable, nilpotent,  $p$  groups.

**Prerequisite:** MATH 61051 or MATH 71051; and MATH 61052 or MATH 71052; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MATH 71012 CHARACTERS OF FINITE GROUPS 3 Credit Hours**

Development of characters of finite groups, their properties, orthogonality relations, integrality conditions. Applications include Burnside's  $p$ - $q$  theorem and existence of Frobenius kernels in Frobenius groups.

**Prerequisite:** MATH 61051 or MATH 71051; and MATH 61052 or MATH 71052; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MATH 71051 ABSTRACT ALGEBRA I 4 Credit Hours**

(Slashed with MATH 61051) Advanced topics in group theory, including Sylow theorems, finite Abelian groups, divisible groups and related concepts. Includes one-hour problem session each week.

**Prerequisite:** Doctoral standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 4 lecture

**Grade Mode:** Standard Letter



**MATH 71052 ABSTRACT ALGEBRA II 3 Credit Hours**

(Slashed with MATH 61052) Advanced topics, commutative ring theory and field theory, including polynomial rings, unique factorization, domains, matrix rings, Galois theory.

**Prerequisite:** MATH 61051 or MATH 71051; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MATH 71091 SEMINAR IN ALGEBRA 1-3 Credit Hours**

(Repeatable for credit) (Slashed with MATH 61091) Seminar on current research in algebra.

**Prerequisite:** Doctoral standing; and special approval.

**Schedule Type:** Seminar

**Contact Hours:** 1-3 other

**Grade Mode:** Satisfactory/Unsatisfactory

**MATH 71095 SELECTED TOPICS IN ALGEBRA 1-3 Credit Hours**

(Repeatable for credit) Topics vary with each offering and complement topics covered in MATH 71002, MATH 71051 and MATH 71052.

**Prerequisite:** Doctoral standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 1-3 lecture

**Grade Mode:** Standard Letter

**MATH 72001 FUNCTIONAL ANALYSIS I 3 Credit Hours**

A study of principles of linear analysis in the setting of normed linear spaces and topological vector spaces.

**Prerequisite:** MATH 72052; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MATH 72002 FUNCTIONAL ANALYSIS II 3 Credit Hours**

A study of principles of linear analysis in the setting of normed linear spaces and topological vector spaces.

**Prerequisite:** MATH 72001; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MATH 72041 METHODS OF APPLIED MATHEMATICS I 3 Credit Hours**

(Slashed with MATH 62041) Analysis and applications of ordinary and partial differential equations and related topics. Dimensional analysis (Buckingham Pi Theorem). Perturbation methods (singular perturbations, matched asymptotic expansions, WKB approximation). Variational methods (Euler-Lagrange equations).

**Prerequisite:** MATH 51021 and MATH 52041 and MATH 52045 and MATH 52048; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MATH 72042 METHODS OF APPLIED MATHEMATICS II 3 Credit Hours**

(Slashed with MATH 62042) Continuation of MATH 72041. Integral equations and Green's functions (Fredholm alternative, compact operators, distributions, weak solutions). Wave phenomena (dispersion, KdV equation). Stability and bifurcation (linearized stability analysis, turning points, Hopf bifurcation).

**Prerequisite:** MATH 62041 or MATH 72041; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MATH 72051 FUNCTIONS OF A REAL VARIABLE I 4 Credit Hours**

(Slashed with MATH 62051) Introduction to modern concepts of real analysis including metric spaces, measure and integration theory.

**Prerequisite:** MATH 42002 or MATH 52002; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 4 lecture

**Grade Mode:** Standard Letter

**MATH 72052 FUNCTIONS OF A REAL VARIABLE II 3 Credit Hours**

(Slashed with MATH 62052). A continuation of MATH 72051. Included are basic topics in functional analysis and Hilbert space theory.

**Prerequisite:** MATH 62051 or MATH 72051; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MATH 72095 SELECTED TOPICS IN REAL ANALYSIS 1-3 Credit Hours**

(Repeatable for credit) Topics vary with each offering and complement topics covered in MATH 72002, MATH 72051 and MATH 72052.

**Prerequisite:** Doctoral standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 1-3 lecture

**Grade Mode:** Standard Letter

**MATH 72151 FUNCTIONS OF A COMPLEX VARIABLE I 4 Credit Hours**

(Slashed with MATH 62151) Topological properties of the complex plane; analytic, entire, meromorphic functions; analytic continuation; conformal mappings; Picard's Theorem; Riemann surfaces.

**Prerequisite:** MATH 52002; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 4 lecture

**Grade Mode:** Standard Letter

**MATH 72152 FUNCTIONS OF A COMPLEX VARIABLE II 3 Credit Hours**

(Slashed with MATH 62152) Topological properties of the complex plane; analytic, entire, meromorphic functions; analytic continuation; conformal mappings; Picard's theorem; Riemann surfaces.

**Prerequisite:** MATH 72151; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MATH 72195 SELECTED TOPICS IN COMPLEX ANALYSIS 1-3 Credit Hours**

(Repeatable for credit) Topics vary with each offering and complement topics covered in MATH 72151 and MATH 72152.

**Prerequisite:** Doctoral standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 1-3 lecture

**Grade Mode:** Standard Letter

**MATH 72203 COMPUTATIONAL FINANCE 3 Credit Hours**

(Slashed with MATH 62203) Basic numerical methods, (numerical linear algebra, nonlinear equations, curve fitting, ODEs, integration, Monte-Carlo methods) numerical solution of PDEs (stability, convergence, Black-Scholes, American options, SDEs) probabilistic methods.

**Prerequisite:** MATH 22005 and MATH 21001 and MATH 32044; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter



**MATH 72251 NUMERICAL ANALYSIS I 4 Credit Hours**

(Slashed with MATH 62251) Floating point computation, rounding error analysis, conditioning, interpolation (polynomial, trigonometric spline). Numerical quadrature (Newton-Cotes, Gauss), extrapolation, Romberg integration.

**Prerequisite:** MATH 42002 or MATH 52002; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 4 lecture

**Grade Mode:** Standard Letter

**MATH 72252 NUMERICAL ANALYSIS II 3 Credit Hours**

(Slashed with MATH 62252) Numerical solution of linear systems of equations (LU factorization, error analysis). Least squares, orthogonalization methods. Algebraic eigenvalue problems, QR algorithm, singular value decomposition.

**Prerequisite:** MATH 41021 or MATH 51021; and MATH 62251 or MATH 72251; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MATH 72261 NUMERICAL SOLUTION OF ORDINARY DIFFERENTIAL EQUATIONS 3 Credit Hours**

(Slashed with MATH 62261) Discretization methods for ordinary differential equations and systems. Initial value and boundary value problems. Numerical implementation software and analysis.

**Prerequisite:** MATH 32044; and MATH 42202 or MATH 52202; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MATH 72262 NUMERICAL SOLUTION OF PARTIAL DIFFERENTIAL EQUATIONS 3 Credit Hours**

(Slashed with MATH 62262) Derivation and analysis of discrete methods (finite differences, finite elements) for the numerical solution of elliptic, hyperbolic and parabolic partial differential equations.

**Prerequisite:** MATH 42045 or MATH 52045; and MATH 42202 or MATH 52202; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MATH 72263 NUMERICAL SOLUTION OF LARGE SPARSE LINEAR SYSTEMS 3 Credit Hours**

(Slashed with MATH 62263) (Cross-listed with CS 62263 and CS 72263) Construction and analysis of iterative methods for large systems of linear algebraic equations. Jacobi, Gauss-Seidel, SOR. Polynomial acceleration methods, conjugate gradients. Multi-grid methods.

**Prerequisite:** MATH 41021 or MATH 51021; and MATH 42202 or MATH 52202; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MATH 72264 NUMERICAL SOLUTION OF NONLINEAR SYSTEMS 3 Credit Hours**

(Slashed with MATH 62264) (Cross-listed with CS 62264 and CS 72264) Construction and analysis of numerical methods for systems of nonlinear algebraic equations and optimization problems. Numerical implementation and software.

**Prerequisite:** MATH 42041 or MATH 52041; and MATH 42202 or MATH 52202; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MATH 72291 SEMINAR IN NUMERICAL ANALYSIS 1-3 Credit Hours**

(Repeatable for credit) Seminar on current research in numerical analysis.

**Prerequisite:** Doctoral standing; and special approval.

**Schedule Type:** Seminar

**Contact Hours:** 1-3 other

**Grade Mode:** Standard Letter

**MATH 72295 SELECTED TOPICS IN NUMERICAL ANALYSIS 1-3 Credit Hours**

(Repeatable for credit) Topics vary with each offering and complement topics covered in MATH 72251 and MATH 72252.

**Prerequisite:** Doctoral standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 1-3 lecture

**Grade Mode:** Standard Letter

**MATH 72391 SEMINAR IN MEASURE THEORY 1-3 Credit Hours**

(Repeatable for credit) Seminar on current research in measure theory.

**Prerequisite:** Doctoral standing; and special approval.

**Schedule Type:** Seminar

**Contact Hours:** 1-3 other

**Grade Mode:** Standard Letter

**MATH 72491 SEMINAR IN NONLINEAR ANALYSIS 1-3 Credit Hours**

(Repeatable for credit) Seminar on current research in nonlinear analysis.

**Prerequisite:** Doctoral standing; and special approval.

**Schedule Type:** Seminar

**Contact Hours:** 1-3 other

**Grade Mode:** Standard Letter

**MATH 76051 INTRODUCTION TO TOPOLOGY I 4 Credit Hours**

(Slashed with MATH 66051) Set theory, topological spaces, continuity, product spaces, quotient spaces separation axioms, compactness and metrizability.

**Prerequisite:** Doctoral standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 4 lecture

**Grade Mode:** Standard Letter

**MATH 76052 INTRODUCTION TO TOPOLOGY II 3 Credit Hours**

Geometric topology, including connectedness, continua, homotopy, the plane and 2 manifolds.

**Prerequisite:** MATH 66051 or MATH 76051; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MATH 76095 SELECTED TOPICS IN TOPOLOGY 1-3 Credit Hours**

(Repeatable for credit) Topics vary with each offering and complement topics covered in MATH 76051 and MATH 76052.

**Prerequisite:** Doctoral standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 1-3 lecture

**Grade Mode:** Standard Letter

**MATH 77011 ALGEBRAIC NUMBER THEORY 3 Credit Hours**

Number fields and Dedekind domains; conjugates, norm and trace, discriminant, integral bases; arithmetic or quadratic and cyclotomic number fields; theory of ideals and class group; Dirichlet's theorem on units.

**Prerequisite:** MATH 57011; and MATH 61052 or MATH 71052; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MATH 77012 ANALYTIC NUMBER THEORY 3 Credit Hours**

Multiplicative functions and summatory functions, Riemann's Zeta function and the prime number theorem, L-functions and Dirichlet's theorem on primes in arithmetic progressions, asymptotic formula for partitions.

**Prerequisite:** MATH 57011 and MATH 62151 or MATH 72151.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MATH 77091 SEMINAR IN NUMBER THEORY 1-3 Credit Hours**

(Repeatable for credit) (Slashed with MATH 67091) Seminar on current research in number theory.

**Prerequisite:** Doctoral standing; and special approval.

**Schedule Type:** Seminar

**Contact Hours:** 1-3 other

**Grade Mode:** Standard Letter

**MATH 77095 SELECTED TOPICS IN MATHEMATICS 1-3 Credit Hours**

(Repeatable for credit) Course topic varies with each offering.

**Prerequisite:** Special approval.

**Schedule Type:** Lecture

**Contact Hours:** 1-3 lecture

**Grade Mode:** Standard Letter

**MATH 77098 RESEARCH I 1-15 Credit Hours**

(Repeatable for credit) Research or individual investigation. Credits are applied toward degree requirements with approval if letter grade of 'S' is given.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Research

**Contact Hours:** 1-15 other

**Grade Mode:** Standard Letter

**MATH 77195 SELECTED TOPICS IN NUMBER THEORY 1-3 Credit Hours**

(Repeatable for credit) Content varies with each offering and complements topics covered in MATH 77011 and MATH 77012.

**Prerequisite:** Doctoral standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 1-3 lecture

**Grade Mode:** Standard Letter

**MATH 77198 RESEARCH II 1-15 Credit Hours**

(Repeatable for credit) Research or individual investigation. Credits are applied toward degree requirements with approval if letter grade of 'S' is given.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Research

**Contact Hours:** 1-15 other

**Grade Mode:** Satisfactory/Unsatisfactory

**MATH 87098 RESEARCH 1-15 Credit Hours**

(Repeatable for credit) Research or individual investigation for doctoral students who have not yet passed their candidacy examinations. Credits earned may be applied toward degree if department approves.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Research

**Contact Hours:** 1-15 other

**Grade Mode:** Standard Letter

**MATH 87199 DISSERTATION I 15 Credit Hours**

(Repeatable for credit) Doctoral dissertation, for which registration in at least two semesters is required first of which will be semester in which dissertation work is begun and continuing until the completion of 30 hours.

**Prerequisite:** Admission to doctoral candidacy; and doctoral standing.

**Schedule Type:** Dissertation

**Contact Hours:** 15 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**MATH 87299 DISSERTATION II 15 Credit Hours**

(Repeatable for credit) Continuing registration required of doctoral students who have completed the initial 30 hours of dissertation and continuing until all degree requirements are met.

**Prerequisite:** MATH 87199; and doctoral standing.

**Schedule Type:** Dissertation

**Contact Hours:** 15 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

## Mechanical Engineering and Related Technology (MERT)

**MERT 12000 ENGINEERING DRAWING 3 Credit Hours**

Engineering drawing principles and techniques: orthographic projection, sketching, sections, auxiliary views, dimensioning and conventional practices.

**Prerequisite:** None.

**Schedule Type:** Laboratory, Lecture, Combined Lecture and Lab

**Contact Hours:** 2 lecture, 2 lab

**Grade Mode:** Standard Letter

**MERT 12001 COMPUTER-AIDED DESIGN 3 Credit Hours**

Introduces 3D modeling techniques to design and draft mechanical components and assemblies.

**Prerequisite:** Minimum C grade in MERT 12000.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 2 lecture, 2 lab

**Grade Mode:** Standard Letter

**Attributes:** CTAG Mechanical Engineering Technology, TAG Engineering Technology

**MERT 12004 MANUFACTURING PROCESSES 3 Credit Hours**

Introduces students to the various manufacturing processes such as extrusion, molding, forging, casting, stamping, piercing, joining and finishing. Investigates the various ways parts are made from the vast array of materials available.

**Prerequisite:** None.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 2 lecture, 2 lab

**Grade Mode:** Standard Letter

**Attributes:** CTAG Mechanical Engineering Technology, TAG Engineering Technology

**MERT 12005 PROPERTIES OF MATERIALS 3 Credit Hours**

Covers the chemical and physical properties of engineering materials such as metals (ferrous and non-ferrous), polymers, ceramics and composites. Students learn the mechanical and physical properties of materials, and the effects that manufacturing processes have on the material's properties.

**Prerequisite:** None.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 2 lecture, 2 lab

**Grade Mode:** Standard Letter

**Attributes:** TAG Engineering Technology

**MERT 21096 INDIVIDUAL INVESTIGATION IN MECHANICAL ENGINEERING TECHNOLOGY 1-4 Credit Hours**

(Repeatable for credit) Independent in depth research of a mechanical engineering technology topic supervised and coordinated by an engineering technology faculty member.

**Prerequisite:** Permission.

**Schedule Type:** Individual Investigation

**Contact Hours:** 1-4 other

**Grade Mode:** Standard Letter

**MERT 22003 COMPUTER-AIDED TOOL DESIGN 3 Credit Hours**

Tool design practices and procedures including materials, commercial standards, cutting tools, drill jigs, fixtures, dies and gauges using computer-aided design.

**Prerequisite:** MERT 12001.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MERT 22005 STATICS 3 Credit Hours**

Basic vector mechanics, calculation of reactions from applied forces, drawing free body diagrams, working with equations of equilibrium, analysis of simple structures, calculating mass properties and forces due to friction.

**Prerequisite:** None.

**Corequisite:** MATH 11022.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** TAG Engineering Technology

**MERT 22007 STRENGTH OF MATERIALS 3 Credit Hours**

Covers taking the stresses induced into members due to applied loading, and coupled with mass properties of the sections, designing members to safely carry the loads. Types of stresses considered are tensile, compressive, shear, bending, torsional and combined.

**Prerequisite:** MERT 22005.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** TAG Engineering Technology

**MERT 22012 FLUID POWER 3 Credit Hours**

Fluid properties, kinematics of fluid flow, momentum, viscosity, conservation of energy in fluid flow, industrial hydraulics and gas laws.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** TAG Engineering Technology

**MERT 22095 SPECIAL TOPICS IN MECHANICAL ENGINEERING TECHNOLOGY 1-3 Credit Hours**

(Repeatable for credit) Special topics in mechanical engineering technology.

**Prerequisite:** Permission.

**Schedule Type:** Lecture

**Contact Hours:** 1-3 lecture

**Grade Mode:** Standard Letter

**MERT 32004 MACHINE DESIGN 3 Credit Hours**

This course provides the concepts, procedures, data, and decision analysis techniques necessary to design machine elements commonly found in mechanical devices and systems.

**Prerequisite:** MERT 12001 and MERT 22007.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MERT 34002 ADVANCED SOLID MODELING 3 Credit Hours**

Advance parametric solid modeling using advanced software (CREO) to create and analyze solid models. Includes model creation using advance features, introduction to FEA simulation, and manufacturing simulations.

**Prerequisite:** MERT 12001.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MERT 42000 THERMODYNAMICS FOR ENGINEERING TECHNOLOGY 3 Credit Hours**

Includes the study of the first and second laws of thermodynamics with a detailed study of various types of heat engines. Additional topics include principles of heat transfer and energy management.

**Prerequisite:** PHY 13001 and PHY 13002 or PHY 13011 and PHY 13012.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MERT 43001 DYNAMICS FOR ENGINEERING TECHNOLOGY 3 Credit Hours**

Kinematics and kinetics of particles; Newton's laws; energy and momentum methods; system of particles; kinematics and kinetics of planar motions of rigid bodies; plane motion of rigid bodies; mechanical vibrations.

**Prerequisite:** PHY 13002 or PHY 13012.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

## Middle Childhood Education (MCED)

**MCED 20000 LEARNING AND EXPERIENCE IN MIDDLE CHILDHOOD EDUCATION 3 Credit Hours**

This course introduces Middle Childhood Education (MCED) teacher candidates to the cultural, community, social, emotional, cognitive, physical and moral development of early adolescents. It offers MCED candidates the opportunity to immerse themselves in a grades 4-9 clinical experience while exploring the experiences of early adolescence.

**Prerequisite:** CULT 29535.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter-IP

**MCED 30001 TEACHING MATHEMATICS IN MIDDLE CHILDHOOD I 3  
Credit Hours**

Examine issues and trends in mathematics and mathematics education. Theories of the teaching and learning of mathematics will be addressed within the context of problem solving, communications, reasoning and connections with other disciplines.

**Prerequisite:** EPSY 29525; and MATH 14001 and MATH 14002; and admission to advanced study.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MCED 30002 INTEGRATED SOCIAL STUDIES AND SCIENCE IN MIDDLE  
CHILDHOOD 3 Credit Hours**

Introductory methods course integrating social studies and science. Emphasis on principles of teaching and learning as applied to teaching to social issues and problems appropriate for middle childhood students.

**Prerequisite:** Admission to advanced study.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MCED 31000 TEACHING AND LEARNING IN MIDDLE CHILDHOOD 3  
Credit Hours**

This course emphasizes theories of learning and teaching and their application to teaching in middle childhood classrooms with a diversity of learners. Major class topics include lesson planning, teaching strategies, assessment, classroom management, and effective classroom instructions. In a concurrent clinical field experience, teacher candidates will apply teaching methods in intermediate-middle school classrooms. Students are required to complete Bureau of Criminal Investigation and Identification (BCII) and Federal Bureau of Investigation (FBI) background checks and submit the results to authorized personnel at their assigned school before the first day of the semester in which student teaching internship will take place.

**Prerequisite:** Admission to advanced study; and middle childhood education major.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter-IP

**MCED 40000 TEACHING AND LEARNING IN MIDDLE CHILDHOOD 2  
Credit Hours**

This course is the third of the four required seminars in middle childhood. Emphasis on theories of learning and classroom management and their application to teaching in classrooms with diverse learners.

**Prerequisite:** HDFS 24013; and admission to advanced study.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**MCED 40001 TEACHING MATHEMATICS IN MIDDLE CHILDHOOD II 3  
Credit Hours**

To develop knowledge of the theories, materials and methods used to teach mathematics in the contemporary classroom for grades 4-9 and develop skill in their use.

**Prerequisite:** MCED 30001; and admission to advanced study.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MCED 40002 TEACHING SCIENCE IN THE MIDDLE CHILDHOOD II 3  
Credit Hours**

This course is designed to provide pre-service teachers with meaningful and practical learning experiences that will prepare them to create effective science learning environments for grade 4-9 students. This course includes 40 field clinical hours. Students are required to complete Bureau of Criminal Investigation and Identification (BCII) and Federal Bureau of Investigation (FBI) background checks and submit the results to authorized personnel at their assigned school-agency before the first day of the semester in which clinical hours will take place.

**Prerequisite:** MCED 30002; and admission to advanced study.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MCED 40003 TEACHING SOCIAL STUDIES IN MIDDLE CHILDHOOD II  
3 Credit Hours**

Advanced methods course. Examines the purpose of citizenship education and understanding the role of history and the social sciences. Applying the principles of powerful teaching. Includes a major field experience at the student teaching site. Students are required to complete Bureau of Criminal Investigation and Identification (BCII) and Federal Bureau of Investigation (FBI) background checks and submit the results to authorized personnel at their assigned school/agency before the first day of the semester in which student teaching/ internship will take place.

**Prerequisite:** MCED 30002; and admission to advanced study.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MCED 40005 EFFECTIVE USE OF PHONICS IN READING 3 Credit  
Hours**

The influence of theoretical perspectives on word identification instruction, an examination of the role of phonics in reading and writing strategies for effective phonics instruction and assessment.

**Prerequisite:** Admission to advanced study.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MCED 40006 READING AND WRITING IN MIDDLE CHILDHOOD (WIC)  
6 Credit Hours**

Understanding of literacy learning in the middle childhood (classrooms grades 4-9) with emphasis on the development of reading and writing processes, strategies for text learning, literacy in electronic environments, authentic assessment and teaching children who struggle as readers.

**Prerequisite:** Admission to advanced study.

**Schedule Type:** Lecture

**Contact Hours:** 6 lecture

**Grade Mode:** Standard Letter

**Attributes:** Writing Intensive Course

**MCED 40007 TEACHING READING WITH LITERATURE IN MIDDLE  
CHILDHOOD 3 Credit Hours**

The study of the teaching of reading with literature with middle childhood students within an integrated language arts approach in a comprehensive literature program.

**Prerequisite:** MCED 40006; and admission to advanced study.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter



**MCED 40045 TEACHING MATHEMATICS IN THE INTERMEDIATE YEARS, GRADES 4-5 3 Credit Hours**

To develop knowledge of the theories, materials and methods used to teach mathematics in the contemporary classroom for grades 4-5 and develop skill in their use.

**Prerequisite:** ECED 40147 with a minimum grade of C.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MCED 41000 CURRICULUM AND ORGANIZATION IN MIDDLE CHILDHOOD 3 Credit Hours**

This course is designed to enhance knowledge, skills, and dispositions about curriculum history and organization of middle level schools (grades 4-9) that is developmentally responsive to early adolescents, and promotes student achievement and equity. Additionally, this course is also designed to extend knowledge, skills, techniques, and professional dispositions as related to middle school students' experiences, and differentiate curriculum and assessment for diverse learners. Students are required to complete Bureau of Criminal Investigation and Identification (BCII) and Federal Bureau of Investigation (FBI) background checks and submit the results to authorized personnel at their assigned school before the first day of the semester in which student teaching internship will take place.

**Prerequisite:** Admission to advanced study; and MCED 31000; and middle childhood education major.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter-IP

**MCED 42392 STUDENT TEACHING IN MIDDLE CHILDHOOD (ELR) 9 Credit Hours**

(Slashed with MCED 52392) Full-time student teaching for sixteen weeks in two selected concentrations (mathematics, science, language arts, social studies) and reading in grades 4-5 or grades 6-7-8. Students are required to complete Bureau of Criminal Investigation and Identification (BCII) and Federal Bureau of Investigation (FBI) background checks and submit the results to authorized personnel at their assigned school-agency before the first day of the semester in which student teaching internship will take place.

**Prerequisite:** Admission to advanced study; and Official valid certification of Child Safety Training, approved Basic Life Support and ALICE Training must be presented to the campus office of clinical experience or designated faculty/staff at Regional campuses as prerequisite for student teaching; and MCED 41000 and MCED 40007.

**Corequisite:** MCED 49525.

**Schedule Type:** Practical Experience

**Contact Hours:** 27 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**Attributes:** Experiential Learning Requirement

**MCED 46645 CRITICAL INQUIRY AND INTEGRATION: SCIENCE AND SOCIAL STUDIES, GRADE 4 3 Credit Hours**

Introduces students to fourth grade content using an interdisciplinary, inquiry approach to teaching and learning in science and social studies.

**Prerequisite:** Special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MCED 47745 CRITICAL INQUIRY AND INTEGRATION: SCIENCE AND SOCIAL STUDIES, GRADE 5 3 Credit Hours**

Engages students in the use and development of pedagogical content knowledge for teaching grade 5 using an interdisciplinary, inquiry approach to teaching and learning in science and social studies.

**Prerequisite:** Special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MCED 49525 INQUIRY INTO PROFESSIONAL PRACTICE:MIDDLE CHILDHOOD 3 Credit Hours**

A seminar linked to student teaching with an emphasis on action research as professional development; completion of professional portfolios; professional ethics; and legal, medical and ethical issues in teaching.

**Prerequisite:** MCED 41000 and MCED 40007.

**Corequisite:** MCED 42392.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MCED 50002 TEACHING SCIENCE IN MIDDLE CHILDHOOD II 3 Credit Hours**

(Slashed with MCED 40002) This course is designed to provide pre-service teachers with meaningful and practical learning experiences that will prepare them to create effective science learning environments for grade 4-9 students. This course includes 40 field clinical hours. Students are required to complete Bureau of Criminal Investigation and Identification (BCII) and Federal Bureau of Investigation (FBI) background checks and submit the results to authorized personnel at their assigned school-agency before the first day of the semester in which clinical hours will take place.

**Prerequisite:** MCED 30002; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MCED 50003 TEACHING SOCIAL STUDIES IN MIDDLE CHILDHOOD II 3 Credit Hours**

Advanced methods course. Examines the purpose of citizenship education and understanding the role of history and the social sciences. Applying the principles of powerful teaching. Includes a major field experience at the student teaching site. Students are required to complete Bureau of Criminal Investigation and Identification (BCII) and Federal Bureau of Investigation (FBI) background checks and submit the results to authorized personnel at their assigned school/agency before the first day of the semester in which student teaching/internship will take place.

**Prerequisite:** MCED 30002; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MCED 50005 EFFECTIVE USE OF PHONICS IN READING 3 Credit Hours**

The influence of theoretical perspectives on word identification instruction, an examination of the role of phonics in reading and writing, strategies for effective phonics instruction and assessment.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter



**MCED 50006 READING AND WRITING IN MIDDLE CHILDHOOD 6 Credit Hours**

Understanding of literacy learning in the middle childhood (classrooms grades 4-9) with emphasis on the development of reading and writing processes, strategies for text learning, literacy in electronic environments, authentic assessment and teaching children who struggle as readers.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 6 lecture

**Grade Mode:** Standard Letter

**MCED 50007 TEACHING READING WITH LITERATURE IN MIDDLE CHILDHOOD 3 Credit Hours**

The study of the teaching of reading with literature with middle childhood students within an integrated language arts approach in a comprehensive literature program.

**Prerequisite:** MCED 50006; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MCED 50045 TEACHING MATHEMATICS IN THE INTERMEDIATE YEARS, GRADES 4-5 3 Credit Hours**

To develop knowledge of the theories, materials and methods used to teach mathematics in the contemporary classroom for grades 4-5 and develop skill in their use.

**Prerequisite:** ECED 40147 with a minimum C grade; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MCED 52392 STUDENT TEACHING IN MIDDLE CHILDHOOD 9 Credit Hours**

Full-time student teaching for sixteen weeks on an interdisciplinary team in two selected concentrations (mathematics, language arts, social studies, science) and reading in grades 4-9. Students are required to complete Bureau of Criminal Investigation and Identification (BCII) and Federal Bureau of Investigation (FBI) background checks and submit the results to authorized personnel at their assigned school-agency before the first day of the semester in which student teaching internship will take place.

**Prerequisite:** Official valid certification of child safety training, approved basic life support and ALICE training must be presented to the campus office of clinical experience or designated faculty-staff at Regional campuses as prerequisite for student teaching; and graduate standing.

**Corequisite:** MCED 59525.

**Schedule Type:** Practical Experience

**Contact Hours:** 27 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**MCED 56645 CRITICAL INQUIRY AND INTEGRATION: SCIENCE AND SOCIAL STUDIES, GRADE 4 3 Credit Hours**

Introduces students to fourth grade content using an interdisciplinary, inquiry approach to teaching and learning in science and social studies.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MCED 57745 CRITICAL INQUIRY AND INTEGRATION: SCIENCE AND SOCIAL STUDIES, GRADE 5 3 Credit Hours**

Engages students in the use and development of pedagogical content knowledge for teaching grade 5 using an interdisciplinary, inquiry approach to teaching and learning in science and social studies.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MCED 59525 INQUIRY INTO PROFESSIONAL PRACTICE MIDDLE CHILDHOOD 3 Credit Hours**

A seminar linked to student teaching with an emphasis on action research as professional development, completion of professional portfolios, professional ethics and legal, medical and ethical issues in teaching.

**Prerequisite:** CI 67107 and MCED 50007 with a minimum C grade; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MCED 60115 SCIENCE TECHNOLOGY ENGINEERING AND MATH FOUNDATIONS FOR EARLY AND MIDDLE CHILDHOOD EDUCATION 3 Credit Hours**

(Cross-listed with ECED 60115) This course introduces early and middle childhood educators to STEM (Science, Technology, Engineering, Mathematics) for students in K-6 classrooms. This includes a foundation and overview of the what, how, and why STEM is included in K-6 classrooms. As a foundation course, students will gain exposure to integrating the STEM disciplines, assessment of mathematics and science in STEM, and aspects of developmentally appropriate STEM for early and middle childhood settings.

**Prerequisite:** ECED 50404 and ECED 50304 and ECED 50303; and graduate standing.

**Pre/corequisite:** ECED 50203.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

## Military Science (MSCI)

**MSCI 10180 INTRODUCTION TO LEADERSHIP I 1 Credit Hour**

Introduces the student to the concept of leadership in the military and in democratic society in general. Examines leadership characteristics principles and styles. Students must participate in outdoor character-building exercises.

**Corequisite:** MSCI 10191.

**Schedule Type:** Lecture

**Contact Hours:** 1 lecture

**Grade Mode:** Standard Letter

**MSCI 10185 INTRODUCTION TO LEADERSHIP II 1 Credit Hour**

Introduces the student to techniques and methods that leaders must employ. Examines time management, stress management, staff/group dynamics, problem-solving process and leadership climate.

**Corequisite:** MSCI 10191.

**Schedule Type:** Lecture

**Contact Hours:** 1 lecture

**Grade Mode:** Standard Letter

**MSCI 10191 LEADERSHIP SEMINAR I 1 Credit Hour**

(Repeatable for a total of 2 credit hours) Instructional program preparing individuals to undertake the broad range of tasks associated with the dimensions of leadership. Stresses decision-making roles of leaders in planning and executing organizational programs.

**Corequisite:** MSCI 10180 or MSCI 10185.

**Schedule Type:** Field Experience, Seminar

**Contact Hours:** 1 other

**Grade Mode:** Satisfactory/Unsatisfactory

**MSCI 20180 SURVEY OF AMERICAN MILITARY HISTORY 1 Credit Hour**

Traces North American military history, theory, doctrine, strategy and tactics from the pre- Revolutionary period to the present.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 1 lecture

**Grade Mode:** Standard Letter

**MSCI 20181 LEADERSHIP ASSESSMENT I 2 Credit Hours**

Interdisciplinary study of organizational leadership and group dynamics through assessment of sixteen behavioral dimensions. Provides practical application and assessment of leadership skills in formal organizations.

**Corequisite:** MSCI 20191.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**MSCI 20183 LEADERSHIP ASSESSMENT II 2 Credit Hours**

Interdisciplinary study of organizational leadership and group dynamics through assessment of 16 behavioral dimensions. Provides practical application and assessment of leadership skills in formal organizations.

**Corequisite:** MSCI 20191 (ROTC only).

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**MSCI 20191 LEADERSHIP SEMINAR II 1 Credit Hour**

(Repeatable for a total of 2 credit hours) Instructional program preparing individuals to undertake the broad range of tasks associated with the dimensions of leadership. Stresses decision-making roles of leaders in planning and executing organizational programs.

**Corequisite:** MSCI 20180 or MSCI 20181 or MSCI 20183.

**Schedule Type:** Field Experience, Seminar

**Contact Hours:** 1 other

**Grade Mode:** Satisfactory/Unsatisfactory

**MSCI 20196 INDIVIDUAL RESEARCH 1-2 Credit Hours**

(Repeatable for credit) Individual research projects in leadership, management techniques and mode program. Used only for selected personnel for entry into the advanced program.

**Prerequisite:** Sophomore standing; and special approval.

**Schedule Type:** Individual Investigation

**Contact Hours:** 1-2 other

**Grade Mode:** Standard Letter

**MSCI 30160 LEADERSHIP DEVELOPMENT 2 Credit Hours**

Develops managerial skills with emphasis on group dynamics, leadership theory and practical leadership experiences. Integrates communication skills, decision-making and group motivation.

**Prerequisite:** Special approval.

**Corequisite:** MSCI 30191.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**MSCI 30170 ORGANIZATIONAL LEADERSHIP 2 Credit Hours**

Application of management fundamentals, decision theory and leadership principles to organizations. Emphasis in coordinating, directing and controlling organizations.

**Prerequisite:** Special approval.

**Corequisite:** MSCI 30191.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**MSCI 30191 LEADERSHIP SEMINAR III 1 Credit Hour**

(Repeatable for credit) Instructional program preparing individuals to undertake the broad range of tasks associated with the dimensions of leadership stresses decision-making roles of leaders in planning and executing organizational programs.

**Corequisite:** MSCI 30160 or MSCI 30170.

**Schedule Type:** Field Experience, Seminar

**Contact Hours:** 1 other

**Grade Mode:** Standard Letter

**MSCI 40160 MILITARY MANAGEMENT AND ETHICS 2 Credit Hours**

Professional ethics and responsibilities of military leaders. Development of interpersonal and managerial communicative skills.

**Prerequisite:** Special approval.

**Corequisite:** MSCI 40191.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**MSCI 40170 THE PROFESSIONAL MILITARY OFFICER, MANAGEMENT, AND LAW 2 Credit Hours**

Studies in professional officer development, military justice system and the management of personnel resources.

**Prerequisite:** Special approval.

**Corequisite:** MSCI 40191.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**MSCI 40191 LEADERSHIP SEMINAR IV 1 Credit Hour**

(Repeatable for credit) Instructional program preparing individuals to undertake the broad range of tasks associated with the dimensions of leadership. Stresses decision-making roles of leaders in planning and executing organizational programs.

**Corequisite:** MSCI 40160 or MSCI 40170.

**Schedule Type:** Field Experience, Seminar

**Contact Hours:** 1 other

**Grade Mode:** Standard Letter

**MSCI 40196 INDIVIDUAL INVESTIGATION 1-3 Credit Hours**

(Repeatable for credit) Individual research projects, reports and readings.

**Prerequisite:** Advanced program standing; and special approval.

**Schedule Type:** Individual Investigation

**Contact Hours:** 1-3 other

**Grade Mode:** Standard Letter

## Modern and Classical Language Studies (MCLS)

### MCLS 10001 INTRODUCTION TO STRUCTURAL CONCEPTS FOR LANGUAGE STUDENTS 3 Credit Hours

Prepares students for successful study of a foreign language; includes introduction to basic grammatical concepts such as use of verb tenses, personal pronouns, etc., as well as strategies for learning a foreign language efficiently.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

### MCLS 10095 SPECIAL TOPICS IN ELEMENTARY FOREIGN LANGUAGE STUDY 1-3 Credit Hours

(Repeatable for credit) Study of a foreign language at the elementary level (Elementary I or II) or intermediate level (Intermediate I or II) as determined appropriate by the department. No proficiency needed for work at the Elementary I level; proficiency equivalent of Elementary I for work at the Elementary II level, at Elementary II for the Intermediate I level, and at Intermediate I for the Intermediate II level.

**Prerequisite:** Special approval.

**Schedule Type:** Lecture

**Contact Hours:** 1-3 other

**Grade Mode:** Standard Letter

### MCLS 20001 GLOBAL LITERACY AND CULTURAL AWARENESS (KADL) 3 Credit Hours

Introduction to dimensions of cultural identity and parameters of cultural expression, with a focus on fostering cultural awareness skills. By exploring the ways in which culture shapes us, students gain a better understanding of the dynamics shaping their world, the world of others, and their respective places in it. Discussion of real-world critical incidents, authentic cultural ethnographies, and case studies provide students with concrete examples and contexts to solve problems linked to encounters with persons of different linguistic and cultural backgrounds.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Kent Core Additional

### MCLS 20091 VARIABLE CONTENT SEMINAR IN GLOBAL LITERACY: CASE STUDIES 3 Credit Hours

(Repeatable for credit) In-depth study of the interaction between two or more cultures of the world, focusing on the impact of linguistic and other cultural differences. Topics will vary.

**Prerequisite:** None.

**Schedule Type:** Seminar

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

### MCLS 21417 MULTICULTURALISM IN TODAY'S GERMANY (DIVG) 3 Credit Hours

This course examines how issues of diversity have shaped German culture and traces the country's transformation into a postnational, multicultural society. Taught in English; knowledge of German not necessary.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Diversity Global

### MCLS 28403 HISPANICS IN THE UNITED STATES 3 Credit Hours

An introduction to historic and cultural aspects of Latino experiences in the United States using a comparative approach focusing on Mexicans, Puerto Ricans, Cubans, Central Americans and other immigrants from other Latin American countries, living in the United States. The course is taught in English.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

### MCLS 28404 THE LATIN AMERICAN EXPERIENCE (DIVG) 3 Credit Hours

An introduction to various aspects of contemporary Latin American societies and cultures. Taught in English; knowledge of a foreign language is not necessary.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Diversity Global

### MCLS 30420 FOREIGN LANGUAGES AND CULTURE STUDIES 3 Credit Hours

Examines the anthropological, linguistic and cultural dimensions involved in language interactions. Students acquire the skills necessary to analyze language and culture "in action" from verbal and non-verbal perspectives, and to identify and reflect on the distinctive viewpoints of other cultures and speakers of other languages. Interactive lectures, discussions and application activities build on students' current linguistic and cultural competence.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

### MCLS 30660 ORIENTATION TO SECOND LANGUAGE PEDAGOGY 3 Credit Hours

Theories of human development and learning, second language acquisition research and second language methodology form the basis for classroom practices. Peer-teaching and 30 hours of field experience required.

**Prerequisite:** Special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MCLS 39597 INTRADEPARTMENTAL COLLOQUIUM 1-4 Credit Hours**

(Repeatable for credit) Permits students to explore areas of special interest not usually covered in standard departmental courses, e.g. movies and literature, women in literature.

**Prerequisite:** None.

**Schedule Type:** Colloquium

**Contact Hours:** 1-4 other

**Grade Mode:** Standard Letter

**MCLS 40093 VARIABLE TITLE WORKSHOP IN MODERN AND CLASSICAL LANGUAGE STUDIES 1-6 Credit Hours**

(Repeatable for credit) Workshops individually designed to provide instruction and training in specific areas of modern and classical language studies.

**Prerequisite:** Departmental special approval.

**Schedule Type:** Workshop

**Contact Hours:** 1-6 other

**Grade Mode:** Satisfactory/Unsatisfactory

**MCLS 40095 SELECTED TOPICS 1-3 Credit Hours**

(Repeatable for credit when topic varies) Topic to be announced in the schedule of classes.

**Prerequisite:** Senior standing.

**Schedule Type:** Lecture

**Contact Hours:** 1-3 lecture

**Grade Mode:** Standard Letter

**MCLS 40525 INQUIRY INTO PROFESSIONAL PRACTICE 3 Credit Hours**

Foreign language teaching as a profession and the teacher as disciplined investigator. The final seminar of four is conducted during the student teaching semester with emphasis on collaborative and individual classroom problem solving.

**Prerequisite:** Special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MCLS 40654 COMPUTERS IN SECOND LANGUAGE TEACHING 3 Credit Hours**

(Slashed and MCLS 50654) Designed for future teachers of language and culture, this course explores the availability of technology, its implementation in the classroom and its integration with second language skills.

**Prerequisite:** MCLS 30660.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MCLS 40657 STUDENT TEACHING OF A SECOND LANGUAGE (ELR) 3-9 Credit Hours**

Supervised practicum in the teaching of a second language, grades K-12.

**Prerequisite:** Official valid certification of child safety training, approved basic life support and ALICE training must be presented to the campus office of clinical experience or designated faculty/staff at regional campuses as prerequisite for student teaching; and special approval.

**Schedule Type:** Practical Experience

**Contact Hours:** 3-9 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**Attributes:** Experiential Learning Requirement

**MCLS 40660 METHODS OF TEACHING FOREIGN LANGUAGE 3 Credit Hours**

Theoretical bases, approaches, methods, materials and techniques of foreign language instruction at the elementary and secondary levels.

Peer-teaching and 30 hours of field experience required.

**Prerequisite:** MCLS 30660; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MCLS 50093 VARIABLE TITLE WORKSHOP IN MODERN AND CLASSICAL LANGUAGE STUDIES 1-6 Credit Hours**

(Repeatable for credit) Workshops individually designed to provide instruction and training in specific areas of modern and classical language studies.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Workshop

**Contact Hours:** 1-6 other

**Grade Mode:** Satisfactory/Unsatisfactory

**MCLS 50095 SELECTED TOPICS 1-3 Credit Hours**

(Repeatable for credit when topic varies) Topic to be announced in the schedule of classes.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 1-3 lecture

**Grade Mode:** Standard Letter

**MCLS 50654 COMPUTERS IN SECOND LANGUAGE TEACHING 3 Credit Hours**

(Slashed with MCLS 40654) Designed for teachers of language and culture, this course explores the availability of technology, its implementation in the classroom and its integration with foreign language skills.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MCLS 50660 METHODS OF TEACHING FOREIGN LANGUAGES 3 Credit Hours**

Theoretical bases, approaches, methods, materials and techniques of foreign language instruction at the elementary and secondary levels. Peer teaching 30 hours of field experience and curriculum guide required.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MCLS 60020 SEMEIOTICS 3 Credit Hours**

(Cross-listed PHIL 61055) An introduction to contemporary theories of semeiotics and to the application of those theories to linguistics, literature, translation and technology.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MCLS 60094 COLLEGE TEACHING OF FOREIGN LANGUAGES 1****Credit Hour**

(Repeatable for credit) An introduction to current principles and issues in the teaching of foreign languages at the college elementary and intermediate levels. Required of departmental teaching assistants.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 1 lecture

**Grade Mode:** Satisfactory/Unsatisfactory

**MCLS 60330 APPROACHES TO LITERATURE AND CULTURE 3 Credit Hours**

Introduction to the major critical theories used for the analysis of literature and culture.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MCLS 60601 LINGUISTICS FOR THE LANGUAGE PROFESSIONS 3 Credit Hours**

(Cross-listed with ENG 63040) Students will be introduced to basic linguistic issues and how these relate to the language professions.

Course focuses on functional principles, especially on options to express textual, interpersonal and ideational/experiential meaning.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MCLS 60621 THE PRAGMATICS OF CONVERSATION 3 Credit Hours**

Theories of pragmatics, conversational structure and strategies with practical applications for teaching conversation strategies to foreign/second language learners.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MCLS 60622 TEACHING LITERATURE AND CULTURE 3 Credit Hours**

(Cross-listed with ENG 63038) Students will explore theories of literature and culture teaching as well as strategies for teaching literature and culture.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MCLS 60623 SOCIOCULTURAL THEORY AND FOREIGN AND SECOND LANGUAGE ACQUISITION 3 Credit Hours**

The foundations of sociocultural theory and its applications to the second and foreign language classroom.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MCLS 60624 HERITAGE LANGUAGES AND SECOND LANGUAGE LEARNING 3 Credit Hours**

(Cross-listed with ENG 63047) Theory and practice in language education of heritage language speakers. Ethnic, minority, ancestral, and community languages and language practices will be explored with implications for second and additional language learning in English, foreign language, bilingual education.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MCLS 60661 THEORIES IN SECOND LANGUAGE ACQUISITION 3 Credit Hours**

(Slashed with ENG 63033 and ENG 73033) This course surveys the major theoretical approaches to language acquisition, concentrating on second language acquisition and the relationship between acquisition/learning research and second language teaching approaches.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MCLS 60663 SECOND LANGUAGE CURRICULUM AND TESTING 3 Credit Hours**

(Cross-listed with ENG 63039) Students will study second language curriculum and testing design and current issues, including oral proficiency testing.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MCLS 60664 SECOND LANGUAGE READING 3 Credit Hours**

(Cross-listed with ENG 63044) This course addresses a wide variety of topics related to second language reading, including theoretical perspectives, the process of learning to read, models of how reading happens, comprehension, fluency, discourse structures, strategy use, and vocabulary acquisition. Teaching issues related to second language reading will also be addressed directly, namely assessment and curriculum building.

**Prerequisite:** Graduate standing.

**Schedule Type:** Seminar

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MCLS 60665 SECOND LANGUAGE WRITING 3 Credit Hours**

(Cross-listed with ENG 63043) Theory and practice in teaching second language writing. Topics will include current and historic approaches to second language writing, approaches to tutoring international students in writing centers, teacher and peer response, error correction and technology in second language writing instruction.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter



**MCLS 60698 SECOND LANGUAGE RESEARCH METHODS 3 Credit Hours**

(Cross-listed with ENG 63098) Students learn how second language research influences their teaching practices by studying research texts and recent journal articles and conducting a research project.

**Prerequisite:** Graduate standing.

**Schedule Type:** Research

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

## Music (MUS)

**MUS 11110 MUSIC FUNDAMENTALS 3 Credit Hours**

Introduction to the pitch and rhythmic aspects of music. Emphasis on aural skills and music notation. Prepares students for MUS 11111. No credit toward graduation for music majors or minors.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MUS 11111 MUSIC RUDIMENTS 3 Credit Hours**

Introduction to the pitch and rhythmic aspects of music. Emphasis on aural/oral skills and music notation. No credit toward graduation for music majors or minors.

**Prerequisite:** Music Theory Placement Test, score of 01.

**Schedule Type:** Laboratory, Lecture, Combined Lecture and Lab

**Contact Hours:** 2 lecture, 2 lab

**Grade Mode:** Standard Letter

**MUS 11121 THEORY I 4 Credit Hours**

Basic elements of music—harmonic, melodic, rhythmic—studied through analysis, composition, keyboard and ear training. Diatonic materials emphasized.

**Prerequisite:** Music Theory Placement Test, score of 02.

**Schedule Type:** Laboratory, Lecture

**Contact Hours:** 3 lecture, 2 lab

**Grade Mode:** Standard Letter

**Attributes:** TAG Arts and Humanities

**MUS 11122 THEORY II 4 Credit Hours**

Continuation of basic elements of music—harmonic, melodic, rhythmic—studied through analysis, composition, keyboard, singing and ear training. Chromatic materials emphasized.

**Prerequisite:** MUS 11121 with a C grade.

**Schedule Type:** Laboratory, Lecture

**Contact Hours:** 3 lecture, 2 lab

**Grade Mode:** Standard Letter

**Attributes:** TAG Arts and Humanities

**MUS 16914 ELECTRIC GUITAR APPLIED STUDIO MUSICIANSHIP 2,4 Credit Hours**

(Repeatable for credit) Development of performance proficiency in popular music styles.

**Prerequisite:** None.

**Schedule Type:** Private Lesson, Studio

**Contact Hours:** 1.5-2 other

**Grade Mode:** Standard Letter

**MUS 16915 ELECTRIC BASS APPLIED STUDIO MUSICIANSHIP 2,4 Credit Hours**

(Repeatable for credit) Development of performance proficiency in popular music styles.

**Prerequisite:** None.

**Schedule Type:** Private Lesson, Studio

**Contact Hours:** 1.5-2 other

**Grade Mode:** Standard Letter

**MUS 17011 PIANO CLASS FOR NONMUSIC STUDENTS 2 Credit Hours**

Development of basic skills required in playing piano, including familiarity with the keyboard and music notation.

**Prerequisite:** None.

**Schedule Type:** Laboratory

**Contact Hours:** 3 lab

**Grade Mode:** Standard Letter

**MUS 17012 PIANO CLASS FOR NONMUSIC STUDENTS 2 Credit Hours**

Development of basic skills required in playing piano, including familiarity with the keyboard and music notation.

**Prerequisite:** MUS 17011.

**Schedule Type:** Laboratory

**Contact Hours:** 3 lab

**Grade Mode:** Standard Letter

**MUS 17013 FUNDAMENTALS OF JAZZ PIANO 1 Credit Hour**

Focus on the fundamentals of jazz piano chord voicings and accompanying, playing scales related to jazz theory, and learning jazz repertoire on the piano. Additional skills related to becoming a well-rounded jazz improviser, composer and educator.

**Prerequisite:** MUS 17112 with a minimum C grade; and music major, music education major or music technology major.

**Schedule Type:** Studio

**Contact Hours:** 2 other

**Grade Mode:** Standard Letter

**MUS 17111 PIANO CLASS I 1 Credit Hour**

Preparatory piano. Piano literature and functional elements of sight-reading, transposition, harmonization and improvisation.

**Prerequisite:** Special approval.

**Schedule Type:** Laboratory

**Contact Hours:** 2 lab

**Grade Mode:** Standard Letter

**Attributes:** TAG Arts and Humanities

**MUS 17112 PIANO CLASS II 1 Credit Hour**

Preparatory piano. Piano literature and functional elements of sight-reading, transposition, harmonization and improvisation.

**Prerequisite:** MUS 17111 with a minimum C grade; and special approval.

**Schedule Type:** Laboratory

**Contact Hours:** 2 lab

**Grade Mode:** Standard Letter

**Attributes:** TAG Arts and Humanities

**MUS 18611 SINGER'S DICTION I 1 Credit Hour**

Foundational training and performance practice in phonetics and singing diction for the English, American, Ecclesiastical Latin and Italian vocal repertoire.

**Prerequisite:** Music or music education major.

**Schedule Type:** Lecture

**Contact Hours:** 1 lecture

**Grade Mode:** Standard Letter

**MUS 18612 SINGER'S DICTION II 1 Credit Hour**

Foundational training and performance practice in phonetics and singing diction for the vocal repertoire of French, German and selected other languages.

**Prerequisite:** MUS 18611 with a C grade; and music major.

**Schedule Type:** Lecture

**Contact Hours:** 1 lecture

**Grade Mode:** Standard Letter

**MUS 20295 SPECIAL TOPICS IN MUSIC 1-3 Credit Hours**

(Repeatable for credit) Academic study in areas not offered adequately in the music curriculum. Topic areas are of special interest to the faculty member.

**Prerequisite:** Music major.

**Schedule Type:** Lecture

**Contact Hours:** 1-3 lecture

**Grade Mode:** Standard Letter

**MUS 21111 THEORY III 4 Credit Hours**

Study of Western art music from the sixteenth through eighteenth centuries. Emphasis on analytical, aural, compositional, and keyboard components of music theory.

**Prerequisite:** MUS 11122 with a minimum C grade.

**Schedule Type:** Laboratory, Lecture

**Contact Hours:** 3 lecture, 2 lab

**Grade Mode:** Standard Letter

**Attributes:** TAG Arts and Humanities

**MUS 21112 THEORY IV 4 Credit Hours**

Study of Western art music from the nineteenth and early twentieth centuries. Emphasis on analytical, aural, compositional and keyboard components of music theory.

**Prerequisite:** MUS 21111 with a minimum C grade.

**Schedule Type:** Laboratory, Lecture

**Contact Hours:** 3 lecture, 2 lab

**Grade Mode:** Standard Letter

**Attributes:** TAG Arts and Humanities

**MUS 21113 MUSIC PRODUCTION I 3 Credit Hours**

A practical introduction to digital audio production, study of basic computer assisted recording, editing and music production.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MUS 21114 MUSIC PRODUCTION II 3 Credit Hours**

A practical study of computer assisted composition and arranging covering MIDI, sequencing, synthesis, sampling and video synchronization.

**Prerequisite:** MUS 21113 and 21221 with minimum C grade.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MUS 21211 CLASS COMPOSITION I 2 Credit Hours**

Introduction to beginning concepts involved with composing. Students in non-music majors may register for the course with departmental approval.

**Prerequisite:** Music major Music Education major or Music Technology major.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**MUS 21212 CLASS COMPOSITION II 2 Credit Hours**

Application of beginning concepts involved with composing.

**Prerequisite:** MUS 21211 with a minimum C grade.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**MUS 21221 AUDIO RECORDING I 3 Credit Hours**

A study of fundamental studio recording technology, theory and techniques, including signal flow, microphone theory, the human auditory system, analog audio consoles and standard industry Digital Audio Workstations (DAWs).

**Prerequisite:** MUS 21113 with a minimum C grade.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MUS 21222 AUDIO RECORDING II 3 Credit Hours**

A continuation of audio theory and techniques addressed in Audio Recording I. This includes study of the decibel, digital audio theory, microphone techniques, fundamental multi-track recording techniques as well as DAW session setup, file management and recording session etiquette.

**Prerequisite:** MUS 21221 with a minimum C grade.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MUS 21341 CONTEMPORARY POPULAR MUSIC THEORY 3 Credit Hours**

Application of the knowledge gained from Music Theory (MUS 11121 and 11122) to the study of popular music through practical applications, particularly with regard to composition and improvisation.

**Prerequisite:** MUS 11122 with a minimum C grade.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MUS 22111 THE UNDERSTANDING OF MUSIC (KFA) 3 Credit Hours**

A listening approach for the understanding of Western art music, folk and jazz. Particular attention is paid to musical styles forms and compositional techniques as related to music history.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Kent Core Fine Arts, Transfer Module Fine Arts

**MUS 22121 MUSIC AS A WORLD PHENOMENON (DIVG) (KFA) 3 Credit Hours**

An introduction to music as a world phenomenon. Study of selected art, folk and popular music from world cultures through live performances, tapes, films, video tapes and readings.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Diversity Global, Kent Core Fine Arts, Transfer Module Fine Arts

**MUS 22131 SURVEY OF ROCK MUSIC HISTORY (DIVD) 3 Credit Hours**

A survey of Rock Music History from the 1950s through the twentieth century to today. Emphasis is on recognizing music literature, prominent artists and music styles, as well as related cultural events. Modern media, especially the Internet, is an integral component of the course.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Diversity Domestic

**MUS 23241 MUSIC TEACHING AS A PROFESSION 2 Credit Hours**

Basic teaching strategies and techniques; an overview of music teaching as a career; diversity, integration, curriculum technology, classroom management, legal issues, personal skills and portfolio. Twenty (20) field hours required.

**Prerequisite:** Music or music education major.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**MUS 25011 UNIVERSITY CHORUS 1 Credit Hour**

(Repeatable for credit) Choral ensemble which studies and performs sacred and secular music for mixed voices. Activities include performance on and off campus.

**Prerequisite:** Special approval.

**Schedule Type:** Lecture

**Contact Hours:** 1 lecture

**Grade Mode:** Standard Letter

**Attributes:** TAG Arts and Humanities

**MUS 25225 UNIVERSITY BAND 1 Credit Hour**

(Repeatable for credit) Study and performance of music literature for wind band appropriate for music majors and non-majors.

**Prerequisite:** None.

**Schedule Type:** Laboratory

**Contact Hours:** 1 lab

**Grade Mode:** Standard Letter

**MUS 25311 CHAMBER MUSIC 1 Credit Hour**

(Repeatable for credit) The study and performance of music for small ensembles.

**Prerequisite:** Permission.

**Schedule Type:** Laboratory

**Contact Hours:** 1 lab

**Grade Mode:** Standard Letter

**MUS 25312 WORLD MUSIC ENSEMBLE 1 Credit Hour**

(Repeatable for credit) The World Music Ensemble teaches performance and cultural etiquette associated with traditional and popular world music genres, e.g., African drumming. Specific traditions studied include areas of specialization of instructors and or advanced student participants.

**Prerequisite:** None.

**Schedule Type:** Studio

**Contact Hours:** 2 other

**Grade Mode:** Standard Letter

**MUS 26111 APPLIED MUSIC PIANO 2,4 Credit Hours**

(Repeatable for credit) A comprehensive study of performance, technique and repertoire appropriate to lower division study. Individual instruction.

An audition is required. This course meets program requirements in the Bachelor of Science in Music Technology program only.

**Prerequisite:** 26000 Applied Must Test - audition.

**Schedule Type:** Private Lesson, Studio

**Contact Hours:** 2-4 other

**Grade Mode:** Standard Letter

**MUS 26311 APPLIED MUSIC VOICE 2,4 Credit Hours**

(Repeatable for credit) A comprehensive study of performance, technique and repertoire appropriate to lower division study. Individual instruction.

An audition is required. This course meets program requirements in the Bachelor of Science in Music Technology program only.

**Prerequisite:** 26000 Applied Music Test - audition.

**Schedule Type:** Private Lesson, Studio

**Contact Hours:** 2-4 other

**Grade Mode:** Standard Letter

**MUS 26411 APPLIED MUSIC - VIOLIN 2,4 Credit Hours**

(Repeatable for credit) A comprehensive study of performance, technique and repertoire appropriate to lower division study. Individual instruction.

An audition is required. This course meets program requirements in the Bachelor of Science in Music Technology program only.

**Prerequisite:** 26000 Applied Music Test.

**Schedule Type:** Private Lesson, Studio

**Contact Hours:** 1.5-2 other

**Grade Mode:** Standard Letter

**MUS 26412 APPLIED MUSIC - VIOLA 2,4 Credit Hours**

(Repeatable for credit) A comprehensive study of performance, technique and repertoire appropriate to lower division study. Individual instruction.

An audition is required. This course meets program requirements in the Bachelor of Science in Music Technology program only.

**Prerequisite:** 26000 Applied Music Test.

**Schedule Type:** Private Lesson, Studio

**Contact Hours:** 1.5-2 other

**Grade Mode:** Standard Letter

**MUS 26413 APPLIED MUSIC - CELLO 2,4 Credit Hours**

(Repeatable for credit) A comprehensive study of performance, technique and repertoire appropriate to lower division study. Individual instruction.

An audition is required. This course meets program requirements in the Bachelor of Science in Music Technology program only.

**Prerequisite:** 26000 Applied Music Test.

**Schedule Type:** Private Lesson, Studio

**Contact Hours:** 1.5-2 other

**Grade Mode:** Standard Letter

**MUS 26414 APPLIED MUSIC DOUBLE BASS 2,4 Credit Hours**

(Repeatable for credit) A comprehensive study of performance, technique and repertoire appropriate to lower division study. Individual instruction.

An audition is required. This course meets program requirements in the Bachelor of Science in Music Technology program only.

**Prerequisite:** 26000 Applied Music Test - audition.

**Schedule Type:** Private Lesson, Studio

**Contact Hours:** 2-4 other

**Grade Mode:** Standard Letter

**MUS 26511 APPLIED MUSIC - FLUTE 2,4 Credit Hours**

(Repeatable for credit) A comprehensive study of performance, technique and repertoire appropriate to lower division study. Individual instruction. An audition is required. This course meets program requirements in the Bachelor of Science in Music Technology program only.

**Prerequisite:** 26000 Applied Music Test.

**Schedule Type:** Private Lesson, Studio

**Contact Hours:** 1.5-2 other

**Grade Mode:** Standard Letter

**MUS 26512 APPLIED MUSIC - OBOE 2,4 Credit Hours**

(Repeatable for credit) A comprehensive study of performance, technique and repertoire appropriate to lower division study. Individual instruction. An audition is required. This course meets program requirements in the Bachelor of Science in Music Technology program only.

**Prerequisite:** 26000 Applied Music Test.

**Schedule Type:** Private Lesson, Studio

**Contact Hours:** 1.5-2 other

**Grade Mode:** Standard Letter

**MUS 26513 APPLIED MUSIC - CLARINET 2,4 Credit Hours**

(Repeatable for credit) A comprehensive study of performance, technique and repertoire appropriate to lower division study. Individual instruction. An audition is required. This course meets program requirements in the Bachelor of Science in Music Technology program only.

**Prerequisite:** 26000 Applied Music Test.

**Schedule Type:** Private Lesson, Studio

**Contact Hours:** 1.5-2 other

**Grade Mode:** Standard Letter

**MUS 26514 APPLIED MUSIC - BASSOON 2,4 Credit Hours**

(Repeatable for credit) A comprehensive study of performance, technique and repertoire appropriate to lower division study. Individual instruction. An audition is required. This course meets program requirements in the Bachelor of Science in Music Technology program only.

**Prerequisite:** 26000 Applied Music Test.

**Schedule Type:** Private Lesson, Studio

**Contact Hours:** 1.5-2 other

**Grade Mode:** Standard Letter

**MUS 26515 APPLIED MUSIC - SAXOPHONE 2,4 Credit Hours**

(Repeatable for credit) A comprehensive study of performance, technique and repertoire appropriate to lower division study. Individual instruction. An audition is required. This course meets program requirements in the Bachelor of Science in Music Technology program only.

**Prerequisite:** 26000 Applied Music Test.

**Schedule Type:** Private Lesson, Studio

**Contact Hours:** 1.5-2 other

**Grade Mode:** Standard Letter

**MUS 26611 APPLIED MUSIC - TRUMPET 2,4 Credit Hours**

(Repeatable for credit) A comprehensive study of performance, technique and repertoire appropriate to lower division study. Individual instruction. An audition is required. This course meets program requirements in the Bachelor of Science in Music Technology program only.

**Prerequisite:** 26000 Applied Music Test.

**Schedule Type:** Private Lesson, Studio

**Contact Hours:** 1.5-2 other

**Grade Mode:** Standard Letter

**MUS 26612 APPLIED MUSIC - HORN 2,4 Credit Hours**

(Repeatable for credit) A comprehensive study of performance, technique and repertoire appropriate to lower division study. Individual instruction. An audition is required. This course meets program requirements in the Bachelor of Science in Music Technology program only.

**Prerequisite:** 26000 Applied Music Test.

**Schedule Type:** Private Lesson, Studio

**Contact Hours:** 1.5-2 other

**Grade Mode:** Standard Letter

**MUS 26613 APPLIED MUSIC - TROMBONE 2,4 Credit Hours**

(Repeatable for credit) A comprehensive study of performance, technique and repertoire appropriate to lower division study. Individual instruction. An audition is required. This course meets program requirements in the Bachelor of Science in Music Technology program only.

**Prerequisite:** 26000 Applied Music Test.

**Schedule Type:** Private Lesson, Studio

**Contact Hours:** 1.5-2 other

**Grade Mode:** Standard Letter

**MUS 26614 APPLIED MUSIC - EUPHONIUM 2,4 Credit Hours**

(Repeatable for credit) A comprehensive study of performance, technique and repertoire appropriate to lower division study. Individual instruction. An audition is required. This course meets program requirements in the Bachelor of Science in Music Technology program only.

**Prerequisite:** 26000 Applied Music Test.

**Schedule Type:** Private Lesson, Studio

**Contact Hours:** 1.5-2 other

**Grade Mode:** Standard Letter

**MUS 26615 APPLIED MUSIC - TUBA 2,4 Credit Hours**

(Repeatable for credit) A comprehensive study of performance, technique and repertoire appropriate to lower division study. Individual instruction. An audition is required. This course meets program requirements in the Bachelor of Science in Music Technology program only.

**Prerequisite:** 26000 Applied Music Test.

**Schedule Type:** Private Lesson, Studio

**Contact Hours:** 1.5-2 other

**Grade Mode:** Standard Letter

**MUS 26711 APPLIED MUSIC PERCUSSION 2,4 Credit Hours**

(Repeatable for credit) A comprehensive study of performance, technique and repertoire appropriate to lower division study. Individual instruction. An audition is required. This course meets program requirements in the Bachelor of Science in Music Technology program only.

**Prerequisite:** 26000 Applied Music Test - audition.

**Schedule Type:** Private Lesson, Studio

**Contact Hours:** 2-4 other

**Grade Mode:** Standard Letter

**MUS 26912 APPLIED MUSIC GUITAR 2,4 Credit Hours**

(Repeatable for credit) A comprehensive study of performance, technique and repertoire appropriate to lower division study. Individual instruction. An audition is required. This course meets program requirements in the Bachelor of Science in Music Technology program only.

**Prerequisite:** 26000 Applied Music Test - audition.

**Schedule Type:** Private Lesson, Studio

**Contact Hours:** 2-4 other

**Grade Mode:** Standard Letter

**MUS 27111 PIANO CLASS III 2 Credit Hours**

Continuation of piano classes. Credit acceptable on music major and minor sequences.

**Prerequisite:** MUS 17112 with a minimum C grade.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**MUS 27112 PIANO CLASS IV 2 Credit Hours**

Continuation of piano classes. Credit acceptable on music major and minor sequences.

**Prerequisite:** MUS 27111 with a minimum C grade.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**MUS 31113 MUSIC PRODUCTION III 3 Credit Hours**

Continuation of Music Production II. Advanced sequencing, synthesis and audio editing techniques as applied to music production. Focus is on arranging.

**Prerequisite:** Minimum C grade in MUS 11121, MUS 21114, and MUS 21222; and 36000 applied music threshold.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MUS 31114 MUSIC PRODUCTION IV 3 Credit Hours**

Continuation of Music Production III. Arranging for acoustic and electronic instruments as applied to music production. Development of MIDI programming skills and use of sample sets.

**Prerequisite:** MUS 31113 with a minimum C grade; and music technology major.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MUS 31121 WESTERN MUSIC SINCE 1900 2 Credit Hours**

Class meets three hours per week. The study of western art music since 1900 from historical and theoretical viewpoints. Emphasis on aural listening music composition and written skills as well as intellectual understanding.

**Prerequisite:** MUS 21112 and MUS 32212 with a minimum C grade.

**Schedule Type:** Laboratory, Lecture, Combined Lecture and Lab

**Contact Hours:** 1 lecture, 2 lab

**Grade Mode:** Standard Letter

**MUS 31211 COMPOSITION 2-4 Credit Hours**

(Repeatable for credit) Original composition for instrumental and vocal solos and small ensembles using shorter musical forms.

**Prerequisite:** MUS 21212 with a minimum C grade; and Music major or Music Education major.

**Schedule Type:** Private Lesson, Studio

**Contact Hours:** 7.5-15 other

**Grade Mode:** Standard Letter

**MUS 31221 AUDIO RECORDING III 3 Credit Hours**

A study of advanced recording and record production techniques. Topics include pre-production planning, instrument-specific single and multi-mic techniques, re-amping and other techniques.

**Prerequisite:** Minimum C grade in MUS 11121, MUS 21114 and MUS 21222; and 36000 applied music threshold.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MUS 31222 AUDIO RECORDING IV 3 Credit Hours**

A detailed study of the tools, techniques and critical listening decisions required in creating a professional audio mx.

**Prerequisite:** MUS 31221 with a minimum C grade.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MUS 32211 MUSIC HISTORY I 3 Credit Hours**

A study of Western music history from the early Christian chants through the Early Classical style.

**Prerequisite:** MUS 22111 (music major section) with a minimum C grade; and junior standing.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 2 lecture, 2 lab

**Grade Mode:** Standard Letter

**MUS 32212 MUSIC HISTORY II (WIC) 3 Credit Hours**

A study of Western music history from the Classical style period to the present.

**Prerequisite:** MUS 22111 (music major section) and MUS 32211 with a minimum C grade; and junior standing.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 2 lecture, 2 lab

**Grade Mode:** Standard Letter

**Attributes:** Writing Intensive Course

**MUS 32230 NAVIGATING THE MUSIC INDUSTRY 3 Credit Hours**

An overview and study of the music industry. Current practices are examined including artist contracts, music copyright and licensing, and revenue flow from music consumers to content creators. Special emphasis is placed on entrepreneurial activity within the music industry.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MUS 33211 ELEMENTARY AND SECONDARY GENERAL MUSIC 4 Credit Hours**

Kodaly, Orff, Dalcroze and current strategies appropriate for early childhood K-12 general music classrooms. Emphasis on teaching diverse learners, including special student populations. Clinical experience in the teaching of general music in the schools. Forty (40) field hours required.

**Prerequisite:** Admission to advanced study; and MUS 23241 with a minimum C grade; and music or music education major; and junior standing.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 3 lecture, 1 lab

**Grade Mode:** Standard Letter

**MUS 33214 MUSIC TECHNOLOGY FOR MUSIC EDUCATORS 1 Credit Hour**

The application of technologies specific to music instruction and learning for music education majors. Emphasis is placed on project-based instruction focusing on the practical uses of technology in school settings.

**Prerequisite:** Music education major.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 1 lecture, 1 lab

**Grade Mode:** Standard Letter



**MUS 33231 ELEMENTARY AND SECONDARY CHORAL MUSIC 4  
Credit Hours**

Methods, materials, and literature used in elementary and secondary choral music programs; designing a choral curriculum, advocacy and assessment, lesson planning, program organization, budget. Clinical experience in the teaching of choral music. Forty (40) field hours required.

**Prerequisite:** Admission to advanced study; and MUS 23241 and 34111 with a minimum C grade; and junior standing.

**Schedule Type:** Laboratory, Lecture, Combined Lecture and Lab

**Contact Hours:** 3 lecture, 2 lab

**Grade Mode:** Standard Letter

**MUS 33314 PROGRESSIVE AND VERNACULAR MUSIC METHODS 2  
Credit Hours**

Elementary through secondary instruction in music methods related to vernacular and popular music styles. Students will gain experience in lesson planning, program organization, recruiting, and performing with ensembles that exist outside of the band-orchestra-chorus model including, but not limited to, rock bands, technology-based ensembles, and other non-traditional ensembles. Experiences will focus on popular and vernacular music-making techniques, facilitating small- and large-group instruction, and incorporating these experiences within the traditional school music setting.

**Prerequisite:** Admission to advanced study; and MUS 23241 with a minimum C grade; and music education major; and completion of the music education professional evaluation.

**Schedule Type:** Laboratory, Lecture, Combined Lecture and Lab

**Contact Hours:** 1 lecture, 2 lab

**Grade Mode:** Standard Letter

**MUS 34111 INTRODUCTION TO CONDUCTING 2 Credit Hours**

Introduction to and study of conducting: beat patterns, baton techniques, score reading, analysis and interpretive elements. Six field/clinical hours are required.

**Prerequisite:** MUS 11122 with a minimum C grade; and junior standing.

**Schedule Type:** Laboratory, Lecture, Combined Lecture and Lab

**Contact Hours:** 1 lecture, 2 lab

**Grade Mode:** Standard Letter

**MUS 34211 ELEMENTARY AND SECONDARY GENERAL MUSIC 2  
Credit Hours**

Kodaly, Orff, Dalcroze, and current strategies appropriate for early childhood K-12 general music classrooms. Emphasis on teaching diverse learners, including special student populations. Clinical experience in the teaching of general music in the schools. Thirty (30) field hours required.

**Prerequisite:** Admission to advanced study; and MUS 23241 with a minimum C grade; and music or music education major; and completion of the music education professional evaluation; and junior standing.

**Schedule Type:** Laboratory, Lecture, Combined Lecture and Lab

**Contact Hours:** 1 lecture, 3 lab

**Grade Mode:** Standard Letter

**MUS 34212 ELEMENTARY AND SECONDARY CHORAL MUSIC 2  
Credit Hours**

Methods, materials, and literature used in elementary and secondary choral music programs; designing a choral curriculum, advocacy and assessment, lesson planning, program organization, budget. Clinical experience in the teaching of choral music. Thirty (30) field hours required.

**Prerequisite:** Admission to advanced study; and MUS 23241 and 34111 with a minimum C grade; and completion of the music education professional evaluation; and junior standing.

**Schedule Type:** Laboratory, Lecture, Combined Lecture and Lab

**Contact Hours:** 1 lecture, 3 lab

**Grade Mode:** Standard Letter

**MUS 35213 STUDIO ENSEMBLE 1 Credit Hour**

(Repeatable for a maximum of 16 credit hours) Development of ensemble skills through small group experience performing diverse popular styles from notation, developing improvisation skills and creating arrangements from lead charts. Students must audition for the director prior to registration for the course.

**Prerequisite:** Special approval.

**Schedule Type:** Studio

**Contact Hours:** 2 other

**Grade Mode:** Standard Letter

**MUS 36011 APPLIED MUSIC - JAZZ 2,4 Credit Hours**

(Repeatable for credit) Private instrumental instruction in Jazz techniques.

**Prerequisite:** Audition; and special approval.

**Schedule Type:** Private Lesson

**Contact Hours:** 1.5-2 other

**Grade Mode:** Standard Letter

**MUS 36111 APPLIED MUSIC-PIANO 2,4 Credit Hours**

(Repeatable for credit) A comprehensive study of performance, technique and repertoire appropriate to music majors and minors. Individual study. Students must audition to be accepted into this course.

**Prerequisite:** Music, music technology or music education major.

**Schedule Type:** Private Lesson, Studio

**Contact Hours:** 1.5-2 other

**Grade Mode:** Standard Letter

**Attributes:** TAG Arts and Humanities

**MUS 36311 APPLIED MUSIC-VOICE 2,4 Credit Hours**

(Repeatable for credit) A comprehensive study of performance, technique and repertoire appropriate to music majors and minors. Individual study. Students must audition to be accepted into this course.

**Prerequisite:** Music, music technology or music education major.

**Schedule Type:** Private Lesson, Studio

**Contact Hours:** 1 other

**Grade Mode:** Standard Letter

**Attributes:** TAG Arts and Humanities

**MUS 36411 APPLIED MUSIC-VIOLIN 2,4 Credit Hours**

(Repeatable for credit) A comprehensive study of performance, technique and repertoire appropriate to music majors and minors. Individual study. Students must audition to be accepted into this course.

**Prerequisite:** Music, music technology or music education major.

**Schedule Type:** Private Lesson, Studio

**Contact Hours:** 1 other

**Grade Mode:** Standard Letter

**Attributes:** TAG Arts and Humanities

**MUS 36412 APPLIED MUSIC-VIOLA 2,4 Credit Hours**  
 (Repeatable for credit) A comprehensive study of performance, technique and repertoire appropriate to music majors and minors. Individual study. Students must audition to be accepted into this course.  
**Prerequisite:** Music, music technology or music education major.  
**Schedule Type:** Private Lesson, Studio  
**Contact Hours:** 1 other  
**Grade Mode:** Standard Letter  
**Attributes:** TAG Arts and Humanities

**MUS 36413 APPLIED MUSIC-CELLO 2,4 Credit Hours**  
 (Repeatable for credit) A comprehensive study of performance, technique and repertoire appropriate to music majors and minors. Individual study. Students must audition to be accepted into this course.  
**Prerequisite:** Music, music technology or music education major.  
**Schedule Type:** Private Lesson, Studio  
**Contact Hours:** 1 other  
**Grade Mode:** Standard Letter  
**Attributes:** TAG Arts and Humanities

**MUS 36414 APPLIED MUSIC-DOUBLE BASS 2,4 Credit Hours**  
 (Repeatable for credit) A comprehensive study of performance, technique and repertoire appropriate to music majors and minors. Individual study. Students must audition to be accepted into this course.  
**Prerequisite:** Music, music technology or music education major.  
**Schedule Type:** Private Lesson, Studio  
**Contact Hours:** 1 other  
**Grade Mode:** Standard Letter  
**Attributes:** TAG Arts and Humanities

**MUS 36511 APPLIED MUSIC-FLUTE 2,4 Credit Hours**  
 (Repeatable for credit) A comprehensive study of performance, technique and repertoire appropriate to music majors and minors. Individual study. Students must audition to be accepted into this course.  
**Prerequisite:** Music, music technology or music education major.  
**Schedule Type:** Private Lesson, Studio  
**Contact Hours:** 1 other  
**Grade Mode:** Standard Letter  
**Attributes:** TAG Arts and Humanities

**MUS 36512 APPLIED MUSIC-OBOE 2,4 Credit Hours**  
 (Repeatable for credit) A comprehensive study of performance, technique and repertoire appropriate to music majors and minors. Individual study. Students must audition to be accepted into this course.  
**Prerequisite:** Music, music technology or music education major.  
**Schedule Type:** Private Lesson, Studio  
**Contact Hours:** 1 other  
**Grade Mode:** Standard Letter  
**Attributes:** TAG Arts and Humanities

**MUS 36513 APPLIED MUSIC-CLARINET 2,4 Credit Hours**  
 (Repeatable for credit) A comprehensive study of performance, technique and repertoire appropriate to music majors and minors. Individual study. Students must audition to be accepted into this course.  
**Prerequisite:** Music, music technology or music education major.  
**Schedule Type:** Private Lesson, Studio  
**Contact Hours:** 1 other  
**Grade Mode:** Standard Letter  
**Attributes:** TAG Arts and Humanities

**MUS 36514 APPLIED MUSIC-BASSOON 2,4 Credit Hours**  
 (Repeatable for credit) A comprehensive study of performance, technique and repertoire appropriate to music majors and minors. Individual study. Students must audition to be accepted into this course.  
**Prerequisite:** Music, music technology or music education major.  
**Schedule Type:** Private Lesson, Studio  
**Contact Hours:** 1 other  
**Grade Mode:** Standard Letter  
**Attributes:** TAG Arts and Humanities

**MUS 36515 APPLIED MUSIC-SAXOPHONE 2,4 Credit Hours**  
 (Repeatable for credit) A comprehensive study of performance, technique and repertoire appropriate to music majors and minors. Individual study. Students must audition to be accepted into this course.  
**Prerequisite:** Music, music technology or music education major.  
**Schedule Type:** Private Lesson, Studio  
**Contact Hours:** 1 other  
**Grade Mode:** Standard Letter  
**Attributes:** TAG Arts and Humanities

**MUS 36611 APPLIED MUSIC-TRUMPET 2,4 Credit Hours**  
 (Repeatable for credit) A comprehensive study of performance, technique and repertoire appropriate to music majors and minors. Individual study. Students must audition to be accepted into this course.  
**Prerequisite:** Music, music technology or music education major.  
**Schedule Type:** Private Lesson, Studio  
**Contact Hours:** 1 other  
**Grade Mode:** Standard Letter  
**Attributes:** TAG Arts and Humanities

**MUS 36612 APPLIED MUSIC-HORN 2,4 Credit Hours**  
 (Repeatable for credit) A comprehensive study of performance, technique and repertoire appropriate to music majors and minors. Individual study. Students must audition to be accepted into this course.  
**Prerequisite:** Music, music technology or music education major.  
**Schedule Type:** Private Lesson, Studio  
**Contact Hours:** 1 other  
**Grade Mode:** Standard Letter  
**Attributes:** TAG Arts and Humanities

**MUS 36613 APPLIED MUSIC-TROMBONE 2,4 Credit Hours**  
 (Repeatable for credit) A comprehensive study of performance, technique and repertoire appropriate to music majors and minors. Individual study. Students must audition to be accepted into this course.  
**Prerequisite:** Music, music technology or music education major.  
**Schedule Type:** Private Lesson, Studio  
**Contact Hours:** 1 other  
**Grade Mode:** Standard Letter  
**Attributes:** TAG Arts and Humanities

**MUS 36614 APPLIED MUSIC-EUPHONIUM 2,4 Credit Hours**  
 (Repeatable for credit) A comprehensive study of performance, technique and repertoire appropriate to music majors and minors. Individual study. Students must audition to be accepted into this course.  
**Prerequisite:** Music, music technology or music education major.  
**Schedule Type:** Private Lesson, Studio  
**Contact Hours:** 1 other  
**Grade Mode:** Standard Letter  
**Attributes:** TAG Arts and Humanities

**MUS 36615 APPLIED MUSIC-TUBA 2,4 Credit Hours**

(Repeatable for credit) A comprehensive study of performance, technique and repertoire appropriate to music majors and minors. Individual study. Students must audition to be accepted into this course.

**Prerequisite:** Music, music technology or music education major.

**Schedule Type:** Private Lesson, Studio

**Contact Hours:** 1 other

**Grade Mode:** Standard Letter

**Attributes:** TAG Arts and Humanities

**MUS 36711 APPLIED MUSIC-PERCUSSION 2,4 Credit Hours**

(Repeatable for credit) A comprehensive study of performance, technique and repertoire appropriate to music majors and minors. Individual study. Students must audition to be accepted into this course.

**Prerequisite:** Music, music technology or music education major.

**Schedule Type:** Private Lesson, Studio

**Contact Hours:** 1 other

**Grade Mode:** Standard Letter

**Attributes:** TAG Arts and Humanities

**MUS 36912 APPLIED MUSIC-GUITAR 2,4 Credit Hours**

(Repeatable for credit) A comprehensive study of performance, technique and repertoire appropriate to music majors and minors. Individual study. Students must audition to be accepted into this course.

**Prerequisite:** Music, music technology or music education major.

**Schedule Type:** Private Lesson, Studio

**Contact Hours:** 1.5-2 other

**Grade Mode:** Standard Letter

**Attributes:** TAG Arts and Humanities

**MUS 36913 APPLIED STUDIO MUSICIANSHIP 2-4 Credit Hours**

(Repeatable for a maximum of 16 credit hours) Development of performance proficiency in contemporary popular music styles appropriate for the performance idiom through individual instruction. Students must audition for the director prior to registration for the course.

**Prerequisite:** Special approval.

**Schedule Type:** Studio

**Contact Hours:** 2-4 other

**Grade Mode:** Standard Letter

**MUS 36914 ELECTRIC GUITAR APPLIED STUDIO MUSICIANSHIP 2-4 Credit Hours**

(Repeatable for credit) Development of performance proficiency in popular music styles. An audition is required.

**Prerequisite:** Music and music technology majors; and special approval.

**Schedule Type:** Private Lesson, Studio

**Contact Hours:** 2-4 other

**Grade Mode:** Standard Letter

**MUS 36915 ELECTRIC BASS APPLIED STUDIO MUSICIANSHIP 2-4 Credit Hours**

(Repeatable for credit) Development of performance proficiency in popular music styles.

**Prerequisite:** Music and music technology majors.

**Schedule Type:** Private Lesson, Studio

**Contact Hours:** 2-4 other

**Grade Mode:** Standard Letter

**MUS 36916 DRUM SET PERCUSSION APPLIED STUDIO MUSICIANSHIP 2,4 Credit Hours**

(Repeatable for credit) Development of performance proficiency in popular music styles. An audition is required.

**Prerequisite:** Music and music technology majors; and special approval.

**Schedule Type:** Private Lesson, Studio

**Contact Hours:** 2-4 other

**Grade Mode:** Standard Letter

**MUS 36917 KEYBOARD APPLIED STUDIO MUSICIANSHIP 2-4 Credit Hours**

(Repeatable for credit) Development of performance proficiency in popular music styles. An audition is required.

**Prerequisite:** Music and music technology majors; and special approval.

**Schedule Type:** Private Lesson, Studio

**Contact Hours:** 2-4 other

**Grade Mode:** Standard Letter

**MUS 36918 CONTEMPORARY VOICE APPLIED STUDIO MUSICIANSHIP 2,4 Credit Hours**

(Repeatable for credit) Development of performance proficiency in popular music styles. An audition is required.

**Prerequisite:** Music and music technology majors; and special approval.

**Schedule Type:** Private Lesson, Studio

**Contact Hours:** 2-4 other

**Grade Mode:** Standard Letter

**MUS 36919 FLUTE APPLIED STUDIO MUSICIANSHIP 2,4 Credit Hours**

(Repeatable for credit) Development of performance proficiency in popular music styles. An audition is required.

**Prerequisite:** Music major or music technology major.

**Schedule Type:** Private Lesson, Studio

**Contact Hours:** 1.5-2 other

**Grade Mode:** Standard Letter

**MUS 36920 CLARINET APPLIED STUDIO MUSICIANSHIP 2,4 Credit Hours**

(Repeatable for credit) Development of performance proficiency in popular music styles. An audition is required.

**Prerequisite:** Music major or music technology major.

**Schedule Type:** Private Lesson, Studio

**Contact Hours:** 1.5-2 other

**Grade Mode:** Standard Letter

**MUS 36921 SAXOPHONE APPLIED STUDIO MUSICIANSHIP 2,4 Credit Hours**

(Repeatable for credit) Development of performance proficiency in popular music styles. An audition is required.

**Prerequisite:** Music major or music technology major.

**Schedule Type:** Private Lesson, Studio

**Contact Hours:** 1.5-2 other

**Grade Mode:** Standard Letter

**MUS 36922 TRUMPET APPLIED STUDIO MUSICIANSHIP 2,4 Credit Hours**

(Repeatable for credit) Development of performance proficiency in popular music styles. An audition is required.

**Prerequisite:** Music major or music technology major.

**Schedule Type:** Private Lesson, Studio

**Contact Hours:** 1.5-2 other

**Grade Mode:** Standard Letter

**MUS 36923 HORN APPLIED STUDIO MUSICIANSHIP 2,4 Credit Hours**

(Repeatable for credit) Development of performance proficiency in popular music styles. An audition is required.

**Prerequisite:** Music major or music technology major.

**Schedule Type:** Private Lesson, Studio

**Contact Hours:** 1.5-2 other

**Grade Mode:** Standard Letter

**MUS 36924 TROMBONE APPLIED STUDIO MUSICIANSHIP 2,4 Credit Hours**

(Repeatable for credit) Development of performance proficiency in popular music styles. An audition is required.

**Prerequisite:** Music major or music technology major.

**Schedule Type:** Private Lesson, Studio

**Contact Hours:** 1.5-2 other

**Grade Mode:** Standard Letter

**MUS 37111 CONTEMPORARY POPULAR PIANO 2 Credit Hours**

Development of keyboard applications in contemporary popular music styles with a focus on music theory.

**Prerequisite:** MUS 17112 with a minimum C grade.

**Corequisite:** MUS 21341.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**MUS 37113 PIANO SKILLS FOR THE CHORAL/GENERAL MUSIC EDUCATOR 2 Credit Hours**

Development of keyboard skills for practical purposes in the classroom and ensemble rehearsals.

**Prerequisite:** MUS 11122 and 36111 with a minimum C grade.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**MUS 37114 PIANO SKILLS FOR THE INSTRUMENTAL MUSIC EDUCATOR 1 Credit Hour**

Development of keyboard skills for practical purposes in the classroom and ensemble rehearsals.

**Prerequisite:** MUS 11122 and MUS 17112 with a minimum C grade or minimum score of 80 on piano placement test.

**Schedule Type:** Laboratory

**Contact Hours:** 2 lab

**Grade Mode:** Standard Letter

**MUS 40092 MUSIC TECHNOLOGY INTERNSHIP (ELR) 2 Credit Hours**

(Repeatable for a maximum of 4 credit hours) On-the-job experience with cooperating business in the field of music technology and preparation of a final report or an applicable project. Students must have a minimum 2.250 major GPA to register for the course.

**Prerequisite:** MUS 31114 or MUS 31222 with a minimum C grade; and Music Technology major; and special approval.

**Schedule Type:** Practical Experience

**Contact Hours:** 8 other

**Grade Mode:** Standard Letter-IP

**Attributes:** Experiential Learning Requirement

**MUS 40295 SPECIAL TOPICS IN MUSIC 1-3 Credit Hours**

(Repeatable for a total of 12 hours) Academic study in areas not offered adequately in the music curriculum. Topic areas are of special interest to the faculty member.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 1-3 lecture

**Grade Mode:** Standard Letter

**MUS 40296 INDEPENDENT STUDY:MUSIC 1-3 Credit Hours**

(Repeatable for credit) Individual investigation in music topics not offered as either regular coursework or beyond the scope of existing music major courses.

**Prerequisite:** Music or music education major; and special approval.

**Schedule Type:** Individual Investigation

**Contact Hours:** 1-3 other

**Grade Mode:** Satisfactory/Unsatisfactory

**MUS 41011 AURAL MUSIC THEORY 1 Credit Hour**

Focus on solfege singing, ear training, and aural analysis in preparation for graduate level music theory coursework.

**Prerequisite:** Special approval.

**Schedule Type:** Laboratory, Lecture, Combined Lecture and Lab

**Contact Hours:** .5 lecture, 1 lab

**Grade Mode:** Standard Letter

**MUS 41012 WRITTEN MUSIC THEORY 1 Credit Hour**

Focus on harmony, counterpoint, and written analysis in preparation for graduate level music theory coursework.

**Prerequisite:** Special approval.

**Schedule Type:** Laboratory, Lecture, Combined Lecture and Lab

**Contact Hours:** .5 lecture, 1 lab

**Grade Mode:** Standard Letter

**MUS 41111 PRACTICUM IN MUSIC THEORY 2 Credit Hours**

Ear training, sight singing and analysis in preparation for graduate level music theory course work.

**Prerequisite:** Permission.

**Schedule Type:** Private Lesson

**Contact Hours:** 2 other

**Grade Mode:** Standard Letter

**MUS 41112 WESTERN MUSIC SINCE 1945 1 Credit Hour**

The study of Western art music since 1945 from historical and theoretical viewpoints. Emphasis on analysis, composition, listening and intellectual understanding.

**Prerequisite:** MUS 21112 and MUS 32212 with a minimum C grade.

**Schedule Type:** Laboratory

**Contact Hours:** 2 lab

**Grade Mode:** Standard Letter

**MUS 41113 MUSIC PRODUCTION V 3 Credit Hours**

Continuation of Music Production IV, create music to accompany a visual medium by learning fundamental to more advanced film scoring techniques.

**Prerequisite:** MUS 31114 with a minimum C grade.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MUS 41114 MUSIC PRODUCTION VI 3 Credit Hours**

Continuation of Music Production V, advanced sequencing, synthesis and audio editing techniques as applied to music production. Focus is on original music.

**Prerequisite:** MUS 41113 with a minimum C grade.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MUS 41131 KEYBOARD HARMONY 3 Credit Hours**

Theoretical skills demonstrated at the keyboard: harmonization of melodies in homophonic style, realization of figured bass, score reading, modulation and improvisation.

**Prerequisite:** MUS 21112 with a minimum C grade.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MUS 41141 SIXTEENTH-CENTURY COUNTERPOINT 3 Credit Hours**

Two-, three -and four part vocal counterpoint in 16th century style.

**Prerequisite:** MUS 21112 with a minimum C grade.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MUS 41151 EIGHTEENTH-CENTURY COUNTERPOINT 3 Credit Hours**

Technique of writing counterpoint in 18th-century style, especially that of J. S. Bach.

**Prerequisite:** MUS 21112 with a minimum C grade.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MUS 41161 ADVANCED MUSICAL ANALYSIS 3 Credit Hours**

A study of recent approaches to tonal and nontonal musical analysis. Emphasis on familiarity with styles, nomenclature and appropriate graphic techniques.

**Prerequisite:** MUS 41112 with a minimum C grade.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MUS 41181 ACOUSTICS AND TECHNOLOGY IN MUSIC 2 Credit Hours**

An introduction to acoustics and psychoacoustics in direct relationship to music, and an introduction to uses of technology in music composition, performance, notation, theory, history and pedagogy.

**Prerequisite:** Music technology major.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**MUS 41211 COMPOSITION 2,4 Credit Hours**

(Repeatable for credit) Study of the materials and techniques of musical composition culminating in original works based upon observable principles of unity and variety.

**Prerequisite:** Composition or music or music education major.

**Schedule Type:** Private Lesson, Studio

**Contact Hours:** 2-4 other

**Grade Mode:** Standard Letter

**MUS 41221 AUDIO RECORDING V 3 Credit Hours**

A continuation of Audio Recording IV. Covered topics include advanced mixing techniques using analog console automation, mixing for surround sound, and fundamentals of audio mastering.

**Prerequisite:** MUS 31222 with a minimum C grade.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MUS 41222 AUDIO RECORDING VI 3 Credit Hours**

A comprehensive record production experience from pre-production through recording, editing, mixing and mastering a complete audio project. Alternatively, students may opt to complete a research-based thesis document.

**Prerequisite:** MUS 41221 with a minimum C grade.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MUS 41299 SENIOR PROJECT: MUSIC COMPOSITION (ELR) 2 Credit Hours**

(Repeatable for credit) The final composition experience prior to graduation: a recital of individually composed works must be presented.

**Prerequisite:** MUS 41211 with a minimum C grade.

**Schedule Type:** Senior Project/Honors Thesis

**Contact Hours:** 2 other

**Grade Mode:** Standard Letter

**Attributes:** Experiential Learning Requirement

**MUS 41321 ORCHESTRATION 3 Credit Hours**

Ranges, tonal possibilities, technical limitations and transpositions for all orchestral instruments. Scoring techniques and analysis of representative instrumental ensemble repertoire.

**Prerequisite:** MUS 21112 with a minimum C grade.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MUS 41341 JAZZ IMPROVISATION I 1 Credit Hour**

(Repeatable for a total of 2 credit hours) A beginner's introduction to Jazz Improvisation. Theory and daily playing will be enhanced by ear training.

**Prerequisite:** Special approval.

**Schedule Type:** Laboratory

**Contact Hours:** 2 other

**Grade Mode:** Standard Letter

**MUS 41342 JAZZ COMPOSING AND ARRANGING 2 Credit Hours**

(Repeatable for credit) Composing and arranging for the large and small jazz ensemble.

**Prerequisite:** MUS 17013 with a minimum C grade.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**MUS 41351 JAZZ IMPROVISATION II 1 Credit Hour**

The presentation of a methodical approach to learning standard Jazz repertoire.

**Prerequisite:** MUS 41341 with a minimum C grade or special approval via audition.

**Schedule Type:** Laboratory

**Contact Hours:** 2 lab

**Grade Mode:** Standard Letter



**MUS 42101 ROOTS OF ROCK 3 Credit Hours**

Roots of Rock is a comprehensive survey of the various genres of American music in the 20th century that contributed to the development of rock music. Important performers in various styles and their contributions to the art form are explored. Pioneers in the fields of recording, artist management and production are studied. Rock music's contributions to the emergence of American culture are viewed in the context of social, racial and political changes. The impact of technological advances in radio, recording and television are also studied.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MUS 42111 AFRICAN MUSIC AND CULTURES 3 Credit Hours**

African music as related to social sciences and humanities. Oral traditions. Use of music recordings, tapes, musical instruments, participation in performance and group work involvement.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MUS 42131 AMERICA'S MUSIC 3 Credit Hours**

Historical survey of music in America from New England psalmody to present-day compositional trends.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MUS 42141 FOLK MUSIC OF EUROPE AND NORTH AMERICA 3 Credit Hours**

(Slashed with MUS 52141) Study of selected music cultures of Eastern and Western Europe, and South, Central and North America.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MUS 42151 ASIAN MUSICS 3 Credit Hours**

Survey of Asian musics. Emphasis on art, folk and popular musics and relationships of these musics to their respective cultures.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MUS 42161 HISTORY OF JAZZ (DIVD) 3 Credit Hours**

The evolution of jazz from its origin to present.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Diversity Domestic

**MUS 42162 JAZZ STYLES AND ANALYSIS 3 Credit Hours**

An approach to jazz history from the perspective of major artists such as: Louis Armstrong, Duke Ellington, Charlie Parker, Miles Davis and John Coltrane.

**Prerequisite:** MUS 41341 with a minimum C grade.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MUS 42165 HISTORY OF CONTEMPORARY POPULAR MUSIC (DIVD) (WIC) 3 Credit Hours**

A study of popular music from the 1950s to the present. Course content will highlight significant artists, examine important style elements, and expose students to a variety of repertoire. This course will emphasize music theory and orchestration to understand and differentiate style. An overview of the history and development of recording technology is an important component of this course.

**Prerequisite:** MUS 21341.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Diversity Domestic, Writing Intensive Course

**MUS 42181 POPULAR WORLD MUSIC (DIVG) 3 Credit Hours**

(Slashed with MUS 52181) A survey of popular world music genres from North America, the Caribbean, South America, Europe, Africa and Asia. Emphasis is on recognizing music literature, prominent artists and music styles, as well as related cultural events. Modern media, especially the Internet, is an integral component of the course.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Diversity Global

**MUS 42221 SYMPHONIC LITERATURE 3 Credit Hours**

Historical and stylistic survey of music for large instrumental ensemble.

**Prerequisite:** MUS 21112 with a minimum C grade.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MUS 42232 PIANO LITERATURE I 2 Credit Hours**

Survey of keyboard suites, sonatas and concerti from the 16th century to the present. Emphasis on performing, listening, and analysis.

**Prerequisite:** Music major.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**MUS 42241 PIANO LITERATURE 3 Credit Hours**

Survey of keyboard and piano literature from the 16th century to the present; study of related forms and styles. Emphasis on performing listening and analysis.

**Prerequisite:** Special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MUS 42242 PIANO LITERATURE II 2 Credit Hours**

Survey of character pieces and variations from the 16th century to the present. Emphasis on performing, listening, and analysis.

**Prerequisite:** Music major.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**MUS 42251 SONG LITERATURE 3 Credit Hours**

A study of vocal literature from the 16th century to the present. Emphasis upon the style, interpretation and presentation of solo materials for all voice classifications.

**Prerequisite:** MUS 22111 with a minimum C grade; and junior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MUS 42261 OPERA LITERATURE 3 Credit Hours**

The historical development of opera from the 17th century to the present. Detailed analysis of representative works.

**Prerequisite:** MUS 22111 with a minimum C grade; and junior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MUS 42271 CHORAL LITERATURE I 3 Credit Hours**

Study of Western European choral literature from approximately 1450 to the early nineteenth century, i.e., Renaissance, Baroque and Classical periods.

**Prerequisite:** MUS 31121 with a minimum C grade; and special approval of instructor.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MUS 42272 CHORAL LITERATURE II 3 Credit Hours**

(Slashed with MUS 52272) Continuation of Choral Literature I. A study of Western European and North American choral music of the early 19th century to the present (roughly 1830 to the present).

**Prerequisite:** MUS 31121 with a minimum C grade; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MUS 42357 STUDENT TEACHING (ELR) 9 Credit Hours**

Provides a 16-week student teaching experience. Off-campus arrangements are handled by the College of Education, Health and Human Services and the School of Music.

**Prerequisite:** Music education major; official valid certification of child safety training, approved basic life support and ALICE training must be presented to the campus office of clinical experience or designated faculty/staff at regional campuses as prerequisite for student teaching; and special approval.

**Corequisite:** MUS 49525.

**Schedule Type:** Practical Experience

**Contact Hours:** 9 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**Attributes:** Experiential Learning Requirement

**MUS 43211 INSTRUMENTAL METHODS II 4 Credit Hours**

Secondary instrumental instruction; program organization, budget, advocacy, assessment, rehearsal planning, literature and teaching techniques. Clinical experience in the teaching of music. Forty (40) field hours required.

**Prerequisite:** Admission to advanced study; and minimum C grade in MUS 23241 and 34111 and 43231; and junior standing.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 3 lecture, 2 lab

**Grade Mode:** Standard Letter

**MUS 43231 INSTRUMENTAL METHODS I 4 Credit Hours**

Elementary and middle school instrumental instruction, program organization, rehearsal teaching techniques, lesson plans, literature, assessment, scheduling, recruiting, modeling and interactive teaching. Clinical experience in the teaching of music. Forty (40) field hours required.

**Prerequisite:** Admission to advanced study; and MUS 23241 with a minimum C grade; and music or music education major; and junior standing.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 3 lecture, 2 lab

**Grade Mode:** Standard Letter

**MUS 43241 MARCHING BAND TECHNIQUES AND LITERATURE 1 Credit Hour**

Organization, administration and techniques of marching bands in the schools. Topics covered include musical styles, literature and show design.

**Prerequisite:** Music education major; and sophomore standing.

**Schedule Type:** Combined Lecture and Lab, Combined Lec/Lab-Open Learning

**Contact Hours:** 1 lab

**Grade Mode:** Standard Letter

**MUS 43242 JAZZ ENSEMBLE TECHNIQUES AND LITERATURE 2 Credit Hours**

Study of the curriculum for the jazz ensemble, including organizational and administrative procedures. Emphasis on music interpretation jazz styles and rehearsal techniques taught through laboratory experience.

**Prerequisite:** Special approval.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**MUS 43243 CONTEMPORARY CHORAL METHODS IN THE SCHOOLS 3 Credit Hours**

(Slashed with MUS 53243) Basic techniques and materials for teaching vocal jazz and musical theatre in the schools. Administration, organization and publicity for productions as well as literature for these performing groups will be explored.

**Prerequisite:** Music education major or music major; and junior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MUS 43245 JAZZ ENSEMBLE TECHNIQUES AND LITERATURE 1 Credit Hour**

(Slashed with MUS 53245) Study of the curriculum for the jazz ensemble, including organizational and administrative procedures. Emphasis on music interpretation of jazz styles and rehearsal techniques taught through laboratory experiences. One hour of field observation is required.

**Prerequisite:** Special approval.

**Schedule Type:** Laboratory

**Contact Hours:** 3 lab

**Grade Mode:** Standard Letter

**MUS 43264 METHODS IN ROCK BAND PERFORMANCE AND PEDAGOGY 3 Credit Hours**

(Slashed with MUS 53264) In this course, students will participate in small rock ensembles and will examine the pedagogy of that type of ensemble. Lectures and demonstrations will include topics such as equipment selection, repertoire selection, and performance techniques. An additional emphasis of this course will be techniques for amplifying rock ensembles. Students will also learn fundamental techniques for recording rock ensembles.

**Prerequisite:** Special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MUS 43265 METHODS IN JAZZ PERFORMANCE AND PEDAGOGY 3 Credit Hours**

(Slashed with MUS 53265) In this course, students will participate in immersive experiences in various aspects of vocal and instrumental jazz: solo performing, ensemble rehearsal techniques, repertoire selection and sources, jazz theory, improvisation, working with a rhythm section, and sound reinforcement. Students will also participate in a workshop ensemble to experience the art form as a member of a jazz ensemble.

**Prerequisite:** Special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MUS 44111 ADVANCED CHORAL CONDUCTING 3 Credit Hours**

Continued development of conducting technique, score reading analysis, styles, interpretation, rehearsal procedure, diction issues as they relate to conducting and pedagogy, and arranging voice-part adaptation for choral ensembles. Six field or clinical hours are required.

**Prerequisite:** Minimum C grade in MUS 21111, MUS 34111 and MUS 37113.

**Schedule Type:** Laboratory, Lecture, Combined Lecture and Lab

**Contact Hours:** 2 lecture, 2 lab

**Grade Mode:** Standard Letter

**MUS 44121 ADVANCED INSTRUMENTAL CONDUCTING 3 Credit Hours**

Continued development of conducting technique, score reading analysis, styles, interpretation, rehearsal procedure and arranging for instrumental organizations. Six field or clinical hours are required.

**Prerequisite:** MUS 21111 and MUS 34111 with a minimum C grade.

**Schedule Type:** Laboratory, Lecture, Combined Lecture and Lab

**Contact Hours:** 2 lecture, 2 lab

**Grade Mode:** Standard Letter

**MUS 44211 INSTRUMENTAL METHODS I 2 Credit Hours**

Elementary and middle school instrumental instruction, program organization, rehearsal teaching techniques, lesson plans, literature, assessment, scheduling, recruiting, modeling and interactive teaching. Clinical experience in the teaching of music. Thirty (30) field hours required.

**Prerequisite:** Admission to advanced study; and MUS 23241 with a minimum C grade; and minimum C grade and 2 credits in MUS 47412, MUS 47512, MUS 47513, MUS 47612 or MUS 47712; and music or music education major; and completion of the music education professional evaluation; and junior standing.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 1 lecture, 3 lab

**Grade Mode:** Standard Letter

**MUS 44212 INSTRUMENTAL METHODS II 2 Credit Hours**

Secondary instrumental instruction; program organization, budget, advocacy, assessment, rehearsal planning, literature and teaching techniques. Clinical experience in the teaching of music. Thirty (30) field hours required.

**Prerequisite:** Admission to advanced study; and minimum C grade in MUS 23241, MUS 34111 and MUS 44211; and minimum C grade in either MUS 47412, MUS 47512, MUS 47513, MUS 47612 or MUS 47712; and completion of the music education professional evaluation; and junior standing.

**Schedule Type:** Laboratory, Lecture, Combined Lecture and Lab

**Contact Hours:** 1 lecture, 3 lab

**Grade Mode:** Standard Letter

**MUS 45111 UNIVERSITY CHOIR 1 Credit Hour**

(Repeatable for credit) Study and performance of choral music from Renaissance through contemporary styles, large and small forms with appropriate accompaniment.

**Prerequisite:** Special approval.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**Attributes:** TAG Arts and Humanities

**MUS 45121 KENT CHORUS 1 Credit Hour**

(Repeatable for credit) Study and performance of choral music from Renaissance through contemporary styles, large and small forms with appropriate accompaniment.

**Prerequisite:** Special approval.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 2.5 other

**Grade Mode:** Standard Letter

**Attributes:** TAG Arts and Humanities

**MUS 45131 OPERA: SINGER-ACTOR TECHNIQUES 1 Credit Hour**

(Repeatable for credit) Training in methods and skills necessary to the art of the singer-actor. Opera performed and prepared via study observation and rehearsal.

**Prerequisite:** Audition.

**Schedule Type:** Studio

**Contact Hours:** 9.5 other

**Grade Mode:** Standard Letter

**MUS 45141 KENT STATE UNIVERSITY CHORALE 1 Credit Hour**

(Repeatable for credit) Study and performance of literature for vocal chamber ensemble from medieval through contemporary styles with appropriate accompaniment sung in the original language. An audition is required before registering for this course.

**Prerequisite:** Special approval.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 4.5 other

**Grade Mode:** Standard Letter

**Attributes:** TAG Arts and Humanities

**MUS 45142 CORO CANTARE 1 Credit Hour**

(Repeatable for credit) (Slashed with MUS 55142) A chorus of tenor, baritone and bass voices. Open to all students regardless of gender identity. Emphasis on music literacy, vocal production instruction, study and performance of music written for tenor, baritone and bass voices. The group performs choral literature spanning many centuries and reflecting diverse cultures. Experience with mixed-voice choirs also occurs. Audition required.

**Prerequisite:** None.

**Schedule Type:** Laboratory

**Contact Hours:** 3 lab

**Grade Mode:** Standard Letter

**Attributes:** TAG Arts and Humanities

**MUS 45143 CANTIQUÉ 1 Credit Hour**

(Repeatable for credit) (Slashed with MUS 55143) A chorus of soprano and alto voices. Open to all students regardless of gender identity. Emphasis on music literacy, vocal production instruction, study and performance of music written for soprano and alto voices. The group performs choral literature spanning many centuries and reflecting diverse cultures. Experience with mixed-voice choirs also occurs. Audition required.

**Prerequisite:** None.

**Schedule Type:** Laboratory

**Contact Hours:** 3 lab

**Grade Mode:** Standard Letter

**Attributes:** TAG Arts and Humanities

**MUS 45151 KENT STATE UNIVERSITY GOSPEL CHOIR 1 Credit Hour**

(Repeatable for credit) Study and performance of choral music in the gospel tradition, including works by contemporary artists. One weekly rehearsal and a minimum of one concert per semester. Off-campus concerts are possible.

**Prerequisite:** None.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 2 other

**Grade Mode:** Standard Letter

**Attributes:** TAG Arts and Humanities

**MUS 45212 ORCHESTRA 1 Credit Hour**

(Slashed with MUS 55212 and MUS 75212) (Repeatable for credit) A select group of instrumentalists assembled for the purpose of studying and performing orchestral music. Open to all KSU students, regardless of major. An audition is required.

**Prerequisite:** None.

**Schedule Type:** Laboratory, Lecture, Combined Lecture and Lab

**Contact Hours:** 6 other

**Grade Mode:** Standard Letter

**Attributes:** TAG Arts and Humanities

**MUS 45221 SYMPHONY BAND 1 Credit Hour**

(Repeatable for credit) Study and performance of music literature for wind band.

**Prerequisite:** Audition.

**Schedule Type:** Studio

**Contact Hours:** 4 other

**Grade Mode:** Standard Letter

**Attributes:** TAG Arts and Humanities

**MUS 45222 MARCHING BAND 1 Credit Hour**

(Repeatable for credit) Study and performance of literature and maneuvers for marching band.

**Prerequisite:** Audition.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 6 other

**Grade Mode:** Standard Letter

**Attributes:** TAG Arts and Humanities

**MUS 45223 WIND ENSEMBLE 1 Credit Hour**

(Slashed with MUS 55223 and MUS 75223) (Repeatable for credit) A select concert ensemble that performs the finest in wind instrument literature with emphasis on major original works. Open to all KSU students, regardless of major. An audition is required.

**Prerequisite:** None.

**Schedule Type:** Laboratory, Lecture, Combined Lecture and Lab

**Contact Hours:** 4 other

**Grade Mode:** Standard Letter

**Attributes:** TAG Arts and Humanities

**MUS 45224 FLASHER BRASS 1 Credit Hour**

(Repeatable for credit) Study and performance of music for Flasher Brass.

**Prerequisite:** Audition.

**Schedule Type:** Studio

**Contact Hours:** 4 other

**Grade Mode:** Standard Letter

**MUS 45225 UNIVERSITY BAND 1 Credit Hour**

(Repeatable for credit) Study and performance of music literature for wind band appropriate for non-music majors, and for music education majors performing on secondary instruments.

**Prerequisite:** None.

**Schedule Type:** Laboratory

**Contact Hours:** 1 lab

**Grade Mode:** Standard Letter

**Attributes:** TAG Arts and Humanities

**MUS 45231 JAZZ ENSEMBLE 1 Credit Hour**

(Repeatable for credit) Study and performance of music literature in the jazz idiom.

**Prerequisite:** Audition.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 7.5 other

**Grade Mode:** Standard Letter

**MUS 45241 TROMBONE ENSEMBLE 1 Credit Hour**

(Repeatable for credit) A thorough study of trombone performance in various sized ensembles. Emphasis on original literature from over four centuries.

**Prerequisite:** Audition.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 2 other

**Grade Mode:** Standard Letter

**MUS 45251 PERCUSSION ENSEMBLE 1 Credit Hour**

(Repeatable for credit) A comprehensive study of percussion performance in various-sized ensembles. Use of keyboard percussion instruments along with drums and accessories. Study of percussion ensemble literature.

**Prerequisite:** Audition.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 5 other

**Grade Mode:** Standard Letter

**MUS 45261 BASSOON ENSEMBLE 1 Credit Hour**

(Repeatable for credit) Study and performance of music for multiple bassoons; emphasis upon refined ensemble playing interpretation leadership skills and arranging techniques.

**Prerequisite:** Permission audition.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 2 other

**Grade Mode:** Standard Letter

**MUS 45271 NEW MUSIC ENSEMBLE 1 Credit Hour**

(Repeatable for credit) Study and performance of 20th- and 21st-century chamber music with an emphasis on works by contemporary composers.

**Prerequisite:** Permission.

**Schedule Type:** Studio

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**MUS 45281 FLUTE ENSEMBLE 1 Credit Hour**

(Repeatable for credit) Study and performance of music for multiple flutes; emphasis upon all aspects of ensemble playing and style considerations will be addressed in both chamber and conducted formats.

**Prerequisite:** Permission audition.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 2 other

**Grade Mode:** Standard Letter

**MUS 45311 CHAMBER MUSIC 1,2 Credit Hour**

(Repeatable for credit) The study and performance of music for small ensembles. Music minors and other non-music majors may take this course with permission.

**Prerequisite:** Music major or music education major.

**Schedule Type:** Studio

**Contact Hours:** 2-4 other

**Grade Mode:** Standard Letter

**MUS 45312 JAZZ COMBO DEVELOPMENT 1 Credit Hour**

(Repeatable for a total of 8 credit hours) The study of Jazz combo performance through rehearsal.

**Prerequisite:** Special approval.

**Schedule Type:** Laboratory

**Contact Hours:** 1 lab

**Grade Mode:** Standard Letter

**MUS 45313 NOVA JAZZ SINGERS 1 Credit Hour**

(Repeatable for credit) The Kent State Nova Jazz Singers is a select vocal jazz ensemble. Repertoire consists of arrangements of American popular music from the 1930s to today, covering all contemporary styles. Nova Jazz Singers is open to all Kent State students by audition.

**Prerequisite:** Special approval.

**Schedule Type:** Studio

**Contact Hours:** 2 other

**Grade Mode:** Standard Letter

**MUS 45321 ACCOMPANYING 1,2 Credit Hour**

(Repeatable for credit) Accompanying instrumental and vocal soloists; piano ensemble works. Credit counted toward ensemble requirements. One hour credit for two hours of assigned accompanying weekly.

**Prerequisite:** Permission.

**Schedule Type:** Private Lesson, Studio

**Contact Hours:** 1-2 other

**Grade Mode:** Standard Letter

**MUS 46111 APPLIED MUSIC-PIANO 2,4 Credit Hours**

(Repeatable for credit) A comprehensive study of performance, technique and repertoire appropriate to music majors and minors. Individual study. Students must audition to be accepted into this course.

**Prerequisite:** Music or music education major.

**Schedule Type:** Private Lesson, Studio

**Contact Hours:** 1.5-2 other

**Grade Mode:** Standard Letter

**MUS 46311 APPLIED MUSIC-VOICE 2,4 Credit Hours**

(Repeatable for credit) A comprehensive study of performance, technique and repertoire appropriate to music majors and minors. Individual study. Students must audition to be accepted into this course.

**Prerequisite:** Music or music education major.

**Schedule Type:** Private Lesson, Studio

**Contact Hours:** 1 other

**Grade Mode:** Standard Letter

**MUS 46411 APPLIED MUSIC-VIOLIN 2,4 Credit Hours**

(Repeatable for credit) A comprehensive study of performance, technique and repertoire appropriate to music majors and minors. Individual study. Students must audition to be accepted into this course.

**Prerequisite:** Music or music education major.

**Schedule Type:** Private Lesson, Studio

**Contact Hours:** 1 other

**Grade Mode:** Standard Letter

**MUS 46412 APPLIED MUSIC-VIOLA 2,4 Credit Hours**

(Repeatable for credit) A comprehensive study of performance, technique and repertoire appropriate to music majors and minors. Individual study. Students must audition to be accepted into this course.

**Prerequisite:** Music or music education major.

**Schedule Type:** Private Lesson, Studio

**Contact Hours:** 1 other

**Grade Mode:** Standard Letter

**MUS 46413 APPLIED MUSIC-CELLO 2,4 Credit Hours**

(Repeatable for credit) A comprehensive study of performance, technique and repertoire appropriate to music majors and minors. Individual study. Students must audition to be accepted into this course.

**Prerequisite:** Music or music education major.

**Schedule Type:** Private Lesson, Studio

**Contact Hours:** 1 other

**Grade Mode:** Standard Letter

**MUS 46414 APPLIED MUSIC-DOUBLE BASS 2,4 Credit Hours**

(Repeatable for credit) A comprehensive study of performance, technique and repertoire appropriate to music majors and minors. Individual study. Students must audition to be accepted into this course.

**Prerequisite:** Music or music education major.

**Schedule Type:** Private Lesson, Studio

**Contact Hours:** 1 other

**Grade Mode:** Standard Letter

**MUS 46511 APPLIED MUSIC-FLUTE 2,4 Credit Hours**

(Repeatable for credit) A comprehensive study of performance, technique and repertoire appropriate to music majors and minors. Individual study. Students must audition to be accepted into this course.

**Prerequisite:** Music or music education major; and special approval.

**Schedule Type:** Private Lesson, Studio

**Contact Hours:** 1 other

**Grade Mode:** Standard Letter



**MUS 46512 APPLIED MUSIC-OBOE 2,4 Credit Hours**

(Repeatable for credit) A comprehensive study of performance, technique and repertoire appropriate to music majors and minors. Individual study. Students must audition to be accepted into this course.

**Prerequisite:** Music or music education major; and special approval.

**Schedule Type:** Private Lesson, Studio

**Contact Hours:** 1 other

**Grade Mode:** Standard Letter

**MUS 46513 APPLIED MUSIC-CLARINET 2,4 Credit Hours**

(Repeatable for credit) A comprehensive study of performance, technique and repertoire appropriate to music majors and minors. Individual study. Students must audition to be accepted into this course.

**Prerequisite:** Music or music education major; and special approval.

**Schedule Type:** Private Lesson, Studio

**Contact Hours:** 1 other

**Grade Mode:** Standard Letter

**MUS 46514 APPLIED MUSIC-BASSOON 2,4 Credit Hours**

(Repeatable for credit) A comprehensive study of performance, technique and repertoire appropriate to music majors and minors. Individual study. Students must audition to be accepted into this course.

**Prerequisite:** Music or music education major; and special approval.

**Schedule Type:** Private Lesson, Studio

**Contact Hours:** 1 other

**Grade Mode:** Standard Letter

**MUS 46515 APPLIED MUSIC-SAXOPHONE 2,4 Credit Hours**

(Repeatable for credit) A comprehensive study of performance, technique and repertoire appropriate to music majors and minors. Individual study. Students must audition to be accepted into this course.

**Prerequisite:** Music or music education major; and special approval.

**Schedule Type:** Private Lesson, Studio

**Contact Hours:** 1 other

**Grade Mode:** Standard Letter

**MUS 46611 APPLIED MUSIC-TRUMPET 2,4 Credit Hours**

(Repeatable for credit) A comprehensive study of performance, technique and repertoire appropriate to music majors and minors. Individual study. Students must audition to be accepted into this course.

**Prerequisite:** Music or music education major.

**Schedule Type:** Private Lesson, Studio

**Contact Hours:** 1 other

**Grade Mode:** Standard Letter

**MUS 46612 APPLIED MUSIC-HORN 2,4 Credit Hours**

(Repeatable for credit) A comprehensive study of performance, technique and repertoire appropriate to music majors and minors. Individual study. Students must audition to be accepted into this course.

**Prerequisite:** Music or music education major.

**Schedule Type:** Private Lesson, Studio

**Contact Hours:** 1 other

**Grade Mode:** Standard Letter

**MUS 46613 APPLIED MUSIC-TROMBONE 2,4 Credit Hours**

(Repeatable for credit) A comprehensive study of performance, technique and repertoire appropriate to music majors and minors. Individual study. Students must audition to be accepted into this course.

**Prerequisite:** Music or music education major.

**Schedule Type:** Private Lesson, Studio

**Contact Hours:** 1 other

**Grade Mode:** Standard Letter

**MUS 46614 APPLIED MUSIC-EUPHONIUM 2,4 Credit Hours**

(Repeatable for credit) A comprehensive study of performance, technique and repertoire appropriate to music majors and minors. Individual study. Students must audition to be accepted into this course.

**Prerequisite:** Music or music education major.

**Schedule Type:** Private Lesson, Studio

**Contact Hours:** 1 other

**Grade Mode:** Standard Letter

**MUS 46615 APPLIED MUSIC-TUBA 2,4 Credit Hours**

(Repeatable for credit) A comprehensive study of performance, technique and repertoire appropriate to music majors and minors. Individual study. Students must audition to be accepted into this course.

**Prerequisite:** Music or music education major.

**Schedule Type:** Private Lesson, Studio

**Contact Hours:** 1 other

**Grade Mode:** Standard Letter

**MUS 46711 APPLIED MUSIC-PERCUSSION 2,4 Credit Hours**

(Repeatable for credit) A comprehensive study of performance, technique and repertoire appropriate to music majors and minors. Individual study. Students must audition to be accepted into this course.

**Prerequisite:** Music or music education major.

**Schedule Type:** Private Lesson, Studio

**Contact Hours:** 1 other

**Grade Mode:** Standard Letter

**MUS 46912 APPLIED MUSIC-GUITAR 2,4 Credit Hours**

(Repeatable for credit) A comprehensive study of performance, technique and repertoire appropriate to music majors and minors. Individual study. Students must audition to be accepted into this course.

**Prerequisite:** Music or music education major.

**Schedule Type:** Private Lesson, Studio

**Contact Hours:** 1 other

**Grade Mode:** Standard Letter

**MUS 47012 CLASS GUITAR I 2 Credit Hours**

Development of basic guitar performance skills.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**MUS 47013 CLASS GUITAR II 2 Credit Hours**

Continued development of acoustic guitar performance skills, study of performance related theory and related topics.

**Prerequisite:** MUS 47012.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**MUS 47311 VOICE CLASS FOR THE INSTRUMENTALIST 1 Credit Hour**

Class instruction in the fundamentals of correct breathing, tone production and diction.

**Prerequisite:** Music or music education major.

**Schedule Type:** Studio

**Contact Hours:** 2 other

**Grade Mode:** Standard Letter

**MUS 47312 VOICE CLASS FOR NON-MUSIC STUDENTS 1 Credit Hour**

Class instruction in the fundamentals of correct breathing, tone production and diction.

**Prerequisite:** None.

**Schedule Type:** Studio

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**MUS 47412 STRING CLASS 1 Credit Hour**

A discussion and practice of basic principles of classroom string playing, instrumental pedagogy, and group process as applied to public school music settings. This course is devoted to string teaching and learning in pre-service music education training.

**Prerequisite:** Music or music education major.

**Schedule Type:** Laboratory

**Contact Hours:** 3 lab

**Grade Mode:** Standard Letter

**MUS 47512 WIND TECHNIQUES - FRENCH HORN AND DOUBLE REEDS 1 Credit Hour**

The study of the fundamental principles of playing and teaching French horn, oboe, and bassoon. Content includes performance skill development, and a survey of materials and method books suitable for class and private instruction. The overall objective is to develop an elementary skill level of performance on the instruments and the pedagogical knowledge necessary to teach the instruments in elementary through secondary levels.

**Prerequisite:** Music or music education major.

**Schedule Type:** Laboratory

**Contact Hours:** 3 lab

**Grade Mode:** Standard Letter

**MUS 47513 WIND TECHNIQUES - FLUTE, CLARINET, SAXOPHONE 1 Credit Hour**

The study of the fundamental principles of playing and teaching flute, clarinet, and saxophone. Content includes performance skill development, and a survey of materials and method books suitable for class and private instruction. The overall objective is to develop an elementary skill level of performance on the instruments and the pedagogical knowledge necessary to teach the instruments in elementary through secondary levels.

**Prerequisite:** Music or music education.

**Schedule Type:** Laboratory

**Contact Hours:** 3 lab

**Grade Mode:** Standard Letter

**MUS 47612 WIND TECHNIQUES - TRUMPET AND LOW BRASS 1 Credit Hour**

The study of the fundamental principles of playing trumpet, trombone, tuba, and euphonium. Content includes performance skill development, and a survey of materials and method books suitable for class and private instruction. The overall objective is to develop an elementary skill level of performance on the instruments and the pedagogical knowledge necessary to teach the instruments in elementary through secondary school levels.

**Prerequisite:** Music or music education major.

**Schedule Type:** Laboratory

**Contact Hours:** 3 lab

**Grade Mode:** Standard Letter

**MUS 47712 PERCUSSION CLASS 1 Credit Hour**

Study of various percussion instruments (mallets, snare drum, timpani and auxiliary) and techniques of performance. Designed for music educator with no previous percussion experience.

**Prerequisite:** Music or music education major.

**Schedule Type:** Laboratory

**Contact Hours:** 3 lab

**Grade Mode:** Standard Letter

**MUS 47811 INSTRUMENT CLASS FOR THE CHORAL/GENERAL MUSIC EDUCATOR 1 Credit Hour**

Class instruction in the basic playing skills of band and orchestral instruments intended to provide familiarity with the common school instruments for the choral-general music major. Ten (10) hours of field experience required.

**Prerequisite:** Music or music education major.

**Schedule Type:** Laboratory

**Contact Hours:** 2 lab

**Grade Mode:** Standard Letter

**MUS 48221 ELEMENTS OF ACCOMPANYING I 2 Credit Hours**

Techniques of accompanying; selected overview of art song literature including Italian, German, French and English songs development of playing at sight skills.

**Prerequisite:** Special approval.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**MUS 48222 ELEMENTS OF ACCOMPANYING II 2 Credit Hours**

Continuation of accompanying techniques including opera accompanying, orchestral reductions and selected overview of literature for solo instrument and piano; continuation of playing-at-sight skills.

**Prerequisite:** MUS 48221 with a minimum C grade.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**MUS 48231 INSTRUMENTAL PEDAGOGY FOR THE CHORAL GENERAL MUSIC EDUCATOR 2 Credit Hours**

Knowledge and techniques for building and maintaining an instrumental music program within the K-12 school setting for the choral general music education major. Ten (10) hours of field experience required.

**Prerequisite:** MUS 47811 with a minimum C grade; and music education major.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**MUS 48232 GENERAL MUSIC PEDAGOGY FOR THE INSTRUMENTALIST 1 Credit Hour**

General music pedagogy techniques for the instrumental music education major. Clinical experiences in the teaching of general music. Ten (10) field hours required.

**Prerequisite:** MUS 37114 with a minimum C grade; and music education major.

**Schedule Type:** Laboratory

**Contact Hours:** 2 lab

**Grade Mode:** Standard Letter

**MUS 48233 CHORAL MUSIC PEDAGOGY FOR THE INSTRUMENTALIST 1 Credit Hour**

Choral pedagogy techniques and choral program development for the instrumental music education major. Clinical experiences in the teaching of choral music. Ten (10) field hours required.

**Prerequisite:** MUS 47311 with a minimum C grade; and music education major.

**Schedule Type:** Laboratory

**Contact Hours:** 2 lab

**Grade Mode:** Standard Letter

**MUS 48241 VOICE PEDAGOGY 2 Credit Hours**

Survey of techniques, practices and materials of teaching voice.

**Prerequisite:** Permission.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**MUS 48251 PEDAGOGY OF MUSIC THEORY 2 Credit Hours**

The principles and techniques of teaching music theory.

**Prerequisite:** MUS 21112 with a minimum C grade; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**MUS 48257 PEDAGOGY-INSTRUMENTAL 2 Credit Hours**

Principles and techniques of instruction. Literature survey. Analysis of instrumental problems and performance practice. Offered as needed for strings woodwinds brass percussion organ, or guitar.

**Prerequisite:** Permission.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**MUS 48311 PIANO PEDAGOGY I 2 Credit Hours**

Individual and group piano teaching including teaching methods and the history of piano pedagogy.

**Prerequisite:** Music or music education major; and junior standing.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**MUS 48312 PIANO PEDAGOGY II 2 Credit Hours**

Individual and group piano teaching. Building an independent studio and career networking.

**Prerequisite:** MUS 48311 with a minimum C grade; and music major.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**MUS 48393 VARIABLE TITLE WORKSHOP IN MUSIC 1-4 Credit Hours**

(Repeatable for credit) Offered for specific professional needs. Emphasis on performance and pedagogical skills.

**Prerequisite:** Permission.

**Schedule Type:** Workshop

**Contact Hours:** 1-4 other

**Grade Mode:** Satisfactory/Unsatisfactory

**MUS 48512 IMPROVISATION 1 Credit Hour**

The development of musical improvisation skills not tied to any particular music style. Students will perform on their own applied instrument(s).

**Prerequisite:** MUS 21111 with a minimum C grade.

**Schedule Type:** Laboratory

**Contact Hours:** 2 lab

**Grade Mode:** Standard Letter

**MUS 48598 MUSIC RESEARCH (ELR) 2,3 Credit Hours**

(Repeated registration permitted) Research or individual investigation for undergraduate students.

**Prerequisite:** Permission.

**Schedule Type:** Research

**Contact Hours:** 2-3 other

**Grade Mode:** Standard Letter-IP

**Attributes:** Experiential Learning Requirement

**MUS 49525 SEMINAR FOR STUDENT TEACHING (ELR) 3 Credit Hours**

(Slashed with MUS 59525) A capstone discussion of principles of music teaching and pragmatic understanding of school music settings. Seminar serves as the companion course to Student Teaching for the purpose of self-observation, reflection, and analysis. Development of edTPA and portfolio.

**Prerequisite:** Music education major; and senior standing; and special approval.

**Corequisite:** MUS 42357.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Experiential Learning Requirement

**MUS 50295 SPECIAL TOPICS IN MUSIC 1-3 Credit Hours**

(Repeatable for credit) Academic study in areas not offered adequately in the music curriculum. Topic areas are of special interest to the faculty member.

**Prerequisite:** Music major; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 1-3 lecture

**Grade Mode:** Standard Letter

**MUS 50296 INDEPENDENT STUDY: MUSIC 1-3 Credit Hours**

(Repeatable for credit) Individual investigation in music topics not offered as either regular coursework or beyond the scope of existing music major courses.

**Prerequisite:** Music major; and graduate standing; and special approval.

**Schedule Type:** Individual Investigation

**Contact Hours:** 1-3 other

**Grade Mode:** Satisfactory/Unsatisfactory

**MUS 51131 KEYBOARD HARMONY 3 Credit Hours**

Theoretical skills demonstrated at the keyboard. Harmonization of melodies in homophonic style, realization of figured bass, score reading, modulation and improvisation.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MUS 51141 16TH-CENTURY COUNTERPOINT 3 Credit Hours**

Two-, three- and four-part vocal counterpoint in 16th century style.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MUS 51151 18TH-CENTURY COUNTERPOINT 3 Credit Hours**

Technique of writing counterpoint in 18th-century style especially that of J. S. Bach.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MUS 51211 COMPOSITION 2 Credit Hours**

(Repeatable for credit) Study of the materials and techniques of composition culminating in original compositions based upon observable principles of unity and variety.

**Prerequisite:** Graduate standing.

**Schedule Type:** Private Lesson, Studio

**Contact Hours:** 2 other

**Grade Mode:** Standard Letter

**MUS 51321 ORCHESTRATION 3 Credit Hours**

Ranges, tonal possibilities, technical limitations and transpositions for all orchestral instruments. Scoring techniques and analysis of representative instrumental ensemble repertoire.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MUS 51341 JAZZ IMPROVISATION 1 Credit Hour**

The development of the art of jazz improvisation through performance and analysis.

**Prerequisite:** Graduate standing.

**Schedule Type:** Laboratory

**Contact Hours:** 2 lab

**Grade Mode:** Standard Letter

**MUS 51342 JAZZ ARRANGING 2 Credit Hours**

Arranging for the large and small jazz ensemble.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MUS 52111 AFRICAN MUSIC AND CULTURES 3 Credit Hours**

African music as related to social sciences and humanities. Oral traditions. Use of music recordings, tapes, musical instruments. Participation in performance and group work involvement.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MUS 52131 AMERICA'S MUSIC 3 Credit Hours**

Historical survey of music in America from New England psalmody to present-day compositional trends.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MUS 52141 FOLK MUSIC OF EUROPE AND NORTH AMERICA 3 Credit Hours**

(Slashed with MUS 42141) Study of selected music cultures of Eastern and Western Europe, and South, Central and North America.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MUS 52151 ASIAN MUSICS 3 Credit Hours**

Survey of Asian musics. Emphasis on art, folk and popular musics and relationships of these musics to their respective cultures.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MUS 52161 HISTORY OF JAZZ 3 Credit Hours**

The evolution of jazz from its origins to the present.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MUS 52171 MUSIC FROM WORLD CULTURES 3 Credit Hours**

Study of selected art, folk and popular music from world cultures with emphasis on listening skills, cultural context, function, organology and technical matters of style.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MUS 52181 POPULAR WORLD MUSIC 3 Credit Hours**

A survey of popular world music genres from North America, the Caribbean, South America, Europe, Africa, and Asia. Emphasis is on recognizing music literature, prominent artists and music styles, as well as related cultural events. Graduate level introduces cultural theory related to popular studies. Modern media, especially the Internet, is an integral component of the course.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MUS 52221 SYMPHONIC LITERATURE 3 Credit Hours**

Historical and stylistic survey of music for large instrumental ensemble.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MUS 52241 PIANO LITERATURE I 2 Credit Hours**

Survey of keyboard and piano suites, sonatas and concerti from the 16th century to the present. Emphasis on performing, listening and analysis.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**MUS 52242 PIANO LITERATURE II 2 Credit Hours**

Survey of character pieces and variations from the 16th century to the present. Emphasis on performing, listening and analysis.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**MUS 52251 SONG LITERATURE 3 Credit Hours**

A study of vocal literature from the 16th century to the present. Emphasis upon the style, interpretation and presentation of solo materials for all voice classifications.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MUS 52261 OPERA LITERATURE 3 Credit Hours**

The historical development of opera from the 17th century to the present. Detailed analysis of representative works.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MUS 52271 CHORAL LITERATURE I 3 Credit Hours**

(Slashed with MUS 42271) Study of Western European choral literature from approximately 1450 to early 19th century (Renaissance, Baroque and Classical periods).

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MUS 52272 CHORAL LITERATURE II 3 Credit Hours**

(Slashed with MUS 42272) Continuation of Choral Literature I. A study of Western European and North American choral music of the early 19th century to the present (roughly 1830 to present).

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MUS 52357 STUDENT TEACHING 9 Credit Hours**

Provides a 16-week student teaching experience. Off-campus arrangements are handled by the College of Education, Health and Human Services and the School of Music and Official valid certification of Child Safety Training, approved Basic Life Support and ALICE. Training must be presented to the campus office of clinical experience as prerequisite for student teaching.

**Prerequisite:** Graduate standing; and special approval.

**Corequisite:** MUS 59525.

**Schedule Type:** Practical Experience

**Contact Hours:** 35 other

**Grade Mode:** Standard Letter

**MUS 53241 MARCHING BAND TECHNIQUES AND LITERATURE 1 Credit Hour**

Organization, administration and techniques of marching bands in the schools. Topics covered include musical styles, literature and show design.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 1 lecture, 1 lab

**Grade Mode:** Standard Letter

**MUS 53242 JAZZ ENSEMBLE TECHNIQUES 2 Credit Hours**

Study of the curriculum for the jazz ensemble, including organizational and administrative procedures. Emphasis on music interpretation, jazz styles and rehearsal techniques taught through laboratory experience.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**MUS 53243 CONTEMPORARY CHORAL METHODS IN THE SCHOOLS 3 Credit Hours**

(Slashed with MUS 43243) Basic techniques and materials for teaching vocal jazz and musical theatre in the schools. Administration, organization and publicity for productions as well as literature for these performing groups will be explored.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MUS 53245 JAZZ ENSEMBLE TECHNIQUES AND LITERATURE 1 Credit Hour**

(Slashed with MUS 43245) Study of the curriculum for the jazz ensemble, including organizational and administrative procedures. Emphasis on music interpretation, jazz styles, and rehearsal techniques taught through laboratory experience. One hour of field observation is required.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Laboratory

**Contact Hours:** 3 lab

**Grade Mode:** Standard Letter

**MUS 53264 METHODS IN ROCK BAND PERFORMANCE AND PEDAGOGY 3 Credit Hours**

(Slashed with MUS 43264) In this course, students will participate in small rock ensembles and will examine the pedagogy of that type of ensemble. Lectures and demonstrations will include topics such as equipment selection, repertoire selection, and performance techniques. An additional emphasis of this course will be techniques for amplifying rock ensembles. Students will also learn fundamental techniques for recording rock ensembles.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MUS 53265 METHODS IN JAZZ PERFORMANCE AND PEDAGOGY 3 Credit Hours**

(Slashed with MUS 43265) In this course, students will participate in immersive experiences in various aspects of vocal and instrumental jazz: solo performing, ensemble rehearsal techniques, repertoire selection and sources, jazz theory, improvisation, working with a rhythm section, and sound reinforcement. Students will also participate in a workshop ensemble to experience the art form as a member of a jazz ensemble.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MUS 55121 KENT CHORUS 1 Credit Hour**

(Repeatable for credit) Study and performance of choral music from Renaissance through contemporary styles, large and small forms with appropriate accompaniment.

**Prerequisite:** Graduate standing.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 2.5 other

**Grade Mode:** Standard Letter



**MUS 55131 OPERA:SINGER-ACTOR TECHNIQUES 1 Credit Hour**  
(Repeatable for credit) A course designed to give the young singing actor practical operatic experience in the performance of portions of or complete operas.

**Prerequisite:** Graduate standing.

**Schedule Type:** Studio

**Contact Hours:** 9.5 other

**Grade Mode:** Standard Letter

**MUS 55141 KENT STATE UNIVERSITY CHORALE 1 Credit Hour**  
(Repeatable for credit) Study and performance of literature for vocal chamber ensemble from medieval through contemporary styles sung in the original language with appropriate accompaniment. An audition is required before registering for this course.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 4.5 other

**Grade Mode:** Standard Letter

**MUS 55142 CORO CANTARE 1 Credit Hour**  
(Repeatable for credit) (Slashed with MUS 54142) A chorus of tenor, baritone and bass voices. Open to all students regardless of gender identity. Emphasis on music literacy, vocal production instruction, study and performance of music written for tenor, baritone and bass voices. The group performs choral literature spanning many centuries and reflecting diverse cultures. Experience with mixed-voice choirs also occurs. Audition required.

**Prerequisite:** Graduate standing.

**Schedule Type:** Laboratory

**Contact Hours:** 3 lab

**Grade Mode:** Standard Letter

**MUS 55143 CANTIQUÉ 1 Credit Hour**  
(Repeatable for credit) (Slashed with MUS 45143) A chorus of soprano and alto voices. Open to all students regardless of gender identity. Emphasis on music literacy, vocal production instruction, study and performance of music written for soprano and alto voices. The group performs choral literature spanning many centuries and reflecting diverse cultures. Experience with mixed-voice choirs also occurs. Audition required.

**Prerequisite:** Graduate standing.

**Schedule Type:** Laboratory

**Contact Hours:** 3 lab

**Grade Mode:** Standard Letter

**MUS 55151 KENT STATE UNIVERSITY GOSPEL CHOIR 1 Credit Hour**  
(Repeatable for credit) Study and performance of choral music in the gospel tradition, including works by contemporary artists. One weekly rehearsal and a minimum of one concert per semester. Off-campus concerts are possible.

**Prerequisite:** Graduate standing.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 2 other

**Grade Mode:** Standard Letter

**MUS 55212 ORCHESTRA 1 Credit Hour**  
(Slashed with MUS 45212 and MUS 75212) (Repeatable for credit) A select group of instrumentalists assembled for the purpose of studying and performing orchestral music. Open to all KSU students, regardless of major. An audition is required.

**Prerequisite:** Graduate standing.

**Schedule Type:** Laboratory, Lecture, Combined Lecture and Lab

**Contact Hours:** 6 other

**Grade Mode:** Standard Letter

**MUS 55221 SYMPHONY BAND 1 Credit Hour**  
(Repeatable for credit) Study and performance of music literature for wind band.

**Prerequisite:** Graduate standing.

**Schedule Type:** Studio

**Contact Hours:** 4 other

**Grade Mode:** Standard Letter

**MUS 55222 MARCHING BAND 1 Credit Hour**  
(Repeatable for a maximum of 6 credit hours) Study and performance of literature and maneuvers for marching band.

**Prerequisite:** Graduate standing.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 6 other

**Grade Mode:** Standard Letter

**MUS 55223 WIND ENSEMBLE 1 Credit Hour**  
(Slashed with MUS 45223 and MUS 75223) (Repeatable for credit) A select concert ensemble that performs the finest in wind instrument literature with emphasis on major original works. An audition is required before registering for this course.

**Prerequisite:** Graduate standing.

**Schedule Type:** Laboratory, Lecture, Combined Lecture and Lab

**Contact Hours:** 4 other

**Grade Mode:** Standard Letter

**MUS 55231 JAZZ ENSEMBLE 1 Credit Hour**  
(Repeatable for credit) Study and performance of music literature in the jazz idiom.

**Prerequisite:** Graduate standing.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 7.5 other

**Grade Mode:** Standard Letter

**MUS 55241 TROMBONE ENSEMBLE 1 Credit Hour**  
(Repeatable for credit) A thorough study of trombone performance in various size ensembles. Emphasis on original literature from over four centuries.

**Prerequisite:** Graduate standing.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 2 other

**Grade Mode:** Standard Letter

**MUS 55251 PERCUSSION ENSEMBLE 1 Credit Hour**  
(Repeatable for credit) A comprehensive study of percussion performance in various size ensembles. Use of keyboard percussion instruments along with drums and accessories. Study of percussion ensemble literature.

**Prerequisite:** Graduate standing.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 5 other

**Grade Mode:** Standard Letter

**MUS 55261 BASSOON ENSEMBLE 1 Credit Hour**  
(Repeatable for credit) Study and performance of music for multiple bassoons; emphasis upon refined ensemble playing, interpretation, leadership skills and arranging techniques.

**Prerequisite:** Graduate standing.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 2 other

**Grade Mode:** Standard Letter

**MUS 55271 NEW MUSIC ENSEMBLE 1 Credit Hour**

(Repeatable for credit) Study and performance of 20th- and 21st-century chamber music with an emphasis on works by contemporary composers.

**Prerequisite:** Graduate standing.

**Schedule Type:** Studio

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**MUS 55281 FLUTE ENSEMBLE 1 Credit Hour**

(Repeatable for credit) Study and performance of music for multiple flutes; emphasis upon all aspects of ensemble playing and style considerations will be addressed in both chamber and conducted formats.

**Prerequisite:** Graduate standing.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 2 other

**Grade Mode:** Standard Letter

**MUS 55311 CHAMBER MUSIC 1,2 Credit Hour**

(Repeatable for credit) The study and performance of music for small ensembles.

**Prerequisite:** Graduate standing.

**Schedule Type:** Studio

**Contact Hours:** 2-4 other

**Grade Mode:** Standard Letter

**MUS 55312 WORLD MUSIC ENSEMBLE 1 Credit Hour**

(Course is repeatable for a maximum of 8 credit hours) The World Music Ensemble teaches performance and cultural etiquette associated with traditional and popular world music genres, e.g., African drumming.

Specific traditions studied include areas of specialization of instructors and or advanced student participants.

**Prerequisite:** Graduate standing.

**Schedule Type:** Studio

**Contact Hours:** 2 other

**Grade Mode:** Standard Letter

**MUS 55321 ACCOMPANYING 1,2 Credit Hour**

(Repeatable for credit) Accompanying instrumental and vocal soloists; piano ensemble works. Credit counted toward ensemble requirements. One hour credit for two hours of assigned accompanying weekly.

**Prerequisite:** Graduate standing.

**Schedule Type:** Private Lesson, Studio

**Contact Hours:** 1-2 other

**Grade Mode:** Standard Letter

**MUS 58241 VOICE PEDAGOGY 2 Credit Hours**

Survey of techniques, practices and materials of teaching voice.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**MUS 58251 PEDAGOGY OF MUSIC THEORY 2 Credit Hours**

(Slashed with MUS 78251) The principles and techniques of teaching music theory.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**MUS 58257 PEDAGOGY-INSTRUMENTAL 2 Credit Hours**

Principles and techniques of instruction. Literature survey. Analysis of instrumental problems and performance practice. Offered as needed for strings, woodwinds, brass, percussion, organ or guitar.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**MUS 58393 VARIABLE TITLE WORKSHOP IN MUSIC 1-4 Credit Hours**

(Repeatable for credit) Offered for specific professional needs. Emphasis on performance and pedagogical skills.

**Prerequisite:** Graduate standing.

**Schedule Type:** Workshop

**Contact Hours:** 1-4 other

**Grade Mode:** Satisfactory/Unsatisfactory

**MUS 58611 ADVANCED SINGER'S DICTION I 1 Credit Hour**

Advanced training and performance practice in phonetics and singing diction for English and Italian vocal repertoire. Emphasis on learning and application of International Phonetic Alphabet symbols.

**Prerequisite:** Graduate standing.

**Schedule Type:** Laboratory

**Contact Hours:** 2 lab

**Grade Mode:** Standard Letter

**MUS 58612 ADVANCED SINGER'S DICTION II 1 Credit Hour**

Advanced training and performance practice in phonetics and singing diction for German and French vocal repertoire. Emphasis on learning and application of International Phonetic Alphabet symbols.

**Prerequisite:** Graduate standing.

**Schedule Type:** Laboratory

**Contact Hours:** 2 lab

**Grade Mode:** Standard Letter

**MUS 59525 SEMINAR FOR STUDENT TEACHING 3 Credit Hours**

(Slashed with MUS 49525) A capstone discussion of principles of music teaching and pragmatic understanding of school music settings. Seminar serves as the companion course to Student Teaching for the purpose of self-observation, reflection, and analysis. Development of edTPA and portfolio.

**Prerequisite:** Graduate standing; and special approval.

**Corequisite:** MUS 52357.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MUS 61121 HISTORY OF MUSIC THEORY 3 Credit Hours**

(Slashed with MUS 71121) A study of the history of Western music theory from the ancient Greeks to the twentieth century.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MUS 61131 SCHENKERIAN ANALYSIS 3 Credit Hours**

An introduction to musical analysis according to the principles expounded by Heinrich Schenker and later exponents of his ideas.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MUS 61170 MUSIC ANALYSIS 3 Credit Hours**

Selected analytical techniques applied to music from the tonal and post-tonal repertoire. Emphasis on the development of harmonic language and overall formal structures.

**Prerequisite:** Music education major; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MUS 61171 ANALYTICAL TECHNIQUES I 2 Credit Hours**

The application of standard analytical techniques to works of various style periods.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MUS 61172 ANALYTICAL TECHNIQUES II 2 Credit Hours**

The application of standard analytical techniques to works of various style periods.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MUS 61173 WORLD MUSIC ANALYSIS 2 Credit Hours**

Analysis of world music traditions. Analyze and articulate knowledge regarding musical elements, such as timbre, tuning, improvisation, sound patterns, compositional form, and performance techniques of music genres studied. Development of listening and transcription skills as they relate to world music.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture, 3 lab

**Grade Mode:** Standard Letter

**MUS 61181 POST-TONAL THEORY 3 Credit Hours**

A study of the analysis, theories, and compositional strategies applied to the music composed after 1900.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MUS 61191 SEMINAR IN MUSIC SINCE 1900 3 Credit Hours**

(Slashed with MUS 71191) (Repeatable for a maximum of 6 credit hours)

Study of analytical techniques and procedures appropriate for the major musical styles of the period. Study of representative compositions through applied analysis. Individual projects in areas of particular interest to the student.

**Prerequisite:** Graduate standing.

**Schedule Type:** Seminar

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**MUS 61211 COMPOSITION 2,4 Credit Hours**

(Repeatable for credit) Original composition using longer forms of music for diverse media including multimedia and electronic composition.

**Prerequisite:** Graduate standing.

**Schedule Type:** Private Lesson, Studio

**Contact Hours:** 1 other

**Grade Mode:** Standard Letter

**MUS 61331 BAND ARRANGING 2 Credit Hours**

Arranging in traditional and contemporary styles for the wind ensemble, concert band and/or marching band.

**Prerequisite:** MUS 51331; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MUS 62227 HISTORY AND LITERATURE OF THE WIND BAND 2 Credit Hours**

Historical survey of wind band literature and the development of the ensemble.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**MUS 62281 SEMINAR IN MUSIC HISTORY AND LITERATURE 3 Credit Hours**

(Repeatable for credit) Selected problems of research in music history and literature. Each student will be responsible for presenting papers for discussion.

**Prerequisite:** Graduate standing.

**Schedule Type:** Seminar

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**MUS 62411 MUSIC BIBLIOGRAPHY AND RESEARCH METHODS 2 Credit Hours**

Study of techniques of music research and creative musical writing including special projects, reports and readings. This course is a hybrid course consisting of both in-class meetings and discussions, as well as online interaction and discussion boards.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**MUS 62412 INTRODUCTION TO ETHNOMUSICOLOGY 3 Credit Hours**

A study of the history, concepts and methods of ethnomusicology, techniques of field research, transcription, analysis and bibliography.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MUS 62413 ADVANCED FIELD AND LAB METHODS IN ETHNOMUSICOLOGY 3 Credit Hours**

Development of professional level research skills in all media of field documentation, transcription, analysis and scholarly writing. Study of current related issues in ethnomusicology.

**Prerequisite:** MUS 62412.

**Schedule Type:** Laboratory

**Contact Hours:** 3 lab

**Grade Mode:** Standard Letter

**MUS 62414 ISSUES AND TRENDS IN ETHNOMUSICOLOGY 2 Credit Hours**

This course studies various issues and trends in the field of ethnomusicology, from its inception to present. The focus centers on intensive discussion of theories, philosophies and paradigms that have dominated the scrutiny of music over the decades and their application in analysis, fieldwork and lab method.

**Prerequisite:** MUS 62412; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MUS 62451 INTRODUCTION TO MUSICOLOGY 3 Credit Hours**

Techniques of music research and creative musical writing including special projects, reports and readings.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MUS 62511 MUSIC HISTORY I 2 Credit Hours**

A study of Western music history from Jewish and medieval Roman practices through Josquin, as well as selected common-practice period applications.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MUS 62521 MUSIC HISTORY II 2 Credit Hours**

A study of Western music history from the Reformation and Counter-Reformation through Bach and Handel.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MUS 62531 MUSIC HISTORY III 2 Credit Hours**

A study of Western music history in the Rococo, Classical, and Romantic periods through Brahms and Wagner.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MUS 62541 MUSIC HISTORY IV 2 Credit Hours**

A study of Western music from Debussy and Mahler through the major trends and composers of the recent past.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MUS 62601 SEMINAR IN MUSICS OF AFRICA 3 Credit Hours**

(Slashed with MUS 72601) Specialized investigations of music cultures of Africa.

**Prerequisite:** Graduate standing.

**Schedule Type:** Seminar

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**MUS 62602 SEMINAR IN MUSICS OF THE AMERICAS 3 Credit Hours**

Specialized investigation of music cultures of the Americas.

**Prerequisite:** Graduate standing.

**Schedule Type:** Seminar

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**MUS 62603 SEMINAR IN MUSICS OF THE MIDDLE EAST 3 Credit Hours**

(Slashed with MUS 72603) Specialized investigation of music cultures of the Middle East.

**Prerequisite:** Graduate standing.

**Schedule Type:** Seminar

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**MUS 62604 SEMINAR IN MUSICS OF EAST ASIA 3 Credit Hours**

Specialized investigation of music cultures of East Asia.

**Prerequisite:** Graduate standing.

**Schedule Type:** Seminar

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**MUS 62606 SEMINAR IN MUSICS OF SOUTHEAST ASIA 3 Credit Hours**

(Slashed with MUS 72606) Specialized investigation of music cultures in Southeast Asia.

**Prerequisite:** Graduate standing.

**Schedule Type:** Seminar

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**MUS 63198 CAPSTONE PROJECT 4 Credit Hours**

(Repeatable for credit) Working under the supervision of a capstone advisor, students demonstrate synthesis of knowledge through the development of curricular project applicable to student's area of teaching.

**Prerequisite:** Graduate standing.

**Schedule Type:** Research

**Contact Hours:** 4 other

**Grade Mode:** Standard Letter-IP

**MUS 63241 INQUIRY IN MUSIC TEACHING I 3 Credit Hours**

Conducting and presenting assessment, evaluation, and research of music teaching and learning with emphasis on quantitative methodologies.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MUS 63242 INQUIRY IN MUSIC TEACHING AND LEARNING II 3 Credit Hours**

Conducting and presenting assessment, evaluation and research of music teaching and learning with emphasis on qualitative methodologies.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MUS 63261 ADVANCED STUDIES IN TEACHING CHORAL MUSIC 3 Credit Hours**

Development of teaching materials, an annotated choral repertory list and instructional strategies for choral music with emphasis on rehearsal procedures and analytical techniques.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MUS 63262 ADVANCED STUDIES IN TEACHING INSTRUMENTAL MUSIC 3 Credit Hours**

Development of teaching materials, an annotated instrumental repertory list and instructional strategies for instrumental music with emphasis on rehearsal procedures and analytical techniques.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MUS 63263 ADVANCED STUDIES IN TEACHING GENERAL MUSIC 3 Credit Hours**

Program development, inclusion, instructional materials and innovative teaching techniques for general music programs.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MUS 63272 LEARNING THEORIES IN MUSIC 3 Credit Hours**

Application of current theories of learning to the teaching and learning of music.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MUS 63273 PSYCHOLOGY OF MUSIC 3 Credit Hours**

The study of music's effect on human behavior including physiological and affective responses. Applications of music psychology to the teaching and learning of music will be explored.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MUS 63274 FOUNDATIONS OF MUSIC EDUCATION 3 Credit Hours**

Study of the field of music education from perspectives of sociology, psychology, philosophy, curriculum, history and comparative curricula.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MUS 63283 RESEARCH IN MUSIC EDUCATION 3 Credit Hours**

Introduction to research techniques in music education including topic selection, data collection analysis and interpretation, and presentation of information in written form.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MUS 63284 HISTORY OF MUSIC EDUCATION 3 Credit Hours**

Study of historical approaches to music education with emphasis on significant people, places and events that have influenced music teaching and learning music.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MUS 63285 PHILOSOPHY OF MUSIC EDUCATION 3 Credit Hours**

(Slashed with MUS 73285) Study of the philosophical foundations of music education with emphasis on the application of aesthetics to teaching and experiencing music.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MUS 63286 SOCIOLOGY OF MUSIC EDUCATION 3 Credit Hours**

Sociology in Music Education focuses on sociocultural issues in music teaching and learning. Students consider contexts of society, background, race, ethnicity, culture, diversity, and pluralism as applicable in music education situations.

**Prerequisite:** Graduate standing.

**Schedule Type:** Seminar

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MUS 64111 CONDUCTING PROJECTS:CHORAL 2,4 Credit Hours**

(Repeatable for credit) Choral conducting techniques, score analysis, rehearsal procedures and study of musical style.

**Prerequisite:** Graduate standing.

**Schedule Type:** Private Lesson

**Contact Hours:** 1 other

**Grade Mode:** Standard Letter

**MUS 64121 CONDUCTING PROJECTS:BAND 2,4 Credit Hours**

(Repeatable for credit) Band conducting techniques, score analysis rehearsal procedures and study of musical style.

**Prerequisite:** Graduate standing.

**Schedule Type:** Private Lesson

**Contact Hours:** 1 other

**Grade Mode:** Standard Letter

**MUS 64131 CONDUCTING PROJECTS:ORCHESTRA 2,4 Credit Hours**

(Repeatable for credit) Orchestra conducting techniques, score analysis, rehearsal procedures and study of musical style.

**Prerequisite:** Graduate standing.

**Schedule Type:** Private Lesson

**Contact Hours:** 1 other

**Grade Mode:** Standard Letter

**MUS 66111 APPLIED MUSIC-GRADUATE PIANO 2,4 Credit Hours**

(Repeatable for credit) A comprehensive study of performance, technique and repertoire appropriate to music majors and minors. Individual study. Students must audition to be accepted into this course.

**Prerequisite:** Music major; and graduate standing.

**Schedule Type:** Private Lesson, Studio

**Contact Hours:** 1.5-2 other

**Grade Mode:** Standard Letter



**MUS 66191 SEMINAR IN ACCOMPANYING 2 Credit Hours**

(Repeatable for credit) Studio performances of standard repertoire for piano and voice or instruments; investigation of other topics relating to the accompanying of the repertoire.

**Prerequisite:** Graduate standing.

**Schedule Type:** Seminar

**Contact Hours:** 2 other

**Grade Mode:** Standard Letter

**MUS 66311 APPLIED MUSIC-GRADUATE VOICE 2,4 Credit Hours**

(Repeatable for credit) A comprehensive study of performance, technique and repertoire appropriate to music majors and minors. Individual study. Students must audition to be accepted into this course.

**Prerequisite:** Music major; and graduate standing; and special approval.

**Schedule Type:** Private Lesson, Studio

**Contact Hours:** 1 other

**Grade Mode:** Standard Letter

**MUS 66411 APPLIED MUSIC-GRADUATE VIOLIN 2,4 Credit Hours**

(Repeatable for credit) A comprehensive study of performance, technique and repertoire appropriate to music majors and minors. Individual study. Students must audition to be accepted into this course.

**Prerequisite:** Music major; and graduate standing; and special approval.

**Schedule Type:** Private Lesson, Studio

**Contact Hours:** 1 other

**Grade Mode:** Standard Letter

**MUS 66412 APPLIED MUSIC-GRADUATE VIOLA 2,4 Credit Hours**

(Repeatable for credit) A comprehensive study of performance, technique and repertoire appropriate to music majors and minors. Individual study. Students must audition to be accepted into this course.

**Prerequisite:** Music major; and graduate standing.

**Schedule Type:** Private Lesson, Studio

**Contact Hours:** 1 other

**Grade Mode:** Standard Letter

**MUS 66413 APPLIED MUSIC-GRADUATE CELLO 2,4 Credit Hours**

(Repeatable for credit) A comprehensive study of performance, technique and repertoire appropriate to music majors and minors. Individual study. Students must audition to be accepted into this course.

**Prerequisite:** Music major; and graduate standing.

**Schedule Type:** Private Lesson, Studio

**Contact Hours:** 1 other

**Grade Mode:** Standard Letter

**MUS 66414 APPLIED MUSIC-GRADUATE DOUBLE BASS 2,4 Credit Hours**

(Repeatable for credit) A comprehensive study of performance, technique and repertoire appropriate to music majors and minors. Individual study. Students must audition to be accepted into this course.

**Prerequisite:** Music major; and graduate standing; and special approval.

**Schedule Type:** Private Lesson, Studio

**Contact Hours:** 1 other

**Grade Mode:** Standard Letter

**MUS 66511 APPLIED MUSIC-GRADUATE FLUTE 2,4 Credit Hours**

(Repeatable for credit) A comprehensive study of performance, technique and repertoire appropriate to music majors and minors. Individual study. Students must audition to be accepted into this course.

**Prerequisite:** Music major; and graduate standing.

**Schedule Type:** Private Lesson, Studio

**Contact Hours:** 1 other

**Grade Mode:** Standard Letter

**MUS 66512 APPLIED MUSIC-GRADUATE OBOE 2,4 Credit Hours**

(Repeatable for credit) A comprehensive study of performance, technique and repertoire appropriate to music majors and minors. Individual study. Students must audition to be accepted into this course.

**Prerequisite:** Music major; and graduate standing.

**Schedule Type:** Private Lesson, Studio

**Contact Hours:** 1 other

**Grade Mode:** Standard Letter

**MUS 66513 APPLIED MUSIC-GRADUATE CLARINET 2,4 Credit Hours**

(Repeatable for credit) A comprehensive study of performance, technique and repertoire appropriate to music majors and minors. Individual study. Students must audition to be accepted into this course.

**Prerequisite:** Music major; and graduate standing.

**Schedule Type:** Private Lesson, Studio

**Contact Hours:** 1 other

**Grade Mode:** Standard Letter

**MUS 66514 APPLIED MUSIC-GRADUATE BASSOON 2,4 Credit Hours**

(Repeatable for credit) A comprehensive study of performance, technique and repertoire appropriate to music majors and minors. Individual study. Students must audition to be accepted into this course.

**Prerequisite:** Music major; and graduate standing.

**Schedule Type:** Private Lesson, Studio

**Contact Hours:** 1 other

**Grade Mode:** Standard Letter

**MUS 66515 APPLIED MUSIC-GRADUATE SAXOPHONE 2,4 Credit Hours**

(Repeatable for credit) A comprehensive study of performance, technique and repertoire appropriate to music majors and minors. Individual study. Students must audition to be accepted into this course.

**Prerequisite:** Music major; and graduate standing.

**Schedule Type:** Private Lesson, Studio

**Contact Hours:** 1 other

**Grade Mode:** Standard Letter

**MUS 66611 APPLIED MUSIC-GRADUATE TRUMPET 2,4 Credit Hours**

(Repeatable for credit) A comprehensive study of performance, technique and repertoire appropriate to music majors and minors. Individual study. Students must audition to be accepted into this course.

**Prerequisite:** Music major; and graduate standing.

**Schedule Type:** Private Lesson, Studio

**Contact Hours:** 1 other

**Grade Mode:** Standard Letter

**MUS 66612 APPLIED MUSIC-GRADUATE HORN 2,4 Credit Hours**

(Repeatable for credit) A comprehensive study of performance, technique and repertoire appropriate to music majors and minors. Individual study. Students must audition to be accepted into this course.

**Prerequisite:** Music major; and graduate standing.

**Schedule Type:** Private Lesson, Studio

**Contact Hours:** 1 other

**Grade Mode:** Standard Letter

**MUS 66613 APPLIED MUSIC-GRADUATE TROMBONE 2,4 Credit Hours**

(Repeatable for credit) A comprehensive study of performance, technique and repertoire appropriate to music majors and minors. Individual study. Students must audition to be accepted into this course.

**Prerequisite:** Music major; and graduate standing.

**Schedule Type:** Private Lesson, Studio

**Contact Hours:** 1 other

**Grade Mode:** Standard Letter

**MUS 66615 APPLIED MUSIC-GRADUATE TUBA 2,4 Credit Hours**

(Repeatable for credit) A comprehensive study of performance, technique and repertoire appropriate to music majors and minors. Individual study. Students must audition to be accepted into this course.

**Prerequisite:** Music major; and graduate standing.

**Schedule Type:** Private Lesson, Studio

**Contact Hours:** 1 other

**Grade Mode:** Standard Letter

**MUS 66711 APPLIED MUSIC-GRADUATE PERCUSSION 2,4 Credit Hours**

(Repeatable for credit) A comprehensive study of performance, technique and repertoire appropriate to music majors and minors. Individual study. Students must audition to be accepted into this course.

**Prerequisite:** Music major; and graduate standing.

**Schedule Type:** Private Lesson, Studio

**Contact Hours:** 1 other

**Grade Mode:** Standard Letter

**MUS 67243 TECHNOLOGY FOR MUSIC TEACHING 3 Credit Hours**

Study of a variety of music software and hardware; students design and implement a project pertaining to their professional interest.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MUS 68199 THESIS I 2-6 Credit Hours**

Thesis students must register for a total of 6 hours, 2 to 6 hours in a single semester distributed over several semesters if desired.

**Prerequisite:** Graduate standing.

**Schedule Type:** Masters Thesis

**Contact Hours:** 2-6 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**MUS 68214 PIANO PEDAGOGY I 2 Credit Hours**

Individual and group piano teaching, including teaching methods and the history of piano pedagogy.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**MUS 68215 PIANO PEDAGOGY II 2 Credit Hours**

Individual and group piano teaching. Building an independent studio and career networking.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**MUS 68299 THESIS II 2 Credit Hours**

Thesis students must continue registration each semester until all degree requirements are met.

**Prerequisite:** MUS 68199; and graduate standing.

**Schedule Type:** Masters Thesis

**Contact Hours:** 2 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**MUS 68598 RESEARCH 1-15 Credit Hours**

(Repeatable for credit) Research or individual investigation for master's level graduate students.

**Prerequisite:** Graduate standing.

**Schedule Type:** Research

**Contact Hours:** 1-15 other

**Grade Mode:** Standard Letter-IP

**MUS 68687 RECITAL 1-3 Credit Hours**

Required of all performance majors and music education majors who choose performance option.

**Prerequisite:** Graduate standing.

**Schedule Type:** Studio

**Contact Hours:** 1-3 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**MUS 68698 ESSAY 1-3 Credit Hours**

(Repeatable for credit) Required of performance majors and music education majors who choose the recital and essay option.

**Prerequisite:** Graduate standing.

**Schedule Type:** Research

**Contact Hours:** 1-3 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**MUS 71121 HISTORY OF MUSIC THEORY 3 Credit Hours**

A study of the history of Western music theory from the ancient Greeks to the twentieth century.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MUS 71131 SCHENKERIAN ANALYSIS 3 Credit Hours**

An introduction to musical analysis according to the principles expounded by Heinrich Schenker and later exponents of his ideas.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MUS 71141 16TH-CENTURY COUNTERPOINT 3 Credit Hours**

Two-, three- and four-part vocal counterpoint in 16th century style.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MUS 71151 18TH-CENTURY COUNTERPOINT 3 Credit Hours**

Technique of writing counterpoint in 18th-century style especially that of J. S. Bach.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MUS 71171 ANALYTICAL TECHNIQUES I 2 Credit Hours**

The application of standard analytical techniques to works of various style periods.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MUS 71172 ANALYTICAL TECHNIQUES II 2 Credit Hours**

The application of standard analytical techniques to works of various style periods.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MUS 71181 POST-TONAL THEORY 3 Credit Hours**

A study of the analysis, theories, and compositional strategies applied to the music composed after 1900.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MUS 71191 SEMINAR IN MUSIC SINCE 1900 3 Credit Hours**

(Slashed with MUS 61191) (Repeatable for a maximum of 6 credit hours) Study of analytical techniques and procedures appropriate for the major musical styles of the period. Study of representative compositions through applied analysis. Individual projects in areas of particular interest to the student.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Seminar

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**MUS 71195 SPECIAL PROJECTS IN THEORETICAL STUDIES 3 Credit Hours**

(Repeatable for credit) Individual and class investigation into specific methods of analysis and their application to music in various styles.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MUS 71331 BAND ARRANGING 2 Credit Hours**

Arranging in traditional and contemporary styles for the wind ensemble, concert band and/or marching band.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MUS 72281 SEMINAR IN MUSIC HISTORY AND LITERATURE 3 Credit Hours**

(Repeatable for credit) Selected problems of research in music history and literature. Each student will be responsible for presenting papers for discussion.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Seminar

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**MUS 72412 INTRODUCTION TO ETHNOMUSICOLOGY 3 Credit Hours**

A study of the history, concepts and methods of ethnomusicology, techniques of field research, transcription analysis and bibliography.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MUS 72413 ADVANCED FIELD AND LAB METHODS IN ETHNOMUSICOLOGY 3 Credit Hours**

Development of professional level research skills in all media of field documentation, transcription analysis and scholarly writing. Study of current related issues in ethnomusicology.

**Prerequisite:** MUS 62412; and doctoral standing.

**Schedule Type:** Laboratory

**Contact Hours:** 3 lab

**Grade Mode:** Standard Letter

**MUS 72451 INTRODUCTION TO MUSICOLOGY 3 Credit Hours**

Techniques of music research and creative musical writing including special projects, reports and readings.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MUS 72511 MUSIC HISTORY I 2 Credit Hours**

A study of Western music history from Jewish and medieval Roman practices through Josquin, as well as selected common-practice period applications.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MUS 72521 MUSIC HISTORY II 2 Credit Hours**

A study of Western music history from the Reformation and Counter-Reformation through Bach and Handel.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MUS 72531 MUSIC HISTORY III 2 Credit Hours**

A study of Western music history in the Rococo, Classical, and Romantic periods through Brahms and Wagner.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MUS 72541 MUSIC HISTORY IV 2 Credit Hours**

A study of Western music from Debussy and Mahler through the major trends and composers of the recent past.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MUS 72601 SEMINAR IN MUSICS OF AFRICA 3 Credit Hours**

(Slashed with MUS 62601) Specialized investigations of music cultures of Africa.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Seminar

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**MUS 72602 SEMINAR IN MUSICS OF THE AMERICAS 3 Credit Hours**

Specialized investigation of music cultures of the Americas.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Seminar

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**MUS 72603 SEMINAR IN MUSICS OF THE MIDDLE EAST 3 Credit Hours**

(Slashed with MUS 62603) Specialized investigation of music cultures of the Middle East.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Seminar

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**MUS 72604 SEMINAR IN MUSICS OF EAST ASIA 3 Credit Hours**

Specialized investigation of music cultures of East Asia.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Seminar

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**MUS 72606 SEMINAR IN MUSICS OF SOUTHEAST ASIA 3 Credit Hours**

(Slashed with MUS 62606) Specialized investigation of music cultures in Southeast Asia.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Seminar

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**MUS 72691 SEMINAR IN ETHNOMUSICOLOGY 3 Credit Hours**

(Repeatable for credit) Specialized topics in ethnomusicology for advanced students.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Seminar

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**MUS 73261 ADVANCED STUDIES IN SECONDARY CHORAL AND GENERAL MUSIC 3 Credit Hours**

Review curriculum in secondary general music and development of innovative teaching materials and strategies. Analytical techniques, rehearsal procedures, repertory suitable for secondary school choral ensembles.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MUS 73262 ADVANCED STUDIES IN INSTRUMENTAL MUSIC 3 Credit Hours**

Study of curriculum, method techniques and materials in school instrumental music education.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MUS 73263 ADVANCED STUDIES IN GENERAL MUSIC FOR CHILDREN 3 Credit Hours**

Study of trends in philosophy, curriculum and program development, instructional materials and innovative teaching techniques for elementary school and early childhood general music.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MUS 73272 LEARNING THEORIES IN MUSIC 3 Credit Hours**

Application of current theories of learning to the teaching and learning of music.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MUS 73273 PSYCHOLOGY OF MUSIC 3 Credit Hours**

The study of music's effect on human behavior including physiological and affective responses. Applications of music psychology to the teaching and learning of music will be explored.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MUS 73274 FOUNDATIONS OF MUSIC EDUCATION 3 Credit Hours**

Study of the influences on the field of music education, including sociology, psychology, philosophy, curriculum and history.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MUS 73283 RESEARCH IN MUSIC EDUCATION 3 Credit Hours**

Introduction to research techniques in music education including topic selection, data collection analysis and interpretation and presentation of information in written form.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MUS 73284 HISTORY OF MUSIC EDUCATION 3 Credit Hours**

Study of historical approaches to music education with emphasis on significant people, places and events that have influenced teaching and learning music.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MUS 73285 PHILOSOPHY OF MUSIC EDUCATION 3 Credit Hours**

(Slashed with MUS 63285) Study of the philosophical foundations of music education with emphasis on the application of aesthetics to teaching and experiencing music.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MUS 73286 SOCIOLOGY OF MUSIC EDUCATION 3 Credit Hours**

Sociology in Music Education focuses on sociocultural issues in music teaching and learning. Students consider contexts of society, background, race, ethnicity, culture, diversity and pluralism as applicable in music education situations.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Seminar

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MUS 73295 SPECIAL TOPICS IN MUSIC EDUCATION 3 Credit Hours**

(Repeatable for credit) Advanced study in selected topics that will vary from semester to semester depending on needs and interests of students.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Seminar

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**MUS 73381 ADVANCED RESEARCH IN MUSIC EDUCATION 3 Credit Hours**

The design, implementation and reporting of research studies that illustrate a variety of methodological and statistical plans for research in music education.

**Prerequisite:** MUS 6/73283; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MUS 74111 CONDUCTING PROJECTS:CHORAL 2,4 Credit Hours**

(Repeatable for credit) Choral conducting techniques, score analysis, rehearsal procedures and study of musical style.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Private Lesson

**Contact Hours:** 1 other

**Grade Mode:** Standard Letter

**MUS 74121 CONDUCTING PROJECTS:BAND 2,4 Credit Hours**

(Repeatable for credit) Band conducting techniques, score analysis, rehearsal procedures and study of musical style.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Private Lesson

**Contact Hours:** 1 other

**Grade Mode:** Standard Letter

**MUS 74131 CONDUCTING PROJECTS:ORCHESTRA 2,4 Credit Hours**

(Repeatable for credit) Orchestra conducting techniques, score analysis rehearsal procedures and study of musical style.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Private Lesson

**Contact Hours:** 1 other

**Grade Mode:** Standard Letter

**MUS 75131 OPERA:SINGER-ACTOR TECHNIQUES 1 Credit Hour**

(Repeatable for credit) A course designed to give the young singing actor practical operatic experience in the performance of portions of or complete operas.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Studio

**Contact Hours:** 9.5 other

**Grade Mode:** Standard Letter

**MUS 75141 KENT STATE UNIVERSITY CHORALE 1 Credit Hour**

(Repeatable for credit) Study and performance of literature for vocal chamber ensemble from medieval through contemporary styles sung in the original language with appropriate accompaniment. An audition is required before registering for this course.

**Prerequisite:** Doctoral standing; and special approval.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 4.5 other

**Grade Mode:** Standard Letter

**MUS 75212 ORCHESTRA 1 Credit Hour**

(Slashed with MUS 45212 and MUS 55212) (Repeatable for credit) A select group of instrumentalists assembled for the purpose of studying and performing orchestral music. Open to all KSU students, regardless of major. An audition is required.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Laboratory, Lecture, Combined Lecture and Lab

**Contact Hours:** 6 other

**Grade Mode:** Standard Letter

**MUS 75223 WIND ENSEMBLE 1 Credit Hour**

(Slashed with MUS 45223 and MUS 55223) (Repeatable for credit) A select concert ensemble that performs the finest in wind instrument literature with emphasis on major original works. Open to all KSU students, regardless of major. An audition is required.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Laboratory, Lecture, Combined Lecture and Lab

**Contact Hours:** 4 other

**Grade Mode:** Standard Letter

**MUS 75231 JAZZ ENSEMBLE 1 Credit Hour**

(Repeatable for credit) Study and performance of music literature in the jazz idiom.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 7.5 other

**Grade Mode:** Standard Letter

**MUS 75271 NEW MUSIC ENSEMBLE 1 Credit Hour**

(Repeatable for credit) Study and performance of 20th- and 21st-century chamber music with an emphasis on works by contemporary composers.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Studio

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**MUS 75311 CHAMBER MUSIC 1,2 Credit Hour**

(Repeatable for credit) (Slashed with MUS 45311 and MUS 55311) The study and performance of music for small ensembles.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Studio

**Contact Hours:** 2-4 other

**Grade Mode:** Standard Letter

**MUS 78251 PEDAGOGY OF MUSIC THEORY 2 Credit Hours**

(Slashed with MUS 58251) The principles and techniques of teaching music theory.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**MUS 78393 VARIABLE TITLE WORKSHOP IN MUSIC 1-4 Credit Hours**

(Repeatable for credit) Offered for specific professional needs. Emphasis on performance and pedagogical skills.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Workshop

**Contact Hours:** 1-4 other

**Grade Mode:** Satisfactory/Unsatisfactory

**MUS 81196 INDIVIDUAL INVESTIGATION IN MUSIC THEORY 1-6 Credit Hours**

(Repeatable for credit) Intensive research or readings on selected topic beyond normal course coverage.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Individual Investigation

**Contact Hours:** 1-6 other

**Grade Mode:** Satisfactory/Unsatisfactory



**MUS 81211 COMPOSITION 2,4 Credit Hours**

(Repeatable for credit) Refinement of compositional techniques culminating in large-scale works for media of student's choice.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Private Lesson, Studio

**Contact Hours:** 1 other

**Grade Mode:** Standard Letter

**MUS 82291 SEMINAR IN MUSICOLOGY 3 Credit Hours**

(Repeatable for credit) Examination into primary sources, treatises and writings in selected areas in Western music. Topics selected range from medieval period to present.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Seminar

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**MUS 82396 INDIVIDUAL INVESTIGATION IN MUSICOLOGY 1-6 Credit Hours**

(Repeatable for credit) Intensive research or readings on selected topic beyond normal course coverage.

**Prerequisite:** Doctoral standing; and special approval.

**Schedule Type:** Individual Investigation

**Contact Hours:** 1-6 other

**Grade Mode:** Satisfactory/Unsatisfactory

**MUS 82696 INDIVIDUAL INVESTIGATION IN ETHNOMUSICOLOGY 1-6 Credit Hours**

(Repeatable for credit) Intensive research or readings on selected topic beyond normal course coverage.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Individual Investigation

**Contact Hours:** 1-6 other

**Grade Mode:** Satisfactory/Unsatisfactory

**MUS 83196 INDIVIDUAL INVESTIGATION IN MUSIC EDUCATION 1-6 Credit Hours**

(Repeatable for credit) Intensive research or readings on selected topic beyond normal course coverage.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Individual Investigation

**Contact Hours:** 1-6 other

**Grade Mode:** Satisfactory/Unsatisfactory

**MUS 86001 SEMINAR IN MUSIC EDUCATION I 3 Credit Hours**

This courses prepares students for doctoral study in music education. Topics include understanding tasks and skills necessary for PhD study in music education, along with navigating this study at Kent State. Students interact in seminar format as part of a cohort of students pursuing the study of music teaching and learning.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Seminar

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MUS 86002 SEMINAR IN MUSIC EDUCATION II 3 Credit Hours**

This doctoral level course is designed to ready students for final activities of PhD study in music education. Goals include preparation for qualifying exams, understanding of the research proposal process, and exploration of advanced research methodologies and protocols necessary to undertake a dissertation and or significant research project.

**Prerequisite:** MUS 86001, CI 87000 and EVAL 75510; and doctoral standing.

**Schedule Type:** Seminar

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MUS 88199 DISSERTATION I 15 Credit Hours**

(Repeatable for credit) Doctoral dissertation for which registration in at least two semesters is required, first of which will be semester in which dissertation work is begun and continuing until the completion of 30 hours.

**Prerequisite:** Pass candidacy examination; and doctoral standing.

**Schedule Type:** Dissertation

**Contact Hours:** 15 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**MUS 88299 DISSERTATION II 15 Credit Hours**

(Repeatable for credit) Continuing registration required of doctoral students who have completed the initial 30 hours of dissertation and continuing until all degree requirements are met.

**Prerequisite:** MUS 88199; and doctoral standing.

**Schedule Type:** Dissertation

**Contact Hours:** 15 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**MUS 88598 RESEARCH 1-15 Credit Hours**

(Repeatable for credit) Research or individual investigation for doctoral students who have not yet passed their candidacy examinations.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Research

**Contact Hours:** 1-15 other

**Grade Mode:** Standard Letter-IP

## National Student Exchange (NSE)

**NSE 10095 NATIONAL STUDENT EXCHANGE (ELR) 0 Credit Hours**

(Repeatable for credit) This is not a real academic course but a means of holding out of state students awaiting their transfer back to Kent. For record keeping only.

**Schedule Type:** Lecture

**Contact Hours:** 0 lecture

**Grade Mode:** Transfer

**Attributes:** Experiential Learning Requirement

## Neuroscience (NEUR)

**NEUR 10100 SEMINAR IN NEUROSCIENCE 1 Credit Hour**

Course provides an overview of the neuroscience field, including areas of neuroscience research, foundational principles in neuroscience, current questions and techniques, career possibilities and examples of research being conducted by neuroscience faculty.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 1 lecture

**Grade Mode:** Satisfactory/Unsatisfactory

**NEUR 30100 NEUROSCIENCE I 3 Credit Hours**

(Crosslisted with BSCI 30100) Course covers basic principles in neuroscience, from the cellular to systems levels. Provides students a basic understanding of how the nervous system is organized, electrophysiology properties of neurons, sensory systems and motor pathways.

**Prerequisite:** BSCI 30140.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**NEUR 30200 NEUROSCIENCE II 3 Credit Hours**

(Cross-listed with BSCI 30200) Course builds off of the principles taught in Neuroscience I by providing more depth and breadth to the functioning of the nervous system. Course provides students a more complete understanding of the neuroanatomy, neurophysiology and neural circuitry involved in sensory processing, motor control and higher order cognitive functioning.

**Prerequisite:** NEUR 30100 or BSCI 30100.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**NEUR 30300 EXPERIMENTAL METHODS IN NEUROSCIENCE 1 Credit Hour**

(Cross-listed with BSCI 30300) Accompanying laboratory for NEUR 30200 or BSCI 30200. Course provides a greater depth of understanding into and hand-on experience with the principles discussed in NEUR 30200 or BSCI 30200. Course provides students a full understanding in the major research techniques used in neuroscience. The major topics covered include: electrophysiology, neuroanatomy, learning and memory, the neuromuscular junction and sensory perception. .

**Prerequisite:** NEUR 30100 or BSCI 30100 with minimum C grade.

**Pre/corequisite:** NEUR 30200 or BSCI 30200.

**Schedule Type:** Laboratory

**Contact Hours:** 3 lab

**Grade Mode:** Standard Letter

**NEUR 40192 INTERNSHIP IN NEUROSCIENCE (ELR) 3-12 Credit Hours**

Work experience and training in neuroscience under the supervision of appropriate personnel in a government agency, nonprofit organization or business.

**Prerequisite:** NEUR 30200; and special approval.

**Schedule Type:** Practical Experience

**Contact Hours:** 9-36 other

**Grade Mode:** Standard Letter

**Attributes:** Experiential Learning Requirement

**NEUR 40195 SPECIAL TOPICS IN NEUROSCIENCE 1-3 Credit Hours**

Topics in neuroscience vary per course offering.

**Prerequisite:** NEUR 30200.

**Schedule Type:** Laboratory, Lecture, Combined Lecture and Lab

**Contact Hours:** 1-3 lecture, 2-6 lab

**Grade Mode:** Standard Letter

**NEUR 40196 INDIVIDUAL INVESTIGATION IN NEUROSCIENCE 1-3 Credit Hours**

Research study under the guidance of a neuroscience faculty member.

**Prerequisite:** NEUR 30200

**Schedule Type:** Laboratory

**Contact Hours:** 3-9 lab

**Grade Mode:** Standard Letter

## Nursing (NURS)

**NURS 10060 INTRODUCTION TO PROFESSIONAL NURSING PRACTICE 3 Credit Hours**

Focus on nursing's development as a discipline and profession. The art and science of nursing including the Scope and Standards of Practice, nursing theory, evidence based practice, and therapeutic communication will be explored.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**NURS 20020 FOUNDATIONS OF ASSESSMENT AND COMMUNICATION IN NURSING 3 Credit Hours**

Individuals are assessed as members of families and community members. Communication in nursing is explored. Students must be admitted to the Professional Nursing Sequence to be able register for this course.

**Prerequisite:** Special approval.

**Schedule Type:** Laboratory, Lecture

**Contact Hours:** 2 lecture, 1 lab

**Grade Mode:** Standard Letter

**NURS 20025 PHARMACOLOGY AND ALTERATIONS IN PHYSIOLOGICAL FUNCTIONING I 3 Credit Hours**

This course provides nursing students with an introduction to the basic principles of pathophysiology and pharmacology. It offers a general understanding of pathophysiologic processes of body systems and the major classes of pharmacotherapeutic agents that are used to treat these pathophysiologic processes. The course focuses on mechanisms of action, effects of medications, pharmacodynamics, pharmacokinetics, as well as principles that guide the administration of medications, dosage, and nursing responsibilities. Age and cultural differences related medication administration will be addressed throughout the course. Students must be admitted to the Professional Nursing Sequence to be able register for this course.

**Prerequisite:** NURS 20020 or NURS 20040 (as a corequisite); and nursing major; and sophomore standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**NURS 20030 FOUNDATIONS OF NURSING INTERVENTIONS 5 Credit Hours**

Foundations of nursing interventions focuses on selected aspects of nursing care to improve the health of individuals within families and groups. Utilizes principles of the interpersonal process, nursing process and professional nursing. Students must be admitted to the Professional Nursing Sequence to be able register for this course.

**Prerequisite:** NURS 20020 with a minimum C grade.

**Schedule Type:** Clinical Laboratory, Laboratory, Lecture

**Contact Hours:** 2 lecture, 3 lab, 6 other

**Grade Mode:** Standard Letter

**NURS 20040 FUNDAMENTALS OF NURSING 8 Credit Hours**

Foundations of Nursing focuses on selected aspects of nursing care to improve the health of individuals within families and communities. Individuals are assessed as members of families and community members. Communication in nursing is explored. Principles of the interpersonal process, nursing process, and professional nursing are utilized. Students must be admitted to the Professional Nursing Sequence to be able register for this course.

**Prerequisite:** CHEM 10050 or CHEM 10055 or CHEM 10060; and BSCI 21010 and BSCI 21020; and BSCI 20021 or BSCI 30171; and special approval.

**Schedule Type:** Clinical Laboratory, Laboratory, Lecture

**Contact Hours:** 4 lecture, 4 lab, 6 other

**Grade Mode:** Standard Letter

**NURS 20950 HUMAN GROWTH AND DEVELOPMENT FOR HEALTH PROFESSIONALS 3 Credit Hours**

Examines theoretical principles and concepts of human growth and development throughout the life cycle applicable to personal and professional activities essential to the accurate assessment of human needs and understanding human behaviors.

**Prerequisite:** PSYC 11762; and sophomore standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** CTAG Nursing/Associate Degree

**NURS 21095 SPECIAL TOPICS IN NURSING 2-4 Credit Hours**

(Repeatable for credit) Scheduled topics of interest to faculty and students.

**Prerequisite:** Sophomore standing.

**Schedule Type:** Lecture

**Contact Hours:** 2-4 lecture

**Grade Mode:** Standard Letter

**NURS 21096 INDIVIDUAL INVESTIGATION IN NURSING 2-4 Credit Hours**

(Repeatable for credit) Designed for the student interested in exploration and research of material not covered in required nursing courses.

**Prerequisite:** Sophomore standing; and special approval.

**Schedule Type:** Individual Investigation

**Contact Hours:** 2-4 other

**Grade Mode:** Standard Letter

**NURS 30010 PARENT AND NEWBORN NURSING 4 Credit Hours**

A study of nursing assessment, need identification and evaluation for individuals and families during the child bearing cycle. Students must be admitted to the Professional Nursing Sequence to be able register for this course. This course integrates concepts to prepare students to deliver culturally congruent and appropriate care.

**Prerequisite:** Minimum C grade in NURS 20020 and NURS 20030 or NURS 20040; and NURS 20950.

**Corequisite:** NURS 30020.

**Schedule Type:** Clinical Laboratory, Laboratory, Lecture

**Contact Hours:** 2 lecture, .8 lab, 4 other

**Grade Mode:** Standard Letter

**NURS 30015 PHARMACOLOGY FOR INFANTS, CHILDREN AND MATERNAL CHILD HEALTH 3 Credit Hours**

(Repeatable for credit) Provides additional information to better understand the complexity of pediatric medications and their safe delivery to pediatric patients of all ages. Also, identifies safe practices for medication administration to mothers and their newborns.

**Pre/corequisite:** NURS 30010 or NURS 30020.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**NURS 30020 HEALTH CARE OF CHILDREN 4 Credit Hours**

Emphasis on nursing process in family-centered care of children including health and developmental promotion and illness and restorative intervention. This course integrates concepts to prepare students to deliver culturally congruent and appropriate care. Students must be admitted to the Professional Nursing Sequence to be able register for this course.

**Prerequisite:** Minimum C grade in NURS 20020 and NURS 20030 or NURS 20040.

**Corequisite:** NURS 30010.

**Schedule Type:** Clinical Laboratory, Laboratory, Lecture

**Contact Hours:** 2 lecture, .8 lab, 4 other

**Grade Mode:** Standard Letter

**NURS 30025 PHARMACOLOGY AND ALTERATIONS IN PHYSIOLOGICAL FUNCTIONING II 3 Credit Hours**

This course is a continuation of the study of pathophysiology and pharmacology for nursing students. It provides a deeper understanding of pathophysiologic processes of body systems, the management of disease states, interpretation of lab values, and the analysis of symptomology and nursing indicators to allow students to initiate appropriate nursing actions as related to pharmacology and pathophysiology. This course explores assessment of therapeutic effects, side effects, and adverse reactions of medications and presents teaching skills needed to enhance patient education and pharmacologic literacy. Students must be admitted to the Professional Nursing Sequence to be able register for this course.

**Prerequisite:** NURS 20025 with a minimum C grade; and nursing major; and sophomore standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**NURS 30035 NURSING OF ADULTS ACROSS THE LIFESPAN 9 Credit Hours**

Emphasizes the care of adults, focused on health promotion, prevention of episodic illness, and maintenance of health status. Gerontologic changes and rehabilitation needs will be addressed. Utilizes nursing process as a foundation to provide nursing care. Course is composed of classroom and clinical experience in the acute, chronic, and rehabilitation care settings. This course integrates concepts to prepare students to deliver culturally congruent and appropriate care. Students must be admitted to the Professional Nursing Sequence to be able register for this course.

**Prerequisite:** Minimum C grade in either NURS 20020 (and NURS 20030) or NURS 20040; and NURS 20950.

**Schedule Type:** Clinical Laboratory, Laboratory, Lecture

**Contact Hours:** 5 lecture, 1.6 lab, 8 other

**Grade Mode:** Standard Letter

**NURS 30050 BASIC NURSING INFORMATICS 2 Credit Hours**

Focuses on the use of nursing informatics for clinical nursing practice, inquiry and communication. This course integrates concepts to prepare students to deliver culturally congruent and appropriate care. Students must be admitted to the Professional Nursing Sequence to be able register for this course.

**Prerequisite:** NURS 20020 with a minimum C grade; and NURS 20030 or NURS 20040 with a minimum C grade.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**NURS 30070 HEALTH CARE POLICY (WIC) 3 Credit Hours**

This course looks at the organizational and societal context in which health care is delivered in the U.S. A historical perspective is developed early in the semester. Building on this, the course explores existing health care policy early in the semester. Building on this, the course explores existing health networks, forms of care delivery, consumer needs and economics and funding. This course integrates concepts to prepare students to deliver culturally congruent and appropriate care. Students must be admitted to the Professional Nursing Sequence to be able register for this course.

**Prerequisite:** NURS 20030 with a minimum C grade.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Writing Intensive Course

**NURS 31010 APPLICATIONS FOR STATISTICAL FINDINGS FOR EVIDENCE BASED PRACTICE 3 Credit Hours**

An introduction to statistical techniques with an emphasis on application in the health care setting.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**NURS 31095 SPECIAL TOPICS IN NURSING 2-4 Credit Hours**

(Repeatable for credit) Scheduled topics of interest to faculty and students.

**Prerequisite:** NURS 20950.

**Schedule Type:** Lecture

**Contact Hours:** 2-4 lecture

**Grade Mode:** Standard Letter

**NURS 31096 INDIVIDUAL INVESTIGATION 2-4 Credit Hours**

(Repeatable for credit) Designed for the student interested in exploration and research of material not covered in required nursing courses.

**Prerequisite:** Special approval.

**Schedule Type:** Individual Investigation

**Contact Hours:** 2-4 other

**Grade Mode:** Standard Letter

**NURS 32060 TRANSCULTURAL NURSING ADVANCING CULTURAL HUMILITY 2 Credit Hours**

This course provides students with the opportunity to explore and understand the role of the transcultural nurse and the significance of cultural humility. Cultural humility serves as the basis for good moral education toward optimal healthcare and culturally competent and effective nursing care. Cultural humility recognizes that growth toward intercultural competence requires a lifelong journey of learning about and experiencing other cultures.

**Prerequisite:** Sophomore standing; and special approval.

**Schedule Type:** Laboratory, Combined Lecture and Lab, Seminar

**Contact Hours:** 1 lecture, 2 lab

**Grade Mode:** Standard Letter

**NURS 35020 TRANSCULTURAL NURSING AND HEALTH CARE 3 Credit Hours**

Provides students with the opportunity to explore and understand the role of the transcultural nurse in the care of patients from multiple and diverse cultural groups.

**Prerequisite:** Junior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**NURS 35030 PATHOPHYSIOLOGY: ANALYSIS AND APPLICATION OF THE NURSING PROCESS 3 Credit Hours**

Enhances the understanding of pathophysiologic processes, the management of disease states, and analysis of related concepts of pharmacology, symptomology and lab interpretation of data for the purpose of identification of priority nursing diagnosis and formulation of care plans appropriate for individual disease processes.

**Prerequisite:** Minimum C grade in NURS 20020, NURS 20030, NURS 30035 and NURS 30060; and nursing major; and junior or senior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**NURS 35040 COMPLEMENTARY AND INTEGRATIVE HEALTH 3 Credit Hours**

(Repeatable for credit) Explores and critically analyzes complementary and integrative health therapies, products, and supplements primarily being used in the United States through the review of evidenced based research and case studies. Synthesizing the exploration of complementary and integrative health practices that are often used in conjunction with traditional Western medicine, students examine the evolving Integrative Health, which has also been called Integrative Medicine, or Complementary and Alternative Medicine.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**NURS 35050 ADVANCED MEDICAL SURGICAL SIMULATION 3 Credit Hours**

Provides students opportunities for critical thinking and decision making through the use of human patient simulation. Theory, content and hands on application advance students' clinical judgement and competence in caring for patients of advancing complexity and those in crisis situations.

**Prerequisite:** NURS 20030 with a minimum C grade.

**Corequisite:** NURS 30010, NURS 30020 and NURS 30035.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 1.5 lecture, 1.5 lab

**Grade Mode:** Standard Letter

**NURS 35060 CRITICAL THINKING AND TEST TAKING SKILLS 2 Credit Hours**

(Repeatable once for credit) The focus of this course is to understand the art of analyzing and evaluating one's thinking. The focus is on how a person thinks and how they can improve their thinking. This course is designed for nursing students seeking to expand their critical thinking ability and improve studying and test taking skills. This course promotes analysis and evaluation of problem solving abilities and requires self-directed, self-disciplined and corrective thinking. The student will explore and develop individual plans with the course faculty person to improve their studying and test taking skills.

**Prerequisite:** Enrolled in the college of nursing.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**NURS 35065 STUDENTS HELPING STUDENTS: A STUDENT MENTORING COURSE 2 Credit Hours**

(Repeatable once for credit) This course is designed for the junior or senior student that has demonstrated a strong understanding of one or more course topics and who desires to function in the role of a mentor or tutor. Throughout the course the student will utilize skills learned in the course while engaging in a mentor tutor relationship with students of a lower class rank in need of mentoring and or tutoring.

**Prerequisite:** Nursing major; and junior and senior standing.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**NURS 35070 NURSING ETHICS IN CLINICAL PRACTICE 3 Credit Hours**

This course focuses on the principles and the theories related to the ethical challenges faced by today's health care professionals. It explores the ethical obligations of the professional nurse's role as a member of the interdisciplinary team, provider, leader and manager of care. This course further emphasizes methods of analyzing and resolving moral dilemmas using clinical decision making skills that can be applied to the clinical setting.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**NURS 35075 INTRODUCTION TO FORENSIC NURSING 3 Credit Hours**

This course will explore the basic concepts and foundations of forensic nursing in both criminal and civil contexts. The different roles and responsibilities of the forensic nurse in the investigation of violence and trauma, as well as the integration of scientific, ethical and legal principles into the acute care and community nursing practice will be examined.

Providing specialized, holistic care of victims and families will be stressed. Students will review victimology, evaluate prevalent population-based health issues and explore forensic nursing interventions.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**NURS 35080 CONTEMPORARY ISSUES IN NURSING PRACTICE AND HEALTH CARE 3 Credit Hours**

This course provides the student an opportunity to focus on diverse contemporary issues in professional Nursing practice and the health care environment. Content promotes critical thinking pertaining to emerging issues in society and how the topics impact practicing nurses, the nursing profession, the delivery of care, and the health-wellness continuum. This course will encompass evidence-based theory, which correlated with the relevant issues and explore avenues for improved health care.

**Prerequisite:** NURS 20950.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**NURS 40003 COMPARATIVE HEALTH CARE: NURSING IN NORTHERN IRELAND 2-3 Credit Hours**

Includes a 2 week intensive study abroad that is conducted in Northern Ireland and includes seminars at the University of Ulster and in select clinical settings. Students examine the cultural, political and economic forces influencing health care and nursing needs; status of nursing education, licensure and practice; and health disparities in Northern Ireland and compare them to the United States. An additional 1 credit hour web-based option is offered the week immediately following the 2 weeks in Northern Ireland for students who choose the 3 credit hour option.

**Prerequisite:** Minimum 2.750 overall GPA; and special approval.

**Schedule Type:** Clinical Laboratory, Seminar

**Contact Hours:** 2-3 other

**Grade Mode:** Standard Letter

**NURS 40005 PROFESSIONAL NURSING DEVELOPMENT 3 Credit Hours**

Course focuses on professional development and the transition from student to graduate nurse, including interviewing techniques and resume preparation. Explores health care economics and policy, political activism, cultural competence, nursing theory, leadership of meetings and managing group dynamics, the future of nursing and health care, nursing practice opportunities, role development, professional nursing organizations, graduate education and specialty certification. This course integrates concepts to prepare students to deliver culturally congruent and appropriate care.

**Prerequisite:** Minimum C grade in NURS 30010 and NURS 30020.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**NURS 40010 NURSING OF THE CRITICALLY ILL 4 Credit Hours**

Holistic approach to assessing, intervening and evaluating critically ill persons. Nursing practice in critical care settings with diverse populations. This course integrates concepts to prepare students to deliver culturally congruent and appropriate care. Students must be admitted to the Professional Nursing Sequence to be able register for this course.

**Prerequisite:** Minimum C grade in NURS 30010, NURS 30020, NURS 30025, NURS 30035 and NURS 30050.

**Schedule Type:** Clinical Laboratory, Laboratory, Lecture

**Contact Hours:** 2 lecture, .8 lab, 4 other

**Grade Mode:** Standard Letter



**NURS 40020 COMMUNITY HEALTH NURSING (DIVG) 4 Credit Hours**

Concepts of community health nursing with emphasis on health promotion and prevention of population-based health problems, locally and globally. This course integrates concepts to prepare students to deliver culturally congruent and appropriate care in the United States and across the world. Students will gain insight into the health problems facing diverse populations. Students will use an epidemiological approach to assess community health and identify subgroups within the community or globally that are at risk for disease, disability, and premature death. Students must be admitted to the Professional Nursing Sequence to be able to register for this course. Students are responsible for their transportation to field experience.

**Prerequisite:** Minimum C grade in NURS 30010, NURS 30020, NURS 30025, NURS 30035 and NURS 30050.

**Corequisite:** NURS 40030.

**Schedule Type:** Clinical Laboratory, Laboratory, Lecture

**Contact Hours:** 2.2 lecture, .4 lab, 4 other

**Grade Mode:** Standard Letter

**Attributes:** Diversity Global

**NURS 40025 PROFESSIONAL AND EVIDENCE-BASED PRACTICE 3 Credit Hours**

This course introduces the student to the process of identifying quality research studies and applying the findings to nursing practice to improve patient outcomes. This course also focuses on professional development and the transition from student to graduate nurse, including interviewing techniques and resume preparation. Explores health care economics and policy, political activism, cultural competence, nursing theory, leadership of meetings and managing group dynamics, the future of nursing and health care, nursing practice opportunities, role development, professional nursing organizations, graduate education and specialty certification. Students have the opportunity to attend a professional nursing organization meeting. Students must be admitted to the Professional Nursing Sequence to be able to register for this course.

**Prerequisite:** NURS 30010 and NURS 30050 with a minimum C grade; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**NURS 40030 PSYCHIATRIC MENTAL HEALTH NURSING 4 Credit Hours**

Focuses on the development of therapeutic relationships with individuals, families and vulnerable populations across the lifespan who have potential and or identified mental health needs. Students will learn and apply theory about mental health and illness and demonstrate psychiatric nursing skills and interventions in caring for persons living with mental illness. This course integrates concepts to prepare students to deliver culturally congruent and appropriate care.

**Prerequisite:** Minimum C grade in NURS 30010, NURS 30020, NURS 30025, NURS 30035 and NURS 30050.

**Schedule Type:** Clinical Laboratory, Laboratory, Lecture

**Contact Hours:** 2 lecture, .4 lab, 4 other

**Grade Mode:** Standard Letter

**NURS 40045 INTEGRATION OF LEADERSHIP AND MANAGEMENT IN NURSING (ELR) 6 Credit Hours**

Course provides students with the knowledge and skills for a beginning leadership position (team leader, module leader and primary nurse), applicable to the care of patients in a health care environment. Course provides students with opportunities to synthesize their nursing knowledge and collaborate with their clinical preceptor in preparation for their professional nursing role. This course integrates concepts to prepare students to deliver culturally congruent and appropriate care. Students must be admitted to the Professional Nursing Sequence to be able to register for this course.

**Prerequisite:** Minimum C grade in NURS 30010, NURS 30020, NURS 30025 and NURS 30035; and senior standing.

**Schedule Type:** Clinical Laboratory, Laboratory, Lecture

**Contact Hours:** 2.75 lecture, .2 lab, 9.5 other

**Grade Mode:** Standard Letter

**Attributes:** Experiential Learning Requirement

**NURS 40075 INFORMATION AND PATIENT CARE TECHNOLOGY FOR HEALTHCARE PROFESSIONALS 3 Credit Hours**

(Cross-listed with RSPC 40075). Focuses on the use of information management and information systems, technology and the human technology interface utilized in healthcare. Students taking this course must be registered nurses.

**Prerequisite:** Nursing major.

**Pre/corequisite:** A minimum C grade in NURS 41000.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**NURS 40085 INQUIRY AND RESEARCH FOR PROFESSIONAL NURSING PRACTICE 3 Credit Hours**

Introduction to clinical inquiry and research for the professional nurse. Theoretical frameworks appropriate to nursing are addressed in relation to research development. A nursing Evidence Based Practice project is developed.

**Pre/corequisite:** MATH 10041 or PSYC 21621; or SOC 32220 and 32221; GEOG 39002, BMRT 21004, MATH 30011, MGMT 24056 and PH 30002; and nursing major.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**NURS 40089 INTERNATIONAL HEALTH CARE POLICES (ELR) (WIC) 3 Credit Hours**

This course looks at the organizational and societal context in which health care is delivered in specific countries worldwide. A historical perspective is developed early in the semester. Building on this, the course explores existing health care policies in a specific population or county. This course further examines existing health networks, forms of care delivery, consumer needs and economics and funding for an identified population.

**Prerequisite:** NURS 20030; and special approval.

**Schedule Type:** Seminar

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Experiential Learning Requirement, Writing Intensive Course

**NURS 40092 NURSING PRACTICE INTERNSHIP (ELR) 1-4 Credit Hours**

Opportunity for professional nursing practice is expanded to a selected population with complex health care needs. Focus is on increasing theoretical knowledge base and using knowledge in complex care situations with patients and their families. Clinical practice will be guided by a clinical preceptor.

**Prerequisite:** NURS 30035 with a minimum C grade; and special approval.

**Schedule Type:** Clinical Laboratory

**Contact Hours:** 3-26 other

**Grade Mode:** Satisfactory/Unsatisfactory

**Attributes:** Experiential Learning Requirement

**NURS 40872 INTRODUCTION TO EVIDENCE BASED PRACTICE 3 Credit Hours**

This course introduces the student to the process of identifying quality research studies and applying the findings to nursing practice to improve patient outcomes. This course integrates concepts to prepare students to deliver culturally congruent and appropriate care. Students must be admitted to the Professional Nursing Sequence to be able register for this course.

**Prerequisite:** NURS 31010 or PH 30002 or PSYC 21621 or SOC 32220; and NURS 20030 and MATH 10041.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**NURS 40873 INTRODUCTION TO EVIDENCE BASED PRACTICE FOR REGISTERED NURSES 3 Credit Hours**

This course introduces the student to the process of identifying quality research studies and applying the findings to nursing practice to improve patient outcomes.

**Pre/corequisite:** NURS 41000.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**NURS 41000 CONCEPTS AND ISSUES FOR PROFESSIONAL NURSING PRACTICE 3 Credit Hours**

Focuses on nursing concepts and theory, nursing process and the history of nursing as it relates to the development of professional nursing and the role of the professional nurse. Students taking this course must be registered nurses.

**Prerequisite:** Nursing major; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**NURS 41095 SPECIAL TOPICS 2-4 Credit Hours**

(Repeatable for credit) Scheduled topics of interest to faculty and students. Topics to be announced when scheduled.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 2-4 lecture

**Grade Mode:** Standard Letter

**NURS 41096 INDIVIDUAL INVESTIGATION 2-4 Credit Hours**

(Repeatable for credit) Designed for the student interested in exploration and research of material not covered in required nursing courses.

**Prerequisite:** None.

**Schedule Type:** Individual Investigation

**Contact Hours:** 4 other

**Grade Mode:** Standard Letter

**NURS 42000 LEADERSHIP AND MANAGEMENT FOR PROFESSIONAL NURSING PRACTICE 3 Credit Hours**

Allows the registered nurse (RN) to utilize personal and professional knowledge and experiences in the study of leadership and management. Facilitates discovery of how nursing and leadership theories define and enhance practice. Assists the RN in analyzing the relationship between nursing, the professional nurse's leadership management roles, and the articulation between nursing research and practice. Students taking the course must be registered nurses.

**Prerequisite:** Nursing major.

**Pre/corequisite:** NURS 41000 with a minimum C grade.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**NURS 43001 HEALTH PROMOTION IN PROFESSIONAL NURSING PRACTICE (ELR) 3 Credit Hours**

This course utilizes the nursing process to explore health promotion and disease prevention across the lifespan and healthcare settings. Theories and models are used to understand health behaviors. The course includes the role of the nurse; national health objectives; health literacy; education; counseling; transcultural considerations; factors affecting health promotion; and specific health promotion strategies. Student must be a registered nurse.

**Prerequisite:** Nursing major; and special approval.

**Schedule Type:** Clinical Laboratory, Lecture

**Contact Hours:** 2 lecture, 3 other

**Grade Mode:** Standard Letter

**Attributes:** Experiential Learning Requirement

**NURS 44001 POPULATION-BASED NURSING FOR PROFESSIONAL NURSING PRACTICE (DIVG) 3 Credit Hours**

Focuses on concepts of population-based nursing practice with emphasis on improving the health of diverse communities and populations, both locally and around the world. Students will gain insight into the health disparities facing diverse populations and cultures in the United States and throughout the world. Students will use an epidemiologic approach to assess community health and identify subgroups within the community or globally that are at risk for disease, disability, and premature death. Students taking this course must be registered nurses.

**Prerequisite:** Nursing major.

**Pre/corequisite:** A minimum C grade in NURS 43001.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Diversity Global

**NURS 44002 GLOBAL HEALTH IMMERSION: GENEVA, SWITZERLAND  
3 Credit Hours**

(Slashed with NURS 54002) Participants explore a number of health concerns, policies, and challenges with global importance and implications. Students will investigate current global health policies and themes, and become familiar with experts in global health including governmental and nongovernmental organizations and multinational agencies. Presentation are given by experts currently working in various regions of the world to solve global problems such as HIV AIDS, post-war trauma, tuberculosis, and non-communicable disease prevention, and environmental contamination.

**Prerequisite:** Nursing major; and sophomore standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**NURS 45000 HEALTH MAINTENANCE AND RESTORATION FOR  
PROFESSIONAL NURSING PRACTICE 3 Credit Hours**

Focuses on issues related to health maintenance and restoration for individuals and families experiencing illness. Students taking this course must be registered nurses.

**Prerequisite:** Nursing major.

**Pre/corequisite:** NURS 43001 with a minimum C grade.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**NURS 45010 HEALTHCARE POLICY AND DELIVERY SYSTEMS 3  
Credit Hours**

Web-based course looks at the organizational and societal context in which health care is delivered in the U.S. An historical perspective is developed early in the semester. Building on this, the course explores existing health care policy and delivery systems, including legislation, the professional disciplines, organizations and health networks, forms of care delivery, consumer needs, and economics and funding. The ability of the current health care system to serve all segments of the U.S. population is examined in depth. Global health needs are examined as a minor theme. Ends with a focus on future forms of delivery that would improve the health care status of the American population as a whole.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**NURS 45020 CRITICAL APPLICATION OF NURSING IN  
PHARMACOLOGY 3 Credit Hours**

Enhances application and analysis of pharmacology in nursing. Explores assessment of therapeutic effect, side effects and adverse reactions of medications. Analyzes pathophysiological symptoms, lab values and nursing indicators in order to allow students to initiate appropriate nursing actions as related to pharmacology. Further, course presents teaching skills needed to enhance patient education and pharmacologic literacy.

**Prerequisite:** NURS 20020 and 20030; and nursing major; and junior or senior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**NURS 45030 PROFESSIONAL LITERACY: SKILLS TO CAREER  
ADVANCEMENT 3 Credit Hours**

Explores career and professional growth through processes such as writing, publishing, presenting and portfolio development.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**NURS 45050 LEGAL ISSUES FOR NURSES 3 Credit Hours**

This online course explores legal concepts and regulations that guide nursing practice and examines concepts, theories, and values applied in decision making that are related to a variety of legal concepts in nursing practice and health concepts.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**NURS 45060 NCLEX REVIEW PREPARATION 3 Credit Hours**

(Repeatable credit) This course reviews nursing concepts and content important for a registered nurse to make safe clinical judgments. Specific study strategies for passing the national licensure exam will be reviewed. Students will practice answering NCLEX style questions. Students must be admitted to the Professional Nursing Sequence to be able register for this course.

**Prerequisite:** NURS 30035; and senior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**NURS 45070 HEALTH CARE NEEDS FOR INDIVIDUALS WITH  
DISABILITIES 3 Credit Hours**

(Slashed with NURS 55070) Healthcare Needs for Individuals with Disabilities focuses on the developmental, physical, and mental needs of the individual with disabilities. Strategies to identify and safely manage the unique needs of individuals with disabilities will be provided. Students must be admitted to the Professional Nursing Sequence to be able register for this course.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**NURS 45075 NCLEX SUCCESS 2 Credit Hours**

This course reviews nursing concepts and content important for a registered nurse to make safe, clinical judgments. Specific study strategies for passing the national licensure exam will be reviewed. Students will practice answering NCLEX style questions. Students must be admitted to the Professional Nursing Sequence to be able register for this course.

**Prerequisite:** Senior standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**NURS 45080 INTERDISCIPLINARY APPROACHES TO PALLIATIVE AND END OF LIFE CARE 3 Credit Hours**

This course focuses on the care of people with a life-limiting illness, their families, and caregivers. Students will explore key concepts related to end of life care including the history and philosophical underpinnings of the hospice movement, spiritual, cultural, psychosocial, physical, legal, ethical and social considerations of dying in a contemporary society.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**NURS 46000 HEALTH CARE POLICY 3 Credit Hours**

Examines the organizational and societal context in which health care is delivered. Existing health care policy and delivery systems are examined, including historical perspectives, legislation, professional disciplines, organizations, health networks, forms of care delivery, consumer needs, economics, and funding. The ability of the current health care system to serve all segments of the U.S. population is examined in depth, as well as future forms of health care delivery. Global perspectives are also studied. Student must be Registered Nurse.

**Pre/corequisite:** NURS 43001.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**NURS 47000 CAPSTONE CLINICAL FOR PROFESSIONAL NURSING PRACTICE (WIC) 3 Credit Hours**

Allows RNs to apply previously learned nursing theory and clinical knowledge with their baccalaureate education in the identification and implementation of a scholarly nursing project. This project utilizes, but is not limited to, previously learned knowledge of leadership skills, principles of teaching/learning, health care policy, change process, group process, team building, collaboration, healthcare policy and delivery systems, quality improvement, evidence-based care, diversity, nursing roles, information technology and systems, population-based care and ethical/legal issues. Students taking this course must be registered nurses.

**Prerequisite:** NURS 40075 and 41000.

**Pre/corequisite:** NURS 40085 and 42000 and 44001 and 45000 and 46000 and nursing major.

**Schedule Type:** Clinical Laboratory, Lecture

**Contact Hours:** 2 lecture, 3 other

**Grade Mode:** Standard Letter

**Attributes:** Writing Intensive Course

**NURS 47001 CAPSTONE FOR PROFESSIONAL NURSING PRACTICE (WIC) 3 Credit Hours**

Allows RNs to apply previously learned nursing theory and clinical knowledge with their baccalaureate education in the identification and implementation of a scholarly nursing project. This project utilizes, but is not limited to, previously learned knowledge of leadership skills, principles of teaching learning, health care policy, change process, group process, team building, collaboration, healthcare policy and delivery systems, quality improvement, evidence-based care, diversity, nursing roles, information technology and systems, population-based care and ethical legal issues. Students taking this course must be registered nurses.

**Prerequisite:** NURS 40075 and NURS 41000.

**Pre/corequisite:** NURS 40085, NURS 42000, NURS 43001, NURS 44001, NURS 45000 and NURS 46000; and nursing major.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Writing Intensive Course

**NURS 50003 COMPARATIVE HEALTH CARE: NURSING IN NORTHERN IRELAND 2-3 Credit Hours**

Includes a 2 week intensive study abroad that is conducted in Northern Ireland and includes seminars at the University of Ulster and in select clinical settings. Students examine the cultural, political and economic forces influencing health care and nursing needs; status of nursing education, licensure and practice; and health disparities in Northern Ireland and compare them to the United states. An additional 1 credit hour web-based option is offered the week immediately following the 2 weeks in Northern Ireland for students who choose the 3 credit hour option.

**Prerequisite:** Minimum 3.000 overall GPA; and graduate standing; and special approval.

**Schedule Type:** Clinical Laboratory, Seminar

**Contact Hours:** 2-3 other

**Grade Mode:** Standard Letter

**NURS 50093 VARIABLE TOPIC WORKSHOP IN NURSING 1-5 Credit Hours**

(Repeatable 15 times for credit) Topics of special interest to intensify knowledge in a particular area of graduate nursing.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Workshop

**Contact Hours:** 1-5 other

**Grade Mode:** Satisfactory/Unsatisfactory

**NURS 54002 GLOBAL HEALTH IMMERSION: GENEVA, SWITZERLAND 3 Credit Hours**

(Slashed with NURS 44002) Participants explore a number of health concerns, policies and challenges with global importance and implications. Students investigate current global health policies and themes, and become familiar with experts in global health including governmental and nongovernmental organizations, and multinational agencies. Presentations are given by experts working in various regions of the world to solve global problems such as HIV/AIDS, post-war trauma, tuberculosis, refugee health, non-communicable disease prevention, and environmental contamination.

**Prerequisite:** Graduate standing in nursing major.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**NURS 55070 HEALTH CARE NEEDS FOR INDIVIDUALS WITH DISABILITIES 3 Credit Hours**

(Slashed with NURS 45070) Healthcare Needs for Individuals with Disabilities focuses on the developmental, physical, and mental needs of the individual with disabilities. Strategies to identify and safely manage the unique needs of individuals with disabilities will be provided.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**NURS 60010 ADVANCED NURSING INFORMATICS 3 Credit Hours**

This course focuses on the role of informatics in advanced nursing practice through examination and application of theories, trends, and policies for generation, storage, retrieval, and analysis of health information. The use of information structures, processes, and technology to support clinical decision-making to achieve patient and healthcare outcomes is examined.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**NURS 60012 ADVANCED MENTAL HEALTH ASSESSMENT AND PSYCHOPATHOLOGY 4 Credit Hours**

Focuses on developing skills related to conducting a holistic mental health assessment and making psychiatric diagnoses. Develops understanding of psychopathology, which is integral to assessment and diagnosis processes.

**Prerequisite:** Nursing major; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 4 lecture

**Grade Mode:** Standard Letter

**NURS 60014 LEADERSHIP IN NURSING AND HEALTH CARE MANAGEMENT 3 Credit Hours**

This course provides an introduction to Nursing and Health Care Management with a focus on the nursing and health care manager competencies and skills. Concepts explored include leadership and management theories as they relate to the functions and responsibilities of nursing and health care administrator roles, analysis of leadership style, and professional competencies for nurses and health care managers and administrators.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**NURS 60015 ADVANCED HEALTH ASSESSMENT 3 Credit Hours**

Advanced Health Assessment comprises foundational skills including the comprehensive history, physical and psychological assessment of the patient. Students apply the diagnostic reasoning process to develop a comprehensive plan of care for patients in a variety of settings.

**Prerequisite:** Graduate standing.

**Pre/corequisite:** NURS 60045.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**NURS 60020 LEGAL AND REGULATORY MANAGEMENT FOR NURSE ADMINISTRATORS 3 Credit Hours**

This course focuses on legal and regulatory structures and issues and explores the impact of these topics on health care environments. Concepts and processes of accreditation, magnet designation, licensure and government regulation will be explored.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**NURS 60024 HEALTH CARE ORGANIZATION STRUCTURE AND BEHAVIOR 3 Credit Hours**

This course focuses on the structures and behaviors common in health care organizations. Historical perspectives, organizational theories, and types and characteristics of health care organizations are explored.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**NURS 60025 HEALTH POLICY AND ADVANCED NURSING PRACTICE 3 Credit Hours**

This course focuses on cost, quality and access as fundamental concepts of health policy. Students will analyze historical and current policy initiatives that influence health care funding and delivery and consider the role of government, organizations, the discipline of nursing, health care leaders, and individuals in setting health policy. The impact of policies on nursing practice, health care delivery, and quality of life for citizens will be explored. Students will examine the concept and practice of advocacy from a nursing perspective.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**NURS 60045 PATHOPHYSIOLOGY FOR THE ADVANCED PRACTICE REGISTERED NURSE 3 Credit Hours**

Provides graduate nursing students with a theoretic foundation of human physiology and the phenomena that produce alterations or pathology in human physiologic function; and an understanding of the basis of disease processes across the lifespan.

**Prerequisite:** Graduate standing in nursing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**NURS 60051 NEUROBIOLOGY AND PSYCHOPHARMACOLOGY OF MAJOR PSYCHIATRIC DISORDERS 4 Credit Hours**

Focuses on the neurobiology of severe and persistent psychiatric disorders. Addresses fundamental principles underlying psychopharmacology related to these disorders.

**Prerequisite:** Graduate standing in the nursing.

**Schedule Type:** Lecture

**Contact Hours:** 4 lecture

**Grade Mode:** Standard Letter



**NURS 60101 THEORETICAL BASIS FOR NURSING PRACTICE I 3 Credit Hours**

This course will be used to study concepts and theories common to all specialty areas of nursing. It provides a firm basis for advanced clinical nursing practice. Progress in theory development for nursing practice is addressed.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**NURS 60110 ADULT GERONTOLOGY CLINICAL NURSE SPECIALIST I 3 Credit Hours**

(Slashed with NURS 80110) Introduction to the clinical nurse specialist role with adults and older adults experiencing common health and illness conditions. The focus is on developing a foundation for evidence-based, patient-centered advanced nursing care, including teaching, coaching and identification and management of symptoms, functional problems and risk behaviors. The scientific and theoretical basis for interventions to achieve clinical outcomes in health promotion and illness care for adults and older persons across the care continuum are explored. This course is taken concurrently with NURS 61192 for clinical application. Pre/ Corequisite: NURS 61192.

**Prerequisite:** NURS 60015; and graduate standing in adult gerontology clinical nurse specialist (AGCN) concentration or adult-gerontology clinical nurse specialist (C844) certificate.

**Corequisite:** NURS 60441 and NURS 60506.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**NURS 60120 ADULT/GERONTOLOGY PRIMARY CARE I 3 Credit Hours**

Introduction to the care of adult-gero primary care patients. Identification and examination of evidence-based primary health care problems, needs, and interventions. The course will focus on biological and behavioral parameters at primary, secondary and tertiary levels of prevention.

**Prerequisite:** NURS 60015 and NURS 60441; and graduate standing.

**Corequisite:** NURS 61292.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**NURS 60125 FAMILY AND ADULT GERONTOLOGY NURSE PRACTITIONER ROLE 1 Credit Hour**

This course continues to develop competencies of the Family and Adult-Gero Nurse Practitioner including requirements for practice, and prescribing. Quality of health care delivery is examined.

**Prerequisite:** NURS 60120 and NURS 61292; and graduate standing.

**Corequisite:** NURS 61892.

**Schedule Type:** Lecture

**Contact Hours:** 1 lecture

**Grade Mode:** Standard Letter

**NURS 60129 ADULT GERONTOLOGY ACUTE CARE NURSE PRACTITIONER I 3 Credit Hours**

Course provides an introduction to the care of the adult and gerontology patient with chronic illness, acute illness and acute exacerbation of chronic illness. Covers identification and examination of evidence-based primary and acute health care problems, needs and interventions.

**Prerequisite:** NURS 60015; and graduate standing.

**Corequisite:** NURS 61092.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**NURS 60130 ADULT GERONTOLOGY ACUTE CARE NURSE PRACTITIONER II 1 Credit Hour**

Course introduces the acute care nurse practitioner student to the role of inpatient medical management, utilizing evidence-based practice and working with interdisciplinary team members. The course provides students with an experience caring for the under-served in the hospital and-or community setting. Additionally, students participate in a simulation workshop, demonstrating common inpatient procedures. Students are introduced to the role of the nurse practitioner, the professional responsibilities and stewardship.

**Prerequisite:** NURS 60129 and NURS 60441 and NURS 61092; and graduate standing.

**Corequisite:** NURS 61392.

**Schedule Type:** Lecture

**Contact Hours:** 1 lecture

**Grade Mode:** Standard Letter

**NURS 60140 WOMEN'S HEALTH CARE NURSE PRACTITIONER I 2 Credit Hours**

Development of foundational basis for competent clinical practice in women's health is the basis for this course. Emphasis is placed on the menstrual cycle, fertility control, and normal and abnormal gynecological conditions. Course also emphasizes the coordination of care needed within the clinical setting through the diagnostic, planning and evaluational components pertinent to clinical practice.

**Prerequisite:** Graduate standing.

**Pre/corequisite:** NURS 60015.

**Corequisite:** NURS 61492.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**NURS 60151 INDIVIDUAL PSYCHOTHERAPY 3 Credit Hours**

Basic elements related to individual psychotherapy, as well as various theoretical approaches to individual psychotherapy are examined.

**Prerequisite:** NURS 60012 and NURS 60051; and nursing major; and graduate standing.

**Corequisite:** NURS 61592.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**NURS 60160 PRIMARY CARE PEDIATRICS 3 Credit Hours**

Addresses the care of pediatric patients in a primary care setting. Focus is on the acute illnesses and management of age and developmentally appropriate anticipatory guidance for infants and children.

**Prerequisite:** NURS 60015 and NURS 60441; and graduate standing.

**Corequisite:** NURS 61692.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**NURS 60170 PEDIATRIC ASSESSMENT FOR ADVANCED PRACTICE NURSE 3 Credit Hours**

Initial pediatric assessment course emphasizes primary care of the infants, children and teens with a holistic approach to well child development, health promotion, illness prevention, and management of developmental challenges with a family centered approach.

**Prerequisite:** Graduate standing.

**Pre/corequisite:** NURS 60015.

**Corequisite:** NURS 61792.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**NURS 60199 THESIS I 2-6 Credit Hours**

Thesis students must register for a total of 6 credit hours, 2 to 6 hours in a single semester distributed over several semesters if desired.

Guidelines are established by the College of Nursing.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Masters Thesis

**Contact Hours:** 2-6 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**NURS 60210 ADULT GERONTOLOGY CLINICAL NURSE SPECIALIST II 3 Credit Hours**

Application and further development of the clinical nurse specialist (CNS) role introduced in NURS 60110, with continued emphasis on direct care competencies for adults and older adults experiencing common health and illness conditions in a variety of settings. Evaluation of care outcomes including quality and safety are examined. This course is taken concurrently with NURS 62192 for clinical application.

**Prerequisite:** NURS 60110 and NURS 61192; and graduate standing.

**Pre/corequisite:** NURS 60403.

**Corequisite:** NURS 62192.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**NURS 60220 PRIMARY CARE II: CHRONICALLY ILL ADULTS 3 Credit Hours**

Focus of this course is to establish a knowledge base of appropriate collaboration and consultation within a multidisciplinary approach to maximize the effectiveness of health care systems and community services in the health care of adults.

**Prerequisite:** NURS 60125 and NURS 61892; and graduate standing.

**Corequisite:** NURS 62292.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**NURS 60230 ADULT GERONTOLOGY ACUTE CARE NURSE PRACTITIONER III 4 Credit Hours**

Students apply techniques for critical care evaluation and treatment for the adult gerontology patient, specifically, in the acute care setting. Students are instructed about pharmacotherapeutic and non-pharmacotherapeutic treatment for acute, acute on chronic and chronic illness. This is accomplished via classroom lecture, case studies and simulation case studies.

**Prerequisite:** NURS 60130 and NURS 61392; and graduate standing.

**Corequisite:** NURS 62392.

**Schedule Type:** Lecture

**Contact Hours:** 4 lecture

**Grade Mode:** Standard Letter

**NURS 60240 WOMEN'S HEALTH CARE NURSE PRACTITIONER II 2 Credit Hours**

The primary purpose of Women's Health Care Nurse Practitioner II is the application of evidence-based practice and research by advanced practice nurses in the promotion of health and wellness of women during the reproductive years. The emphasis is on normal pregnancy focusing on prevention and health promotion as well as the management of deviations from normal. Clinical assessment skills, including diagnosis, nursing intervention, treatment, and evaluation, will be emphasized and the student is expected to concentrate efforts in attainment and safe execution of skills pertinent to the women during the reproductive years.

**Prerequisite:** NURS 60140, NURS 61492 and NURS 60441; and graduate standing.

**Corequisite:** NURS 62492.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**NURS 60251 FAMILY AND GROUP PSYCHOTHERAPY 3 Credit Hours**

Study of theoretical approaches to advanced psychiatric mental health nursing practice with individuals who are experiencing identified mental health problems. Basic elements related to family and group psychotherapy are examined.

**Prerequisite:** NURS 62592; and graduate standing.

**Corequisite:** NURS 63592.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**NURS 60270 PEDIATRIC NURSE PRACTITIONER I 3 Credit Hours**

Emphasizes the development of competent advanced practice nursing skills and comprehensive knowledge of acute physical and psychosocial illnesses in children including diagnoses, management and evaluation in primary care.

**Prerequisite:** NURS 60015, NURS 60170 and NURS 61792; and graduate standing.

**Corequisite:** NURS 62792.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**NURS 60299 THESIS II 2 Credit Hours**

Thesis students must continue registration each semester until all degree requirements are met.

**Prerequisite:** NURS 60199; and graduate standing; and special approval.

**Schedule Type:** Masters Thesis

**Contact Hours:** 2 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**NURS 60310 ADULT GERONTOLOGY CLINICAL NURSE SPECIALIST III**  
**3 Credit Hours**

Development of clinical nurse specialist (CNS) competencies in the organizational sphere of influence, including analysis of health promotion and care delivery models and their impact on patient health and organizational outcomes. CNS leadership competencies involving consultation, mentoring, coaching, role modeling and education with the interdisciplinary health care team are developed. Strategies for developing and evaluating programs of care based on analysis of professional standards, clinical outcomes and cost effectiveness are addressed. This course is taken concurrently with NURS63192 for clinical application.

**Prerequisite:** NURS 60210 and NURS 62192.

**Corequisite:** NURS 63192.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**NURS 60315 BUDGETARY AND FISCAL MANAGEMENT FOR NURSES**  
**3 Credit Hours**

Examines management of fiscal resources in nursing service settings.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**NURS 60320 ADULT/GERONTOLOGY PRIMARY CARE III** **3 Credit Hours**

Synthesizes an understanding of the transition to the professional role of the primary care nurse practitioner. Integration of practice, theory, leadership and evidence-based practice will all be applied to primary care.

**Prerequisite:** NURS 60220 and 62292; and graduate standing.

**Corequisite:** NURS 63692.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**NURS 60325 PRIMARY CARE: FAMILY HEALTH AND CHRONIC ILLNESS**  
**4 Credit Hours**

The content of this course is organized around common health issues, needs and problems of women and children. Additional focus is placed on health promotion and disease detection as related to pediatric primary care, preconception, pregnancy, and post-partum patients. The content of this course is organized around common health issues, needs and problems of women and children. Additional focus is placed on health promotion and disease detection as related to pediatric primary care, preconception, pregnancy, and post-partum patients.

**Prerequisite:** NURS 60220 and NURS 62292; and graduate standing.

**Corequisite:** NURS 63292.

**Schedule Type:** Lecture

**Contact Hours:** 4 lecture

**Grade Mode:** Standard Letter

**NURS 60330 ADULT GERONTOLOGY ACUTE CARE NURSE PRACTITIONER IV** **2 Credit Hours**

Students apply therapeutic measures for patients with specialty needs as they relate to acute, acute on chronic and chronic illness. Additionally, students review therapeutic conversation with patient and patient's family via case studies and role-play. Students synthesize information on billing, coding, credentialing and certification requirements.

**Prerequisite:** NURS 60230 and NURS 62392; and graduate standing.

**Corequisite:** NURS 63392.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**NURS 60340 WOMEN'S HEALTH CARE NURSE PRACTITIONER III** **1 Credit Hour**

Focus on the legal and business aspects associated with refinement of women's health nurse practitioner skills and expansion of knowledge related to women's health in selected areas of concentration.

**Prerequisite:** NURS 60240, NURS 62492 and NURS 60506; and graduate standing.

**Corequisite:** NURS 63492.

**Schedule Type:** Lecture

**Contact Hours:** 1 lecture

**Grade Mode:** Standard Letter

**NURS 60353 INDIVIDUAL, ORGANIZATION AND COMMUNITY CONSULTATION** **3 Credit Hours**

(Cross-listed with NURS 80353) Study of the theoretical approaches to psychiatric mental health advanced practice nursing with organizations and communities. Emphasis is on learning consultation and liaison skills. Students will develop skills in performing a community needs assessment and organizational analysis. Pre/

**Prerequisite:** NURS 60251; and graduate standing.

**Corequisite:** NURS 63592.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**NURS 60370 PEDIATRIC NURSE PRACTITIONER II** **1 Credit Hour**

Focuses on continued development of advanced practice nursing assessment skills for well and/or acute care of infants, children and adolescents.

**Prerequisite:** NURS 60270 and NURS 62792.

**Corequisite:** NURS 63792.

**Schedule Type:** Lecture

**Contact Hours:** 1 lecture

**Grade Mode:** Standard Letter

**NURS 60372 ADVANCED NURSING CARE OF THE CHRONICALLY ILL CHILD** **3 Credit Hours**

Emphasizes the development of competent advanced practice nursing skills and comprehensive knowledge of chronic illness-conditions in children, including diagnoses, management and evaluation in primary care. Concepts of chronic illness and interventions for families are explored.

**Prerequisite:** NURS 60370 and NURS 63792; and graduate standing.

**Corequisite:** NURS 63992.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**NURS 60403 METHODS OF INQUIRY 3 Credit Hours**

Surveys types of research designs and methods that produce evidence contributing to positive patient outcomes. For each design the student learns essential elements, appropriate use and the criteria for rigor within the context of patient outcomes.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**NURS 60440 WOMEN'S HEALTH CARE NURSE PRACTITIONER IV 2 Credit Hours**

Further development of a foundation for competent clinical practice within a health care setting. Introduces the student to the practice of primary health care of women including premenopausal and menopausal women. Included are principles of growth and development, health promotion, disease prevention and management of common acute and chronic health problems. Emphasis is placed on the biological, psychological and sociocultural aspects of care. Pathophysiology, assessment and diagnostic techniques specific to acute and common problems are stressed. Nursing strategies related to health problems used to enhance, maintain and restore health are emphasized. Also emphasized are the coordination of care needed within the clinical setting, collaboration and use of community resources.

**Prerequisite:** NURS 60340 and NURS 63492; and graduate standing.

**Corequisite:** NURS 64892.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**NURS 60441 PHARMACOLOGY FOR ADVANCED PRACTICE NURSING 3 Credit Hours**

A survey course addressing the fundamental principles of medication prescribing and administration necessary for nurses in advanced practice. Course addresses pharmacodynamics, pharmacokinetics and pharmacotherapeutics.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**NURS 60470 PEDIATRIC NURSE PRACTITIONER III 2 Credit Hours**

Focus on synthesizing pediatric nurse practitioner knowledge and skills to provide expert care to a selected population of pediatric clients.

**Prerequisite:** NURS 60372 and NURS 63992; and graduate standing.

**Corequisite:** NURS 64792.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**NURS 60496 INDEPENDENT STUDY 1-4 Credit Hours**

(Repeatable for credit) Readings and/or research supervised by a member of graduate faculty. Provides students the opportunity to explore a content area in depth.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Individual Investigation

**Contact Hours:** 1-4 other

**Grade Mode:** Standard Letter-IP

**NURS 60498 RESEARCH 1-15 Credit Hours**

(Repeatable for credit) Research or individual investigation supervised by a graduate faculty member. Repeat registration permitted. Maximum of 9 credit hours may apply toward degree.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Research

**Contact Hours:** 1-15 other

**Grade Mode:** Standard Letter

**NURS 60506 CLINICAL DIAGNOSTICS FOR ADVANCED PRACTICE NURSES 3 Credit Hours**

Prepares the student in the selection, use and interpretation of laboratory and other diagnostic tests for screening, examination, and therapeutics in the care of ambulatory adults. The course examines comprehensive laboratory and diagnostic techniques and guides the student in safe and appropriate application. The student is be able to use their understanding of complex clinical situations to build specialty nursing knowledge. Throughout this course the student is guided in the demonstration of sound clinical judgment in diagnostic testing for patient assessment and evaluation using case management problems.

**Prerequisite:** Graduate standing.

**Pre/corequisite:** NURS 60015 and NURS 60045.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**NURS 60540 WOMEN'S HEALTH CARE NURSE PRACTITIONER V 2 Credit Hours**

Student performs in the advanced practice role with a specified population of clients of the student's choice in a selected multidisciplinary care setting. Students have an opportunity to test the effectiveness of various strategies inherent within the role of nurse practitioner and to demonstrate leadership through role implementation under the guidance of the faculty. Student must achieve a 'B' (3.0) or higher to complete course.

**Prerequisite:** NURS 60440 and NURS 64892; and graduate standing.

**Corequisite:** NURS 65892.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**NURS 60592 NURSING EDUCATION PRACTICUM 3 Credit Hours**

(Repeatable for credit) Prepares students with practical experiences in curriculum design, implementation, evaluation, and instruction with a master educator in the academic and or staff development setting.

**Prerequisite:** NURS 60601 and NURS 60602 and NURS 60605; and graduate standing.

**Schedule Type:** Lecture, Practical Experience

**Contact Hours:** 1 lecture, 10 other

**Grade Mode:** Standard Letter

**NURS 60601 CURRICULUM AND INSTRUCTION IN NURSING EDUCATION 3 Credit Hours**

For master's enrolled or master's prepared nurses learning to teach and facilitate critical thinking in the areas of curriculum planning, design, development, implementation and evaluation in nursing education in the academic and staff development settings.

**Prerequisite:** Graduate standing.

**Pre/corequisite:** NURS 60015 and NURS 60101.

**Schedule Type:** Laboratory, Lecture

**Contact Hours:** 1 lecture, 4 lab

**Grade Mode:** Standard Letter

**NURS 60602 ROLES AND EVALUATION FOR NURSING EDUCATION CURRICULA 3 Credit Hours**

For master's enrolled or master's prepared nurses focusing on theory, history and techniques of evaluation and testing for nurse educators in academic and staff development settings. Faculty and student roles, and legal and ethical issues are addressed.

**Prerequisite:** NURS 60601; and graduate standing.

**Schedule Type:** Laboratory, Lecture

**Contact Hours:** 1 lecture, 4 lab

**Grade Mode:** Standard Letter

**NURS 60605 NURSING EDUCATION WITH TECHNOLOGY 2 Credit Hours**

This course is designed for master's enrolled or master's prepared students with a focus in nursing education. Theory, concepts and evidence are introduced to support the use of technology in nursing education. Students gain an understanding of how to use and integrate a variety of technology tools as they prepare to deliver educational offerings in academic and staff development nursing settings.

**Prerequisite:** NURS 60601; and graduate standing.

**Corequisite:** NURS 60602 and NURS 60607.

**Schedule Type:** Laboratory, Lecture

**Contact Hours:** 1 lecture, 2 lab

**Grade Mode:** Standard Letter

**NURS 60607 CLINICAL NURSING AND EDUCATION ISSUES IN A SPECIALTY AREA 1 Credit Hour**

This course focuses on exploration of pertinent issues applicable to clinical practice. Students will develop in depth knowledge and expertise in their area of clinical specialty as well as analyze how this impacts their role as nurse educators.

**Prerequisite:** Nursing major; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 1 lecture

**Grade Mode:** Standard Letter

**NURS 61092 ADULT GERONTOLOGY ACUTE CARE NURSE PRACTITIONER I PRACTICUM 2 Credit Hours**

Students apply in the clinical setting the concepts introduced in NURS 60129. Students must complete 150 practicum hours.

**Prerequisite:** Graduate standing.

**Corequisite:** NURS 60129.

**Schedule Type:** Practical Experience

**Contact Hours:** 10 other

**Grade Mode:** Standard Letter

**NURS 61095 SPECIAL TOPICS IN NURSING 2-6 Credit Hours**

(Repeatable for credit) Topics in nursing such as holistic health, selected pathological alterations and recent developments. May include clinical practicum. May be repeated three times with approval for a maximum of 12 credits applied toward the degree.

**Prerequisite:** Graduate standing in Nursing.

**Schedule Type:** Lecture

**Contact Hours:** 2-6 lecture

**Grade Mode:** Standard Letter

**NURS 61192 ADULT GERONTOLOGY CLINICAL NURSE SPECIALIST I PRACTICUM 2 Credit Hours**

Clinical practicum of 150 hours with application of principles of clinical nurse specialist practice introduced in NURS 60110. The student acquires direct care CNS competencies in specialty practice with adults and older adults in a variety of health care settings in consultation with faculty and a clinical preceptor.

**Prerequisite:** Graduate standing.

**Corequisite:** NURS 60110.

**Schedule Type:** Practical Experience

**Contact Hours:** 10 other

**Grade Mode:** Standard Letter

**NURS 61292 ADULT/GERONTOLOGY PRIMARY CARE I PRACTICUM 2 Credit Hours**

Practicum for the concepts introduced in Adult-Gero Primary Care I. Includes 150 practicum hours.

**Prerequisite:** NURS 60015; and graduate standing.

**Corequisite:** NURS 60120.

**Schedule Type:** Practical Experience

**Contact Hours:** 10 other

**Grade Mode:** Standard Letter

**NURS 61392 ADULT GERONTOLOGY ACUTE CARE NURSE PRACTITIONER II PRACTICUM 2 Credit Hours**

Practicum introduces students to the concepts of working with multi-disciplinary teams and applies the content taught in NURS 60130.

**Prerequisite:** NURS 60129 and NURS 61092; and graduate standing.

**Corequisite:** NURS 60130.

**Schedule Type:** Practical Experience

**Contact Hours:** 10 other

**Grade Mode:** Standard Letter

**NURS 61492 WOMEN'S HEALTH CARE NURSE PRACTITIONER I PRACTICUM 2 Credit Hours**

Practicum for concepts introduced in Women's Health Care NP I. This course has 150 clinical hours.

**Prerequisite:** Graduate standing.

**Pre/corequisite:** NURS 60015.

**Corequisite:** NURS 60140.

**Schedule Type:** Practical Experience

**Contact Hours:** 10 other

**Grade Mode:** Standard Letter

**NURS 61592 INDIVIDUAL THERAPY PRACTICUM 2 Credit Hours**

Initial PMH nurse practitioner practicum emphasizes the development of knowledge and skills in mental health assessment, individual psychotherapy, and psychopharmacologic therapies with individuals experiencing chronic or acute mental illness. 150 practicum hours required.

**Prerequisite:** NURS 60012 and NURS 60051 and Graduate standing.

**Corequisite:** NURS 60151.

**Schedule Type:** Practical Experience

**Contact Hours:** 10 other

**Grade Mode:** Standard Letter



**NURS 61692 PRIMARY CARE PEDIATRICS PRACTICUM 2 Credit Hours**

Practicum for Primary Care Pediatrics is the clinical experience to correspond with the content in the corresponding didactic course. 150 hours of practicum.

**Prerequisite:** NURS 60015; and graduate standing.

**Corequisite:** NURS 60160.

**Schedule Type:** Practical Experience

**Contact Hours:** 10 other

**Grade Mode:** Standard Letter

**NURS 61792 PEDIATRIC ASSESSMENT FOR ADVANCED PRACTICE NURSE PRACTICUM 2 Credit Hours**

This course is the clinical application of concepts introduced in Advanced Pediatric Assessment for Advanced Practice Nurses. 150 hours of practicum.

**Prerequisite:** NURS 60045 and NURS 60101; and graduate standing.

**Pre/corequisite:** NURS 60015.

**Corequisite:** NURS 60170.

**Schedule Type:** Practical Experience

**Contact Hours:** 10 other

**Grade Mode:** Standard Letter

**NURS 61892 FAMILY AND ADULT/GERONTOLOGY NURSE PRACTITIONER ROLE PRACTICUM 1 Credit Hour**

Practicum for the concepts introduced in NURS 60125 Family and Adult-Gero Nurse Practitioner Role. Includes 75 practicum hours.

**Prerequisite:** NURS 60120 and 61292; and graduate standing.

**Corequisite:** NURS 60125.

**Schedule Type:** Practical Experience

**Contact Hours:** 5 other

**Grade Mode:** Standard Letter

**NURS 62192 ADULT GERONTOLOGY CLINICAL NURSE SPECIALIST II PRACTICUM 3 Credit Hours**

Application of principles of clinical nurse specialist (CNS) practice introduced in NURS 60210. The student acquires direct care CNS competencies in specialty practice with adults and older adults in a variety of health care settings in consultation with faculty and a clinical preceptor. 225 hours of practicum.

**Prerequisite:** NURS 60110 and NURS 61192; and graduate standing.

**Corequisite:** NURS 60210.

**Schedule Type:** Practical Experience

**Contact Hours:** 15 other

**Grade Mode:** Standard Letter

**NURS 62292 PRIMARY CARE II PRACTICUM: CHRONICALLY ILL ADULTS 2 Credit Hours**

Practicum for the concepts introduced in Primary Care II: Chronically Ill Adults. 150 practicum hours.

**Prerequisite:** NURS 60125 and NURS 61892; and graduate standing.

**Corequisite:** NURS 60220.

**Schedule Type:** Practical Experience

**Contact Hours:** 10 other

**Grade Mode:** Standard Letter

**NURS 62392 ADULT GERONTOLOGY ACUTE CARE NURSE PRACTITIONER III PRACTICUM 2 Credit Hours**

Students apply techniques for evaluation and treatment of the adult-gerontology patient in the acute care setting. Course includes approaches to pharmacotherapeutic and non-pharmacotherapeutic treatment for acute, acute on chronic and chronic illness. Students must complete 150 practicum hours.

**Prerequisite:** NURS 60130 and NURS 61392; and graduate standing.

**Corequisite:** NURS 60230.

**Schedule Type:** Practical Experience

**Contact Hours:** 10 other

**Grade Mode:** Standard Letter

**NURS 62492 WOMEN'S HEALTH CARE NURSE PRACTITIONER II PRACTICUM 2 Credit Hours**

Practicum for concepts introduced in Women's Health Care NP II. This course has 150 practicum hours.

**Prerequisite:** NURS 60140, NURS 60441 and NURS 61492; and graduate standing.

**Corequisite:** NURS 60240.

**Schedule Type:** Practical Experience

**Contact Hours:** 10 other

**Grade Mode:** Standard Letter

**NURS 62592 MEDICATION MANAGEMENT AND INDIVIDUAL THERAPY PRACTICUM 2 Credit Hours**

Second Psychiatric Mental Health Advanced Practice Nurse practicum emphasizes the continued development of knowledge and skills in mental health assessment, individual psychotherapy, and psychopharmacologic therapies with individuals experiencing chronic or acute mental illness. Students will also get experience working with a Psychiatric Mental Health prescriber. Group supervision is provided. 150 practicum hours.

**Prerequisite:** NURS 61592 and NURS 60151; and graduate standing.

**Pre/corequisite:** NURS 60441.

**Schedule Type:** Practical Experience

**Contact Hours:** 10 other

**Grade Mode:** Standard Letter

**NURS 62792 PEDIATRIC NURSE PRACTITIONER I PRACTICUM 2 Credit Hours**

Practicum for the concepts introduced in Pediatric Nurse Practitioner I 150 hours of practicum.

**Prerequisite:** NURS 60015 and NURS 60170; and graduate standing.

**Corequisite:** NURS 60270.

**Schedule Type:** Practical Experience

**Contact Hours:** 10 other

**Grade Mode:** Standard Letter

**NURS 63192 ADULT GERONTOLOGY CLINICAL NURSE SPECIALIST III PRACTICUM 2 Credit Hours**

Acquires CNS systems and leadership competencies in specialty practice with adults and older adults in a variety of health care settings in consultation with faculty and a clinical preceptor. 150 hours of clinical practicum.

**Prerequisite:** NURS 60210 and NURS 62192; and graduate standing.

**Corequisite:** NURS 60310.

**Schedule Type:** Practical Experience

**Contact Hours:** 10 other

**Grade Mode:** Standard Letter

**NURS 63292 PRIMARY CARE: FAMILY HEALTH AND CHRONIC ILLNESS PRACTICUM 2 Credit Hours**

This course is a practicum of concepts introduced in NURS 60325 Primary Care: Family Health and Chronic Illness course. 150 hours of practicum.

**Prerequisite:** NURS 60220 and NURS 62292; and graduate standing.

**Corequisite:** NURS 60325.

**Schedule Type:** Practical Experience

**Contact Hours:** 10 other

**Grade Mode:** Standard Letter

**NURS 63392 ADULT GERONTOLOGY ACUTE CARE NURSE PRACTITIONER IV PRACTICUM 2 Credit Hours**

Students apply therapeutic measures for patients with specialty needs as they relate to acute, acute on chronic and chronic illness. Students demonstrate competency in direct acute care of patients across the adult lifespan, and demonstrate professional compassionate care to patients and their significant others. Students must complete 150 hours of practicum.

**Prerequisite:** NURS 60230 and NURS 62392; and graduate standing.

**Corequisite:** NURS 60330.

**Schedule Type:** Practical Experience

**Contact Hours:** 10 other

**Grade Mode:** Standard Letter

**NURS 63492 WOMEN'S HEALTH CARE NURSE PRACTITIONER III PRACTICUM 1 Credit Hour**

Practicum concepts introduced in Women's Health Care Nurse Practitioner III. This course has 75 clinical hours. Student must achieve a 'B' (3.0) or higher to progress.

**Prerequisite:** Minimum B grade in NURS 60506; and NURS 60240 and NURS 62492; and graduate standing.

**Corequisite:** NURS 60340.

**Schedule Type:** Practical Experience

**Contact Hours:** 5 other

**Grade Mode:** Standard Letter

**NURS 63592 FAMILY AND GROUP THERAPY 2 Credit Hours**

Third Psychiatric Mental Health Advanced Practice Nurse practicum emphasizes the development of knowledge and skills in family and group psychotherapies with individuals experiencing chronic or acute mental illness.

**Prerequisite:** NURS 62592; and graduate standing.

**Corequisite:** NURS 60251.

**Schedule Type:** Practical Experience

**Contact Hours:** 10 other

**Grade Mode:** Standard Letter

**NURS 63692 ADULT GERONTOLOGY COMPREHENSIVE PRIMARY CARE III PRACTICUM 2 Credit Hours**

Practicum for the concepts introduced in AdultGero Comprehensive Primary Care III. 150 hours of practicum.

**Prerequisite:** NURS 60220 and NURS 62292; and graduate standing.

**Corequisite:** NURS 60320.

**Schedule Type:** Practical Experience

**Contact Hours:** 10 other

**Grade Mode:** Standard Letter

**NURS 63792 PEDIATRIC NURSE PRACTITIONER II PRACTICUM 1 Credit Hour**

Practicum for the concepts introduced in Pediatric Nurse Practitioner II. 75 hours of practicum.

**Prerequisite:** NURS 60270 and NURS 62792; and graduate standing.

**Corequisite:** NURS 60370.

**Schedule Type:** Practical Experience

**Contact Hours:** 5 other

**Grade Mode:** Standard Letter

**NURS 63992 ADVANCED NURSING CARE OF THE CHRONICALLY ILL CHILD PRACTICUM 2 Credit Hours**

Practicum for the concepts introduced in Advanced Nursing Care of the Chronically Ill Child. 150 hours of practicum.

**Prerequisite:** NURS 60270; and graduate standing.

**Corequisite:** NURS 60372.

**Schedule Type:** Practical Experience

**Contact Hours:** 10 other

**Grade Mode:** Standard Letter

**NURS 64002 PROGRAM DEVELOPMENT AND EVALUATION FOR NURSE ADMINISTRATORS 3 Credit Hours**

This course focuses on processes for planning, developing and evaluating programs in health care. Analysis of theories, models, issues, challenges related to program planning, development and evaluation relevant to the nurse administrator are considered.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**NURS 64202 NURSING ADMINISTRATION AND HEALTH SYSTEMS LEADERSHIP I SEMINAR 2 Credit Hours**

This course is the first of two capstone seminars with a practicum in a health care organization. Students integrate and apply leadership and management knowledge and are coached in professional roles by established health care leaders.

**Prerequisite:** NURS 60014, NURS 60020, NURS 60024 and NURS 60315; and graduate standing.

**Corequisite:** NURS 64292.

**Schedule Type:** Seminar

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**NURS 64292 NURSING ADMINISTRATION AND HEALTH SYSTEMS LEADERSHIP I PRACTICUM 2 Credit Hours**

Application of principles of leadership and management introduced in 64202 and in other program courses. Students acquire competencies related to leading others in a health care organization.

**Prerequisite:** NURS 60014, NURS 60020, NURS 60024 and NURS 60315; and graduate standing.

**Corequisite:** NURS 64202.

**Schedule Type:** Practical Experience

**Contact Hours:** 2 lecture, 10 other

**Grade Mode:** Standard Letter

**NURS 64302 NURSING ADMINISTRATION AND HEALTH SYSTEMS LEADERSHIP II SEMINAR 2 Credit Hours**

This course is the second of two capstone seminars with a practicum in a health care organization. Students further integrate and apply management knowledge and their professional roles coached by established health care leaders.

**Prerequisite:** NURS 64202 and NURS 64292; and graduate standing.

**Corequisite:** NURS 64392.

**Schedule Type:** Seminar

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**NURS 64392 NURSING ADMINISTRATION AND HEALTH SYSTEMS LEADERSHIP II PRACTICUM 2 Credit Hours**

Capstone clinical practicum with application of principles of leadership and management introduced in NURS 64392 and throughout the program. Students acquire competencies in leadership in health care organizations.

**Prerequisite:** NURS 64202 and NURS 64292; and graduate standing.

**Corequisite:** NURS 64302.

**Schedule Type:** Practical Experience

**Contact Hours:** 10 other

**Grade Mode:** Standard Letter

**NURS 64592 PSYCHIATRIC MENTAL HEALTH PRACTICUM IV: NURSE PRACTITIONER ROLE 2 Credit Hours**

This is the capstone practicum course for students in the Psychiatric Mental Health Family Nurse Practitioner concentration. Students further integrate and apply Psychiatric Mental Health Advance Practice Nurse knowledge and learn about their professional roles, coached by established Psychiatric Mental Health Advanced Practice Registered Nurses. 150 hours of practicum.

**Prerequisite:** NURS 63592; and graduate standing.

**Pre/corequisite:** NURS 60452.

**Schedule Type:** Practical Experience

**Contact Hours:** 10 other

**Grade Mode:** Standard Letter

**NURS 64792 PEDIATRIC NURSE PRACTITIONER III PRACTICUM 1 Credit Hour**

Practicum for the concepts introduced in Pediatric Nurse Practitioner III. 75 hours of practicum.

**Prerequisite:** NURS 60372 and NURS 63992; and graduate standing.

**Corequisite:** NURS 60470.

**Schedule Type:** Practical Experience

**Contact Hours:** 10 other

**Grade Mode:** Standard Letter

**NURS 64892 WOMEN'S HEALTH CARE NURSE PRACTITIONER IV PRACTICUM 2 Credit Hours**

This course is the clinical application of concepts introduced in Women's Health Care NP IV. 150 hours of practicum.

**Prerequisite:** NURS 60340 and NURS 63492; and graduate standing.

**Corequisite:** NURS 60440.

**Schedule Type:** Practical Experience

**Contact Hours:** 10 other

**Grade Mode:** Standard Letter

**NURS 65892 WOMEN'S HEALTH CARE NURSE PRACTITIONER V PRACTICUM 2 Credit Hours**

Practicum for concepts introduced in Women's Health Care Nurse Practitioner V. 150 hours in practicum.

**Prerequisite:** NURS 60440 and NURS 64892; and graduate standing.

**Corequisite:** NURS 60540.

**Schedule Type:** Practical Experience

**Contact Hours:** 10 other

**Grade Mode:** Standard Letter

**NURS 67092 CLINICAL NURSING AND EDUCATION ISSUES IN A SPECIALTY AREA PRACTICUM 2 Credit Hours**

This practicum course allows students to apply concepts introduced in NURS 60607 to develop in-depth knowledge and expertise in a chosen area of clinical specialty.

**Prerequisite:** Graduate standing.

**Pre/corequisite:** NURS 60607.

**Schedule Type:** Practical Experience

**Contact Hours:** 10 other

**Grade Mode:** Standard Letter

**NURS 67100 ADULT/ADOLESCENT SEXUAL ASSAULT NURSE EXAMINER TRAINING 3 Credit Hours**

Course provides basic knowledge, skills and judgement to provide competent, comprehensive, patient-centered and coordinated care to individuals being evaluated for sexual assault or suspected of having been sexually assaulted.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**NURS 67192 SEXUAL ASSAULT NURSE EXAMINER I PRACTICUM 1 Credit Hour**

Students apply knowledge and skills gained from NURS 67100 in a clinical setting that provides treatment and care to victims of sexual assault. Students must complete 75 practicum hours.

**Prerequisite:** Graduate standing.

**Pre/corequisite:** NURS 67100.

**Schedule Type:** Practical Experience

**Contact Hours:** 5 other

**Grade Mode:** Standard Letter

**NURS 67200 SEXUAL ASSAULT NURSE EXAMINER ADMINISTRATIVE CONCEPTS AND EVALUATION 3 Credit Hours**

Concepts related to the administration and evaluation of programs that treat and care for victims of sexual assault are taught, including working with the criminal justice system, evidence collection and documentation, health care cost, leadership and mentoring and trauma informed care.

**Prerequisite:** NURS 67100; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**NURS 67292 SEXUAL ASSAULT NURSE EXAMINER II PRACTICUM 1 Credit Hour**

Students continue to apply knowledge, hone skills and gain competencies related to the role of a sexual assault nurse examiner in a clinical setting that provides treatment and care to victims of sexual assault. Students must complete 75 practicum hours.

**Prerequisite:** NURS 67100 and NURS 67192; and graduate standing.

**Schedule Type:** Practical Experience

**Contact Hours:** 5 other

**Grade Mode:** Standard Letter

**NURS 67300 POPULATION HEALTH AND SEXUAL ASSAULT 3 Credit Hours**

Course covers topics and concepts that include a quality care model and self-care for the sexual assault nurse examiner; victim population; human trafficking; victim health; rape trauma syndrome; post-traumatic stress disorder (PTSD); healing; substance abuse; pharmacology for sexually transmitted disease; access and barriers to care; and working within an interprofessional team.

**Prerequisite:** NURS 67100; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**NURS 67392 SEXUAL ASSAULT NURSE EXAMINER III PRACTICUM 1 Credit Hour**

Students continue to develop competencies in a clinical setting that provides treatment and care to victims of sexual assault. Students must complete 50 to 75 practicum hours.

**Prerequisite:** NURS 67100 and NURS 67292; and graduate standing.

**Schedule Type:** Practical Experience

**Contact Hours:** 3-5 other

**Grade Mode:** Standard Letter

**NURS 70592 DOCTORAL NURSING PRACTICE PRACTICUM 1-2 Credit Hours**

This course will be repeated beginning the second semester of enrollment until the completion of the scholarly project. The student will design a scholarly project, complete the project proposal defense, successfully obtain IRB approval if needed, implement the scholarly project and successfully defend the completed scholarly project. A minimum of 7 credit hours of this course, which equals 525 practicum hours, are required for these scholarly project activities. The Project Chair will be responsible for the oversight of these activities.

**Prerequisite:** NURS 70630 and NURS 70620; and doctoral standing.

**Schedule Type:** Practical Experience

**Contact Hours:** 5-10 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**NURS 70600 CLINICAL SCHOLAR I 3 Credit Hours**

Focus is transitioning to the clinical scholar leader role within an identified area of advanced nursing practice. Emphasis is placed on the epistemology underlying advanced nursing practice and the integration of theoretical frameworks and evidence-based practice principles in achieving optimal health outcomes for individuals and groups. Comprised of 2 didactic content hours per week and a clinical practicum of 7 hours per week.

**Prerequisite:** Doctoral standing; and special approval.

**Schedule Type:** Clinical Laboratory, Lecture

**Contact Hours:** 2 lecture, 7 other

**Grade Mode:** Standard Letter

**NURS 70605 PROGRAM EVALUATION IN NURSING 3 Credit Hours**

Analysis of theories and models of program evaluation and their relationship to designs, processes, techniques, and outcomes in nursing related evaluations.

**Prerequisite:** Doctor of nursing practice standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**NURS 70610 CLINICAL SCHOLAR II 4 Credit Hours**

Translating and integrating theory and scientific evidence into the clinical work of the advanced practice clinical scholar is the focus of this second seminar course. Culturally-aware approaches are developed to resolve a healthcare issue using theoretic models and principles of evidence-based practice to design innovative interventions. Comprised of 2 didactic content hours per week and a clinical practicum of 14 hours per week.

**Prerequisite:** NURS 70600; and doctoral standing; and special approval.

**Schedule Type:** Clinical Laboratory, Lecture

**Contact Hours:** 2 lecture, 14 other

**Grade Mode:** Standard Letter

**NURS 70620 DOCTOR OF NURSING PRACTICE SEMINAR 3 Credit Hours**

This course is an introduction and overview of the DNP degree as the foundation for translational science in healthcare organizations. DNP Essentials and the associated competencies will be explored (i.e., DNP scholarly inquiry, interdisciplinary collaboration, systems thinking, and organizational leadership). The structure and function of the DNP committee and the requirements for the final scholarly project will be discussed. A complete and thorough literature review to support the DNP Scholarly Project will be a requirement. A Committee Chair will be assigned. The role of the academic advisor and committee chairperson will be explained.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Seminar

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**NURS 70630 RESEARCH METHODS FOR EVIDENCE BASED PRACTICE 3 Credit Hours**

The focus of this course is to provide instruction regarding concepts related to statistical methods and their application in evidence-based practice. Essentials of research methods in evidence-based practice will also be covered. Students will learn to critically analyze and synthesize research findings.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**NURS 70635 APPLICATION OF EVIDENCE BASED PRACTICE 3 Credit Hours**

Focus of course is on the concepts, models, and methods for implementation of evidence-based nursing practice at both individual clinician and system levels. Students will learn to design, implement and evaluate processes and programs at the practice and organizational level to improve healthcare outcomes. Leadership attributes necessary to lead change in practice will be discussed. Factors that facilitate and impede implementing and sustaining evidence-based practice are considered.

**Prerequisite:** NURS 70630; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**NURS 70640 ADVANCED LEADERSHIP IN HEALTHCARE 3 Credit Hours**

Advanced competencies of the doctoral-prepared advanced practice nurse for transformational leadership in healthcare to improve patient and population health outcomes are addressed. Five key leadership competencies including creating and leading change; self-knowledge; strategic vision; interpersonal communication; and organizational effectiveness are presented with examples and case studies. Transcending themes of ethics, research, interprofessional collaboration, creativity, and insuring accountability are addressed throughout the course. Students conduct a self-assessment, and develop and implement individualized action plans for advanced competency in interprofessional healthcare leadership.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**NURS 70650 ORGANIZATIONAL SYSTEMS 3 Credit Hours**

Building on the skills in Advanced Leadership for Healthcare Providers, students will gain an understanding of organizational culture and management structures that contribute to the design and delivery of healthcare. Economic, political and cultural aspects of organizational systems will be discussed.

**Prerequisite:** NURS 70640; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**NURS 70670 QUALITY IMPROVEMENT IN HEALTHCARE DELIVERY 3 Credit Hours**

Focus on the design, implementation and evaluation of quality and patient safety initiatives to improve healthcare delivery at the individual patient and system levels. Data necessary to support quality initiatives will be considered as well as policy, legal and ethical implications.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**NURS 70680 POPULATION HEALTH 3 Credit Hours**

Students will explore care delivery models and strategies for health promotion and disease prevention in individuals, aggregates and populations. Gaps in care and healthcare access will be explored, including social, cultural, economic, and policy and political barriers. The role of genomics in healthcare delivery of populations will be discussed. Students will develop skills to design and evaluate health promotion and disease prevention programs.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**NURS 70685 HEALTHCARE FINANCE AND ECONOMIC POLICY 3 Credit Hours**

Students will gain an understanding of healthcare finance, economics and policy on healthcare delivery systems. The impact of current healthcare laws-policies (Affordable Care Act, HCAHPS, and other care delivery and reimbursement strategies) will be discussed. The DNP prepared nurses' role in patient advocacy and policy development will be discussed. Student will gain an understanding of cost-benefit analyses and creating budgets to support the design, implementation and sustainability of healthcare delivery initiatives.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**NURS 70692 CLINICAL SCHOLAR PRACTICUM 3 Credit Hours**

(Repeatable for credit) Synthesis of components of clinical scholar leader role comprises this practicum. Students apply advanced leadership and clinical scholarship skills to developing and evaluating approaches to healthcare problems in a practicum setting.

**Prerequisite:** NURS 70610; and doctoral standing; and special approval.

**Schedule Type:** Practical Experience

**Contact Hours:** 21 other

**Grade Mode:** Standard Letter

**NURS 70705 FOUNDATIONS OF RESEARCH METHODS IN NURSING 3 Credit Hours**

Examines diverse paradigms and research methods as the foundation for scholarly inquiry in nursing knowledge development. Students begin building a foundation for focused intellectual inquiry in a substantive area of nursing.

**Prerequisite:** Doctoral standing.

**Corequisite:** NURS 70710.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**NURS 70710 HISTORY AND PHILOSOPHY OF NURSING SCIENCE 2 Credit Hours**

This course examines the nature and metaphysics and epistemology and the influence of contemporary Eastern and Western philosophies on the developing epistemology of disciplinary nursing knowledge.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**NURS 70711 SCIENTIFIC WRITING 2 Credit Hours**

This courses covers how to conduct several types of literature reviews. Students will conduct a literature review relevant to their research interest, synthesize the literature, identify gaps, and write a synthesis of the literature. Ethical issues and authorship considerations are discussed.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter



**NURS 70712 RESEARCH DESIGN FUNDAMENTALS 2 Credit Hours**

The course focuses on learning fundamental methodological concepts and tools that enable an understanding of research problems and serve as a basis to conduct quantitative and qualitative research. There is emphasis on linking theory and research models to research questions, hypotheses and designs.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**NURS 70713 ADVANCED STATISTICS I 2 Credit Hours**

This course focuses on learning introductory descriptive, parametric and non-parametric statistical models. Students learn how to enter, clean, and handle missing data, as well as perform analyses using SPSS. Expected outcomes are a conceptual understanding of statistical models covered in the course, interpretation of output of statistical analyses, and communication of findings in oral and written work.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**NURS 70714 LEADERSHIP FOR NURSING SCIENCE 3 Credit Hours**

This course focuses on the development of the nurse scientist as a leader across health care and higher educational systems, as well as in influencing and formulating healthcare policy.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**NURS 70715 THEORY CONSTRUCTION AND DEVELOPMENT IN NURSING 3 Credit Hours**

This course examines strategies for theory development including logical-empirical-deductive and inductive approaches. Emphasis will be on elements and strategies used in theory building.

**Prerequisite:** NURS 70710; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**NURS 70720 INTRODUCTION TO NURSING KNOWLEDGE DOMAINS 3 Credit Hours**

Introductory seminar analyzing selected theoretical and methodological approaches to knowledge development in nursing. Emphasis on critical analysis of knowledge in areas of special interest.

**Prerequisite:** NURS 70725 and NURS 70730; and doctoral standing.

**Pre/corequisite:** NURS 70715.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**NURS 70725 QUANTITATIVE RESEARCH METHODS IN NURSING 3 Credit Hours**

Extends students' knowledge of the theory and practice of quantitative research in nursing. Focus is on the major types of quantitative design in nursing science. Theoretical and procedural issues related to design, measurement and data management with a substantive area of nursing inquiry are emphasized. Akron 8200:825.

**Prerequisite:** Doctoral standing.

**Corequisite:** NURS 70705 and NURS 70727.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**NURS 70727 ADVANCED HEALTH CARE STATISTICS I 3 Credit Hours**

Comprehension of bivariate and multivariate descriptive and inferential statistics designed for nurse researchers. Applications to research problems in nursing. Akron 8200 827.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**NURS 70730 QUALITATIVE RESEARCH METHODS IN NURSING 3 Credit Hours**

Selected qualitative research methods used to study nursing phenomena. Philosophical bases; design, data collection and analysis; evaluation of rigor; and ethical issues for major qualitative methods will be analyzed with regard to nursing phenomena.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**NURS 70735 NURSING AND HEALTH CARE POLICY 3 Credit Hours**

Critical examination of theories and processes of formulating state/national health care policy. Focus on health issues, the political and legislative process and contemporary policy dilemmas.

**Prerequisite:** Doctoral standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**NURS 70737 ADVANCED HEALTH CARE STATISTICS II 3 Credit Hours**

Application of bivariate and multivariate descriptive and inferential statistics to research problems in nursing. Akron 8200 837.

**Prerequisite:** NURS 70727; and doctoral standing or special approval from department.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**NURS 70740 ADVANCED STATISTICS II 3 Credit Hours**

This course provides in-depth knowledge of regression, general linear model, and exploratory factor analysis statistical models. Course outcomes include a conceptual understanding of these models and the ability to conduct and interpret output of statistical analyses and communicate findings in oral and written work. Knowledge of SPSS is required.

**Prerequisite:** NURS 70713; and doctoral standing.

**Schedule Type:** Lecture

**Grade Mode:** Standard Letter

**NURS 70741 ADVANCED STATISTICS III 3 Credit Hours**

This course focuses on more advanced statistical models used in nursing, including but not limited to, confirmatory factor analysis, path analysis and structural equation modeling. Course outcomes are a conceptual understanding of these models and ability to interpret output of statistical analyses and communicate findings in oral and written work.

**Prerequisite:** NURS 70740; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**NURS 70742 ADVANCED QUALITATIVE METHODS FOR HEALTH SCIENCES 4 Credit Hours**

Select qualitative research methods used to study nursing phenomena are examined. Theory and philosophical underpinnings, design, recruitment, data collection and analysis, evaluation of rigor, and ethical issues for major qualitative methods are discussed.

**Prerequisite:** NURS 70710, NURS 70712 and NURS 70715; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 4 lecture

**Grade Mode:** Standard Letter

**NURS 70743 ADVANCED QUANTITATIVE METHODS FOR HEALTH SCIENCES 4 Credit Hours**

This course extends knowledge of quantitative research designs for nursing and focuses on cross-sectional, cohort, and case control studies, and clinical trials. Advanced knowledge of measurement, sampling, data collection and methods to improve quantitative design rigor is covered. There is emphasis on application of course content to a selected research question or hypothesis.

**Prerequisite:** NURS 70710, NURS 70712 and NURS 70715; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 4 lecture

**Grade Mode:** Standard Letter

**NURS 70744 PROPOSAL DEVELOPMENT 3 Credit Hours**

In this course, students will critically evaluate existing literature to develop persuasive and methodologically sound arguments addressing at least one critical gap for nursing science. Focus is on study design, scope, and feasibility of projects that culminate in a dissertation proposal first draft.

**Prerequisite:** NURS 70742 and NURS 70743; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**NURS 70745 ADVANCED TOPICS IN QUANTITATIVE RESEARCH METHODS 3 Credit Hours**

Focuses on integration and application of components of quantitative research design in nursing through application of multivariate design principles to existing data sets. Advanced topics in methods, statistics and measurement are addressed.

**Prerequisite:** NURS 70725 and 70727; and doctoral standing.

**Pre/corequisite:** NURS 70737.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**NURS 70747 ADVANCED METHODS FOR NURSING RESEARCH: APPLICATION OF QUALITATIVE METHODS 3 Credit Hours**

Theory, data collection and analysis used in qualitative nursing research with a focus on phenomenology, grounded theory and ethnography.

**Prerequisite:** NURS 70720 and NURS 70725 and NURS 70730; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**NURS 70791 VARIABLE CONTENT SEMINAR: EMERGING ISSUES IN NURSING SCIENCE AND RESEARCH 3 Credit Hours**

(Repeatable for credit) This seminar course will examine in-depth current scientific trends and emerging topics in nursing research.

**Prerequisite:** NURS 70742 and NURS 70743; and doctoral standing.

**Schedule Type:** Seminar

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**NURS 70792 FIELD EXPERIENCE IN NURSING 1-12 Credit Hours**

(Repeatable for credit) Individual enrollment in field experience settings related to nursing.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Field Experience

**Contact Hours:** 1-12 other

**Grade Mode:** Standard Letter

**NURS 70795 SPECIAL TOPICS IN NURSING 2-6 Credit Hours**

(Repeatable for credit) Study of important topics in nursing practice, research on the profession. Offering in response to existing interests and opportunities.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 2-6 lecture

**Grade Mode:** Standard Letter

**NURS 70796 INDIVIDUAL INVESTIGATION IN NURSING 1-3 Credit Hours**

(Repeatable for credit) Individual enrollment for independent study in nursing carried out by student under supervision of a doctoral faculty member.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Individual Investigation

**Contact Hours:** 1-3 other

**Grade Mode:** Standard Letter

**NURS 70798 RESEARCH IN NURSING 1-3 Credit Hours**

(Repeatable for credit) Research activities are carried out by a student under faculty supervision, including but not limited to, data collection, coding, entry and analysis, inter-professional teamwork, and preparation and submission of research presentations and manuscripts.

**Prerequisite:** NURS 70742; and doctoral standing.

**Pre/corequisite:** NURS 70743.

**Schedule Type:** Research

**Contact Hours:** 3-9 other

**Grade Mode:** Standard Letter

**NURS 71392 DOCTOR OF NURSING PRACTICE SCHOLARLY PROJECT PRACTICUM I 2 Credit Hours**

This course is the first in a series of four courses beginning the second semester of enrollment culminating with the completion of the scholarly project in the fourth practicum. The Committee Chair is the faculty of record. In this practicum the student will design the Scholarly Project, submit a paper for approval to the committee and complete the project Defense of Proposal, as well as complete DNP Practicum hours. The Committee Chair will be responsible for the oversight of these activities.

**Prerequisite:** NURS 70620; and doctoral standing.

**Schedule Type:** Practical Experience

**Contact Hours:** 10 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**NURS 72392 DOCTOR OF NURSING PRACTICE SCHOLARLY PROJECT PRACTICUM II 2 Credit Hours**

This course is the second in a series of four courses that will focus on the beginning phases of implementation of the Scholarly Project. The Committee Chair is the faculty of record. In this course the student will submit application for IRB approval and once approved begin to implement the Scholarly Project, as well as complete DNP Practicum hours. The Committee Chair will be responsible for the oversight of these activities.

**Prerequisite:** NURS 71392; and doctoral standing.

**Schedule Type:** Practical Experience

**Contact Hours:** 10 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**NURS 73392 DOCTOR OF NURSING PRACTICE SCHOLARLY PROJECT PRACTICUM III 2 Credit Hours**

This course is the third in a series of four courses that focuses on the completion of the implementation phase of the Scholarly Project. The Committee Chair is the faculty of record. In the series, complete the implementation phase of the Scholarly Project, collect and analyze project data and begin the final draft of the paper to be submitted in the fourth practicum course, as well as complete DNP Practicum hours. The Committee Chair will be responsible for the oversight of these activities.

**Prerequisite:** NURS 72392; and doctoral standing.

**Schedule Type:** Practical Experience

**Contact Hours:** 10 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**NURS 74392 DOCTORAL OF NURSING PRACTICE SCHOLARLY PROJECT PRACTICUM IV 1 Credit Hour**

This course is the fourth in a series of four courses culminating with the completion of the scholarly project. The Committee Chair is the faculty of record. In the series, the student will finish analyzing data and begin an evaluation of the project and findings. The student will submit a final Scholarly paper and upon approval from the committee will conduct the final Defense of the Scholarly Project as well as complete DNP Practicum hours. The Committee Chair will be responsible for the oversight of these activities.

**Prerequisite:** NURS 74392; and doctoral standing.

**Schedule Type:** Practical Experience

**Contact Hours:** 5 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**NURS 76199 DOCTOR OF NURSING PRACTICE SCHOLARLY PROJECT 2-6 Credit Hours**

(Repeatable for credit) Faculty and preceptor-directed project that contributes to nursing practice knowledge. Culminates in an oral defense and a publishable manuscript. Students register for a total of 6 hours, 2 to 6 hours in a single semester, distributed over three semesters if desired. Pre/

**Prerequisite:** NURS 70600; and doctoral standing; and special approval.

**Corequisite:** NURS 70610.

**Schedule Type:** Research

**Contact Hours:** 14-42 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**NURS 76299 CAPSTONE PROJECT II 1-3 Credit Hours**

(Repeatable for credit) Capstone project students must continue registration until all degree requirements are met.

**Prerequisite:** NURS 76199; and doctoral standing; and special approval.

**Schedule Type:** Research

**Contact Hours:** 7-21 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**NURS 80199 DISSERTATION I 15 Credit Hours**

(Repeatable for credit) Independent doctoral research for the dissertation under faculty supervision. Registration of at least two semesters is required, continuing until completion of 30 credit hours. Akron 8200:899.

**Prerequisite:** Admission to doctoral candidacy; and doctoral standing.

**Schedule Type:** Dissertation

**Contact Hours:** 15 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**NURS 80299 DISSERTATION II 15 Credit Hours**

(Repeatable for credit) Continuing registration of research, after initial 30 hours of Dissertation I.

**Prerequisite:** 30 hours of NURS 80199; and doctoral standing.

**Schedule Type:** Dissertation

**Contact Hours:** 15 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

## Nursing Technology (NRST)

**NRST 10001 FOUNDATIONS OF NURSING AGENCY 5 Credit Hours**

Development of basic nursing skills and physical assessment. Students begin implementation of the nursing process using universal self-care requisites as an organizational framework.

**Prerequisite:** Admission to technical study; and nursing ADN major.

**Schedule Type:** Clinical Laboratory, Combined Lecture and Lab

**Contact Hours:** 2 lecture, 4.67 lab, 4.33 other

**Grade Mode:** Standard Letter

**Attributes:** CTAG Nursing/Associate Degree

**NRST 10003 NURSING AGENCY I 6 Credit Hours**

Emphasizes broad concepts common to nursing practice. Increasingly complex skills are introduced. Care focuses on simple therapeutic self-care demands.

**Prerequisite:** Minimum C grade in the following: BSCI 11010 and CHEM 10055 (or CHEM 10050) and NRST 10001 and UC 10097 and one from the Kent Core Mathematics and Critical Reasoning category; and nursing ADN major; and minimum 2.000 overall GPA.

**Schedule Type:** Clinical Laboratory, Combined Lecture and Lab

**Contact Hours:** 3.5 lecture, 3 lab, 4.5 other

**Grade Mode:** Standard Letter

**Attributes:** CTAG Nursing/Associate Degree

**NRST 10006 LPN TO ASSOCIATE DEGREE IN NURSING TRANSITION 3 Credit Hours**

Course is designed for the advanced placement of licensed practical nurses (LPN) to the nursing program. Course includes content areas from all first-year nursing courses, with both theory and lab. Orem's theory is introduced, emphasizing the assessment of the client's self-care assets and self-care deficits.

**Prerequisite:** Nursing ADN major; and minimum 2.700 overall GPA; and admission to technical study; and minimum C grade in the following: BSCI 11010 and CHEM 10055 (CHEM 10050) and UC 10097 and one from Kent Core Mathematics and Critical Reasoning category.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 2 lecture, 3 lab

**Grade Mode:** Standard Letter

**NRST 10008 PARAMEDIC TO ASSOCIATE DEGREE IN NURSING TRANSITION 5 Credit Hours**

Course serves to validate prior learning, update and enhance the student's knowledge, begin the process of role transition and prepare students for advanced placement into the Nursing program.

**Prerequisite:** Minimum 2.700 cumulative GPA; and Nursing ADN major; and admission to technical study; and minimum C grade in the following: BSCI 11010 and CHEM 10055 (CHEM 10050) and UC 10097 and one from Kent Core Mathematics and Critical Reasoning category.

**Schedule Type:** Clinical Laboratory, Lecture

**Contact Hours:** 3.5 lecture, 1.83 lab, 2.67 other

**Grade Mode:** Standard Letter

**NRST 10009 BASIC PRINCIPLES OF PHARMACOLOGY 2 Credit Hours**

Students identify and apply the basic principles of pharmacology to client care. In addition, they explore pharmaceuticals, pharmacokinetics, pharmacodynamics, pharmacology-related math, drug classification, and safe preparation and administration of medications.

**Prerequisite:** Major in one of the following: Nursing ADN, Nursing BSN, Radiologic Technology, Respiratory Therapy Technology, Physical Therapist Assistant Technology or Occupational Therapy Assistant Technology.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**NRST 10010 THERAPEUTIC USE OF SELF 1 Credit Hour**

Course focus is on the self-care of individuals, with emphasis on understanding human relationships in the promotion of self-care. Culture, values and past experiences as factors in communication are explored.

**Prerequisite:** NRST 10001 with a minimum C grade; and minimum 2.000 overall GPA; and nursing ADN major.

**Schedule Type:** Lecture

**Contact Hours:** 1 lecture

**Grade Mode:** Standard Letter

**NRST 20205 PSYCHOSOCIAL SELF CARE DEFICITS 3 Credit Hours**

Course focus is on providing mental health nursing care utilizing the nursing process for the emotionally ill client, family and community with psychiatric mental health needs. Emphasis is placed on understanding holistic human needs and promotion of the professional therapeutic nurse-client relationship.

**Prerequisite:** Minimum C grade in BSCI 11020, NRST 10003, NRST 10010, NUTR 23511 (or NUTR 33512) and PSYC 11762; and nursing ADN major; and minimum 2.000 overall GPA.

**Schedule Type:** Clinical Laboratory, Laboratory, Lecture

**Contact Hours:** 2 lecture, .333 lab, 2.667 other

**Grade Mode:** Standard Letter

**NRST 20206 NURSING AGENCY II 5 Credit Hours**

Course focuses on nursing care of adults with intermediate therapeutic self-care demands. Emphasis is placed on the nurse as a provider of care.

**Prerequisite:** Minimum C grade in BSCI 11020, BSCI 20021, NRST 10003, NRST 10010, NUTR 23511 (or NUTR 33512) and PSYC 11762; and nursing ADN major; and minimum 2.000 overall GPA.

**Schedule Type:** Clinical Laboratory, Laboratory, Lecture

**Contact Hours:** 2.5 lecture, 1.5 lab, 6 other

**Grade Mode:** Standard Letter

**NRST 20207 PSYCHOSOCIAL SELF-CARE DEFICITS 4 Credit Hours**

Course focus is on providing mental health nursing care utilizing the nursing process for the emotionally ill client, family and community with psychiatric mental health needs. Emphasis is placed on understanding holistic human needs and promotion of the professional therapeutic nurse-client relationships.

**Prerequisite:** Minimum C grade in NRST 10003, NUTR 33512 and PSYC 11762; and nursing ADN major; and minimum 2.000 overall GPA.

**Schedule Type:** Clinical Laboratory, Lecture

**Contact Hours:** 3 lecture, .333 lab, 2.667 other

**Grade Mode:** Standard Letter

**NRST 20208 NURSING AGENCY III 6 Credit Hours**

Course covers nursing care of individuals with complex therapeutic self-care demands. Emphasis is placed on the nurse as provider and manager of patient care.

**Prerequisite:** Minimum C grade in NRST 20205, NRST 20206 and NURS 20950; and nursing ADN major; and minimum 2.000 overall GPA.

**Schedule Type:** Clinical Laboratory, Combined Lecture and Lab

**Contact Hours:** 3 lecture, .5 lab, 8.5 other

**Grade Mode:** Standard Letter

**NRST 20209 MATERNAL/NEWBORN DEVELOPMENT SELF-CARE 2 Credit Hours**

Course covers nursing care of the expectant and newly-delivered family. The nursing approach acknowledges the mother's self-care abilities and dependent care agent role. Health deviations related to childbearing are incorporated.

**Prerequisite:** BSCI 11020, BSCI 20021, NRST 10003, NRST 10010, NURS 20950, NUTR 23511 (or NUTR 33512) and PSYC 11762; and nursing ADN major; and minimum 2.000 overall GPA.

**Schedule Type:** Clinical Laboratory, Laboratory, Lecture

**Contact Hours:** 1 lecture, 3 other

**Grade Mode:** Standard Letter

**NRST 20210 CHILD AND FAMILY DEVELOPMENT SELF-CARE 2 Credit Hours**

Course covers family-centered nursing care of children. Developmental self-care requisites and common health deviations are emphasized.

**Prerequisite:** Minimum C grade in NRST 20205, NRST 20206 and NURS 20950; and minimum 2.000 overall GPA.

**Schedule Type:** Clinical Laboratory, Combined Lecture and Lab

**Contact Hours:** 1 lecture, .4 lab, 2.6 other

**Grade Mode:** Standard Letter

**NRST 21095 SPECIAL TOPICS 2-4 Credit Hours**

(Repeatable for credit) Scheduled topic of interest to students and faculty.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 2-4 lecture

**Grade Mode:** Standard Letter

**NRST 21096 INDIVIDUAL INVESTIGATION IN NURSING 1-3 Credit Hours**

(Repeatable for a total of 18 hours) Readings and/or investigation of nursing topics supervised by nursing faculty.

**Prerequisite:** Special approval.

**Schedule Type:** Individual Investigation

**Contact Hours:** 3 other

**Grade Mode:** Satisfactory/Unsatisfactory



## Nutrition (NUTR)

### NUTR 10011 NUTRITIONAL OUTREACH: A HOW-TO FOR LIFE-LONG HEALTHY EATING 1 Credit Hour

Teaches basic nutrition information for healthy eating, including the important nutritional aspects of cooking, shopping, dining and disease prevention related to dietary intake.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 1 lecture

**Grade Mode:** Standard Letter

### NUTR 23012 INTRODUCTORY FOOD SCIENCE 3 Credit Hours

(Cross-listed with HM 23012) Principles of food preparation and quality evaluation, with an emphasis on food science concepts, nutrition, food consumption trends and government regulation.

**Prerequisite:** NUTR 23511.

**Schedule Type:** Laboratory, Lecture, Combined Lecture and Lab

**Contact Hours:** 2 lecture, 3 lab

**Grade Mode:** Standard Letter

### NUTR 23112 INTRODUCTION TO THE PROFESSION: NUTRITION AND DIETETICS 1 Credit Hour

Discusses academic requirements for the Nutrition major, the history of the nutrition profession as well as current credentialing and licensing requirements. Explores the opportunities within the field of dietetics. Teaches methods to document academic, personal and professional skills.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 1 lecture

**Grade Mode:** Standard Letter

### NUTR 23510 QUANTITY FOOD PRODUCTION, SERVICE AND SAFETY 3 Credit Hours

(Cross-listed with HM 23510) The application of management principles in quantity food production and service systems, including safety and sanitation; production forecasting and management; distribution; and service, commercial equipment and physical facilities. Introduction to inventory, recipe standardization and considerations of nutrition, quality and sustainability in quantity production.

**Prerequisite:** NUTR 23112.

**Schedule Type:** Laboratory, Lecture, Combined Lecture and Lab

**Contact Hours:** 2 lecture, 3 lab

**Grade Mode:** Standard Letter

### NUTR 23511 SCIENCE OF HUMAN NUTRITION (KBS) 3 Credit Hours

Basic concepts and principles in the science of human nutrition, energy balance and weight control, individual nutrient needs, diet selection, nutrition related metabolism and physiological functions, nutritional diseases and current human nutrition controversies.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Kent Core Basic Sciences, TAG Health

### NUTR 33512 INTERMEDIATE NUTRITION SCIENCE 3 Credit Hours

Functions, sources, utilization and interactions of essential nutrients and associated physiology. Principles of designing a healthy diet using dietary standards and guidelines while considering nutrient needs of different populations.

**Pre/corequisite:** CHEM 20481 or CHEM 30481.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

### NUTR 33522 INTRODUCTION TO NUTRITION ASSESSMENT 3 Credit Hours

Application of nutrition principles, including nutrition-focused physical assessment, dietary intake assessment, nutrition surveys, introduction to medical records, nutrition interviewing, dietary standards and food exchange lists.

**Prerequisite:** NUTR 23511 and PSYC 11762 and SOC 12050; and nutrition major.

**Schedule Type:** Laboratory, Lecture, Combined Lecture and Lab

**Contact Hours:** 2 lecture, 2 lab

**Grade Mode:** Standard Letter

### NUTR 33532 BUSINESS AND MANAGEMENT OF NUTRITION SERVICES 3 Credit Hours

Course explores the business management side of dietetics. Covers application of management theories, from dietetic programs and services to budgeting, billing and coding, in addition to quality improvement in dietetics programs and departments.

**Prerequisite:** NUTR 23511.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

### NUTR 35319 NUTRITION, HEALTH AND SOCIETY 3 Credit Hours

Course explores the role of environment, food, nutrition and lifestyle choices in promoting health and preventing disease. Focus is on the fundamentals of public policy, including legislative and regulatory basis of nutrition and dietetics practices.

**Prerequisite:** NUTR 23511.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

### NUTR 41095 SPECIAL TOPICS IN NUTRITION 1-4 Credit Hours

(Repeatable for credit)(Slashed with NUTR 51095) Discussion of a major topic within a specific field in nutrition and dietetics. Topic varies per course offering.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 1-4 lecture

**Grade Mode:** Standard Letter

### NUTR 41096 INDIVIDUAL INVESTIGATION IN NUTRITION 1-3 Credit Hours

(Repeatable for credit) Students undertake an independent study in an area of nutrition and dietetics that is not covered by a regular course offering, with the guidance of a Kent State faculty member.

**Prerequisite:** Special approval.

**Schedule Type:** Individual Investigation

**Contact Hours:** 1-3 other

**Grade Mode:** Standard Letter



**NUTR 43013 RESEARCH AND STATISTICAL METHODS IN NUTRITION AND DIETETICS (WIC) 3 Credit Hours**

(Slashed with NUTR 53013) Student gain experience in research methods related to nutrition and dietetics, principles of experimental design, data analysis and techniques of scientific writing.

**Prerequisite:** NUTR 33512.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Writing Intensive Course

**NUTR 43016 WORLD FOOD CUSTOMS AND NUTRITION 3 Credit Hours**

(Slashed with NUTR 53016) Understanding the interrelationship between food and agricultural practices of racial, ethnic and religious populations globally.

**Prerequisite:** NUTR 23511 and SOC 12050.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**NUTR 43030 FOOD SERVICE SYSTEMS MANAGEMENT 3 Credit Hours**

(Slashed with NUTR 53030)(Cross-listed with HM 43030 and HM 53030) Food service systems management, including systems theory; menu planning and evaluation; procurement; food production systems; sustainability; layout and design basics. Management concepts in non-commercial food service, including financial control, marketing, quality, management, leadership and human resources.

**Prerequisite:** HM 23012 or NUTR 23012; and HM 23510 or NUTR 23510.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**NUTR 43511 MEDICAL NUTRITION THERAPY I 3 Credit Hours**

(Slashed with NUTR 53511) Exploration of the nutrition care process, including documentation, standardized language, nutrition assessment, interpretation of laboratory values and individualized patient care and planning for disease and nutrition needs. Students engage in case studies and nutrition assessment exercises.

**Prerequisite:** BSCI 30130 and CHEM 30284 and NUTR 33512.

**Schedule Type:** Laboratory, Lecture, Combined Lecture and Lab

**Contact Hours:** 2 lecture, 2 lab

**Grade Mode:** Standard Letter

**NUTR 43512 MACRONUTRIENT NUTRITIONAL BIOCHEMISTRY 3 Credit Hours**

(Slashed with NUTR 53512) Course explores the mechanisms through which the macronutrients meet biological needs and how these related to applied human nutrition.

**Prerequisite:** BSCI 30130 and CHEM 30284 and NUTR 33512.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**NUTR 43513 MICRONUTRIENT NUTRITIONAL BIOCHEMISTRY 3 Credit Hours**

(Slashed with NUTR 53513) Course explores the mechanisms through which micronutrients meet human biological needs in the relationship to underlying applied human nutrition.

**Prerequisite:** BSCI 30130 and CHEM 30284 and NUTR 33512.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**NUTR 43514 MEDICAL NUTRITION THERAPY II 3 Credit Hours**

(Slashed with NUTR 53514) Continued exploration of the nutrition care process, including relevant documentation, standardized language, nutrition assessment, interpretation of laboratory values and individualized patient care and planning for disease and nutritional needs. Students engage in case studies and nutritional assessments.

**Prerequisite:** NUTR 43511.

**Schedule Type:** Laboratory, Lecture, Combined Lecture and Lab

**Contact Hours:** 2 lecture, 2 lab

**Grade Mode:** Standard Letter

**NUTR 43515 COMMUNITY NUTRITION (ELR) 3 Credit Hours**

(Slashed with NUTR 53515) Introduction to nutrition problems and practices in the community. Principles and techniques of effective education, learning and behavior change theories and techniques. Includes an experiential laboratory component with a focus on planning, implementation, evaluation and outcomes in nutrition education, as well as nutrition communication, programming and counseling techniques.

**Prerequisite:** NUTR 33512 and NUTR 33522 and NUTR 33532.

**Schedule Type:** Laboratory, Lecture

**Contact Hours:** 2 lecture, 2 lab

**Grade Mode:** Standard Letter

**Attributes:** Experiential Learning Requirement

**NUTR 43518 LIFECYCLE NUTRITION 3 Credit Hours**

(Slashed with NUTR 53518) Explores the nutrition needs through growth, development and aging. Focus is on nutritional needs and issues during conception, pregnancy, lactation, infancy, childhood, adolescence, adulthood and older adulthood.

**Prerequisite:** NUTR 33512.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**NUTR 43520 SPORTS NUTRITION 3 Credit Hours**

(Slashed with NUTR 53520) Course focuses on the relationship between nutrition and exercise and the effect of nutrition on sports performance.

**Prerequisite:** NUTR 33512.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**NUTR 43521 FOOD CHOICES FOR PRESCRIBED DIETARY MODIFICATION 2 Credit Hours**

(Slashed with NUTR 53521) Adapting adequate normal diet in terms of food choices to accommodate prescribed food restriction or bodily dysfunction.

**Prerequisite:** NUTR 23511; course is not open to students in the nutrition major.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**NUTR 43522 INTEGRATIVE AND FUNCTIONAL NUTRITION 2 Credit Hours**

(Slashed with NUTR 53522) Introduces the foundations of integrative and functional medicine as it relates to nutrition. Includes personalized nutrition, nutrigenomics, complementary and alternative therapies, nutraceuticals and functional foods, in addition to the interaction of food on supplement and drug efficacy.

**Prerequisite:** NUTR 33512.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**NUTR 43523 NUTRITION AND DIETETICS: PROFESSIONAL PRACTICE**  
**1 Credit Hour**

Development of professional awareness. Evaluation of professional growth and formulation of plans for continued growth.

**Prerequisite:** Nutrition major; and senior standing.

**Schedule Type:** Lecture

**Contact Hours:** 1 lecture

**Grade Mode:** Standard Letter

**NUTR 43532 METHODS AND EXPERIENCES IN NUTRITION OUTREACH**  
**3 Credit Hours**

(Slashed with NUTR 53532) Students learn methods for development and evaluation techniques used for nutrition outreach programming; the role of community nutrition education in public health; and the impact of nutrition programming on disease prevention and management. Students engage in service learning opportunities in community nutrition education.

**Prerequisite:** Special approval.

**Schedule Type:** Field Experience, Lecture

**Contact Hours:** 2.5 lecture, .5 other

**Grade Mode:** Standard Letter

**NUTR 45092 PRACTICUM IN NUTRITION (ELR) 1-3 Credit Hours**

Application of education in pre-professional experience in clinical, community and nutrition foodservice environments. Combination of nutrition experiences throughout the semester.

**Prerequisite:** Special approval.

**Schedule Type:** Practical Experience

**Contact Hours:** 3-9 other

**Grade Mode:** Standard Letter

**Attributes:** Experiential Learning Requirement

**NUTR 45098 RESEARCH IN NUTRITION (ELR) 1-3 Credit Hours**

Students engage in research under the supervision of a nutrition faculty member. Students may develop a research idea or work on faculty-led research.

**Prerequisite:** Special approval.

**Schedule Type:** Research

**Contact Hours:** 3-9 other

**Grade Mode:** Standard Letter

**Attributes:** Experiential Learning Requirement

**NUTR 51095 SPECIAL TOPICS IN NUTRITION 1-4 Credit Hours**

(Repeatable for credit)(Slashed with NUTR 41095) Discussion of a major topic within a specific field in nutrition and dietetics. Topic varies per course offering.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 1-4 lecture

**Grade Mode:** Standard Letter

**NUTR 51096 INDIVIDUAL INVESTIGATION IN NUTRITION 1-3 Credit Hours**

(Repeatable for credit) Students undertake an independent study in an area of nutrition and dietetics that is not covered by a regular course offering, with the guidance of a Kent State faculty member.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Individual Investigation

**Contact Hours:** 1-3 other

**Grade Mode:** Standard Letter

**NUTR 53013 RESEARCH AND STATISTICAL METHODS IN NUTRITION**  
**3 Credit Hours**

(Slashed with NUTR 43013) Students gain experience in research methods related to nutrition and dietetics, principles of experimental design, data analysis and techniques of scientific writing.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**NUTR 53016 WORLD FOOD CUSTOMS AND NUTRITION 3 Credit Hours**

(Slashed with NUTR 43016) Understanding the interrelationship between food and agricultural practices of racial, ethnic and religious populations globally.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**NUTR 53030 FOOD SERVICE SYSTEMS MANAGEMENT 3 Credit Hours**

(Slashed with NUTR 43030)(Cross-listed with HM 43030 and HM 53030) Food service systems management, including systems theory; menu planning and evaluation; procurement; food production systems; sustainability; layout and design basics. Management concepts in non-commercial food service, including financial control, marketing, quality, management, leadership and human resources.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**NUTR 53511 MEDICAL NUTRITION THERAPY I 3 Credit Hours**

(Slashed with NUTR 43511) Exploration of the nutrition care process, including documentation, standardized language, nutrition assessment, interpretation of laboratory values and individualized patient care and planning for disease and nutrition needs. Students engage in case studies and nutrition assessment exercises.

**Prerequisite:** Graduate standing.

**Schedule Type:** Laboratory, Lecture, Combined Lecture and Lab

**Contact Hours:** 2 lecture, 2 lab

**Grade Mode:** Standard Letter

**NUTR 53512 MACRONUTRIENT NUTRITIONAL BIOCHEMISTRY 3 Credit Hours**

(Slashed with NUTR 43512) Course explores the mechanisms through which the macronutrients meet biological need and how these related to applied human nutrition.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**NUTR 53513 MICRONUTRIENT NUTRITIONAL BIOCHEMISTRY 3 Credit Hours**

(Slashed with NUTR 43513) Course explores the mechanisms through which micronutrients meet human biological needs in the relationship to underlying applied human nutrition.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**NUTR 53514 MEDICAL NUTRITION THERAPY II 3 Credit Hours**

(Slashed with NUTR 43514) Continued exploration of the nutrition care process, including relevant documentation, standardized language, nutrition assessment, interpretation of laboratory values and individualized patient care and planning for disease and nutritional needs. Students engage in case studies and nutritional assessments.

**Prerequisite:** Graduate standing.

**Schedule Type:** Laboratory, Lecture, Combined Lecture and Lab

**Contact Hours:** 2 lecture, 2 lab

**Grade Mode:** Standard Letter

**NUTR 53515 COMMUNITY NUTRITION 3 Credit Hours**

(Slashed with NUTR 43515) Introduction to nutrition problems and practices in the community. Principles and techniques of effective education, learning and behavior change theories and techniques. Includes an experiential laboratory component with a focus on planning, implementation, evaluation and outcomes in nutrition education, as well as nutrition communication, programming and counseling techniques.

**Prerequisite:** Graduate standing.

**Schedule Type:** Laboratory, Lecture, Combined Lecture and Lab

**Contact Hours:** 2 lecture, 2 lab

**Grade Mode:** Standard Letter

**NUTR 53518 LIFECYCLE NUTRITION 3 Credit Hours**

(Slashed with NUTR 43518) Explores the nutrition needs through growth, development and aging. Focus is on nutritional needs and issues during conception, pregnancy, lactation, infancy, childhood, adolescence, adulthood and older adulthood.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**NUTR 53520 SPORTS NUTRITION 3 Credit Hours**

(Slashed with NUTR 43520) Course focuses on the relationship between nutrition and exercise and the effect of nutrition on sports performance.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**NUTR 53521 FOOD CHOICES FOR PRESCRIBED DIETARY MODIFICATION 2 Credit Hours**

Adapting adequate normal diet in terms of food choices to accommodate prescribed food restriction or bodily dysfunction.

**Prerequisite:** NUTR 23511; course is not open to students in the nutrition major.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**NUTR 53522 INTEGRATIVE AND FUNCTIONAL NUTRITION 2 Credit Hours**

(Slashed with NUTR 43522) Introduces the foundations of integrative and functional medicine as it relates to nutrition. Includes personalized nutrition, nutrigenomics, complementary and alternative therapies, nutraceuticals and functional foods, in addition to the interaction of food on supplement and drug efficacy.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**NUTR 53532 METHODS AND EXPERIENCES IN NUTRITION OUTREACH 3 Credit Hours**

(Slashed with NUTR 43532) Students learn methods for development and evaluation techniques used for nutrition outreach programming; the role of community nutrition education in public health; and the impact of nutrition programming on disease prevention and management. Students engage in service learning opportunities in community nutrition education.

**Prerequisite:** Nutrition major; and graduate standing; and special approval.

**Schedule Type:** Field Experience, Lecture

**Contact Hours:** 2.5 lecture, .5 other

**Grade Mode:** Standard Letter

**NUTR 61018 TECHNIQUES OF RESEARCH IN FAMILY AND CONSUMER STUDIES 3 Credit Hours**

Introduction to the types of research and methods of data collection that are applied to a project of the student's choice.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**NUTR 61098 RESEARCH 1-15 Credit Hours**

(Repeatable for credit) Research for master's-level students. Credit earned may be applied toward meeting degree requirements with school approval.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Research

**Contact Hours:** 1-15 other

**Grade Mode:** Standard Letter-IP

**NUTR 61198 MASTER'S PROJECT 2-6 Credit Hours**

(Repeatable for credit) Completion and successful defense of a master's project. Master's project students must register for a total of 6 hours, 2 to 6 hours in a single semester distributed over several semesters if desired.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Master's Project

**Contact Hours:** 2-6 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**NUTR 63199 THESIS I 2-6 Credit Hours**

Thesis students must register for a total of 6 hours, 2 to 6 hours in a single semester distributed over several semesters if desired.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Masters Thesis

**Contact Hours:** 2-6 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**NUTR 63299 THESIS II 2 Credit Hours**

Students must continue registration each semester until all degree requirements are met.

**Prerequisite:** NUTR 63199; and graduate standing.

**Schedule Type:** Masters Thesis

**Contact Hours:** 2 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**NUTR 63519 ADVANCED STUDY OF MICRONUTRIENTS 3 Credit Hours**

Course covers intake, digestion and absorption of nutrients.

**Prerequisite:** Nutrition major; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**NUTR 63520 MACRONUTRIENT NUTRITION 3 Credit Hours**

Course covers metabolic utilization of macronutrients for body processes.

**Prerequisite:** Nutrition major; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**NUTR 63521 NUTRITION AND DISEASE: CLINICAL APPLICATIONS 3 Credit Hours**

Recent trends and concepts in research and practice of therapeutic dietetics.

**Prerequisite:** Nutrition major; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**NUTR 63524 PERSPECTIVE ON PREVENTION AND PRACTICE IN COMMUNITY NUTRITION 3 Credit Hours**

Explores the relationship between nutritional epidemiology and the research, policies and programs for the successful treatment and prevention of nutrition related disease in the United States. Focuses on the behavioral and learning theories used in successful nutrition interventions and grant writing to sustain community programs.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**NUTR 63525 DIETETIC PRACTICE: COMMUNITY 1 Credit Hour**

Discussion focusing on nutrition care in the community setting. Evaluation and interpretation of the scientific literature.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 1 lecture

**Grade Mode:** Standard Letter

**NUTR 63526 DIETETIC PRACTICE: MANAGEMENT 1 Credit Hour**

Discussion focusing on the management of food and nutrition services. Evaluation and interpretation of the scientific literature.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 1 lecture

**Grade Mode:** Standard Letter

**NUTR 63527 DIETETIC PRACTICE: CLINICAL 1 Credit Hour**

Discussion focusing on nutrition care in the acute practice setting. Evaluation and interpretation of the scientific literature.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 1 lecture

**Grade Mode:** Standard Letter

**NUTR 63591 NUTRITION SEMINAR 1-3 Credit Hours**

(Repeatable for credit) Evaluation and interpretation of recent literature in an area of nutrition. Topic varies per course offering.

**Prerequisite:** Graduate standing.

**Schedule Type:** Seminar

**Contact Hours:** 1-3 other

**Grade Mode:** Standard Letter

**NUTR 63592 DIETETIC INTERNSHIP 1-4 Credit Hours**

(Repeatable for credit) Supervised practice component of dietetic internship.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Practical Experience

**Contact Hours:** 12-48 other

**Grade Mode:** Satisfactory/Unsatisfactory

## Occupational Therapy Assistant Technology (OCAT)

**OCAT 10000 FOUNDATIONS IN OCCUPATIONAL THERAPY 2 Credit Hours**

Introduction to basic theoretical concepts, professional development, profession of occupational therapy, its place in the health care system, and the role and function of the Occupational Therapist and Occupational Therapist Assistant.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**OCAT 10001 OCCUPATIONAL THERAPY PRACTICE SKILLS II 3 Credit Hours**

Development of the OT practice skills in therapeutic use of occupation, including crafts, activity analysis, and basic documentation.

**Prerequisite:** OCAT 10003 with a minimum C grade.

**Schedule Type:** Laboratory, Lecture

**Contact Hours:** 2 lecture, 3 lab

**Grade Mode:** Standard Letter

**OCAT 10002 OCCUPATIONAL PERFORMANCE IN PSYCHOSOCIAL HEALTH 4 Credit Hours**

Application of occupational therapy assessment, skills and techniques in treatment programs concerned with psychosocial health.

**Prerequisite:** OCAT 10003 with a minimum C grade.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 3 lecture, 3 lab

**Grade Mode:** Standard Letter

**OCAT 10003 OCCUPATIONAL THERAPY PRACTICE SKILLS LABORATORY 1 Credit Hour**

Development of basic assessment and intervention skills as related to clients with physical and mental disabilities.

**Prerequisite:** Admission to technical study; and occupational therapist assistant technology majors.

**Schedule Type:** Laboratory

**Contact Hours:** 3 lab

**Grade Mode:** Standard Letter

**OCAT 10004 OCCUPATIONAL THERAPY ASSISTANT TERMINOLOGY 1 Credit Hour**

An introduction to key terms utilized in occupational therapy and rehabilitation settings. Emphasis is on increasing professional understanding of occupational therapy terminology including related medical terminology found in professional documentation. Student is introduced to Occupational Therapy Practice Framework terminology.

**Prerequisite:** Occupational therapy assistant technology major.

**Schedule Type:** Lecture

**Contact Hours:** 1 lecture

**Grade Mode:** Standard Letter

**OCAT 10010 PROFESSIONALISM IN HEALTHCARE 1 Credit Hour**

Provides information concerning professional behaviors, character traits, work ethics and communication skills that OTAs will need as they interact with other healthcare professionals. Students need to understand the importance of being professional, competent, ethical and legal.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 1 lecture

**Grade Mode:** Standard Letter

**OCAT 10092 THERAPEUTIC TECHNIQUES - FIELDWORK 1A (ELR) 1 Credit Hour**

Under the supervision of personnel in selected facilities or agencies, the student will apply knowledge, skills and techniques acquired in the concurrent OCAT therapeutic technique courses.

**Prerequisite:** OCAT 10003 with a minimum C grade.

**Schedule Type:** Practical Experience

**Contact Hours:** 5.6 other

**Grade Mode:** Satisfactory/Unsatisfactory

**Attributes:** Experiential Learning Requirement

**OCAT 20000 OCCUPATIONAL PERFORMANCE IN PHYSICAL HEALTH 4 Credit Hours**

Application of occupational therapy assessment, skills and techniques in treatment program specifically concerned with physical health.

**Prerequisite:** OCAT 10001 and OCAT 10002 with a minimum C grade.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 3 lecture, 3 lab

**Grade Mode:** Standard Letter

**OCAT 20001 OCCUPATIONAL THERAPY MANAGEMENT AND LEADERSHIP SKILLS 2 Credit Hours**

Introduction to management and leadership issues in occupational therapy practice, including ethics, licensure, reimbursement related to practice settings, research and skills required for performance of administrative tasks in an occupational therapy department.

**Prerequisite:** OCAT 10002.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**OCAT 20003 OCCUPATIONAL THERAPY PRACTICE SKILLS III 3 Credit Hours**

Development of the occupational therapy practice skills including therapeutic use of occupation, leisure, adapting equipment and environment, therapeutic exercises, activity analysis and documentation.

**Prerequisite:** OCAT 10001 and OCAT 10002.

**Schedule Type:** Laboratory, Lecture

**Contact Hours:** 2 lecture, 3 lab

**Grade Mode:** Standard Letter

**OCAT 20004 OCCUPATIONAL PERFORMANCE IN PEDIATRIC POPULATIONS 3 Credit Hours**

Application of occupational therapy assessment, skills and techniques applied to pediatric populations and conditions.

**Prerequisite:** OCAT 20000.

**Schedule Type:** Laboratory, Lecture

**Contact Hours:** 2 lecture, 3 lab

**Grade Mode:** Standard Letter

**OCAT 20006 OCCUPATIONAL PERFORMANCE IN PHYSICAL HEALTH II 3 Credit Hours**

Continued application of occupational therapy assessment, skills and techniques in treatment programs related to physical health.

**Prerequisite:** OCAT 10002 and OCAT 20000 with a minimum C grade.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 2 lecture, 3 lab

**Grade Mode:** Standard Letter

**OCAT 20092 THERAPEUTIC TECHNIQUES - FIELDWORK 1B (ELR) 1 Credit Hour**

Under the supervision of personnel in selected healthcare facilities or agencies, the student will apply knowledge, skills, and techniques acquired in the concurrent OCAT therapeutic techniques course.

**Prerequisite:** OCAT 10000 and OCAT 10002.

**Corequisite:** OCAT 20000.

**Schedule Type:** Practical Experience

**Contact Hours:** 5.6 other

**Grade Mode:** Satisfactory/Unsatisfactory

**Attributes:** Experiential Learning Requirement

**OCAT 20192 CLINICAL APPLICATIONS I (ELR) 4 Credit Hours**

Under the supervision of personnel in selected healthcare agencies, the student will apply knowledge, skills and techniques acquired in prior OCAT courses.

**Prerequisite:** Minimum C grade in OCAT 10000 and OCAT 10001 and OCAT 10002 and OCAT 20000 and OCAT 20001 and OCAT 20003 and OCAT 20006.

**Schedule Type:** Field Experience

**Contact Hours:** 20 other

**Grade Mode:** Satisfactory/Unsatisfactory

**Attributes:** Experiential Learning Requirement

**OCAT 20292 CLINICAL APPLICATIONS II (ELR) 4 Credit Hours**

Under the supervision of personnel in selected healthcare agencies, the student will apply knowledge, skills and techniques acquired in prior OCAT courses.

**Prerequisite:** OCAT 10000, OCAT 10001, OCAT 10002, OCAT 20000, OCAT 20001, OCAT 20003 and OCAT 20006.

**Schedule Type:** Practical Experience

**Contact Hours:** 20 other

**Grade Mode:** Satisfactory/Unsatisfactory

**Attributes:** Experiential Learning Requirement

**OCAT 21000 OCCUPATIONAL THERAPY LICENSURE PREPARATION 1 Credit Hour**

Students in the course are informed on how to prepare for their national certification exam and apply for licensure in preparation for practice as occupational therapy assistants. Content includes a brief review of occupational therapy concepts and theories, test taking, study strategies and practice of simulated exam questions.

**Prerequisite:** OCAT 20006.

**Schedule Type:** Seminar

**Contact Hours:** 1 lecture

**Grade Mode:** Standard Letter

**OCAT 21095 SPECIAL TOPICS IN OCCUPATIONAL THERAPIST ASSISTANT TECHNOLOGY 1-4 Credit Hours**

(Repeatable maximum 6 times for credit) Special topics in Occupational Therapy Assistant Technology; topics announced when scheduled.

**Prerequisite:** OCAT 10003.

**Schedule Type:** Lecture

**Contact Hours:** 1-4 lecture

**Grade Mode:** Standard Letter



**OCAT 21096 INDIVIDUAL INVESTIGATION IN OCCUPATIONAL THERAPIST ASSISTANT TECHNOLOGY 1-4 Credit Hours**

(Repeatable for credit) Individual study in Occupational Therapy Assistant Technology and related fields; open to OCAT majors.

**Prerequisite:** OCAT 10003.

**Schedule Type:** Individual Investigation

**Contact Hours:** 1-4 other

**Grade Mode:** Standard Letter-IP

## Office of Global Education (OGE)

**OGE 10095 SPECIAL TOPICS: STUDY ABROAD (ELR) 0 Credit Hours**

(Repeatable for credit) This course provides a vehicle for registering students enrolled in study-abroad programs involving Kent State University-approved exchanges with foreign universities.

**Prerequisite:** Special approval.

**Schedule Type:** Lecture

**Contact Hours:** 0 lecture

**Grade Mode:** Transfer

**Attributes:** Experiential Learning Requirement

## Office Technology (OTEC)

**OTEC 16620 WORD PROCESSING I 3 Credit Hours**

Builds expertise in creating business documents applying the basic features of popular word processing software. Emphasis on hands on experience.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**OTEC 16621 WORD PROCESSING II 3 Credit Hours**

Design and create documents by using advanced features of word processing software.

**Prerequisite:** OTEC 16620.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**OTEC 16625 BUSINESS PRESENTATIONS 3 Credit Hours**

Development and production of professional computer-projected presentation materials using popular software. Includes use of graphic design techniques, color layout design principles and transparencies.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**OTEC 16638 GOOGLE APPLICATIONS FOR ADMINISTRATIVE PROFESSIONALS 3 Credit Hours**

Introduction to Google Applications. Students will learn to create, modify and manage the various Google Applications; utilize Google Drive; and learn to apply Google Application skills in the work environment and for personal use.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**OTEC 16639 DATABASE APPLICATIONS 3 Credit Hours**

Concepts, terminology and use of current database software to manage and retrieve business information. Emphasis on hands-on experiences.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**OTEC 16640 ADVANCED DATABASE APPLICATIONS 3 Credit Hours**

Provides the student with the skills and knowledge on creating advanced queries, forms and reports. Students learn how to customize, automate and secure the database structure.

**Prerequisite:** OTEC 16639; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**OTEC 16680 COMPUTER KEYBOARDING 1 Credit Hour**

Basic keyboarding course using computers for students having no previous keyboarding instruction or a speed of less than 30 words a minute. To pass the course students must keyboard above 30 words a minute for three minutes with no more than three errors.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 1 lecture

**Grade Mode:** Standard Letter

**OTEC 26611 SPREADSHEET APPLICATIONS 3 Credit Hours**

Use of electronic spreadsheets from beginning to advanced applications that may prepare for software certification.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**OTEC 26622 DESKTOP PUBLISHING I 3 Credit Hours**

Study and application of the principles of proper document design using high-end desktop publishing software for newsletters, brochures, reports, forms and other computer-based business documents.

**Prerequisite:** OTEC 16620.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**OTEC 26623 DESKTOP PUBLISHING II 3 Credit Hours**

High-end layout design and illustration software. Includes advanced documents, Web publishing, makeovers, computer graphic concepts and formatting, image editing techniques and the use of color.

**Prerequisite:** OTEC 26622.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**OTEC 26635 ADMINISTRATIVE RESOURCE MANAGEMENT 3 Credit Hours**

Explores how office professionals can apply resource management skills to the areas of space/workflow, forms, budgetary control, staff and materials supplies.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**OTEC 26636 PROJECT MANAGEMENT FOR ADMINISTRATIVE PROFESSIONALS 1 Credit Hour**

Provides the basic tools needed to effectively manage projects and to automate and streamline such functions as resource allocation, work scheduling and communication. Project management software is used in the course.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 1 lecture

**Grade Mode:** Standard Letter

**OTEC 26638 BUSINESS COMMUNICATIONS 3 Credit Hours**

Theory and application of oral and written business communication with emphasis on business letters, reports, employment process, visual presentations and electronic communications. Basic word processing skills are suggested.

**Prerequisite:** ENG 11011 or HONR 10197.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**OTEC 26640 CURRENT TECHNOLOGIES 3 Credit Hours**

Current trends and technology for the marketplace from an end user perspective.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**OTEC 26650 MEDICAL BILLING PROCEDURES 3 Credit Hours**

Introductory course in the preparation of various medical documents and forms in the health care industry. Use of computers and various word processing software is included. This course requires a 30 clock hour internship.

**Prerequisite:** OTEC 26655 and OTEC 26656.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**OTEC 26655 ICD CODING 3 Credit Hours**

Basic medical coding using the current version of the ICD classification system and nomenclature.

**Prerequisite:** HED 14020.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**OTEC 26656 CPT CODING 3 Credit Hours**

Introduction to coding rules for the CPT and Level II coding systems, incorporating and applying ICD rules to code patient services.

**Prerequisite:** OTEC 26655.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**OTEC 26691 SEMINAR FOR ADMINISTRATIVE PROFESSIONALS 3 Credit Hours**

Refines job search strategies, integrates coursework with realistic office settings, presents interpersonal and ethical issues, provides outreach activities, and emphasizes career management.

**Prerequisite:** Sophomore standing.

**Schedule Type:** Seminar

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**OTEC 26692 INTERNSHIP FOR ADMINISTRATIVE PROFESSIONALS (ELR) 1-3 Credit Hours**

(Repeatable for a maximum of 4 credit hours) Supervised field experience of ten hours per week paid or seven hours per week unpaid in a business environment functioning as an administrative professional.

**Prerequisite:** Sophomore standing; and special approval.

**Schedule Type:** Practical Experience

**Contact Hours:** 7-21 other

**Grade Mode:** Standard Letter

**Attributes:** Experiential Learning Requirement

**OTEC 26695 SPECIAL TOPICS IN INFORMATION TECHNOLOGY FOR ADMINISTRATIVE PROFESSIONALS 1-3 Credit Hours**

(Repeatable for credit) Special topics in information technology topics for administrative professionals.

**Prerequisite:** Special approval.

**Schedule Type:** Lecture

**Contact Hours:** 1-3 lecture

**Grade Mode:** Standard Letter

**OTEC 26696 INDIVIDUAL INVESTIGATION: INFORMATION TECHNOLOGY FOR ADMINISTRATIVE PROFESSIONALS 1-3 Credit Hours**

(Repeatable for credit) Independent, in-depth research of an office technology topic supervised and coordinated by a program faculty member.

**Prerequisite:** 12 credit hours of OTEC courses; and special approval from a full-time office technology faculty member.

**Schedule Type:** Individual Investigation

**Contact Hours:** 1-3 other

**Grade Mode:** Standard Letter

## Pan-African Studies (PAS)

**PAS 10101 ELEMENTARY KISWAHILI I 4 Credit Hours**

This course is an introduction to Kiswahili in which students will learn the essentials of speaking, reading and writing the most extensively used language in East Africa.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 4 lecture

**Grade Mode:** Standard Letter

**PAS 10102 ELEMENTARY KISWAHILI II 4 Credit Hours**

Continuation of PAS 10101, aimed at advancing student knowledge and communication skills in Kiswahili by introducing Kiswahili literature, short narratives, proverbs, folktales.

**Prerequisite:** PAS 10101.

**Schedule Type:** Lecture

**Contact Hours:** 4 lecture

**Grade Mode:** Standard Letter

**PAS 15200 INTRODUCTION TO WEST AFRICAN CULTURES 3 Credit Hours**

Drawing on history, literature and social anthropology, students learn key events and places in W. Africa from the 9th century to the 19th century, covering the Trans-Atlantic Slave trade and the development of long distance networks, including Andalusian Spain, the trans-Saharan trade, the expulsion of Jews and Moors from Spain, state formation in W. Africa, and the role of Saharan–Savannah relations in the expansion of the Atlantic Slave Trade and the movement of European and African peoples to the Americas. The development of this Atlantic world assured the economic centrality of W. Europe and eventually the US, due to the immense transfer of labor and skills from W. Africa.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PAS 20001 INTRODUCTION TO PAN-AFRICAN STUDIES 3 Credit Hours**

This course uses an interdisciplinary approach to introduce students to the discipline and field of Pan-African Studies. Using primary source materials from literature, film and various art forms, students will be exposed to concepts, critical issues, events and major thinkers that have shaped the global Black world. Emphasis will be placed on the relationship between Peoples of African descent, Latin and Indigenous Peoples. Selected course materials represent the ways in which Peoples of African descent have demonstrated resiliency, activism and agency.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PAS 20101 KISWAHILI III 3 Credit Hours**

Continuation of Kiswahili II, aimed at developing knowledge competence and recognition of Kiswahili usage in all forms of Kiswahili literature.

**Prerequisite:** PAS 10102.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PAS 20102 KISWAHILI IV 3 Credit Hours**

Continuation of Kiswahili III, aimed at developing knowledge, competence and recognition of Kiswahili usage in all forms of Kiswahili literature.

**Prerequisite:** PAS 20101.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PAS 20200 RECOVERING THE PAST: KENT TO MEMPHIS (ELR) 3 Credit Hours**

Examines relevance of John Brown, Frederick Loudin and Fisk Jubilee Singers, and Ida B. Wells anti-lynching campaign today. Students travel to local Brown and Loudin sites, Harper's Ferry and Memphis.

**Prerequisite:** None.

**Schedule Type:** Field Experience, Lecture

**Contact Hours:** 2 lecture, 1 other

**Grade Mode:** Standard Letter

**Attributes:** Experiential Learning Requirement

**PAS 20300 BLACK IMAGES 3 Credit Hours**

Examines the historical origins of racial images and anti-black perceptions through newspapers, magazines, songs, plays, literature, textbooks, radio, television, films, comic books, etc. and the role of these images in American culture past and present.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PAS 22000 CREATIVE WRITING IN THE BLACK WORLD 3 Credit Hours**

Explores the major aesthetic and cultural issues that have historically shaped creative writing in the black world and begins by exploring the African Griot tradition. Students learn about the African-American tradition in literature as an organic part of the larger Pan-African world. Students are expected to write, perform, critique and produce original works in the modes and performance styles of the global African world.

**Prerequisite:** ENG 11011 or HONR 10197.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PAS 22101 AFRICAN AMERICAN VISUAL ARTISTS 3 Credit Hours**

An Afrocentric survey of visual and aural artistry, course examines cultural context and perspectives, mediums of expression, form, style, content and patronage of African American artists from 1800.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PAS 22200 INTRODUCTION TO THE AFRICAN ARTS 3 Credit Hours**

Investigation of function of creative forms of artistic expression particular to experiences of Pan-African community at home and abroad.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PAS 23001 BLACK EXPERIENCE I: BEGINNINGS TO 1865 (DIVG) (KHUM) 3 Credit Hours**

Study and analysis of the African experience prior to, and following the arrival of Africans in the New World. Emphasis on North and South America, Africa and Caribbean.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Diversity Global, Kent Core Humanities, Transfer Module Humanities

**PAS 23002 BLACK EXPERIENCE II: 1865 TO PRESENT (DIVD) (KHUM) 3 Credit Hours**

Covers the Black Experience from 1865 to the present, including events, ideas and persons in Africa, North and South America, and the Caribbean.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Diversity Domestic, Kent Core Humanities, Transfer Module Humanities

**PAS 23095 SPECIAL TOPICS IN PAN-AFRICAN LITERATURE AND COMMUNICATION SKILLS 1-4 Credit Hours**

(Repeatable for a maximum of 6 credit hours) Introduction to a current and specialized topic in Pan-African Literature and/or communication skills.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 1-4 lecture

**Grade Mode:** Standard Letter

**PAS 23310 NATIVE AMERICAN STUDIES 3 Credit Hours**

Study and analysis of Native American history, sovereignty and civil rights. Ensures an understanding of self-determination in the context of colonization, decolonization and neocolonization, through the use of Native American literature, philosophy, politics and other cultural outlets. Being that we all live in a broader community, students also examine historical and contemporary relationships with the African American community and other ethnic communities in the US.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PAS 24407 CARIBBEAN STUDIES (DIVG) 3 Credit Hours**

Focus on people of African descent in the West Indies and their way of life for the cultural contributions made to Pan-African communities.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Diversity Global

**PAS 25200 EAST AFRICAN-KISWAHILI CULTURES 3 Credit Hours**

Students learn about the relationship between the Kiswahili language and the cultures of East African peoples, especially those in Malawi, Mozambique, Zaire, Zambia and Zimbabwe. This includes geographical, historical and sociological perspectives and an analysis of common cultural elements (music, literature, proverbs).

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PAS 26000 THE LEGACY OF SLAVERY 3 Credit Hours**

Examines the legacy of slavery through literature about the Reconstruction and Jim Crow periods; the writings of Douglass, Washington, DuBois and Garvey; the impact of slavery on modern African American culture; and an investigation of the reparations issue.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PAS 26010 THE BLACK REVOLUTION 3 Credit Hours**

Under the umbrella of Afrocentrism, this course examines black revolutionary thought in the U.S. from historical, political, sociological and philosophical perspectives; beginning with the advent of the slave trade, it emphasizes the tools, dynamics and strategies used to ensure the success of the black revolution, which is depicted as still ongoing today and having many implications and ramifications for the future.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PAS 30001 CULTURAL EXPRESSIONS I 3 Credit Hours**

Exploration of African creative endeavors and cultures through traditionally integrated forms of music, dance and song. Some emphasis on the study of design, color and fashion merged with family, food and environment, as well as traditional African societies.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PAS 30010 AFRICAN AND AFRICAN-AMERICAN PHILOSOPHIES (DIVD) 3 Credit Hours**

(Cross-listed with PHIL 31070) Exploration of philosophical issues in African and African-American or Black thought systems. Topics may include the examination of the issue of the existence of a Black philosophy, the nature of traditional African knowledge, beliefs about personhood, the basis and rationality of witchcraft or other metaphysical beliefs, communalism, the nature of Black moral and aesthetic values, and contemporary analysis of race, racism, slavery, civil rights, pan-Africanism, and criticisms of colonialism, Black development, democratic governance and social policies regarding Blacks. Students with Junior standing or above, who have not taken a Philosophy course, should contact the department for a prerequisite override.

**Prerequisite:** One course in philosophy.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Diversity Domestic

**PAS 30310 BLACK HOLLYWOOD 3 Credit Hours**

Examines the complexities of race relations in the film industry and the need for "Hollywood" and Black filmmakers to create films for mainstream audiences with a multitude of themes from the African American experience in America and around the world.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PAS 30311 HIP HOP: THE SOCIAL, POLITICAL AND ECONOMIC INFLUENCES 3 Credit Hours**

Examines the social, political and economic influences of and on Hip-hop and analyzes the historical and current relationships between Hip-hop and mainstream America, including the role that corporate America has played. In-depth history of the culture and major pioneers and contributors.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PAS 31092 PRACTICUM IN AFRICAN THEATRE ARTS (ELR) 3-6 Credit Hours**

(Repeatable for a maximum of 12 credit hours) Exposes students to fundamental techniques of stage through auditory, visual and physical participation. (Students are evaluated in performance and related theater activities.)

**Prerequisite:** None.

**Schedule Type:** Practical Experience

**Contact Hours:** 3-6 other

**Grade Mode:** Standard Letter

**Attributes:** Experiential Learning Requirement

**PAS 32001 AFRICAN-AMERICAN LITERATURE TO 1900 3 Credit Hours**

(Cross-listed with ENG 33010) Study of African-American literature from its beginning to 1900, including such writers as Wheatley, J. Hammon, Terry, B. Hammon, Jones, Marrant, Allen, Hall, Walker, Truth, Garnet, Douglass, Delany, Harper, Stewart, Turner, Jacobs, Keckley, Brown, Wilson, Griggs, Chesnutt and Dunbar.

**Prerequisite:** ENG 21011 or HONR 10297.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PAS 32002 MODERN AFRICAN-AMERICAN LITERATURE 3 Credit Hours**

Study of African-American literature from the early twentieth century to the present. The authors include Toomer, Hughes, Larsen, Wright, Baldwin, Hansberry, Jones, Lorde, Walker, Morrison, Mosley, Youngblood and Carter.

**Prerequisite:** ENG 21011 or HONR 10297.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PAS 32050 AFRICAN LITERATURES (DIVG) 3 Credit Hours**

(Cross-listed with ENG 33015) Examines works of major 20th-century African, African American and Caribbean writers and intellectuals. Authors include Niane, Achebe, Emecheta, Prince, Hurston, Hughes, Césaire, Senghor, Soyinka and many others.

**Prerequisite:** ENG 11011 or HONR 10197.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Diversity Global

**PAS 33100 AFRICAN AMERICAN FAMILY IN HISTORICAL PERSPECTIVES (DIVD) 3 Credit Hours**

Examines social, political, cultural and historical factors that have influenced the development of African-American family organization, from African shores through the American experience.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Diversity Domestic

**PAS 33101 AFRICAN AMERICAN HISTORY: SLAVERY TO FREEDOM 3 Credit Hours**

(Cross-listed with HIST 31080) Survey of African American history from the colonial period to 1877. Course provides a general knowledge of the social, political and cultural history of African Americans from colonial times to the end of the Reconstruction.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PAS 33110 THE BLACK WOMAN: HISTORICAL PERSPECTIVES (DIVD) 3 Credit Hours**

Course surveys the experiences of African-American women throughout various periods of history, and their roles in shaping the social, economic, political and cultural development of societies.

**Prerequisite:** Sophomore standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Diversity Domestic

**PAS 33120 THE BLACK MAN: HISTORICAL PERSPECTIVES 3 Credit Hours**

Focuses on various roles of the African American man within the context of the African experience and the African diaspora.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PAS 33130 GENDER AND SEXUALITY IN AFRICA AND THE AFRICAN DIASPORA 3 Credit Hours**

Using lectures, videos, discussions, readings and application this course explores ways in which gender and sexuality in Africa and the African Diaspora have and can be constructed, performed, articulated and researched. Attention is also paid to the existence of LGBTQ identities within the global black community.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PAS 33171 THE AFRICAN AMERICAN COMMUNITY (DIVD) 3 Credit Hours**

Explores problems of African-American communities: public administration, transportation, health, public finance, crime and justice, geography, black/demography and education.

**Prerequisite:** Sophomore standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Diversity Domestic

**PAS 33200 ANCIENT AFRICAN CIVILIZATIONS 3 Credit Hours**

Examines the history of ancient African civilizations and their contributions to world history.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PAS 33310 LATINOS, THE AFRICAN DIASPORA AND AMERICAN SOCIETY (DIVD) 3 Credit Hours**

Introduction to Latino minorities. Focus on Mexican-Americans, Puerto Ricans and Cubans and African influences on Latino culture.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Diversity Domestic



**PAS 34000 INTRODUCTION TO AFRICAN WORLD VIEW (DIVG) 3****Credit Hours**

Investigates traditional African cosmological world views and aesthetics in global Africa. Students who do not have prerequisites may request permission from instructor.

**Prerequisite:** PAS 23001 or PAS 23002.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Diversity Global

**PAS 34100 ISLAMIC WEST AFRICA 3 Credit Hours**

Familiarizes students with the cultural and historical specificities of Islamic communities in West Africa. Beginning with the introduction of Islam into West Africa in the eighth century, this course takes a multi-disciplinary point of view and covers contemporary political issues as well as historical topics. Students are provided the analytical tools and documentation to understand contemporary religious issues in West Africa and the diversity in expression of thought and practice of Islamic West Africa.

**Prerequisite:** Sophomore standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PAS 34200 BLACK MUSIC REVISITED 3 Credit Hours**

This is a survey course in the appreciation of, as well as an investigation into, that Great Black Tradition in Music. Students explore contemporary Black music from Africa into the New World and consider African world music from the Blues, Gospel, Jazz to Bebop, Rhythm & Blues, Hip Hop and Afro-Beat to Reggae. Students also learn the significance of local and individual artists.

**Prerequisite:** PAS 23001 or PAS 23002.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PAS 35100 BLACK SOCIAL AND POLITICAL THOUGHT 3 Credit Hours**

Study of the history and nature of social and political thought of African Americans including an overview of various movements and individuals, as well as their strategies and tactics, in the struggle for social change in the U.S. as it relates to black people.

**Prerequisite:** Junior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PAS 35200 AFRICAN SOCIAL AND POLITICAL SYSTEMS 3 Credit Hours**

An African-centered focus on traditional African institutions as these interact with the Jihad Movements, Western European incursion, the slave trade, colonialism, independence movements and contemporary issues.

**Prerequisite:** Junior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PAS 37000 ORAL AND WRITTEN DISCOURSES IN PAN-AFRICAN STUDIES (WIC) 3 Credit Hours**

Examines the spoken and written English of African-Americans with some emphasis on mastering consensus English writing skills required in upper-division PAS courses.

**Prerequisite:** ENG 21011 or HONR 10297.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Writing Intensive Course

**PAS 37001 THEORETICAL APPROACHES TO PAN-AFRICAN STUDIES 3 Credit Hours**

A critical analysis of the diverse approaches to and underlying principles of Pan-African Studies.

**Prerequisite:** Sophomore standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PAS 37010 RESEARCH METHODS IN PAN-AFRICAN STUDIES (ELR) 3 Credit Hours**

This course will expose students to the basic components of research methods in Pan-African studies utilizing multidisciplinary approaches.

**Prerequisite:** PAS 37000 and PAS 37001.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter-IP

**Attributes:** Experiential Learning Requirement

**PAS 37020 THE MODEL AFRICAN UNION (ELR) 3 Credit Hours**

Students examine role, structure and performance of the African Union in the search for solutions to key economic, social and political-security issues facing Africa. Students attend the annual meeting of the Model African Union Conference in Washington D.C., which is a simulation of proceedings of the African Union, augmented by briefings at African Embassies. Participants gain an understanding of the various determinants, capabilities and constraints shaping the domestic and foreign policies of African countries.

**Prerequisite:** Sophomore standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Experiential Learning Requirement

**PAS 37100 PAN-AFRICAN WOMEN'S LITERATURE (DIVG) 3 Credit Hours**

(Cross-listed with ENG 33013) Introduces students to literary works by African and Caribbean women.

**Prerequisite:** ENG 11011 or HONR 10197.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Diversity Global

**PAS 37150 THE UNDERGROUND RAILROAD 3 Credit Hours**

Examines the Underground Railroad and its impact as an American phenomenon.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PAS 37200 AFRICAN-AMERICAN WOMEN'S LITERATURE 3 Credit Hours**

(Cross-listed with ENG 33014) Introduces students to literary works by African-American women.

**Prerequisite:** ENG 11011 or HONR 10197.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PAS 40001 CULTURAL EXPRESSIONS II 3 Credit Hours**

This course continues Cultural Expressions I in greater depth and sophistication: Exploration of African creative endeavors and cultures through traditionally integrated forms of music, dance and song. Some emphasis on the study of design, color and fashion merged with family, food and environment, as well as traditional African societies.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PAS 40120 CONTEMPORARY ISSUES IN AFRICAN-AMERICAN EDUCATION 3 Credit Hours**

This course examines the interrelationship of contemporary issues and the education of people of African descent.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PAS 41192 PRACTICUM IN AFRICAN AMERICAN AFFAIRS (ELR) 1-12 Credit Hours**

(Repeatable for a maximum of 12 credit hours) Guided involvements in urban areas with large African-American populations to provide experience with community service, government agencies, public and private schools, non-profit organizations, etc.

**Prerequisite:** None.

**Schedule Type:** Practical Experience

**Contact Hours:** 3-36 other

**Grade Mode:** Standard Letter-IP

**Attributes:** Experiential Learning Requirement

**PAS 43095 SPECIAL TOPICS IN PAN-AFRICAN LITERATURE, ARTS AND CULTURES 3 Credit Hours**

(Repeatable for credit) Broadens upper division offerings in holistic study and performance in Pan-African literatures, arts and cultures.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PAS 43100 RACE, CLASS AND FEMINIST THOUGHT 3 Credit Hours**

Explores issues of race, class and gender through the lens of Black women and feminists of color.

**Prerequisite:** Junior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PAS 43200 MALCOLM AND MARTIN 3 Credit Hours**

A critical study of the major ideas and doctrines, including religious and theological beliefs, of Malcolm X and Martin L. King and their roles in American history.

**Prerequisite:** Junior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PAS 43395 SPECIAL TOPICS IN AFRICAN DIASPORA STUDIES 3 Credit Hours**

(Repeatable for a maximum of 12 credit hours) Study of selected topics related to people of African descent outside of the African continent including, but not limited to the Americas and Europe.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PAS 44095 SPECIAL TOPICS IN CONTEMPORARY AFRICA 3 Credit Hours**

(Repeatable for a total of 12 credit hours when topic varies) Study of selected topics related to contemporary Africa.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PAS 47091 SENIOR SEMINAR IN PAN-AFRICAN STUDIES (WIC) 3 Credit Hours**

Students prepare a capstone portfolio of their work to be presented to PAS faculty and develop individual topical PAS research papers for presentation before departmental faculty, students and general public.

**Prerequisite:** PAS 37010.

**Schedule Type:** Seminar

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**Attributes:** Writing Intensive Course

**PAS 47095 SPECIAL TOPICS IN THEORETICAL AND APPLIED RESEARCH 3 Credit Hours**

(Repeatable for a maximum of 12 credit hours) Selected topics in the intellectual, cultural, political and historical development of Pan-Africanism, its diverse theoretical approaches and multiple applications including the Organization of African Unity.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PAS 49093 VARIABLE TITLE WORKSHOP IN PAS 2-6 Credit Hours**

(Repeatable for credit)

**Prerequisite:** Special approval.

**Schedule Type:** Workshop

**Contact Hours:** 2-6 other

**Grade Mode:** Satisfactory/Unsatisfactory

**PAS 49095 SELECTED TOPICS 2,3 Credit Hours**

(Repeatable for credit) Scheduled topic announced. Intended to encourage further study in areas not treated adequately in standard courses. Offered irregularly by available or visiting faculty.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 2-3 lecture

**Grade Mode:** Standard Letter-IP

**PAS 49096 INDIVIDUAL INVESTIGATION 1-3 Credit Hours**  
(Repeatable once for credit) Research in areas of interest not available in departmental courses. Approval by faculty member or chairperson necessary prior to registration.

**Prerequisite:** Junior or senior standing.

**Schedule Type:** Individual Investigation

**Contact Hours:** 1-3 other

**Grade Mode:** Standard Letter-IP

## Paralegal Studies (PLST)

**PLST 18000 INTRODUCTION TO PARALEGAL STUDIES AND PROFESSIONAL ETHICS 3 Credit Hours**

An overview of the legal system and the role of a paralegal professional. Includes legal terminology, types of laws, research, litigation, interviewing and office management.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PLST 28001 LEGAL RESEARCH AND WRITING 3 Credit Hours**

In-depth analysis of the legal research process, development of legal writing skills, opportunities to utilize research and writing skills are integrated into the course.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PLST 28003 FAMILY LAW AND PROCEDURE 3 Credit Hours**

Designed to acquaint the student with family law substance and practice. Covers definitions, terminology, topical areas and the philosophy underlying family law practice.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PLST 28004 PRINCIPLES AND PRACTICE OF LITIGATION 3 Credit Hours**

Provides an introduction to the rules of civil procedure, statutes of limitation, and discovery. Included in this course is a discussion of the role of the paralegal in preparation for litigation.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PLST 28007 ESTATE AND PROBATE ADMINISTRATION 3 Credit Hours**

A study of legal principles applicable to wills, organization and jurisdiction of probate court, estate administration in probate and tax considerations in estate administration.

**Prerequisite:** PLST 18000.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PLST 30000 ENVIRONMENTAL PROTECTION REGULATIONS AND ASSESSMENT 3 Credit Hours**

The Federal and State environmental regulations including the National Environmental Policy Act, the Clean Air Act, the Clean Water Act, Solid and Hazardous Waste regulations (RCRA) and the Superfund Legislation require the utilization of trained environmental professionals to conduct Environmental Site Assessments (ESAs). The focus of this course is to introduce students to the methods and approaches for conducting environmental research and study of industrial sites with respect to environmental policies and regulations. The enforcement of regulations utilize environmental professionals who serve in governmental agencies, work in private environmental companies that provide assessments and consultations for industries, and who are employed by industries that seek qualified employees to conduct assessments, and provide professional guidance for industrial regulatory compliance.

**Prerequisite:** Junior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PLST 35001 ENVIRONMENTAL LAW FOR PARALEGALS 3 Credit Hours**

Acquaints the student with the various federal and state statutes, administrative rules and case law that govern environmental regulation. International environmental law is also studied.

**Prerequisite:** Sophomore standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PLST 35003 HEALTH LAW 3 Credit Hours**

Makes the student familiar with legal topics in the field of health care including federal and state statutes governing the health care industry in the United States. Specific topics include insurance, privacy, malpractice, fraud, Medicare, Medicaid, health records, labor law-related issues and clinical research.

**Prerequisite:** Sophomore standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PLST 35005 LABOR AND EMPLOYMENT LAW FOR PARALEGALS 3 Credit Hours**

Provides a foundation in the areas of labor law, employment law, and employment discrimination law. Requires in-depth study of constitutional, statutory, administrative, and case law at both the federal and state level.

**Prerequisite:** Sophomore standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PLST 35007 ENERGY AND NATURAL RESOURCES LAW 3 Credit Hours**

Acquaints the student with the various sources of law that govern energy production and the harvesting of natural resources in the United States. Statutory, administrative, and case law at the federal and state levels are explored.

**Prerequisite:** Sophomore standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PLST 36792 INTERNSHIP IN PARALEGAL (ELR) 3-12 Credit Hours**  
(Repeatable for credit) Work experience under direction of supervising faculty member in the following entities: private law firms, legal service/legal aid offices, law departments or corporations and government agencies.

**Prerequisite:** PLST 18000 and 28001 and 28004.

**Schedule Type:** Practical Experience

**Contact Hours:** 21-84 other

**Grade Mode:** Standard Letter-IP

**Attributes:** Experiential Learning Requirement

**PLST 38003 ADMINISTRATIVE LAW AND PROCESS 3 Credit Hours**

The substantive and procedural aspects of administrative law are covered in this course. Specific topics include the regulation of public utilities, transportation agencies, employment, food and drugs and the environment.

**Prerequisite:** Sophomore standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PLST 38005 TORT LAW 3 Credit Hours**

Focus is on tort and personal injury law. Specific topics include intentional torts, negligent torts, strict liability, vicarious liability, product liability and business torts. Defenses to tort and product liability are also discussed.

**Prerequisite:** Sophomore standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PLST 38006 APPLIED LEGAL RESEARCH AND LITIGATION (WIC) 3 Credit Hours**

Provides for intense case analysis and preparation of argumentative memorandum, including writing of factual memoranda, file summaries and advocacy letters.

**Prerequisite:** PLST 28001.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Writing Intensive Course

**PLST 42701 EVIDENCE AND E-DISCOVERY 3 Credit Hours**

Addresses the various issues concerning the use of evidence in the pre-trial, trial, and post-trial phases of litigation. The course will address the traditional rules and issues associated with litigation practice as well as the new issues concerning electronic discovery of evidence and the use of that evidence.

**Prerequisite:** PLST 28001; and PLST 28004.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PLST 42705 BANKRUPTCY LAW I: BASIC FUNDAMENTALS 3 Credit Hours**

Provides an outlay of the fundamentals of bankruptcy law including the basic rules of the Chapter 7, Chapter 11, and Chapter 13 forms of bankruptcy. This course will also cover other topics such as the bankruptcy petition, the role of the bankruptcy trustee, and discharge from bankruptcy.

**Prerequisite:** Sophomore standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PLST 42706 BANKRUPTCY LAW II: CREDITOR-DEBTOR RELATIONS 3 Credit Hours**

Addresses issues not addressed in PLST 42705 including Chapter 9, Chapter 12, and Chapter 15 bankruptcy as well as the problems associated with gaining and collecting on a judgment. International bankruptcy issues will also be addressed.

**Prerequisite:** PLST 42705.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PLST 42708 REAL ESTATE LAW 3 Credit Hours**

Provides a general outlay of real estate law in the United States. Students will learn the substantive and procedural aspects of gaining and protecting property rights. Real estate contracts, financing, zoning, and landlord-tenant issues will also be covered.

**Prerequisite:** Sophomore standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PLST 48002 CONTRACT LAW 3 Credit Hours**

Intended to provide the student with an in-depth analysis of basic contract law as such related to contract information, performance and remedies. Also intended to familiarize the student with the sources of law that define contracts with an emphasis on reading and understanding case law. The student also develops a vocabulary of legal terms so that the student may assist the legal practitioner in the representation of clients in business transactions and in disputes.

**Prerequisite:** Sophomore standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PLST 48300 LAW OF CORPORATIONS AND OTHER ASSOCIATIONS 3 Credit Hours**

Covers the formation, operation and dissolution of various kinds of business organizations. Subjects covered include sole proprietorships, corporations, partnerships, the law of agency and employment agreements.

**Prerequisite:** Sophomore standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PLST 48401 PATENT LAW 3 Credit Hours**

Provides the student with an in-depth analysis of the law pertaining to patents, stressing the ability of the owner to protect their rights through filing, registration and use. International issues concerning registration, use, and trade agreements are also covered.

**Prerequisite:** Sophomore standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PLST 48403 PATENT PROSECUTION 3 Credit Hours**

Students learn to craft patent claims in various types of patent applications that would be submitted to the U.S. Patent and Trademark Office. Students also learn the mechanics of various types of patent applications including traditional applications, provisional applications, divisional applications and continuing applications. Students also gain an understanding of the various post-grant proceedings.

**Prerequisite:** PLST 48401; and sophomore standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PLST 48404 COPYRIGHT LAW I 3 Credit Hours**

(Slashed with PLST 58404) Intended to provide the student with an in-depth analysis of the foundations of the law pertaining to copyrights. Stresses the ability of the owner to protect such rights through use and registration. Also discusses the links to patent law, trademark law and the law of trade secrets.

**Prerequisite:** Sophomore standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PLST 48407 TRADEMARK LAW 3 Credit Hours**

(Slashed with PLST 58407) Intended to provide the student with an in-depth analysis of the law pertaining to trademarks and trade secrets. Stresses the ability of the owner to protect such rights through use and registration. Also discusses the links to patent law and copyright law.

**Prerequisite:** Sophomore standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PLST 48408 TRADEMARK PROSECUTION 3 Credit Hours**

Covers the substantive and procedural aspects of trademark prosecution at the state, federal, and international levels. Special attention will be paid to the topics of drafting the trademark application and conducting searches of existing trademarks in the United States and abroad.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PLST 58404 COPYRIGHT LAW I 3 Credit Hours**

(Slashed with PLST 48404) Intended to provide the student with an in-depth analysis of the foundations of the law pertaining to copyrights. Stress the ability of the owner to protect such rights through use and registration. Also discusses the links to patent law, trademark law and the law of trade secrets.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PLST 58407 TRADEMARK LAW 3 Credit Hours**

(Slashed with PLST 48407) Intended to provide the student with an in-depth analysis of the law pertaining to trademarks and trade secrets. The course will stress the ability of the owner to protect such rights through use and registration. The course will also discuss the links to patent law and copyright law.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

## Peace and Conflict Studies (PACS)

**PACS 11001 INTRODUCTION TO CONFLICT MANAGEMENT (DIVD) (KSS) 3 Credit Hours**

Introduces key elements of conflict management theory and peacebuilding practice such as conflict styles, active listening, assertion, collaborative problem solving, principled negotiation, mediation and nonviolent conflict intervention. These are essential "life skills" useful in personal, social and professional contexts. Includes conflict communication skills development and practice.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Diversity Domestic, Kent Core Social Sciences, Transfer Module Social Sciences

**PACS 30000 MAY 4 1970 AND ITS AFTERMATH 3 Credit Hours**

(Cross-listed with POL 30000) Study of the events of the 1960s in the US leading up to May 4, 1970 when the Ohio National Guard killed and wounded KSU students protesting the US war in Vietnam and Cambodia. Topics are considered within their cultural, historical, social and political contexts. Also examines the aftermath of May 4th, including the controversy over constructing the Gym Annex on the May 4th site, the legal trials, the role of commemorations and memorials and the politics of remembering May 4, 1970.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PACS 31002 GENDER, POWER AND CONFLICT 3 Credit Hours**

Examines gender roles and power imbalances in interpersonal relationships, group settings, and on the structural level and the various manifestations of violence that may result, considering some of the ways in which these imbalances are developed, maintained and constructively addressed and potentially redressed.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PACS 31003 NONVIOLENCE: THEORY AND PRACTICE 3 Credit Hours**

Social conflicts can be intensified and waged in a constructive manner through nonviolent action. Examines how nonviolent action methods bring about social and political change. Explores the theory and philosophy underlying strategies of nonviolent action. Utilizes a wide variety of historical and contemporary case examples of nonviolent struggles from across the globe.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PACS 31010 CONFLICT THEORY 3 Credit Hours**

Explores the theoretical foundations of conflict and conflict management to provide a greater understanding of the nature, sources and dynamics of various types of conflict, the special challenges faced in addressing those conflicts, and the theory underlying various approaches to conflict management and resolution.

**Prerequisite:** PACS 11001.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter



**PACS 32020 STRATEGIC PLANNING 3 Credit Hours**

Provides training in the principles and tactics of strategic planning for individuals, organizations, agencies and institutions. Students learn to apply the principles of conflict management to strategic planning, including assessing the current environment, developing goals and objectives and establishing a timeline for acting on a strategic plan.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PACS 32030 INTERNATIONAL CONFLICT RESOLUTION (DIVG) 3 Credit Hours**

Examines causes, expressions and consequences of international conflicts, exploring mechanisms of their prevention, management and resolution. Includes the appearance and development of these conflicts and early warning, negotiation, and peacekeeping and peacebuilding. Covers international and civil wars and topics such as international terrorism.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Diversity Global

**PACS 32040 CROSS-CULTURAL CONFLICT MANAGEMENT (DIVG) 3 Credit Hours**

Examines cultural components of conflicts in diverse, multi-cultural settings with special emphases on the nature and sources of cross-cultural conflicts, conflict escalation and de-escalation, and the roles of power disparities. Students examine their own cultural assumptions in order to better understand the multiple effects that cultural dynamics have in conflicts. Case analyses will include conflict resolution techniques respectful of the cultural values of the parties in conflict.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Diversity Global

**PACS 33030 CONFLICT IN THE WORKPLACE 3 Credit Hours**

Explores the causes, impact and dynamics of conflict in the workplace. Issues explored include personality conflict, incivility, ethics, teams, management style, diversity, legal issues, alternative dispute resolution, union environments and workplace violence.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PACS 34010 CAREER PATHWAYS IN PEACE AND CONFLICT STUDIES 3 Credit Hours**

So what does one do with a major or minor in peace and conflict studies? How does one find a job or internship in the field? This course encourages students to explore and critically examine how the skills and knowledge learned in Peace and Conflict Studies courses can be utilized and applied in real-world settings. Students will interact with alumni and professionals working in a variety of careers that utilize conflict management and related skills. They will learn how to do professional networking, create a career plan, develop job search strategies, and learn how to market their skills and knowledge. Students will complete the course with a career plan, a detailed identification and exploration of options, or another career-related project.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PACS 35050 ENVIRONMENTAL CONFLICT RESOLUTION 3 Credit Hours**

(Cross-listed with POL 30350) Examines alternative dispute resolution principles applicable to complex, multi-party public sector disputes, especially environmental and land use disputes. Students learn about deliberative democracy, a variety of circle processes, consensus decision-making, collaborative problem-solving, digital dialogue processes, and town hall meeting structures among others. Case studies of environmental conflicts and multi-party mediation simulations are used.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PACS 35092 INTERNSHIP IN PEACE AND CONFLICT STUDIES (ELR) 1-9 Credit Hours**

(Repeatable for a total of 12 hours). Students work as interns with an organization, group, or business, utilizing and enhancing their skills in conflict management and applied peace studies. Three hours of internship is required for the Applied Peace and Conflict Studies major and is an elective for the Applied Peace and Conflict Studies minor.

**Prerequisite:** Completion of two upper-division PACS courses; and junior standing and; special approval.

**Schedule Type:** Practical Experience

**Contact Hours:** 3-27 other

**Grade Mode:** Standard Letter-IP

**Attributes:** Experiential Learning Requirement

**PACS 35095 SPECIAL TOPICS IN PEACE AND CONFLICT STUDIES 3 Credit Hours**

(Repeatable for credit) Designed to provide an in-depth examination of topics and issues of interest to faculty and students. Specific topics are announced in the Schedule of Classes and on the School of Peace and Conflict Studies web site.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PACS 36096 INDIVIDUAL INVESTIGATION IN PEACE AND CONFLICT STUDIES 3 Credit Hours**

(Repeatable for credit) Individualized program of study and literature review in area of particular interest to the student.

**Prerequisite:** Two upper-division PACS courses; and junior standing; and special approval.

**Schedule Type:** Individual Investigation

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter-IP

**PACS 41010 RECONCILIATION VERSUS REVENGE: TRANSITIONAL JUSTICE (DIVG) (WIC) 3 Credit Hours**

'Transitional justice' refers to civil and political processes used to move from violence and tyranny to peace and democracy. War crimes tribunals, truth and reconciliation commissions, apologies, forgiveness, reparations and memorials will be examined.

**Prerequisite:** PACS 32030; and 1 upper-division PACS course; and junior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Diversity Global, Writing Intensive Course

**PACS 42020 QUALITATIVE RESEARCH IN PEACE AND CONFLICT STUDIES (WIC) 3 Credit Hours**

An overview of qualitative research methods used to gather and analyze data in peace and conflict studies. Gives students experience in collecting and analyzing data and writing a major research paper.

**Prerequisite:** PACS 11001; and two upper-division PACS courses; and junior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Writing Intensive Course

**PACS 44040 NEGOTIATION 3 Credit Hours**

(Slashed with PACS 54040) Effective negotiation skills are essential for success in both our professional and personal lives. This course explores in an engaging and interactive way negotiation theories, strategies and techniques. Students will enhance their negotiation skills by learning to plan for an effective negotiation, to elicit information effectively, to build relationships, to improve their communication and persuasive abilities and to deal with a variety of situations and circumstances. There will be several opportunities to practice negotiation skills in class, to experiment with different approaches, and to develop the skills and confidence to be able to negotiate effectively and constructively.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PACS 45093 VARIABLE TOPIC WORKSHOP IN PEACE AND CONFLICT STUDIES 1-6 Credit Hours**

(Repeatable for a total of 6 credit hours) Variable topic offered as need arises. Specific topics will be announced in the Schedule of Classes and on the School of Peace and Conflict Studies website.

**Prerequisite:** Special approval.

**Schedule Type:** Workshop

**Contact Hours:** 1-6 other

**Grade Mode:** Satisfactory/Unsatisfactory

**PACS 48080 MEDIATION: THEORY AND TRAINING 3 Credit Hours**

(Slashed with PACS 58080) Provides training in mediation skills, principles and methods in an interactive way. Students examine the historical development of mediation and the uses of mediation in various contexts including family, business, labor-management, civil, community, and workplace disputes.

**Prerequisite:** PACS 11001.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PACS 49091 VARIABLE TITLE SEMINAR IN PEACE AND CONFLICT STUDIES 1-3 Credit Hours**

(Repeatable for a total of 3 credit hours) Seminar devoted to detailed study of various topics in the field of peace and conflict studies. Specific topics are announced in Schedule of Classes and on the School of Peace and Conflict Studies website.

**Prerequisite:** Junior standing.

**Schedule Type:** Seminar

**Contact Hours:** 1-3 other

**Grade Mode:** Standard Letter

**PACS 54040 NEGOTIATION 3 Credit Hours**

(Slashed with PACS 44040) Effective negotiation skills are essential for success in both our professional and personal lives. This course explores in an engaging and interactive way negotiation theories, strategies and techniques. Students will enhance their negotiation skills by learning to plan for an effective negotiation, to elicit information effectively, to build relationships, to improve their communication and persuasive abilities and to deal with a variety of situations and circumstances. There will be several opportunities to practice negotiation skills in class, to experiment with different approaches, and to develop the skills and confidence to be able to negotiate effectively and constructively.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PACS 58080 MEDIATION: THEORY AND TRAINING 3 Credit Hours**

(Slashed with PACS 48080) Provides training in mediation skills, principles and methods through cooperative, participatory, interactive, skills-building pedagogies. Students examine the historical development of mediation and the uses of mediation in various contexts including family, business, labor-management, civil, community, and workplace disputes.

**Prerequisite:** Graduate Standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

## Peace Officer Training Academy (POTA)

### POTA 11001 PEACE OFFICERS ACADEMY I 6 Credit Hours

This course studies the role of the peace officer, principles of the American criminal justice system, ethics and professionalism. This course also studies the Ohio criminal code, constitutional law, the tenets of civil liability to law enforcement. It also covers case investigation, forensic procedures, interviews, execution of search warrants and physical conditioning. The student will comply with all the student performance objectives and requisite proficiencies as mandated by the Ohio Peace Officer Training Commission curriculum.

**Prerequisite:** Admission into the peace officers academy training certificate program.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 18.5 lecture, 3.6 lab

**Grade Mode:** Standard Letter

### POTA 11002 PEACE OFFICERS ACADEMY II 5 Credit Hours

This course is designed to address the skills necessary for a first responder to administer aid and assistance in an emergency situation. Crowd control, HazMat, weapons of mass destruction, incident command systems and terrorism awareness is taught. Safe handling techniques and usage of firearms and they safety are covered. Students must demonstrate a measured skill level firing handguns and comply with all student performance objectives and requisite proficiencies as mandated by the Ohio Peace Officer Training Commission curriculum.

**Prerequisite:** Admission into the peace officers academy training certificate program.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 10.3 lecture, 8.4 lab

**Grade Mode:** Standard Letter

### POTA 11003 PEACE OFFICERS ACADEMY III 6 Credit Hours

This course studies the means of dealing with interpersonal communications and intervention with groups and individuals who require law enforcement involvement. Emphasis is placed on patrol techniques, the principles and application of defense and pursuit driving. Students are trained in the reasonable responses to resistance or aggression and are taught self-defense techniques. The student will comply with all the student performance objectives and requisite proficiencies as mandated by the Ohio Peace Officer Training Commission curriculum.

**Prerequisite:** Admission into the peace officers academy training certificate program.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 12 lecture, 9.6 lab

**Grade Mode:** Standard Letter

### POTA 11004 PEACE OFFICERS ACADEMY IV 5 Credit Hours

This course covers traffic enforcement, crash investigation, OVI enforcement, traffic technologies. Physical conditioning for law enforcement is mandatory. The student will comply with all the student performance objectives and requisite proficiencies as mandated by the Ohio Peace Officer Training Commission curriculum.

**Prerequisite:** Admission into the peace officers academy training certificate program.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 14.4 lecture, 3.6 lab

**Grade Mode:** Standard Letter

## Philosophy (PHIL)

### PHIL 11001 INTRODUCTION TO PHILOSOPHY (DIVG) (KHUM) 3 Credit Hours

An introduction to the diverse methods and subject matters in philosophy. Topics may include: What are the arguments for the existence of God? Do humans have free will? Can we know anything with certainty, and how do we know anything at all? Is what we see real, or might it be only an illusion? What makes a person a person - their mind, or their physical attributes? Is the mind the brain, or is it something else?

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Diversity Global, Kent Core Humanities, TAG Arts and Humanities, Transfer Module Humanities

### PHIL 11009 CRITICAL THINKING (KADL) 3 Credit Hours

Critical thinking is essential to every aspect of life, whether reading a news report or editorial, examining a contract or other legal document, or entering into a debate. This course teaches the strategies of "cognitive self-defense" that allow students to see past false claims and avoid being deceived by misleading rhetorical strategies. The course also examines the role of argument in reasoning, including types of arguments and the ways in which mistakes in reasoning can lead us astray. Examples from everyday life illustrate the sorts of complex reasoning that are a crucial part of practical decision-making.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Kent Core Additional

### PHIL 21001 INTRODUCTION TO ETHICS (DIVG) (KHUM) 3 Credit Hours

What makes an action morally right or morally wrong, and who gets to decide? Is ethics about performing actions that are morally right, or is it about being a virtuous person? This course examines at least three competing theories about ethics, including challenges to each theory. Students get to decide which theory they think is best, but every theory presents its own strengths and weaknesses.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Diversity Global, Kent Core Humanities, TAG Arts and Humanities, Transfer Module Humanities

**PHIL 21002 INTRODUCTION TO FORMAL LOGIC (KMCR) 3 Credit Hours**

This course is designed to sharpen students' reasoning skills and to help them better understand the structure of reasoning in general. To do this, it introduces students to some formal languages, such as Propositional Logic and Predicate Logic, that represent the logical structure of deductive reasoning. Unlike natural languages such as English, these formal languages allow students to focus on the general structure of different types of arguments, without discussing the content of any particular argument. Course covers both the construction of formal proofs in these languages, and translation between them and English. The study of formal logic contributes to effective and persuasive reasoning, not only in philosophy, but in any discipline or context. It also provides effective tools for evaluating the strength of English-language arguments. The skills that students acquire in this course are thus widely applicable in their personal, professional and academic lives.

**Prerequisite:** Minimum 35 ALEKS math score; or minimum 22 ACT math score; or minimum 530 SAT math score; or MATH 00022 with a minimum C grade.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Kent Core Mathematics and Critical Reasoning, Transfer Module Mathematics

**PHIL 30015 MEDICINE AND MORALITY 3 Credit Hours**

A philosophical exploration of at least three issues related to current medical practices, which may include ethical, religious, legal and clinical aspects. Topics may include: abortion, the use of genetic technologies, organ donation and transplantation, the use of human research subjects, or end-of-life decision-making.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PHIL 30025 ENVIRONMENTAL ETHICS (ELR) 3 Credit Hours**

A philosophical examination of ethical issues in environmental studies, including topics such as: animal ethics and the sources of our food; the value of nature and environmental aesthetics; sustainability and biodiversity; ecofeminism, social justice and radical ecology; and the human response to climate change. The course is designed to complement fields of study such as geography, environmental studies and biology. **Prerequisite:** Sophomore standing

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Experiential Learning Requirement

**PHIL 31001 ANCIENT GREEK PHILOSOPHY (WIC) 3 Credit Hours**

Examination of Greek thought from its inception through Plato, Aristotle, and later philosophers who were greatly influenced by them, but who also challenged their views. The ancients made the move from explanation based on myth to philosophical explanation - what did that move involve? How did the ancients answer questions about the nature of reality, what exists, the reliability of the senses, and the types of things in the world? How did they conceive of the good life?

**Prerequisite:** At least one of PHIL 11009 or PHIL 21002 or PHIL 41038; and at least one of PHIL 11001 or PHIL 21001.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Writing Intensive Course

**PHIL 31002 MEDIEVAL PHILOSOPHY (WIC) 3 Credit Hours**

Examination of issues in medieval thought, such as the existence and nature of God, the relationship between faith and reason, the problem of universals, and the nature of causality. Selections from philosophers such as Augustine, Boethius, Aquinas, Abelard, Avicenna, Duns Scotus, and William of Ockham.

**Prerequisite:** At least one of PHIL 11009 or PHIL 21002 or PHIL 41038; and at least one of PHIL 11001 or PHIL 21001.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Writing Intensive Course

**PHIL 31003 CONTINENTAL RATIONALISM (WIC) 3 Credit Hours**

Selections from rationalists such as Descartes, Spinoza, and Leibniz. The rationalists believed that the nature of reality was best understood using rational thought alone. What did they mean by this, and how did this belief shape their wider views of the world?

**Prerequisite:** At least one of PHIL 11009 or PHIL 21002 or PHIL 41038; and at least one of PHIL 11001 or PHIL 21001.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Writing Intensive Course

**PHIL 31004 BRITISH EMPIRICISM (WIC) 3 Credit Hours**

Selections from British Empiricists such as Locke, Berkeley, and Hume. The empiricists believed that reality was best understood using sensory evidence and observational methods. What do these human investigations tell us about the nature of properties, existence, and causation?

**Prerequisite:** At least one of PHIL 11009 or PHIL 21002 or PHIL 41038; and at least one of PHIL 11001 or PHIL 21001.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Writing Intensive Course

**PHIL 31005 GERMAN CRITICAL PHILOSOPHY (WIC) 3 Credit Hours**

Selections from philosophers such as Kant, Fichte, and others who began the movement known as German idealism. These thinkers emphasized a turn towards mind as constructing the world as it appears to us.

**Prerequisite:** At least one of PHIL 11009 or PHIL 21002 or PHIL 41038; and at least one of PHIL 11001 or PHIL 21001.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Writing Intensive Course

**PHIL 31006 NINETEENTH-CENTURY PHILOSOPHY (WIC) 3 Credit Hours**

Nineteenth-century philosophy is primarily a response to German idealism. Questions in social and political philosophy, as well as in metaphysics and epistemology, are considered in the works of philosophers such as Hegel, Schelling, Schopenhauer, Marx, Kierkegaard, and Nietzsche.

**Prerequisite:** At least one of PHIL 11009, 21002, 41038; and at least one of PHIL 11001, 21001.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Writing Intensive Course

**PHIL 31010 TWENTIETH-CENTURY PHILOSOPHY (WIC) 3 Credit Hours**

Selections from representatives of the most influential schools of thought within twentieth-century philosophy; for example, existentialists such as Sartre, pragmatists such as Dewey, logical positivists such as Carnap, phenomenologists such as Heidegger, and post-structuralists such as Derrida.

**Prerequisite:** At least one of PHIL 11009 or PHIL 21002 or PHIL 41038; and at least one of PHIL 11001 or PHIL 21001.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Writing Intensive Course

**PHIL 31020 AMERICAN PHILOSOPHY (WIC) 3 Credit Hours**

Selections from principal American philosophers from colonial times to the present, such as Emerson, Peirce, William James, Dewey, Quine, and Martin Luther King. American philosophy reflects the historic values of liberty, enterprise, industry, practicality, and diversity interwoven in the fabric of American life.

**Prerequisite:** At least one of PHIL 11009, 21002, 41038; and at least one of PHIL 11001, 21001.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Writing Intensive Course

**PHIL 31030 EXISTENTIALISM 3 Credit Hours**

Examination of the themes of existentialism, which include absurdity, freedom, and the individual's relationship to the world. Philosophers studied may include Sartre, Kierkegaard, Nietzsche, Camus, de Beauvoir, Ortega y Gasset, Marcel, and Tillich. Students with junior standing or above, who have not taken a Philosophy course, should contact the department for a prerequisite override.

**Prerequisite:** One course in philosophy.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PHIL 31035 PHILOSOPHY AND JUSTICE (DIVD) 3 Credit Hours**

Consideration of topics and issues relevant to the concept of justice, as addressed by a range of classical and contemporary philosophers. Topics may include the nature of justice from feminist, libertarian, liberal, socialist, communitarian, egalitarian, and social welfare perspectives; and the application of these perspectives to practical issues such as affirmative action, democracy, equal pay, environmental justice, just war, criminal justice, civil disobedience, tort law and poverty. Students with junior standing or above, who have not taken a Philosophy [PHIL] course, should contact the department for a prerequisite override.

**Prerequisite:** One course in philosophy.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Diversity Domestic

**PHIL 31040 FEMINIST PHILOSOPHY (DIVD) 3 Credit Hours**

The course introduces feminist philosophy understood as social critique: a critique of unjust, exclusionary, and oppressive systemic practices surrounding sex, sexuality, and gender. As such, the course focuses on issues such as gender identity, sexual difference, the sex and gender binaries, gendered experience, trans embodiment, and LGBTQI marginalization. The course asks whether, and if so, how, feminist theory (more broadly) and feminist philosophy (more narrowly) could draw on canonical philosophical texts, traditions, and figures. The course focuses extensively on contemporary approaches, including queer, race, and gay and lesbian theory. Students with junior standing or above, who have not taken a philosophy course, should contact the department for a prerequisite override.

**Prerequisite:** One course in philosophy.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Diversity Domestic

**PHIL 31050 PHILOSOPHY THROUGH LITERATURE 3 Credit Hours**

This course introduces several philosophical problems via an examination of those problems and themes in works of literature. The course combines philosophical essays with works of poetry, short novels, and short stories, so as to expose students to diverse perspectives on complex philosophical problems. Students with junior standing or above, who have not taken a philosophy course should contact the department for a prerequisite override.

**Prerequisite:** One course in philosophy.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PHIL 31060 PHILOSOPHY OF ART AND BEAUTY (ELR) 3 Credit Hours**

Investigation of concepts such as the artistic object and creative expression, and examination and critique of a range of theories designed to solve various problems in the field of aesthetics, or the study of the nature and principles of artistic beauty. Examples drawn from diverse genres such as the visual arts, drama, music, and dance provide the context for discussion of topics including what makes something beautiful and what is involved in an act of creativity. Students with junior standing or above, who have not taken a Philosophy course, should contact the department for a prerequisite override.

**Prerequisite:** One course in philosophy.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Experiential Learning Requirement



**PHIL 31070 AFRICAN AND AFRICAN-AMERICAN PHILOSOPHIES (DIVD) 3 Credit Hours**

(Cross-listed with PAS 30010) Exploration of philosophical issues in African and African-American or Black thoughts systems. Topics may include the examination of the issue of the existence of a Black philosophy, the nature of traditional African knowledge, beliefs about personhood, the basis and rationality of witchcraft or other metaphysical beliefs, communalism, the nature of Black moral and aesthetic values, and contemporary analysis of race, racism, slavery, civil rights, pan-Africanism, and criticisms of colonialism, Black development, democratic governance and social policies regarding Blacks. Students with junior standing or above, who have not taken a Philosophy course, should contact the department for a prerequisite override.

**Prerequisite:** One course in philosophy.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Diversity Domestic

**PHIL 31072 AMERICAN INDIAN PHILOSOPHIES (DIVD) 3 Credit Hours**

Examination of philosophical issues and themes in American Indian world views with attention given to the reflections of contemporary native scholars. Students with junior standing or above, who have not taken a Philosophy course should contact the department for a prerequisite override.

**Prerequisite:** One course in philosophy.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Diversity Domestic

**PHIL 31075 PHILOSOPHY AND CULTURE (DIVG) 3 Credit Hours**

Critical examination of various philosophical ideas and issues from diverse cultural perspectives. Topics include pluralism, coexistence, toleration and relativism. Students with junior standing or above who have not taken a Philosophy (PHIL) course should contact the department for a prerequisite override.

**Prerequisite:** One course in philosophy.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Diversity Global

**PHIL 31080 FOUNDATIONS IN THE HISTORY AND PHILOSOPHY OF SCIENCE 3 Credit Hours**

(Cross-listed with HIST 31500) An introduction to the study of science as a social, cultural, and historical phenomenon with an emphasis on the history of science primarily in western civilization since 1500 and the major philosophical approaches to science developed in the twentieth century.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PHIL 32091 SEMINAR: PHILOSOPHICAL REFLECTIONS 3 Credit Hours**

Junior-level seminar with variable topics of philosophical interest. Please check the departmental website or contact the instructor regarding each semester's topic. Students with junior standing or above, who have not taken a Philosophy [PHIL] course, should contact the department for a prerequisite override.

**Prerequisite:** One course in philosophy.

**Schedule Type:** Seminar

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**PHIL 40005 HEALTH CARE ETHICS 3 Credit Hours**

Ethical problems in health care critically assessed, and consideration of how these specific ethical problems illuminate the ethical enterprise. Students with junior standing or above, who have not taken a philosophy course, should contact the department for a prerequisite override.

**Prerequisite:** One course in philosophy.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PHIL 40093 VARIABLE TITLE WORKSHOP IN PHILOSOPHY 1-6 Credit Hours**

(Repeatable for credit)

**Prerequisite:** Permission.

**Schedule Type:** Workshop

**Contact Hours:** 1-6 other

**Grade Mode:** Satisfactory/Unsatisfactory

**PHIL 41010 PROBLEMS IN THE PHILOSOPHY OF RELIGION 3 Credit Hours**

(Slashed with PHIL 51010) Philosophical examination of issues and problems presented by various writers in philosophy of religion.

**Prerequisite:** One of the following: PHIL 31001 or PHIL 31002 or PHIL 31003 or PHIL 31004 or PHIL 31005 or PHIL 31006 or PHIL 31010 or PHIL 31020.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PHIL 41020 SOCIAL AND POLITICAL PHILOSOPHY 3 Credit Hours**

(Slashed with PHIL 51020) Critical examination of classical and contemporary philosophical theories of the nature of society, and the state as political system that best represents a well-organized society. Topics may include the nature, existence, and justification of the state, the issue of political obligation, theories of anarchism, utopia, democracy, liberalism, communitarianism, citizenship, and patriotism, and examination of the nature of the social and political values or notions of rights, equality, and liberty.

**Prerequisite:** One of the following courses: PHIL 31001, PHIL 31002, PHIL 31003, PHIL 31004, PHIL 31005, PHIL 31006, PHIL 31010 or PHIL 31020.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PHIL 41025 PHILOSOPHY OF LAW 3 Credit Hours**

(Slashed with PHIL 51025) Critical examination of the nature, features, foundation, and function of law. Topics may include the debate between natural law theory and legal positivism, with respect to whether law and moral are necessarily connected, as well as the nature of judicial decision, constitution interpretation, the basis and elements of criminal, civil law (contract, tort) law, the grounds for obeying or disobeying bad laws, and analysis of some supreme court cases which raise philosophical issues about the nature and function of law.

**Prerequisite:** One of the following courses: PHIL 31001 or PHIL 31002 or PHIL 31003 or PHIL 31004 or PHIL 31005 or PHIL 31006 or PHIL 31010 or PHIL 31020.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PHIL 41030 ETHICAL THEORY 3 Credit Hours**

(Slashed with PHIL 51030) In this course, students will explore developments in the dominant normative theories of 20th and 21st century Anglo-American ethics, including consequentialism, deontology, virtue ethics, ethics of care, and varieties of contract theory.

**Prerequisite:** One of the following courses: PHIL 31001, PHIL 31002, PHIL 31003, PHIL 31004, PHIL 31005, PHIL 31006, PHIL 31010, or PHIL 31020.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PHIL 41033 PHILOSOPHY OF IMAGINATION 3 Credit Hours**

(Slashed with PHIL 51033) Drawing from a variety of approaches and figures in the history of philosophy, the course examines the imagination as a distinctive faculty and type of consciousness. Some of the central questions of the course are: How does the imagination relate to perception, judgment, or memory? How are we to understand the work of the imagination from an epistemic, metaphysical, moral, or aesthetic point of view? What role, if any, does the imagination play in scientific and philosophical inquiry?

**Prerequisite:** One of the following courses: PHIL 31001, PHIL 31002, PHIL 31003, PHIL 31004, PHIL 31005, PHIL 31006, PHIL 31010 or PHIL 31020.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PHIL 41034 PHILOSOPHY OF PSYCHOLOGY AND PSYCHIATRY 3 Credit Hours**

(Slashed with PHIL 51034) This course addresses the question, "What are mental disorders?" using the methods of philosophy. We consider metaphysical questions such as, "Are mental disorders natural kinds or social kinds?" and "Can we provide a reductionist account of mental disorder?", questions from Philosophy of Mind such as, "Can a theory of mind-brain dualism accommodate the possibility of mental disorder?", and ethical questions such as, "How can we hold people with personality disorders responsible for their actions without blaming them?" By addressing the nature of mental disorder from a variety of philosophical angles, we will examine not only how each subfield answers the question in isolation, but also how each subfield might complement or contradict other philosophical approaches.

**Prerequisite:** One of the following courses: PHIL 31001, PHIL 31002, PHIL 31003, PHIL 31004, PHIL 31005, PHIL 31006, PHIL 31010 or PHIL 31020.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PHIL 41035 PHILOSOPHY OF SCIENCE 3 Credit Hours**

(Slashed with PHIL 51035) What is science? What are its distinctive aims and methods, and how do they bolster the epistemic authority of scientific theories? Do sociological, historical, and cultural factors play a major role in the advancement of scientific thought? These questions, and others like them, define the philosophy of science - a branch of philosophy that deals with the metaphysical, epistemological, and normative issues that arise in the study of scientific practice.

**Prerequisite:** One of the following courses: PHIL 31001, PHIL 31002, PHIL 31003, PHIL 31004, PHIL 31005, PHIL 31006, PHIL 31010 or PHIL 31020.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PHIL 41036 PHILOSOPHY OF COGNITIVE SCIENCE 3 Credit Hours**

(Slashed with PHIL 51036) In this course, students focus on issues at the interface of philosophy, psychology, neuroscience, linguistics, and artificial intelligence. These fields, which comprise contemporary cognitive science, present the philosopher with an opportunity to clarify foundational concepts, such as computation, innateness, language, perception, and learning. Ultimately, the goal of the course is to understand various proposals about how neural computation could amount to human intelligence and consciousness.

**Prerequisite:** One of the following courses: PHIL 31001 or PHIL 31002 or PHIL 31003 or PHIL 31004 or PHIL 31005 or PHIL 31006 or PHIL 31010 or PHIL 31020.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PHIL 41037 RENAISSANCE AND EARLY MODERN PHILOSOPHY AND SCIENCE 3 Credit Hours**

(Slashed with PHIL 51037) An investigation of the work of the most important European philosophers of the 15th-17th centuries, with a particular emphasis on the interrelation between philosophy and science in their thought, and on the influence of Greek philosophy on the intellectual life of the time.

**Prerequisite:** PHIL 31001 or PHIL 31002 or PHIL 31003 or PHIL 31004 or PHIL 31005 or PHIL 31006 or PHIL 31010 or PHIL 31020.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PHIL 41038 INTERMEDIATE LOGIC 3 Credit Hours**

(Slashed with PHIL 51038; Cross-listed with CS 41038 and MATH 41038 and MATH 51038) A detailed, systematic study of symbolic logic for philosophy majors, mathematics majors, computer science majors, and anyone else interested in advanced study in logic. The aim of the course is twofold: first, to develop a facility in understanding and using symbolic logic for various purposes, and second, to understand and appreciate symbolic logic as an area of study in itself. Topics include the distinction between syntactic, object-level proofs and semantic, meta-level proofs, the distinction between axiomatic systems and natural deduction systems of object-level proofs, various systems of modal logic, and some non-classical logics. Students with junior standing or above, who have not taken a Philosophy course, should contact the department for a prerequisite override.

**Prerequisite:** One course in philosophy.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PHIL 41040 EPISTEMOLOGY 3 Credit Hours**

(Slashed with PHIL 51040) What is the difference between merely believing something to be the case and knowing it to be the case? In this course students examine various theories designed to answer this question and evaluate their respective strengths and weaknesses. The course will cover the Gettier problem that questions the traditional definition of knowledge as justified true belief, the debate between foundationalism and coherentism, the debate between internalism and externalism about justification, naturalized epistemology, and virtue epistemology.

**Prerequisite:** One of the following courses: PHIL 31001, PHIL 31002, PHIL 31003, PHIL 31004, PHIL 31005, PHIL 31006, PHIL 31010, or PHIL 31020.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PHIL 41042 METAPHYSICS 3 Credit Hours**

(Slashed with PHIL 51042) Covers several topics in contemporary analytic metaphysics. Topics may include existence, identity, things and their persistence over time, the nature of modalities and possible worlds, and the relationship between material parts and wholes.

**Prerequisite:** One of the following courses: PHIL 31001 or PHIL 31002 or PHIL 31003 or PHIL 31004 or PHIL 31005 or PHIL 31006 or PHIL 31010 or PHIL 31020.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PHIL 41045 METALOGIC 3 Credit Hours**

(Slashed with PHIL 51045) (Cross-listed with CS 41045 and CS 51045 and MATH 41045 and MATH 51045) A detailed, systematic study of metalogic for philosophy majors, mathematics majors, computer science majors, and anyone else interested in advanced study in logic. Topics include the soundness and completeness of the propositional and predicate calculi, the decidability of propositional calculus, the undecidability of predicate calculus, Gödel's incompleteness proof for languages capable of expressing arithmetic, the co-extensionality of the set of general recursive functions, abacus computable functions, and Turing computable functions, and the philosophical motivations for the Church-Turing Thesis that all computable functions are Turing computable.

**Prerequisite:** PHIL 41038.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PHIL 41048 METAETHICS 3 Credit Hours**

(Slashed with PHIL 51048) Metaethics is the study of the nature and justification of moral judgments, as distinct from ethics, which aims to articulate principles, criteria, or alternative approaches to understanding and achieving goodness and right action. Metaethics examines the concepts, ontology, psychology, and modes of justification employed within ethics. This course will explore recent developments about such questions as: which, if any, ethical judgments can be true or false; whether we can know true ethical statements; and to what kinds of properties, if any, ethical judgments and beliefs refer.

**Prerequisite:** One of the following courses: PHIL 31001, PHIL 31002, PHIL 31003, PHIL 31004, PHIL 31005, PHIL 31006, PHIL 31010, or PHIL 31020.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PHIL 41050 ANALYTIC PHILOSOPHY 3 Credit Hours**

(Slashed with PHIL 51040) Focuses on the history and continued evolution of analytic philosophy. Readings include works by philosophers such as Frege, Russell, Moore, Wittgenstein, Schlick, Carnap, Ryle, Austin, Strawson, Grice, Quine, Davidson, Kripke, Putnam, and others. The aim of the course is (i) to understand the theses and themes that commonly arise in analytic philosophy, their philosophical motivations, and the problems they face, and (ii) to become familiar with the methodologies used by analytic philosophers including (but not limited to) logical analysis, appeals to ordinary language, the use of thought experiments, and the use of possible world semantics.

**Prerequisite:** One of the following courses: PHIL 31001 or PHIL 31002 or PHIL 31003 or PHIL 31004 or PHIL 31005 or PHIL 31006 or PHIL 31010 or PHIL 31020.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PHIL 41055 PHENOMENOLOGY 3 Credit Hours**

(Slashed with PHIL 51055) In-depth study of the phenomenological movement in twentieth-century philosophy, from its origin in the thought of Edmund Husserl and his contemporaries, through such canonical thinkers as Martin Heidegger and Maurice Merleau-Ponty, to various contemporary developments. Substantial time is also devoted to considering applications of phenomenology to various disciplines in the humanities, social sciences, and arts. This is in keeping with the overall focus in this seminar on phenomenology not only as a philosophical school, but also as a methodology with broad and diverse applications.

**Prerequisite:** One of the following courses: PHIL 31001, PHIL 31002, PHIL 31003, PHIL 31004, PHIL 31005, PHIL 31006, PHIL 31010 or PHIL 31020.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PHIL 41060 PRAGMATISM 3 Credit Hours**

(Slashed with PHIL 51060) As America's distinctive "home-grown" philosophy, pragmatism embodies the values of action, problem-solving, and consensus-building within a pluralistic society. The core of this course examines the seminal works of the classical American pragmatists: Peirce, James, and Dewey. Special attention will be devoted to a phenomenology of experience that undercuts the dualisms of mind and matter, subject and object, self and world.

**Prerequisite:** One of the following courses: PHIL 31001, PHIL 31002, PHIL 31003, PHIL 31004, PHIL 31005, PHIL 31006, PHIL 31010 or PHIL 31020.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PHIL 41065 PLATO 3 Credit Hours**

(Slashed with PHIL 51065) Detailed examination of selected Platonic dialogues, with some attention to Plato's development and dismissal of certain pre-Socratic (and Socratic) themes.

**Prerequisite:** One of the following courses: PHIL 31001, 31002, 31003, 31004, 31005, 31006, 31010 or 31020.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PHIL 41070 ARISTOTLE 3 Credit Hours**

(Slashed with PHIL 51070) Detailed examination of selected works of Aristotle, with some attention given to Aristotle's development and dismissal of certain pre-Socratic and Platonic themes.

**Prerequisite:** One of the following courses: PHIL 31001, 31002, 31003, 31004, 31005, 31006, 31010 or 31020.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PHIL 41076 CONTINENTAL PHILOSOPHY 3 Credit Hours**

(Slashed with PHIL 51076) Investigation of some figure, issue or theme in continental philosophy from Descartes to present.

**Prerequisite:** One of the following courses: PHIL 31001, 31002, 31003, 31004, 31005, 31006, 31010 or 31020.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PHIL 41080 PHILOSOPHY AND ART: 1890 - PRESENT 3 Credit Hours**

(Slashed with PHIL 51080) Exploring, with emphasis on the modern age, philosophical conceptions of art in their interplays with, especially, practicing artists' attitudes toward theory.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PHIL 41091 SEMINAR IN WORLD PHILOSOPHY 3 Credit Hours**

(Slashed with PHIL 51091) (Repeatable for a maximum of 3 credit hours) Intensive primary-source reading and critical appreciation of the significant works of one or more philosophical figures or one or more philosophical issues from traditions outside the Western canon.

**Prerequisite:** One of the following courses: PHIL 31001 or PHIL 31002 or PHIL 31003 or PHIL 31004 or PHIL 31005 or PHIL 31006 or PHIL 31010 or PHIL 31020.

**Schedule Type:** Seminar

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**PHIL 41491 SEMINAR IN ASIAN PHILOSOPHY (DIVG) 3 Credit Hours**

(Slashed with PHIL 51491) (Repeatable a maximum of 2 times) Intensive primary-source reading and critical appreciation of the significant works of one or more philosophical figures or one or more philosophical issues from traditions in Asian philosophy.

**Prerequisite:** One of the following courses: PHIL 31001 or PHIL 31002 or PHIL 31003 or PHIL 31004 or PHIL 31005 or PHIL 31006 or PHIL 31010 or PHIL 31020.

**Schedule Type:** Seminar

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**Attributes:** Diversity Global

**PHIL 41591 SEMINAR IN THE HISTORY OF ETHICS 3 Credit Hours**

(Slashed with PHIL 51591) (Repeatable a maximum of 2 times) Intensive primary-source reading and critical appreciation of the significant works of one or more philosophical figures or one or more philosophical issues from traditions in the history of ethics.

**Prerequisite:** One of the following courses: PHIL 31001 or PHIL 31002 or PHIL 31003 or PHIL 31004 or PHIL 31005 or PHIL 31006 or PHIL 31010 or PHIL 31020.

**Schedule Type:** Seminar

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**PHIL 49995 SPECIAL TOPICS 2,3 Credit Hours**

(Repeatable for credit when topic varies)

**Prerequisite:** Special approval.

**Schedule Type:** Lecture

**Contact Hours:** 2-3 lecture

**Grade Mode:** Standard Letter

**PHIL 49996 INDIVIDUAL INVESTIGATION 1-3 Credit Hours**

(Repeatable for credit with departmental approval prior to registration)

**Prerequisite:** Departmental special approval prior to registration.

**Schedule Type:** Individual Investigation

**Contact Hours:** 1-3 other

**Grade Mode:** Standard Letter-IP

**PHIL 49999 SENIOR HONORS PROJECT (ELR) 2,3 Credit Hours**

(Repeated registration permitted with departmental approval prior to registration) Thesis or other independent study or creative project.

**Prerequisite:** Departmental permission before registration.

**Schedule Type:** Senior Project/Honors Thesis

**Contact Hours:** 2-3 other

**Grade Mode:** Standard Letter-IP

**Attributes:** Experiential Learning Requirement

**PHIL 50005 HEALTH CARE ETHICS 3 Credit Hours**

Ethical problems in health care critically assessed and consideration of how these specific ethical problems illuminate the ethical enterprise.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PHIL 50093 VARIABLE TITLE WORKSHOP IN PHILOSOPHY 1-6 Credit Hours**

(Repeatable for credit)

**Prerequisite:** Graduate standing.

**Schedule Type:** Workshop

**Contact Hours:** 3 other

**Grade Mode:** Satisfactory/Unsatisfactory

**PHIL 51010 PROBLEMS IN THE PHILOSOPHY OF RELIGION 3 Credit Hours**

(Slashed with PHIL 41010) Philosophical examination of issues and problems presented by various writers in philosophy of religion.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PHIL 51020 SOCIAL AND POLITICAL PHILOSOPHY 3 Credit Hours**

(Slashed with PHIL 41020) Critical examination of classical and contemporary philosophical theories of the nature of society, and the state as political system that best represents a well-organized society. Topics may include the nature, existence, and justification of the state, the issue of political obligation, theories of anarchism, utopia, democracy, liberalism, communitarianism, citizenship, and patriotism, and examination of the nature of the social and political values or notions of rights, equality, and liberty.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PHIL 51025 PHILOSOPHY OF LAW 3 Credit Hours**

(Slashed with PHIL 41025) Critical examination of the nature, features, foundation, and function of law. Topics may include the debate between natural law theory and legal positivism, with respect to whether law and moral are necessarily connected, as well as the nature of judicial decision, constitution interpretation, the basis and elements of criminal, civil law (contract, tort) law, the grounds for obeying or disobeying bad laws, and analysis of some supreme court cases which raise philosophical issues about the nature and function of law.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PHIL 51030 ETHICAL THEORY 3 Credit Hours**

(Slashed with PHIL 41030) In this course, students will explore developments in the dominant normative theories of 20th and 21st century Anglo-American ethics, including consequentialism, deontology, virtue ethics, ethics of care, and varieties of contract theory.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PHIL 51033 PHILOSOPHY OF IMAGINATION 3 Credit Hours**

(Slashed with PHIL 41033) Drawing from a variety of approaches and figures in the history of philosophy, the course examines the imagination as a distinctive faculty and type of consciousness. Some of the central questions of the course are: How does the imagination relate to perception, judgment, or memory? How are we to understand the work of the imagination from an epistemic, metaphysical, moral, or aesthetic point of view? What role, if any, does the imagination play in scientific and philosophical inquiry?

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PHIL 51034 PHILOSOPHY OF PSYCHOLOGY AND PSYCHIATRY 3 Credit Hours**

(Slashed with PHIL 51034) This course addresses the question, "What are mental disorders?" using the methods of philosophy. We consider metaphysical questions such as, "Are mental disorders natural kinds or social kinds?" and "Can we provide a reductionist account of mental disorder?", questions from Philosophy of Mind such as, "Can a theory of mind-brain dualism accommodate the possibility of mental disorder?", and ethical questions such as, "How can we hold people with personality disorders responsible for their actions without blaming them?" By addressing the nature of mental disorder from a variety of philosophical angles, we will examine not only how each subfield answers the question in isolation, but also how each subfield might complement or contradict other philosophical approaches.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PHIL 51035 PHILOSOPHY OF SCIENCE 3 Credit Hours**

(Slashed with PHIL 41035) What is science? What are its distinctive aims and methods, and how do they bolster the epistemic authority of scientific theories? Do sociological, historical, and cultural factors play a major role in the advancement of scientific thought? These questions, and others like them, define the philosophy of science - a branch of philosophy that deals with the metaphysical, epistemological, and normative issues that arise in the study of scientific practice.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter



**PHIL 51036 PHILOSOPHY OF COGNITIVE SCIENCE 3 Credit Hours**

(Slashed with PHIL 41036) In this course, students focus on issues at the interface of philosophy, psychology, neuroscience, linguistics, and artificial intelligence. These fields, which comprise contemporary cognitive science, present the philosopher with an opportunity to clarify foundational concepts, such as computation, innateness, language, perception, and learning. Ultimately, the goal of the course is to understand various proposals about how neural computation could amount to human intelligence and consciousness.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PHIL 51037 RENAISSANCE AND EARLY MODERN PHILOSOPHY AND SCIENCE 3 Credit Hours**

(Slashed with PHIL 41037) An investigation of the work of the most important European philosophers of the 15th-17th centuries, with a particular emphasis on the interrelation between philosophy and science in their thought, and on the influence of Greek philosophy on the intellectual life of the time.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PHIL 51038 INTERMEDIATE LOGIC 3 Credit Hours**

(Slashed with PHIL 41038) (Cross-listed with CS 41038 and MATH 41038 and MATH 51038) A detailed, systematic study of symbolic logic for philosophy majors, mathematics majors, computer science majors, and anyone else interested in advanced study in logic. The aim of the course is twofold: first, to develop a facility in understanding and using symbolic logic for various purposes, and second, to understand and appreciate symbolic logic as an area of study in itself. Topics include the distinction between syntactic, object-level proofs and semantic, meta-level proofs, the distinction between axiomatic systems and natural deduction systems of object-level proofs, various systems of modal logic, and some non-classical logics.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PHIL 51040 EPISTEMOLOGY 3 Credit Hours**

(Slashed with PHIL 41040) What is the difference between merely believing something to be the case and knowing it to be the case? In this course students examine various theories designed to answer this question and evaluate their respective strengths and weaknesses. The course will cover the Gettier problem that questions the traditional definition of knowledge as justified true belief, the debate between foundationalism and coherentism, the debate between internalism and externalism about justification, naturalized epistemology, and virtue epistemology.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PHIL 51042 METAPHYSICS 3 Credit Hours**

(Slashed with PHIL 41042) Covers several topics in contemporary analytic metaphysics. Topics may include existence, identity, things and their persistence over time, the nature of modalities and possible worlds, and the relationship between material parts and wholes.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PHIL 51045 METALOGIC 3 Credit Hours**

(Slashed with PHIL 41045) (Cross-listed with CS 41045 and CS 51045 and MATH 41045 and MATH 51045) A detailed, systematic study of metalogic for philosophy majors, mathematics majors, computer science majors, and anyone else interested in advanced study in logic. Topics include the soundness and completeness of the propositional and predicate calculi, the decidability of propositional calculus, the undecidability of predicate calculus, Gödel's incompleteness proof for languages capable of expressing arithmetic, the co-extensionality of the set of general recursive functions, abacus computable functions, and Turing computable functions, and the philosophical motivations for the Church-Turing Thesis that all computable functions are Turing computable.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PHIL 51048 METAETHICS 3 Credit Hours**

(Slashed with PHIL 41048) Metaethics is the study of the nature and justification of moral judgments, as distinct from ethics, which aims to articulate principles, criteria, or alternative approaches to understanding and achieving goodness and right action. Metaethics examines the concepts, ontology, psychology, and modes of justification employed within ethics. This course will explore recent developments about such questions as: which, if any, ethical judgments can be true or false; whether we can know true ethical statements; and to what kinds of properties, if any, ethical judgments and beliefs refer.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PHIL 51050 ANALYTIC PHILOSOPHY 3 Credit Hours**

(Slashed with PHIL 41050) Focuses on the history and continued evolution of analytic philosophy. Readings include works by philosophers such as Frege, Russell, Moore, Wittgenstein, Schlick, Carnap, Ryle, Austin, Strawson, Grice, Quine, Davidson, Kripke, Putnam, and others. The aim of the course is (i) to understand the theses and themes that commonly arise in analytic philosophy, their philosophical motivations, and the problems they face, and (ii) to become familiar with the methodologies used by analytic philosophers including (but not limited to) logical analysis, appeals to ordinary language, the use of thought experiments, and the use of possible world semantics.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PHIL 51055 PHENOMENOLOGY 3 Credit Hours**

(Slashed with PHIL 41055) In-depth study of the phenomenological movement in twentieth-century philosophy, from its origin in the thought of Edmund Husserl and his contemporaries, through such canonical thinkers as Martin Heidegger and Maurice Merleau-Ponty, to various contemporary developments. Substantial time is also devoted to considering applications of phenomenology to various disciplines in the humanities, social sciences, and arts. This is in keeping with the overall focus in this seminar on phenomenology not only as a philosophical school, but also as a methodology with broad and diverse applications.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PHIL 51060 PRAGMATISM 3 Credit Hours**

(Slashed with PHIL 41060) As America's distinctive "home-grown" philosophy, pragmatism embodies the values of action, problem-solving, and consensus-building within a pluralistic society. The core of this course examines the seminal works of the classical American pragmatists: Peirce, James, and Dewey. Special attention will be devoted to a phenomenology of experience that undercuts the dualisms of mind and matter, subject and object, self and world.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PHIL 51065 PLATO 3 Credit Hours**

(Slashed with PHIL 51065) Detailed examination of selected platonic dialogues, with some attention to Plato's development and dismissal of certain pre-Socratic (and Socratic) themes.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PHIL 51070 ARISTOTLE 3 Credit Hours**

(Slashed with PHIL 41070) Detailed examination of selected works of Aristotle, with some attention given to Aristotle's development and dismissal of certain pre-Socratic and Platonic themes.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PHIL 51076 CONTINENTAL PHILOSOPHY 3 Credit Hours**

(Slashed with PHIL 41076) Investigation of some figure, issue or theme in continental philosophy from Descartes to present.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PHIL 51080 PHILOSOPHY AND ART: 1890 - PRESENT 3 Credit Hours**

(Slashed with PHIL 41080) Exploring, with emphasis, on the modern age philosophical conceptions of art in their interplays with, especially, practicing artists' attitudes toward theory.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PHIL 51091 SEMINAR IN WORLD PHILOSOPHY 3 Credit Hours**

(Slashed with PHIL 41091) (Repeatable for a maximum of 3 credit hours) Intensive primary-source reading and critical appreciation of the significant works of one or more philosophical figures or one or more philosophical issues from traditions outside the Western canon.

**Prerequisite:** Graduate standing.

**Schedule Type:** Seminar

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**PHIL 51491 SEMINAR IN ASIAN PHILOSOPHY 3 Credit Hours**

(Slashed with PHIL 41491) (Repeatable for a maximum of 2 times) Intensive primary-source reading and critical appreciation of the significant works of one or more philosophical figures or one or more philosophical issues from traditions in Asian philosophy.

**Prerequisite:** Graduate standing.

**Schedule Type:** Seminar

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**PHIL 51591 SEMINAR IN THE HISTORY OF ETHICS 3 Credit Hours**

(Slashed with PHIL 41591) (Repeatable twice for credit) Intensive primary-source reading and critical appreciation of the significant works of one or more philosophical figures or one or more philosophical issues from traditions in the history of ethics.

**Prerequisite:** Graduate standing.

**Schedule Type:** Seminar

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**PHIL 59995 SPECIAL TOPICS 3 Credit Hours**

(Repeatable for credit) When content varies, may be repeated for credit.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PHIL 59996 INDIVIDUAL INVESTIGATION 1-3 Credit Hours**

(Repeatable for credit with department approval)

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Individual Investigation

**Contact Hours:** 1-3 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**PHIL 60191 GRADUATE SEMINAR 3 Credit Hours**

(Repeatable for credit) Intensive primary-source reading and critical appreciation of the significant works of one or more philosophical figures or one or more philosophical issues.

**Prerequisite:** Graduate standing.

**Schedule Type:** Seminar

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PHIL 60201 SEMINAR:HISTORY OF PHILOSOPHY 3 Credit Hours**

Intensive primary-source reading and critical appreciation of the significant works of one or more historical philosophers (other than Plato and Aristotle) or one or more historical philosophical issues.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PHIL 61000 RESPONSIBLE CONDUCT OF RESEARCH 1 Credit Hour**

(Cross-listed with BMS 61000 and BMS 71000) Introduction into professional and ethical conduct of research. Topics include codes and laws governing research, identification of scientific misconduct, plagiarism, authorship and intellectual properties, ethical animal and human research.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 1 lecture

**Grade Mode:** Standard Letter

**PHIL 61050 PHILOSOPHY OF LANGUAGE 3 Credit Hours**

Critical examination of nature and function of language especially in relation to mental function and development.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PHIL 61055 SEMEIOTICS 3 Credit Hours**

(Cross-listed with MCLS 60020) An introduction to contemporary theories of semeiotics and to the application of those theories to linguistics, literature, translation and technology.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PHIL 61056 HERMENEUTICS 3 Credit Hours**

Critical appreciation of the theories and practices of interpretation comprehended according to certain classical, current and emergent philosophic styles and traditions.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PHIL 69101 GRADUATE PROSEMINAR 3 Credit Hours**

Students participate in the preparation and planning of the annual Graduate Student Conference, receive professional training and mentoring, and work closely with faculty to write and revise a philosophical essay suitable for use as a writing sample or conference presentation.

**Prerequisite:** Graduate standing.

**Schedule Type:** Seminar

**Contact Hours:** 3 lecture

**Grade Mode:** Satisfactory/Unsatisfactory

**PHIL 69194 COLLEGE TEACHING OF PHILOSOPHY 1 Credit Hour**

(Repeatable for credit) Discussion, critique and development of concepts to guide the teaching of philosophy including concepts of procedures and tactics for planning, pacing, presenting, representing and reviewing philosophic texts figures and issues.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 1 lecture

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**PHIL 69198 FIRST YEAR PAPER 1 Credit Hour**

Research paper for graduate students conducted under direction of the advisory group.

**Prerequisite:** Graduate standing.

**Schedule Type:** Research

**Contact Hours:** 1 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**PHIL 69199 THESIS I 2-6 Credit Hours**

Thesis students must register for a total of 6 hours, 2 to 6 hours in a single semester distributed over several semesters if desired.

**Prerequisite:** Graduate standing; and departmental special approval before registration.

**Schedule Type:** Masters Thesis

**Contact Hours:** 2-6 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**PHIL 69299 THESIS II 2 Credit Hours**

Thesis students must continue registration each semester until all degree requirements are met.

**Prerequisite:** PHIL 69199; and graduate standing.

**Schedule Type:** Masters Thesis

**Contact Hours:** 3 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**PHIL 69995 SPECIAL TOPICS 3 Credit Hours**

(Repeatable for credit) Selected topics in Philosophy.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PHIL 69997 COLLOQUIUM 1 Credit Hour**

(Repeatable for credit) Student, faculty and invited guests participate in conference-like contexts to present and discuss issues of current philosophic interest.

**Prerequisite:** Graduate standing.

**Schedule Type:** Colloquium

**Contact Hours:** 1 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**PHIL 69998 RESEARCH 1-15 Credit Hours**

(Repeatable for credit) Research or individual investigation for master's level graduate students. Credits earned may be applied toward meeting degree requirements.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Research

**Contact Hours:** 1-15 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

## Physical Activity, Wellness and Sport (PWS)

**PWS 10020 DEVELOPMENT AND CONDITIONING 1 Credit Hour**

Introduction to the principles of physical training. Practical application of these principles through a variety of activities.

**Prerequisite:** None.

**Schedule Type:** Laboratory

**Contact Hours:** 2 lab

**Grade Mode:** Standard Letter

**PWS 10035 LIFETIME FITNESS 2 Credit Hours**

The role of exercise in enhancing physical fitness. Lectures on principles of planning scientifically sound exercise programs. Laboratory experiences in personal fitness evaluation and exercise routines.

**Prerequisite:** None.

**Schedule Type:** Laboratory, Lecture, Combined Lecture and Lab

**Contact Hours:** 1 lecture, 2 lab

**Grade Mode:** Standard Letter

**PWS 10036 FITNESS WALKING 1 Credit Hour**

Introduction to Fitness Walking as a lifetime physical activity through personal cardiovascular fitness.

**Prerequisite:** None.

**Schedule Type:** Laboratory

**Contact Hours:** 2 lab

**Grade Mode:** Standard Letter

**PWS 10095 SELECTED TOPICS: PHYSICAL EDUCATION ACTIVITIES 1-2 Credit Hours**

(Repeatable for credit) Selected and varied topics of relevance in physical education basic instruction.

**Prerequisite:** None.

**Schedule Type:** Laboratory

**Contact Hours:** 2-4 lab

**Grade Mode:** Standard Letter

**PWS 10101 SCUBA DIVING 1 Credit Hour**

Designed to make students a comfortable and qualified diver, capable of conducting recreational dives to shallow depths and deep water diving. Could lead to certification as a PADI open water diver.

**Prerequisite:** None.

**Schedule Type:** Laboratory

**Contact Hours:** 2 lab

**Grade Mode:** Standard Letter

**PWS 10125 BASKETBALL 1 Credit Hour**

The course is designed to give students a basic understanding of how to play the game of basketball through active participation. Students are expected to learn and be able to demonstrate the skills and strategies of the game through various practice and competitive activities. Material is presented through class instruction and handouts.

**Prerequisite:** None.

**Schedule Type:** Laboratory

**Contact Hours:** 2 lab

**Grade Mode:** Standard Letter

**PWS 10204 BADMINTON 1 Credit Hour**

Instruction in the skills and techniques of the game of Badminton

**Prerequisite:** None.

**Schedule Type:** Laboratory

**Contact Hours:** 2 lab

**Grade Mode:** Standard Letter

**PWS 10304 BOWLING 1 Credit Hour**

**Prerequisite:** None.

**Schedule Type:** Laboratory

**Contact Hours:** 2 lab

**Grade Mode:** Standard Letter

**PWS 10305 BILLIARDS 1 Credit Hour**

Skills, technique, strategy, game knowledge as introduction to billiards (pool), a 'cue' sport; rules and gaming for variations of pocket billiards; practice and class tournament play.

**Prerequisite:** None.

**Schedule Type:** Laboratory

**Contact Hours:** 2 lab

**Grade Mode:** Standard Letter

**PWS 10306 JOGGING 1 Credit Hour**

This course is designed to enhance cardiovascular fitness through jogging and or running. The course will focus on a mixture of training techniques including light jogging and interval type workouts. This course will also include supplemental exercises such as core strengthening and stretching. Students will perform basic calculations to determine target heart rate zones. Students will establish fitness goals and select appropriate activities to attain these goals. Pre and Post assessments will allow students to monitor progress towards their fitness goals.

**Prerequisite:** None.

**Schedule Type:** Laboratory

**Contact Hours:** 2 lab

**Grade Mode:** Standard Letter

**PWS 10325 SOCCER 1 Credit Hour**

(Repeatable for credit)

**Prerequisite:** None.

**Schedule Type:** Laboratory

**Contact Hours:** 2 lab

**Grade Mode:** Standard Letter

**PWS 10403 BEGINNING BALLROOM DANCE 1 Credit Hour**

This course is designed for the beginning social dance to learn how to partner dance in a recreational setting. Dances include: Foxtrot, Rumba, Meringue, Swing, Cha Cha.

**Prerequisite:** None.

**Schedule Type:** Laboratory

**Contact Hours:** 2 lab

**Grade Mode:** Standard Letter

**PWS 10413 LATIN SOCIAL DANCE 1 Credit Hour**

Presentation of the DVIDA bronze syllabus for Latin dances. Introduction of Latin rhythm dances, which will include the Merengue, Salsa, Rumba, Cha Cha and Samba. Includes proper technique, rhythm of the dance and approximately 10-15 figures for each dance.

**Prerequisite:** None.

**Schedule Type:** Laboratory

**Contact Hours:** 2 lab

**Grade Mode:** Standard Letter

**PWS 10504 SAND VOLLEYBALL 1 Credit Hour**

Basic instruction in Volleyball skills and Sand Volleyball game strategies.

**Prerequisite:** None.

**Schedule Type:** Laboratory

**Contact Hours:** 2 lab

**Grade Mode:** Standard Letter

**PWS 10505 VOLLEYBALL 1 Credit Hour**

Introduction to the sport of Volleyball through instruction in individual and team skills, team building and game play.

**Prerequisite:** None.

**Schedule Type:** Laboratory

**Contact Hours:** 2 lab

**Grade Mode:** Standard Letter

**PWS 10604 BEGINNING GOLF 1 Credit Hour**

The student will have the opportunity to develop basic golf skills through lectures, demonstration, drills and game play. The student will also gain knowledge of golf etiquette and other areas as related to the game of golf.

**Prerequisite:** None.

**Schedule Type:** Laboratory

**Contact Hours:** 2 lab

**Grade Mode:** Standard Letter

**PWS 10704 INTERMEDIATE GOLF 1 Credit Hour**

Learn mechanics and techniques of the full golf swing, pitching, chipping, bunker play and putting. Learn to play better by playing rounds of golf. Learn the basic rules of golf and proper golf etiquette.

**Prerequisite:** PWS 10604.

**Schedule Type:** Laboratory

**Contact Hours:** 2 lab

**Grade Mode:** Standard Letter

**PWS 10904 TENNIS 1 Credit Hour**

You will be exposed to and utilize basic tennis skills, terms, and principles, with an emphasis on skill development and integration of playing tactics and strategies during match play.

**Prerequisite:** None.

**Schedule Type:** Laboratory

**Contact Hours:** 2 lab

**Grade Mode:** Standard Letter

**PWS 10906 RACQUETBALL 1 Credit Hour**

Instruction in the skills, techniques and strategies of the game of Racquetball.

**Prerequisite:** None.

**Schedule Type:** Laboratory

**Contact Hours:** 2 lab

**Grade Mode:** Standard Letter

**PWS 11126 FLAG FOOTBALL I 1 Credit Hour**

This course is designed to give the students an opportunity to review and practice the basic fundamental skills relative to the game of flag football. Students are expected to be able to demonstrate the skills and strategies of the game through various practice and competitive activities.

**Prerequisite:** None.

**Schedule Type:** Laboratory

**Contact Hours:** 2 lab

**Grade Mode:** Standard Letter

**PWS 11325 ADVANCED ICE HOCKEY 1 Credit Hour**

To build on the basic hockey fundamentals, leading to advanced team play and game situations providing deeper insight into the game of hockey.

**Prerequisite:** None.

**Schedule Type:** Laboratory

**Contact Hours:** 2 lab

**Grade Mode:** Standard Letter

**PWS 11327 KETTLEBELLS 1 Credit Hour**

A vigorous introductory physical conditioning course primarily utilizing kettlebells. Exercises designed to enhance strength, power, endurance, and agility will be emphasized. Introductory approach to kettlebell techniques and kettlebell program development.

**Prerequisite:** None.

**Schedule Type:** Laboratory

**Contact Hours:** 2 lab

**Grade Mode:** Standard Letter

**PWS 11425 VARSITY SPORTS 1 Credit Hour**

(Repeatable for credit) Designed to focus on advanced varsity sport skill development, to promote techniques and strategies to perform at a high level of competition, and to foster ethical values, sportsmanship and responsible citizenship through practices and game competitions. Designed for the student athlete who meets NCAA eligibility requirements.

**Prerequisite:** Special approval.

**Schedule Type:** Laboratory

**Contact Hours:** 2 lab

**Grade Mode:** Satisfactory/Unsatisfactory

**PWS 11426 VARSITY SPORT TRAINING AND CONDITIONING 1 Credit Hour**

(Repeatable for credit) Designed for sport specific training both in and out of season to produce highly skilled student-athletes through structured programs for immediate performance enhancement and injury prevention and to endure practice and competition. Designed for the student athlete who meets NCAA eligibility requirements.

**Prerequisite:** Special approval.

**Schedule Type:** Laboratory

**Contact Hours:** 2 lab

**Grade Mode:** Satisfactory/Unsatisfactory

**PWS 11435 SPORTS CONDITIONING 1 Credit Hour**

This course will cover methods and techniques that are used to safely and effectively enhance an individual's athletic performance by increasing speed, strength, endurance, agility and flexibility. This course will cover a variety of training principles, training methods, basic components of fitness and the physiological factors and benefits of exercise to promote a healthy lifestyle. This course is part theory and part practical application.

**Prerequisite:** None.

**Schedule Type:** Laboratory

**Contact Hours:** 2 lab

**Grade Mode:** Standard Letter

**PWS 11604 BEGINNING KARATE 1 Credit Hour**

A karate course designed for students with little or no martial arts or karate experience. This course will involve the training in the philosophy, principles, and techniques of Karate for self-defense, improvement of overall fitness and to give a greater understanding of the art and themselves.

**Prerequisite:** None.

**Schedule Type:** Laboratory

**Contact Hours:** 2 lab

**Grade Mode:** Standard Letter

**PWS 11605 INTERMEDIATE KARATE 1 Credit Hour**

Continuation of the perfection of basic karate techniques with the main emphasis on kumite (fighting).

**Prerequisite:** PWS 11604.

**Schedule Type:** Laboratory

**Contact Hours:** 2 lab

**Grade Mode:** Standard Letter

**PWS 11633 JU JITSU 1 Credit Hour**

Presentation of Ju-Jitsu and Judo techniques for use in self-defense. Includes falling, throwing, grappling, bars, locks, strikes, kicks and defends against various weapons.

**Prerequisite:** None.

**Schedule Type:** Laboratory

**Contact Hours:** 2 lab

**Grade Mode:** Standard Letter



**PWS 11634 SELF-DEFENSE 1 Credit Hour**

A self-defense course designed for students with little or no martial arts or self-defense background. Physical, verbal, and mental defensive techniques, tactics, and strategies are taught to prepare students for any potentially dangerous situation they may encounter. The course will also improve the student's physical and mental fitness.

**Prerequisite:** None.

**Schedule Type:** Laboratory

**Contact Hours:** 2 lab

**Grade Mode:** Standard Letter

**PWS 11663 BEGINNING YOGA 1 Credit Hour**

Overview course in yoga, an integrated study of health. Involves the investigation and practice of breathing techniques (pranayama), hatha yoga postures (asana), meditation and relaxation. Also unifies the mind, body and spirit.

**Prerequisite:** None.

**Schedule Type:** Laboratory

**Contact Hours:** 2 lab

**Grade Mode:** Standard Letter

**PWS 11664 PILATES 1 Credit Hour**

Pilates is a form of fitness endeavors which unite the rhythmic performances and strength with the conditioning principles of the movement sciences.

**Prerequisite:** None.

**Schedule Type:** Laboratory

**Contact Hours:** 2 lab

**Grade Mode:** Standard Letter

**PWS 11665 ZUMBA 1 Credit Hour**

Zumba® is a fitness program that fuses hypnotic Latin rhythms and easy-to-follow moves and mixes body sculpting movements with dance steps.

**Prerequisite:** None.

**Schedule Type:** Laboratory

**Contact Hours:** 2 lab

**Grade Mode:** Standard Letter

**PWS 11666 BEGINNING SPINNING 1 Credit Hour**

The Spinning program is based on two major components: health and fitness. Each of these parts is also related to the concept of mind (the health component) and body (the fitness component), and the overall program design is intended as more than a fitness regimen. It encourages Spinning participants to shift and broaden their perspectives by exposing them to new ideas and a variety of training styles and Energy Zones.

**Prerequisite:** None.

**Schedule Type:** Laboratory

**Contact Hours:** 2 lab

**Grade Mode:** Standard Letter

**PWS 11667 BOOT CAMP I 1 Credit Hour**

This course is designed to acquaint students with an exercise program using calisthenics, resistance training, running, and agility drills. The course will focus on increasing physical fitness, including cardiovascular efficiency, muscular strength, and flexibility. Students will also learn the fundamental principles of physical fitness and their effect on lifelong health and fitness.

**Prerequisite:** None.

**Schedule Type:** Laboratory

**Contact Hours:** 2 lab

**Grade Mode:** Standard Letter

**PWS 11673 INTERMEDIATE YOGA 1 Credit Hour**

Expansion of Yoga skills, building on knowledge base from Beginning Yoga. Students will explore movement components of anatomy, as related to yoga asanas and understand relationship of asanas to anatomy, creating movement and space.

**Prerequisite:** PWS 11663.

**Schedule Type:** Laboratory

**Contact Hours:** 2 lab

**Grade Mode:** Standard Letter

**PWS 11674 INTERMEDIATE PILATES 1 Credit Hour**

Intermediate Pilates reviews the fundamentals of the beginner class while moving on to the more challenging exercises and repertoire. Students will review and practice correct technique and form for strength, breathing, fluidity, and endurance for mat Pilates. This class is designed for experienced Pilates students.

**Prerequisite:** PWS 11664.

**Schedule Type:** Laboratory

**Contact Hours:** 2 lab

**Grade Mode:** Standard Letter

**PWS 11675 ZUMBA TONING 1 Credit Hour**

Zumba® is a fitness program that fuses hypnotic Latin and International rhythms with easy-to-follow moves and body sculpting movements to create a dynamic workout. The Zumba Toning® program uses hand held weights to enhance rhythm and tone the muscles, specifically arms, thighs, and abdomen. Zumba Toning is an ideal way to sculpt the body.

**Prerequisite:** None.

**Schedule Type:** Laboratory

**Contact Hours:** 2 lab

**Grade Mode:** Standard Letter

**PWS 11684 BALL PILATES 1 Credit Hour**

Ball Pilates, 'Pilates on an Exercise Ball' is very similar to other Pilates classes in that it incorporates many mat and equipment-based exercises. Adding the ball increases your mind-body awareness, core strength, balance and flexibility as you perform the work on an unstable base of support.

**Prerequisite:** None.

**Schedule Type:** Laboratory

**Contact Hours:** 2 lab

**Grade Mode:** Standard Letter

**PWS 11904 BEGINNING ICE SKATING 1 Credit Hour**

This course will give the beginner an introduction to the basic skills of ice skating with a focus on safe technique and the development of the basic skills of ice skating. Students will learn the fundamentals of balance, movement and safety on the ice.

**Prerequisite:** None.

**Schedule Type:** Laboratory

**Contact Hours:** 2 lab

**Grade Mode:** Standard Letter

**PWS 12004 BASIC FIGURE SKATING 1 Credit Hour**

This course will give the intermediate skater an introduction to the disciplines of figure skating and basic figure skating terminology. Students will learn figure skating fundamentals and how to use previously developed skills to achieve proficiency in more difficult skills.

**Prerequisite:** PWS 11904.

**Schedule Type:** Laboratory

**Contact Hours:** 2 lab

**Grade Mode:** Standard Letter

**PWS 12204 BEGINNING BROOMBALL 1 Credit Hour**

Broomball is a recreational ice game played in an ice rink. Skills, tactics and plays are similar to those used in ice hockey.

**Prerequisite:** None.

**Schedule Type:** Laboratory

**Contact Hours:** 2 lab

**Grade Mode:** Standard Letter

**PWS 12324 WEIGHT TRAINING 1 Credit Hour**

This course is designed to teach students the correct technique in lifting with machines, free weights and body weight in a safe and effective manner. Students learn scientific methods (macrocycle, mesocycle and microcycle) on how to correctly design a resistance training workout based around desired goals of strength, endurance, hypertrophy, power and speed. Students will be tested on the application of their knowledge by having to design an 8 week training planning with specific training principles used.

**Prerequisite:** None.

**Schedule Type:** Laboratory

**Contact Hours:** 2 lab

**Grade Mode:** Standard Letter

**PWS 12325 WOMEN'S WEIGHT TRAINING 1 Credit Hour**

A basic course in the use of equipment in an average weight room and its application towards the development of strength and power.

**Prerequisite:** None.

**Schedule Type:** Laboratory

**Contact Hours:** 2 lab

**Grade Mode:** Standard Letter

**PWS 12424 EXERCISE AND WEIGHT CONTROL 1 Credit Hour**

The course aims to educate the student on differing types of exercise styles currently available to assist in living a healthy lifestyle. The student will also learn ideal dietary requirements required to compliment the variety of exercise components. This course will teach how to combine this information to create a nutritional and training plan to meet current goals for this course. Students will pre-test and post-test physical fitness components in order to successfully assess how a change in a nutrition and exercise can contribute to living a healthy lifestyle.

**Prerequisite:** None.

**Schedule Type:** Laboratory

**Contact Hours:** 2 lab

**Grade Mode:** Standard Letter

**PWS 12425 NAUTILUS EXERCISES 1 Credit Hour**

This course will cover the proper use and weight training equipment. This course will also cover the instruction of proper weight training techniques for a safe and effective weight training program. Functional training and isolation training will be discussed and practiced, so that the student will benefit from both types of strength training exercises. The course is part theory and part practical application.

**Prerequisite:** None.

**Schedule Type:** Laboratory

**Contact Hours:** 2 lab

**Grade Mode:** Standard Letter

**PWS 13003 DANCE EXERCISE 1 Credit Hour**

Dance Exercise is a form of fitness, which unites the rhythmic performance, and energy of dance with the conditioning principles of the movement sciences. In addition to the physical exercise, students will also learn about the basic methodology behind an exercise class, a general history of dance exercise, and its relevance in the fitness industry today. Students should leave the course with knowledge of basic exercise and nutrition principles that can be applied in their personal exercise programs.

**Prerequisite:** None.

**Schedule Type:** Laboratory

**Contact Hours:** 2 lab

**Grade Mode:** Standard Letter

**PWS 13008 INTERMEDIATE VOLLEYBALL 1 Credit Hour**

Introduction of advanced playing systems and strategies in volleyball while emphasizing individual skill performance.

**Prerequisite:** PWS 10505.

**Schedule Type:** Laboratory

**Contact Hours:** 2 lab

**Grade Mode:** Standard Letter

**PWS 13010 JUDO-JUJITSU 1 Credit Hour**

Presentation of Jujitsu-Judo techniques for use in self-defense. This will include falling skills, throwing, grappling, come-along, as well as strikes and kicks and defenses against various weapons.

**Prerequisite:** None.

**Schedule Type:** Laboratory

**Contact Hours:** 2 lab

**Grade Mode:** Standard Letter

**PWS 13012 BACKPACKING 2 Credit Hours**

Trip planning and leadership, equipment and clothing selection, safety considerations, search and rescue, environmental ethics, map and compass, weekend backpacking trip. Student must supply equipment.

**Prerequisite:** Special approval.

**Schedule Type:** Lecture

**Contact Hours:** 4 lecture

**Grade Mode:** Standard Letter

**PWS 13016 CYCLING 1 Credit Hour**

**Prerequisite:** None.

**Schedule Type:** Laboratory

**Contact Hours:** 2 lab

**Grade Mode:** Standard Letter

**PWS 13022 CAMPING 2 Credit Hours**

Basic camping skills including: toolcraft, ropecraft, fire building, cooking, campsite management, equipment selection, safety considerations, environmental ethics, and map and compass for use on weekend trip. Students must supply own clothing and shelter.

**Prerequisite:** Special approval.

**Schedule Type:** Laboratory

**Contact Hours:** 4 lecture

**Grade Mode:** Standard Letter

**PWS 13028 INTRODUCTION TO KAYAKING 1 Credit Hour**

Basic paddling skills learned in a pool environment and then experienced in open lakes and whitewater situations.

**Prerequisite:** None.

**Schedule Type:** Laboratory

**Contact Hours:** 2 lab

**Grade Mode:** Standard Letter

**PWS 13030 BEGINNING ROCK CLIMBING 1 Credit Hour**

Basic instruction in safe rope handling, knots, conditioning, climbing technique, belaying, anchor systems and rappelling.

**Prerequisite:** None.

**Schedule Type:** Laboratory

**Contact Hours:** 2 lab

**Grade Mode:** Standard Letter

**PWS 13036 INDOOR CYCLING 1 Credit Hour**

Covers the knowledge and skills that are needed for understanding and participating in an indoor cycling program. Also covers the components of fitness and the physiological factors and benefits of exercise to promote a healthy lifestyle.

**Prerequisite:** None.

**Schedule Type:** Laboratory

**Contact Hours:** 2 lab

**Grade Mode:** Standard Letter

**PWS 13040 CARDIO KICKBOXING 1 Credit Hour**

Covers the knowledge and skills that are needed to understand and participate in Cardio Kickboxing. Also covers the components of fitness and the physiological factors and benefits of exercise to promote a healthy lifestyle. This course is part theory and part practical application.

**Prerequisite:** None.

**Schedule Type:** Laboratory

**Contact Hours:** 2 lab

**Grade Mode:** Standard Letter

**PWS 13041 HARDCORE ABS 1 Credit Hour**

Examines methods and techniques that improve abdominal and back strength, mechanics and the ability to dynamically stabilize. The student masters total body movement that occur through all three planes of motion. The exercises are performed on a stable and unstable surface for greater balance challenge. Equipment is used to increase resistance to intensify the work load. Improves core strength and activities of daily living.

**Prerequisite:** None.

**Schedule Type:** Laboratory

**Contact Hours:** 2 lab

**Grade Mode:** Standard Letter

**PWS 13093 VARIABLE TITLE WORKSHOP IN EXERCISE, LEISURE AND SPORT 1-2 Credit Hours**

(Repeatable for credit) Workshop in exercise, leisure and sport activities topics vary.

**Prerequisite:** None.

**Schedule Type:** Workshop

**Contact Hours:** 1-3 other

**Grade Mode:** Satisfactory/Unsatisfactory

## Physical Education and Sport Performance (PESP)

**PESP 15010 INTRODUCTION TO PHYSICAL EDUCATION, FITNESS AND SPORT 3 Credit Hours**

Development of a knowledge base on the roles, foundations, contextual and social issues, and career opportunities as they relate to physical education, physical activity and sport. Experimentation with various fitness tests and assessments that lead to the development of personal fitness plans.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PESP 15011 DEVELOPMENT AND ANALYSIS OF INVASION GAMES 3 Credit Hours**

Development, analysis and assessment of game performance skills used in invasion games.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PESP 15015 DEVELOPMENT AND ANALYSIS OF NET GAMES 3 Credit Hours**

Development and analysis of game performance skills in net games. Emphasis on problem solving strategies and skill execution related to game performance and on effective pedagogy.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PESP 15016 DEVELOPMENT AND ANALYSIS OF TARGET AND FIELD GAMES 3 Credit Hours**

Development and analysis of game performance skills used in target games and field-run-score games.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PESP 15018 DEVELOPMENT OF SWIMMING AND AQUATIC SKILLS 1 Credit Hour**

Development and analysis of basic aquatic skills, swimming strokes, starts and turns, diving skills, physical fitness principles, aquatic safety and basic rescue techniques.

**Prerequisite:** None.

**Schedule Type:** Laboratory

**Contact Hours:** 2 lab

**Grade Mode:** Standard Letter

**PESP 15020 FUNDAMENTAL MOVEMENT, GYMNASTICS AND DANCE 3 Credit Hours**

Designed to provide teachers and activity leaders with knowledge, skills, and dispositions necessary to teach developmentally appropriate progressions for fundamental movement skills, dance and gymnastics.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PESP 25025 TEACHING IN PHYSICAL EDUCATION 3 Credit Hours**

A seminar focused on the inquiry of teaching and learning of movement activities. A study of the role of the teacher, teacher behaviors, learning environments in movement activities and technology applications in physical education. Field observation hours requires a BCII and FBI background check report.

**Prerequisite:** PESP 15010.

**Schedule Type:** Laboratory, Lecture, Combined Lecture and Lab

**Contact Hours:** 1 lecture, 4 lab

**Grade Mode:** Standard Letter

**PESP 25026 OVERVIEW OF OUTDOOR PURSUITS AND ADVENTURE EDUCATION 3 Credit Hours**

An overview of outdoor pursuits and adventure education is provided for students preparing to serve students/clients in physically active, outdoor and adventure contexts. Includes a required service learning component, which involves the design and delivery of quality outdoor education programs and/or curricula to children within the local community.

**Prerequisite:** Physical Education and Sport Performance majors.

**Schedule Type:** Laboratory, Lecture, Combined Lecture and Lab

**Contact Hours:** 1 lecture, 4 lab

**Grade Mode:** Standard Letter

**PESP 25033 LIFESPAN MOTOR DEVELOPMENT 3 Credit Hours**

Introduction to motor development across the life span. Special emphasis on description of motor development changes and factors influencing change.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PESP 25056 ASSESSMENT OF LEARNING IN PHYSICAL EDUCATION AND SPORT 3 Credit Hours**

This course is designed to provide students with an understanding of the principles and applications of assessment methods in the fields of physical education and sport. Emphasis is placed on the selection, construction, administration, analysis and interpretation of appropriate assessments in a variety of settings, with particular emphasis on using assessments to evaluate learner progress relative to established standards in PE and sport. Throughout the course appropriate technological applications are used to facilitate data collection, management and analysis.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PESP 35010 PSYCHOLOGICAL DIMENSIONS OF MOTOR BEHAVIOR (WIC) 3 Credit Hours**

Psychological factors in exercise, physical activity and sport emphasizing motor control learning and performance. Laboratory included.

**Prerequisite:** EXSC 35068 or PESP 25056; and junior standing.

**Schedule Type:** Laboratory, Lecture, Combined Lecture and Lab

**Contact Hours:** 2 lecture, 2 lab

**Grade Mode:** Standard Letter

**Attributes:** Writing Intensive Course

**PESP 35020 FITNESS EDUCATION 3 Credit Hours**

This course is designed to prepare teachers, coaches, and physical activity specialists for an interdisciplinary approach to fitness education. Specific emphasis will be placed on enhancing students' content knowledge of fitness and physical activity within a classroom setting as well as applying pedagogical principles of class management, instructional strategies, feedback and assessment in in practical settings to enhance students' ability to teach and coach fitness content within a variety of physical education, sport and physical activity contexts.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PESP 35040 COACHING FOOTBALL 2 Credit Hours**

Techniques of coaching football, including film analysis and offensive and defensive skills and systems.

**Prerequisite:** Not open to freshmen.

**Schedule Type:** Laboratory, Lecture, Combined Lecture and Lab

**Contact Hours:** 1 lecture, 2 lab

**Grade Mode:** Standard Letter

**PESP 35041 COACHING SOCCER 2 Credit Hours**

Coaching soccer, including analysis of skills strategy and administrative responsibilities.

**Prerequisite:** Not open to freshmen.

**Schedule Type:** Laboratory, Lecture, Combined Lecture and Lab

**Contact Hours:** 1 lecture, 2 lab

**Grade Mode:** Standard Letter

**PESP 35042 COACHING VOLLEYBALL 2 Credit Hours**

Coaching volleyball, including analysis of skills, offensive and defensive strategy and administrative responsibilities.

**Prerequisite:** Not open to freshmen.

**Schedule Type:** Laboratory, Lecture, Combined Lecture and Lab

**Contact Hours:** 1 lecture, 2 lab

**Grade Mode:** Standard Letter

**PESP 35044 COACHING BASKETBALL 2 Credit Hours**

Philosophy, fundamentals, strategy, administrative responsibilities and conditioning.

**Prerequisite:** Not open to freshmen.

**Schedule Type:** Laboratory, Lecture, Combined Lecture and Lab

**Contact Hours:** 1 lecture, 2 lab

**Grade Mode:** Standard Letter

**PESP 35048 COACHING BASEBALL AND SOFTBALL 2 Credit Hours**

Coaching techniques in softball and baseball, including analysis of basic skills, position play and offensive and defensive strategies.

**Prerequisite:** Not open to freshmen.

**Schedule Type:** Laboratory, Lecture, Combined Lecture and Lab

**Contact Hours:** 1 lecture, 2 lab

**Grade Mode:** Standard Letter

**PESP 35049 COACHING TRACK AND FIELD 2 Credit Hours**

Coaching techniques relative to track and field events. Principles of organization for track and field meets.

**Prerequisite:** Not open to freshmen.

**Schedule Type:** Laboratory, Lecture, Combined Lecture and Lab

**Contact Hours:** 1 lecture, 2 lab

**Grade Mode:** Standard Letter

**PESP 35084 MOTOR SKILL ANALYSIS 3 Credit Hours**

Designed to assist teachers, coaches, and physical activity specialists in the analysis of motor skills. Students study the applications of performance and biomechanical principles to enhance skill and tactical performance in physical activity settings.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PESP 45015 PSYCHOLOGY OF COACHING 3 Credit Hours**

(Slashed with CI 55015) Psychological factors affecting athletic performance, with particular attention to practice factors, personality, motivation and problem athletes.

**Prerequisite:** Junior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PESP 45020 CONTEMPORARY ATHLETIC COACHING 3 Credit Hours**

(Slashed with CI 55020) A focus on the philosophy, skills strategies and tactics of coaching within contemporary society.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PESP 45037 ADAPTED PHYSICAL EDUCATION 3 Credit Hours**

An academic and practical approach to physical education for specific disorders. Field based experience (10 hours).

**Prerequisite:** Junior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PESP 45051 ELEMENTARY SCHOOL PHYSICAL EDUCATION METHODS 3 Credit Hours**

(Slashed with CI 55051) Approaches to teaching in elementary school physical education. Focus on establishing an environment for learning, planning standards based lessons, instructional effectiveness, and assessment of student learning. Students are required to complete Bureau of Criminal Investigation and Identification (BCII) and Federal Bureau of Investigation (FBI) background checks and submit the results to authorized personnel at their assigned school-agency before the first day of field experience.

**Prerequisite:** PESP 15010 and PESP 15011 and PESP 15015 and PESP 15016 and PESP 15020 and PESP 25025 and PESP 25033; and admission to advanced study.

**Corequisite:** PESP 45053.

**Schedule Type:** Laboratory, Lecture, Combined Lecture and Lab

**Contact Hours:** 2 lecture, 2 lab

**Grade Mode:** Standard Letter

**PESP 45053 ELEMENTARY SCHOOL PHYSICAL EDUCATION CONTENT 3 Credit Hours**

(Slashed with CI 55053) Physical education content for the elementary school child with emphasis on developmentally appropriate learning in three domains. Students are required to complete Bureau of Criminal Investigation and Identification (BCII) and Federal Bureau of Investigation (FBI) background checks and submit the results to authorized personnel at their assigned school-agency before the first day of field experience.

**Prerequisite:** PESP 15010 and PESP 15011 and PESP 15015 and PESP 15016 and PESP 15020 and PESP 25025 and PESP 25033; and admission to advanced study.

**Corequisite:** PESP 45051.

**Schedule Type:** Laboratory, Lecture, Combined Lecture and Lab

**Contact Hours:** 2 lecture, 2 lab

**Grade Mode:** Standard Letter

**PESP 45058 SECONDARY SCHOOL PHYSICAL EDUCATION METHODS 3 Credit Hours**

(Slashed with CI 55058) Approaches to teaching in secondary school physical education. Focus on management of the learning environment, planning for learning outcomes in three domains, instructional effectiveness, and sequential curriculum development. Students are required to complete Bureau of Criminal Investigation and Identification (BCII) and Federal Bureau of Investigation (FBI) background checks and submit the results to authorized personnel at their assigned school-agency before the first day of field experience.

**Prerequisite:** PESP 15010 and PESP 15011 and PESP 15015 and PESP 15016 and PESP 15020 and PESP 25025 and PESP 25033; and admission to advanced study.

**Corequisite:** PESP 45059.

**Schedule Type:** Laboratory, Lecture, Combined Lecture and Lab

**Contact Hours:** 2 lecture, 2 lab

**Grade Mode:** Standard Letter

**PESP 45059 SECONDARY SCHOOL PHYSICAL EDUCATION CONTENT 3 Credit Hours**

(Slashed with CI 55059) Introduction and development of content, standards-based curriculum models, management and organizational skills related to sports and activities utilized in secondary school physical education. Students are required to complete Bureau of Criminal Investigation and Identification (BCII) and Federal Bureau of Investigation (FBI) background checks and submit the results to authorized personnel at their assigned school-agency before the first day of field experience.

**Prerequisite:** PESP 15010 and PESP 15011 and PESP 15015 and PESP 15016 and PESP 15020 and PESP 25025 and PESP 25033; and admission to advanced study.

**Corequisite:** PESP 45058.

**Schedule Type:** Laboratory, Lecture, Combined Lecture and Lab

**Contact Hours:** 2 lecture, 2 lab

**Grade Mode:** Standard Letter

**PESP 45092 INTERNSHIP IN PHYSICAL EDUCATION (ELR) 2-4 Credit Hours**

(Repeatable for a maximum of 8 credit hours) Supervised full-time experience providing knowledge of overall operations for an agency or sports program in an approved setting. Forty-five (45) work hours per credit hour.

**Prerequisite:** Senior standing; and special approval.

**Schedule Type:** Practical Experience

**Contact Hours:** 6-12 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**Attributes:** Experiential Learning Requirement



**PESP 45096 INDIVIDUAL INVESTIGATION IN PHYSICAL EDUCATION**  
**1-3 Credit Hours**

(Repeatable for a maximum of 6 credit hours) Independent study completed under the supervision of a faculty member. Written approval of supervising faculty member and school director required prior to registration.

**Prerequisite:** Junior standing; and special approval.

**Schedule Type:** Individual Investigation

**Contact Hours:** 3-6 other

**Grade Mode:** Standard Letter-IP

**PESP 45692 INTERNSHIP IN ATHLETIC COACHING (ELR) 2-4 Credit Hours**

(Repeatable for a maximum of 4 credit hours) Supervised experience in organized sport focused upon the duties of a coach; can involve one or more level (youth, school, college, professional) and sport. 45 contact hours per credit.

**Prerequisite:** PESP 45020; and special approval.

**Schedule Type:** Practical Experience

**Contact Hours:** 6-12 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**Attributes:** Experiential Learning Requirement

**PESP 49525 INQUIRY INTO PROFESSIONAL PRACTICE IN PHYSICAL EDUCATION 3 Credit Hours**

Seminar focused on development of those skills and knowledge which enable future teachers to engage in effective reflective, collaborative and ethical professional practice.

**Prerequisite:** Admission to advanced study.

**Corequisite:** PESP 49592.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PESP 49592 STUDENT TEACHING IN PHYSICAL EDUCATION (ELR) 12 Credit Hours**

This experience provides for a full semester of student teaching in a school setting that is corequisite with PESP 49525 Inquiry into Professional Practice in Physical Education. Students are required to complete Bureau of Criminal Investigation and Identification (BCII) and Federal Bureau of Investigation (FBI) background checks and submit the results to authorized personnel at their assigned school/agency before the first day of the semester in which student teaching/ internship will take place; Official valid certification of Child Safety Training, approved Basic Life Support and A.L.I.C.E. Training must be presented to the campus office of clinical experience or designated faculty/staff at Regional campuses as prerequisite for student teaching.

**Prerequisite:** Admission to advanced study; and special approval.

**Corequisite:** PESP 49525.

**Schedule Type:** Practical Experience

**Contact Hours:** 45 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**Attributes:** Experiential Learning Requirement

## Physical Therapist Assisting Technology (PTST)

**PTST 10000 INTRODUCTION TO PHYSICAL THERAPIST ASSISTANT**  
**1 Credit Hour**

Introduces the physical therapy profession; current and historical physical therapist practice; and the role, responsibilities and expectations of a Physical Therapist Assistant.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 1 lecture

**Grade Mode:** Standard Letter

**PTST 10001 PRINCIPLES OF PATIENT CARE IN PHYSICAL THERAPY**  
**4 Credit Hours**

Students develop an understanding of the underlying principles of basic physical therapy procedures and the applications of these concepts in the physical therapy setting.

**Prerequisite:** Admission to technical study; and physical therapist assistant technology major.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 3 lecture, 3 lab

**Grade Mode:** Standard Letter

**PTST 10003 CLINICAL CONDITIONS I 2 Credit Hours**

Introduction to the pathology, treatment and clinical implications for medical conditions commonly encountered in physical therapy practice: Integumentary, cardiovascular, pulmonary, endocrine and digestive systems.

**Prerequisite:** Admission to technical study; and physical therapist assistant technology major.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**PTST 10004 PHYSICAL THERAPY PROCEDURES I 4 Credit Hours**

Theory and techniques of treatment procedures with emphasis on modalities. Maintenance of equipment and supplies.

**Prerequisite:** Admission to technical study; and physical therapist assistant technology major.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 3 lecture, 3 lab

**Grade Mode:** Standard Letter

**PTST 10010 TRANSITIONS IN PHYSICAL THERAPY 8 Credit Hours**

Validates prior learning in the course content of PTST 10004, PTST 20003, PTST 20004; builds knowledge necessary for the physical therapist assistant technology (PTST) degree; and prepares students who have previously completed an approved allied health program for advanced placement in PTST. Students successfully competing this course with a grade of C (2.000) or better will receive six (6) transfer credit hours.

**Prerequisite:** Physical therapist assistant technology transition concentration; and special approval.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 7 lecture, 3 lab

**Grade Mode:** Standard Letter

**PTST 11005 PHYSICAL THERAPY PRACTICE I 2 Credit Hours**

Learn the essentials of safe, ethical, legal, and value-based behaviors in patient care. Acquire documentation skills and prepare for clinical education.

**Prerequisite:** Admission to technical study; and physical therapist assistant technology major.

**Schedule Type:** Seminar

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**PTST 11092 CLINICAL EDUCATION I (ELR) 1 Credit Hour**

Observes and participate in providing selected physical therapy services under the direct supervision of a licensed PT or PTA.

**Prerequisite:** Admission to technical study; and PTST 11005; and physical therapist assistant technology major.

**Schedule Type:** Practical Experience

**Contact Hours:** 10 other

**Grade Mode:** Satisfactory/Unsatisfactory

**Attributes:** Experiential Learning Requirement

**PTST 20001 THERAPEUTIC COMMUNICATIONS IN PHYSICAL THERAPY 1 Credit Hour**

Focus on understanding human behavior. Emotional needs of individuals. Therapeutic use of self. Development of communication skills and interpersonal relationships.

**Prerequisite:** Admission to technical study; and physical therapist assistant technology major.

**Schedule Type:** Seminar

**Contact Hours:** 1 other

**Grade Mode:** Standard Letter

**PTST 20003 CLINICAL CONDITIONS II 2 Credit Hours**

Study of medical conditions commonly encountered in PTST 11005. The focus is on orthopedic, psychiatric, and geriatric illnesses, disorders and diseases. Pharmacology interventions are also covered.

**Prerequisite:** Admission to technical study; and physical therapist assistant technology.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**PTST 20004 PHYSICAL THERAPY PROCEDURES II 4 Credit Hours**

Basic principles, therapeutic effects and techniques of therapeutic exercises used in Physical Therapy practice.

**Prerequisite:** Admission to technical study; and Admission to the physical therapist assistant technology major; and AHS 22002 and AHS 22003.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 3 lecture, 3 lab

**Grade Mode:** Standard Letter

**PTST 20006 PHYSICAL REHABILITATION PROCEDURES 4 Credit Hours**

Principles and techniques of therapeutic interventions for rehabilitation in physical therapy practice.

**Prerequisite:** Admission to technical study; and PTST 20004 and BSCI 11020; and physical therapist assistant technology major.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 3 lecture, 3 lab

**Grade Mode:** Standard Letter

**PTST 20008 CLINICAL CONDITIONS III 2 Credit Hours**

Discussion of neurological pathologies across the lifespan, treatment of the medically complex patient and functional testing for the geriatric patient.

**Prerequisite:** Admission to technical study; and physical therapist assistant technology major.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**PTST 21095 SPECIAL TOPICS IN PHYSICAL THERAPIST ASSISTANT TECHNOLOGY 1-4 Credit Hours**

(Repeatable maximum 6 times for credit) Special topics in Physical Therapist Assistant Technology; topics announced when scheduled.

**Prerequisite:** Physical therapist assistant technology major.

**Schedule Type:** Lecture

**Contact Hours:** 1-4 lecture

**Grade Mode:** Standard Letter

**PTST 21096 INDIVIDUAL INVESTIGATION IN PHYSICAL THERAPIST ASSISTANT TECHNOLOGY 1-3 Credit Hours**

(Repeatable maximum 6 times for credit) Individual study in physical therapist assistant technology and related fields; open to PTST majors.

**Prerequisite:** Physical therapist assistant technology major.

**Schedule Type:** Individual Investigation

**Contact Hours:** 1-3 other

**Grade Mode:** Standard Letter

**PTST 22005 PHYSICAL THERAPY PRACTICE II 2 Credit Hours**

Understand the current professional, legal, and regulatory implications in the provision of PT services.

**Prerequisite:** Admission to technical study; and PTST 11005; and physical therapist assistant technology major.

**Schedule Type:** Seminar

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**PTST 22007 PHYSICAL THERAPY PRACTICE III 2 Credit Hours**

Preparation for licensure, employment and career development as a physical therapist assistant.

**Prerequisite:** Admission to technical study; and physical therapist assistant technology major.

**Schedule Type:** Seminar

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**PTST 22010 TRANSITIONS TO PHYSICAL THERAPY PRACTICE 2 Credit Hours**

Athletic Trainers transitioning to physical therapy practice prepare for employment and licensure. Explores reimbursement regulations, evidence based practice, and various topics related to health care systems, and discuss current topics in the practice of physical therapy.

**Prerequisite:** Special approval.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**PTST 22092 CLINICAL EDUCATION PRACTICUM II (ELR) 2 Credit Hours**

Provide physical therapy services under the direct supervision of a licensed PT or PTA.

**Prerequisite:** Admission to technical study; and PTST 11005 with a minimum C grade; and PTST 11092 with a grade of satisfactory.

**Schedule Type:** Practical Experience

**Contact Hours:** 10 other

**Grade Mode:** Satisfactory/Unsatisfactory

**Attributes:** Experiential Learning Requirement

**PTST 22392 ATHLETIC TRAINING PLUS PHYSICAL THERAPIST ASSISTANT CLINICAL EDUCATION PRACTICUM (ELR) 4 Credit Hours**

Provide physical therapy services of an entry-level physical therapist assistant, under the supervision of a licensed PT or PTA.

**Prerequisite:** PTST 11005 with a minimum C grade; and PTST 11092; and special approval.

**Corequisite:** PTST 22010.

**Schedule Type:** Practical Experience

**Contact Hours:** 480 other

**Grade Mode:** Standard Letter

**Attributes:** Experiential Learning Requirement

**PTST 23092 CLINICAL EDUCATION PRACTICUM III (ELR) 2 Credit Hours**

Provide physical therapy services of an entry-level physical therapist assistant, under the supervision of a licensed PT or PTA.

**Prerequisite:** Admission to technical study; and PTST 11005 and PTST 22092; physical therapist assistant technology major.

**Schedule Type:** Practical Experience

**Contact Hours:** 10 other

**Grade Mode:** Satisfactory/Unsatisfactory

**Attributes:** Experiential Learning Requirement

## Physics (PHY)

**PHY 11030 SEVEN IDEAS THAT SHOOK THE UNIVERSE (KBS) 3 Credit Hours**

Description of major revolutionary physical concepts and their implications for understanding the physical universe. Not counted toward requirements for physics major.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Kent Core Basic Sciences, Transfer Module Natural Sciences

**PHY 12000 INTRODUCTORY PHYSICS SEMINAR (ELR) 1 Credit Hour**

To provide a nurturing course for new physics majors, ideally to be taken in their first semester as majors. The course includes a journal club component, informational talks by industrial physicists and training in a select group of essential skills and tools for future work in the physics program.

**Prerequisite:** None.

**Schedule Type:** Seminar

**Contact Hours:** 1 other

**Grade Mode:** Standard Letter

**Attributes:** Experiential Learning Requirement

**PHY 12111 PHYSICS FOR HEALTH TECHNOLOGIES 3 Credit Hours**

Basic physics applied to health technologies: measurement techniques, force and motion of solids and fluids, energy, heat wave phenomena, electricity. Students taking this course should be in a health technologies major.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PHY 12201 TECHNICAL PHYSICS I (KBS) (KLAB) 3 Credit Hours**

Introduction to principles of physics: mechanics.

**Prerequisite:** MATH 11010.

**Pre/corequisite:** MATH 11022.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 2 lecture, 2 lab

**Grade Mode:** Standard Letter

**Attributes:** Kent Core Basic Sciences, Kent Core Basic Sciences Lab

**PHY 12202 TECHNICAL PHYSICS II (KBS) (KLAB) 4 Credit Hours**

Introduction to principles of physics, including fluids, thermodynamics, electricity and magnetism.

**Prerequisite:** PHY 12201.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 3 lecture, 2 lab

**Grade Mode:** Standard Letter

**Attributes:** Kent Core Basic Sciences, Kent Core Basic Sciences Lab

**PHY 13001 GENERAL COLLEGE PHYSICS I (KBS) 4 Credit Hours**

Principles of mechanics, heat and sound.

**Prerequisite:** MATH 11022 with a minimum C grade.

**Pre/corequisite:** MATH 12002 or MATH 12012 or MATH 12021.

**Corequisite:** PHY 13021.

**Schedule Type:** Lecture, Recitation

**Contact Hours:** 3 lecture, 1 other

**Grade Mode:** Standard Letter

**Attributes:** Kent Core Basic Sciences, TAG Science, Transfer Module Natural Sciences

**PHY 13002 GENERAL COLLEGE PHYSICS II (KBS) 4 Credit Hours**

Principles of electricity and magnetism, optics and modern physics.

Three hours lecture and one hour recitation weekly.

**Prerequisite:** PHY 13001 or PHY 23101.

**Corequisite:** PHY 13022.

**Schedule Type:** Lecture, Recitation

**Contact Hours:** 3 lecture, 1 other

**Grade Mode:** Standard Letter

**Attributes:** Kent Core Basic Sciences, TAG Science, Transfer Module Natural Sciences

**PHY 13011 COLLEGE PHYSICS I (KBS) 2 Credit Hours**

Principles of classical physics, primarily mechanics. Three-hour lecture and one-hour recitation weekly. This is a flexibly scheduled course that meets concurrently with PHY 13001 for the first half of the regular term.

**Prerequisite:** MATH 11022 with a minimum C grade.

**Pre/corequisite:** MATH 12002 or MATH 12012 or MATH 12021.

**Corequisite:** PHY 13021.

**Schedule Type:** Lecture, Recitation

**Contact Hours:** 3 lecture, 1 other

**Grade Mode:** Standard Letter

**Attributes:** Kent Core Basic Sciences, Transfer Module Natural Sciences

**PHY 13012 COLLEGE PHYSICS II (KBS) 2 Credit Hours**

Principles of classical physics, primarily electricity and magnetism.

**Prerequisite:** PHY 13001 or PHY 13011 or PHY 23101.

**Schedule Type:** Lecture, Recitation

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**Attributes:** Kent Core Basic Sciences, Transfer Module Natural Sciences

**PHY 13021 GENERAL COLLEGE PHYSICS LABORATORY I (KBS) (KLAB) 1 Credit Hour**

Introductory lab to accompany PHY 13001 or PHY 13011.

**Corequisite:** PHY 13001 or PHY 13011.

**Schedule Type:** Laboratory

**Contact Hours:** 2 lab

**Grade Mode:** Standard Letter

**Attributes:** Kent Core Basic Sciences, Kent Core Basic Sciences Lab, TAG Science, Transfer Module Natural Sciences

**PHY 13022 GENERAL COLLEGE PHYSICS LABORATORY II (KBS) (KLAB) 1 Credit Hour**

Introductory lab to accompany PHY 13002 or PHY 13012.

**Corequisite:** PHY 13002 or PHY 13012.

**Schedule Type:** Laboratory

**Contact Hours:** 2 lab

**Grade Mode:** Standard Letter

**Attributes:** Kent Core Basic Sciences, Kent Core Basic Sciences Lab, TAG Science, Transfer Module Natural Sciences

**PHY 20095 SPECIAL TOPICS 1-3 Credit Hours**

(Repeatable for credit) Topic announced when scheduled.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 1-3 lecture

**Grade Mode:** Standard Letter

**PHY 20096 INDIVIDUAL INVESTIGATION IN PHYSICS 1-6 Credit Hours**

(Repeatable for credit) Individual projects in physics.

**Prerequisite:** Special approval.

**Schedule Type:** Individual Investigation

**Contact Hours:** 1-6 other

**Grade Mode:** Standard Letter-IP

**PHY 21040 PHYSICS IN ENTERTAINMENT AND THE ARTS (KBS) 3 Credit Hours**

Descriptive introduction to physics underlying selected forms of art and entertainment. Examples are drawn from music, visual arts and communications media. Not counted toward requirements for physics major.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Kent Core Basic Sciences, Transfer Module Natural Sciences

**PHY 21041 PHYSICS IN ENTERTAINMENT AND THE ARTS LABORATORY (KBS) (KLAB) 1 Credit Hour**

Laboratory component of PHY 21040, two hours weekly.

**Pre/corequisite:** PHY 21040.

**Schedule Type:** Laboratory

**Contact Hours:** 2 lab

**Grade Mode:** Standard Letter

**Attributes:** Kent Core Basic Sciences, Kent Core Basic Sciences Lab, Transfer Module Natural Sciences

**PHY 21430 FRONTIERS IN ASTRONOMY (KBS) 3 Credit Hours**

Modern description of astrophysical observations, the results of these observations and the physical principles based on them. Not counted toward requirements for physics major.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Kent Core Basic Sciences, Transfer Module Natural Sciences

**PHY 21431 FRONTIERS IN ASTRONOMY LABORATORY (KBS) (KLAB) 1 Credit Hour**

Laboratory component of PHY 21430.

**Pre/corequisite:** PHY 21430.

**Schedule Type:** Laboratory

**Contact Hours:** 3 lab

**Grade Mode:** Standard Letter

**Attributes:** Kent Core Basic Sciences, Kent Core Basic Sciences Lab, Transfer Module Natural Sciences

**PHY 22564 INTRODUCTION TO MATERIALS PHYSICS 3 Credit Hours**

Survey of mechanical and electronic properties of materials with application in science and technology. Metals, semiconductors, ceramics, polymers and liquid crystals, and other special materials will be addressed.

**Prerequisite:** PHY 23102.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PHY 23101 GENERAL UNIVERSITY PHYSICS I (KBS) (KLAB) 5 Credit Hours**

Principles of mechanics, heat and sound at calculus level.

**Pre/corequisite:** MATH 12002.

**Schedule Type:** Laboratory, Lecture

**Contact Hours:** 4 lecture, 3 lab

**Grade Mode:** Standard Letter

**Attributes:** Kent Core Basic Sciences, Kent Core Basic Sciences Lab, TAG Science

**PHY 23102 GENERAL UNIVERSITY PHYSICS II (KBS) (KLAB) 5 Credit Hours**

Principles of electricity, magnetism, light and modern physics at calculus level.

**Prerequisite:** PHY 13001 or PHY 23101.

**Pre/corequisite:** MATH 12003.

**Schedule Type:** Laboratory, Lecture

**Contact Hours:** 4 lecture, 3 lab

**Grade Mode:** Standard Letter

**Attributes:** Kent Core Basic Sciences, Kent Core Basic Sciences Lab, TAG Science

**PHY 30020 INTERMEDIATE PHYSICS LABORATORY (WIC) 2 Credit Hours**

(Repeatable for credit) Experiments in classical and modern physics are selected to accompany and to supplement junior-level physics courses.

**Prerequisite:** PHY 36001 and 10 hours of additional physics courses.

**Schedule Type:** Laboratory

**Contact Hours:** 3 lab

**Grade Mode:** Standard Letter

**Attributes:** Writing Intensive Course

**PHY 30095 SPECIAL TOPICS 1-3 Credit Hours**

(Repeatable for credit) Topic announced when scheduled.

**Prerequisite:** Permission.

**Schedule Type:** Lecture

**Contact Hours:** 1-3 lecture

**Grade Mode:** Standard Letter

**PHY 32511 ELECTRONICS 4 Credit Hours**

'Hands-on' course to give the student a working knowledge of analog electronics and of AC and DC circuits typically used by the scientist.

**Prerequisite:** MATH 12002 and; PHY 13002 or PHY 23102.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 6 other

**Grade Mode:** Standard Letter

**PHY 34000 COSMOLOGY 3 Credit Hours**

This course will provide a quantitative introduction to modern cosmology, from the Big Bang to the formation of the first stars. Subjects include the evolution of the geometry and temperature of the universe its composition and select aspects of general relativity.

**Prerequisite:** PHY 36001.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PHY 35101 CLASSICAL MECHANICS 4 Credit Hours**

Modern description of mechanics including both LaGrangian and Hamilton formulations, with applications to central force, motion, coupled oscillations, rigid body motion and motion in non-inertial reference frames.

**Prerequisite:** PHY 23102 and MATH 32052.

**Schedule Type:** Lecture

**Contact Hours:** 4 lecture

**Grade Mode:** Standard Letter

**PHY 36001 INTRODUCTORY MODERN PHYSICS 3 Credit Hours**

Special theory of relativity, Rutherford-Bohr model of atom, quantization of light, matter waves, Schroedinger equation, hydrogen atom, electron spin, multi-electron atoms.

**Prerequisite:** MATH 12003 and PHY 23102.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PHY 36002 APPLICATIONS OF MODERN PHYSICS 3 Credit Hours**

Survey of applications of twentieth century physics. Topics include molecular bonding, conducting and insulating solids, degenerate matter, quantum condensates, subatomic and sub-nuclear particle physics, cosmology.

**Prerequisite:** PHY 36001.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PHY 40020 ADVANCED PHYSICS LABORATORY (WIC) 2 Credit Hours**

(Repeatable for credit) Advanced experiments in classical and modern physics are selected to accompany and to supplement senior-level physics courses.

**Prerequisite:** PHY 30020.

**Pre/corequisite:** 6 credit hours of 40000-level physics courses.

**Schedule Type:** Laboratory

**Contact Hours:** 3 lab

**Grade Mode:** Standard Letter

**Attributes:** Writing Intensive Course

**PHY 40060 PHYSICAL LITERATURE 1-3 Credit Hours**

Study of current or topical literature.

**Prerequisite:** Permission.

**Schedule Type:** Lecture

**Contact Hours:** 1-3 lecture

**Grade Mode:** Standard Letter

**PHY 40092 INTERNSHIP IN PHYSICS (ELR) 1-3 Credit Hours**

(Repeatable for credit) Supervised capstone experience in physics at a national laboratory, a research university in industry or at a local research site. No more than 3 credit hours may be applied toward the major electives for physics majors.

**Prerequisite:** Permission.

**Schedule Type:** Practical Experience

**Contact Hours:** 1-3 other

**Grade Mode:** Satisfactory/Unsatisfactory

**Attributes:** Experiential Learning Requirement

**PHY 40095 SPECIAL TOPICS 1-3 Credit Hours**

(Repeatable for credit) Topic announced when scheduled.

**Prerequisite:** Permission.

**Schedule Type:** Lecture

**Contact Hours:** 1-3 lecture

**Grade Mode:** Standard Letter

**PHY 40096 INDIVIDUAL INVESTIGATION (ELR) 1-6 Credit Hours**

(Repeatable for credit) Individual projects for physics majors.

**Prerequisite:** 20 hours of physics; and special approval of department chairperson.

**Schedule Type:** Individual Investigation

**Contact Hours:** 1-6 other

**Grade Mode:** Standard Letter-IP

**Attributes:** Experiential Learning Requirement

**PHY 40099 SENIOR HONORS THESIS (ELR) 1-10 Credit Hours**

Thesis for departmental, general or university honors must be 1-10 hours with continuous registration throughout the senior year beginning in the summer prior to the senior year. Students taking this course must consult with their department and the Honors College and receive approval prior to the first semester of the senior year.

**Prerequisite:** Honors senior standing; and special approval.

**Schedule Type:** Senior Project/Honors Thesis

**Contact Hours:** 1-10 other

**Grade Mode:** Standard Letter-IP

**Attributes:** Experiential Learning Requirement

**PHY 40195 SPECIAL TOPICS 1-3 Credit Hours**

(Repeatable for credit) (Slashed with PHY 50195) Topic announced when scheduled.

**Prerequisite:** Special approval.

**Schedule Type:** Lecture

**Contact Hours:** 1-3 lecture

**Grade Mode:** Standard Letter



**PHY 41010 BIOPHOTONICS 3 Credit Hours**

(Slashed with PHY 51010) (Cross-listed with BSCI 41110 and BSCI 51110 and CHEM 41010 and CHEM 51010) Interdisciplinary overview of the basics of biophotonics; application of biophotonic techniques to probe biological samples. Introduction to the foundations of optics and photonics and how the molecular structure of organic molecules translates into unique photonic properties and targeting in biological cells or tissue. Preparation of fluorescent materials, advanced spectroscopy and cell visualization using regular and confocal fluorescence microscopy.

**Prerequisite:** Special approval.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 1 lecture, 6 lab

**Grade Mode:** Standard Letter

**PHY 44600 INTRODUCTION TO BIOLOGICAL PHYSICS 3 Credit Hours**

Introduces ideas essential to physical understanding of biological systems. Topics include: introduction to molecular components of the cell; statistical mechanics and transport in biological systems; selected topics in biophysics.

**Prerequisite:** PHY 23102.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PHY 44802 ASTROPHYSICS 3 Credit Hours**

Galactic structure, stellar formation and evolution, origin of the elements (or nucleosynthesis), nonoptical astronomies, and description of various cosmological theories.

**Prerequisite:** MATH 12003.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PHY 45201 ELECTROMAGNETIC THEORY 4 Credit Hours**

Properties of electric and magnetic fields developed by vector methods. Treatment on static fields in vacuum and matter. Theory of classical electromagnetic fields with emphasis on dynamic fields.

**Prerequisite:** MATH 32052 and PHY 23102.

**Schedule Type:** Lecture

**Contact Hours:** 4 lecture

**Grade Mode:** Standard Letter

**PHY 45301 THERMAL PHYSICS 3 Credit Hours**

An introduction to thermodynamics and statistical mechanics, with applications in material science and engineering.

**Prerequisite:** PHY 36001.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PHY 45401 MATHEMATICAL METHODS IN PHYSICS 4 Credit Hours**

Consolidation of vector analysis, curvilinear coordinate systems, tensors, matrix algebra, vector spaces, common groups in physics, calculus of residues, contour integration, methods for differential equations in physics; additional topics important for physics selected from special functions, integral equations, calculus of variations.

**Prerequisite:** MATH 32052.

**Schedule Type:** Lecture

**Contact Hours:** 4 lecture

**Grade Mode:** Standard Letter

**PHY 45403 DATA ANALYSIS AND COMPUTATIONAL PHYSICS TECHNIQUES 3 Credit Hours**

(Slashed with PHY 55403) Study of uncertainties in physical measurements. Data reduction and error analysis techniques. Monte Carlo simulation method. Least-squares fits to data. Basic computational physics techniques.

**Prerequisite:** MATH 12003 and PHY 23102.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PHY 45501 ELECTROMAGNETIC WAVES AND MODERN OPTICS 3 Credit Hours**

Interactions between light and matter from both a macroscopic and microscopic perspective; producing and controlling light devices and spectroscopic techniques based on modern optics.

**Prerequisite:** PHY 45201.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PHY 46101 QUANTUM MECHANICS 4 Credit Hours**

Systematic introduction to the principles and solution techniques of quantum mechanics, including the Schroedinger equation in one and three dimensions. Topics include: angular momentum formalism, introductory Dirac notation and vector space formalism, intrinsic spin, identical particle systems and perturbation theory.

**Prerequisite:** PHY 36001.

**Pre/corequisite:** MATH 32052.

**Schedule Type:** Lecture

**Contact Hours:** 4 lecture

**Grade Mode:** Standard Letter

**PHY 46301 INTRODUCTION TO NUCLEAR AND PARTICLE PHYSICS 4 Credit Hours**

(Slashed with PHY 56301) Introduction to nuclear and particle physics including particle detectors and accelerators, experimental techniques, nuclear fission and fusion, nuclear reactors, medical applications, and connections to astrophysics and cosmology.

**Prerequisite:** PHY 36001.

**Pre/corequisite:** MATH 32052.

**Schedule Type:** Lecture

**Contact Hours:** 4 lecture

**Grade Mode:** Standard Letter

**PHY 46401 INTRODUCTION TO SOLID STATE PHYSICS 3 Credit Hours**

Fundamental unifying concepts and experimental techniques needed to understand thermal, electrical and optical properties of ions and electrons in solids. Special topics of current research.

**Prerequisite:** PHY 36002.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PHY 50020 ADVANCED PHYSICS LAB 2 Credit Hours**

(Repeatable for credit) Advanced experiments in classical and modern physics are selected to accompany and to supplement graduate-level physics courses.

**Prerequisite:** Graduate standing.

**Schedule Type:** Laboratory

**Contact Hours:** 3 lab

**Grade Mode:** Standard Letter

**PHY 50093 VARIABLE TITLE WORKSHOP IN PHYSICS 1-6 Credit Hours**

(Repeatable for credit) Workshops individually designed to provide instruction and training in specific areas of physics.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Workshop

**Contact Hours:** 1-6 other

**Grade Mode:** Satisfactory/Unsatisfactory

**PHY 50095 SPECIAL TOPICS 1-3 Credit Hours**

(Repeatable for credit) Topic announced when scheduled.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 1-3 lecture

**Grade Mode:** Standard Letter

**PHY 50096 INDIVIDUAL INVESTIGATION 1-3 Credit Hours**

(Repeatable for credit) Individual projects for physics graduate students.

**Prerequisite:** Graduate standing.

**Schedule Type:** Individual Investigation

**Contact Hours:** 1-3 other

**Grade Mode:** Standard Letter-IP

**PHY 50195 SPECIAL TOPICS 1-3 Credit Hours**

(Repeatable for credit) (Slashed with PHY 40195) Topic announced when scheduled.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 1-3 lecture

**Grade Mode:** Standard Letter

**PHY 51010 BIOPHOTONICS 3 Credit Hours**

(Slashed with PHY 41010) (Cross-listed with BSCI 41110 and BSCI 51110 and CHEM 41010 and CHEM 51010) Interdisciplinary overview of the basics of biophotonics; application of biophotonic techniques to probe biological samples. Introduction to the foundations of optics and photonics and how the molecular structure of organic molecules translates into unique photonic properties and targeting in biological cells or tissue. Preparation of fluorescent materials, advanced spectroscopy and cell visualization using regular and confocal fluorescence microscopy.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 1 lecture, 6 lab

**Grade Mode:** Standard Letter

**PHY 54600 INTRODUCTION TO BIOLOGICAL PHYSICS 3 Credit Hours**

Introduces ideas essential to physical understanding of biological systems. Topics include: introduction to molecular components of the cell; statistical mechanics and transport in biological systems; selected topics in biophysics.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PHY 54802 ASTROPHYSICS 3 Credit Hours**

Galactic structure, stellar formation and evolution, origin of the elements (or nucleosynthesis), non optical astronomies, and a description of various cosmological theories. Graduate standing.

**Prerequisite:** MATH 12003.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PHY 55201 ELECTROMAGNETIC THEORY 4 Credit Hours**

Properties of electric and magnetic fields developed by vector methods. Treatment of static fields in vacuum and matter. Theory of classical electromagnetic fields with emphasis on dynamic fields.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 4 lecture

**Grade Mode:** Standard Letter

**PHY 55301 THERMAL PHYSICS 3 Credit Hours**

An introduction to thermodynamics and statistical mechanics, with applications in material science and engineering.

**Prerequisite:** PHY 36001; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PHY 55401 MATHEMATICAL METHODS IN PHYSICS 4 Credit Hours**

Consolidation of vector analysis, curvilinear coordinate systems, tensors, matrix algebra, vector spaces, common groups in physics, calculus of residues, contour integration, methods for differential equations in physics; additional topics important for physics selected from special functions, integral equations, calculus of variations.

**Prerequisite:** MATH 32052; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 4 lecture

**Grade Mode:** Standard Letter

**PHY 55403 DATA ANALYSIS AND COMPUTATIONAL PHYSICS TECHNIQUES 3 Credit Hours**

(Slashed with PHY 45403) Study of uncertainties in physical measurements. Data reduction and error analysis techniques. Monte Carlo simulation method. Least-squares fits to data. Basic computational physics techniques.

**Prerequisite:** MATH 12003 and PHY 23102; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PHY 55501 ELECTROMAGNETIC WAVES AND MODERN OPTICS 3 Credit Hours**

Interactions between light and matter from both a macroscopic and microscopic perspective; producing and controlling light; devices and spectroscopic techniques based on modern optics.

**Prerequisite:** PHY 55201; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PHY 56101 QUANTUM MECHANICS 4 Credit Hours**

Systematic introduction to the principles and solution techniques of quantum mechanics, including the Schrodinger equation in one and three dimensions. Topics include: angular momentum formalism, introductory Dirac notation and vector space formalism, intrinsic spin, identical particle systems, and perturbation theory.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 4 lecture

**Grade Mode:** Standard Letter

**PHY 56301 INTRODUCTION TO NUCLEAR AND PARTICLE PHYSICS 4 Credit Hours**

(Slashed with PHY 46301) Introduction to nuclear and particle physics including particle detectors and accelerators, experimental techniques, nuclear fission and fusion, nuclear reactors, medical applications, and connections to astrophysics and cosmology.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 4 lecture

**Grade Mode:** Standard Letter

**PHY 56401 INTRODUCTION TO SOLID STATE PHYSICS 3 Credit Hours**

Fundamental unifying concepts and experimental techniques needed to understand thermal, electrical and optical properties of ions and electrons in solids. Special topics of current research.

**Prerequisite:** PHY 36002; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PHY 60091 PHYSICS SEMINAR 1 Credit Hour**

(Repeatable for credit) Discussion of current literature or of original research in physics. Participation by students, faculty and guests.

**Prerequisite:** Graduate standing.

**Schedule Type:** Seminar

**Contact Hours:** 1 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**PHY 60093 VARIABLE TITLE WORKSHOP IN PHYSICS 1-6 Credit Hours**

(Repeatable for credit) Workshops individually designed to provide instruction and training in specific areas of physics.

**Prerequisite:** Graduate standing.

**Schedule Type:** Workshop

**Contact Hours:** 3 other

**Grade Mode:** Satisfactory/Unsatisfactory

**PHY 60094 COLLEGE TEACHING OF PHYSICS 1-3 Credit Hours**

(Repeatable for credit) Methodology of teaching in a university, college or junior college. Includes observation of kinds of teaching and practice teaching.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 1-3 lecture

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**PHY 60098 RESEARCH 1-15 Credit Hours**

(Repeatable for credit) Research or individual investigation. Credits earned may be applied toward meeting degree requirements if department approves.

**Prerequisite:** Graduate standing.

**Schedule Type:** Research

**Contact Hours:** 1-15 other

**Grade Mode:** Standard Letter-IP

**PHY 60199 THESIS I 2-6 Credit Hours**

Thesis students must register for total of 6 hours, 2 to 6 hours in a single semester distributed over several semesters if desired.

**Prerequisite:** Graduate standing; and special approval of advisor.

**Schedule Type:** Masters Thesis

**Contact Hours:** 2-6 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**PHY 60295 ADVANCED TOPICS 1-3 Credit Hours**

(Repeatable for credit) Selected special topics of current research interest.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter-IP

**PHY 60299 THESIS II 2 Credit Hours**

Thesis students must continue registration each semester until all degree requirements are met.

**Prerequisite:** PHY 60199; and graduate standing.

**Schedule Type:** Masters Thesis

**Contact Hours:** 2 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**PHY 64101 ADVANCED PROBLEM SOLVING IN PHYSICS 3 Credit Hours**

(Slashed with 741010) The course imparts advanced problem-solving skills not acquired in regular courses. Examples from four basic areas of physics (classical mechanics, electricity and magnetism, quantum mechanics and statistical physics) will be emphasized.

**Prerequisite:** PHY 65101 or PHY 65203 or PHY 66161 or PHY 65301; or graduate standing; and departmental instructor approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PHY 65101 CLASSICAL MECHANICS 3 Credit Hours**

Lagrange's equations, variational principles, two-body central force problem and rigid body motion. Hamilton's equations, canonical transformations, Hamilton-Jacobi theory and small oscillations.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PHY 65203 CLASSICAL ELECTRODYNAMICS I 3 Credit Hours**

Introduction to electrostatics, boundary-value problems, multipoles, electrostatics of macroscopic media, magnetostatics, time-varying fields, Maxwell's equations, conservation laws.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PHY 65204 CLASSICAL ELECTRODYNAMICS II 3 Credit Hours**

Plane electromagnetic waves, simple radiating systems, scattering, special theory of relativity, relativistic dynamics, radiation of moving charges, Bremsstrahlung.

**Prerequisite:** PHY 65203; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PHY 65301 STATISTICAL MECHANICS I 4 Credit Hours**

An introduction to statistical mechanics, including classical and quantum statistics. Derives thermodynamic quantities from a statistical viewpoint.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 4 lecture

**Grade Mode:** Standard Letter

**PHY 66161 QUANTUM MECHANICS I 3 Credit Hours**

Fundamental concepts of non-relativistic quantum mechanics. Solution of simple one dimensional problems. Abstract Hilbert-space description. Matrix representations. Quantum dynamics. Extension to three dimensions. Spin and orbital angular momentum.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PHY 66162 QUANTUM MECHANICS II 3 Credit Hours**

Angular momentum theory. Symmetries and conservation laws. Application of approximation methods to realistic problems. Systems of identical particles. Scattering theory. Relativistic single particle wave equations.

**Prerequisite:** PHY 66161; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PHY 66201 PARTICLE PHYSICS 3 Credit Hours**

Discussion of particle detectors, invariance principles and conservation laws, fundamental interactions, quark model of hadrons, basic concepts of field theory, the Standard Model and selected topics of current interest.

**Prerequisite:** PHY 66162; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PHY 66302 MODERN NUCLEAR PHYSICS 3 Credit Hours**

Survey of basic physics of nucleons and nuclei including associated experimental techniques, emphasizing interaction of radiation with matter. Applications covered include detectors, electron scattering from nuclei, quark-parton model of the nucleon, heavy-ion collisions, quark-gluon plasma, and nuclear astrophysics.

**Prerequisite:** PHY 56101; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PHY 66401 SOLID STATE PHYSICS I 3 Credit Hours**

Crystalline state, with emphasis on wave propagation, zone and band theory, phonons. Applications to electrical and thermal conductivities, specific heats, optical, dielectric and magnetic properties.

**Prerequisite:** PHY 56101 or PHY 66161; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PHY 66403 ADVANCED CONDENSED MATTER PHYSICS 3 Credit Hours**

(Slashed with PHY 76403) Advanced theories of solids, fluids, superfluids, magnetic, ferroelectric and liquid crystal systems and the experimental methods that probe them.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PHY 68401 LIQUID CRYSTAL PHYSICS 3 Credit Hours**

The molecular structure and properties of liquid crystals and their role in biological systems and industrial applications.

**Prerequisite:** Graduate standing in physics or chemical physics.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PHY 70094 COLLEGE TEACHING OF PHYSICS 1-3 Credit Hours**

(Repeatable for credit) Methodology of teaching in a university, college or junior college. Includes observation of kinds of teaching and practice teaching.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 1-3 lecture

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**PHY 70095 SPECIAL TOPICS 1-3 Credit Hours**

(Repeatable for credit) Topic announced when scheduled.

**Prerequisite:** Doctoral standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 1-3 lecture

**Grade Mode:** Standard Letter

**PHY 74101 ADVANCED PROBLEM SOLVING IN PHYSICS 3 Credit Hours**

The course imparts advanced problem-solving skills not acquired in regular courses. Examples from four basic areas of physics (classical mechanics, electricity and magnetism, quantum mechanics and statistical physics) will be emphasized.

**Prerequisite:** PHY 65101 or PHY 65203 or PHY 66161 or PHY 65301; or doctoral standing; and departmental instructor approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PHY 75101 CLASSICAL MECHANICS 3 Credit Hours**

Lagrange's equations, variational principles, two-body central force problems, rigid body motion, Hamilton's equations, canonical transformations, Hamilton-Jacobi theory, small oscillations.

**Prerequisite:** Doctoral standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PHY 75203 CLASSICAL ELECTRODYNAMICS I 3 Credit Hours**

Introduction to electrostatics, boundary value problems, multipoles, electrostatics of macroscopic media, magnetostatics, time-varying fields, Maxwell's equations, conservation laws.

**Prerequisite:** Doctoral standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PHY 75204 CLASSICAL ELECTRODYNAMICS II 3 Credit Hours**

Plane electromagnetic waves, simple radiating systems, scattering special theory of relativity, relativistic dynamics, radiation of moving charges, Bremsstrahlung.

**Prerequisite:** PHY 65203; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PHY 75301 STATISTICAL MECHANICS I 4 Credit Hours**

An introduction to statistical mechanics, including classical and quantum statistics. Derives thermodynamic quantities from a statistical viewpoint.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 4 lecture

**Grade Mode:** Standard Letter

**PHY 76161 QUANTUM MECHANICS I 3 Credit Hours**

Fundamental concepts of non-relativistic quantum mechanics. Solution of simple one dimensional problems. Abstract Hilbert space description. Matrix representations. Quantum dynamics. Extension to three dimensions. Spin and orbital angular momentum.

**Prerequisite:** Doctoral standing; and permission.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PHY 76162 QUANTUM MECHANICS II 3 Credit Hours**

Angular momentum theory. Symmetries and conservation laws. Application of approximation methods to realistic problems. Systems of identical particles. Scattering theory. Relativistic single particle wave equations.

**Prerequisite:** PHY 66161; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PHY 76163 QUANTUM MECHANICS III 3 Credit Hours**

Second quantization and field theory formalism are developed for the many-particle system. Topics include the electron gas and nuclear matter.

**Prerequisite:** PHY 66162; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PHY 76201 PARTICLE PHYSICS 3 Credit Hours**

Discussion of particle detectors, invariance principles and conservation laws, fundamental interactions, quark model of hadrons, basic concepts of a field theory, the Standard Model and selected topics of current interest.

**Prerequisite:** PHY 66162 or 76162; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PHY 76303 APPLICATIONS OF QUANTUM CHROMODYNAMICS 3 Credit Hours**

Introduces the key attributes and techniques of Quantum Chromodynamics, which is the relativistic quantum field theory of the strong interaction. Topics treated include the properties, structure and interactions of strongly interacting sub-nuclear particles (hadrons) and the physics of hadronic and nuclear matter at finite temperature and density, as applicable to modern nuclear particle physics research.

**Prerequisite:** PHY 76163.

**Corequisite:** PHY 66201 or PHY 76201.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PHY 76401 SOLID STATE PHYSICS I 3 Credit Hours**

Crystalline state, with emphasis on wave propagation zone and band theory phonons. Applications to electrical and thermal conductivities specific heats optical dielectric and magnetic properties.

**Prerequisite:** PHY 56101 or PHY 66161 or 76161; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PHY 76403 ADVANCED CONDENSED MATTER PHYSICS 3 Credit Hours**

(Slashed with PHY 66403) Advanced theories of solids, fluids, superfluids, magnetic, ferroelectric and liquid crystal systems, and the experimental methods that probe them.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PHY 78401 LIQUID CRYSTAL PHYSICS 3 Credit Hours**

The molecular structure and properties of liquid crystals and their role in biological systems and industrial applications.

**Prerequisite:** Doctoral standing in physics or chemical physics.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PHY 80091 PHYSICS SEMINAR 1 Credit Hour**

(Repeatable for credit) Discussion of current literature or of original research in physics. Participation by students, faculty and guests.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Seminar

**Contact Hours:** 1 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**PHY 80097 PHYSICS COLLOQUIUM 1 Credit Hour**

(Repeatable for credit) Presentation by invited speakers of research and other topics on graduate level followed by discussion period. Regular attendance of all physics majors expected. Three or more meetings each semester as arranged.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Colloquium

**Contact Hours:** 1 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**PHY 80098 RESEARCH 1-15 Credit Hours**

(Repeatable for credit) Research or individual investigation for doctoral students who have not yet passed their candidacy exams. Credit earned may be applied toward the degree if the department approves.

**Prerequisite:** Doctoral standing; and special approval.

**Schedule Type:** Research

**Contact Hours:** 1-15 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**PHY 80199 DISSERTATION I 15 Credit Hours**

(Repeatable for credit) Doctoral dissertation, for which registration in at least two semesters is required; the first of which will be the semester in which dissertation work is begun, and continuing until the completion of 30 hours.

**Prerequisite:** Doctoral standing; and special approval.

**Schedule Type:** Dissertation

**Contact Hours:** 15 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP



**PHY 80299 DISSERTATION II 15 Credit Hours**

(Repeatable for credit) Continuing registration required of doctoral students who have completed the initial 30 hours of dissertation and continuing until all degree requirements are met.

**Prerequisite:** PHY 80199; and doctoral standing.

**Schedule Type:** Dissertation

**Contact Hours:** 15 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

## Podiatric Biomechanics and Orthopedics (ORT)

**ORT 80131 BIOMECHANICS I 3 Credit Hours**

Biomechanics is a comprehensive course, which stresses normal gait and foot function. Abnormalities in gait of foot mechanics are related to foot pathology.

**Prerequisite:** Enrolled in the college of podiatric medicine.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ORT 80132 REHABILITATIVE MEDICINE 2 Credit Hours**

Rehabilitative Medicine reviews various physical therapy modalities and principles of rehabilitation. Examples of application of these principles as relating to foot pathology are given.

**Prerequisite:** Enrolled in the college of podiatric medicine.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**ORT 80211 BIOMECHANICS II 2 Credit Hours**

Biomechanics II introduces common foot pathologies and their effects on function. The examination techniques utilized in the evaluation of patients are introduced as is the use of foot orthotic devices and computers in the assessment of biomechanical pathology.

**Prerequisite:** Enrolled in the College of Podiatric Medicine.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**ORT 80325 SPORTS MEDICINE 2 Credit Hours**

Sports Medicine is a comprehensive course. Students gain an understanding of running biomechanics, shoe gear construction and evaluation, and the incidence, etiology, pathomechanics, evaluation and treatment of many lower extremity sports pathologies.

**Prerequisite:** Enrolled in the college of podiatric medicine.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

## Podiatric Medicine (PMD)

**PMD 80113 MEDICAL ETHICS 1 Credit Hour**

The focus of the medical ethics curriculum is to provide a foundation in ethical analysis, augment knowledge of contemporary bioethics issues, and offer experience applying ethical reasoning to clinical cases. The goal of this course is to promote discussion of the ethical responsibilities of a doctor to their patients.

**Prerequisite:** Enrolled in the college of podiatric medicine.

**Schedule Type:** Lecture

**Contact Hours:** 1 lecture

**Grade Mode:** Standard Letter

**PMD 80114 PRINCIPLES OF MEDICAL RESEARCH 1 Credit Hour**

It is important for a podiatric physician to have developed the ability to read and interpret the medical literature. This requires a fundamental understanding of biostatistics, epidemiology, and research design. This course provides a framework for the development of an evidence-based methodology to patient care.

**Prerequisite:** Enrolled in the college of podiatric medicine.

**Schedule Type:** Lecture

**Contact Hours:** 1 lecture

**Grade Mode:** Standard Letter

**PMD 80117 PODIATRY, PROFESSIONALISM AND SOCIETY I 1 Credit Hour**

This introductory course is the first in a series that spans all four years of the DPM program. The subject matter is functionally relevant but nontraditional in nature with respect to classic medical education. Topics cover a wide range of subjects that podiatric medical students encounter in their academic and professional careers. Students will participate in discussions and projects on ethics, socio-behavior, and practice related topics such as professionalism, communication, and time and financial management. Other topics related to the National Board Examinations, personal health, and the changing healthcare system will also be covered. Ultimately students will develop a more unique level understanding and appreciation of the above referenced themes as they advance their learning. An emphasis on the first year of podiatric medical school is the focus of this course.

**Prerequisite:** Enrolled in the college of podiatric medicine.

**Schedule Type:** Lecture

**Contact Hours:** 1 lecture

**Grade Mode:** Standard Letter

**PMD 80132 LOW EXTREMITY ASSESSMENT AND DIAGNOSIS 2 Credit Hours**

A comprehensive approach to physical examination, which combines the patient's symptoms and the physical signs to arrive at a diagnosis of disease. It is accomplished by training students in the methods of history taking and physical examination. The course focuses on lower extremity examination. The traditional processes of inspection, palpation, percussion and auscultation are emphasized.

**Prerequisite:** Enrolled in the college of podiatric medicine.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 1 lecture, 2 lab

**Grade Mode:** Standard Letter

**PMD 80133 INTRODUCTION MEDICAL IMAGING 1 Credit Hour**

Podiatric physicians are fully licensed to order, perform and interpret radiologic studies of the foot and ankle. As operators of ionizing x-ray equipment, all practitioners must undergo basic training in x-ray physics, image control and quality assurance, safety and patient positioning. These four building blocks comprise the foundation of this course in fundamentals.

**Prerequisite:** Student must be enrolled in the college of podiatric medicine.

**Schedule Type:** Lecture

**Contact Hours:** 1 lecture

**Grade Mode:** Standard Letter

**PMD 80211 PODIATRIC MEDICINE I 2 Credit Hours**

This is a core course designed to present the 2nd year student with the full spectrum of pathology, which he or she will encounter during his or her clinical training and later in private practice. Topics include infectious disease, wound care, rheumatology, vascular medicine, and the diabetic foot. The student will be instructed in the evaluation of foot and ankle pathology including signs, symptoms, and differential diagnosis. Laboratory and radiographic evaluation will be discussed when appropriate. The student will also be instructed in the treatment alternatives available in each case.

**Prerequisite:** Enrolled in the college of podiatric medicine.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**PMD 80214 RADIOLOGY AND MEDICAL IMAGING I 2 Credit Hours**

This course encompasses the fundamentals of modern musculoskeletal imaging, with particular emphasis on the foot and ankle. The course begins with basic principles of plain film radiographic imaging, an approach that emphasizes the correlation of abnormal findings with basic pathologic differential consideration. Lectures will then introduce the student to pedal biomechanical radiography before moving to cover the imaging topics such as the pedal arthropathies, infection and the diabetic foot. The semester will end with a detailed presentation of the diabetic neuro-osteoarthropathy (Charcot arthropathy).

**Prerequisite:** Enrolled in the college of podiatric medicine.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**PMD 80217 PODIATRY, PROFESSIONALISM AND SOCIETY II 1 Credit Hour**

This course is the second in a series that spans all four years of the DPM program. The subject matter is functionally relevant but nontraditional in nature with respect to classic medical education. Topics cover a wide range of subjects that podiatric medical students encounter in their academic and professional careers. Students will participate in discussions and projects on ethics, socio-behavior, and practice related topics such as professionalism, communication, and time and financial management. Other topics related to personal health, and the changing healthcare system will also be covered. Ultimately students will develop a more unique level understanding and appreciation of the above referenced themes as they advance their learning. The content will be relevant to the second year podiatric medical school student.

**Prerequisite:** Enrolled in the college of podiatric medicine.

**Schedule Type:** Lecture

**Contact Hours:** 1 lecture

**Grade Mode:** Standard Letter

**PMD 80221 PODIATRIC MEDICINE II 2 Credit Hours**

This is a core course designed to present the 2nd year student with the full spectrum of pathology, which he or she will encounter during his or her clinical training and later in private practice. Topics include infectious disease, wound care, peripheral neuropathy, vascular medicine, and the diabetic foot. The student will be instructed in the evaluation of foot and ankle pathology including signs, symptoms, and differential diagnosis. Laboratory and radiographic evaluation will be discussed when appropriate. The student will also be instructed in the treatment alternatives available in each case.

**Prerequisite:** Enrolled in the college of podiatric medicine.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**PMD 80222 PODIATRIC MEDICAL SKILLS 2 Credit Hours**

Podiatric Medical Skills is a practical course, which includes strapping and padding, instrument dexterity, local anesthetic injection, nail avulsion technique, blood glucose finger stick, handheld Doppler exam, fitting for diabetic shoes, arthrometric examination and casting for orthoses. Students are taught the indications and proper application of adhesive bandages and splints for the prevention of injury, control of foot function and treatment of injuries to the foot and lower extremity. Padding is the treatment of foot pathology by redistribution of weight, stress and friction. Students are taught how to relieve acute and chronic pathologies of the foot through the use of various padding materials, or prefabricated pads. Students also gain an understanding of the theory of pad placement. Students are taught the proper techniques for performing toenail avulsions, blood glucose finger sticks, and using the handheld Doppler. Students are taught the proper methods of fitting for diabetic shoes, performing a foot and ankle arthrometric examination and casting methods for foot orthoses.

**Prerequisite:** Enrolled in the college of podiatric medicine.

**Schedule Type:** Laboratory

**Contact Hours:** 2 lab

**Grade Mode:** Satisfactory/Unsatisfactory

**PMD 80224 RADIOLOGY AND MEDICAL IMAGING II 2 Credit Hours**

The Spring semester course will continue to the topic of imaging complex diabetic foot problems, focusing on non-invasive imaging modalities as potential problem solvers. The first of these will be radionuclide imaging modalities, which will be covered in detail. From the diabetic foot, the course will then logically continue onto defining and then detailing the classic metabolic bone disorders. The course will then delve into the basics of MR and CT sectional imaging. The course will then formally cover applications to common pedal problems such as infection, trauma, and bone and soft tissue tumors. The course will then conclude with an introduction to diagnostic musculoskeletal ultrasound.

**Prerequisite:** Enrolled in the college of podiatric medicine.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**PMD 80317 PODIATRY PROF SOCIETY III 1 Credit Hour**

This course is the third in a series that spans all four years of the DPM program. The subject matter is functionally relevant but nontraditional in nature with respect to classic medical education. Topics cover a wide range of subjects that podiatric medical students encounter in their academic and professional careers. Student will participate in discussions and projects on ethics, socio-behavior, and practice related topics related to personal health and the changing healthcare system will also be covered. Ultimately, students will develop a more unique level understanding and appreciation of the above referenced themes as they advance their learning. The content will be relevant to the third year podiatric medical school student.

**Prerequisite:** Enrolled in the college of podiatric medicine.

**Schedule Type:** Lecture

**Contact Hours:** 1 lecture

**Grade Mode:** Standard Letter

**PMD 80318 PEDIATRICS 2 Credit Hours**

Pediatrics is a comprehensive course, which introduces general pediatric pathologic processes, pediatric H&P, and emphasizes the incidence, etiology, pathomechanics, evaluation and treatment of common lower extremity pathology in children.

**Prerequisite:** This course has prerequisites of successful completion of all 1st and 2nd year curriculum in the college of podiatric medicine.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**PMD 80396 INDEPENDENT STUDY 5 Credit Hours**

Independent study in Podiatric Medicine.

**Prerequisite:** Enrolled in the college of podiatric medicine.

**Schedule Type:** Individual Investigation

**Contact Hours:** 5 other

**Grade Mode:** Satisfactory/Unsatisfactory

**PMD 80417 PODIATRY, PROFESSIONALISM AND SOCIETY IV 4 Credit Hours**

This course is the last in a series that spans all four years of the DPM program. The subject matter is functionally relevant but nontraditional in nature with respect to classic medical education. Topics cover a wide range of subjects that podiatric medical students encounter in their academic and professional careers. Students will practice self-directed learning while preparing for graduation. There will be discussions and projects in various areas as ethics, social behavior, and practice related topics such as professionalism, communication, business, and courtroom law/malpractice. Other topics related to personal health, and the changing healthcare system will also be covered. Ultimately, students will develop a more unique level understanding and appreciation of the above referenced themes as they finalize their DPM degree program. The content will be relevant to the fourth year podiatric medical school student.

**Prerequisite:** Enrolled in the college of podiatric medicine.

**Schedule Type:** Lecture

**Contact Hours:** 4 lecture

**Grade Mode:** Standard Letter

**PMD 80495 ST PODIATRIC GEN MED 1-4 Credit Hours**

(Repeatable for maximum 8 credit hours) The special topics course is to sample new offerings on various topics.

**Prerequisite:** Enrolled in the college of podiatric medicine.

**Schedule Type:** Lecture

**Contact Hours:** 1-4 lecture

**Grade Mode:** Standard Letter

## Podiatric Surgery (SUR)

**SUR 80221 INTRODUCTION TO PODIATRIC SURGERY 2 Credit Hours**

This course is designed to provide the 2nd year podiatric medical student with a comprehensive understanding of the basic and fundamental principles and techniques of surgery, with emphasis on wound healing, closure techniques, hemostasis, lower extremity tourniquets and basic surgical procedures. Surgical and hospital protocol, charting, instrumentation and injection techniques are taught in this course, along with basic forefoot surgery, including nail disorders, soft tissue, skin tumors and digital surgery. The use of local anesthetic agents including indications, classification, pharmacology, adverse reactions (and treatment of such reactions) and injection techniques will be discussed. In addition, the course provides an orientation to operating room protocol, allowing students to master necessary techniques of asepsis, gowning, gloving and surgical scrubbing. Introduction to these skills will be taught in weekly workshops in the surgical skills lab.

**Prerequisite:** Enrolled in the college of podiatric medicine.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**SUR 80313 PODIATRIC SURGERY 2 Credit Hours**

A comprehensive working knowledge of common deformities of the foot is essential to the podiatric physician in providing comprehensive care of patients. This course provides the 3rd year podiatric medical student with the knowledge of surgical management of patients and their foot deformities. The course includes material on the etiology, clinical and radiographic evaluation, indications and contraindications, as well as postoperative considerations and care. These courses discuss the surgical management of deformities of the foot, ankle and lower leg and include surgical complications. In addition, several lectures are dedicated to special topics, such as AO/ASIF Fixation, Bio-materials, Arthroscopic surgical procedures and reconstructive foot and ankle procedures. Weekly skills workshops will be held in the surgical skills laboratory. Emphasis is placed on current and prevailing concepts and techniques employed by the podiatric physician.

**Prerequisite:** Enrolled in the college of podiatric medicine.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**SUR 80323 PODIATRIC SURGERY 2 Credit Hours**

A comprehensive working knowledge of common deformities of the foot is essential to the podiatric physician in providing comprehensive care of patients. This course provides the 3rd year podiatric medical student with the knowledge of surgical management of patients and their foot deformities. The course includes material on the etiology, clinical and radiographic evaluation, indications and contraindications, as well as postoperative considerations and care. These courses discuss the surgical management of deformities of the foot, ankle and lower leg and include surgical complications. In addition, several lectures are dedicated to special topics, such as AO/ASIF Fixation, Bio-materials, Arthroscopic surgical procedures and reconstructive foot and ankle procedures. Weekly skills workshops will be held in the surgical skills laboratory. Emphasis is placed on current and prevailing concepts and techniques employed by the podiatric physician.

**Prerequisite:** Enrolled in the college of podiatric medicine.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**SUR 80325 TRAUMATOLOGY 2 Credit Hours**

The purpose of the course is to provide the 3rd year podiatric medical students with a broad overview and appreciation of the major trauma areas of the foot, including the midfoot, rearfoot, ankle and lower leg. A strong effort is made to correlate the mechanical, surgical, physiologic and anatomic principles of surgery with emphasis on their implications and applications in major reconstructive surgery and the management of the trauma patient who presents with foot and or ankle trauma. Surgical procedures for the management of specific trauma situations will be discussed, as well as indications, contraindications, and post-operative management. An overall view of the trauma patient as viewed in a Level I trauma center will also be included as this is a major responsibility for the podiatric physician treating the trauma patient.

**Prerequisite:** Enrolled in the college of podiatric medicine.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

## Political Science (POL)

**POL 10001 INTRODUCTION TO POLITICAL SCIENCE 3 Credit Hours**

Introduction to the history and structure of political science, including its relationship to neighboring disciplines. Course asks what does it mean to study politics? What does it mean to study politics scientifically? What are the consequences of different conceptions of politics?

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**POL 10004 COMPARATIVE POLITICS (DIVG) (KSS) 3 Credit Hours**

Introduces the different institutional structures of governance (e.g., parliamentary versus presidential systems) in a range of different states for different types of regimes (e.g. democratic and authoritarian) and at the international level.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Diversity Global, Kent Core Social Sciences, TAG Social and Behavioral Sciences, Transfer Module Social Sciences

**POL 10100 AMERICAN POLITICS (DIVD) (KSS) 3 Credit Hours**

Covers the basic elements of politics at the national level in the United States, including structures, processes, behaviors, institutions, policies. Special emphasis is given to conflicting theories of power as they apply to different economic, sexual and racial groups.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Diversity Domestic, Kent Core Social Sciences, TAG Social and Behavioral Sciences, Transfer Module Social Sciences

**POL 10300 PUBLIC POLICY 3 Credit Hours**

Course provides a survey of basic public policy concepts and processes within an historical context. Course incorporates applied work to bridge conceptual understanding and empirical cases.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**POL 10500 WORLD POLITICS (DIVG) (KSS) 3 Credit Hours**

A practical, theoretical introduction to a study of systematic patterns in international relations. Includes analysis of rules, instruments, processes, decision-making factors, conflict resolution.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Diversity Global, Kent Core Social Sciences, TAG Social and Behavioral Sciences, Transfer Module Social Sciences

**POL 10504 THE NEW PANGAEA: YOUR ROLE IN OUR GLOBAL COMMUNITY 3 Credit Hours**

Introduces students to the myriad ways in which they are individually and collectively connected to the global community. Looking specifically at ways in which people are interconnected as consumers, patients, donors and participants in discourse, the course introduces students to the concepts, institutions and dynamics of globalization. Through assignments that focus on important global issues and engage students directly with the global community, students will (a) learn how to engage the global community as informed consumers of information, (b) understand the basic structure of the global political arena, (c) learn how to engage actively and consciously within that arena and (d) understand the ways in which their daily behavior impacts global trends.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**POL 30000 MAY 4 1970 AND ITS AFTERMATH 3 Credit Hours**

(Cross-listed with PACS 30000) Study of the events of the 1960s in the United States leading up to May 4, 1970, when the Ohio National Guard killed and wounded Kent State University students protesting the war in Vietnam and Cambodia. Topics are considered within their cultural, historical, social and political contexts. Course also examines the aftermath of May 4, including the controversy over constructing the Gym Annex on the site of the shootings, the legal trials, the role of commemorations and memorials and the politics of remembering May 4, 1970.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**POL 30001 RESEARCH METHODS (ELR) 3 Credit Hours**

Course is designed to bring students to a basic level of 'statistical literacy' by introducing the fundamentals of research design and interpretation; as well as to basic descriptive and inferential statistics.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Experiential Learning Requirement

**POL 30002 POLITICAL THOUGHT 3 Credit Hours**

Courses introduces students to basic methodological and substantive concerns in the tradition of western political thought.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter



**POL 30003 POLITICAL ECONOMY 3 Credit Hours**

Introduction to the fundamental questions surrounding the relationship between the public and private sectors, considered from the perspective of the state and its major political institutions. Of central concern is the growing internationalization of capital and its consequences for both domestic and international politics.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**POL 30100 AMERICAN POLITICAL THEORY 3 Credit Hours**

Major political ideas and controversies associated with the development of American political thought. Nonmajors should contact the Department of Political Science for a prerequisite override.

**Prerequisite:** POL 10100.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**POL 30110 THE CONGRESS 3 Credit Hours**

Course covers the powers of Congress, its organization, leadership of the two houses, role of the parties, relationships with the chief executive and the executive agencies, as well as recent reforms enacted by the House and Senate.

**Prerequisite:** POL 10100.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**POL 30120 PRESIDENCY AND EXECUTIVE BUREAUCRACY 3 Credit Hours**

Intensive study of the American presidency, focusing on personality, organization of the office, use and misuse of power and policy making.

**Prerequisite:** POL 10100.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**POL 30130 THE JUDICIAL PROCESS 3 Credit Hours**

Intensive study of the judicial process in United States and the relationship between the judicial system and the larger American social system. Nonmajors should contact the Department of Political Science for a prerequisite override.

**Prerequisite:** POL 10100.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**POL 30300 PUBLIC POLICY THEORY 3 Credit Hours**

The core issues of public policy process, institutional contexts and ethical considerations form the basis of this introductory survey of traditional and contemporary theories of public policy.

**Prerequisite:** POL 10300.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**POL 30301 INTRODUCTION TO PUBLIC ADMINISTRATION 3 Credit Hours**

Introduction to the theory and practice of governmental administration, including structure, organization, direction and control of governmental departments and agencies.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**POL 30310 PUBLIC POLICY ANALYSIS 3 Credit Hours**

Introduces students to the political and economic tools used to analyze public policies and discusses the political elements influencing that analysis. Essentially, the goal is to ensure that students understand the basic economic principles used to evaluate different public policy proposals while questioning the assumptions underlying those economic assumptions.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**POL 30350 ENVIRONMENTAL CONFLICT RESOLUTION 3 Credit Hours**

(Cross-listed with PACS 35050) Examines alternative dispute resolution principles applicable to complex, multi-party public sector disputes, especially environmental and land use disputes. Students learn about deliberative democracy, a variety of circle processes, consensus decision-making, collaborative problem-solving, digital dialogue processes and town hall meeting structures, among others. Case studies of environmental conflicts and multi-party mediation simulations are used.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**POL 30430 OHIO POLITICS 3 Credit Hours**

Addresses the history, structure, and current practices of politics and public policy in Ohio.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**POL 30450 URBAN POLITICS AND POLICY 3 Credit Hours**

Discusses local governance in the context of metropolitan change, and covers issues such as governing capacity, local democracy, individual choice and economic and racial inequality. Examines the formal and informal arrangements that shape change and public policy. Nonmajors should contact the Department of Political Science for a prerequisite override.

**Prerequisite:** POL 10100 or POL 10300.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter



**POL 30460 STATE POLITICS AND POLICY 3 Credit Hours**

Introduces the theoretical and legal infrastructures of federalism and intergovernmental relations, with a particular emphasis on political and policy operations at the state level. Political behavior and institutions, as well as the specifics of selected, substantive policy areas are emphasized.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**POL 30500 INTERNATIONAL RELATIONS THEORY 3 Credit Hours**

Course introduces competing theoretical approaches to the study of international relations; an examination of the historical developments followed by an examination of current issues in world politics.

**Prerequisite:** POL 10500.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**POL 30511 PROBLEMS OF INTERNATIONAL ORGANIZATION 3 Credit Hours**

Intensive study of major European problems handled by international organizations, including the United Nations and nongovernmental organizations. Combines classroom and field investigations. Registration in the Geneva semester required.

**Prerequisite:** Special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**POL 30520 EUROPEAN POLITICS (DIVG) 3 Credit Hours**

Examines major European national political systems (British, French, German, Russian and Scandinavian) relations between the European states, the institutions of the European Union and prospects and problems of European integration.

**Prerequisite:** POL 10004 or POL 10500.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Diversity Global

**POL 30530 ASIAN POLITICS (DIVG) 3 Credit Hours**

Introduction to the political, economic and social dynamics of Asia, from Siberia in the north to the Indian Ocean in the south, and from the Pacific Ocean in the east to the Hindu Kush in the west. The first part of the course examines Asia's modern political history (particularly the past half-century). The second part of the course focuses on contemporary issues, including the roles of the United States and sub-regional actors, such as the Association of Southeast Asian Nations (ASEAN).

**Prerequisite:** POL 10004 or POL 10500.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Diversity Global

**POL 30540 AFRICAN POLITICS (DIVG) 3 Credit Hours**

An analysis of major issues in African politics and international relations. The contemporary development of Africa will be analyzed in the global context of the historical forces of imperialism and colonialism.

**Prerequisite:** POL 10004 or POL 10500.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Diversity Global

**POL 30550 LATIN AMERICAN POLITICS (DIVG) 3 Credit Hours**

Analysis of political culture/process in selected Latin American states, with particular emphasis on Mexico, Brazil, Argentina and Columbia.

**Prerequisite:** POL 10004 or POL 10500.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Diversity Global

**POL 30560 MIDDLE EAST POLITICS (DIVG) 3 Credit Hours**

Introduces students to the theory and context of politics in the Middle East in a way that contests the often-simplistic stereotypes communicated through Western media and throughout Western culture, in order to encourage a more nuanced appreciation of the Middle East. Theoretical approaches utilized include modernization, dependency, structuralism and constructivism.

**Prerequisite:** POL 10004 or POL 10500.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Diversity Global

**POL 30570 PALESTINE AND ISRAEL 3 Credit Hours**

Course introduces students to academic approaches and theories that attempt to understand the situation in historic Palestine. The course is divided into four sections: (1) Theories of settler colonialism and basic differences between Judaism, Zionism and Israeli society, as well as diversity within Palestinian society. (2) Comparative studies of the establishment of the modern state of Israel, which Palestinians view in their collective experience as "the Catastrophe" or al-Nakba. (3) The occupation of East Jerusalem, the West Bank and Gaza, and how that system has changed over time. (4) Pathways forward for Palestinians and Israelis.

**Prerequisite:** Sophomore standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**POL 30810 POLITICS OF THE GLOBAL ECONOMY 3 Credit Hours**

Examines interaction between economics and politics in international relations. Topics include poverty and uneven economic development, political prerequisites for free trade, intra-western and north-south economic conflict and distributive justice.

**Prerequisite:** POL 10004 or POL 10500.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**POL 30820 INTERNATIONAL ORGANIZATION AND LAW 3 Credit Hours**

Course introduces the subject matter in historical and theoretical contexts, then devotes detailed attention to the full range of international organizations that exist today. A final section addresses the role of international law in world politics.

**Prerequisite:** POL 10004 or POL 10500.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**POL 30840 NONGOVERNMENTAL ORGANIZATIONS 3 Credit Hours**

Introduction to the diverse range of nongovernmental organizations that exist today. Course explores the varying roles on nongovernmental organizations in setting agendas, shaping legislation and implementing public policy reforms.

**Prerequisite:** POL 10004 or POL 10300 or POL 10500.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**POL 39592 GENEVA INTERNSHIP (ELR) 3 Credit Hours**

(Repeatable for credit) Students perform intern duties as part of the semester in Geneva.

**Prerequisite:** None.

**Schedule Type:** Practical Experience

**Contact Hours:** 21 other

**Grade Mode:** Standard Letter

**Attributes:** Experiential Learning Requirement

**POL 40091 VARIABLE TOPIC SEMINAR 3 Credit Hours**

(Slashed with POL 50091 and POL 70091) Variable topic seminar in political science.

**Prerequisite:** POL 10004 or POL 10500; and POL 10100 or POL 10300; and POL 30001; and sophomore standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**POL 40112 POLITICS AND THE MASS MEDIA 3 Credit Hours**

Course examines the multiple roles played by the mass media in contemporary politics and analyzes the implications of those roles. Nonmajors should contact the Department of Political Science for a prerequisite override.

**Prerequisite:** POL 10100.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**POL 40116 PUBLIC OPINION AND POLITICAL BEHAVIOR 3 Credit Hours**

Analysis of determinants of public opinion and political behavior. Study of how public makes up its mind and impact of public opinion on government policy.

**Prerequisite:** POL 10100.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**POL 40118 POLITICAL PARTIES AND INTEREST GROUPS 3 Credit Hours**

An examination of the changing roles of political parties and interest groups in the American political system, including a comparison of their respective electoral activities.

**Prerequisite:** POL 10100.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**POL 40168 MOOT COURT I 2 Credit Hours**

Prepares students for oral advocacy in a simulated court room experience known as moot court. Preparation includes learning pre-trial and trial processes, including case evaluation, legal investigation, discovery and motion practice and trial processes.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**POL 40171 MOOT COURT II 1 Credit Hour**

Prepares students to engage in oral advocacy by using a learning experiential exercise, including a regional competition hosted by the American Collegiate Mock Trial Association, known as moot court. Students perform relevant roles (including case evaluation and strategy, legal investigation, discovery and motion practice, and trial preparation) both in the competition and in preparing a hypothetical case for trial.

**Prerequisite:** POL 40168.

**Schedule Type:** Lecture

**Contact Hours:** 1 lecture

**Grade Mode:** Standard Letter

**POL 40182 CONSTITUTIONAL LAW: GOVERNMENTAL STRUCTURES AND FUNCTIONS 3 Credit Hours**

Nature and scope of constitutional government. Study of judicial review, separation of powers, federalism, commerce and taxation.

**Prerequisite:** POL 10100.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**POL 40183 CONSTITUTIONAL LAW: CIVIL RIGHTS AND LIBERTIES (DIVD) 3 Credit Hours**

Nature and scope of constitutional limitations. Study of first amendment, freedom of expression, freedom of religion, criminal rights, due process, equal protection.

**Prerequisite:** POL 10100.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Diversity Domestic

**POL 40191 SEMINAR IN AMERICAN POLITICS (WIC) 3 Credit Hours**

(Repeatable for credit) A required, writing-intensive seminar for juniors and seniors in the American Politics concentration. The focus of the seminar varies depending on content and instructor.

**Prerequisite:** POL 10004 or 10500; and POL 10100 or 10300; and POL 30001 and POL 30002 (or POL 30003); and political science major.

**Schedule Type:** Seminar

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**Attributes:** Writing Intensive Course

**POL 40320 ETHICS AND PUBLIC POLICY 3 Credit Hours**

The ethical obligations of public policy makers are examined in this course, within a series of applied cases. The goal is to empower students with the intellectual tools of critical analysis within diverse policy environments.

**Prerequisite:** POL 10300.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**POL 40391 SEMINAR IN PUBLIC POLICY (WIC) 3 Credit Hours**  
(Repeatable for credit) A required, writing intensive seminar for juniors and seniors in the Public Policy concentration. The focus of the seminar varies depending on content and instructor.

**Prerequisite:** POL 10004 or POL 10500; and POL 10100 or 10300; and POL 30001 and POL 30002 (or POL 30003); and political science major.

**Schedule Type:** Seminar

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**Attributes:** Writing Intensive Course

**POL 40410 REGULATORY POLICY 3 Credit Hours**

Provides an advanced understanding of the nature of government regulation: its definition; the institutions and groups involved in developing it; and current practices. The focus is on analyzing why regulation exists and how regulatory agencies function.

**Prerequisite:** POL 10100 or POL 10300.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**POL 40440 U.S. ENVIRONMENTAL POLITICS AND POLICIES 3 Credit Hours**

Course covers such topics as the history of the U.S. environmental movement; public opinion and environmental issues; environmental racism and classism; and environmental policy making and implementation.

**Prerequisite:** POL 10100 or POL 10300.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**POL 40450 HEALTH CARE AND SOCIAL POLICY 3 Credit Hours**

Addresses health care policy in the United States from both theoretical (political, economic as well as public policy) and substantive perspectives at the state, national and comparative-international levels. Further, the examination of health care policy takes place in the context of social welfare policy more broadly considered.

**Prerequisite:** POL 10100 or POL 10300.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**POL 40470 WOMEN, POLITICS AND POLICY (DIVD) 3 Credit Hours**

Examines origins, development and current record of century-old women's movement unique in U.S. annals; compares it with other contemporary social movements. Examines issues of women and public policy.

**Prerequisite:** POL 10100 or POL 10300.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Diversity Domestic

**POL 40530 POLITICS OF WAR 3 Credit Hours**

Examines central questions concerning the justification, explanation characteristic features and consequences of war. Specific cases are examined such as World War II, the Chinese Revolution, Vietnam's civil war and potential nuclear war.

**Prerequisite:** POL 10004 or POL 10500.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**POL 40540 POLITICS OF DEVELOPMENT (DIVG) 3 Credit Hours**

Examines practice, record and theories of political development for less developed, developing and developed political systems. Includes extensive analysis of issues, problems through case studies.

**Prerequisite:** POL 10004 or POL 10500.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Diversity Global

**POL 40560 HUMAN RIGHTS AND SOCIAL JUSTICE (DIVG) 3 Credit Hours**

Examines the relationship between human rights and problems of the Third World in the civic, political, social and cultural arenas. Particular attention is placed on the struggle of women.

**Prerequisite:** POL 10004 or POL 10500.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Diversity Global

**POL 40591 SEMINAR IN INTERNATIONAL RELATIONS-COMPARATIVE POLITICS (WIC) 3 Credit Hours**

(Repeatable for credit) A required, writing-intensive seminar for juniors or seniors in the International Relations-Comparative Politics concentration. The focus of the seminar varies depending on content and instructor. International Relations majors who have completed POL 10004, POL 10500 and 6 credit hours of courses in the International Relations-Comparative Politics concentration may request a prerequisite override from the Department of Political Science.

**Prerequisite:** POL 10004 or POL 10500; and POL 10100 or POL 10300; and POL 30002 or POL 30003; and political science major.

**Schedule Type:** Seminar

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**Attributes:** Writing Intensive Course

**POL 40620 POLITICS OF SOCIAL MOVEMENTS (DIVD) 3 Credit Hours**

Examines the role of social movements both in the United States and around the world. Focuses on labor, environmental, social justice and other initiatives in the push for political and economic democracy. North-South, public-private, labor-management and regional perspectives are emphasized.

**Prerequisite:** POL 10004 or POL 10100 or POL 10500.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Diversity Domestic

**POL 40840 COMPARATIVE FOREIGN POLICY 3 Credit Hours**

Comparative analysis of foreign policy patterns and determinants on the basis of the examination of foreign policy of selected countries.

**Prerequisite:** POL 10004 or POL 10300 or POL 10500.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**POL 40930 U.S. FOREIGN POLICY 3 Credit Hours**

Examines policy objectives, patterns of decision-making and foreign policy actions, roles of interest groups, public opinion, congress, executive and external influences on policy.

**Prerequisite:** POL 10004 or POL 10100 or POL 10500.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**POL 40980 COLUMBUS PROGRAM IN STATE ISSUES (ELR) 15 Credit Hours**

(Repeatable for credit) Annual fall semester resident-study in Columbus. Students spend three days per week working at an internship and two days per week attending briefings and completing course studies.

**Prerequisite:** Minimum 2.500 overall GPA; and special approval.

**Schedule Type:** Lecture, Practical Experience, Seminar

**Contact Hours:** 7 lecture, 24 other

**Grade Mode:** Standard Letter

**Attributes:** Experiential Learning Requirement

**POL 40981 WASHINGTON PROGRAM IN NATIONAL ISSUES (ELR) 15 Credit Hours**

(Repeatable for credit) Annual spring semester resident-study in Washington, D.C. Credit hours divided among three units: lecture and course work, on-site briefings seminar and internship.

**Prerequisite:** Minimum 2.750 overall GPA; and junior standing; and special approval.

**Schedule Type:** Lecture, Practical Experience, Seminar

**Contact Hours:** 7 lecture, 24 other

**Grade Mode:** Standard Letter

**Attributes:** Experiential Learning Requirement

**POL 40992 INTERNSHIP (ELR) 1-3 Credit Hours**

(Repeatable for maximum 6 credit hours) Allows academic credit for approved participation in variety of political processes, or as an intern with governmental or private agencies dealing with public affairs.

**Prerequisite:** Minimum 2.000 overall GPA; and special approval.

**Schedule Type:** Field Experience

**Contact Hours:** 3-9 other

**Grade Mode:** Satisfactory/Unsatisfactory

**Attributes:** Experiential Learning Requirement

**POL 40993 VARIABLE TITLE WORKSHOP IN POLITICAL SCIENCE 1-6 Credit Hours**

(Repeatable for credit) Workshop topic varies per course offering.

**Prerequisite:** None.

**Schedule Type:** Workshop

**Contact Hours:** 1-6 other

**Grade Mode:** Satisfactory/Unsatisfactory

**POL 40995 SELECTED TOPICS IN POLITICAL SCIENCE 1-3 Credit Hours**

(Repeatable for credit) Special course, not regularly offered. Subject varies depending on the emerging issue, staff availability and competencies.

**Prerequisite:** Junior or senior standing.

**Schedule Type:** Lecture

**Contact Hours:** 1-3 lecture

**Grade Mode:** Standard Letter

**POL 40996 INDEPENDENT STUDY 1-3 Credit Hours**

(Repeatable for credit) For students desiring research into subjects beyond level of completed course work, or on subjects for which no regular course is offered.

**Prerequisite:** Any two of the following courses: POL 10004, POL 10100, POL 10300, and POL 10500; minimum 2.750 overall GPA; and junior standing; and special approval.

**Schedule Type:** Individual Investigation

**Contact Hours:** 1-3 other

**Grade Mode:** Standard Letter-IP

**POL 50091 VARIABLE TOPIC SEMINAR 3 Credit Hours**

(Slashed with POL 40091 and POL 70091) Variable topic seminar in political science.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**POL 51191 SEMINAR: PROBLEMS IN AMERICAN GOVERNMENT 3 Credit Hours**

(Repeatable for credit) For graduate students outside of political science who wish to take an undergraduate American government course for graduate credit. Students must meet all of the requirements of the 40000-level course and complete additional work as agreed upon by the instructor. May be taken more than once but never for more than 3 credit hours in any one semester. Instructor and course content may vary from semester to semester.

**Prerequisite:** Graduate standing.

**Schedule Type:** Seminar

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter-IP

**POL 51391 SEMINAR: PROBLEMS IN PUBLIC POLICY 3 Credit Hours**

(Repeatable for credit) For graduate students outside of political science who wish to take an undergraduate public policy course for graduate credit. Students must meet all of the requirements of the 40000-level course and complete additional work as agreed upon by the instructor. May be taken more than once but never for more than 3 credit hours in any one semester. Instructor and course content may vary from semester to semester.

**Prerequisite:** Graduate standing.

**Schedule Type:** Seminar

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter-IP

**POL 51591 SEMINAR: PROBLEMS IN INTERNATIONAL RELATIONS/ COMPARATIVE GOVERNMENT 3 Credit Hours**

(Repeatable for credit) For graduate students outside of political science who wish to take an undergraduate international/comparative government course for graduate credit. Students must meet all of the requirements of the 40000-level course and complete additional work as agreed upon by the instructor. May be taken more than once but never for more than 3 credit hours in any one semester. Instructor and course content may vary from semester to semester.

**Prerequisite:** Graduate standing.

**Schedule Type:** Seminar

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter-IP

**POL 60002 SCOPE AND EPISTEMOLOGY 3 Credit Hours**

(Slashed with POL 70002) Introduces students to the philosophy of science and scientific inquiry within the context of the social sciences. Course presents a broad survey of leading paradigms and debates within political science.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**POL 60003 QUANTITATIVE METHODS I 3 Credit Hours**

(Slashed with POL 70003) Provides a selective introduction to basic quantitative methods for the analysis of political and public policy data dealing with basic descriptive and inferential statistics.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**POL 60004 QUANTITATIVE METHODS II 3 Credit Hours**

(Slashed with POL 70004) Introduces students to multivariate quantitative techniques appropriate for the analysis of political and public policy data.

**Prerequisite:** POL 60003; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**POL 60010 QUALITATIVE RESEARCH METHODS 3 Credit Hours**

(Slashed with POL 70010) Introduces the principles and methods of qualitative research, examining the place of qualitative research alongside discussions about positivist, interpretivist and critical approaches. A variety of qualitative research methods are introduced including social observation and ethnography, interviewing, discourse analysis, oral history, document analysis, historical analysis and case studies.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**POL 60099 CAPSTONE SEMINAR 3 Credit Hours**

Directed research to use completed coursework to identify ways in which scholarship speaks to application, e.g., in the non-profit, policy, consulting or programming world.

**Prerequisite:** Graduate standing.

**Schedule Type:** Master's Project, Research

**Contact Hours:** 3 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**POL 60101 STATUS OF THE FIELD: AMERICAN POLITICS AND POLICY 3 Credit Hours**

(Slashed with POL 70101) Course provides a broad survey of the policy-making process in the U.S. government. Coverage includes formal government structures, as well as more informal networks of private groups that seek to influence public policy at the national level.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**POL 60102 AMERICAN POLICY PROCESS 3 Credit Hours**

(Slashed with POL 70102) Course emphasizes the politics of the policy process. Among topics covered are theories of policy formulation implementation and evaluation.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**POL 60103 CONGRESS, THE PRESIDENCY AND THE COURTS 3 Credit Hours**

(Slashed with POL 70103) Focuses on the three branches of the U.S. government, specifically Congress, the presidency and the judiciary. Coverage includes institutional rules and procedures that shape the incentives of these political actors and ultimately policy outcomes.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**POL 60105 FEDERALISM AND STATE POLICYMAKING 3 Credit Hours**

(Slashed with POL 70105) Course covers the theory and practice of federalism, with emphasis on its consequences for policy outcomes. Students also examine the transformation of the policy role of state governments in recent years.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**POL 60106 URBAN POLICY AND POLITICS 3 Credit Hours**

(Slashed with POL 70106) Urban public policy takes place within the context of suburbanization and metropolitan sprawl. Issues raised in this course include poverty, race and the role of business in local policymaking.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**POL 60108 AMERICAN POLITICAL BEHAVIOR 3 Credit Hours**

(Slashed with POL 70108) Explores scholarship on the behavior of non-elite political actors, including various forms of electoral participation, voting, psychological attachment, affect, cognition, perception, attitude and belief. Additional topics include ethnic, racial and gender politics; political participation; voting choice; political psychology; politics and networks; macro politics; and connecting individual-level and macro-level findings with democratic outcomes and citizen capacity.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**POL 60191 SEMINAR IN AMERICAN POLITICS AND POLICY 3 Credit Hours**

(Repeatable for credit)(Slashed with POL 70191) Seminar on current and important topics in American politics and policy. Subject matter varies depending on the emerging issue. Course may be repeated for credit toward a degree with departmental approval.

**Prerequisite:** Graduate standing.

**Schedule Type:** Seminar

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter



**POL 60304 ANALYTIC TECHNIQUES OF POLICY-MAKING 3 Credit Hours**

(Slashed with POL 70304) Course covers the concepts, techniques and conventions for assessing economic efficiency when this is one of the social and political goals relevant to public policymakers. Students are introduced to theories of cost-benefit analysis as they pertain to public policy.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**POL 60501 STATUS OF THE FIELD: TRANSNATIONAL AND COMPARATIVE POLITICS AND POLICY 3 Credit Hours**

(Slashed with POL 70501) Course introduces students to the primary concepts, theories and subfields of comparative and transnational politics. Each field of study is reviewed along with the primary subfields of analysis.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**POL 60502 GLOBAL GOVERNANCE 3 Credit Hours**

(Slashed with POL 70502) Course examines issues, problems and debates regarding global governance in the contemporary world. Of primary interest is the array of actors in this process, including nation-states, intergovernmental organizations and nongovernmental organizations.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**POL 60503 FOREIGN POLICY ANALYSIS 3 Credit Hours**

(Slashed with POL 70503) Course provides an overview of the diverse analytic traditions and issues that relate to the study of foreign policy. Areas of coverage include theories of foreign policy decision-making, levels of analysis and policy domains.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**POL 60507 CONFLICT TRANSFORMATION AND RECONCILIATION 3 Credit Hours**

(Slashed with POL 70507) Cross-cultural analysis of transition, from mass violence to justice and from protracted conflict to democracy. Subjects of study include truth and reconciliation commissions, criminal tribunal's apologies reparations and other aids to conflict transformation.

**Prerequisite:** POL 60501; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**POL 60510 POLITICS OF DEVELOPMENT 3 Credit Hours**

(Slashed with POL 70510) Course surveys the scholarship on political development, examining the ways in which the conceptualization of development has evolved over time, looking specifically at institutionalization, state failure and the role of civil society.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**POL 60511 INTERNATIONAL POLITICAL ECONOMY 3 Credit Hours**

(Slashed with POL 70511) Introduces students to the study of how politics and economics interact on a global scale, covering the major theories of the international political economy, the international monetary system, global trade, and the connections between international economics and domestic development.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**POL 60591 SEMINAR IN TRANSNATIONAL AND COMPARATIVE POLITICS AND POLICY 3 Credit Hours**

(Repeatable for credit)(Slashed with POL 70591) Seminar on current and important topics in transnational and comparative politics and policy. Subject matter varies depending on the emerging issue.

**Prerequisite:** Graduate standing.

**Schedule Type:** Seminar

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**POL 60901 PROSEMINAR IN CONFLICT ANALYSIS AND MANAGEMENT 3 Credit Hours**

(Slashed with POL 70901) Covers the historical development of the conflict analysis and management field; conflict theories; the dynamics by which conflicts escalate, stalemate and de-escalate; and theories of conflict intervention, resolution and transformation.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**POL 60902 POWER, CONFLICT AND THE POLITICS OF GENDER 3 Credit Hours**

(Slashed with POL 70902) Examines power disparities and gender as sources of conflict in multiple arenas—including family, community, workplace and the political sphere. The intersections of gender and power in the generation and resolution of social conflicts are examined. Emphasis is placed on empowerment strategies and tactics used to transform gendered conflicts and redress power imbalances.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**POL 60903 IDENTITY DRIVEN CONFLICTS 3 Credit Hours**

(Slashed with POL 70903) Explores the roles played by ethnicity, race, religion, culture and other elements of identity in the generation, resolution and conduct of conflicts within and between groups. Physical and symbolic markers of difference are examined in order to understand both why groups differentiate themselves from one another and how mechanisms such as skin color, religious affiliation, ethnic background or cultural traditions can provide the impetus for conflict or the grounds for resolution.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**POL 60904 SOCIAL MOVEMENTS AND NONVIOLENT CONFLICTS 3 Credit Hours**

(Slashed with POL 70904) The waging and escalating of conflicts by social movements through nonviolent actions frequently shifts conflicts from one stage to another while also contributing to conflict transformation and to substantive social and political changes. Course focuses on social movement theories and practices, and on the complicated dynamics of nonviolent action campaigns waged by social movements.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**POL 60906 POLITICAL VIOLENCE 3 Credit Hours**

(Slashed with POL 70906) Examines the dynamics, networks, interests and resource mobilization underlying state-sponsored political violence, focusing on "low-intensity conflict" and counter-insurgency, paramilitarism and genocide. Of special interest is the relationship of the state to various non-state actors, both perpetrators and victims, and the role of the international community in domestic-level violence.

**Prerequisite:** POL 60501 or POL 60901; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**POL 60907 TERRORISM AND HUMAN RIGHTS 3 Credit Hours**

(Slashed with POL 70907) Examines how governments try to adhere to the rule of law in managing terrorist threats in a post 9-11 era, striking a balance between the competing demands of public safety, personal freedom and human rights. Topics include understanding terrorism as a problem for western governments, the rule of law and human rights.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**POL 60991 SEMINAR IN CONFLICT ANALYSIS AND MANAGEMENT 3 Credit Hours**

(Repeatable for maximum 9 credit hours)(Slashed with POL 70991) Seminar on current and important topics in conflict analysis and management. Course may be repeated for credit toward a degree with departmental approval.

**Prerequisite:** Graduate standing.

**Schedule Type:** Seminar

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**POL 61094 COLLEGE TEACHING IN POLITICAL SCIENCE 1 Credit Hour**

(Repeatable for credit)(Slashed with POL 71094) Staff training and experience in college teaching; colloquia on professional ethics and responsibilities of political scientists. Maximum 4 credit hours applicable toward a degree with graduate studies committee approval.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 1 lecture

**Grade Mode:** Standard Letter

**POL 61098 RESEARCH 1-15 Credit Hours**

(Repeatable for credit) Research or individual investigation. Credit hours may be applied toward meeting degree requirements with department approval and when a letter grade is given.

**Prerequisite:** Graduate standing.

**Schedule Type:** Research

**Contact Hours:** 1-15 other

**Grade Mode:** Standard Letter-IP

**POL 61199 THESIS I 2-6 Credit Hours**

Thesis students must register for a total of 6 hours, 2 to 6 hours in a single semester distributed over several semesters if desired.

**Prerequisite:** Graduate standing.

**Schedule Type:** Masters Thesis

**Contact Hours:** 2-6 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**POL 61299 THESIS II 2 Credit Hours**

Thesis students must continue registration each semester until all degree requirements are met.

**Prerequisite:** POL 61199; and graduate standing.

**Schedule Type:** Masters Thesis

**Contact Hours:** 2 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**POL 69091 SEMINAR IN QUANTITATIVE METHODS 3 Credit Hours**

(Repeatable for maximum 9 credit hours)(Slashed with POL 79091)

Focuses on select topics in quantitative methods, including limited and categorical dependent variables, hierarchical linear models, panel data, structural equation modeling and Q Methodology. More than one seminar may be offered.

**Prerequisite:** POL 60004; and graduate standing.

**Schedule Type:** Seminar

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**POL 69095 SPECIAL TOPICS IN POLITICAL SCIENCE AND PUBLIC POLICY 3 Credit Hours**

(Repeatable for a maximum of 12 credit hours)(Slashed with POL 79095) Topic varies per course offering.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**POL 70002 SCOPE AND EPISTEMOLOGY 3 Credit Hours**

(Slashed with POL 60002) Introduces students to the philosophy of science and scientific inquiry within the context of the social sciences. Course presents a broad survey of leading paradigms and debates within political science.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**POL 70003 QUANTITATIVE METHODS I 3 Credit Hours**

(Slashed with POL 60003) Provides a selective introduction to basic quantitative methods for the analysis of political and public policy data dealing with basic descriptive and inferential statistics.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**POL 70004 QUANTITATIVE METHODS II 3 Credit Hours**

(Slashed with POL 60004) Introduces students to multivariate quantitative techniques appropriate for the analysis of political and public policy data.

**Prerequisite:** POL 70003; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**POL 70010 QUALITATIVE RESEARCH METHODS 3 Credit Hours**

(Slashed with POL 60010) Introduces the principles and methods of qualitative research, examining the place of qualitative research alongside discussions about positivist, interpretivist and critical approaches. A variety of qualitative research methods are introduced including social observation and ethnography, interviewing, discourse analysis, oral history, document analysis, historical analysis and case studies.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**POL 70091 VARIABLE TOPIC SEMINAR 3 Credit Hours**

(Slashed with POL 40091 and 50091) Variable topic seminar in political science.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**POL 70101 STATUS OF THE FIELD: AMERICAN POLITICS AND POLICY 3 Credit Hours**

(Slashed with POL 60101) Course provides a broad survey of the policy-making process in the U.S. government. Coverage includes formal government structures, as well as more informal networks of private groups that seek to influence public policy at the national level.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**POL 70102 AMERICAN POLICY PROCESS 3 Credit Hours**

(Slashed with POL 60102) Course emphasizes the politics of the policy process. Among topics covered are theories of policy formulation implementation and evaluation.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**POL 70103 CONGRESS, THE PRESIDENCY AND THE COURTS 3 Credit Hours**

(Slashed with POL 60103) Focuses on the three branches of the U.S. government, specifically Congress, the presidency and the judiciary. Coverage includes institutional rules and procedures that shape the incentives of these political actors and ultimately policy outcomes.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**POL 70105 FEDERALISM AND STATE POLICYMAKING 3 Credit Hours**

(Slashed with POL 60105) Course covers the theory and practice of federalism, with emphasis on its consequences for policy outcomes. Students also examine the transformation of the policy role of state governments in recent years.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**POL 70106 URBAN POLICY AND POLITICS 3 Credit Hours**

(Slashed with POL 60106) Urban public policy takes place within the context of suburbanization and metropolitan sprawl. Issues raised in this course include poverty, race and the role of business in local policymaking.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**POL 70108 AMERICAN POLITICAL BEHAVIOR 3 Credit Hours**

(Slashed with POL 60108) Explores scholarship on the behavior of non-elite political actors, including various forms of electoral participation, voting, psychological attachment, affect, cognition, perception, attitude and belief. Additional topics include ethnic, racial and gender politics; political participation; voting choice; political psychology; politics and networks; macro politics; and connecting individual-level and macro-level findings with democratic outcomes and citizen capacity.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**POL 70191 SEMINAR IN AMERICAN POLITICS AND POLICY 3 Credit Hours**

(Repeatable for credit) (Slashed with POL 60191) Seminar on current and important topics in American politics and policy. Subject matter varies depending on the emerging issue. This course may be repeated for credit with departmental approval.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Seminar

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**POL 70195 SPECIAL TOPICS IN PUBLIC ADMINISTRATION 3 Credit Hours**

(Repeatable for maximum 12 credit hours)(Slashed with PADM 60195) Topic varies per course offerings.

**Prerequisite:** Doctoral standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**POL 70198 RESEARCH IN PUBLIC ADMINISTRATION 1-3 Credit Hours**

(Repeatable for credit) Research or individual investigation. Credits earned may be applied toward a degree with department approval.

**Prerequisite:** Political science major; and doctoral standing; and special approval.

**Schedule Type:** Research

**Contact Hours:** 1-3 other

**Grade Mode:** Standard Letter-IP

**POL 70304 ANALYTIC TECHNIQUES OF POLICY-MAKING 3 Credit Hours**

(Slashed with POL 60304) Course covers the concepts, techniques and conventions for assessing economic efficiency when this is one of the social and political goals relevant to public policymakers. Students are introduced to theories of cost-benefit analysis as they pertain to public policy.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**POL 70371 GRADUATE INTRODUCTION TO PUBLIC ADMINISTRATION 3 Credit Hours**

(Slashed with PADM 60371) Introductory course to the theory and study of public administration. Topics include evolution and characteristics of the modern nation state; core functions of public bureaucracy in any nation state; intergovernmental relations; formal and informal institutions and their role in policy; legal-regulatory processes; historical evolution of public administration as an academic field; and major paradigms in organization theory and internal organizational dynamics.

**Prerequisite:** Political science major; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**POL 70377 PUBLIC BUDGETING AND FINANCIAL MANAGEMENT 3 Credit Hours**

(Slashed with PADM 60377) Focuses on two aspects of public financial analysis: budgeting and financial management. The topics in budgeting are the basic purposes of budgets as mechanisms of resource control and allocation, and as legal documents; distinct budget formats and cross-walking of formats; budget preparation; legislative review; implementation and auditing. The topics in financial management are the mechanisms and tools for financing public operations, debt management, fund accounting, analyzing budgets and forecasting.

**Prerequisite:** Political Science major; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**POL 70379 PROGRAM EVALUATION I 3 Credit Hours**

(Slashed with PADM 60379) Introduction to evaluation of government programs. Emphasis on familiarizing students with the theory and specifically the techniques utilized under different evaluation formats.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**POL 70386 PUBLIC SECTOR INFORMATION TECHNOLOGY MANAGEMENT 3 Credit Hours**

(Slashed with PADM 60386) Management of information technology systems in the public sector. Specific focus on: planning and acquisition of hardware and software and networking technologies, organizational governance and implementation, information security and privacy, legal requirements, IT service delivery and emerging enterprise technologies.

**Prerequisite:** Political Science major; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**POL 70387 ELECTRONIC GOVERNANCE 3 Credit Hours**

(Slashed with PADM 60387) An introduction to electronic governance with an emphasis on public administration. Examines the implications of information and communication technology in public organizations with regard to democracy, civic engagement and performance improvement. Through case studies from the United States and across the world, students become familiar with the factors and issues surrounding the implementation of electronic governance on a comparative basis.

**Prerequisite:** Political Science major; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**POL 70392 INTERNSHIP IN PUBLIC ADMINISTRATION 3 Credit Hours**

(Repeatable for credit maximum three times) Provides an opportunity for students to gain practical experience and be exposed to processes of public decision making and policy development.

**Prerequisite:** Political Science major; and doctoral standing; and special approval.

**Schedule Type:** Practical Experience

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter-IP

**POL 70470 PERSONAL ACCOUNTABILITY IN THE PUBLIC SERVICE 3 Credit Hours**

(Slashed with PADM 60470) Focus is on students internalizing their role in the public service as stewards of the public trust. Topics covered include dimensions of stewardship: maintaining personal honor, protecting the liberty and dignity of the citizen, dimensions of justice, anti-corruption, incorporating principles of stewardship in their personal decision making and throughout the organization.

**Prerequisite:** Political Science major; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**POL 70471 NONPROFIT LAW 3 Credit Hours**

(Slashed with PADM 60471) Introduction to legal issues for nonprofit organizations in the United States, including types of IRS tax-exempt status, basic requirements for establishing and operating nonprofit organizations specifically in Ohio.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**POL 70472 NONPROFIT BOARD-EXECUTIVE RELATIONS 3 Credit Hours**

(Slashed with PADM 60472) Key aspects of effective nonprofit governance, major roles of nonprofit board members and their responsibilities and governance structures.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**POL 70475 CAPSTONE SEMINAR 3 Credit Hours**

(Repeatable for credit)(Slashed with PADM 60475) Students complete an approved, written project that is analytical and research-based.

**Prerequisite:** Political Science major; and doctoral standing; and special approval.

**Schedule Type:** Seminar

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter-IP

**POL 70477 NONPROFIT FINANCIAL RESOURCE DEVELOPMENT 3 Credit Hours**

(Slashed with PADM 60477) Successful strategies for fundraising and resource development for nonprofit organizations. Students are exposed to fundraising in practice and write a resource development plan.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**POL 70501 STATUS OF THE FIELD: TRANSNATIONAL AND COMPARATIVE POLITICS AND POLICY 3 Credit Hours**

(Slashed with POL 60501) Course introduces students to the primary concepts, theories and subfields of comparative and transnational politics. Each field of study is reviewed along with the primary subfields of analysis.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**POL 70502 GLOBAL GOVERNANCE 3 Credit Hours**

(Slashed with POL 60502) Course examines issues, problems and debates regarding global governance in the contemporary world. Of primary interest is the array of actors in this process, including nation-states, intergovernmental organizations and nongovernmental organizations.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**POL 70503 FOREIGN POLICY ANALYSIS 3 Credit Hours**

(Slashed with POL 60503) Course provides an overview of the diverse analytic traditions and issues that relate to the study of foreign policy. Areas of coverage include theories of foreign policy decision-making, levels of analysis and policy domains.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**POL 70507 CONFLICT TRANSFORMATION AND RECONCILIATION 3 Credit Hours**

(Slashed with POL 60507) Cross-cultural analysis of transition, from mass violence to justice and from protracted conflict to democracy. Subjects of study include truth and reconciliation commissions, criminal tribunal's apologies reparations and other aids to conflict transformation.

**Prerequisite:** POL 70501; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**POL 70510 POLITICS OF DEVELOPMENT 3 Credit Hours**

(Slashed with POL 60510) Course surveys the scholarship on political development, examining the ways in which the conceptualization of development has evolved over time, looking specifically at institutionalization, state failure and the role of civil society.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**POL 70511 INTERNATIONAL POLITICAL ECONOMY 3 Credit Hours**

(Slashed with POL 60511) Introduces students to the study of how politics and economics interact on a global scale, covering the major theories of the international political economy, the international monetary system, global trade, and the connections between international economics and domestic development.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**POL 70574 STRATEGIC PLANNING 3 Credit Hours**

(Slashed with PADM 60574) Introduction to the practice of strategic planning as it relates to policy design and implementation by public and nonprofit organizations.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**POL 70591 SEMINAR IN TRANSNATIONAL AND COMPARATIVE POLITICS AND POLICY 3 Credit Hours**

(Slashed with POL 60591) (Repeatable for credit) Seminar on current and important topics in transnational and comparative politics and policy. Subject matter varies depending on the emerging issue. This course may be repeated for credit with departmental approval.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Seminar

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**POL 70901 PROSEMINAR IN CONFLICT ANALYSIS AND MANAGEMENT 3 Credit Hours**

(Slashed with POL 60901) Covers the historical development of the conflict analysis and management field; conflict theories; the dynamics by which conflicts escalate, stalemate and de-escalate; and theories of conflict intervention, resolution and transformation.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**POL 70902 POWER, CONFLICT AND THE POLITICS OF GENDER 3 Credit Hours**

(Slashed with POL 60902) Examines power disparities and gender as sources of conflict in multiple arenas—including family, community, workplace and the political sphere. The intersections of gender and power in the generation and resolution of social conflicts are examined. Emphasis is placed on empowerment strategies and tactics used to transform gendered conflicts and redress power imbalances.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter



**POL 70903 IDENTITY DRIVEN CONFLICTS 3 Credit Hours**

(Slashed with POL 60903) Explores the roles played by ethnicity, race, religion, culture and other elements of identity in the generation, resolution and conduct of conflicts within and between groups. Physical and symbolic markers of difference are examined in order to understand both why groups differentiate themselves from one another and how mechanisms such as skin color, religious affiliation, ethnic background or cultural traditions can provide the impetus for conflict or the grounds for resolution.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**POL 70904 SOCIAL MOVEMENTS AND NONVIOLENT CONFLICTS 3 Credit Hours**

(Slashed with POL 60904) The waging and escalating of conflicts by social movements through nonviolent actions frequently shifts conflicts from one stage to another while also contributing to conflict transformation and to substantive social and political changes. Course focuses on social movement theories and practices, and on the complicated dynamics of nonviolent action campaigns waged by social movements.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**POL 70906 POLITICAL VIOLENCE 3 Credit Hours**

(Slashed with POL 60906) Examines the dynamics, networks, interests and resource mobilization underlying state-sponsored political violence, focusing on "low-intensity conflict" and counter-insurgency, paramilitarism and genocide. Of special interest is the relationship of the state to various non-state actors, both perpetrators and victims, and the role of the international community in domestic-level violence.

**Prerequisite:** POL 70501 or POL 70901; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**POL 70907 TERRORISM AND HUMAN RIGHTS 3 Credit Hours**

(Slashed with POL 60907) Examines how governments try to adhere to the rule of law in managing terrorist threats in a post 9-11 era, thus striking a balance between the competing demands of public safety, personal freedom, and human rights. Topics include understanding terrorism as a problem for western governments, the rule of law, and human rights.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**POL 70991 SEMINAR IN CONFLICT ANALYSIS AND MANAGEMENT 3 Credit Hours**

Repeatable for maximum 9 credit hours)(Slashed with POL 60991) Seminar on current and important topics in conflict analysis and management. Course may be repeated for credit toward a degree with departmental approval.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Seminar

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**POL 71094 COLLEGE TEACHING IN POLITICAL SCIENCE 1 Credit Hour**

(Repeatable for credit)(Slashed with POL 61094) Staff training and experience in college teaching; colloquia on professional ethics and responsibilities of political scientists. Maximum 4 credit hours applicable toward a degree with graduate studies committee approval.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 1 lecture

**Grade Mode:** Standard Letter

**POL 79091 SEMINAR IN QUANTITATIVE METHODS 3 Credit Hours**

(Repeatable for maximum 9 credit hours)(Slashed with POL 69091) Focuses on select topics in quantitative methods, including limited and categorical dependent variables, hierarchical linear models, panel data, structural equation modeling and Q Methodology. More than one seminar may be offered.

**Prerequisite:** POL 70004; and doctoral standing.

**Schedule Type:** Seminar

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**POL 79095 SPECIAL TOPICS IN POLITICAL SCIENCE AND PUBLIC POLICY 3 Credit Hours**

(Repeatable for a maximum of 12 credit hours)(Slashed with POL 69095) Topic varies per course offering.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**POL 81098 RESEARCH 1-15 Credit Hours**

(Repeatable for credit) Research or individual investigation for doctoral students who have not yet passed their candidacy examination. Credits may be applied toward degree if department approves and when letter grade is given.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Research

**Contact Hours:** 1-15 other

**Grade Mode:** Standard Letter-IP

**POL 81199 DISSERTATION I 15 Credit Hours**

(Repeatable for credit) Doctoral dissertation, for which registration in at least two semesters is required, and the first of which will be semester in which dissertation work is begun and continuing until the completion of 30 hours.

**Prerequisite:** Doctoral standing; and special approval.

**Schedule Type:** Dissertation

**Contact Hours:** 15 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**POL 81299 DISSERTATION II 15 Credit Hours**

(Repeatable for credit) Continuing registration required for doctoral students who have completed the initial 30 hours of dissertation and continuing until all degree requirements are met.

**Prerequisite:** POL 81199; and doctoral standing.

**Schedule Type:** Dissertation

**Contact Hours:** 15 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

## Preclinical Sciences (PCS)

### PCS 80112 CELL AND TISSUE 5 Credit Hours

Histology is the study of the microscopic organization of the human body. Reciprocal relationships between normal structural features and their functions are emphasized. Macromolecules, organelles, cells, fundamental body tissues and organs are compared and contrasted. Light microscopic preparations are examined in laboratories, which are closely correlated with lecture topics.

**Prerequisite:** Student must be enrolled in the podiatric medicine program.

**Schedule Type:** Laboratory, Lecture

**Contact Hours:** 3 lecture, 1 lab, 1 other

**Grade Mode:** Standard Letter

### PCS 80113 STAYING ALIVE 5 Credit Hours

The study of the physical and chemical properties of the major constituents of cells and body fluids. This includes structures, functions and biochemical mechanisms involved in the biosynthesis, utilization and degradation of amino acids, carbohydrates, lipids, proteins and nucleic acids. Also included are enzyme kinetics, bioenergetics, cellular communication, nutrition and biochemistry of specialized tissues and fluids.

**Prerequisite:** Student must be enrolled in the podiatric medicine program.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture, .5 lab, 1.5 other

**Grade Mode:** Standard Letter

### PCS 80118 MEDICAL GENETICS 2 Credit Hours

This course provides basic principles of human genetics dealing with genetic variations and anomalies that impact medical practice. Molecular genetics, cytogenetics, genomics, and population genetics will be reviewed.

**Prerequisite:** Student must be enrolled in the podiatric medicine program.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

### PCS 80119 HUMAN ANATOMY AND EMBRYOLOGY 8 Credit Hours

The human upper limb, head and neck, thoracic, abdominal and pelvic anatomy is explored through lecture, audiovisual aids and cadaver dissection. The material is presented in a regional approach, with emphasis on structural and functional relationships, and is correlated with cadaver dissection. In addition, early events in human embryology are presented and discussed followed by coverage of regional and system-based events during embryological and fetal development. Anatomical and embryological topics are correlated throughout the course.

**Prerequisite:** Student must be enrolled in the podiatric medicine program.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 6 lecture, 4 lab

**Grade Mode:** Standard Letter

### PCS 80121 NEUROMUSCULAR SYSTEMS 5 Credit Hours

Neuromuscular Systems covers the microanatomy, structures, pathways, connections, biochemistry and physiology of the nervous and muscular (both skeletal and smooth) systems. Students must be first year podiatric students taking Spring semester courses. Students must be first year podiatric students taking Spring semester courses.

**Prerequisite:** Student must be enrolled in the podiatric medicine program.

**Schedule Type:** Lecture

**Contact Hours:** 5 lecture

**Grade Mode:** Standard Letter

### PCS 80122 CARDIOVASCULAR SYSTEM 3 Credit Hours

Cardiovascular System covers the microanatomy, structures, biochemistry and physiology of the heart, blood vascular and lymphatic systems. Students must be first year podiatric students taking Spring semester courses.

**Prerequisite:** Student must be enrolled in the Podiatric Medicine program.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

### PCS 80123 RENAL AND RESPIRATORY SYSTEMS 3 Credit Hours

Renal and Respiratory Systems covers the microanatomy, structures, pathways, connections, biochemistry and physiology of the renal and respiratory systems. Students must be first year podiatric students taking Spring semester courses. Pre/corequisites: None Corequisites: None

**Prerequisite:** Student must be enrolled in the Podiatric Medicine program.

**Schedule Type:** Lecture

**Contact Hours:** 45 lecture, 0 lab, 0 other

**Grade Mode:** Standard Letter

### PCS 80124 LOWER EXTREMITY ANATOMY 8 Credit Hours

Lower extremity anatomy presents the detailed macroscopic anatomy of the lower limb. The course is augmented with radiographs, MRI, surface anatomy and cross sectional studies. The course includes an introduction to basic concepts of podiatric medicine, surgery and biomechanics. Laboratory instruction includes a detailed dissection of the lower limb, supplemented with computerized educational materials and study of natural bone specimens.

**Prerequisite:** Student must be enrolled in the podiatric medicine program.

**Schedule Type:** Laboratory, Lecture

**Contact Hours:** 4 lecture, 4 lab

**Grade Mode:** Standard Letter

### PCS 80128 MEDICAL MICROBIO/IMMUNOLOGY 6 Credit Hours

This course will introduce the student to the basic concepts, characteristics and techniques used in the study of the clinically significant microbic groups: viruses, bacteria, fungi, and protozoa. The structure, metabolism, genetics, control and laboratory techniques of each microbic group will be described. The roles and outcomes of these organisms in producing manifestations of human infection and disease will be investigated. This course will also introduce the student to the molecular, cellular and organismal mechanisms responsible for the human immune response system. Laboratory will provide hands on experience in staining, cultivation, identification, sensitivity testing, and immunologic techniques.

**Prerequisite:** Student must be enrolled in the podiatric medicine program.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 5 lecture, 1 lab

**Grade Mode:** Standard Letter

### PCS 80218 HUMAN SYSTEMS PATHOLOGY I 8 Credit Hours

The study of disease with emphasis on epidemiology, pathogenesis, natural history, morphologic appearance and relationship to clinical manifestation. Emphasis is placed on basic cellular pathologic processes (injury, inflammation and repair, neoplasia), and description of diseases organized by organ system. An introduction to the concepts of clinical decision making through the use of case studies and current clinical literature will be emphasized.

**Prerequisite:** Student must be enrolled in the podiatric medicine program.

**Schedule Type:** Lecture

**Contact Hours:** 8 lecture

**Grade Mode:** Standard Letter

**PCS 80219 PHARMACOLOGY AND THERAPEUTICS I 4 Credit Hours**

Historically, the clinician was responsible for information about the sources, physical and chemical properties, compounding and dispensing of drugs. Today the practitioner's responsibility requires the rational clinical use of therapeutic agents for the prevention, diagnosis, and treatment of disease based on an understanding of pharmacological principles. This course is designed to prepare practitioners to prescribe for maximum benefit and to recognize the clinical ramifications of concomitant drug therapy.

**Prerequisite:** Student must be enrolled in the podiatric medicine program.

**Schedule Type:** Lecture

**Contact Hours:** 4 lecture

**Grade Mode:** Standard Letter

**PCS 80228 HUMAN SYSTEMS PATHOLOGY II 8 Credit Hours**

The study of disease with emphasis on epidemiology, pathogenesis, natural history, morphologic appearance and relationship to clinical manifestation. Emphasis is placed on basic cellular pathologic processes (injury, inflammation and repair, neoplasia), and description of diseases organized by organ system. An introduction to the concepts of clinical decision making through the use of case studies and current clinical literature will be emphasized.

**Prerequisite:** Student must be enrolled in the podiatric medicine program.

**Schedule Type:** Lecture

**Contact Hours:** 8 lecture

**Grade Mode:** Standard Letter

**PCS 80229 PHARMACOLOGY AND THERAPEUTICS II 4 Credit Hours**

Historically, the clinician was responsible for information about the sources, physical and chemical properties, compounding and dispensing of drugs. Today the practitioner's responsibility requires the rational clinical use of therapeutic agents for the prevention, diagnosis, and treatment of disease based on an understanding of pharmacological principles. This course is designed to prepare practitioners to prescribe for maximum benefit and to recognize the clinical ramifications of concomitant drug therapy.

**Prerequisite:** Student must be enrolled in the podiatric medicine program.

**Schedule Type:** Lecture

**Contact Hours:** 4 lecture

**Grade Mode:** Standard Letter

**PCS 80230 PRECLINICAL SCIENCES COMPETENCY 4 Credit Hours**

This course will assist students with preparation for taking the APMLE Part 1 board examination. Specifically this course will address the preclinical science areas of general anatomy (Including embryology, histology, genetics and neuroanatomy); lower extremity anatomy; biochemistry; physiology; microbiology and immunology; pathology; and pharmacology. Students must be in their the second year.

**Prerequisite:** Student must be enrolled in the Podiatric Medicine program.

**Schedule Type:** Lecture

**Contact Hours:** 4 lecture

**Grade Mode:** Satisfactory/Unsatisfactory

## Psychology (PSYC)

**PSYC 11762 GENERAL PSYCHOLOGY (DIVD) (KSS) 3 Credit Hours**

Introduction to the scientific approach to understanding human behavior and mental processes such as emotions, perceptions and cognitions.

Topics may include personality, social and environmental factors, biological aspects of behavior and the experience of emotion and psychological disorders.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Diversity Domestic, Kent Core Social Sciences, TAG Social and Behavioral Sciences, Transfer Module Social Sciences

**PSYC 20651 CHILD PSYCHOLOGY (DIVD) (KSS) 3 Credit Hours**

A review of the data, concepts and theories of psychology that contribute to the understanding of child development from conception to age 14.

**Prerequisite:** PSYC 11762.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Diversity Domestic, Kent Core Social Sciences, TAG Social and Behavioral Sciences, Transfer Module Social Sciences

**PSYC 21211 PSYCHOLOGY OF EVERYDAY LIFE (DIVD) (KSS) 3 Credit Hours**

A review of theories, concepts and data that contribute to the understanding of human adjustment. Topics may include the following: personality, stress and coping, transitions from adolescence to adulthood, psychological disorders and psychotherapy.

**Prerequisite:** PSYC 11762.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Diversity Domestic, Kent Core Social Sciences, Transfer Module Social Sciences

**PSYC 21621 QUANTITATIVE METHODS IN PSYCHOLOGY I 3 Credit Hours**

Application of quantitative, statistical methods in psychological research. Descriptive and inferential methods (includes ANOVA, t-test and correlation).

**Prerequisite:** PSYC 11762.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PSYC 22221 MULTICULTURAL PSYCHOLOGY (DIVD) 3 Credit Hours**

Examination of areas of psychology upon which diversity issues have a bearing and focused study of psychological issues relevant to African-American, Asian-American, Hispanic/Latino American and American Indian groups.

**Prerequisite:** PSYC 11762.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Diversity Domestic, Transfer Module Social Sciences

**PSYC 30005 CAREER PATHWAYS IN PSYCHOLOGY 1 Credit Hour**

Designed to equip students with a better understanding of the career pathways available to them in psychology at the bachelor's and graduate level. Using a combination of videos, articles and activities, students learn about many different topics and strategies related to careers and the graduate school application process.

**Prerequisite:** PSYC 11762.

**Schedule Type:** Lecture

**Contact Hours:** 1 lecture

**Grade Mode:** Standard Letter

**PSYC 30111 FORENSIC PSYCHOLOGY 3 Credit Hours**

Surveys major areas of forensic psychology, which focuses on the application of the science and profession of psychology to legal settings. Topics include roles and responsibilities of forensic psychologists, forensic assessment, psychological theories of criminal behavior, law enforcement psychology and eyewitness testimony.

**Prerequisite:** PSYC 11762.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PSYC 30651 ADOLESCENT PSYCHOLOGY 3 Credit Hours**

Students review the theories, concepts and data that contribute to the understanding of the physical, intellectual, educational, personality and social development of adolescents in contemporary society.

**Prerequisite:** PSYC 11762.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** TAG Social and Behavioral Sciences

**PSYC 30652 SOCIAL AND PERSONALITY DEVELOPMENT 3 Credit Hours**

Processes and findings in social and personality development, with a focus on childhood and adolescence. Students examine individual differences, as well as developmental changes, in social function and personality.

**Prerequisite:** PSYC 11762; and HDFS 24012 or PSYC 20651.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PSYC 30655 CHILDREN'S THINKING 3 Credit Hours**

Focuses on how children's cognitive processes and mental representations change from infancy to early adulthood. Theoretical claims, empirical findings and methodological issues are critically evaluated. Topics include children's visual and auditory perception, language and literacy, learning and memory, mathematical and spatial thinking, logical and scientific reasoning, problem solving, theory of mind and social cognition.

**Prerequisite:** PSYC 11762; and HDFS 24012 or PSYC 20651.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PSYC 30656 PSYCHOLOGY OF AGING 3 Credit Hours**

Exploration of basic research and theory on the psychological consequences of aging and psychological factors that affect the behavior of older persons.

**Prerequisite:** PSYC 11762.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PSYC 30821 PSYCHOLOGY OF MOTIVATION 3 Credit Hours**

Factors that provide the energy and direction for behaviors, emotions and cognitive processes. Seeks to answer the question 'why' concerning the things people do, feel and think. A survey approach is used to include both the traditional and newly emerging concepts in motivation.

**Prerequisite:** PSYC 11762.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PSYC 30822 SPORT PSYCHOLOGY 3 Credit Hours**

Introduction to the use of psychological theories and interventions in sport and performance settings. Can include topics such as performance anxiety, maintaining focus under pressure, motivation, leadership, among others.

**Prerequisite:** PSYC 11762.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PSYC 31141 PERCEPTION 3 Credit Hours**

Investigates how humans detect, organize and interpret information from the environment. Considers how both biological and psychological process create and influence our perception of the world.

**Prerequisite:** PSYC 11762.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PSYC 31282 PERSONALITY 3 Credit Hours**

A review of the data, concepts and theories of psychology that contribute to the understanding of personality.

**Prerequisite:** PSYC 11762.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** TAG Social and Behavioral Sciences

**PSYC 31498 UNDERGRADUATE RESEARCH (ELR) 1-6 Credit Hours**

(Repeatable for maximum 16 credit hours) Individual research open to qualified students.

**Prerequisite:** PSYC 11762; and special approval.

**Schedule Type:** Research

**Contact Hours:** 1-6 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**Attributes:** Experiential Learning Requirement

**PSYC 31532 SOCIAL PSYCHOLOGY 3 Credit Hours**

Study of environmental/situational influences on a person's thoughts, behaviors and feelings-focus on topics such as aggression, attitudes and behaviors, conformity, helping, personal relationships and social cognition.

**Prerequisite:** PSYC 11762.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** TAG Social and Behavioral Sciences



**PSYC 31574 RESEARCH METHODS IN PSYCHOLOGY (ELR) 3 Credit Hours**

The rationale, logic and procedures of scientific research in psychology with an emphasis on measurement, causal inference and research design.

**Prerequisite:** PSYC 11762 and PSYC 21621.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Experiential Learning Requirement

**PSYC 31634 ANIMAL COGNITION 3 Credit Hours**

Focuses on the nature of cognition and intelligence in nonhuman animals. Topics include animal studies of perception and attention, associative learning, memory, spatial cognition, concept formation, reasoning and language in nonhuman animals.

**Prerequisite:** PSYC 11762.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PSYC 31684 QUANTITATIVE METHODS IN PSYCHOLOGY II 3 Credit Hours**

Small sample theory, analysis of variance, linear regression and nonparametric statistics (e.g. Chi Square). Course may include qualitative analyses and computer-based data analyses with SPSS software.

**Prerequisite:** PSYC 21621.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PSYC 31773 INDUSTRIAL PSYCHOLOGY 3 Credit Hours**

Application of principles, facts and theories of psychology to people at work. Includes motivation and satisfaction at work, personnel selection and placement, training and development, performance appraisal, organizational development, quality of work life, ergonomics and consumer psychology.

**Prerequisite:** PSYC 11762.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PSYC 40111 ABNORMAL PSYCHOLOGY 3 Credit Hours**

Survey of the definitions as well as the biological, psychological and sociocultural causes of various psychological disorders. Illustrations of these disorders with cases. Overview of treatment approaches to these disorders may be included.

**Prerequisite:** PSYC 11762.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** TAG Social and Behavioral Sciences

**PSYC 40112 PSYCHOLOGICAL DISORDERS OF CHILDHOOD AND ADOLESCENCE 3 Credit Hours**

Covers the biological, psychological and socio-cultural factors influencing the development of psychological disorders in children and adolescents. Emphasis is placed on conceptual and research issues and the application of knowledge to understanding diagnosis and case studies of specific disorders.

**Prerequisite:** PSYC 11762; and HDFS 24012 or PSYC 20651 or PSYC 30651; and junior or senior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PSYC 40231 PSYCHOLOGICAL ASSESSMENT 3 Credit Hours**

Introduction to psychometrics and test theory. Use and basic interpretation of intellectual and personality tests. Skills in using tests at a professional level not given.

**Prerequisite:** PSYC 11762 and PSYC 21621.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PSYC 40382 PEDIATRIC PSYCHOLOGY 3 Credit Hours**

(Slashed with PSYC 50382 and PSYC 70382) Survey of the current topics and research in the field of pediatric (or child health) psychology. Includes a general overview of a number of pediatric psychology topics, including opportunities for more focused study of specific conditions and illnesses. Class sessions cover a mix of general issues (e.g., systems, adherence, diversity, stress and coping), descriptions of clinical roles in pediatric psychology (e.g., consultation liaison, multidisciplinary teams) and specific pediatric conditions with a focus on understanding the role of pediatric psychology.

**Prerequisite:** PSYC 20651; and junior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PSYC 40383 INTRODUCTION TO CLINICAL PSYCHOLOGY 3 Credit Hours**

Application of psychological principles and techniques to the problems of the individual. Course is designed to introduce the field of clinical psychology, including models of understanding abnormal behavior, treatment of individuals and ethics and professional issues.

**Prerequisite:** PSYC 11762.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PSYC 40445 COGNITIVE PSYCHOLOGY 3 Credit Hours**

Covers the mental processes that underline human thought and behavior, such as attention, memory, comprehension, reasoning, problem-solving and language. Considers established and current theoretical models, research methods and experimental results.

**Prerequisite:** PSYC 11762.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PSYC 40446 COGNITIVE NEUROSCIENCE 3 Credit Hours**

Covers the cognitive and neural processes that underlie vision, attention, spatial processing, memory, language, social processes, executive functioning and action. Introduces basic brain structure and the behavioral and functional imaging techniques used to study the brain bases of cognition. Data from patients with neurological disorders such as Alzheimer's, aphasia, amnesia are also examined.

**Prerequisite:** PSYC 11762.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter



**PSYC 40461 PSYCHOLOGY OF LANGUAGE 3 Credit Hours**

Investigates psychological processes involved in language production, comprehension and development. Within each broad area emphasis is on theories, psychological experiments, key findings and the relationships between theory, method and data.

**Prerequisite:** PSYC 11762 and PSYC 40445.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PSYC 40625 DEVELOPMENT OF GENDER ROLE AND IDENTITY (DIVD) 3 Credit Hours**

A life-span, developmental model is used to analyze the changes that occur with age in gender-related role performance and identity formation.

**Prerequisite:** PSYC 11762.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Diversity Domestic

**PSYC 40974 HISTORY OF PSYCHOLOGY 3 Credit Hours**

(Slashed with PSYC 50974) Course examines the historical context, influences and individuals instrumental in the development of psychology. Course organization is designed to compare and contrast systems, theories and fundamental issues with which psychologists have concerned themselves in past and contemporary stages of the science.

**Prerequisite:** PSYC 11762; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PSYC 41043 BASIC LEARNING PROCESSES 3 Credit Hours**

Examination of basic principles of Pavlovian conditioning, instrumental conditioning, animal learning and memory processes and animal cognition. Emphasis on major empirical phenomena derived from research with animals with reference to related psychological processes in humans.

**Prerequisite:** PSYC 11762.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PSYC 41363 BIOPSYCHOLOGY 3 Credit Hours**

Rigorous course covering the relationship between brain and behavior at the physiological, chemical and anatomical levels. Focuses on the association between the central nervous system and various processes and behaviors such as learning, emotions, neurological disorders and psychopathology. Students with no background or coursework in biological science should plan to devote considerable time to mastering the relevant concepts for this course (e.g., structure and function of neurons).

**Prerequisite:** PSYC 11762; and sophomore standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PSYC 41364 DRUGS AND BEHAVIOR 3 Credit Hours**

Provides an overview of drug taking in society, the actions of drugs in the body and the effects of drugs on behavior. Focus is on drugs and the nervous system, psychopharmacology and actions and side effects of such drugs as alcohol, opiates, stimulants, marijuana, hallucinogens, depressants and performance-enhancing drugs. Particular focus is on medications for psychiatric disorders, abuse-potential and the causes of addiction, dependence and relapse.

**Prerequisite:** PSYC 11762.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PSYC 41395 SPECIAL TOPICS IN CHILD PSYCHOLOGY 3 Credit Hours**

(Repeatable for credit)(Slashed with PSYC 51395 and PSYC 71395) In-depth examination of particular topics of current interest to faculty and students. Specialized areas of child psychology. Specific topic varies per course offering.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PSYC 41492 INTERNSHIP IN PSYCHOLOGY (ELR) 1-6 Credit Hours**

(Repeatable for credit) Application of psychological knowledge and skills in applied settings. Allows academic credit for participation as an intern at approved internship sites, including social service, non-profit agencies, government agencies and hospital settings.

**Prerequisite:** 9 credit hours of psychology courses; and minimum 3.000 overall GPA; and psychology major; and junior standing; and special approval.

**Schedule Type:** Practical Experience

**Contact Hours:** 7-42 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**Attributes:** Experiential Learning Requirement

**PSYC 41495 SPECIAL TOPICS IN PSYCHOLOGY 1-3 Credit Hours**

(Repeatable for credit) In-depth examination of particular topics of current interest to faculty and students. Specialized areas of research theory or methodology may be covered. Specific topics announced.

**Prerequisite:** PSYC 11762.

**Schedule Type:** Lecture

**Contact Hours:** 1-3 lecture

**Grade Mode:** Standard Letter

**PSYC 41498 INDIVIDUAL INVESTIGATION (ELR) 1-6 Credit Hours**

(Repeatable for maximum 16 credit hours) Involves participation in empirical research, review of psychological literature and preparation of a paper or annotated bibliography.

**Prerequisite:** PSYC 11762; and special approval.

**Schedule Type:** Individual Investigation

**Contact Hours:** 1-6 other

**Grade Mode:** Standard Letter-IP

**Attributes:** Experiential Learning Requirement

**PSYC 41573 LABORATORY EXPERIENCE IN PSYCHOLOGICAL RESEARCH: SOCIAL/CLINICAL (WIC) 3 Credit Hours**

(Repeatable for credit) Intensive experience in the conduct, analysis and reporting of empirical research in social or clinical psychology. Specific content varies with instructor.

**Prerequisite:** PSYC 11762 and PSYC 21621 and PSYC 31574; and minimum 3.200 overall GPA.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Writing Intensive Course

**PSYC 41574 LABORATORY EXPERIENCE IN PSYCHOLOGICAL RESEARCH: COGNITIVE/LEARNING (WIC) 3 Credit Hours**

(Repeatable for credit) Intensive experience in the conduct, analysis and reporting of empirical research in cognitive psychology or human/animal learning. Specific content varies with instructor.

**Prerequisite:** PSYC 11762 and PSYC 21621 and PSYC 31574; and minimum 3.200 overall GPA; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Writing Intensive Course

**PSYC 41581 HEALTH PSYCHOLOGY 3 Credit Hours**

Role of psychological and social factors in health and illness, typically covering three general areas: (1) psychological factors affecting disease, (2) psychological and social consequences of illness and (3) psychotherapeutic interventions.

**Prerequisite:** PSYC 11762.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PSYC 41584 THE PSYCHOLOGY OF EXERCISE 3 Credit Hours**

Provides an introduction to exercise psychology, which is the application of psychology to promote, maintain, enhance and explain the parameters of exercise. Course introduces students to the cutting-edge research and practical application of exercise psychology. Topics include use of psychological theory to predict adoption and adherence to exercise behavior; social and personality influences on exercise behavior; research on effectiveness of various exercise interventions; and consequences of exercise, including mental health states such as depression and anxiety, emotional well-being, self-esteem, self-concept, health-related quality of life and cognition.

**Prerequisite:** PSYC 11762.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PSYC 41595 SPECIAL TOPICS IN COUNSELING CAREERS 3 Credit Hours**

(Repeatable for credit)(Slashed with PSYC 51595 and PSYC 71595) In-depth examination of particular topics of current interest to faculty and students. Specialized areas of psychology relevant to counseling careers. Topic varies per course offering.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PSYC 41980 RESEARCH WRITING IN PSYCHOLOGY (WIC) 1 Credit Hour**

Writing-intensive course taken in conjunction with PSYC 31574.

**Pre/corequisite:** PSYC 31574.

**Schedule Type:** Lecture

**Contact Hours:** 1 lecture

**Grade Mode:** Standard Letter

**Attributes:** Writing Intensive Course

**PSYC 41990 WRITING IN PSYCHOLOGY (WIC) 1 Credit Hour**

Writing-intensive course taken in conjunction with a 3-credit-hour, upper-division psychology course (may not be taken with PSYC 31498, PSYC 41498, PSYC 41573, PSYC 41574 or PSYC 41993).

**Prerequisite:** Special approval.

**Schedule Type:** Lecture

**Contact Hours:** 1 lecture

**Grade Mode:** Standard Letter

**Attributes:** Writing Intensive Course

**PSYC 41993 VARIABLE TITLE WORKSHOP IN PSYCHOLOGY 1-6 Credit Hours**

(Repeatable for credit) Specific topic varies per course offering.

**Prerequisite:** PSYC 11762; and special approval.

**Schedule Type:** Workshop

**Contact Hours:** 1-6 other

**Grade Mode:** Satisfactory/Unsatisfactory

**PSYC 42574 ADVANCED RESEARCH METHODS 3 Credit Hours**

Course helps students integrate information learned in previous courses to better understand the process of conducting research in the field of psychology. Through hands-on experiences, students use basic statistical analyses to answer hypotheses; review scientific literature and generate hypotheses; test hypotheses using a dataset; and present research findings.

**Prerequisite:** PSYC 31574.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PSYC 43001 CLINICAL NEUROANATOMY 3 Credit Hours**

(Slashed with PSYC 53001 and PSYC 73001)(Cross-listed with BMS 50701 and BMS 70701) Course examines the anatomical organization of the human brain, emphasizing functional aspects of various neural systems, neuroimaging and topics of clinical relevance. Students must have a conceptual understanding of central nervous system organization and memorization of specific neural structures and pathways, as well as knowledge of the impact of structure and systems dysfunction.

**Prerequisite:** Minimum 3.250 overall GPA; and junior standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PSYC 43002 CURRENT TECHNIQUES IN BEHAVIORAL NEUROSCIENCE 3 Credit Hours**

(Slashed with PSYC 53002 and PSYC 73002)(Cross-listed with BMS 50702 and BMS 70702) Course details current and advanced techniques used in behavioral neuroscience research. Emphasis is placed on understanding the theory behind each technique, and its use in understanding the neural mechanisms of behavior. Detailed protocols for each technique are also covered.

**Prerequisite:** Minimum B grade in BSCI 30140 or BSCI 30156 or BSCI 30520 or PSYC 41363; and minimum 3.250 overall GPA; and junior standing; and special approval from instructor.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PSYC 43003 NEURAL MECHANISMS OF LEARNING AND MEMORY 3 Credit Hours**

(Slashed with PSYC 53003 and PSYC 73003)(Cross-listed with BMS 50703 and BMS 70703) Course examines the neural and molecular mechanisms underlying learning and memory formation. Covers cellular mechanisms of learning, including long-term potentiation and basic electrophysiology in invertebrate and mammalian preps. Transcriptional and post-translational modifications required for learning and memory formation, genomic signaling and protein synthesis. Also covers structural changes of neurons associated with memory formation, and the different behavioral methods for studying memory.

**Prerequisite:** BSCI 30520 or PSYC 41363 with a minimum B grade; and minimum 3.250 overall GPA; and junior standing; and special approval from instructor.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PSYC 47385 BROKEN BRAINS: INTRODUCTION TO CLINICAL NEUROPSYCHOLOGY 3 Credit Hours**

Clinical neuropsychology is the study of brain-behavior relationships or the ways in which the brain allows people to think, feel and behave in their everyday life. Course introduces students to cutting-edge research into the inner workings of the brain in both healthy individuals and those with neurological disorders (e.g. Alzheimer's disease, brain injury, ADHD, bipolar disorder). Topics include organization of the brain; how people learn, pay attention and solve problems; brain plasticity; neurological disorders; and neuropsychological assessment.

**Prerequisite:** PSYC 11762.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PSYC 47387 NEUROPSYCHOPHARMACOLOGY 3 Credit Hours**

(Slashed with PSYC 57387 and PSYC 77387) Neuropsychopharmacology is the study of how drugs and other chemicals affect brain and behavior. Course introduces students to the behavioral effects of psychoactive/therapeutic drugs and neurotoxic chemicals in relation to their neural and molecular mechanisms of action. Covers general principles of neuropsychopharmacology; nervous system structure in relation to behavior and mind, brain and behavioral systems that are affected by different classes of drugs and toxic chemicals; and methods employed in neuropsychopharmacology research.

**Prerequisite:** PSYC 11762.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PSYC 50382 PEDIATRIC PSYCHOLOGY 3 Credit Hours**

(Slashed with PSYC 40382 and PSYC 70382) Survey of the current topics and research in the field of pediatric (or child health) psychology. Includes a general overview of a number of pediatric psychology topics, including opportunities for more focused study of specific conditions and illnesses. Class sessions cover a mix of general issues (e.g., systems, adherence, diversity, stress and coping), descriptions of clinical roles in pediatric psychology (e.g., consultation liaison, multidisciplinary teams) and specific pediatric conditions with a focus on understanding the role of pediatric psychology.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PSYC 50974 HISTORY OF PSYCHOLOGY 3 Credit Hours**

(Slashed with PSYC 40974) Course examines the historical context, influences and individuals instrumental in the development of psychology. Course organization is designed to compare and contrast systems theories and fundamental issues with which psychologists have concerned themselves in past and contemporary states of the science.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PSYC 51395 SPECIAL TOPICS IN CHILD PSYCHOLOGY 3 Credit Hours**

(Repeatable for credit)(Slashed with PSYC 41395 and PSYC 71395) In-depth examination of particular topics of current interest to faculty and students. Specialized areas of child psychology. Specific topic varies per course offering.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PSYC 51595 SPECIAL TOPICS IN COUNSELING CAREERS 3 Credit Hours**

(Repeatable for credit)(Slashed with PSYC 41595 and PSYC 71595) In-depth examination of particular topics of current interest to faculty and students. Specialized areas of psychology relevant to counseling careers. Topic varies per course offering.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PSYC 51993 VARIABLE TITLE WORKSHOP IN PSYCHOLOGY 1-6 Credit Hours**

(Repeatable for credit) Specific topic varies per course offering.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Workshop

**Contact Hours:** 1-6 other

**Grade Mode:** Satisfactory/Unsatisfactory

**PSYC 53001 CLINICAL NEUROANATOMY 3 Credit Hours**  
(Slashed with PSYC 43001 and PSYC 73001)(Cross-listed with BMS 50701 and BMS 70701) Course examines the anatomical organization of the human brain, emphasizing functional aspects of various neural systems, neuroimaging and topics of clinical relevance. Students must have a conceptual understanding of central nervous system organization and memorization of specific neural structures and pathways, as well as knowledge of the impact of structure and systems dysfunction.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PSYC 53002 CURRENT TECHNIQUES IN BEHAVIORAL NEUROSCIENCE 3 Credit Hours**

(Slashed with PSYC 43002 and PSYC 73002)(Cross-listed with BMS 50702 and BMS 70702) Course details current and advanced techniques used in behavioral neuroscience research. Emphasis is placed on understanding the theory behind each technique, and its use in understanding the neural mechanisms of behavior. Detailed protocols for each technique are also covered.

**Prerequisite:** Graduate standing; and special approval from instructor.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PSYC 53003 NEURAL MECHANISMS OF LEARNING AND MEMORY 3 Credit Hours**

(Slashed with PSYC 43003 and PSYC 73003)(Cross-listed with BMS 50703 and BMS 70703) Course examines the neural and molecular mechanisms underlying learning and memory formation. Covers cellular mechanisms of learning, including long-term potentiation and basic electrophysiology in invertebrate and mammalian preps. Transcriptional and post-translational modifications required for learning and memory formation, genomic signaling and protein synthesis. Also covers structural changes of neurons associated with memory formation, and the different behavioral methods for studying memory.

**Prerequisite:** Graduate standing; and special approval from instructor.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PSYC 57387 NEUROPSYCHOPHARMACOLOGY 3 Credit Hours**

(Slashed with PSYC 47387 and PSYC 77387) Neuropsychopharmacology is the study of how drugs and other chemicals affect brain and behavior. Course introduces students to the behavioral effects of psychoactive/therapeutic drugs and neurotoxic chemicals in relation to their neural and molecular mechanisms of action. Covers general principles of neuropsychopharmacology; nervous system structure in relation to behavior and mind, brain and behavioral systems that are affected by different classes of drugs and toxic chemicals; and methods employed in neuropsychopharmacology research.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PSYC 60105 DEVELOPMENTAL PSYCHOPATHOLOGY 3 Credit Hours**

(Slashed with PSYC 70105) Nature and theoretical explanations of various forms of psychopathology in children and adults. Students learn about the methods used to research psychopathology and understand contemporary controversies in the study of developmental psychopathology.

**Prerequisite:** Clinical psychology or psychological science major; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PSYC 60110 INTRODUCTION TO PSYCHOPATHOLOGY: CHILD 3 Credit Hours**

(Slashed with PSYC 70110) Introduction to psychopathology from a developmental perspective. Covers models of classification and specific disorders of childhood.

**Prerequisite:** Clinical psychology or psychological science major; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PSYC 60170 INTRODUCTION TO PSYCHOPATHOLOGY: ADULT 3 Credit Hours**

(Slashed with PSYC 70170) An examination of the etiology, symptomology and theoretical models of adult psychopathology.

**Prerequisite:** Clinical psychology or psychological science major; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PSYC 60192 INTEGRATION PRACTICUM 1-3 Credit Hours**

(Repeatable for credit) Integration of assessment, psychopathology and psychotherapy coursework. Emphasis on learning how to conceptualize cases in general and from differing theoretical perspectives.

**Prerequisite:** PSYC 60292 and PSYC 60792; and clinical psychology or psychological science major; and graduate standing.

**Schedule Type:** Lecture, Practical Experience

**Contact Hours:** 1-3 lecture

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**PSYC 60272 INTRODUCTION TO PSYCHOLOGICAL ASSESSMENT 3 Credit Hours**

(Slashed with PSYC 70272) Introduction to psychological assessment as a process for solving important clinical problems. Theoretical methodological and research issues are emphasized. Students become familiar with major psychological tests.

**Prerequisite:** Clinical psychology or psychological science major; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PSYC 60273 ADVANCED PSYCHOLOGICAL ASSESSMENT: ADULT 3 Credit Hours**

(Slashed with PSYC 70273) Examines psychodiagnosis within a context of 'personality-as-a-coherent-whole.' Emphasizes an ideographic approach with a theoretical framework, which organizes and gives meaning to observations.

**Prerequisite:** PSYC 60272; and clinical psychology or psychological science major; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PSYC 60274 ADVANCED PSYCHOLOGICAL ASSESSMENT: CHILD 3 Credit Hours**

(Slashed with PSYC 70274) Interviewing, developmental and intellectual assessments, personality evaluations, behavioral assessments and assessment of special-child populations. Emphasis on the rationale and integration of research relevant to appropriate use and interpretation.

**Prerequisite:** PSYC 60272 and PSYC 60292; and clinical psychology or psychological science major; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PSYC 60275 BEHAVIORAL ASSESSMENT 3 Credit Hours**

(Slashed with PSYC 70275) Considers behavioral assessment from an empirical as well as an applied perspective. Intended for persons familiar with general assessment, psychopathology and psychotherapy issues.

**Prerequisite:** PSYC 60272 and PSYC 60292; and clinical psychology or psychological science major; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PSYC 60276 NEUROPSYCHOLOGICAL ASSESSMENT 3 Credit Hours**

(Slashed with PSYC 70276) Introduction to the conceptual foundations of neuropsychological assessment and practical knowledge in assessment procedures, methods of interpretation and differential diagnosis.

**Prerequisite:** Clinical psychology or psychological science major; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PSYC 60292 PSYCHOLOGICAL ASSESSMENT PRACTICUM 1-3 Credit Hours**

(Repeatable for credit) Applied aspects of material presented in PSYC 60272. Emphasis on administering, scoring and interpreting major assessment tools.

**Prerequisite:** Clinical psychology or psychological science major; and graduate standing.

**Corequisite:** PSYC 60272.

**Schedule Type:** Practical Experience

**Contact Hours:** 3 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**PSYC 60324 PROFESSIONAL ISSUES AND ETHICS IN CLINICAL PSYCHOLOGY 3 Credit Hours**

(Slashed with PSYC 70324) Review of professional concerns in the field, including training, ethics, client rights, economics, legal issues, relationship to other professions and professional organization and policy.

**Prerequisite:** Clinical psychology or psychological science major; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PSYC 60326 CLINICAL ASPECTS OF HEALTH PSYCHOLOGY 3 Credit Hours**

(Slashed with PSYC 70326) Consideration of psychosocial influences on health status that are relevant to the clinician. Attention is given to interventions on both individual and community levels. Emphasis on approaches to prevention treatment and public policy.

**Prerequisite:** Clinical psychology or psychological science major; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PSYC 60371 INTRODUCTION TO PSYCHOLOGICAL THERAPY 3 Credit Hours**

(Slashed with PSYC 70371) Introduction to psychotherapy, with special emphasis on psychodynamic and phenomenological approaches with theory, technique and major research findings considered.

**Prerequisite:** Clinical psychology or psychological science major; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PSYC 60375 COGNITIVE BEHAVIOR THERAPY 3 Credit Hours**

(Slashed with PSYC 70375) Empirical and clinical aspects of cognitive and behavioral interventions. Intended for students familiar with basic psychotherapy assessment and psychopathology issues.

**Prerequisite:** PSYC 60371 and PSYC 60292; and clinical psychology or psychological science major; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PSYC 60376 CHILD PSYCHOTHERAPY 3 Credit Hours**

(Slashed with PSYC 70376) Consideration of various aspects of child psychotherapy, including general issues, traditional therapies, behavior and cognitive behavior therapies and child therapy research. Emphasis on integration of theory, technique and research.

**Prerequisite:** PSYC 60371; and clinical psychology or psychological science major; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter



**PSYC 60395 ADVANCED TOPICS IN CLINICAL PSYCHOLOGY 1-6 Credit Hours**

(Repeatable for credit)(Slashed with PSYC 70395) Advanced-level consideration of selected content areas in assessment, psychotherapy, psycho pathology, professional issues, and community psychology. Specific topic varies per course offering.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 1-6 lecture

**Grade Mode:** Standard Letter

**PSYC 60453 INTRODUCTION TO COGNITIVE PSYCHOLOGY 3 Credit Hours**

(Slashed with PSYC 70453) Information-processing approaches to human thought. Focus on processes used to transform, store, manipulate, and retrieve sensory input. Topics include attention, pattern recognition, memory, and language.

**Prerequisite:** Clinical psychology or psychological science major; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PSYC 60592 PRACTICUM IN DIAGNOSTIC INTERVIEWING 1-3 Credit Hours**

(Repeatable for maximum 3 credit hours) Covers skills clinical psychologists must possess to help clients, effectively work within the field, communicate effectively with peers and colleagues, and excel as a clinical researcher. Provides a foundation of skills, knowledge, and expertise necessary to competently conduct a diagnostic interview, and provides an introduction to the process of conceptualizing a client's presenting problem(s).

**Prerequisite:** Clinical psychology or psychological science major; and graduate standing.

**Schedule Type:** Practical Experience

**Contact Hours:** 3-9 other

**Grade Mode:** Standard Letter-IP

**PSYC 60792 PSYCHOTHERAPY PRACTICUM 1-3 Credit Hours**

(Repeatable for credit) Basic training in applied aspects of psychotherapy. Through didactic and experiential methods, students learn basic listening and communication skills that are then applied to specific techniques, situations, and issues.

**Prerequisite:** Clinical psychology or psychological science major; and graduate standing.

**Corequisite:** PSYC 60371.

**Schedule Type:** Practical Experience

**Contact Hours:** 3-9 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**PSYC 60895 ADVANCED TOPICS IN EXPERIMENTAL PSYCHOLOGY 1-6 Credit Hours**

(Repeatable for credit)(Slashed with PSYC 70895) Advanced-level consideration of selected content areas in experimental psychology. Specific topic varies per course offering.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 1-6 lecture

**Grade Mode:** Standard Letter

**PSYC 60950 HISTORY AND CONTEMPORARY SYSTEMS 3 Credit Hours**

(Slashed with PSYC 70950) Relationships between historical antecedents and the major contemporary systems and theories of psychology.

**Prerequisite:** Clinical psychology or psychological science major; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PSYC 61054 LEARNING AND CONDITIONING 3 Credit Hours**

(Slashed with PSYC 71054) Introduction to basic conditioning processes. Emphasis on Pavlovian and instrumental learning phenomena, particularly as these are exemplified in animal models of behavior.

**Prerequisite:** Clinical psychology or psychological science major; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PSYC 61199 THESIS I 2-6 Credit Hours**

Thesis students must register for a total of 6 hours, 2 to 6 hours in a single semester, distributed over several semesters if desired.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Masters Thesis

**Contact Hours:** 2-6 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**PSYC 61260 THEORIES OF PERSONALITY 3 Credit Hours**

(Slashed with PSYC 71260) Consideration of major theoretical orientations, including psychoanalysis, phenomenology, and those stressing learning. Emphasis on principal concepts; deals less with research methods and findings.

**Prerequisite:** Clinical psychology or psychological science major; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PSYC 61299 THESIS II 2 Credit Hours**

Thesis students must continue registration each semester until all degree requirements are met.

**Prerequisite:** PSYC 61199; and graduate standing.

**Schedule Type:** Masters Thesis

**Contact Hours:** 2 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**PSYC 61350 PHYSIOLOGICAL PSYCHOLOGY 3 Credit Hours**

(Slashed with PSYC 71350) Neurophysiological, neurochemical, and neuroanatomical factors in the control of cognitive processes, motivation, and behavior. Emphasis is on the broad coverage of major topics in the field.

**Prerequisite:** Clinical psychology or psychological science major; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PSYC 61498 RESEARCH 1-15 Credit Hours**

(Repeatable for credit) Research or individual investigation. Credits may be applied toward meeting degree requirements with department approval and when satisfactory grade is given.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Research

**Contact Hours:** 1-15 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**PSYC 61548 PSYCHOLOGY OF GENDER AND MINORITIES 3 Credit Hours**

(Slashed with PSYC 71548) Neurophysiological, neurochemical and neuroanatomical factors in the control of cognitive processes motivation and behavior. Emphasis is on the broad coverage of major topics in the field.

**Prerequisite:** Clinical psychology or psychological science major; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PSYC 61580 SOCIAL PSYCHOLOGY 3 Credit Hours**

(Slashed with PSYC 71580) Introduction to empirical research and theories on the psychological processes related to interpersonal and small group behavior.

**Prerequisite:** Clinical psychology or psychological science major; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PSYC 61651 QUANTITATIVE STATISTICAL ANALYSIS I 3 Credit Hours**

(Slashed with PSYC 71651) Review of univariate statistics and an introduction to using bivariate and multivariate statistics. Part one of a two-semester sequence on statistical analysis.

**Prerequisite:** Clinical psychology or psychological science major; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PSYC 61654 QUANTITATIVE STATISTICAL ANALYSIS II 3 Credit Hours**

(Slashed with PSYC 71654) Multivariate statistics for classifying individuals and variables. Additional topics include power/effect size and handling missing data. Part two of a two-semester sequence on statistical analysis.

**Prerequisite:** Clinical psychology or psychological science major; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PSYC 61685 CLINICAL RESEARCH METHODS 3 Credit Hours**

(Slashed with PSYC 71685) Consideration of research methodologies relevant to clinical psychology, with emphasis on strengths and weaknesses of research designs and issues related to collection and evaluation of data.

**Prerequisite:** Clinical psychology or psychological science major; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PSYC 61993 VARIABLE TITLE WORKSHOP IN PSYCHOLOGY 1-6 Credit Hours**

(Repeatable for maximum 6 credit hours) Workshop topic varies per course offering.

**Prerequisite:** Clinical psychology or psychological science major; and graduate standing.

**Schedule Type:** Workshop

**Contact Hours:** 1-6 other

**Grade Mode:** Satisfactory/Unsatisfactory

**PSYC 62392 CLINICAL PRACTICUM 1-3 Credit Hours**

(Repeatable for credit) Beginning practicum in psychological clinic involving selection, administration and evaluation of tests of ability and personality.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Practical Experience

**Contact Hours:** 1-3 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**PSYC 62492 ADVANCED PRACTICUM 1-3 Credit Hours**

(Repeatable for credit) Intensified experience in the diagnosis and treatment of specific disorders from the scientist-practitioner model.

**Prerequisite:** PSYC 60192 and PSYC 60292 and PSYC 60792; and clinical psychology or psychological science major; and graduate standing.

**Schedule Type:** Practical Experience

**Contact Hours:** 1-3 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**PSYC 62685 RESEARCH METHODS IN PSYCHOLOGICAL SCIENCE 3 Credit Hours**

(Slashed with PSYC 72685) Course fosters the development of graduate students as independent researchers by helping them acquire knowledge of and facility with quantitative research methods in psychology. The course covers a range of topics that are essential for successful research in psychology, including formulating research questions, measurement, research design, sampling, ethics, writing, replication and validity.

**Prerequisite:** Clinical psychology or psychological science major; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PSYC 70105 DEVELOPMENTAL PSYCHOPATHOLOGY 3 Credit Hours**

(Slashed with PSYC 60105) Nature and theoretical explanations of various forms of psychopathology in children and adults. Students learn about the methods used to research psychopathology and understand contemporary controversies in the study of developmental psychopathology.

**Prerequisite:** Clinical psychology or psychological science major; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PSYC 70110 INTRODUCTION TO PSYCHOPATHOLOGY: CHILD 3 Credit Hours**

(Slashed with PSYC 60110) Introduction to psychopathology from a developmental perspective. Covers models of classification and specific disorders of childhood.

**Prerequisite:** Clinical psychology or psychological science major; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PSYC 70170 INTRODUCTION TO PSYCHOPATHOLOGY: ADULT 3 Credit Hours**

(Slashed with PSYC 60170) An examination of the etiology, symptomology and theoretical models of adult psychopathology.

**Prerequisite:** Clinical psychology or psychological science major; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PSYC 70192 INTEGRATION PRACTICUM 1-3 Credit Hours**

(Repeatable for credit) Integration of assessment, psychopathology and psychotherapy coursework. Emphasis on learning how to conceptualize cases in general and from differing theoretical perspectives.

**Prerequisite:** PSYC 70292 and PSYC 70792; and clinical psychology or psychological science major; and doctoral standing.

**Schedule Type:** Lecture, Practical Experience

**Contact Hours:** 3 lecture

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**PSYC 70272 INTRODUCTION TO PSYCHOLOGICAL ASSESSMENT 3 Credit Hours**

(Slashed with PSYC 60272) Introduction to psychological assessment as a process for solving important clinical problems. Theoretical methodological and research issues are emphasized. Students become familiar with major psychological tests.

**Prerequisite:** Clinical psychology or psychological science major; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PSYC 70273 ADVANCED PSYCHOLOGICAL ASSESSMENT: ADULT 3 Credit Hours**

(Slashed with PSYC 60273) Examines psychodiagnosis within a context of 'personality-as-a-coherent-whole.' Emphasizes an ideographic approach with a theoretical framework, which organizes and gives meaning to observations.

**Prerequisite:** PSYC 70272; and clinical psychology or psychological science major; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PSYC 70274 ADVANCED PSYCHOLOGICAL ASSESSMENT: CHILD 3 Credit Hours**

(Slashed with PSYC 60274) Interviewing, developmental and intellectual assessments, personality evaluations, behavioral assessments and assessment of special-child populations. Emphasis on the rationale and integration of research relevant to appropriate use and interpretation.

**Prerequisite:** PSYC 70272 and PSYC 70292; and clinical psychology or psychological science major; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PSYC 70275 BEHAVIORAL ASSESSMENT 3 Credit Hours**

(Slashed with PSYC 60275) Considers behavioral assessment from an empirical as well as an applied perspective. Intended for persons familiar with general assessment, psychopathology and psychotherapy issues.

**Prerequisite:** PSYC 70272 and PSYC 70292; and clinical psychology or psychological science major; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PSYC 70276 NEUROPSYCHOLOGICAL ASSESSMENT 3 Credit Hours**

(Slashed with PSYC 60276) Introduction to the conceptual foundations of neuropsychological assessment and practical knowledge in assessment procedures, methods of interpretation and differential diagnosis.

**Prerequisite:** Clinical psychology or psychological science major; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PSYC 70292 PSYCHOLOGICAL ASSESSMENT PRACTICUM 1-3 Credit Hours**

(Repeatable for credit) Applied aspects of material presented in PSYC 70272. Emphasis on administering, scoring and interpreting major assessment tools.

**Prerequisite:** Clinical psychology or psychological science major; and doctoral standing.

**Corequisite:** PSYC 70272.

**Schedule Type:** Practical Experience

**Contact Hours:** 1-3 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**PSYC 70324 PROFESSIONAL ISSUES AND ETHICS IN CLINICAL PSYCHOLOGY 3 Credit Hours**

(Slashed with PSYC 60324) Review of professional concerns in the field, including training, ethics, client rights, economics, legal issues, relationship to other professions and professional organization and policy.

**Prerequisite:** Clinical psychology or psychological science major; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PSYC 70326 CLINICAL ASPECTS OF HEALTH PSYCHOLOGY 3 Credit Hours**

(Slashed with PSYC 60326) Consideration of psychosocial influences on health status that are relevant to the clinician. Attention is given to interventions on both individual and community levels. Emphasis on approaches to prevention treatment and public policy.

**Prerequisite:** Clinical psychology or psychological science major; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PSYC 70371 INTRODUCTION TO PSYCHOLOGICAL THERAPY 3 Credit Hours**

(Slashed with PSYC 60371) Introduction to psychotherapy, with special emphasis on psychodynamic and phenomenological approaches with theory, technique and major research findings considered.

**Prerequisite:** Clinical psychology or psychological science major; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PSYC 70375 COGNITIVE BEHAVIOR THERAPY 3 Credit Hours**

(Slashed with PSYC 60375) Empirical and clinical aspects of cognitive and behavioral interventions. Intended for students familiar with basic psychotherapy assessment and psychopathology issues.

**Prerequisite:** PSYC 70371 and PSYC 70292; and clinical psychology or psychological science major; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PSYC 70376 CHILD PSYCHOTHERAPY 3 Credit Hours**

(Slashed with PSYC 60376) Consideration of various aspects of child psychotherapy, including general issues, traditional therapies, behavior and cognitive behavior therapies and child therapy research. Emphasis on integration of theory technique and research.

**Prerequisite:** Clinical psychology or psychological science major; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PSYC 70382 PEDIATRIC PSYCHOLOGY 3 Credit Hours**

(Slashed with PSYC 40382 and PSYC 50382) Survey of the current topics and research in the field of pediatric (or child health) psychology. Includes a general overview of a number of pediatric psychology topics, including opportunities for more focused study of specific conditions and illnesses. Class sessions cover a mix of general issues (e.g., systems, adherence, diversity, stress and coping), descriptions of clinical roles in pediatric psychology (e.g., consultation liaison, multidisciplinary teams) and specific pediatric conditions with a focus on understanding the role of pediatric psychology.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PSYC 70392 SUPERVISED CLINICAL EXPERIENCE 1-3 Credit Hours**

(Repeatable for credit) Post-practicum, psychological service provision and/or research activities in institution or agency under supervision of licensed psychologist and by arrangement of department of psychology.

**Prerequisite:** PSYC 72392; and doctoral standing; and special approval.

**Schedule Type:** Field Experience

**Contact Hours:** 1-3 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**PSYC 70395 ADVANCED TOPICS IN CLINICAL PSYCHOLOGY 1-6 Credit Hours**

(Repeatable for credit)(Slashed with PSYC 60395) Advanced-level consideration of selected content areas in assessment, psychotherapy, psychopathology, professional issues and community psychology. Specific topic varies per course offering.

**Prerequisite:** Doctoral standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 1-6 lecture

**Grade Mode:** Standard Letter

**PSYC 70413 COGNITIVE NEUROPSYCHOLOGY 3 Credit Hours**

The effect of brain injury and anomalous neurological development on cognitive skills such as language, perception and memory are explored.

**Prerequisite:** Clinical psychology or psychological science major; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PSYC 70453 INTRODUCTION TO COGNITIVE PSYCHOLOGY 3 Credit Hours**

(Slashed with PSYC 60453) Information-processing approaches to human thought. Focus on processes used to transform, store, manipulate and retrieve sensory input. Topics include attention, pattern recognition, memory and language.

**Prerequisite:** Clinical psychology or psychological science major; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PSYC 70592 PRACTICUM IN DIAGNOSTIC INTERVIEWING 1-3 Credit Hours**

(Repeatable for maximum 3 credit hours) Covers skills clinical psychologists must possess to help clients, effectively work within the field, communicate effectively with peers and colleagues and excel as a clinical researcher. Provides a foundation of skills, knowledge and expertise necessary to competently conduct a diagnostic interview, and provides an introduction to the process of conceptualize a client's presenting problem(s).

**Prerequisite:** Clinical psychology or psychological science major; and doctoral standing.

**Schedule Type:** Practical Experience

**Contact Hours:** 3-9 other

**Grade Mode:** Standard Letter-IP

**PSYC 70604 COGNITIVE DEVELOPMENT 3 Credit Hours**

Examination of theories and research concerning changes in memory, perception, thought and language over the life span.

**Prerequisite:** Clinical psychology or psychological science major; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PSYC 70615 SOCIAL AND PERSONALITY DEVELOPMENT 3 Credit Hours**

Examination of theories and research in social development, with a focus on how personal relationships influence personality development.

**Prerequisite:** Clinical psychology or psychological Science major; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PSYC 70792 PSYCHOTHERAPY PRACTICUM 1-3 Credit Hours**

(Repeatable for credit) Basic training in applied aspects of psychotherapy. Through didactic and experiential methods, students learn basic listening and communication skills that are then applied to specific techniques situations and issues.

**Prerequisite:** Clinical psychology or psychological science major; and doctoral standing.

**Schedule Type:** Practical Experience

**Contact Hours:** 3-9 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP



**PSYC 70895 ADVANCED TOPICS IN EXPERIMENTAL PSYCHOLOGY 1-6 Credit Hours**

(Repeatable for credit)(Slashed with PSYC 60895) Advanced-level consideration of selected content areas in experimental psychology. Specific topic varies per course offering.

**Prerequisite:** Doctoral standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 1-6 lecture

**Grade Mode:** Standard Letter

**PSYC 70950 HISTORY AND CONTEMPORARY SYSTEMS 3 Credit Hours**

(Slashed with PSYC 60950) Relationships between historical antecedents and the major contemporary systems and theories of psychology.

**Prerequisite:** Clinical psychology or psychological science major; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PSYC 71054 LEARNING AND CONDITIONING 3 Credit Hours**

(Slashed with PSYC 61054) Introduction to basic conditioning processes.

Emphasis on Pavlovian and instrumental learning phenomena, particularly as these are exemplified in animal models of behavior.

**Prerequisite:** Clinical psychology or psychological science major; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PSYC 71260 THEORIES OF PERSONALITY 3 Credit Hours**

(Slashed with PSYC 61260) Consideration of major theoretical orientations, including psychoanalysis, phenomenology and those stressing learning. Emphasis on principal concepts; deals less with research methods and findings.

**Prerequisite:** Clinical psychology or psychological science major; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PSYC 71307 PSYCHOBIOLOGICAL ASPECTS OF HEALTH PSYCHOLOGY 3 Credit Hours**

An introduction to non-neural aspects of psychobiology, with emphasis on psycho-endocrinology, psychoimmunology and the psychobiologic aspects of disease.

**Prerequisite:** Clinical psychology or psychological science major; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PSYC 71350 PHYSIOLOGICAL PSYCHOLOGY 3 Credit Hours**

(Slashed with PSYC 61350) Neurophysiological, neurochemical and neuroanatomical factors in the control of cognitive processes motivation and behavior. Emphasis is on the broad coverage of major topics in the field.

**Prerequisite:** Clinical psychology or psychological science major; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PSYC 71395 SPECIAL TOPICS IN CHILD PSYCHOLOGY 3 Credit Hours**

(Repeatable for credit)(Slashed with PSYC 41395 and PSYC 51395) In-depth examination of particular topics of current interest to faculty and students. Specialized areas of child psychology. Specific topic varies per course offering.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PSYC 71507 PSYCHOSOCIAL ASPECTS OF HEALTH PSYCHOLOGY 3 Credit Hours**

Examines concepts of disease and their implications for health.

Emphasizes psychosocial stress in disease etiology and psychological factors influencing illness recovery.

**Prerequisite:** Clinical psychology or psychological science major; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PSYC 71548 PSYCHOLOGY OF GENDER AND MINORITIES 3 Credit Hours**

(Slashed with PSYC 61548) Neurophysiological, neurochemical and neuroanatomical factors in the control of cognitive processes motivation and behavior. Emphasis is on the broad coverage of major topics in the field.

**Prerequisite:** Clinical psychology or psychological science major; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PSYC 71580 SOCIAL PSYCHOLOGY 3 Credit Hours**

(Slashed with PSYC 61580) Introduction to empirical research and theories on the psychological processes related to interpersonal and small group behavior.

**Prerequisite:** Clinical psychology or psychological science major; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PSYC 71595 SPECIAL TOPICS IN COUNSELING CAREERS 3 Credit Hours**

(Repeatable for credit)(Slashed with PSYC 41595 and PSYC 51595) In-depth examination of particular topics of current interest to faculty and students. Specialized areas of psychology related to counseling careers. Topic varies per course offering.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PSYC 71651 QUANTITATIVE STATISTICAL ANALYSIS I 3 Credit Hours**

(Slashed with PSYC 61651) Review of univariate statistics and an introduction to using bivariate and multivariate statistics. Part one of a two-semester sequence on statistical analysis.

**Prerequisite:** Clinical psychology or psychological science major; and doctoral standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter



**PSYC 71654 QUANTITATIVE STATISTICAL ANALYSIS II 3 Credit Hours**

(Slashed with PSYC 61654) Multivariate statistics for classifying individuals and variables. Additional topics include power/effect size and handling missing data. Part two of a two-semester sequence on statistical analysis.

**Prerequisite:** PSYC 71651; and clinical psychology or psychological science major; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PSYC 71685 CLINICAL RESEARCH METHODS 3 Credit Hours**

(Slashed with PSYC 61685) Consideration of research methodologies relevant to clinical psychology, with emphasis on strengths and weaknesses of research designs and issues related to collection and evaluation of data.

**Prerequisite:** Clinical psychology or psychological science major; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PSYC 71894 COLLEGE TEACHING OF PSYCHOLOGY 3 Credit Hours**

(Repeatable for maximum 6 credit hours) Training and experience in college teaching.

**Prerequisite:** Clinical psychology or psychological science major; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Satisfactory/Unsatisfactory

**PSYC 71993 VARIABLE TITLE WORKSHOP IN PSYCHOLOGY 1-6 Credit Hours**

(Repeatable for maximum 6 credit hours) Workshop topic varies per course offering.

**Prerequisite:** Clinical psychology or psychological science major; and doctoral standing.

**Schedule Type:** Workshop

**Contact Hours:** 1-6 other

**Grade Mode:** Satisfactory/Unsatisfactory

**PSYC 72392 CLINICAL PRACTICUM 1-3 Credit Hours**

(Repeatable for credit) Beginning practicum in psychological clinic involving selection, administration and evaluation of tests of ability and personality.

**Prerequisite:** Doctoral standing; and special approval.

**Schedule Type:** Practical Experience

**Contact Hours:** 1-3 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**PSYC 72445 MULTIVARIATE STATISTICS 3 Credit Hours**

Intended to cover two major multivariate statistical techniques in psychology: structural equation modeling (SEM) and hierarchical linear modeling (HLM).

**Prerequisite:** PSYC 71654 and PSYC 72445; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PSYC 72492 ADVANCED PRACTICUM 1-3 Credit Hours**

(Repeatable for credit) Intensified experience in the diagnosis and treatment of specific disorders from the scientist-practitioner model.

**Prerequisite:** PSYC 70192 and PSYC 70292 and PSYC 70792; and clinical psychology or psychological science major; and doctoral standing.

**Schedule Type:** Practical Experience

**Contact Hours:** 1-3 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**PSYC 72685 RESEARCH METHODS IN PSYCHOLOGICAL SCIENCE 3 Credit Hours**

(Slashed with PSYC 62685) Course fosters the development of graduate students as independent researchers by helping them acquire knowledge of and facility with quantitative research methods in psychology. The course covers a range of topics that are essential for successful research in psychology, including formulating research questions, measurement, research design, sampling, ethics, writing, replication and validity.

**Prerequisite:** Clinical psychology or psychological science major; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PSYC 73001 CLINICAL NEUROANATOMY 3 Credit Hours**

(Slashed with PSYC 43001 and PSYC 53001)(Cross-listed with BMS 50701 and BMS 70701) Course examines the anatomical organization of the human brain, emphasizing functional aspects of various neural systems, neuroimaging and topics of clinical relevance. Students must have a conceptual understanding of central nervous system organization and memorization of specific neural structures and pathways, as well as knowledge of the impact of structure and systems dysfunction.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PSYC 73002 CURRENT TECHNIQUES IN BEHAVIORAL NEUROSCIENCE 3 Credit Hours**

(Slashed with PSYC 43002 and PSYC 53002)(Cross-listed with BMS 50702 and BMS 70702) Course details current and advanced techniques used in behavioral neuroscience research. Emphasis is placed on understanding the theory behind each technique, and its use in understanding the neural mechanisms of behavior. Detailed protocols for each technique are also covered.

**Prerequisite:** Doctoral standing; and special approval from instructor.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PSYC 73003 NEURAL MECHANISMS OF LEARNING AND MEMORY 3 Credit Hours**

(Slashed with PSYC 43003 and PSYC 53003)(Cross-listed with BMS 50703 and BMS 70703) Course examines the neural and molecular mechanisms underlying learning and memory formation. Covers cellular mechanisms of learning, including long-term potentiation and basic electrophysiology in invertebrate and mammalian preps. Transcriptional and post-translational modifications required for learning and memory formation, genomic signaling and protein synthesis. Also covers structural changes of neurons associated with memory formation, and the different behavioral methods for studying memory.

**Prerequisite:** Doctoral standing; and special approval from instructor.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PSYC 77387 NEUROPSYCHOPHARMACOLOGY 3 Credit Hours**

(Slashed with PSYC 47387 and PSYC 57387) Neuropsychopharmacology is the study of how drugs and other chemicals affect brain and behavior. Course introduces students to the behavioral effects of psychoactive/therapeutic drugs and neurotoxic chemicals in relation to their neural and molecular mechanisms of action. Covers general principles of neuropsychopharmacology; nervous system structure in relation to behavior and mind, brain and behavioral systems that are affected by different classes of drugs and toxic chemicals; and methods employed in neuropsychopharmacology research.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PSYC 80391 SEMINAR IN CLINICAL PSYCHOLOGY 3 Credit Hours**

(Repeatable for credit) Seminar devoted to detailed study of various topics in field of clinical psychology. Specific topic varies per course offering.

**Prerequisite:** Doctoral standing; and special approval.

**Schedule Type:** Seminar

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**PSYC 80491 SEMINAR IN COGNITIVE PSYCHOLOGY 3 Credit Hours**

(Repeatable for credit) Seminar on current research in cognitive psychology. Specific topics will be announced in schedule of classes.

**Prerequisite:** Doctoral standing; and special approval.

**Schedule Type:** Seminar

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**PSYC 81091 SEMINAR IN LEARNING AND BIOPSYCHOLOGY 3 Credit Hours**

(Repeatable for credit) Seminar on current research in learning and biopsychology. Specific topic varies per course offering.

**Prerequisite:** Clinical psychology or psychological science major; and doctoral standing.

**Schedule Type:** Seminar

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**PSYC 81199 DISSERTATION I 15 Credit Hours**

(Repeatable for credit) Doctoral dissertation, for which registration in at least two semesters is required the first of which will be semester in which dissertation work is begun and continuing until the completion of 30 hours.

**Prerequisite:** Doctoral standing; and special approval.

**Schedule Type:** Dissertation

**Contact Hours:** 15 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**PSYC 81299 DISSERTATION II 15 Credit Hours**

(Repeatable for credit) Continuing registration required of doctoral students who have completed the initial 30 hours of dissertation and continuing until all degree requirements are met.

**Prerequisite:** PSYC 81199; and doctoral standing.

**Schedule Type:** Dissertation

**Contact Hours:** 15 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**PSYC 81498 RESEARCH 1-15 Credit Hours**

(Repeatable for credit) Research or individual investigation for doctoral students. Credits may be applied toward degree with department approval.

**Prerequisite:** Doctoral standing; and special approval.

**Schedule Type:** Research

**Contact Hours:** 1-15 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**PSYC 81591 SEMINAR IN PERSONALITY AND SOCIAL PSYCHOLOGY 3 Credit Hours**

(Repeatable for credit) Seminar on current research in areas of social psychology. Specific topics will be announced in schedule of classes.

**Prerequisite:** Doctoral standing in psychology.

**Schedule Type:** Seminar

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**PSYC 81691 SEMINAR IN QUANTITATIVE METHODS 3 Credit Hours**

(Repeatable for credit) Seminar on applications of quantitative methods within various content areas of psychology. Specific topic varies per course offering.

**Prerequisite:** Doctoral standing; and special approval.

**Schedule Type:** Seminar

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

## Public Administration (PADM)

**PADM 60195 SPECIAL TOPICS IN PUBLIC ADMINISTRATION 3 Credit Hours**

(Repeatable for credit) (Cross-listed with POL 70195) Topic varies per course offerings.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PADM 60198 RESEARCH IN PUBLIC ADMINISTRATION 1-3 Credit Hours**

(Repeatable for credit) Research or individual investigation. Credits earned may be applied toward a degree with department approval.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Research

**Contact Hours:** 1-3 other

**Grade Mode:** Standard Letter-IP

**PADM 60200 NONPROFIT ADVOCACY 3 Credit Hours**

This course explores the U.S. public-policy making process as it applies to nonprofit organizations. Nonprofits influence policy making or "advocacy" through a variety of methods, such as lobbying, campaigning, protesting, and policy monitoring. The course explores how nonprofit organizations both shape and are shaped by public policy.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PADM 60310 LEADERSHIP IN THE NONPROFIT AND PUBLIC SECTOR 3 Credit Hours**

This course teaches students theory, practice, and skills for leading nonprofit and public organizations. Topics include: organizational theory and behavior; organizational culture; integrity and ethics; group dynamics; conflict management; and creating an environment that promotes diversity and inclusion.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PADM 60371 GRADUATE INTRODUCTION TO PUBLIC ADMINISTRATION 3 Credit Hours**

(Cross-listed with POL 70371) Introductory course to the theory and study of public administration. Topics include evolution and characteristics of the modern nation state; core functions of public bureaucracy in any nation state; intergovernmental relations; formal and informal institutions and their role in policy; legal-regulatory processes; historical evolution of public administration as an academic field; and major paradigms in organization theory and internal organizational dynamics.

**Prerequisite:** Public administration major; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PADM 60375 PUBLIC PERSONNEL ADMINISTRATION 3 Credit Hours**

Study of public personnel systems, including underlying system values and current problems with emphasis on skill development and understanding of techniques for public personnel managers.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PADM 60376 LABOR MANAGEMENT RELATIONS IN THE PUBLIC SECTOR 3 Credit Hours**

This course focuses on issues peculiar to public sector labor relations, including the impact of public employee unionism on traditional merit systems and personnel policy decision processes.

**Prerequisite:** PADM 60375; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PADM 60377 PUBLIC BUDGETING AND FINANCIAL MANAGEMENT 3 Credit Hours**

(Cross-listed with POL 70377) Focuses on two aspects of public financial analysis: budgeting and financial management. The topics in budgeting are the basic purposes of budgets as mechanisms of resource control and allocation, and as legal documents; distinct budget formats and cross-walking of formats; budget preparation; legislative review; implementation and auditing. The topics in financial management are the mechanisms and tools for financing public operations, debt management, fund accounting, analyzing budgets and forecasting.

**Prerequisite:** Public administration major; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PADM 60378 MUNICIPAL MANAGEMENT AND ADMINISTRATION 3 Credit Hours**

Detailed analysis of metropolitan complex. Emphasis given to administrative, political, fiscal and legal problems in governing cities.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PADM 60379 PROGRAM EVALUATION I 3 Credit Hours**

(Cross-listed with POL 70379) Introduction to evaluation of government programs. Emphasis on familiarizing students with the theory and specifically the techniques utilized under different evaluation formats.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PADM 60381 METHODS IN PUBLIC ADMINISTRATION 3 Credit Hours**

This course is a graduate-level introduction to statistical methods and their use in public administration.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PADM 60382 SEMINAR IN PUBLIC ADMINISTRATION 3 Credit Hours**

Study of selected problem areas in public service organizations with emphasis on understanding the factors contributing to them, their solution and literature bearing on the problems.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PADM 60386 PUBLIC SECTOR INFORMATION TECHNOLOGY MANAGEMENT 3 Credit Hours**

(Cross-listed with POL 70386) Management of information technology systems in the public sector. Specific focus on: planning and acquisition of hardware and software and networking technologies, organizational governance and implementation, information security and privacy, legal requirements, IT service delivery and emerging enterprise technologies.

**Prerequisite:** Public administration major; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PADM 60387 ELECTRONIC GOVERNANCE 3 Credit Hours**

(Cross-listed with POL 70387) An introduction to electronic governance with an emphasis on public administration. Examines the implications of information and communication technology in public organizations with regard to democracy, civic engagement and performance improvement. Through case studies from the United States and across the world, students become familiar with the factors and issues surrounding the implementation of electronic governance on a comparative basis.

**Prerequisite:** PADM 60386; and public administration major; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PADM 60392 INTERNSHIP IN PUBLIC ADMINISTRATION 3 Credit Hours**

(Repeatable for credit) Provides an opportunity for students to gain practical experience and be exposed to processes of public decision making and policy development.

**Prerequisite:** Public administration major; and graduate standing; and special approval.

**Schedule Type:** Practical Experience

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter-IP

**PADM 60470 PERSONAL ACCOUNTABILITY IN THE PUBLIC SERVICE 3 Credit Hours**

(Cross-listed with POL 70470) Focus is on students internalizing their role in the public service as stewards of the public trust. Topics covered include dimensions of stewardship: maintaining personal honor, protecting the liberty and dignity of the citizen, dimensions of justice, anti-corruption, incorporating principles of stewardship in their personal decision making and throughout the organization.

**Prerequisite:** Public administration major; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PADM 60471 NONPROFIT LAW 3 Credit Hours**

(Cross-listed with POL 70471) Introduction to legal issues for nonprofit organizations in the United States, including types of IRS tax exempt status, basic requirements for establishing/operating nonprofit organizations specifically in Ohio.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PADM 60472 NONPROFIT BOARD EXEC RELATIONS 3 Credit Hours**

(Cross-listed with POL 70472) Key aspects of effective nonprofit governance, major roles of nonprofit board members and their responsibilities and governance structures.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PADM 60475 CAPSTONE SEMINAR 3 Credit Hours**

(Repeatable for credit) (Cross-listed with POL 70475) Students complete an approved, written project that is analytical and research-based.

**Prerequisite:** Public administration major; and graduate standing; and special approval.

**Schedule Type:** Seminar

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter-IP

**PADM 60477 NONPROFIT FINANCIAL RESOURCE DEVELOPMENT 3 Credit Hours**

(Cross-listed with POL 70477) Successful strategies for fundraising and resource development for nonprofit organizations. Students are exposed to fundraising in practice and write a resource development plan.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PADM 60574 STRATEGIC PLANNING 3 Credit Hours**

(Cross-listed with POL 70574) Introduction to the practice of strategic planning as it relates to policy design and implementation by public and nonprofit organizations.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

## Public Health (PH)

**PH 10000 EXPLORING CAREERS IN PUBLIC HEALTH 1 Credit Hour**

Provides an overview of the diverse career opportunities available in the field. Explores various public health issues from the perspectives of public health professionals from the core disciplines in public health: social behavioral sciences, environmental health, health policy and management, epidemiology and biostatistics. Students learn about how public health professionals approach issues and the types of professional roles and activities they bring to addressing each issue.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 1 lecture

**Grade Mode:** Standard Letter

**PH 10001 INTRODUCTION TO PUBLIC HEALTH 3 Credit Hours**

An overview of the evolution and practices of the dynamic field of public health in the United States and globally. Students are introduced to the structure and functions of public health organizations and public health practice.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PH 10002 INTRODUCTION TO GLOBAL HEALTH (DIVG) 3 Credit Hours**

An overview of the biological, social and environmental contributors to health and diseases in populations around the world, including case studies of selected infectious diseases, nutritional deficiencies and health effects of environmental change.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Diversity Global



**PH 10003 EXPLORING CAREERS IN GLOBAL HEALTH 1 Credit Hour**

Course provides students with an introduction to global health and an overview of the diverse career opportunities available in the field. The global health sector is evolving as one of the primary career destinations and is moving beyond the traditional roles of science, pharmacy, medicine and nursing; additional areas also include communications, technology, data scientists, finance, management, legal, linguistics, international relations, and most important, cross functional skills are needed.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 15 lecture, 0 lab, 0 other

**Grade Mode:** Standard Letter

**PH 10195 SPECIAL TOPICS IN PUBLIC HEALTH 1-3 Credit Hours**

(Repeatable for credit) Subject varies depending on the emerging issue.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 1-3 lecture

**Grade Mode:** Standard Letter

**PH 20000 PUBLIC HEALTH PROFESSIONAL PRACTICE I 1 Credit Hour**

Professional development course designed to expose future public health leaders to the diverse field of public health and develop attainable career goals. Student will begin the development of personal goals and a portfolio of work that will build during the entire program. The understanding of public health as a profession will be fostered.

**Prerequisite:** Sophomore standing.

**Schedule Type:** Lecture

**Contact Hours:** 1 lecture

**Grade Mode:** Standard Letter

**PH 20001 ESSENTIALS OF EPIDEMIOLOGY 3 Credit Hours**

Students are introduced to the strategies adopted by public health professionals to study distribution and identification of important biologic, social and environmental determinants of diseases and health-related states in specific populations.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PH 20010 INTRODUCTION TO PUBLIC HEALTH INFORMATICS 3 Credit Hours**

Provides an overview of informatics principles applied in public health settings. Issues addressed include definitions, approaches, competencies, applications and the national health information network. Topical areas are digital literacy, electronic communication, system development, information use, project management, procurement, accountability, research, data standards, databases, human resource management, and confidentiality and security.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PH 20015 ZOMBIE OUTBREAK 3 Credit Hours**

Teaches the basic survival skills necessary to protect you, your family, and the public from a variety of natural and manmade "apocalypses". Students apply the basics of emergency Public Health management to a zombie outbreak.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PH 20195 SPECIAL TOPICS IN PUBLIC HEALTH 1-3 Credit Hours**

(Repeatable for credit) Subject varies depending on the emerging issue.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 1-3 lecture

**Grade Mode:** Standard Letter

**PH 20392 COMMUNITY HEALTH WORKER CERTIFICATION II- INTERNSHIP (ELR) 3 Credit Hours**

Internship course providing necessary contact hours for the Ohio Community Health Worker Certification.

**Prerequisite:** PH 23000.

**Schedule Type:** Practical Experience

**Contact Hours:** 9 other

**Grade Mode:** Standard Letter-IP

**Attributes:** Experiential Learning Requirement

**PH 22001 PLAGUES AND PANDEMICS: HOW INFECTION SHAPED CULTURE AND HISTORY 3 Credit Hours**

Infectious diseases continue to affect us all in the present, and plagues have shaped the course of history. From the Justinian plague in the 6th Century to the decimation of Native populations in the US by smallpox to the 1918 influenza pandemic, human history has been influenced by microbes—and our culture, in turn, can affect the generation of new plagues. This course is appropriate both for humanities majors looking for an introduction to infectious diseases as well as science majors looking to better understand infectious diseases in their historical and cultural context, and the way these diseases have (and continue to) shape history. Ultimately, students should be able to understand the basics of infectious disease epidemiology and disease control within a wide cultural and historical context. The course will encompass various topics in microbiology and infectious disease, using primarily popular non-fiction books on these subjects as sources.

**Prerequisite:** None.

**Schedule Type:** Lecture, Seminar

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PH 23000 COMMUNITY HEALTH WORKER CERTIFICATION I 3 Credit Hours**

Students will be guided through the competencies of a Community Health Worker (CHW). Students will be introduced to soft skills and culture including but not limited to basic health care, community resources, advocacy, communication and service skills related to working with communities. Lifespan development will also be covered including but not limited to: Basic health information and education regarding prevention and treatment throughout the lifespan. Prerequisite: None

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PH 30000 PUBLIC HEALTH PROFESSIONAL PRACTICE II 1 Credit Hour**

Professional development course designed to further prepare future public health leaders to the diverse field of public health. The career portfolio will be further developed. Career goals will be re-evaluated and the strategies for goal attainment reassessed. The understanding of public health as a profession will be further developed. Graduate or professional education as an option will be discussed in greater detail.

**Prerequisite:** PH 20000; and junior standing.

**Schedule Type:** Lecture

**Contact Hours:** 1 lecture

**Grade Mode:** Standard Letter



**PH 30002 INTRODUCTORY BIOSTATISTICS 3 Credit Hours**

An introduction to statistical methodology in the field of public health. Students learn the statistical skills to read scientific articles, understand the statistical methods used and interpret the results on their own.

**Prerequisite:** Any kent core mathematics; and critical reasoning course.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PH 30004 PUBLIC HEALTH RESEARCH 3 Credit Hours**

Approaches involved in defining public health problems and steps involved in conducting research about these problems. Students are introduced to how to evaluate published public health research.

**Prerequisite:** PH 30002; and ENG 21011 or HONR 10297.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PH 30005 SOCIAL AND BEHAVIORAL SCIENCE THEORIES IN PUBLIC HEALTH 3 Credit Hours**

An overview of the contributions of the social and behavioral sciences to human health behavior, including application of studies in the area of health promotion, health protection and disease prevention in public health.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PH 30006 INTRODUCTION TO ENVIRONMENTAL HEALTH AND SAFETY 3 Credit Hours**

Introduction: the environment at risk; environmental epidemiology, environmental toxicology, environmental policy and regulation, watershed management, safe drinking water, wastewater management, vector-borne and zoonotic disease, air quality, solid and hazardous waste, food protection, radiation safety and injury prevention, occupational health and safety, total worker health, the built environment.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PH 30007 PREVENTION AND CONTROL OF DISEASES 3 Credit Hours**

Provides an overview of concepts involved in biological mechanisms of disease at cell, individual and community levels, provides insight into strategies used in preventing and controlling diseases at the population and/or community level within this framework.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PH 30009 ENVIRONMENTAL HEALTH AND SAFETY REGULATIONS AND POLICY 3 Credit Hours**

Develops a framework for understanding the regulatory structure of environmental and occupational health and safety regulations and policy in the U.S. Federal, state, and local levels of government are reviewed as well as major agencies and regulations.

**Prerequisite:** PH 30006.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PH 30012 COMMUNICABLE DISEASES 3 Credit Hours**

A survey of communicable diseases of global public health significance, including the epidemiology and forensics associated with disease transmission, vaccination strategies and practices, and human responses to infectious disease. Students are introduced to infectious disease pathogens and the practices and procedures for their surveillance, handling and control.

**Prerequisite:** PH 20001 and 30007.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PH 30014 STRATEGIES FOR PREVENTION IN PUBLIC HEALTH 3 Credit Hours**

Provides a review of population strategies for health promotion and disease prevention from a social-ecological perspective, highlighting the importance of evidence-based, equitable, and ethical approaches.

**Prerequisite:** PH 30007.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PH 30015 UNITED STATES HEALTH CARE SYSTEM 3 Credit Hours**

Provides an overview of the U.S. healthcare delivery system, including operations, stakeholders and the role of government with a particular emphasis on public health's role in health care. Students gain an understanding of inpatient and outpatient services, the various roles of healthcare professionals, private and public financing and the impact of managed care. The primary focus is the public health system.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PH 30020 FUNDAMENTALS OF HEALTH PRIVACY 1 Credit Hour**

This course will provide an overview of compliance in healthcare privacy and security within the context of the Health Insurance Portability and Accountability Act (HIPAA). Current topics such as electronic health records and the challenges posed by social media will be explored.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 1 lecture

**Grade Mode:** Standard Letter

**PH 30025 FUNDAMENTALS OF HEALTHCARE COMPLIANCE 1 Credit Hour**

This course will provide an overview of fraud, waste, and abuse compliance in the healthcare industry. The practical and legal basis for compliance programs will be explored as well as their creation, implementation, and maintenance.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 1 lecture

**Grade Mode:** Standard Letter

**PH 30033 PUBLIC HEALTH POLICY AND DECISION-MAKING 3 Credit Hours**

An introductory survey of the formulation to implementation of public health policies for various public health issues, and the use of practical administrative tools such as strategic planning, use of economic evaluation tools and decision analysis.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PH 30040 PUBLIC HEALTH LABORATORY SAFETY, SECURITY AND EMERGENCY PREPAREDNESS 3 Credit Hours**

Safe operations within the public health laboratory require specific knowledge and skills sets. Upon completion of this course, the student will (1) understand the public health laboratory infrastructure; (2) work safely and responsibly with equipment and reagents to investigate laboratory-based public health problems; (3) define the laws, policies and guidance documents related to public health laboratory activities; and (4) respond to simulated laboratory safety and security emergencies.

**Prerequisite:** PH 30006 and 30012.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 1 lecture, 2 lab

**Grade Mode:** Standard Letter

**PH 30101 SOLID AND HAZARDOUS WASTE MANAGEMENT 3 Credit Hours**

Solid and hazardous waste programs and practices are explored. Pollution prevention, safety, sanitation practices, sustainability concepts, management, and regulations pertinent to solid and hazardous waste such as RCRA, are discussed and studied. Consumption, garbage handling, landfill design and disposal, sustainability concepts, reuse, recycling, composting and other waste strategies are presented. Hazardous waste and materials issues in the environment are introduced; such as HW disposal, TSD Facilities, underground storage tanks, "Superfund", brownfields and related issues.

**Prerequisite:** PH 30006.

**Schedule Type:** Field Experience, Lecture

**Contact Hours:** 2.67 lecture, .33 other

**Grade Mode:** Standard Letter

**PH 30102 AIR QUALITY AND POLLUTION CONTROL 3 Credit Hours**

Basic survey of air pollution and its control. The respiratory system and the bodies response to air pollutants of different types is reviewed and related illnesses such as asthma are studied. The Clean Air Act, NESHAPS and related regulations are surveyed. Ambient air quality standards, the effect of climate and other air pollution concepts are reviewed. Measurement and control methods for both particulate and gaseous contaminants are surveyed.

**Prerequisite:** PH 30006.

**Schedule Type:** Field Experience, Lecture

**Contact Hours:** 2.67 lecture, .33 other

**Grade Mode:** Standard Letter

**PH 30103 FOOD PROTECTION 3 Credit Hours**

Topics in foodborne disease prevention and food sanitation relative to quality control, food service and processing systems are introduced. Foodborne disease agents, microbiology, epidemiology and outbreak investigation techniques are explored. The regulatory process and agencies at the wholesale, retail and food service levels are introduced. Ohio food regulations are covered, including the Ohio Uniform Food Code. Basic preparation of students to conduct food serve inspections and foodborne disease investigations as part of agency regulatory programs. The opportunity to earn the National Restaurant Association, ServSafe Manager Certification is also provided.

**Prerequisite:** PH 30006.

**Schedule Type:** Field Experience, Lecture

**Contact Hours:** 2.67 lecture, .33 other

**Grade Mode:** Standard Letter

**PH 30105 WATER AND WASTEWATER MANAGEMENT 3 Credit Hours**

Explores the issues surrounding water pollution and human health, and the environmental treatment systems developed to provide safe water and sewage disposal. Private water and sewage systems and public water and sewage systems are studied. Federal and State regulations, including the Safe Drinking Water Act and Clean Water Act are reviewed. Field experiences are included.

**Prerequisite:** PH 30006.

**Schedule Type:** Field Experience, Lecture

**Contact Hours:** 2.67 lecture, .33 other

**Grade Mode:** Standard Letter

**PH 30106 ENVIRONMENTAL TOXICOLOGY 3 Credit Hours**

Basic toxicological principles applied to studies of environmental health are surveyed. Basic concepts of toxicological testing, dose response, animal and other models, dose curves, LD50's, risk assessment, threshold theories, classifications of harmful effects, environmental pathways, metabolism and elimination are reviewed. Biological effects and the effect of select toxins on body systems are reviewed. Major groups of toxins and their effects are reviewed. Toxin behavior in air, water, wastewater, soil and environmental media are studied.

**Prerequisite:** PH 30006.

**Schedule Type:** Laboratory, Lecture

**Contact Hours:** 2.8 lecture, .2 lab

**Grade Mode:** Standard Letter

**PH 30110 HAZARDOUS MATERIALS MANAGEMENT 3 Credit Hours**

Covers the use of hazardous materials. Emphasis is on the safe management of hazardous materials in the workplace and community, their procurement, storage, regulation, pollution problems, use, release, clean up, disposal, and their control, to prevent workplace and community health and safety problems.

**Prerequisite:** PH 30006.

**Schedule Type:** Field Experience, Lecture

**Contact Hours:** 2.67 lecture, .33 lab

**Grade Mode:** Standard Letter

**PH 30195 SPECIAL TOPICS IN PUBLIC HEALTH 1-3 Credit Hours**

(Repeatable for credit) Subject varies depending on the emerging issue.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 1-3 lecture

**Grade Mode:** Standard Letter

**PH 31005 SOCIAL DETERMINANTS OF HEALTH AND HEALTH BEHAVIOR 3 Credit Hours**

Provides students with an overview of the social determinants of health behaviors and health outcomes. Students examine the relationships among the root causes of health disparities (education, income, inequality, race-ethnicity, social status-class, and gender) and more proximal causes of these disparities (e.g., access to and quality of medical care, work conditions, lifestyles, living conditions, social capital). These relationships are examined within ecological and multi-level theoretical frameworks.

**Prerequisite:** PH 30005.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PH 32005 EMERGING ISSUES IN COMMUNITY HEALTH 3 Credit Hours**

Provides students with exposure to touchstone issues in public health programming that have social and behavioral science implications. Topics reflect emergent priority areas and are expected to vary from semester to semester. Examples of current, emerging issues that may be covered include the Healthy People 2020 initiative, leading health indicators, role of CDC, state and local health departments and NGOs in promoting health behaviors, program recruitment, retention, evaluation and generalization challenges, ethical issues including informed consent and voluntary change, funding challenges for prevention programs, grant writing exposure, role of politics in public health programming, evidenced-based practices and practice-based evidence.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PH 34001 PUBLIC HEALTH INTERVENTIONS I 3 Credit Hours**

Provides an overview of the planning and development of public health interventions including environmental, social, and behavioral public health issues from a social-ecological perspective, with attention to evidence-based, theoretical, and ethical approaches.

**Prerequisite:** PH 30005.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PH 34002 PUBLIC HEALTH INTERVENTIONS II 3 Credit Hours**

Provides an overview of public health intervention implementation, evaluation, and sustainability, with examples of public health interventions in practice and exploration into the future of public health interventions.

**Prerequisite:** PH 34001.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PH 35001 COMMUNITY-BASED PUBLIC HEALTH PRACTICE (ELR) 3 Credit Hours**

Course focuses on the fundamentals of applying community engagement, organization, and development principles to create successful community public health interventions. Addresses work in at-risk and diverse communities using methods optimal for public health practice, including public health ethics, faith-based initiatives in community health, community health assessment and measurement methods, coalition building, and frameworks for developing health policy. Will also review the basic principles of health-related non-profit organization management and support. Prerequisite: PH 30005

**Schedule Type:** Lecture, Practical Experience

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Experiential Learning Requirement

**PH 35005 ADVOCACY AND ACTIVISM IN PUBLIC HEALTH 3 Credit Hours**

Public health advocacy and activism are areas of increasing importance for those in public health at both national and international levels because they offer more direct approaches to achieve lasting social and political change. This course provides a foundation to the theory, evidence-base and strategies that can be harnessed to bring about change to improve the lives and health of populations, and explains how activism has an essential role in public health policy and practice.

**Prerequisite:** Junior or senior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PH 40000 PUBLIC HEALTH PROFESSIONAL PRACTICE III 1 Credit Hour**

Professional development course designed to launch graduates into the workforce or graduate school. The career portfolio, resume, and cover letters will be finalized. Interviewing and application skills will be developed. Working with a College of Public Health career counselor students will develop job search strategies and begin the application process. Students continuing their education in a graduate program will work on application materials.

**Prerequisite:** PH 30000; and senior standing.

**Schedule Type:** Lecture

**Contact Hours:** 1 lecture

**Grade Mode:** Standard Letter

**PH 40013 CLINICAL EPIDEMIOLOGY BASICS 3 Credit Hours**

The purpose of this course is to develop an understanding of clinical research, Good Clinical Practices, research environments, and methods used in clinical research. The student will gain an understanding of the use of clinical investigation from the product development stage to the application of investigations in contract research organization. Ethical implications and regulatory issues will be examined.

**Prerequisite:** PH 20001.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PH 40014 CLINICAL TRIALS MANAGEMENT 3 Credit Hours**

Course examines the good clinical practices guidelines. Students learn how to conduct and manage clinical trials; understand clinical trials data; develop instruments and protocols; recognize quality control and data issues; know approaches to recruitment, retention and participant assessment; identify adverse events and measurement of response variables; and acquire skill in study close-out procedures.

**Prerequisite:** PH 40013.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PH 40015 SCIENTIFIC WRITING FOR CLINICAL RESEARCH 3 Credit Hours**

(Cross-listed with EPI 50015) Course provides students the tools to develop proficiency in scientific reading, to conduct presentations and to demonstrate skill in scientific writing, with the goal of preparing clinical researchers to be able to communicate findings to the science community and the general population. Course includes an examination of the science literature in clinical trials research.

**Prerequisite:** ENG 21011 or HONR 10297.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PH 40017 PHARMACOEPIDEMIOLOGY 3 Credit Hours**

(Cross-listed with EPI 50017) Introduction to the field of pharmacoepidemiology, which uses epidemiology methods to understand medication use and distribution at the population level. Course examines risk-benefit and epidemiology approaches to examining medication use and therapeutic trials. Drug and device manufacturing to market are explored.

**Prerequisite:** PH 40013 and PH 40014.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PH 40018 REGULATORY AFFAIRS IN CLINICAL RESEARCH 3 Credit Hours**

(Cross-listed with EPI 50018) Course provides the tools for students to develop an understanding of the researcher and organization responsibility in research and development of clinical trials products. Students understand regulations from the government and industry, privacy concerns, liability and ethical issues related to clinical trials research. Examples from the field are explored in detail.

**Prerequisite:** PH 40013 and PH 40014.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PH 40020 DISASTER PREPAREDNESS 3 Credit Hours**

College-level version of the FEMA "Are You Ready?" training designed to prepare average citizens to respond to emergency situations. Students learn how to appropriately prepare for and respond to natural and contrived emergencies, such as floods, tornados, fires, terrorism, etc. Students prepare an emergency response kit for home use, using materials from home or store, and learn how to shelter-in-place.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PH 40040 FORENSIC EPIDEMIOLOGY 3 Credit Hours**

Introduction to the principles and practices of investigative epidemiology. Inherent to the course is the understanding of how public health law impacts data collection and representation. Students learn the roles and responsibilities of the criminal justice, public health, and first responder communities as they relate to the investigation of public health crimes. Additionally, students use real case studies to apply knowledge in the investigation of mock public health crimes.

**Prerequisite:** Special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PH 40050 PUBLIC HEALTH AND FIRST RESPONDER LINKAGES 3 Credit Hours**

Capstone experience meant to unite students of public health with their professional partners. Students interact in the classroom and at the partners' place of business to link theory and practice, gain real-world knowledge and cement partnerships.

**Prerequisite:** PH 40040; and special approval.

**Schedule Type:** Field Experience, Lecture

**Contact Hours:** 1 lecture, 2 other

**Grade Mode:** Standard Letter

**PH 40060 PUBLIC HEALTH LABORATORY METHODS 3 Credit Hours**

This course introduces the student to the fundamental theory and hands on use to track specimen collection and laboratory analysis. Environmental specimens will be examined for their public health importance using classical and modern techniques. The student will spend time learning classical laboratory methods and their modern use in the laboratory environment. Examples include culture and microscopic identification of microorganisms, identification of disease vectors, detection of newborn disease and detection of terrorism agents.

**Prerequisite:** PH 30006 or CHEM 10062 or CHEM 10971 or BSCI 30140 or instructor approval.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 2 lecture, 1 lab

**Grade Mode:** Standard Letter

**PH 40092 INTERNATIONAL HEALTH PRACTICUM (ELR) 3-6 Credit Hours**

(Repeatable for credit) A supervised internship in global/international health.

**Prerequisite:** PH 10002; and junior or senior standing.

**Schedule Type:** Practical Experience

**Contact Hours:** 10-20 other

**Grade Mode:** Satisfactory/Unsatisfactory

**Attributes:** Experiential Learning Requirement

**PH 40100 VECTOR-BORNE AND ZOO NOTIC DISEASES 3 Credit Hours**

Presents a broad overview of major considerations related to human health and the vector-borne diseases transmitted by rodents and arthropods (insects and arachnids). Control measures, including rodent control, local mosquito control programs, and integrated pest management (IPM) concepts with safe pesticide use are reviewed. Application of FIFRA regulations are presented. An overview of issues associated with zoonotic diseases transmitted by animals, such as rabies, and their control are also included. Vector and reservoir relationships are explored.

**Prerequisite:** PH 30006.

**Schedule Type:** Field Experience, Lecture

**Contact Hours:** 2.67 lecture, .33 other

**Grade Mode:** Standard Letter

**PH 40101 OCCUPATIONAL HEALTH AND SAFETY 3 Credit Hours**

Introduction to workplace safety and industrial hygiene. The OSHA regulations and procedures are reviewed and workplace safety and health principles studied. Students learn how to anticipate, recognize, evaluate and control workplace hazards. Safety issues are surveyed; such as confined space, electrical LOTO, trenching, fall protection, walking and working surfaces. Industrial hygiene issues are surveyed; such as air contaminants, hazard communication, respiratory protection, ergonomics, noise control and bloodborne pathogens. Control measures for workplace hazards are discussed.

**Prerequisite:** PH 30006.

**Schedule Type:** Field Experience, Lecture

**Contact Hours:** 2.67 lecture, .33 other

**Grade Mode:** Standard Letter

**PH 40109 LABORATORY SAFETY AND HYGIENE 3 Credit Hours**

(Crosslisted with EHS 50109) Basic introduction to laboratory safety, chemical hygiene, and biosafety. Includes the research compliance programs of institutions (IBC, IACUC, IRB, RSC) and the OSHA Chemical Hygiene Standard requirements and program responsibilities. General lab safety concepts are reviewed, along with chemical handling and storage, fumehoods and ventilation, hazardous waste disposal, radiation safety, and lab design. Basic principles of biosafety are covered, BSL 1-4 levels, biosafety cabinets, select agents, bloodborne pathogens, NIH Guidelines, biosecurity and animal use.

**Prerequisite:** PH 30006.

**Schedule Type:** Field Experience, Lecture

**Contact Hours:** 2.67 lecture, .33 other

**Grade Mode:** Standard Letter

**PH 40112 INSTITUTIONAL AND RECREATIONAL ENVIRONMENTAL, OCCUPATIONAL HEALTH AND SAFETY 3 Credit Hours**

Introduces the environmental and occupational health and safety issues unique to institutional settings and licensed facilities; such as, hospitals, nursing homes, K-12 schools, universities, R&D, correctional facilities, and childcare facilities; and in various recreational environments, such as swimming pools, spas, bathing beaches, marinas, campgrounds, playgrounds and natural areas.

**Prerequisite:** PH 30006.

**Schedule Type:** Field Experience, Lecture

**Contact Hours:** 2.67 lecture, .33 other

**Grade Mode:** Standard Letter

**PH 40191 SEMINAR IN PUBLIC HEALTH 1-3 Credit Hours**

(Repeatable for credit) Seminar on current and important topics in public health. Subject matter varies depending on topic.

**Prerequisite:** None.

**Schedule Type:** Seminar

**Contact Hours:** 1-3 other

**Grade Mode:** Standard Letter

**PH 40195 SPECIAL TOPICS IN PUBLIC HEALTH 1-3 Credit Hours**

(Repeatable for credit) Subject varies depending on the emerging issue.

**Prerequisite:** Junior or senior standing.

**Schedule Type:** Lecture

**Contact Hours:** 1-3 lecture

**Grade Mode:** Standard Letter

**PH 40196 INDIVIDUAL INVESTIGATION IN PUBLIC HEALTH 1-3 Credit Hours**

(Repeatable for maximum 6 credits) Individual undergraduate investigation or research on specific public health issues.

**Prerequisite:** Junior or senior standing; and special approval.

**Schedule Type:** Individual Investigation

**Contact Hours:** 1-3 other

**Grade Mode:** Standard Letter

**PH 40200 THE BUILT ENVIRONMENT 3 Credit Hours**

Provides a basic understanding of the relationships between poor housing and environmental health and safety problems. It explores the physiological and psychological aspects of shelter. Students gain a basic understanding of housing codes, fire codes, zoning, and related regulatory issues. Students explore housing related health problems; such as, indoor air quality, mold, asbestos, lead paint, and radon. Manufactured housing parks and agricultural labor camp regulations are also reviewed. The role of EH in community planning is explored. Health issues with urban sprawl and community design problems, utility problems such as urban run-off and pest problems, and other issues are reviewed. Elements of healthy community, community planning and environmental protection are introduced; such as new urbanism, walkable communities programs, environmental building design, green communities, urban gardening and LEED's.

**Prerequisite:** PH 30006.

**Schedule Type:** Field Experience, Lecture

**Contact Hours:** 2.67 lecture, .33 other

**Grade Mode:** Standard Letter

**PH 41000 ENVIRONMENTAL AND OCCUPATIONAL HEALTH AND SAFETY MANAGEMENT 3 Credit Hours**

Entails leadership and management principles in environmental and occupational health and safety (EOHS), and helps students develop skills needed to become an effective supervisor. Issues such as regulatory structure, program and community planning, policy development, budgeting, staffing and staff development, strategic planning, training, professionalism and assessment are reviewed. Board development, dealing with difficult people and situations, legal, social, political, and economic effects on EOHS programs are dealt with. Related issues such as ethics, human resources, workers comp, court appearances, media relations and communications are reviewed.

**Prerequisite:** PH 30006 and 30102 and 30105 and 30106; and senior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PH 41092 FIELD EXPERIENCE IN MEETING THE BASIC HEALTH AND HUMAN NEEDS (ELR) 3 Credit Hours**

(Repeatable for credit) Provides practical skills in simple, affordable appropriate technologies that can offer solutions for meeting basic health and human needs in the developing world at the household and community levels. Technologies are organized into five modules: 1) food, agriculture, and nutrition; 2) water and sanitation; 3) alternative household energy; 4) primary health care; and 5) community development needs and resource assessment. All five modules cover appropriate technologies that while meeting the basic needs have significant impact on health of the individuals and communities. Principles of participatory community development and sensitivity to cross-cultural, gender, and ecological issues are emphasized throughout the training.

**Prerequisite:** Special approval.

**Schedule Type:** Field Experience

**Contact Hours:** 8 other

**Grade Mode:** Satisfactory/Unsatisfactory

**Attributes:** Experiential Learning Requirement



**PH 42092 ENVIRONMENTAL, OCCUPATIONAL, HEALTH AND SAFETY INTERNSHIP (ELR) 4-6 Credit Hours**

The purpose of the environmental and occupational health and safety internship is to supplement the student in-class learning experiences with practical hand-on skills and work practice experiences that helps them develop the environmental competencies required for success in the field.

**Prerequisite:** Junior or senior standing; and special approval.

**Schedule Type:** Practical Experience

**Contact Hours:** 13.33-20 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**Attributes:** Experiential Learning Requirement

**PH 43014 PUBLIC HEALTH AND MASS INCARCERATION 3 Credit Hours**

This course will examine incarceration using a public health lens. Students will examine the epidemiology of mass incarceration in the U.S., infectious and chronic diseases of those incarcerated, incarceration as a self-sustaining epidemic with generations of imprisonment, access to health care of those behind bars and on release, and the contagion of punishment including collateral damage to children, families and neighborhoods. The course will conclude with a public health model for ending mass incarceration.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PH 43089 PLAGUES THAT SHAPED THE WORLD 3 Credit Hours**

(Cross-listed with EPI 53089 and and EPI 73089) Course examines the Bubonic plague, HIV/AIDS, Ebola and pandemic influenza outbreaks to introduce students to the fundamentals of public health, establishing epidemiological principles that explain how plagues erupt and propagate, decimate populations and alter cultures. Inherent in the course's discussion are the social determinants that fuel plague outbreaks and slow recovery. Examples of emerging infectious diseases and threats of bioterrorism are discussed as new plagues for which creative solutions are still required. Students take city excursions and a field trip to assess cultural changes resulting from historical plagues.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PH 43092 INTERNSHIP IN CLINICAL TRIALS RESEARCH (ELR) 3-6 Credit Hours**

The internship will place students in a clinical trials setting (e.g., contract research organization, hospital, or academic setting) where they can gain hands on experience conducting clinical trials and clinical research. The internship is 300 hours and can be taken in the last one to two semesters. The purpose of the internship is to provide the student with practical experiences that will make them marketable for a position in clinical research upon graduation.

**Prerequisite:** PH 40013 and PH 40014.

**Schedule Type:** Practical Experience

**Contact Hours:** 3-6 other

**Grade Mode:** Satisfactory/Unsatisfactory

**Attributes:** Experiential Learning Requirement

**PH 44000 HEALTH DISPARITIES (DIVD) (WIC) 3 Credit Hours**

Understanding the factors involved in health disparities at the national and global level, and the impact of health disparities on public health.

**Prerequisite:** ENG 21011 or HONR 10297; and 21 credit hours of public health courses; and junior or senior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Diversity Domestic, Writing Intensive Course

**PH 44002 GLOBAL HEALTH IMMERSION: GENEVA, SWITZERLAND 3 Credit Hours**

Participants explore a number of health concerns, policies and challenges with global importance and implications. Students investigate current global health policies and themes, and become familiar with the major players in global health including governmental and nongovernmental organizations and multinational agencies. Presentations are given by experts currently working in various regions of the world to solve such pressing global problems as HIV/AIDS, post-war trauma, tuberculosis, refugee health, non-communicable disease prevention and environmental contamination.

**Prerequisite:** PH 10001 and PH 10002; and junior or senior standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PH 44003 ENVIRONMENTAL HEALTH ISSUES IN LOW- AND MIDDLE-INCOME COUNTRIES 3 Credit Hours**

Covers the important environmental health issues of concerns in low- and middle-income countries and appropriate intervention strategies. Topics include clean drinking water and sanitation, indoor air pollution, outdoor air pollution, environmental management, sustainability and health.

**Prerequisite:** Public health or anthropology major; and junior or senior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PH 44004 GLOBAL HEALTH IMMERSION: LATIN AMERICA 3 Credit Hours**

The principal objective of this summer intersession course is to immerse students into the history, culture and public health systems of Latin American countries Colombia Ecuador. Students will have the opportunity to visit major cities, i.e., Cali, Colombia, and Quito, Ecuador, rural areas, and well-known tourist destinations (Cartagena, Colombia, Otavalo, Ecuador). Students will gain an understanding of current scientific research on tropical diseases of local public health relevance, such as malaria. The course will focus on the basic biology of disease, mechanisms of transmission (epidemiology), and efforts to develop vaccines against malaria. The course is designed primarily for sophomores, juniors and seniors who are public health, nursing, or biological science majors. Master's level students will also be accepted. Knowledge of basic Spanish language is useful but not necessary.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PH 44005 LEGAL ASPECTS OF HEALTH SERVICES MANAGEMENT 3 Credit Hours**

Provides an overview of legal and regulatory essentials in health services management. Provides a historical perspective on legal aspects of health care as well as an introduction to law, tort law, criminal aspects, contracts, civil procedure and trial practice as related to health care. Students examine how liability impacts corporate structures, health departments and health care professionals and examine issues related to patient consent, legal reporting requirements, labor relations and patient rights.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PH 44010 PUBLIC HEALTH PLANNING AND FINANCE 3 Credit Hours**

Introduces students to business planning of health services. Students obtain skills in public health financial decision-making, including general principles of public health accounting, budgeting and financial planning.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PH 44015 PUBLIC HEALTH MANAGEMENT 3 Credit Hours**

Provides an overview of management and leadership concepts, principles and practice as applied to public health management. Students learn basic skills in team-building, developing board relationships, strategic planning, fiscal management, marketing, conflict resolution and negotiation in healthcare management. Coursework integrates principles of ethics and professionalism, effective communication, managing complex and culturally diverse workplaces and the changing role of public health managers.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PH 44020 PUBLIC HEALTH ETHICS IN PRACTICE, POLICY AND RESEARCH 3 Credit Hours**

Provides an introduction to public health ethics, including the key foundations, concepts and frameworks for evaluating ethical issues in the public health setting.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PH 44025 PRINCIPLES OF PUBLIC HEALTH LEADERSHIP 3 Credit Hours**

Designed to introduce students to skill-sets and leadership practices necessary for successful public health leadership, with an emphasis on leading positive and sustainable change in real world situations. It also familiarizes students with key aspects of partnership building and advocacy for the purposes of improving health. Particular skills include coalition/partnership development, health advocacy, team building, mentoring and leadership.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PH 44092 INTERNSHIP IN PUBLIC HEALTH (ELR) 3-6 Credit Hours**

(Repeatable for credit) Capstone internship experience in a public health setting under the supervision of a site preceptor and university supervisor. Students gain experience in public health work.

**Prerequisite:** Senior standing; and special approval.

**Schedule Type:** Practical Experience

**Contact Hours:** 3-6 other

**Grade Mode:** Satisfactory/Unsatisfactory

**Attributes:** Experiential Learning Requirement

**PH 45092 SERVICE LEARNING PRACTICUM IN COMMUNITY-BASED PUBLIC HEALTH (ELR) 3 Credit Hours**

This course is designed to provide an opportunity for students to engage in a variety of public health settings under the supervision of faculty.

The practicum experience is focused on developing skills needed to implement change to improve population health, providing a setting in which students may integrate and apply the skills and knowledge acquired through their coursework. Students will be exposed to some of the benefits and challenges encountered by public health professionals on a routine basis.

**Prerequisite:** Junior or senior standing.

**Corequisite:** PH 35001.

**Schedule Type:** Lecture, Practical Experience

**Contact Hours:** 1 lecture, 6 other

**Grade Mode:** Standard Letter

**Attributes:** Experiential Learning Requirement

**PH 49000 CAPSTONE EXPERIENCE IN PUBLIC HEALTH (ELR) 3 Credit Hours**

Case studies of various strategies used in addressing various public health issues are discussed within an evaluative framework.

**Prerequisite:** 21 credit hours of public health courses; and junior or senior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Experiential Learning Requirement

**PH 60172 PRACTICUM SEMINAR IN PUBLIC HEALTH 1 Credit Hour**

(Repeatable 6 times for credit) Seminar component of the Practicum Experience; course must be taken at the same time as the Practicum Experience; students prepare a final portfolio and seminar presentation integrating theory and practice.

**Prerequisite:** Graduate standing.

**Corequisite:** PH 60192.

**Schedule Type:** Lecture

**Contact Hours:** 1 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**PH 60192 PRACTICUM EXPERIENCE 5 Credit Hours**

(Repeatable for credit) Observational and participation in public health activities of a public health agency, hospital or other approved organization. The student completes the field experience with joint supervision from the university and approved organization or agency.

**Prerequisite:** Graduate standing.

**Corequisite:** PH 60172.

**Schedule Type:** Practical Experience

**Contact Hours:** 20 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**PH 80199 DISSERTATION I 15 Credit Hours**

(Repeatable for credit) Registration for two semesters required, first semester dissertation work begins and continues until completion of 30 hours.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Dissertation

**Contact Hours:** 15 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**PH 80299 DISSERTATION II 15 Credit Hours**

(Repeatable for credit) Continuing registration required of doctoral students who have completed the initial 30 hours of dissertation and continuing until degree requirements are met.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Dissertation

**Contact Hours:** 15 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

## Radiologic and Imaging Science (RIS)

**RIS 34001 INTRODUCTION TO DIAGNOSTIC MEDICAL SONOGRAPHY 1 Credit Hour**

Provides an introduction to diagnostic medical sonography. The course orients new students to the profession. Topics covered include basic sonographic principles, scanning technique, and introduction patient management techniques.

**Prerequisite:** Special approval.

**Schedule Type:** Lecture

**Contact Hours:** 1 lecture

**Grade Mode:** Standard Letter

**RIS 34003 RADIATION THERAPY PRINCIPLES AND PRACTICE I 3 Credit Hours**

An overview of cancer, radiation therapy and its physical and technical aspects. Includes the roles/responsibilities of the therapist, treatment parameters, documentation and delivery of patient care, education and procedures.

**Prerequisite:** Radiologic and imaging sciences major.

**Corequisite:** RIS 34030.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter-IP

**RIS 34004 RADIATION THERAPY PATIENT MANAGEMENT 3 Credit Hours**

Provides the basic concepts in patient assessment and evaluation. Includes communication skills, infection control, nutrition, medications, exams, emergencies, patient transfer techniques, medical ethics and law as applied to radiation therapy.

**Prerequisite:** Radiologic and imaging sciences major.

**Corequisite:** RIS 34030.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter-IP

**RIS 34008 RADIATION THERAPY PHYSICS I 3 Credit Hours**

Introduction to radiation therapy physics, including the fundamentals of atomic structure, radiation properties, radiation production, radiation quality, interactions of radiation with matter and principles of radiation detectors.

**Prerequisite:** Radiologic and imaging sciences major.

**Corequisite:** RIS 34030.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**RIS 34030 RADIATION THERAPY CLINICAL EDUCATION I 1 Credit Hour**

Observation and supervised clinical education with emphasis on administering radiation therapy treatments and patient care.

**Prerequisite:** Radiologic and imaging sciences major; and special approval.

**Schedule Type:** Clinical Laboratory, Laboratory

**Contact Hours:** 2.5 lab, 5 other

**Grade Mode:** Standard Letter-IP

**RIS 34040 PATIENT MANAGEMENT IN DIAGNOSTIC MEDICAL SONOGRAPHY 3 Credit Hours**

Methods of patient management in diagnostic medical sonography are examined with emphasis on patient communication, clinical assessment, medical legal aspects, medical records, emergencies, pharmacology, safety issues, ethics and critical thinking.

**Prerequisite:** Radiologic and imaging sciences major.

**Corequisite:** RIS 34045.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**RIS 34042 ABDOMINAL SONOGRAPHY I 3 Credit Hours**

Anatomy, physiology and pathology of the abdomen; instrumentation and scanning techniques; normal and abnormal sonographic appearances of abdominal structures will be presented.

**Prerequisite:** Radiologic and imaging sciences major.

**Corequisite:** RIS 34045.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**RIS 34044 ULTRASOUND PHYSICS AND INSTRUMENTATION 3 Credit Hours**

Ultrasound principles to include interaction of sound with matter, propagation of sound in tissue, physical units, transducer parameters, image storage and display, quality assurance, bioeffects, image artifacts and physical principles of doppler.

**Prerequisite:** Radiologic and imaging sciences major.

**Corequisite:** RIS 34045.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**RIS 34045 ULTRASOUND CLINICAL EDUCATION I 2 Credit Hours**

Provides clinical education and experience at a lab and clinical site to allow students the opportunity to practice skills necessary to obtain high quality sonographic images, to alter protocols on patients and to identify image quality problems. Content includes sonography of the liver, gallbladder, pancreas and spleen.

**Prerequisite:** Radiologic and imaging sciences major; and special approval.

**Schedule Type:** Clinical Laboratory, Laboratory

**Contact Hours:** 3 lab, 1 other

**Grade Mode:** Standard Letter-IP

**RIS 34052 ABDOMINAL SONOGRAPHY II 3 Credit Hours**

Continuation of RIS 34042; anatomy, physiology and pathology of the abdomen; instrumentation and sonographic scanning techniques; normal and abnormal sonographic appearance of abdominal structures will be presented.

**Prerequisite:** RIS 34042; and radiologic and imaging sciences major.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**RIS 34060 ULTRASOUND CLINICAL EDUCATION II 4 Credit Hours**

Provides clinical education and experience at a clinical site to allow students the opportunity to practice skills necessary to obtain high quality sonographic images, to alter protocols based on patients and to identify image quality problems. Content includes sonography of the abdominal vessels, kidneys, adrenal glands, lymphatics and gynecologic pelvis.

**Prerequisite:** RIS 34045.

**Corequisite:** RIS 34052.

**Schedule Type:** Clinical Laboratory, Laboratory

**Contact Hours:** 3 lab, 5 other

**Grade Mode:** Standard Letter-IP

**RIS 34062 OBSTETRICS AND GYNECOLOGY SONOGRAPHY I 3 Credit Hours**

Anatomy and pathophysiology of the non-pregnant female pelvis; instrumentation and scanning techniques; normal and abnormal sonographic appearances; and findings of the female reproductive tract are covered.

**Prerequisite:** RIS 34045; and radiologic and imaging sciences major.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**RIS 34072 SUPERFICIAL STRUCTURES SONOGRAPHY 2 Credit Hours**

Anatomy and pathophysiology of superficial structures; instrumentation and scanning techniques; normal and abnormal sonographic appearances of superficial structures; correlation with laboratory findings and other imaging modalities are presented. Introductory pediatric sonographic techniques and pathology are presented.

**Prerequisite:** RIS 34083.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**RIS 34075 ULTRASOUND CLINICAL EDUCATION III 2 Credit Hours**

Provides clinical education and experience at clinical sites to allow students the opportunity to practice skills necessary to obtain high quality sonographic images, to alter protocols based on patients and to evaluate image quality. Content includes first, second and third trimester obstetric sonography and superficial structures sonography.

**Prerequisite:** RIS 34062.

**Corequisite:** RIS 44072.

**Schedule Type:** Clinical Laboratory, Laboratory

**Contact Hours:** 2 lab, 12 other

**Grade Mode:** Standard Letter-IP

**RIS 34083 SECTIONAL ANATOMY IN MEDICAL IMAGING 3 Credit Hours**

Presentation of sectional anatomy of the body in the transverse (axial), sagittal and coronal planes as seen in medical images in CT, MRI and diagnostic medical sonography.

**Prerequisite:** BSCI 11010 and BSCI 11020; or BSCI 21010 and BSCI 21020; and radiologic and imaging sciences major.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**RIS 34084 COMPUTED TOMOGRAPHY AND MAGNETIC RESONANCE IMAGING SECTIONAL ANATOMY I 2 Credit Hours**

Presentation of sectional anatomy of the human body in computed tomography and magnetic resonance imaging. Includes orientation of organs and structures and pathological processes present in images.

**Prerequisite:** Radiologic and imaging sciences major; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**RIS 34086 COMPUTED TOMOGRAPHY AND MAGNETIC RESONANCE IMAGING SECTIONAL ANATOMY II 2 Credit Hours**

Presentation of sectional anatomy of the human body in computed tomography and magnetic resonance imaging. Includes orientation of organs and structures and pathological processes present in images as seen in the extremities.

**Prerequisite:** RIS 34084; and radiologic and imaging sciences major.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**RIS 41095 SPECIAL TOPICS IN RADIOLOGIC AND IMAGING SCIENCES 1-3 Credit Hours**

(Repeatable for credit) Courses will consist of various topics in medical imaging designed to enhance learning outcomes.

**Prerequisite:** Radiologic and imaging sciences major.

**Schedule Type:** Lecture

**Contact Hours:** 1-3 lecture

**Grade Mode:** Standard Letter-IP

**RIS 44000 INTRODUCTION TO RADIATION THERAPY 2 Credit Hours**

An introduction to patient care techniques and clinical procedures for freshman entry students admitted to the RIS major in radiation therapy.

**Prerequisite:** Radiologic and imaging sciences major.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**RIS 44003 MAGNETIC RESONANCE IMAGING CLINICAL EDUCATION I 2 Credit Hours**

Students observe and become acquainted with MRI equipment and procedures at the clinical education setting and apply knowledge of physics, MRI safety and patient care. Students begin to perform some procedures under direct supervision of MRI technologists. Students attend clinicals 15 hours per week.

**Prerequisite:** Radiologic and imaging sciences major; and special approval.

**Schedule Type:** Clinical Laboratory, Laboratory

**Contact Hours:** 5 lab, 10 other

**Grade Mode:** Standard Letter-IP

**RIS 44004 COMPUTED TOMOGRAPHY CLINICAL EDUCATION I 2 Credit Hours**

Provides clinical education and experience at a clinical setting to allow the student the opportunity to become proficient in skills necessary to obtain quality images, to alter protocols based on patient pathology or physical condition, and to identify image quality problems and to make appropriate corrections under direct supervision of a CT Technologist.

**Prerequisite:** Radiologic and imaging sciences major; and special approval.

**Schedule Type:** Clinical Laboratory, Laboratory

**Contact Hours:** 5 lab, 10 other

**Grade Mode:** Standard Letter-IP

**RIS 44009 RADIATION THERAPY PRINCIPLES AND PRACTICE II 2 Credit Hours**

Examines the multidisciplinary treatment approaches. Consists of advanced topics in therapy, chemotherapy, immunotherapy, and surgery for combined modalities, for benign conditions, for emergencies and for managing side effects.

**Prerequisite:** RIS 34003.

**Corequisite:** RIS 44053.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**RIS 44018 RADIATION THERAPY PHYSICS II 3 Credit Hours**

Continuation of the principles of radiation therapy physics and the study of photon beam dosimetry, electron beam dosimetry and treatment planning.

**Prerequisite:** RIS 34008.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter-IP

**RIS 44021 PATIENT MANAGEMENT IN COMPUTED TOMOGRAPHY 2 Credit Hours**

Provides knowledge about care-giving skills for patients undergoing CT exams. Information includes effective communication, problem-solving techniques, patient safety/comfort, patient preparation, monitoring, contrast agents and venipuncture.

**Prerequisite:** Radiologic and imaging sciences major.

**Corequisite:** RIS 44004.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**RIS 44028 RADIATION THERAPY RADIOBIOLOGY 3 Credit Hours**

Establishes a foundation in radiation biology for radiation therapy. Cell biology and its response to radiation are reviewed as well as the effect of radiation on pathology and body systems.

**Prerequisite:** RIS 44018.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter-IP

**RIS 44029 RADIATION THERAPY PATHOLOGY I 3 Credit Hours**

General overview of various disease processes with emphasis on cancer types. Includes epidemiology, etiology, symptoms, metastases, histology, tumor grading, staging, detection, screening and diagnosis, treatment, side effects and prognosis of malignancies of the head and neck, central nervous, respiratory, digestive, and female reproductive systems.

**Prerequisite:** RIS 34003 and RIS 34083.

**Corequisite:** RIS 44053.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**RIS 44030 COMPUTED TOMOGRAPHY IMAGE PRODUCTION I 2 Credit Hours**

Computer fundamentals, operations and applications of CT equipment. Principles of CT system operation and components, image processing and display and image quality.

**Prerequisite:** Radiologic and imaging sciences major.

**Corequisite:** RIS 44004.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**RIS 44031 PATIENT MANAGEMENT IN MAGNETIC RESONANCE IMAGING 2 Credit Hours**

Provides information on the role of the MRI technologist in maintaining patient safety and comfort as well as personal and co-worker safety. MR contrast agents and venipuncture will be studied. Includes problem solving with diverse patient types.

**Prerequisite:** Radiologic and imaging sciences major.

**Corequisite:** RIS 44003.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**RIS 44038 RADIATION THERAPY PHYSICS III 3 Credit Hours**

Covers concepts of radioactivity and brachytherapy. Describes specialized treatment units Discussion of human resource, therapy department budgets and billing, accreditation, certification, professional societies.

**Prerequisite:** RIS 44018.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**RIS 44041 RADIATION THERAPY QUALITY MANAGEMENT 2 Credit Hours**

Provides overview of quality management programs and continuing quality improvement in radiation therapy. Topics include validity of quality assurance checks, chart checks, image checks, testing on simulators, linear accelerators and brachytherapy sources.

**Prerequisite:** RIS 44018.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter-IP



**RIS 44042 RADIATION THERAPY PATHOLOGY II 3 Credit Hours**

Continuation of Radiation Therapy Pathology I to include epidemiology, etiology, symptoms, metastases, histology, tumor grading, staging, detection, screening and diagnosis, treatment, side effects and prognosis of malignancies of the male reproductive, urinary, endocrine, circulatory, lymphatic, integumentary and musculoskeletal systems as well as pediatric solid malignancies.

**Prerequisite:** RIS 34083 and RIS 44029.

**Corequisite:** RIS 44056.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**RIS 44043 RADIATION THERAPY PRINCIPLES/PRACTICE III 3 Credit Hours**

Review and testing of major subject areas from all radiation therapy courses to prepare students to successfully pass the national certification exam based on the content specifications from the American Registry of Radiologic Technologists (ARRT).

**Prerequisite:** RIS 44009 and RIS 44018 and RIS 44028 and RIS 44042.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**RIS 44044 MAGNETIC RESONANCE IMAGING PROCEDURES I 2 Credit Hours**

Provides the imaging techniques related to the body, special clinical applications, coil selection, scan sequences, protocols, positioning criteria, normal and abnormal anatomical and pathologic structures and signal characteristics for all areas of the body except extremities and vascular areas.

**Prerequisite:** Radiologic and imaging science major.

**Corequisite:** RIS 44003.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**RIS 44045 MAGNETIC RESONANCE IMAGING PROCEDURES II 2 Credit Hours**

Provides the imaging techniques related to the body, special clinical applications, coil selection, scan sequences, protocols, positioning criteria, normal and abnormal anatomical and pathologic structures and signal characteristics for the extremities and vascular areas.

**Prerequisite:** RIS 44044; and radiologic and imaging science major.

**Corequisite:** RIS 44063.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**RIS 44047 COMPUTED TOMOGRAPHY PROCEDURES I 2 Credit Hours**

Introduction to CT procedures with scanning protocols, positioning and non-contrast anatomy.

**Prerequisite:** Radiologic and imaging science major.

**Corequisite:** RIS 44004.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**RIS 44048 COMPUTED TOMOGRAPHY PROCEDURES II 2 Credit Hours**

Overview of the procedures presented in CT Procedures I course, anatomy as seen on scans both with and without contrast media, advanced processing, and advanced imaging procedures.

**Prerequisite:** RIS 44047.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**RIS 44051 MAGNETIC RESONANCE EQUIPMENT AND IMAGE ACQUISITION I 2 Credit Hours**

Develops and understanding of the physics of MR image acquisition and the hardware used. Provides information in the use and manipulation of the instrumentation and technical parameters used in the generation of images. Establishes safety procedures.

**Prerequisite:** Radiologic and imaging science major.

**Corequisite:** RIS 44003.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**RIS 44052 MAGNETIC RESONANCE EQUIPMENT AND IMAGE ACQUISITION II 2 Credit Hours**

Develops an understanding of MR image acquisition and the hardware used. Provides information in the use and manipulation of the hardware and technical parameters used in the generation of images. Reviews safety special applications such as advanced imaging techniques. Enables the student to maximize MR image quality.

**Prerequisite:** RIS 44051; and radiologic and imaging science major.

**Corequisite:** RIS 44063.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**RIS 44053 RADIATION THERAPY CLINICAL EDUCATION II 3 Credit Hours**

Continuation of Clinical Education I with emphasis on clinical practice of treatment techniques and planning.

**Prerequisite:** RIS 34030.

**Schedule Type:** Clinical Laboratory, Laboratory

**Contact Hours:** 7.5 lab, 15 other

**Grade Mode:** Standard Letter-IP

**RIS 44054 COMPUTED TOMOGRAPHY CLINICAL EDUCATION II 2 Credit Hours**

Provides continued clinical education and experience at a clinical setting to allow the student the opportunity to become proficient in skills necessary to obtain quality images, to alter protocols based on patient pathology or physical condition, and to identify image quality problems and to make appropriate corrections under direct supervision of a CT Technologist. Student attends clinical education setting for 15 hours per week for 15 weeks.

**Prerequisite:** RIS 44004.

**Schedule Type:** Clinical Laboratory, Laboratory

**Contact Hours:** 5 lab, 10 other

**Grade Mode:** Standard Letter-IP

**RIS 44058 RADIATION THERAPY CLINICAL EDUCATION III 2 Credit Hours**

Continuation of Clinical Education II with added emphasis on critical thinking, problem solving and clinical competency.

**Prerequisite:** RIS 44053.

**Schedule Type:** Clinical Laboratory, Laboratory

**Contact Hours:** 5 lab, 10 other

**Grade Mode:** Standard Letter-IP

**RIS 44062 COMPUTED TOMOGRAPHY IMAGE PRODUCTION II 2 Credit Hours**

A continuation from Physical Principles of CT I, the course reviews basic CT components, operations and applications with advanced studies in post-processing techniques and image quality, while understanding the importance of radiation dose and quality control in CT.

**Prerequisite:** RIS 44030.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**RIS 44063 MAGNETIC RESONANCE IMAGING CLINICAL EDUCATION II 2 Credit Hours**

Continuation of MRI Clinical Education I. Students apply knowledge of patient care, anatomy and pathology, equipment and image acquisition when observing and performing MRI procedures clinically. Students attend the clinical education setting for 15 hours per week.

**Prerequisite:** RIS 44003.

**Schedule Type:** Clinical Laboratory, Laboratory

**Contact Hours:** 5 lab, 10 other

**Grade Mode:** Standard Letter-IP

**RIS 44066 MAGNETIC RESONANCE IMAGING TECHNIQUES 2 Credit Hours**

Integrates concepts of MRI including patient care, imaging procedures, data acquisition and processing as well as principles of image formation for review for the national certification exam in magnetic resonance imaging.

**Prerequisite:** RIS 44063; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**RIS 44067 RADIATION THERAPY CLINICAL EDUCATION IV 3 Credit Hours**

Continuation of Clinical Education III with added emphasis on critical thinking, problem solving and clinical competency.

**Prerequisite:** RIS 44058.

**Schedule Type:** Clinical Laboratory, Laboratory

**Contact Hours:** 2 lecture, 7.5 lab, 15 other

**Grade Mode:** Standard Letter-IP

**RIS 44068 COMPUTED TOMOGRAPHY TECHNIQUES 2 Credit Hours**

Students will review knowledge in each content area of the national certification exam in CT including patient management, imaging procedures, and physics and instrumentation.

**Prerequisite:** RIS 44054; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**RIS 44069 COMPUTED TOMOGRAPHY CLINICAL EDUCATION III 1 Credit Hour**

Allows students to advance clinical education skills and experiences at a clinical setting in order to obtain quality images, objectively alter protocols based on patient pathology or physical condition, and to identify image quality problems and to make appropriate corrections under the direct supervision of a CT Technologist. Student will attend a clinical education site for 10 days during the semester.

**Prerequisite:** RIS 44054.

**Schedule Type:** Clinical Laboratory, Laboratory

**Contact Hours:** 2.5 lab, 5 other

**Grade Mode:** Standard Letter-IP

**RIS 44072 OBSTETRICS AND GYNECOLOGY SONOGRAPHY II 3 Credit Hours**

Embryonic and fetal development throughout gestation; fetal measurements, normal fetal anatomy and physiology; and abnormal sonographic appearances of the fetus will be covered as well as invasive obstetric procedures and antepartum testing.

**Prerequisite:** RIS 34062.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**RIS 44073 MAGNETIC RESONANCE IMAGING CLINICAL EDUCATION III 1 Credit Hour**

Continuation of Clinical Education II with student advancing skills and proficiency in performing MRI procedures in the clinical setting and are able to solve problems in a more independent manner. Students will complete 10 clinical days throughout the term.

**Prerequisite:** RIS 44063.

**Schedule Type:** Clinical Laboratory, Laboratory

**Contact Hours:** 2.5 lab, 5 other

**Grade Mode:** Standard Letter-IP

**RIS 44074 VASCULAR SONOGRAPHY 2 Credit Hours**

Anatomy, physiology and hemodynamics of the cerebrovascular, abdominal and peripheral vascular systems; normal and abnormal sonographic vascular appearances; Doppler instrumentation and scanning techniques are covered.

**Prerequisite:** Radiologic and imaging science major.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**RIS 44076 ULTRASOUND CLINICAL EDUCATION IV 4 Credit Hours**

Provides clinical education and experience at a clinical site to allow students the opportunity to practice skills necessary to obtain high quality sonographic images, to alter protocols based on patients and to identify image quality problems. Content includes abdominal, pelvic, obstetrical, superficial structure and vascular sonography.

**Prerequisite:** RIS 34075.

**Corequisite:** RIS 44074.

**Schedule Type:** Clinical Laboratory, Laboratory

**Contact Hours:** 4 lab, 24 other

**Grade Mode:** Standard Letter-IP

**RIS 44078 SONOGRAPHIC TECHNIQUES 3 Credit Hours**

Course integrates diagnostic medical sonography concepts in preparation for certification exams.

**Prerequisite:** RIS 34044 and 34052 and 44072.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**RIS 44083 PATHOPHYSIOLOGY FOR MEDICAL IMAGING 3 Credit Hours**

Provides students with basic information on the causes of disease and the body's response to disease, as well as the medical imaging modalities that will demonstrate them.

**Prerequisite:** RIS 34045 or RIS 44003 or RIS 44004; and radiologic and imaging science major.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**RIS 44084 ULTRASOUND IMAGE EVALUATION 1 Credit Hour**

Presentation of sonographic findings in specific disease processes, with evaluation of image quality and emphasis on diagnostic features of pathologic entities.

**Prerequisite:** Radiologic and imaging science major.

**Schedule Type:** Lecture

**Contact Hours:** 1 lecture

**Grade Mode:** Standard Letter

**RIS 44088 LEADERSHIP IN MEDICAL IMAGING 1 Credit Hour**

An introduction to the key strategies needed for success in health care leadership positions for both new and seasoned professionals. Includes supervision skills, competent communication, employment law, performance coaching, quality standards, accreditation and regulations, budgeting and finance, project management, leadership skills and health economics.

**Prerequisite:** Special approval.

**Schedule Type:** Lecture

**Contact Hours:** 1 lecture

**Grade Mode:** Standard Letter

**RIS 44096 INDIVIDUAL INVESTIGATION IN MEDICAL IMAGING DIRECTED READINGS 3 Credit Hours**

(Repeatable for credit) Students are assigned prescribed number of medical imaging journal articles, completes post test and submits a summary paper and online discussions.

**Prerequisite:** Radiologic and imaging science major; and special approval.

**Schedule Type:** Individual Investigation

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**RIS 44098 RESEARCH IN MEDICAL IMAGING (ELR) (WIC) 3 Credit Hours**

Fundamental concepts and procedures for systematic collection, analysis critique and application of qualitative and quantitative data in medical imaging.

**Prerequisite:** RIS 34030 or RIS 34045 or RIS 44003 or RIS 44004; and radiologic and imaging science major.

**Schedule Type:** Research

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**Attributes:** Experiential Learning Requirement, Writing Intensive Course

## Radiologic Technology (RADT)

**RADT 14003 INTRODUCTION TO RADIOLOGIC TECHNOLOGY 2 Credit Hours**

Introduction to radiologic technology program, general anatomy, radiographic procedures, imaging equipment and techniques, radiation protection, professional organizations and clinical education.

**Prerequisite:** Admission to technical study; and radiologic technology major.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 1.5 lecture, .5 lab

**Grade Mode:** Standard Letter

**RADT 14005 CLINICAL EDUCATION I 1 Credit Hour**

Supervised observation and experience at the clinical education site with emphasis on clinical practice of basic skills of radiologic technology and the exams covered in Radiographic Procedures I (chest and abdomen). Student is assigned to the clinical education site for 15 hours per week for 7.5 weeks in summer.

**Prerequisite:** None.

**Corequisite:** None.

**Schedule Type:** Clinical Laboratory, Laboratory

**Contact Hours:** 2.5 lab, 5 other

**Grade Mode:** Standard Letter-IP

**RADT 14006 RADIOGRAPHIC PROCEDURES I 1 Credit Hour**

Introduction to radiographic procedures and positioning of the chest and abdomen.

**Prerequisite:** None.

**Schedule Type:** Laboratory

**Contact Hours:** 2 lab

**Grade Mode:** Standard Letter

**RADT 14015 CLINICAL EDUCATION II 3 Credit Hours**

Continuation of Clinical Education I with emphasis on skeletal radiography that includes upper and lower extremities, shoulder and pelvic girdles, vertebral spine and bony thorax. Student is assigned to the clinical site 22.5 hours per week.

**Prerequisite:** RADT 14005 and 14006.

**Schedule Type:** Clinical Laboratory, Laboratory

**Contact Hours:** 7.5 lab, 15 other

**Grade Mode:** Standard Letter-IP

**RADT 14018 IMAGING EQUIPMENT 2 Credit Hours**

A study of the equipment used in radiographic imaging including x-ray tubes, x-ray filters, beam restrictors, grids, image receptors, fluoroscopic and mobile equipment and methods of quality control.

**Prerequisite:** None.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 1.8 lecture, .2 lab

**Grade Mode:** Standard Letter

**RADT 14021 RADIOGRAPHIC PROCEDURES II 4 Credit Hours**

Radiographic anatomy, positioning and image evaluation of the upper extremities, shoulder girdle, lower extremities, pelvic girdle, vertebral spine and bony thorax.

**Prerequisite:** None.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 3 lecture, 2 lab

**Grade Mode:** Standard Letter

**RADT 14024 RADIOGRAPHIC PROCEDURES III 4 Credit Hours**

Radiographic anatomy, positioning, procedures and image evaluation of the gastrointestinal, biliary and urinary systems and skull and facial bones positioning.

**Prerequisite:** BSCI 11010 or ATTR 25057 or EXSC 25057; and RADT 14021.

**Corequisite:** RADT 14025.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 3 lecture, 2 lab

**Grade Mode:** Standard Letter

**RADT 14025 CLINICAL EDUCATION III 3 Credit Hours**

Continuation of Clinical Education II with emphasis on clinical practice of previous course content plus digestive, biliary and urinary procedures as well as skull and facial bones positioning. Student assigned to clinical education setting 22.5 hours per week.

**Prerequisite:** RADT 14015.

**Corequisite:** RADT 14024.

**Schedule Type:** Clinical Laboratory, Laboratory

**Contact Hours:** 7.5 lab, 15 other

**Grade Mode:** Standard Letter-IP

**RADT 14034 IMAGE ACQUISITION AND PROCESSING 2 Credit Hours**

Study of the technical factors and process of image acquisition, factors affecting image quality, processing of digital images and data management.

**Prerequisite:** RADT 14018.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 1 lecture, 2 lab

**Grade Mode:** Standard Letter

**RADT 14085 CLINICAL EDUCATION IV 2 Credit Hours**

Continuation of Clinical Education III with emphasis on clinical practice of content in previous clinical courses. More emphasis on independent clinical practice of procedures previously mastered. Clinical and lab time is equivalent to 262.5 hours.

**Prerequisite:** RADT 14025.

**Schedule Type:** Clinical Laboratory, Laboratory

**Contact Hours:** 2.5 lab, 15 other

**Grade Mode:** Standard Letter-IP

**RADT 14096 INDIVIDUAL INVESTIGATION IN DIRECTED READINGS IN RADIOLOGIC TECHNOLOGY 3 Credit Hours**

(Repeatable for credit) Student selects prescribed number of medical journals, completes questions, paper and presentation.

**Prerequisite:** Special approval.

**Schedule Type:** Individual Investigation

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**RADT 21095 SPECIAL TOPICS IN RADIOLOGIC TECHNOLOGY 2-4 Credit Hours**

(Repeated registration permitted) Student participation course on topics pertinent to radiologic technology. Topics are chosen by the instructor. Student may enroll in course more than once.

**Prerequisite:** Special approval from instructor.

**Schedule Type:** Lecture

**Contact Hours:** 2-4 lecture

**Grade Mode:** Standard Letter

**RADT 24008 RADIOBIOLOGY AND RADIATION PROTECTION 3 Credit Hours**

Biological aspects of radiation, radiation interaction with matter, minimizing patient radiation exposure, and personnel protection are topics covered.

**Prerequisite:** BSCI 11010 and BSCI 11020, or BSCI 21010 and BSCI 21020, or ATTR 25057 and ATTR 25058, or EXSC 25057 and EXSC 25058; and RADT 14003.

**Corequisite:** RADT 24015.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**RADT 24015 CLINICAL EDUCATION V 3 Credit Hours**

Continuation of Clinical Education IV with emphasis on clinical practice of content of previous clinical courses. More emphasis on independent clinical practice previously mastered. Students assigned to clinical education setting 22.5 hours per week and rotates to special medical imaging areas.

**Prerequisite:** None.

**Corequisite:** AHS 24014.

**Schedule Type:** Clinical Laboratory, Laboratory

**Contact Hours:** 7.5 lab, 15 other

**Grade Mode:** Standard Letter-IP

**RADT 24016 IMAGING PHYSICS 3 Credit Hours**

Introduction to general physics, units and measurement, atomic structure, electromagnetic energy, x-ray production, electrostatics, magnetism and electromagnetic devices, x-ray tube and x-ray circuitry.

**Prerequisite:** RADT 14018.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**RADT 24025 CLINICAL EDUCATION VI 3 Credit Hours**

Continuation of Clinical Education V with emphasis on mastery of clinical procedures. Students assigned to clinical education site 22.5 hours per week.

**Prerequisite:** None.

**Schedule Type:** Clinical Laboratory, Laboratory

**Contact Hours:** 7.5 lab, 15 other

**Grade Mode:** Standard Letter-IP

**RADT 24048 RADIOGRAPHIC TECHNIQUES 3 Credit Hours**

Review of radiologic technology to include patient care, anatomy and physiology, radiologic procedures, equipment and image production, radiologic physics, and radiation protection in preparation for the radiography certification exam.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**RADT 24058 DIVERSIFIED EMPLOYMENT SKILLS 3 Credit Hours**

Course features multiple topics in medical imaging to prepare graduates for employment in healthcare.

**Prerequisite:** AHS 14016.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**RADT 24096 INDIVIDUAL INVESTIGATION IN RADIOLOGIC TECHNOLOGY 1 Credit Hour**

Directed research of special interest or need in the student's program. A research paper will be written on an assigned topic in radiologic technology.

**Prerequisite:** Admission to technical study; and RADT 14003 with a minimum C grade; and radiologic technology major.

**Schedule Type:** Individual Investigation

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**RADT 24196 INDIVIDUAL INVESTIGATION IN ADVANCED READINGS IN RADIOLOGIC TECHNOLOGY 3 Credit Hours**

(Repeatable for credit) Course permits scholarly activities for research, study and summary of medical journal articles. Information aids in understanding recent advancements in medical imaging.

**Prerequisite:** Admission to technical study; and radiologic technology major.

**Schedule Type:** Individual Investigation

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

## Real Estate and Related Technologies (RERT)

**RERT 11000 REAL ESTATE PRINCIPLES AND PRACTICES 3 Credit Hours**

Introduction to listing, selling, real estate math, legal descriptions of property and contracts.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**RERT 11001 REAL ESTATE LAW 3 Credit Hours**

Review of basic Ohio laws covering the functions of an agency and the legal aspects of real estate transactions.

**Prerequisite:** RERT 11000.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**RERT 11003 REAL ESTATE FINANCING 2 Credit Hours**

Covers types of institutions, instruments and procedures involved in financing real estate transactions. Covers nature and characteristics of mortgage loans and nature of mortgage market.

**Prerequisite:** RERT 11000.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**RERT 21000 REAL ESTATE APPRAISAL 2 Credit Hours**

Emphasizes methodology of appraising urban real property and appraisal techniques. Presents market approach to residential appraisal.

**Prerequisite:** RERT 11000.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**RERT 21003 SPECIAL TOPICS IN REAL ESTATE 2 Credit Hours**

(Repeatable for credit) Seminar involving discussion of current issues and solutions to special problems in real estate investment, management and brokerage operations.

**Prerequisite:** RERT 11000 and RERT 11001 and RERT 11003 and RERT 21000.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

## Recreation, Park and Tourism Management (RPTM)

**RPTM 16000 FOUNDATIONS OF RECREATION AND LEISURE 3 Credit Hours**

Historical examination of the park and recreation movement, sociological, economic, psychological and political considerations for the delivery of leisure and recreation services in contemporary society.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**RPTM 16001 CAREER EXPLORATION IN RECREATION, PARK, AND TOURISM MANAGEMENT 1 Credit Hour**

Introduction to career opportunities in Recreation, Park, and Tourism Management. Includes public, non-profit, and commercial settings and site visits.

**Pre/corequisite:** RPTM 16000.

**Schedule Type:** Lecture

**Contact Hours:** 1 lecture

**Grade Mode:** Standard Letter

**RPTM 26001 INTRODUCTION TO COMMUNITY INCLUSION FOR INDIVIDUALS WITH DISABILITIES 3 Credit Hours**

Interdisciplinary exploration of conceptual theoretical, philosophical and legal aspects related to inclusion of individuals with disabilities in community life.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**RPTM 26010 COMMUNITY DEVELOPMENT IN RECREATION 3 Credit Hours**

Explores the contemporary and historical roles, organization and services of public and non-profit leisure service providers. Includes various theoretical perspectives on community organization and development as well as methods available to the recreation practitioner to facilitate the development of recreation services in communities.

**Prerequisite:** RPTM 16000.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**RPTM 26030 LEADERSHIP IN RECREATION, PARKS AND TOURISM 3 Credit Hours**

Leadership concepts, principles, methods and techniques necessary for facilitating beneficial recreation activities for diverse populations.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter



**RPTM 26060 INTRODUCTION TO GLOBAL TOURISM (DIVG) 3 Credit Hours**

(Cross-listed with GEOG 22040) Introduction to travel and tourism around the world. Students study tourism technologies and cultural and natural environments as attractions, benefits of travel, travel ethics and sustainable development.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Diversity Global

**RPTM 26071 MAINTENANCE AND OPERATION OF AREAS AND FACILITIES 3 Credit Hours**

A systems approach for the effective maintenance and operation of areas and facilities.

**Prerequisite:** RPTM 16000.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**RPTM 26081 PRINCIPLES OF OUTDOOR RECREATION 3 Credit Hours**

Introduction to outdoor recreation including historical and cultural perspectives, outdoor recreation resources, environmental aspects, trends and management.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**RPTM 36010 RECREATION, LEISURE AND AGING 3 Credit Hours**

Knowledge and understanding of leisure and aging. Planning and implementing recreation programs and activities for enriching the lives of older persons.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**RPTM 36040 INCLUSION OF PEOPLE WITH DISABILITIES IN LEISURE SERVICES (DIVD) 3 Credit Hours**

An examination of attitudes toward people with disabilities, characteristics of various disability groups, the role and responsibility of leisure service providers to be inclusive of all individuals and techniques for adapting programs.

**Prerequisite:** RPTM 26030.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Diversity Domestic

**RPTM 36060 ENTREPRENEURIAL APPROACHES TO LEISURE AND HOSPITALITY SERVICES 3 Credit Hours**

Principles of commercial recreation and tourism services, including entrepreneurship, economic concepts of the for-profit recreation industries and management skills.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**RPTM 36075 PROGRAM DESIGN AND EVALUATION 3 Credit Hours**

Programming leisure services within a socio-cultural context, involving understanding and assessing client behavior and needs, proficiency in program design and implementation, and knowledge of evaluation methods reflective of a service-centered and benefits approach.

**Prerequisite:** RPTM 26030.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**RPTM 36081 ADVENTURE EDUCATION 3 Credit Hours**

Introduction to adventure education, the history and philosophy, initiatives, ropes courses, adventure curricula and the basics of outdoor leadership and process facilitation.

**Prerequisite:** RPTM 26030 and RPTM 26081.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**RPTM 36082 INTERPRETATION OF NATURAL AND CULTURAL RESOURCES 3 Credit Hours**

Interpretation is the art of creating intellectual and emotional bonds between people and natural and cultural resources. Interpretation is commonly practiced in parks and other protected areas, zoos, museums and a variety of tourist attractions. This course provides students with the philosophies, concepts and practical techniques necessary to plan and present effective interpretation of natural and cultural resources.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**RPTM 36083 ENVIRONMENTAL EDUCATION AND CONSERVATION 3 Credit Hours**

Environmental education helps people better understand the natural world and to develop attitudes and behaviors conducive to environmental conservation. Teaches students the foundations, principles and techniques of environmental education thus enabling students to prepare and present effective environmental education programs. **Prerequisite:** None

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**RPTM 36085 LEISURE AND CULTURE (DIVD) 3 Credit Hours**

Leisure behaviors and beliefs for people from diverse cultures, factors perpetuating inequity in the United States and strategies for leisure programming in a pluralistic society.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Diversity Domestic

**RPTM 36911 WILDERNESS AND REMOTE FIRST AID FOR PROFESSIONALS AND EDUCATORS 3 Credit Hours**

Students build first aid knowledge skills and behaviors through a variety of learning strategies to individually help in an emergency. A key focus is on how to work in limited resource environments or remote environments (i.e., foreign countries, wilderness, air travel). Then students learn and demonstrate how to prepare others, and be a leader during emergencies through practical experiences. Course is taught and assessed in a cognitively, physically, and emotionally stressed manner. This course includes three weekends and include outdoors experiences. Successful completion of the course may result in American Red Cross certification and Instructor status.

**Prerequisite:** None.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 1.5 lecture, 3 lab

**Grade Mode:** Standard Letter

**RPTM 45031 SPORT TOURISM 3 Credit Hours**

(Cross-listed with SPAD 45031) Course incorporates both theoretical learning of travel for sports as a global phenomenon and application of such knowledge in hosting a sporting event with travel as the focus. The experiential, cultural and economic aspects of sport tourism are examined. Students demonstrate their ability to prepare a sport tourism plan upon the completion of the course.

**Prerequisite:** Junior or senior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**RPTM 46000 TOURISM DEVELOPMENT AND RECREATIONAL TRAVEL 3 Credit Hours**

(Cross-listed with GEOG 42040)(Slashed with RPTM 56000) Investigation of travel and tourism development using an interdisciplinary social science approach.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**RPTM 46001 PRINCIPLES AND METHODS OF COMMUNITY INCLUSION 3 Credit Hours**

(Slashed with RPTM 56001) Interdisciplinary approach to the principles and methods of designing an inclusive environment. Focus is on characteristics of disability groups and societal considerations to making adaptations and accommodations. Students complete a service learning component that focuses on inclusion of people with disabilities in community life.

**Prerequisite:** RPTM 26001.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**RPTM 46030 DYNAMICS OF LEISURE BEHAVIOR (WIC) 3 Credit Hours**

(Slashed with RPTM 56030) Analysis of leisure behavior through an examination of social-psychological theories and research.

**Prerequisite:** RPTM 36040 and RPTM 36075.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Writing Intensive Course

**RPTM 46060 ADMINISTRATION OF LEISURE SERVICES 3 Credit Hours**

(Slashed with RPTM 56060) Administrative practices of private and public leisure service agencies. Organization, philosophy, personnel and fiscal management, public relations and legal concerns are examined.

**Prerequisite:** RPTM 36040 and RPTM 36075.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**RPTM 46070 PARK PLANNING 3 Credit Hours**

(Slashed with RPTM 56070) Understanding the relationship between recreation places and the people who use them. This includes the planning, design and functioning of public and commercial recreation places. Prerequisite: RPTM 26081

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**RPTM 46091 SEMINAR FOR INTERNSHIP PREPARATION 1 Credit Hour**

(Repeatable for credit) Planning and preparation for the internship experience in leisure service settings. Students should register for this course two semesters before enrolling in the internship course.

**Prerequisite:** Recreation, Park, and Tourism Management (RPTM) major and junior standing.

**Schedule Type:** Seminar

**Contact Hours:** 1 lecture

**Grade Mode:** Satisfactory/Unsatisfactory

**RPTM 46092 INTERNSHIP IN RECREATION (ELR) 12 Credit Hours**

(Repeatable for credit) Supervised full-time experience providing knowledge of overall agency operation in approved leisure setting.

**Prerequisite:** RPTM 46091; and senior standing; and special approval.

**Schedule Type:** Practical Experience

**Contact Hours:** 40 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**Attributes:** Experiential Learning Requirement

**RPTM 46095 SELECTED TOPICS IN RECREATION 1-3 Credit Hours**

(Repeatable for a maximum of 6 credit hours) Selected topics dependent upon interest.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**RPTM 46096 INDIVIDUAL INVESTIGATION IN RECREATION 1-3 Credit Hours**

(Repeatable for a maximum of 6 credit hours) Independent study completed under the supervision of a faculty member. Written approval of the supervising faculty member and school director required prior to registration.

**Prerequisite:** Junior standing; and special approval.

**Schedule Type:** Individual Investigation

**Contact Hours:** 3-9 other

**Grade Mode:** Standard Letter-IP

**RPTM 56000 TOURISM DEVELOPMENT AND RECREATIONAL TRAVEL 3 Credit Hours**

Investigation of travel and tourism development using an interdisciplinary social science approach.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**RPTM 56001 PRINCIPLES AND METHODS OF COMMUNITY INCLUSION PRINCIPLES AND METHODS OF COMMUNITY INCLUSION PRINCIPLES 3 Credit Hours**

(Slashed with RPTM 46001) Interdisciplinary approach to the principles and methods of designing an inclusive environment. Focus is on characteristics of disability groups and societal consideration to making adaptations and accommodations. Students complete a service learning component that focuses on inclusion of people with disabilities in community life.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**RPTM 56030 DYNAMICS OF LEISURE BEHAVIOR 3 Credit Hours**

(Slashed with RPTM 46030) Analysis of leisure behavior through examination of social-psychological theories and research.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Grade Mode:** Standard Letter

**RPTM 56060 ADMINISTRATION OF LEISURE SERVICES 3 Credit Hours**

(Slashed with RPTM 46060) Administrative practices of private and public leisure service agencies. Organization, philosophy, personnel and fiscal management, public relations and legal concerns are examined.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**RPTM 56070 PARK PLANNING 3 Credit Hours**

(Slashed with RPTM 46070) Understanding the relationship between recreation places and the people who use them. This includes the planning, design and functioning of public and commercial recreation places.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**RPTM 65041 TOURISM AND HOSPITALITY REVIEW 3 Credit Hours**

Reviews academic tourism and hospitality literature to provide students with a theoretical and empirical understanding of the tourism phenomenon. Issues include tourist motivations; the social, cultural and environmental impacts of tourism; tourism and development; and the impact of hospitality services on tourism.

**Prerequisite:** RPTM 56000; and graduate standing.

**Schedule Type:** Lecture

**Grade Mode:** Standard Letter

**RPTM 65047 GLOBAL ISSUES OF TOURISM TRADE 3 Credit Hours**

An examination of international and intercultural changes due to travel and tourism, particularly in economic, social and environmental areas. The studies include theories and cases and form the basis upon which a sustainable tourism policy is developed. The goal of the course is to prepare students for a leadership role in tourism policy making. The course has an emphasis on reading and discussion.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Grade Mode:** Standard Letter

**RPTM 65061 PHILOSOPHICAL AND SOCIAL BASES OF LEISURE AND SPORT 3 Credit Hours**

(Slashed with RPTM 75061) Overview of philosophical and social foundations of leisure and sport. Contemporary theories and perspectives are examined.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**RPTM 75061 PHILOSOPHICAL AND SOCIAL BASES OF LEISURE AND SPORT 3 Credit Hours**

(Slashed with RPTM 65061) Overview of philosophical and social foundations of leisure and sport. Contemporary theories and perspectives are examined.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

## Regional College (RC)

**RC 00003 CORE READING STRATEGIES FOR COLLEGE SUCCESS 3 Credit Hours**

Development of reading strategies necessary for successful completion of college coursework. Emphasis on improving reading comprehension. The credit hours completed for this course do not count toward graduation.

**Prerequisite:** ACT Reading score of 0-13; or SAT Critical Reading or Verbal score of 0-350; or Compass score of 0-60 (required if student does not have ACT or SAT score).

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**RC 00006 CRITICAL READING STRATEGIES FOR COLLEGE SUCCESS 3 Credit Hours**

Development and application of content area reading and study strategies for successful completion of college coursework. Emphasis on application of study strategies. Credit hours for this course do not count toward graduation.

**Prerequisite:** ACT reading 14-19 score; or SAT writing 360-460 score (if taken before 2016); or SAT writing and language 20-24 score (if taken after 2016); or Accuplacer reading comprehension 51-79 score; or Compass 61-79 score (if student does not have ACT or SAT score).

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**RC 00009 SWIFT KICK STUDY SKILLS 1 Credit Hour**

Development of study strategies necessary for successful completion of college coursework. The credit hour completed for this course does not count toward graduation.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 1 lecture

**Grade Mode:** Standard Letter

**RC 20195 SPECIAL TOPICS 1-3 Credit Hours**

Subject varies depending on the need and faculty. Prerequisite: None

**Schedule Type:** Lecture

**Contact Hours:** 1-3 lecture

**Grade Mode:** Standard Letter

## Rehabilitation Counseling and Training (RHAB)

**RHAB 57712 INTRODUCTION TO REHABILITATION 3 Credit Hours**

Introductory course surveys philosophy, history, and legislation in rehabilitation which is defined as a process, social movement and public mandate. Particular emphasis is given to the role and function of the rehabilitation counselor in the private and public sectors.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**RHAB 60093 VARIABLE TITLE WORKSHOP IN REHABILITATION COUNSELING 1-4 Credit Hours**

(Repeatable for credit)

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Workshop

**Contact Hours:** 1-4 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**RHAB 67723 MEDICAL INFORMATION FOR REHABILITATION COUNSELORS 3 Credit Hours**

(Cross-listed with CES 77723) Study of the physical impact of disease or injury on individuals; available medical and restorative resources skills in interpreting medical reports and rehabilitation planning.

**Prerequisite:** Graduate standing.

**Schedule Type:** Clerkship

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**RHAB 67725 PSYCHOSOCIAL IMPACT OF DISABILITY 3 Credit Hours**

Introduction to major concepts in rehabilitation regarding the impact of disability on the individual, the family and the community. Normalization stigma and adjustment to loss emphasized.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**RHAB 67730 POLICIES AND PRACTICES FOR REHABILITATION COUNSELORS OF THE DEAF 3 Credit Hours**

Designed to integrate coursework in Rehabilitation and Deaf Education with field experiences in preparation for interning with an RCD by building upon coursework and field experiences to examine the unique issues, accommodations, and modifications needed when applying these processes to DHH individuals. The course addresses cultural, linguistic, and experiential issues that impact achievement, assessment, vocational identity and skills, career education and training, counseling theory and practice, and employer and employment site preparation with a focus on identification and use of research-based exemplary practices. It also provides specific consumer, vendor, organizational, political, social, and educational aspects facing RCDs.

**Prerequisite:** Rehabilitation counseling and training major; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**RHAB 67732 OCCUPATIONAL ASPECTS OF DISABILITY 3 Credit Hours**

An introduction to a wide range of occupational and vocational analysis through job analysis, job seeking, job placement, job restructuring, work adjustment and independent living approaches.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**RHAB 67776 SEMINAR ON RESEARCH IN DISABILITIES 3 Credit Hours**

Survey of the research literature in disabilities. Guidelines for evaluating and implementing research findings. Acquaints students with current research. Evaluation of design statistical analysis and conclusions.

**Prerequisite:** Graduate standing.

**Corequisite:** EVAL 65510.

**Schedule Type:** Seminar

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**RHAB 67795 SPECIAL TOPICS IN REHABILITATION 1-3 Credit Hours**

(Repeatable for credit) Presentation of special interest to students. Offered irregularly. Topic will be announced in schedule of classes booklet.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**RHAB 67796 INDIVIDUAL INVESTIGATION IN REHABILITATION COUNSELING 1-3 Credit Hours**

(Repeatable for credit) Independent reading and/or research directed by a graduate faculty member.

**Prerequisite:** Graduate standing.

**Schedule Type:** Individual Investigation

**Contact Hours:** 1-3 other

**Grade Mode:** Standard Letter-IP

**RHAB 67798 INDIVIDUAL RESEARCH IN REHABILITATION 1-9 Credit Hours**

(Repeatable for credit) Research project on an aspect of rehabilitation under supervision of instructor. Arrangements with instructor must be made prior to registration.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Research

**Contact Hours:** 1-9 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**RHAB 67892 INTERNSHIP: REHABILITATION 6 Credit Hours**

(Repeatable for credit) Assignment to rehabilitation agency for extensive and intensive applications appropriate for rehabilitation counseling, consulting and coordinating. Supervision of internships shared jointly by rehabilitation agency and university instructor. Credit hour reduction for prior experience may be granted.

**Prerequisite:** CES 69192; and graduate standing.

**Schedule Type:** Practical Experience

**Contact Hours:** 43 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**RHAB 70093 VARIABLE TITLE WORKSHOP IN REHABILITATION COUNSELING 1-4 Credit Hours**

(Repeatable for credit)

**Prerequisite:** Doctoral standing; and special approval.

**Schedule Type:** Workshop

**Contact Hours:** 1-4 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**RHAB 77712 INTRODUCTION TO REHABILITATION 3 Credit Hours**

Introductory course surveys philosophy, history and legislation in rehabilitation which is defined as a process, social movement and public mandate. Particular emphasis is given to the role and function of the rehabilitation counselor in the private and public sectors.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**RHAB 77723 MEDICAL INFORMATION FOR REHABILITATION COUNSELORS 3 Credit Hours**

(Cross-listed with CES 67723) Study of the physical impact of disease or injury on individuals; available medical and restorative resources skills in interpreting medical reports and rehabilitation planning.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Clerkship

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**RHAB 77725 PSYCHOSOCIAL IMPACT OF DISABILITY 3 Credit Hours**

Introduction to major concepts in rehabilitation regarding the impact of disability on the individual, the family and the community. Normalization, stigma and adjustment to loss emphasized.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**RHAB 77732 OCCUPATIONAL ASPECTS OF DISABILITY 3 Credit Hours**

An introduction to a wide range of occupational and vocational analysis through job analysis, job seeking, job placement, job restructuring, work adjustment and independent living approaches.

**Prerequisite:** RHAB 67729 or 77729; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**RHAB 77736 INDIVIDUAL COUNSELING PRACTICUM IN REHABILITATION 2-4 Credit Hours**

Supervised, controlled exposure to rehabilitation clients; examine alternative modes of intervention; group and individual feedback sessions using audio and videotape recordings.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Practical Experience

**Contact Hours:** 2-4 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**RHAB 77776 SEMINAR ON RESEARCH IN DISABILITIES 3 Credit Hours**

Survey of the research literature in disabilities. Guidelines for evaluating and implementing research findings. Acquaints students with current research. Evaluation of design statistical analysis and conclusions.

**Prerequisite:** Doctoral standing.

**Corequisite:** EVAL 66510.

**Schedule Type:** Seminar

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**RHAB 77792 INTERNSHIP REHABILITATION 6 Credit Hours**

(Repeatable for credit) Assignment to rehabilitation agency for extensive and intensive applications appropriate for rehabilitation counseling, consulting and coordinating. Supervision of internships shared jointly by rehabilitation agency and university instructor. Credit hour reduction for prior experience may be granted.

**Prerequisite:** CES 6/77736; and doctoral standing.

**Schedule Type:** Practical Experience

**Contact Hours:** 43 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**RHAB 77795 SPECIAL TOPICS IN REHABILITATION 1-3 Credit Hours**

(Repeatable for credit) Presentation of special interest to students. Offered irregularly. Topic will be announced in schedule of classes booklet.

**Prerequisite:** Doctoral standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 1-3 lecture

**Grade Mode:** Standard Letter

**RHAB 77796 INDIVIDUAL INVESTIGATION IN REHABILITATION COUNSELING 1-3 Credit Hours**

(Repeatable for credit) Independent reading and/or research directed by a graduate faculty member.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Individual Investigation

**Contact Hours:** 1-3 other

**Grade Mode:** Standard Letter-IP



**RHAB 77798 INDIVIDUAL RESEARCH IN REHABILITATION 1-9 Credit Hours**

(Repeatable for credit) Research project on an aspect of rehabilitation under supervision of instructor. Arrangements with instructor must be made prior to registration.

**Prerequisite:** Doctoral standing; and special approval.

**Schedule Type:** Research

**Contact Hours:** 1-9 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

## Religion (REL)

**REL 11020 INTRODUCTION TO WORLD RELIGIONS (DIVG) (ELR) (KHUM) 3 Credit Hours**

A study of the religious impulse as it manifests itself in the plurality of beliefs, practices and institutions of the world religions.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Diversity Global, Experiential Learning Requirement, Kent Core Humanities, Transfer Module Humanities

**REL 12020 INTRODUCTION TO NEW TESTAMENT LITERATURE 3 Credit Hours**

Course introduces students to the literature of the New Testament and to the early Christian communities in which the works were formulated. Of focused interest is the critical study of the content of the texts, with close consideration of the historical and literary influences on the composition and reception of the gospel traditions as regards their presentations of the life, ministry and person of Jesus, and the letters of Paul. The post-Pauline pastoral epistles, and various later works included in the collection are briefly examined.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**REL 21021 MOSES, JESUS AND MOHAMMAD (DIVG) (ELR) (KHUM) 3 Credit Hours**

An in-depth exploration of Judaism, Christianity and Islam, considering the circumstances of each tradition's beginnings, the influence of the identified founder, and the cultural diversities evident in the history of each of the distinctive religious traditions, as well as the inter-connectedness and influence of each of three religions upon the others. Course concludes with a consideration of the contemporary situations faced by the traditions, including their engagements with modernity and one another as global historic traditions in a changing world.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Diversity Global, Experiential Learning Requirement, Kent Core Humanities, Transfer Module Humanities

**REL 31065 COMPARATIVE RELIGIOUS EXPERIENCE 3 Credit Hours**

Examination of the phenomena of religious experience, its structure, ramifications and expression in myth and ritual.

**Prerequisite:** REL 11020 or REL 21021.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**REL 31075 RELIGION AND WOMEN 3 Credit Hours**

Course serves to provide students with an opportunity to examine the status of women as concerns authoritative texts, politics, doctrines and institutions through the critical study of the history, texts and artifacts of selected traditional religions with the use of multidisciplinary and cross-cultural approaches concerning the experience, contributions, topics and status of women – both historically and in contemporary contexts.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**REL 31091 SEMINAR: RELIGION IN THE MODERN WORLD 3 Credit Hours**

(Repeatable for maximum 6 credit hours) An inquiry into the influences of modernity in the conception, valuation and-or interpretation of religious convictions, beliefs, symbolizations, institutions and artifacts (including texts). Students with junior standing should contact the director of the Religion Studies program for a prerequisite override, if necessary.

**Prerequisite:** REL 11020 or REL 21021.

**Schedule Type:** Seminar

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**REL 40095 SPECIAL TOPICS IN RELIGION STUDIES 3 Credit Hours**

(Repeatable for credit when topics vary) Special topics seminar in religion studies.

**Prerequisite:** Junior standing.

**Schedule Type:** Seminar

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**REL 40096 INDIVIDUAL INVESTIGATION 1-3 Credit Hours**

(Repeatable for credit) Individual investigation in religion studies.

**Prerequisite:** Special approval.

**Schedule Type:** Individual Investigation

**Contact Hours:** 3-9 other

**Grade Mode:** Standard Letter

**REL 41010 RELIGION VIOLENCE AND TERROR 3 Credit Hours**

Course explores a variety of religions focusing on the themes of violence and terror. The examination employs different academic approaches to selected historic examples and their underlying causes.

**Prerequisite:** REL 11020 or REL 21021.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**REL 41091 SEMINAR IN ADVANCED COMPARATIVE RELIGION 3 Credit Hours**

(Repeatable for a maximum of 6 credit hours)(Slashed with REL 51091) Variable content course that is an advanced examination of pivotal issues, schools and theorists in the study of religion and the future of comparative studies.

**Prerequisite:** REL 11020 or REL 21021 with a minimum C grade; and REL 31065 or REL 31091; and junior or senior standing.

**Schedule Type:** Seminar

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**REL 51091 SEMINAR IN ADVANCED COMPARATIVE RELIGION 3 Credit Hours**  
 (Repeatable for a maximum of 6 credit hours)(Slashed with REL 41091)  
 Variable content course that is an advanced examination of pivotal issues, schools and theorists in the study of religion and the future of comparative studies.  
**Prerequisite:** Graduate standing.  
**Schedule Type:** Seminar  
**Contact Hours:** 3 other  
**Grade Mode:** Standard Letter

## Respiratory Care (RSPC)

**RSPC 30000 PROFESSIONAL PRACTICE IN RESPIRATORY CARE 3 Credit Hours**  
 Course guides students in responsible professional practice and encourages personal development of the skills and key traits of the professional. The importance of continuing professional development, being reflective, ethical, accountable and culturally competent are also explored.  
**Prerequisite:** Respiratory care major.  
**Schedule Type:** Lecture  
**Contact Hours:** 3 lecture  
**Grade Mode:** Standard Letter

**RSPC 30002 LEADERSHIP AND MANAGEMENT IN RESPIRATORY CARE 3 Credit Hours**  
 Course allows students to utilize their knowledge and experience in understanding leadership as a team leader or team member in the practice of respiratory care. Management in respiratory care is explored, including hospital organization; department structure; outcomes; staffing, billing, budgeting and staff development; decision-making; and effective communication.  
**Prerequisite:** Respiratory care major.  
**Schedule Type:** Lecture  
**Contact Hours:** 3 lecture  
**Grade Mode:** Standard Letter

**RSPC 30004 EDUCATIONAL INSTRUCTION IN RESPIRATORY CARE 3 Credit Hours**  
 Course guides students in perspectives on teaching and learning, characteristics of the learner and techniques and strategies for teaching and learning. Delivery of respiratory therapy education in various settings.  
**Prerequisite:** Respiratory care major.  
**Schedule Type:** Lecture  
**Contact Hours:** 3 lecture  
**Grade Mode:** Standard Letter

**RSPC 30006 SLEEP MEDICINE AND POLYSOMNOGRAPHY 3 Credit Hours**  
 A fundamental overview of a variety of sleep and breathing disorders that affect sleep. Topics include the identification of normal sleep and sleep disorders, methods of diagnosing sleep disorders, and treatment options. Practice in comparing and evaluating the indications and contraindications for sleep studies and evaluating sleep study results in relation to types of respiratory sleep disorders.  
**Prerequisite:** Respiratory care major.  
**Schedule Type:** Lecture  
**Contact Hours:** 3 lecture  
**Grade Mode:** Standard Letter

**RSPC 31095 SPECIAL TOPICS IN RESPIRATORY CARE 1-3 Credit Hours**  
 (Repeatable for credit) Scheduled topics of interest to students and faculty.  
**Prerequisite:** None.  
**Schedule Type:** Lecture  
**Contact Hours:** 1-3 lecture  
**Grade Mode:** Standard Letter

**RSPC 40000 DISEASE MANAGEMENT IN RESPIRATORY CARE 3 Credit Hours**  
 Provides an advanced understanding of the pathophysiology and management of cardiopulmonary disease and comorbidities. Provides training in critical thinking in the management of chronic disease and utilization of patient-therapist participation principles; patient communication, evaluation, development of care plans and action plans utilizing evidence-based medicine; and protocols and clinical practice guidelines.  
**Prerequisite:** Respiratory care major.  
**Schedule Type:** Lecture  
**Contact Hours:** 3 lecture  
**Grade Mode:** Standard Letter

**RSPC 40002 RESEARCH DEVELOPMENT IN RESPIRATORY CARE (WIC) 3 Credit Hours**  
 Introduces the respiratory care practitioner to research methodology and design, their application to health science research and the application of research to everyday health care.  
**Prerequisite:** MATH 10040 or MATH 10041 or MGMT 24056 or BMRT 21004 or PH 30002 or PSYC 21621 or SOC 32220 and SOC 32221; and ENG 21011 or HONR 10297; and respiratory care major.  
**Schedule Type:** Lecture  
**Contact Hours:** 3 lecture  
**Grade Mode:** Standard Letter  
**Attributes:** Writing Intensive Course

**RSPC 40004 ADVANCED PRACTICE IN RESPIRATORY CARE 3 Credit Hours**  
 Explores the traditional practice roles filled by respiratory therapists; the advanced practice roles that exist, as well as those that are emerging within the profession; and the career opportunities they represent for practitioners.  
**Prerequisite:** Admission to professional study; and respiratory care major.  
**Schedule Type:** Lecture  
**Contact Hours:** 3 lecture  
**Grade Mode:** Standard Letter

**RSPC 40006 CONTEMPORARY ISSUES AND TRENDS IN RESPIRATORY CARE 3 Credit Hours**  
 Analysis of contemporary issues and trends in respiratory care and their impact and influence on the profession. Prerequisite: Respiratory care major  
**Schedule Type:** Lecture  
**Contact Hours:** 3 lecture  
**Grade Mode:** Standard Letter

**RSPC 40008 CHRONIC DISEASE MANAGEMENT PRINCIPLES 3 Credit Hours**

This course focuses on the application of critical thinking in the area of managing chronic disease and the impact healthcare professionals have on affecting positive patient population outcomes. Current practices, utilization of evidence-based medicine, protocols and current principles and trends in managing the impact of acute to chronic disease are discussed.

**Prerequisite:** Respiratory care major.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**RSPC 40075 INFORMATION AND PATIENT CARE TECHNOLOGY FOR HEALTHCARE PROFESSIONALS 3 Credit Hours**

(Cross-listed with NURS 40075) Focuses on the use of information management and information systems, technology and the human technology interface utilized in professional practice.

**Prerequisite:** Admission to professional study; and respiratory care major.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**RSPC 41092 PRACTICUM FOR RESPIRATORY CARE (ELR) 3 Credit Hours**

An individually planned practicum that provides students the opportunity to explore real world application of program principles and practice options, or to conduct research within the realm of respiratory care under the guidance of a registered respiratory therapy practitioner. Focus is on options for practice or enhancing practice through application of program principles. Student's practicum experience requires prior faculty approval before registration.

**Pre/corequisite:** Admission to professional study; and RSPC 30000; RSPC 30002; RSPC 30004; RSPC 30006; RSPC 40006; RSPC 40075 or NURS 40075; NURS 46000; RSPC 40002; RSPC 40004; RSPC 40000 or RSPC 40008; and special approval.

**Schedule Type:** Practical Experience

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Experiential Learning Requirement

## Respiratory Therapy Technology (RTT)

**RTT 10000 INTRODUCTION TO RESPIRATORY THERAPY 4 Credit Hours**

Establishes a foundation in the profession of respiratory care. Topics include: patient assessment and monitoring, medical gas and humidity therapy, infection control, communication and diversity, clinical environment, patient education, disaster management, ethics and law, quality assurance and evidence based medicine, industry standards, healthcare reimbursement.

**Prerequisite:** Admission to technical study.

**Schedule Type:** Laboratory, Lecture

**Contact Hours:** 3 lecture, 2.5 lab

**Grade Mode:** Standard Letter

**RTT 11001 RESPIRATORY CARE PHARMACOLOGY 2 Credit Hours**

Basic principles in pharmacology, specific to respiratory care, covering the pharmacokinetic action of drugs, administration, calculations, and effects on the body systems.

**Prerequisite:** RTT 11003 with a minimum C grade.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**RTT 11002 CARDIOPULMONARY DISEASES 3 Credit Hours**

A study of diseases and disorders affecting the cardiopulmonary system; etiology, pathophysiology, clinical manifestations, analyzing and interpreting data, constructing respiratory care plans and the role of the respiratory therapist in treatment.

**Prerequisite:** RTT 10000 and RTT 11003 with a minimum C grade.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**RTT 11003 APPLICATION AND MECHANISMS OF CARDIOPULMONARY ANATOMY AND PHYSIOLOGY 3 Credit Hours**

Provides a solid foundation in cardiopulmonary anatomy and physiology with relevant applied physiology as it relates to the profession of respiratory care.

**Prerequisite:** Admission to technical study; and respiratory therapy technology major.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**RTT 11004 THERAPEUTICS 6 Credit Hours**

Introduction to inhaled medication administration, hyperinflation therapy, bronchopulmonary hygiene, and airway management. There is a laboratory and clinical component.

**Prerequisite:** RTT 10000 and RTT 11003 with a minimum C grade.

**Schedule Type:** Clinical Laboratory, Laboratory, Lecture

**Contact Hours:** 4 lecture, 3 lab, 8 other

**Grade Mode:** Standard Letter

**RTT 11006 INTRODUCTION TO CLINICAL RESPIRATORY CARE 3 Credit Hours**

Introduction to patient assessment and monitoring, communication, infection control, medical records, medical gas and humidity therapy, and the clinical environment. There is a laboratory component.

**Prerequisite:** Admission to technical study; and respiratory therapy technology major.

**Schedule Type:** Laboratory, Lecture

**Contact Hours:** 2 lecture, 3 lab

**Grade Mode:** Standard Letter

**RTT 11008 BLOOD GAS ANALYSIS 2 Credit Hours**

A study of methods, equipment, and procedures for obtaining arterial blood; additionally, the principles and standards of analysis and applications of physiological data is stressed.

**Prerequisite:** RTT 10000 and RTT 11003 with a minimum C grade.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 1.5 lecture, 1.5 lab

**Grade Mode:** Standard Letter

**RTT 21000 CRITICAL CARE 4 Credit Hours**

An advanced-level course that provides a foundation for managing patients in critical care utilizing mechanical ventilation, pharmacology, and hemodynamic monitoring systems. Students perform, interpret and apply data, and learn advanced life support. There is a clinical component.

**Prerequisite:** RTT 21001 and RTT 21003 with a minimum C grade.

**Schedule Type:** Clinical Laboratory, Lecture

**Contact Hours:** 3 lecture, 16 other

**Grade Mode:** Standard Letter

**RTT 21001 MECHANICAL VENTILATION 5 Credit Hours**

Establishes a foundation of mechanical ventilation and associated equipment; assessment, monitoring and modifying parameters. There is a laboratory and clinical component.

**Prerequisite:** RTT 11001 or AHS 12000 with a minimum C grade; and RTT 11002, RTT 11004, RTT 11008; and BSCI 11010 and BSCI 11020 or BSCI 21010 and BSCI 21020; and PHY 12111 or PHY 13001; and CHEM 10050 or CHEM 10055 or CHEM 10060; and ENG 11011 or ENG 21011 or HONR 10197 or HONR 10297.

**Schedule Type:** Clinical Laboratory, Laboratory, Lecture

**Contact Hours:** 4 lecture, 4 lab, 16 other

**Grade Mode:** Standard Letter

**RTT 21003 PERINATAL AND PEDIATRIC RESPIRATORY THERAPY 2 Credit Hours**

An intense study of assessing, providing, and evaluating neonatal and pediatric respiratory care. Topics include: assessment of growth and development from conception to delivery, resuscitation, persistent illness, therapeutic interventions, and managing mechanical ventilation.

**Prerequisite:** RTT 11001 or AHS 12000 with a minimum grade of C; and minimum C grade in RTT 11002 and RTT 11004 and RTT 11008.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 1.5 lecture, 1.5 lab

**Grade Mode:** Standard Letter

**RTT 21004 ADVANCED DIAGNOSTICS 3 Credit Hours**

Provides knowledge and skills necessary to work effectively in a pulmonary function laboratory. Topics include: spirometry, testing standards and techniques, equipment set up and utilization, analyzing test results and applying them in the clinical setting.

**Prerequisite:** RTT 11003 and RTT 11008 with a minimum C grade.

**Schedule Type:** Laboratory, Lecture

**Contact Hours:** 2 lecture, 1 lab

**Grade Mode:** Standard Letter

**RTT 21005 PULMONARY REHABILITATION AND CONTINUING CARE 2 Credit Hours**

Roles and functions of respiratory therapists in cardiopulmonary rehabilitation and home care.

**Prerequisite:** RTT 21001 with a minimum C grade.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**RTT 21006 PULMONARY REHABILITATION AND CONTINUING CARE 1 Credit Hour**

Roles and functions of respiratory therapists in cardiopulmonary rehabilitation and home care.

**Prerequisite:** RTT 21001 with a minimum C grade.

**Schedule Type:** Lecture

**Contact Hours:** 1 lecture

**Grade Mode:** Standard Letter

**RTT 21010 RESPIRATORY THERAPY CAPSTONE COURSE 3 Credit Hours**

Contemporary issues and trends in respiratory care; preparation for the CRT and RRT credentialing examinations; obtaining employment after graduation. There is a laboratory and clinical component.

**Prerequisite:** RTT 21000 with a minimum C grade.

**Schedule Type:** Clinical Laboratory, Laboratory, Lecture

**Contact Hours:** 1 lecture, 3 lab, 16 other

**Grade Mode:** Standard Letter

**RTT 21012 BASIC RESEARCH DEVELOPMENT AND ANALYSIS 2 Credit Hours**

Survey of research problems, methods, and designs utilized in respiratory care with a focus on developing analytical and critiquing skills.

**Prerequisite:** RTT 21000 with a minimum C grade.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**RTT 21013 RESPIRATORY THERAPY CAPSTONE 2 Credit Hours**

Contemporary issues and trends in respiratory care# preparation for the CRT and RRT credentialing examinations# obtaining employment after graduation.

**Prerequisite:** Minimum C (2.000) grade in RTT 21000.

**Schedule Type:** Clinical Laboratory, Laboratory, Lecture

**Contact Hours:** 1 lecture, 1 lab, 16 other

**Grade Mode:** Standard Letter

**RTT 21095 SPECIAL TOPICS IN RESPIRATORY THERAPY 1-3 Credit Hours**

(Repeatable for credit) Scheduled topics of interest to students and faculty.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 1-3 lecture

**Grade Mode:** Standard Letter

**RTT 21096 INDIVIDUAL INVESTIGATION IN RESPIRATORY THERAPY 1-3 Credit Hours**

(Repeatable for a maximum of 6 credit hours) Readings and/or investigation of respiratory therapy topics supervised by respiratory therapy faculty.

**Prerequisite:** Respiratory therapy technology majors.

**Schedule Type:** Individual Investigation

**Contact Hours:** 1-3 other

**Grade Mode:** Satisfactory/Unsatisfactory

## Russian (RUSS)

**RUSS 12201 ELEMENTARY RUSSIAN I 4 Credit Hours**

An introduction to the Russian language in the context of Russian cultures.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 4 lecture

**Grade Mode:** Standard Letter

**RUSS 12202 ELEMENTARY RUSSIAN II 4 Credit Hours**

A continuation of the introduction to the Russian language in the context of Russian cultures.

**Prerequisite:** RUSS 12201.

**Schedule Type:** Lecture

**Contact Hours:** 4 lecture

**Grade Mode:** Standard Letter

**RUSS 22201 INTERMEDIATE RUSSIAN I 4 Credit Hours**

Continued development of speaking, listening, reading and writing skills using a variety of cultural materials.

**Prerequisite:** RUSS 12202.

**Schedule Type:** Lecture

**Contact Hours:** 4 lecture

**Grade Mode:** Standard Letter

**RUSS 22202 INTERMEDIATE RUSSIAN II 4 Credit Hours**

Continuation of RUSS 22201 in the development of speaking, listening, reading and writing skills using a variety of cultural materials.

**Prerequisite:** RUSS 22201.

**Schedule Type:** Lecture

**Contact Hours:** 4 lecture

**Grade Mode:** Standard Letter

**RUSS 32201 INTENSIVE RUSSIAN GRAMMAR 3 Credit Hours**

A systematic approach to Russian grammar and syntax.

**Prerequisite:** RUSS 22202.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**RUSS 32211 COMPOSITION AND CONVERSATION 3 Credit Hours**

Introduction to advanced oral and written discourse strategies in Russian.

**Prerequisite:** RUSS 22202.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**RUSS 32215 RUSSIAN PHONETICS AND DICTION 3 Credit Hours**

Study of the Russian sound system with special emphasis on pronunciation and intonation. Application of the international phonetic alphabet to Russian.

**Prerequisite:** RUSS 22202.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**RUSS 32231 TRANSLATION PRACTICE: RUSSIAN 1 Credit Hour**

Translation practice with Russian texts using principles and techniques learned in the lecture class.

**Prerequisite:** RUSS 22202.

**Pre/corequisite:** TRST 30230.

**Schedule Type:** Lecture

**Contact Hours:** 1 lecture

**Grade Mode:** Standard Letter

**RUSS 32240 CONVERSATION FOR BUSINESS AND SPECIAL PURPOSES: RUSSIAN 3 Credit Hours**

Introduction to the special vocabulary of business and other special subject areas. Course introduces the concept of language for special purposes and emphasizes the use of special vocabulary in conversations in business and other settings.

**Prerequisite:** RUSS 22202.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**RUSS 32303 MODERN WRITERS (ELR) (WIC) 3 Credit Hours**

Reading and analysis of modern Russian plays and stories.

**Prerequisite:** RUSS 22202.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Experiential Learning Requirement, Writing Intensive Course

**RUSS 32421 RUSSIAN CIVILIZATION (ELR) (WIC) 3 Credit Hours**

A survey of Russian history and intellectual life.

**Prerequisite:** RUSS 32303.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Experiential Learning Requirement, Writing Intensive Course

**RUSS 32501 RUSSIAN LITERATURE IN ENGLISH 3 Credit Hours**

Survey of major authors, movements and works of 19th- and 20th-century Russian literature in English translation. No knowledge of Russian is required.

**Prerequisite:** Sophomore standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**RUSS 42093 VARIABLE TITLE WORKSHOP IN RUSSIAN LANGUAGE AND LITERATURE 1-6 Credit Hours**

(Repeatable for credit) Workshops individually designed to provide instruction and training in specific areas of Russian studies.

**Prerequisite:** Special approval.

**Schedule Type:** Workshop

**Contact Hours:** 1-6 other

**Grade Mode:** Satisfactory/Unsatisfactory

**RUSS 42095 SPECIAL TOPICS IN RUSSIAN LANGUAGE AND LITERATURES 1-4 Credit Hours**

(Repeatable for credit) Topic varies per course offering; to be announced in schedule of classes.

**Prerequisite:** Senior standing.

**Schedule Type:** Lecture

**Contact Hours:** 1-4 lecture

**Grade Mode:** Standard Letter

**RUSS 42096 INDIVIDUAL INVESTIGATION 1-3 Credit Hours**

(Repeatable for credit) Independent investigation of problems in Russian language or literature.

**Prerequisite:** 6 credit hours of upper-division Russian courses (RUSS 30000 and 40000 levels); and special approval of the department chair.

**Schedule Type:** Individual Investigation

**Contact Hours:** 1-3 other

**Grade Mode:** Standard Letter-IP

**RUSS 42211 ADVANCED COMPOSITION AND CONVERSATION 3 Credit Hours**

(Slashed with RUSS 52211) Advanced practice in written and oral expression in Russian.

**Prerequisite:** RUSS 32211.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter



**RUSS 42230 ADVANCED TRANSLATION PRACTICE: RUSSIAN (ELR) (WIC) 3 Credit Hours**

Theory and practice course that discusses translation theory and emphasizes Russian-to-English translation of selected texts in business, technology, medicine and law.

**Prerequisite:** RUSS 32231.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Experiential Learning Requirement, Writing Intensive Course

**RUSS 42240 BUSINESS AND SPECIAL TEXTS: RUSSIAN 3 Credit Hours**

(Slashed with RUSS 52240) Survey of the typical text types of business in the Russian culture and language. Practice sessions focus on reading and understanding specialized texts and on the translation and composition of selected special texts in Russian.

**Prerequisite:** RUSS 32211.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**RUSS 42351 SURVEY OF RUSSIAN AND SOVIET LITERATURE 4 Credit Hours**

(Slashed with RUSS 52351) Introduces students to the major movements and authors of Russian, Soviet and post-Soviet literature, beginning with Karamzin and ending with Boris Akunin.

**Prerequisite:** 6 credit hours of upper-division Russian courses (RUSS 30000 and 40000 levels).

**Schedule Type:** Lecture

**Contact Hours:** 4 lecture

**Grade Mode:** Standard Letter

**RUSS 42399 RESEARCH PROJECT IN RUSSIAN LANGUAGE AND LITERATURE (ELR) 3 Credit Hours**

(Repeatable for credit) Thesis or other independent study.

**Prerequisite:** 6 credit hours of 40000-level Russian (RUSS) courses and special approval.

**Schedule Type:** Senior Project/Honors Thesis

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter-IP

**Attributes:** Experiential Learning Requirement

**RUSS 52211 ADVANCED COMPOSITION AND CONVERSATION 3 Credit Hours**

(Slashed with RUSS 42211) Advanced practice in written and oral expression in Russian.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**RUSS 52240 BUSINESS AND SPECIAL TEXTS:RUSSIAN 3 Credit Hours**

(Slashed with RUSS 42240) Survey of the typical text of business in the Russian culture and language. Practice sessions focus on reading and understanding specialized texts and on the translation and composition of selected special texts in Russian.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**RUSS 52351 SURVEY OF RUSSIAN AND SOVIET LITERATURE 4 Credit Hours**

(Slashed with RUSS 42351) Introduces students to the major movements and authors of Russian, Soviet and post-Soviet literature, beginning with Karamzin and ending with Boris Akunin.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 4 lecture

**Grade Mode:** Standard Letter

**RUSS 62010 THE PRACTICE OF RUSSIAN TRANSLATION 2 Credit Hours**

Students apply linguistic and communication science concepts to case studies of language mediation.

**Prerequisite:** Graduate standing.

**Corequisite:** TRST 60010.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**RUSS 62091 SEMINAR 3 Credit Hours**

(Repeatable for credit) Content varies per course offering; topic announced in schedule of classes.

**Prerequisite:** Graduate standing.

**Schedule Type:** Seminar

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**RUSS 62098 RESEARCH 1-15 Credit Hours**

(Repeatable for credit) Research carried out by the student under the supervision of a faculty member. Credits earned applied toward degree requirements if department approves.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Research

**Contact Hours:** 1-15 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**RUSS 62240 LITERARY AND CULTURAL TRANSLATION 3 Credit Hours**

Translation of documents from a variety of literary and cultural sources, including literature, expository and journalistic prose, scholarly treatises and essays. Translation into Russian will also be emphasized.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**RUSS 62250 COMMERCIAL, LEGAL AND DIPLOMATIC TRANSLATION 3 Credit Hours**

An introduction to methods and resources for the translation of commercial, economic, financial, legal, diplomatic and governmental documents.

**Prerequisite:** TRST 60010; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**RUSS 62251 SCIENTIFIC, TECHNICAL AND MEDICAL TRANSLATION 3 Credit Hours**

An introduction to methods and resource for the translation of scientific, technical, industrial and medical documents.

**Prerequisite:** TRST 60010; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**RUSS 62979 CASE STUDY IN TRANSLATION 3 Credit Hours**

Students are responsible for a major translation and a terminology glossary, as well as a critical analysis of the source text, the problems encountered during the translation process and the strategies used to solve them.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Satisfactory/Unsatisfactory

## School Psychology (SPSY)

### SPSY 60093 VARIABLE TITLE WORKSHOP IN SCHOOL PSYCHOLOGY 1-4 Credit Hours

(Repeatable for credit)

**Prerequisite:** Grading standing; and special approval.

**Schedule Type:** Workshop

**Contact Hours:** 1-4 other

**Grade Mode:** Satisfactory/Unsatisfactory

### SPSY 60094 COLLEGE TEACHING 3 Credit Hours

(Repeatable for credit) (Slashed with SPSY 70094) Discusses major aspects of teaching in higher education, including such topics as students' philosophy of teaching, principles of adult learning, instructional strategies, students' assessment.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

### SPSY 60162 DEVELOPMENTAL ASSESSMENT 3 Credit Hours

Reviews the educational, family and regulatory forces that influence success at each significant transition for preschool, kindergarten and primary grade children. 24 clinical/field hours.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

### SPSY 60165 PRINCIPLES OF SOCIAL LEARNING 3 Credit Hours

The main focus is to provide students with an understanding of behavioral and social learning principles within the context of the school psychologist's professional practice. 19 clinical/field hours.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

### SPSY 60191 SEMINAR:SCHOOL PSYCHOLOGY 1-4 Credit Hours

(Repeatable for credit) Seminar in school psychology. Varied topics.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Seminar

**Contact Hours:** 1-4 other

**Grade Mode:** Standard Letter

### SPSY 67592 FIELD EXPERIENCE IN EDUCATION FOR SCHOOL PSYCHOLOGISTS 2 Credit Hours

This field experience provides students with the opportunity to observe various school and educational settings that reflect the typical work scope for school psychologists. Required for those students in school psychology who do not have teaching certificates and have not spent extensive time in public schools. Students are required to complete Bureau of Criminal Investigation and Identification (BCII) and Federal Bureau of Investigation (FBI) background checks and submit the results to authorized personnel at their assigned 'school-agency' before the first day of the semester in which student teaching internship will take place.

**Prerequisite:** School psychology major; and graduate standing.

**Schedule Type:** Field Experience

**Contact Hours:** 8 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

### SPSY 67692 PRACTICUM I IN SCHOOL PSYCHOLOGY 3 Credit Hours

(Repeatable for credit) (Slashed with SPSY 77692) This course provides students with experience, support, and opportunities for reflection related to the foundational domains of the practice of school psychology and ongoing professional development. Students are required to complete Bureau of Criminal Investigation and Identification (BCII) and Federal Bureau of Investigation (FBI) background checks and submit the results to authorized personnel prior to the beginning of any field-based activities.

**Prerequisite:** School psychology major; and graduate standing.

**Schedule Type:** Practical Experience

**Contact Hours:** 9 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

### SPSY 67792 PRACTICUM II IN SCHOOL PSYCHOLOGY 3 Credit Hours

(Repeatable for credit) (Slashed with SPSY 77792) Provides students with applied experience and professional development related to foundational domains of school psychology practice. Students are required to complete Bureau of Criminal Investigation and Identification (BCII) and Federal Bureau of Investigation (FBI) background checks and submit the results to authorized personnel prior to beginning any field-based activities.

**Prerequisite:** SPSY 67692 or SPSY 77692; and school psychology major; and graduate standing.

**Schedule Type:** Practical Experience

**Contact Hours:** 9 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

### SPSY 67892 ADVANCED PRACTICUM IN SCHOOL PSYCHOLOGY 3-6 Credit Hours

(Repeatable for credit) (Slashed with SPSY 77892) Provides students with advanced applied experience in educational, mental health, or behavioral health settings. 60 clock hours per credit hour. Students are required to complete Bureau of Criminal Investigation and Identification (BCII) and Federal Bureau of Investigation (FBI) background checks and submit the results to authorized personnel prior to beginning any field-based activities.

**Prerequisite:** SPSY 67792; and school psychology major; and graduate standing and; special approval.

**Schedule Type:** Practical Experience

**Contact Hours:** 12-24 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**SPSY 67912 ROLE OF THE SCHOOL PSYCHOLOGIST 3 Credit Hours**

Study of role and functions of school psychologists in American education. Includes history of school psychology and future orientation. Five clinical/field hours.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter-IP

**SPSY 67920 DIAGNOSIS OF CHILDHOOD DISORDERS IN SCHOOLS 3 Credit Hours**

Provides overview of diagnosis of child and adolescent behavior disorders (ADHD, conduct problems) emotional and social disorders (depression, anxiety, phobias) and developmental acquired disorders (autism, mental retardation).

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPSY 67925 INTRODUCTION TO NEUROPSYCHOLOGY FOR SCHOOL PSYCHOLOGISTS 1 Credit Hour**

Introduces basic concepts in child neuropsychology with relevance for applied school psychological practice. Topics include biological bases of behavior and implications for educational interventions.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 1 lecture

**Grade Mode:** Standard Letter

**SPSY 67926 INTRODUCTION TO DIGITAL CITIZENSHIP FOR SCHOOL PSYCHOLOGISTS 1 Credit Hour**

(Slashed with SPSY 77926) This course is designed to provide students with an introductory understanding of the fundamental issues and practices of technology in school psychology. Students will gain skills related to: (a) ethical and professional use of technology; (b) evaluate features of various technology systems; (c) identify functional intervention goals to which technology can contribute; and (d) use technology to collect, analyze, summarize, and report student performance to aid instructional decision-making.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 1 lecture

**Grade Mode:** Standard Letter

**SPSY 67928 GROUP COUNSELING TECHNIQUES FOR REHABILITATION COUNSELORS AND SCHOOL PSYCHOLOGISTS 3 Credit Hours**

Review of group counseling techniques for rehab counselors and school psychologists. Skills developed in group process and group leadership. A variety of group interventions will be examined including techniques for persons with disabilities.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPSY 67929 INDIVIDUAL COUNSELING TECHNIQUES FOR REHABILITATION COUNSELORS AND SCHOOL PSYCHOLOGISTS 3 Credit Hours**

(Slashed with SPSY 77929) Review of individual counseling techniques. Skills developed in communication, interviewing, problem identification, goal setting and program development are fostered by lecture, video feedback and simulation.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPSY 67931 PROGRAM DEVELOPMENT AND ETHICAL APPLICATION OF APPLIED BEHAVIOR ANALYSIS 3 Credit Hours**

Describe and apply methodology and research design in monitoring the effectiveness of behavioral interventions and to use such information to evaluate overall program efficacy. Consideration is given to student characteristics (e.g., underlying disability) when developing and evaluating behavior programs based. Use of specific tools for prioritizing behaviors, evaluating progress, and making treatment program decisions are presented. Issues related to ethics, treatment implementation fidelity, and behavioral program development are also emphasized.

**Prerequisite:** SPED 53030; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPSY 67932 ADVANCED INTERVENTIONS FOR ADDRESSING SEVERE BEHAVIOR 3 Credit Hours**

Use and interpretation of functional behavioral assessment in educational settings to lead to the identification of empirically-supported interventions to address the behavioral needs of children. The development, implementation and analysis of functional analysis procedures. Special emphasis given to identifying/designing, implementing and assessing the effectiveness of advanced behavioral interventions in consultation. 20 field hrs.

**Prerequisite:** SPED 53030 and SPSY 67920 or SPSY 77920; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPSY 67951 COGNITIVE ASSESSMENT OF CHILDREN IN SCHOOLS 3 Credit Hours**

Training and experience in administering, scoring and interpreting cognitive measures for children and adolescents and writing reports. 30 clinical/field hours.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPSY 67955 INSTRUCTIONAL ASSESSMENT FOR SCHOOL PSYCHOLOGISTS 3 Credit Hours**

Training in administration, scoring and interpretation of normative and non-normative measures of academic achievement, instructional environment and writing psychoeducational and team reports. 25 clinical/field hours.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPSY 67960 INTERVENTIONS WITH CULTURALLY DIVERSE STUDENTS**  
**3 Credit Hours**

Introduces skills to effectively and ethically implement educational and psychological interventions with culturally diverse children in educational settings. 5 clinical/field hours.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPSY 67965 INSTRUCTIONAL INTERVENTIONS FOR SCHOOL PSYCHOLOGISTS**  
**3 Credit Hours**

Describes design and implementation of evidence-based interventions, methods of data collection and progress monitoring for school based academic referrals within a problem solving model. Requires 25 clinical field hours.

**Prerequisite:** SPSY 67955; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPSY 67970 LEGAL, ETHICAL AND PROFESSIONAL ISSUES IN SCHOOL PSYCHOLOGY**  
**3 Credit Hours**

Ethical, legal and professional issues of school psychologists and counselors will be explored. Considerations of law, regulations, ethical standards and codes of professional practice of related professional organizations will be addressed.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPSY 67971 ISSUES AND APPROACHES IN SCHOOL PSYCHOLOGY**  
**3 Credit Hours**

(Repeatable for a maximum of 6 credit hours) This course describes and illustrates contemporary elements and forces that impact professional service in school psychology practice. Students register for two consecutive semesters in conjunction with internship.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 3 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**SPSY 67972 SOCIAL-EMOTIONAL ASSESSMENT FOR SCHOOL PSYCHOLOGISTS**  
**3 Credit Hours**

Training in administration, scoring and interpretation of techniques for assessment of social emotional functioning and adaptive behavior and writing evaluation team reports. 25 clinical/field hours. Students are required to complete Bureau of Criminal Investigation and Identification (BCII) and Federal Bureau of Investigation (FBI) background checks and submit the results to authorized personnel at their assigned 'school/agency' before the first day of the semester in which student teaching/ internship will take place.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPSY 67973 CONSULTATION IN THE HELPING PROFESSIONS**  
**3 Credit Hours**

Students learn consultation skills and processes utilizing a number of professional models such as Caplan's model, behavior and problem solving models and crisis consultation. 20 clinical/field hours. Students are required to complete Bureau of Criminal Investigation and Identification (BCII) and Federal Bureau of Investigation (FBI) background checks and submit the results to authorized personnel at their assigned 'school/agency' before the first day of the semester in which student teaching/ internship will take place.

**Prerequisite:** Graduate standing.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**SPSY 67974 SOCIAL-EMOTIONAL INTERVENTIONS IN SCHOOL PSYCHOLOGY**  
**3 Credit Hours**

Describes design and implementation of social-emotional interventions for childhood disorders. Reviews progress monitoring for school-based social and emotional referrals within an eco-behavioral problem-solving model. 25 clinical field hours.

**Prerequisite:** SPSY 67972; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPSY 67975 HOME, SCHOOL AND COMMUNITY COLLABORATION**  
**3 Credit Hours**

(Slashed with SPSY 77975) This course is designed to familiarize school psychologists with essential attitudes, approaches, and actions necessary to form successful family-school-community partnerships that can foster development and learning.

**Prerequisite:** School psychology major; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPSY 67995 SPECIAL TOPICS IN SCHOOL PSYCHOLOGY**  
**1-3 Credit Hours**

(Repeatable for credit) Presentations of special interest to students. Offered irregularly. Topics will be announced in schedule of classes booklet.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 1-3 lecture

**Grade Mode:** Standard Letter

**SPSY 67996 INDIVIDUAL INVESTIGATION IN SCHOOL PSYCHOLOGY**  
**1-3 Credit Hours**

(Repeatable for credit) Independent reading and/or research directed by a graduate faculty member.

**Prerequisite:** Graduate standing.

**Schedule Type:** Individual Investigation

**Contact Hours:** 1-3 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**SPSY 67998 INDIVIDUAL RESEARCH IN SCHOOL PSYCHOLOGY**  
**1-9 Credit Hours**

(Repeatable for credit) Student pursues research project on selected aspect of school psychology under supervision of instructor. Arrangements with instructor must be made prior to registration.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Research

**Contact Hours:** 1-9 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP



**SPSY 70093 VARIABLE TITLE WORKSHOP IN SCHOOL PSYCHOLOGY 1-4 Credit Hours**

(Repeatable for credit)

**Prerequisite:** Doctoral standing; and special approval.**Schedule Type:** Workshop**Contact Hours:** 1-4 other**Grade Mode:** Satisfactory/Unsatisfactory**SPSY 70094 COLLEGE TEACHING 3 Credit Hours**

(Repeatable for credit) (Slashed with SPSY 60094) Discusses major aspects of teaching in higher education, including such topics as students' philosophy of teaching, principles of adult learning, instructional strategies, students' assessment.

**Prerequisite:** Doctoral standing.**Schedule Type:** Lecture**Contact Hours:** 3 lecture**Grade Mode:** Standard Letter**SPSY 70162 DEVELOPMENTAL ASSESSMENT 3 Credit Hours**

Reviews the educational, family and regulatory forces that influence success at each significant transition for preschool kindergarten and primary grade children. 24 clinical field hours.

**Prerequisite:** Doctoral standing.**Schedule Type:** Lecture**Contact Hours:** 3 lecture**Grade Mode:** Standard Letter**SPSY 70165 PRINCIPLES OF SOCIAL LEARNING 3 Credit Hours**

The main focus is to provide students with an understanding of behavioral and social learning principles within the context of the school psychologist's professional practice.

**Prerequisite:** Doctoral standing.**Schedule Type:** Lecture**Contact Hours:** 3 lecture**Grade Mode:** Standard Letter**SPSY 70191 SEMINAR:SCHOOL PSYCHOLOGY 1-4 Credit Hours**

(Repeatable for credit) Seminar in school psychology. Varied topics.

**Prerequisite:** Doctoral standing; and special approval.**Schedule Type:** Seminar**Contact Hours:** 1-4 other**Grade Mode:** Standard Letter**SPSY 77592 FIELD EXPERIENCE IN EDUCATION FOR SCHOOL PSYCHOLOGISTS 2 Credit Hours**

This field experience provides students with the opportunity to observe various school and educational settings that reflect the typical work scope for school psychologists. Required for those students in school psychology who do not have teaching certificates and have not spent extensive time in public schools. Students are required to complete Bureau of Criminal Investigation and Identification (BCII) and Federal Bureau of Investigation (FBI) background checks and submit the results to authorized personnel at their assigned 'school-agency' before the first day of the semester in which student teaching internship will take place.

**Prerequisite:** School psychology major; and graduate standing.**Schedule Type:** Field Experience**Contact Hours:** 8 other**Grade Mode:** Satisfactory/Unsatisfactory-IP**SPSY 77692 PRACTICUM I IN SCHOOL PSYCHOLOGY 3 Credit Hours**

(Repeatable for credit) (Slashed with SPSY 67692) This course provides students with experience, support, and opportunities for reflection related to the foundational domains of the practice of school psychology and ongoing professional development. Students are required to complete Bureau of Criminal Investigation and Identification (BCII) and Federal Bureau of Investigation (FBI) background checks and submit the results to authorized personnel prior to the beginning of any field-based activities.

**Prerequisite:** School psychology major; and special approval.**Schedule Type:** Practical Experience**Contact Hours:** 9 other**Grade Mode:** Satisfactory/Unsatisfactory-IP**SPSY 77792 PRACTICUM II IN SCHOOL PSYCHOLOGY 3 Credit Hours**

(Repeatable for credit) (Slashed with SPSY 67792) Provides students with applied experience and professional development related to foundational domains of school psychology practice. Students are required to complete Bureau of Criminal Investigation and Identification (BCII) and Federal Bureau of Investigation (FBI) background checks and submit the results to authorized personnel prior to beginning any field-based activities.

**Prerequisite:** SPSY 67692 or SPSY 77692; and school psychology major; and doctoral standing.**Schedule Type:** Practical Experience**Contact Hours:** 9 other**Grade Mode:** Satisfactory/Unsatisfactory-IP**SPSY 77892 ADVANCED PRACTICUM IN SCHOOL PSYCHOLOGY 3-6 Credit Hours**

(Repeatable for credit) (Slashed with SPSY 67892) Provides students with advanced applied experience in educational, mental health, or behavioral health settings. 60 clock hours per credit hour. Students are required to complete Bureau of Criminal Investigation and Identification (BCII) and Federal Bureau of Investigation (FBI) background checks and submit the results to authorized personnel prior to beginning any field-based activities.

**Prerequisite:** SPSY 77792; and school psychology major; and doctoral standing; and special approval.**Schedule Type:** Practical Experience**Contact Hours:** 12-24 other**Grade Mode:** Satisfactory/Unsatisfactory-IP**SPSY 77912 ROLE OF THE SCHOOL PSYCHOLOGIST 3 Credit Hours**

Study of role and functions of school psychologists in American education. Includes history of school psychology and future orientation. Five clinical field hours.

**Prerequisite:** Doctoral standing.**Schedule Type:** Lecture**Contact Hours:** 3 lecture**Grade Mode:** Standard Letter-IP**SPSY 77920 DIAGNOSIS OF CHILDHOOD DISORDERS IN SCHOOLS 3 Credit Hours**

Provides overview of diagnosis of child and adolescent behavior disorders (ADHD, conduct problems) emotional and social disorders (depression, anxiety, phobias) and developmental acquired disorders (autism, mental retardation).

**Prerequisite:** Doctoral standing.**Schedule Type:** Lecture**Contact Hours:** 3 lecture**Grade Mode:** Standard Letter



**SPSY 77925 INTRODUCTION TO NEUROPSYCHOLOGY FOR SCHOOL PSYCHOLOGISTS 1 Credit Hour**

Introduces basic concepts in child neuropsychology with relevance for applied school psychological practice. Topics include biological bases of behavior and implications for educational interventions.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 1 lecture

**Grade Mode:** Standard Letter

**SPSY 77926 INTRODUCTION TO DIGITAL CITIZENSHIP FOR SCHOOL PSYCHOLOGISTS 1 Credit Hour**

(Slashed with SPSY 67926) This course is designed to provide students with an introductory understanding of the fundamental issues and practices of technology in school psychology. Students will gain skills related to: (a) ethical and professional use of technology; (b) evaluate features of various technology systems; (c) identify functional intervention goals to which technology can contribute; and (d) use technology to collect, analyze, summarize, and report student performance to aid instructional decision-making.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 1 lecture

**Grade Mode:** Standard Letter

**SPSY 77928 GROUP COUNSELING TECHNIQUES FOR REHABILITATION COUNSELORS AND SCHOOL PSYCHOLOGISTS 3 Credit Hours**

Review of group counseling techniques for rehab counselors and school psychologists. Skills developed in group process and group leadership. A variety of group interventions will be examined including techniques for persons with disabilities.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPSY 77929 INDIVIDUAL COUNSELING TECHNIQUES FOR REHABILITATION COUNSELORS AND SCHOOL PSYCHOLOGISTS 3 Credit Hours**

(Slashed with SPSY 67929) Review of individual counseling techniques. Skills developed in communication interviewing problem identification goal setting and program development are fostered by lecture, video feedback and simulation.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPSY 77932 ADVANCED INTERVENTIONS FOR ADDRESSING SEVERE BEHAVIOR 3 Credit Hours**

Use and interpretation of functional behavioral assessment in educational settings to lead to the identification of empirically-supported interventions to address the behavioral needs of children. The development, implementation and analysis of functional analysis procedures. Special emphasis given to identifying/designing, implementing and assessing the effectiveness of advanced behavioral interventions in consultation. 20 field hrs.

**Prerequisite:** SPED 53030 and SPSY 67920 or SPSY 77920; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPSY 77951 COGNITIVE ASSESSMENT OF CHILDREN IN SCHOOLS 3 Credit Hours**

Training and experience in administering, scoring and interpreting cognitive measures for children and adolescents and writing reports. 30 clinical/field hours.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPSY 77955 INSTRUCTIONAL ASSESSMENT FOR SCHOOL PSYCHOLOGISTS 3 Credit Hours**

Training in administration, scoring and interpretation of normative and non-normative measures of academic achievement instructional environment and writing psychoeducational and team reports. 25 clinical field hours.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPSY 77960 INTERVENTIONS WITH CULTURALLY DIVERSE STUDENTS 3 Credit Hours**

Introduces skills to effectively and ethically implement educational and psychological interventions with culturally diverse children in educational settings. 5 clinical/field hours.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPSY 77965 INSTRUCTIONAL INTERVENTIONS FOR SCHOOL PSYCHOLOGISTS 3 Credit Hours**

Describes design and implementation of evidence-based interventions, methods of data collection and progress monitoring for school-based academic referrals within a problem-solving model. Requires 25 clinical field hours.

**Prerequisite:** SPSY 77955; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPSY 77970 LEGAL, ETHICAL AND PROFESSIONAL ISSUES IN SCHOOL PSYCHOLOGY 3 Credit Hours**

Ethical, legal and professional issues of school psychologists and counselors will be explored. Considerations of law, regulations, ethical standards and codes of professional practice of related professional organizations will be addressed.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPSY 77971 ISSUES AND APPROACHES IN SCHOOL PSYCHOLOGY 3 Credit Hours**

(Repeatable for a maximum of 6 credit hours) This course describes and illustrates contemporary elements and forces that impact professional service in school psychology practice. Students register for two consecutive semesters in conjunction with internship.

**Prerequisite:** Doctoral standing; and permission.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 3 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**SPSY 77972 SOCIAL-EMOTIONAL ASSESSMENT FOR SCHOOL PSYCHOLOGISTS 3 Credit Hours**

Training in administration, scoring and interpretation of techniques for assessment of social, emotional functioning and adaptive behavior and writing evaluation team reports. 25 clinical/field hours. Students are required to complete Bureau of Criminal Investigation and Identification (BCII) and Federal Bureau of Investigation (FBI) background checks and submit the results to authorized personnel at their assigned 'school/agency' before the first day of the semester in which student teaching/ internship will take place.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPSY 77973 CONSULTATION IN THE HELPING PROFESSIONS 3 Credit Hours**

Students learn consultation skills and processes utilizing a number of professional models such as Caplan's model, behavior and problem-solving models and crisis consultation. 20 clinical/field hours.

Students are required to complete Bureau of Criminal Investigation and Identification (BCII) and Federal Bureau of Investigation (FBI) background checks and submit the results to authorized personnel at their assigned 'school/agency' before the first day of the semester in which student teaching/ internship will take place.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**SPSY 77974 SOCIAL-EMOTIONAL INTERVENTIONS IN SCHOOL PSYCHOLOGY 3 Credit Hours**

Describes design and implementation of social-emotional interventions for childhood disorders. Reviews progress monitoring for school-based social and emotional referrals within an eco-behavioral problem-solving model. 25 clinical/field hours.

**Prerequisite:** SPSY 77972; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPSY 77975 HOME, SCHOOL AND COMMUNITY COLLABORATION 3 Credit Hours**

(Slashed with SPSY 67975) This course is designed to familiarize school psychologists with essential attitudes, approaches, and actions necessary to form successful family-school-community partnerships that can foster development and learning.

**Prerequisite:** School psychology major; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPSY 77980 INTEGRATING EXPERIENCE IN SCHOOL PSYCHOLOGY 2 Credit Hours**

This course requires student to research, study and develop expertise in a particular facet of school psychology and to present these findings at the conclusion of his/her training program. Restricted to students in school psychology Ed.S. program. 38 clinical field hours.

**Prerequisite:** Doctoral standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Satisfactory/Unsatisfactory

**SPSY 77992 SPECIALIST INTERNSHIP IN SCHOOL PSYCHOLOGY 1-6 Credit Hours**

(Repeatable for credit) The internship experience provides students with the opportunity to develop and practice the professional roles and functions of a school psychologist in an approved school setting. Students complete one academic year of internship in schools (minimum of 1,200 clock hours) under the supervision of a university supervisor and a certified school psychologist who is employed by a school system. Students are required to complete Bureau of Criminal Investigation and Identification (BCII) and Federal Bureau of Investigation (FBI) background checks and submit the results to authorized personnel at their assigned 'school-agency' before the first day of the semester in which student teaching internship will take place.

**Prerequisite:** School psychology major; and graduate standing; and guest students with permission.

**Schedule Type:** Practical Experience

**Contact Hours:** 7-40 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**SPSY 77995 SPECIAL TOPICS IN SCHOOL PSYCHOLOGY 1-3 Credit Hours**

(Repeatable for credit) Presentations of special interest to students. Offered irregularly. Topics will be announced in schedule of classes booklet.

**Prerequisite:** Doctoral standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 1-3 lecture

**Grade Mode:** Standard Letter

**SPSY 77996 INDIVIDUAL INVESTIGATION IN SCHOOL PSYCHOLOGY 1-3 Credit Hours**

(Repeatable for credit) Independent reading and/or research directed by a graduate faculty member.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Individual Investigation

**Contact Hours:** 3 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**SPSY 77998 INDIVIDUAL RESEARCH IN SCHOOL PSYCHOLOGY 1-9 Credit Hours**

(Repeatable for credit) Student pursues research project on selected aspect of school psychology under supervision of instructor.

Arrangements with instructor must be made prior to registration.

**Prerequisite:** Doctoral standing; and special approval.

**Schedule Type:** Research

**Contact Hours:** 1-9 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**SPSY 80090 DOCTORAL RESIDENCY SEMINAR 3 Credit Hours**

Exploration of philosophical, definitional and attitudinal issues in the helping professions. Involvement in current activities of professional life through collaborative work with professors other students and practitioners.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Seminar

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**SPSY 80199 DISSERTATION I 15 Credit Hours**

(Repeatable for credit) Doctoral dissertation for which registration in at least two semesters is required, first of which will be semester in which dissertation work is begun and continuing until the completion of 30 hours.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Dissertation

**Contact Hours:** 3 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**SPSY 80299 DISSERTATION II 15 Credit Hours**

(Repeatable for credit) Continuing registration required of doctoral students who have completed the initial 30 hours of dissertation and continuing until all dissertation requirements are met.

**Prerequisite:** SPSY 80199; and doctoral standing.

**Schedule Type:** Dissertation

**Contact Hours:** 15 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**SPSY 87987 PROFESSIONAL SEMINAR IN SCHOOL PSYCHOLOGY 3 Credit Hours**

A professional seminar focused on the identity, history and development of school psychology with special emphasis on current professional issues.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPSY 87992 DOCTORAL INTERNSHIP IN SCHOOL PSYCHOLOGY 1-6 Credit Hours**

Repeatable for credit) The internship experience provides students with the opportunity to develop and practice the professional roles and functions of a school psychologist in an approved school setting. Students complete one academic year of internship in schools (minimum of 1,500 clock hours) under the supervision of a university supervisor and a licensed school psychologist who is employed by a school system. Students are required to complete Bureau of Criminal Investigation and Identification (BCII) and Federal Bureau of Investigation (FBI) background checks and submit the results to authorized personnel at their assigned 'school-agency' before the first day of the semester in which student teaching internship will take place.

**Prerequisite:** School psychology major; and doctoral standing.

**Schedule Type:** Practical Experience

**Contact Hours:** 10-60 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**SPSY 87998 RESEARCH SEMINAR IN SCHOOL PSYCHOLOGY 3 Credit Hours**

(Repeatable for credit) Selected research topics in school psychology. Significant research literature is reviewed; research design methods and issues are presented and small research projects are conducted.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Research

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

## Social and Behavioral Sciences (SBS)

**SBS 50002 QUANTITATIVE METHODS IN SOCIAL AND BEHAVIORAL SCIENCES 3 Credit Hours**

Introduces basic quantitative methods used in social and behavioral scientific research. First we focus on the measurement of socio-behavioral phenomena and the relationship between measurement and statistics. Next, we examine the interrelated roles of scientific theory and the design of socio-behavioral research studies. Last, we focus on building appropriate multiple linear regression and or analysis of variance statistical models to provide valid analysis of data collected in socio-behavioral research.

**Prerequisite:** BST 52019; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SBS 50020 SOCIAL AND BEHAVIORAL SCIENCE THEORIES 3 Credit Hours**

Examines fundamental social and behavioral science theoretical frameworks that explain health behaviors with an emphasis on application through universal prevention approaches to inform both research and program evaluation designs.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SBS 50030 SEMINAR IN SOCIAL AND BEHAVIOR SCIENCES 3 Credit Hours**

Explores case studies in the social and behavioral sciences on topics that address the leading health indicators including substance use (alcohol, tobacco and other drugs), obesity (physical activity and nutrition), HIV and STIs, mental health, injury, immunization and access to health care, and social determinants of health.

**Prerequisite:** Graduate standing.

**Schedule Type:** Seminar

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**SBS 50196 INDIVIDUAL INVESTIGATION IN SOCIAL AND BEHAVIORAL SCIENCES 1-3 Credit Hours**

(Repeatable for credit) Individual graduate investigation or research in areas related to social and behavioral sciences.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Individual Investigation

**Contact Hours:** 1-3 other

**Grade Mode:** Standard Letter-IP

**SBS 53008 GRANT WRITING IN SOCIAL AND BEHAVIORAL SCIENCES**  
**3 Credit Hours**

Students learn the basics of grant writing for federal and non-federal funding agencies with a particular emphasis on the components of most proposals for funding. This includes rationale for seeking funds, collaborations with community organizations, and working with consultants and subcontractors. Participants also learn about the basic sections of grant writing such as specific aims and hypotheses, developing a literature review, background and significance, research design and methodology, developing a budget and conducting research with human subjects. Participants have an opportunity to write sample grant proposals, learn about the review and scoring process and post-award grant management.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SBS 54634 SOCIAL DETERMINANTS OF HEALTH BEHAVIORS** 3  
**Credit Hours**

Overviews the social determinants of health and the dynamic interplay between individual behaviors and community structures (systems orientation) including public policy, social and built environments, commercial messages, access to services, cultural norms, psychosocial hazards, and poverty both as causal effects that either provide opportunity or constraints to health. Also examines systems approaches to preventing public health threats from issues including substance use (alcohol, tobacco and other drugs), physical inactivity, poor dietary practices, unsafe sexual behaviors, violence and injury, and mental health.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SBS 54700 COMMUNITY-BASED SUBSTANCE ABUSE PREVENTION FOR PUBLIC HEALTH PROFESSIONALS** 3  
**Credit Hours**

This course focuses on prevention science and its application to prevention implementation. It is the first of a series of curricula courses we plan to offer on drug abuse prevention; these courses will add to the elective courses for master's level students in the College of Public Health. This course will be the "core" of this series—that is, students will be required to complete this course before they take another course in the series. The core course (Community –Based Substance Abuse Prevention) provides foundational knowledge for substance abuse prevention. The other courses in the series focus on prevention in specific contexts (e.g., school-based, workplace, media based, etc.). The course will enhance the knowledge and skills of public health professionals to enable them to implement evidence-based substance use prevention interventions and policies. Primary emphasis is on evidence-based interventions and policies and on implementation quality and sustainability.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SBS 54701 COMMUNITY-BASED PUBLIC HEALTH IMPLEMENTATION SYSTEMS** 3  
**Credit Hours**

This course focuses on Public Health prevention science and its application to the implementation of substance use interventions. The content focuses on community systems for addressing substance use problems that affect whole communities. These community systems incorporate evidence-based prevention interventions at various levels of influence within a socio-ecological perspective. Students will examine the development of community organizations that come together to address specific problems, and how they network and integrate with existing organizations that provide community services. The content draws from the International Standards on Drug Use Prevention that were published by the United Nations Office on Drugs and Crime (2013; 2015) and the European Drug Prevention Quality Standards published by the European Monitoring Centre on Drugs and Drug Addiction (2011). Primary emphasis is on evidence-based interventions and policies and on implementation quality and sustainability.

**Prerequisite:** SBS 54700; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SBS 60020 PROGRAM EVALUATION II: APPLICATION IN THE REAL WORLD** 3  
**Credit Hours**

This course provides students with a more in-depth examination of program evaluation for Public Health professionals and the opportunity to apply their evaluation knowledge and skills to an existing health intervention. The content will delve deeply into formative and summative evaluation—including theoretical underpinnings, professional standards, research design and data collection and analysis. Students will be required to apply this knowledge to a selected program and produce an evaluation proposal acceptable for submission to a funding agency.

**Prerequisite:** HPM 53011; and graduate standing.

**Schedule Type:** Seminar

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SBS 60030 CODING FOR QUALITATIVE RESEARCH** 1  
**Credit Hour**

(Slashed with SBS 80030) The purpose of this course is to provide students with a brief but thorough overview of the basic process of coding text-based, unstructured data for qualitative research projects. Focus is on coding for descriptive or basic qualitative research.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 15 lecture

**Grade Mode:** Standard Letter

**SBS 60040 TRANSCRIBING INDIVIDUAL AND GROUP INTERVIEWS FOR QUALITATIVE RESEARCH** 1  
**Credit Hour**

(Slashed with SBS 80040) The purpose of this course is to provide students an overview of, and applied practice in transcribing audio-recorded interview data as preparation for qualitative analysis techniques.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 15 lecture

**Grade Mode:** Standard Letter

**SBS 60191 VARIABLE CONTENT SEMINAR IN SOCIAL AND BEHAVIORAL SCIENCES 1-3 Credit Hours**

(Repeatable for a maximum of 6 credit hours) Seminar on current and important topics in social and behavioral sciences. Subject matter varies depending on the topic.

**Prerequisite:** Graduate standing.

**Schedule Type:** Seminar

**Contact Hours:** 1-3 lecture

**Grade Mode:** Standard Letter

**SBS 60192 PRACTICUM EXPERIENCE IN SOCIAL AND BEHAVIORAL SCIENCES 3,6 Credit Hours**

Observational and participation in public health activities of a public health agency, hospital or other approved organization. The student completes the field experience with joint supervision from the university and approved organization or agency.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Practical Experience

**Contact Hours:** 9-18 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**SBS 60195 SPECIAL TOPICS IN SOCIAL AND BEHAVIORAL SCIENCES 1-3 Credit Hours**

(Repeatable for a maximum of 6 credit hours) Special topics to sample new offerings on topics in social and behavioral sciences.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 1-3 lecture

**Grade Mode:** Standard Letter

**SBS 63010 QUALITATIVE METHODS FOR PUBLIC HEALTH RESEARCH 3 Credit Hours**

(Slashed with 83010) In this course, students will be guided through exploration of the uses and value of qualitative approaches to research with humans through a combination of resource review and guided applied practice. Students will be provided with information about various methodologies that comprise qualitative inquiry, and will engage in practice efforts to analyze provided data, and to assess the quality of research reports.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SBS 63011 QUALITATIVE DATA ANALYSIS 3 Credit Hours**

(Slashed with SBS 83011) Students will be introduced to the process and goals of qualitative data analysis relevant to research design and study purpose, and will be provided opportunities to conduct coding and other types of analysis of qualitative data using both computer assisted and manual processes. Students will focus on descriptive or generic approaches for both qualitative and mixed methods research. Students will additionally learn about and be provided opportunities for guided practice in quality control measures that include creation of an audit trail, 'member checking,' composition of analytic memos, and other forms of researcher initiated documentation.

**Prerequisite:** SBS 63010 or special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SBS 73018 THEORIES OF PREVENTION SCIENCE I 3 Credit Hours**

Provides a background and theoretical review of prevention science as a multi-disciplinary field focusing on systematic inquiry on health behaviors including substance use (alcohol, tobacco and other drugs), physical activity, dietary practices, mental health, violence and injury, and sexual behaviors.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SBS 73019 THEORY PREVENTION SCIENCE II 3 Credit Hours**

This course examines the methods used by prevention science researchers to determine the effectiveness of public health programs. Focus is on advanced formative, process, impact and outcome evaluation methods. Qualitative and quantitative analysis techniques used for assessing program process and effects are discussed in the context of research evaluation.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SBS 73020 ADVANCED METHODS IN PREVENTION SCIENCE 3 Credit Hours**

Focuses primarily on advanced quantitative methods in the application of prevention science.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SBS 80020 PROGRAM EVALUATION II: APPLICATION IN THE REAL WORLD 3 Credit Hours**

This course provides students with a more in-depth examination of program evaluation for Public Health professionals and the opportunity to apply their evaluation knowledge and skills to an existing health intervention. The content will delve deeply into formative and summative evaluation—including theoretical underpinnings, professional standards, measurement, research design and data collection and analysis. Students will be required to apply this knowledge to a selected program and produce an evaluation proposal acceptable for submission to a funding agency.

**Prerequisite:** HPM 53011.

**Schedule Type:** Seminar

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SBS 80030 CODING FOR QUALITATIVE RESEARCH 1 Credit Hour**

(Slashed with SBS 60030) The purpose of this course is to provide students with a brief but thorough overview of the basic process of coding text-based, unstructured data for qualitative research projects. Focus is on coding for descriptive or basic qualitative research; other methodologies are reviewed based on student needs.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 15 lecture

**Grade Mode:** Standard Letter



**SBS 80040 TRANSCRIBING INDIVIDUAL AND GROUP INTERVIEWS FOR QUALITATIVE RESEARCH 1 Credit Hour**

(Slashed with SBS 60040) The purpose of this course is to provide students an overview of, and applied practice in transcribing audio-recorded interview data as preparation for qualitative analysis techniques, using both content-focused and conversation-analytic approaches.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 15 lecture

**Grade Mode:** Standard Letter

**SBS 80100 EMERGING ISSUES IN PREVENTION SCIENCE 3 Credit Hours**

Survey of relevant challenges and issues facing prevention science researchers.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SBS 80191 VARIABLE CONTENT SEMINAR IN SOCIAL AND BEHAVIORAL SCIENCES 1-3 Credit Hours**

(Repeatable for a maximum of 6 credit hours) Seminar on current and important topics in social and behavioral sciences. Subject matter varies depending on the topic.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Seminar

**Contact Hours:** 1-3 lecture

**Grade Mode:** Standard Letter

**SBS 80195 SPECIAL TOPICS IN SOCIAL AND BEHAVIORAL SCIENCES 1-3 Credit Hours**

(Repeatable for a maximum of 6 credit hours) Special topics to sample new offerings on topics in social and behavioral sciences.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 1-3 lecture

**Grade Mode:** Standard Letter

**SBS 80196 INDIVIDUAL INVESTIGATION IN SOCIAL AND BEHAVIORAL SCIENCES 1-3 Credit Hours**

Individual graduate investigation or research in areas related to social and behavioral sciences.

**Prerequisite:** Doctoral standing; and special approval.

**Schedule Type:** Individual Investigation

**Contact Hours:** 3-9 other

**Grade Mode:** Standard Letter-IP

**SBS 80198 DIRECTED RESEARCH IN PREVENTION SCIENCE 1-15 Credit Hours**

(Repeatable for credit) Directed research or individual investigation for doctoral students.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Research

**Contact Hours:** 1-15 other

**Grade Mode:** Standard Letter

**SBS 80199 DISSERTATION I 15 Credit Hours**

(Repeatable for credit) Registration for two semesters required, first semester dissertation work begins and continues until completion of Dissertation II and 30 hours of total dissertation work.

**Prerequisite:** Doctoral standing; and special approval.

**Schedule Type:** Dissertation

**Contact Hours:** 15 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**SBS 80299 DISSERTATION II 15 Credit Hours**

(Repeatable for credit) Second course of dissertation sequence completing requirement of with 30 total hours of dissertation work.

**Prerequisite:** SBS 80199; and special approval.

**Schedule Type:** Dissertation

**Contact Hours:** 15 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**SBS 83010 QUALITATIVE METHODS FOR PUBLIC HEALTH RESEARCH 3 Credit Hours**

(Slashed with SBS 63010) In this course, students will be guided through exploration of the uses and value of qualitative approaches to research with humans through a combination of resource review and applied practice. Students will be provided with information about various methodologies that comprise qualitative inquiry, and will engage in practice efforts to gather, process, and analyze data, and to assess the quality of research reports.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SBS 83011 QUALITATIVE DATA ANALYSIS 3 Credit Hours**

(Slashed with SBS 63011) Students will be introduced to the process and goals of qualitative data analysis relevant to research design and study purpose, and will be provided opportunities to conduct coding and other types of analysis of qualitative data using both computer assisted and manual processes. Qualitative approaches potentially considered in this course include grounded theory, phenomenology, descriptive or generic approaches, content analysis, mixed methods, and others depending on needs and interests of students in the class. Students will additionally learn about and practice quality control measures that include creation of an audit trail, 'member checking,' composition of analytic memos, and other forms of researcher initiated documentation.

**Prerequisite:** SBS 83010 or special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

## Sociology (SOC)

**SOC 12050 INTRODUCTION TO SOCIOLOGY (DIVD) (KSS) 3 Credit Hours**

Scientific approach to understanding social interaction, institutions and organization.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Diversity Domestic, Kent Core Social Sciences, TAG Social and Behavioral Sciences, Transfer Module Social Sciences

**SOC 22100 SOCIOLOGICAL ANALYSIS 3 Credit Hours**

Fundamental study of sociological analysis designed to provide awareness of theoretical and methodological concepts necessary in developing sociological perspective.

**Prerequisite:** SOC 12050.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SOC 22570 UNDERSTANDING DIFFERENCES AND INEQUALITY 3 Credit Hours**

An introduction to the cultural and structural factors creating and sustaining educational, economic and political inequality by race, ethnicity, gender, class and sexual orientation with an emphasis on issues of poverty and immigration.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** TAG Social and Behavioral Sciences

**SOC 22778 SOCIAL PROBLEMS (DIVG) (KSS) 3 Credit Hours**

Contemporary American and global social problems and issues are analyzed from sociological perspectives. Several cases are used to illustrate the emergence, development and decline of problems in social context.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Diversity Global, Kent Core Social Sciences, TAG Social and Behavioral Sciences, Transfer Module Social Sciences

**SOC 24011 INTERPERSONAL RELATIONSHIPS AND FAMILIES 3 Credit Hours**

(Equivalent to HDFS 24011) Exploration of the sociological nature of families across the lifespan, focusing on structure, diversity and life course processes such as dating, mate selection, cohabitation, marriage, parenthood, divorce, remarriage, singlehood, widowhood, parent-child interactions, sexual orientation, inequality and difference.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** TAG Social and Behavioral Sciences

**SOC 31092 PRACTICUM IN SOCIOLOGY (ELR) 1-3 Credit Hours**

(Repeatable for credit) Individual research experience in Sociology.

**Prerequisite:** SOC 32210; and junior standing.

**Schedule Type:** Practical Experience

**Contact Hours:** 1-3 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**Attributes:** Experiential Learning Requirement

**SOC 32005 CAREER PATHWAYS IN SOCIOLOGY AND CRIMINOLOGY AND JUSTICE STUDIES 3 Credit Hours**

This course equips students with an understanding of the career pathways available after completing a major or minor in Sociology or Criminology and Justice Studies. Provides students with a broad overview of career paths in SOC and CRJU while also helping students identify opportunities for internships and research while at KSU.

**Prerequisite:** SOC 12050 or CRIM 12000; and major or minor in sociology or criminal justice; and sophomore standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SOC 32096 INDIVIDUAL INVESTIGATION IN SOCIOLOGY 1-3 Credit Hours**

(Repeatable for credit) Readings and/or research supervised by member of sociology faculty.

**Prerequisite:** SOC 12050; and junior standing; and special approval of instructor.

**Schedule Type:** Individual Investigation

**Contact Hours:** 1-3 other

**Grade Mode:** Standard Letter

**SOC 32210 RESEARCHING SOCIETY (ELR) (WIC) 3 Credit Hours**

Survey of methods and techniques of research; research design and data gathering instruments; qualitative and quantitative analysis.

**Prerequisite:** SOC 12050; and junior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Experiential Learning Requirement, Writing Intensive Course

**SOC 32220 DATA ANALYSIS 3 Credit Hours**

The use of quantitative methods in the analysis of data from social research. Emphasis on descriptive statistics.

**Prerequisite:** SOC 12050.

**Corequisite:** SOC 32221.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SOC 32221 DATA ANALYSIS LABORATORY 1 Credit Hour**

Analysis of sociological data utilizing statistical and electronic data processing tools.

**Corequisite:** SOC 32220.

**Schedule Type:** Laboratory

**Contact Hours:** 3 lab

**Grade Mode:** Standard Letter

**SOC 32400 INDIVIDUAL AND SOCIETY 3 Credit Hours**

Foundations of social psychology; process of socialization; development of social and personal identities; small group and collective behavior; theories of deviance.

**Prerequisite:** SOC 12050.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SOC 32510 SOCIOLOGY OF WORK 3 Credit Hours**

Consideration of world of work across time and cultures with special emphasis on American society. Impact of work on individuals and other social institutions.

**Prerequisite:** SOC 12050.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SOC 32560 SOCIOLOGY OF FAMILIES (DIVD) 3 Credit Hours**

Social history of the American family. Examination of how race, ethnicity, sexual orientation, class, gender and age contribute to variation in the experience and structure of family life in the U.S.

**Prerequisite:** SOC 12050.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Diversity Domestic

**SOC 32565 SOCIOLOGY OF SEXUALITIES (DIVD) 3 Credit Hours**

Examination of the social production, meaning, and consequences of identities, practices, and inequalities related to sexualities, gender identity and gender expression.

**Prerequisite:** SOC 12050.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Diversity Domestic

**SOC 32569 MINORITIES IN THE UNITED STATES (DIVD) 3 Credit Hours**

Considers the nature and significance of minority groups and majority minority relations in the United States. Reviews experiences of racial and ethnic minorities, religious minorities, women, sexual minorities, the elderly and differently abled Americans.

**Prerequisite:** SOC 12050.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Diversity Domestic

**SOC 32570 INEQUALITY IN SOCIETIES (DIVD) 3 Credit Hours**

Sociological analysis of stratification and inequality in societies, and the social structures that produce and maintain them. Particular emphasis on the intersections of race, class and gender in American society.

**Prerequisite:** SOC 12050.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Diversity Domestic

**SOC 32673 URBAN SOCIOLOGY 3 Credit Hours**

Examination of the history and development of urban areas, urban sociological theories and selected topics such as poverty, immigration, race relations and urban planning.

**Prerequisite:** SOC 12050.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SOC 32762 DEVIANT BEHAVIOR 3 Credit Hours**

Overview of classical and contemporary theories and perspectives on the nature, causes and societal management of deviant behavior. Application of theories and perspectives to modern and historical social problems, methods of punishment and policy trends in social control.

**Prerequisite:** SOC 12050.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SOC 42010 DEATH AND DYING 3 Credit Hours**

(Slashed with SOC 52010) Theoretical perspectives and research in human death and dying. Emphasis on applied concerns in medical and helping professions. Topics include social death, death as taboo, medicalization and rationalization of death and dying and disenfranchised grief.

**Prerequisite:** SOC 12050; and junior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SOC 42092 INTERNSHIP IN SOCIOLOGY (ELR) 1-9 Credit Hours**

(Repeatable for credit) Application of sociological knowledge in work or organizational setting. Assist professionals at such sites as social services, hospitals, industry and government. Prerequisite: Minimum 2.0 overall GPA; and sociology major; and junior standing; and special approval

**Prerequisite:** Minimum 2.0 overall GPA; and sociology major; and junior standing; and special approval.

**Schedule Type:** Practical Experience

**Contact Hours:** 3-27 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**Attributes:** Experiential Learning Requirement

**SOC 42093 VARIABLE TITLE WORKSHOP IN SOCIOLOGY 1-6 Credit Hours**

(Repeatable for credit) Concentrates on professional or disciplinary concerns. Specific content to vary according to needs of client groups.

**Prerequisite:** Special approval.

**Schedule Type:** Workshop

**Contact Hours:** 1-6 other

**Grade Mode:** Satisfactory/Unsatisfactory

**SOC 42095 SPECIAL TOPICS IN SOCIOLOGY 3 Credit Hours**

(Repeatable for credit) Offered irregularly when unusual resources and/or opportunities permit. Topic announced when scheduled.

**Prerequisite:** SOC 12050; and junior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SOC 42126 SOCIOLOGICAL THEORIES 3 Credit Hours**

(Slashed with SOC 52126) An examination of classical, modern and postmodern approaches to social theory.

**Prerequisite:** SOC 12050; and junior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SOC 42224 INTERPRETING SOCIAL DATA 3 Credit Hours**

Emphasis on organizing, analyzing and interpreting actual sociological research data making use of basic descriptive and inferential statistics and computer programs.

**Prerequisite:** SOC 32210 or SOC 32220; and special approval.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**SOC 42315 SOCIOLOGY OF GENDER (DIVD) 3 Credit Hours**

(Slashed with SOC 52315) An examination of the institutions, institutional linkages and social processes that contribute to the construction and maintenance of gender and gender inequality.

**Prerequisite:** SOC 12050; and junior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Diversity Domestic

**SOC 42359 SOCIAL MOVEMENTS 3 Credit Hours**

(Slashed with SOC 52359) Investigation of various movements for social change. Examines the origins, developmental characteristics and the purposes of classic and contemporary movements.

**Prerequisite:** SOC 12050; and junior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SOC 42400 SELF AND IDENTITY 3 Credit Hours**

Examines theories and research on the origin and behavioral consequences of identities, self-concept and self-esteem; also examines the relationships between identities and emotions and between self-concept and mental health.

**Prerequisite:** SOC 12050; and junior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SOC 42421 CHILDHOOD IN SOCIETY 3 Credit Hours**

(Slashed with SOC 52421) How socio-historical circumstances shape the perception and experience of childhood as a distinct life stage. The process of childhood socialization in Western societies particularly the United States. An exploration of the distinct role of socializing agents—parents and siblings, school, peers and media.

**Prerequisite:** SOC 12050; and junior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SOC 42478 ADOLESCENCE IN SOCIETY 3 Credit Hours**

(Slashed with SOC 52478) Consideration of the social, cultural and historical forces that shape the experience of this period of the life cycle. Includes examination of gender, class and race differences in adolescence the significance of youth movements, with an emphasis on music as a dominant expression of youth culture.

**Prerequisite:** SOC 12050; and junior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SOC 42558 WEALTH, POVERTY AND POWER 3 Credit Hours**

(Slashed with SOC 52558) Sociological examination of economic stratification; focuses on the translation of class into power via politics, education and collective struggle.

**Prerequisite:** SOC 12050; and junior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SOC 42559 CULTURE AND SOCIETY 3 Credit Hours**

Overview of the sociological analysis of culture, popular culture and the media. Includes examination of key theoretical perspectives, the production and consumption of culture, culture and inequality, and other current issues in the sociological study of culture.

**Prerequisite:** SOC 12050; and sophomore standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SOC 42560 SOCIOLOGY OF FOOD 3 Credit Hours**

(Slashed with SOC 52560) Food is essential, but like every other aspect of our lives, the meaning of food and the experience of its preparation and consumption are socially determined. Course explores the social dimensions of food consumption and production. Students consider the following questions and answer them by developing an understanding of sociological concepts and theories: What do our meals reveal about us – about our history, culture, our gender and race and ethnicity, socio-economic status, religious beliefs and our family life? How does food consumption differ in different societies? How do the media and corporations influence our food choices? What does food mean symbolize and in what ways are these meanings manipulated and why? How is food production carried out in different contexts and what can we learn about the social organization of work from studying food production? How does what we eat contribute to local and global environmental problems?

**Prerequisite:** SOC 12050.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SOC 42561 SOCIOLOGY OF RELIGION 3 Credit Hours**

(Slashed with SOC 52561) Social context of religious ideologies and structures with special reference to religion in America.

**Prerequisite:** SOC 12050; and junior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SOC 42562 SOCIOLOGY OF MENTAL ILLNESS 3 Credit Hours**

A sociology of mental health and illness; focuses on how social factors influence and are influenced by mental health status; topics include definition and measurement, social distribution, social control of mental illness, societal reaction and media coverage.

**Prerequisite:** SOC 12050; and junior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SOC 42563 SOCIOLOGY OF HEALTH AND HEALTH CARE 3 Credit Hours**

(Slashed with SOC 52563) Sociological analysis of health and illness behavior and utilization of health care professions, as well as the organizational, community and societal systems that deal with health and illness.

**Prerequisite:** SOC 12050; and junior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SOC 42564 BUREAUCRATIC ORGANIZATIONS 3 Credit Hours**

(Slashed with SOC 52564) Analysis of structure and functioning of complex organizations in their cultural context.

**Prerequisite:** SOC 12050; and junior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SOC 42568 RACE AND ETHNIC STUDIES (DIVD) 3 Credit Hours**

(Slashed with SOC 52568) Sociological principles underlying racial and ethnic relations in the United States; emphasis on social factors of prejudice, discrimination and assimilation affecting all groups.

**Prerequisite:** SOC 12050; and junior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Diversity Domestic

**SOC 42575 FAMILIES IN A GLOBAL PERSPECTIVE (DIVG) 3 Credit Hours**

Cultural variability with respect to courtship, family relationships, child rearing and other family patterns in societies across different continents, including Africa, Asia and South America.

**Prerequisite:** SOC 12050; and junior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Diversity Global

**SOC 42577 SOCIOLOGY OF FAMILY VIOLENCE 3 Credit Hours**

(Slashed with SOC 52577) Sociological analysis of theories, research and social policy concerning family violence, child abuse and neglect, spouse abuse, elderly abuse, marital rape, sexual abuse of children.

**Prerequisite:** Sociology 12050; and junior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SOC 42879 AGING IN SOCIETY (DIVD) 3 Credit Hours**

(Slashed with SOC 52879) Analysis of demographic, sociological and socio-psychological dimensions of aging.

**Prerequisite:** SOC 12050; and junior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Diversity Domestic

**SOC 43200 SOCIAL STRUCTURE AND INDIVIDUAL LIVES 3 Credit Hours**

Examines conceptualizations for and evidence concerning the effects of social structure on various dimensions of individual lives.

**Prerequisite:** SOC 12050; and junior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SOC 44010 SOCIOLOGICAL PERSPECTIVES IN MEDICINE 3 Credit Hours**

(Slashed with SOC 54010) Sociological perspectives of medicine focusing on community health and public health prevention efforts, rather than traditional medical curricula. Students employ sociological theories and methods to develop community interventions directed at preventing contemporary health problems.

**Prerequisite:** SOC 12050.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter-IP

**SOC 52010 DEATH AND DYING 3 Credit Hours**

(Slashed with SOC 42010) Theoretical perspectives and research in human death and dying. Emphasis on applied concerns in medical and helping professions. Topics include social death, death as taboo, medicalization and rationalization of death and dying, and disenfranchised grief.

**Prerequisite:** Sociology major; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SOC 52126 SOCIOLOGICAL THEORIES 3 Credit Hours**

(Slashed with SOC 42126) An examination of classical, modern and post-modern approaches to social theory.

**Prerequisite:** Sociology major; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SOC 52315 SOCIOLOGY OF GENDER 3 Credit Hours**

(Slashed with SOC 42315) An examination of the institutions, institutional linkages and social processes that contribute to the construction and maintenance of gender and gender inequality.

**Prerequisite:** Sociology major; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SOC 52359 SOCIAL MOVEMENTS 3 Credit Hours**

(Slashed with SOC 42359) Investigation of various movements for social change. Examines the origins, developmental characteristics and the purposes of classic and contemporary movements.

**Prerequisite:** Sociology major; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter



**SOC 52421 CHILDHOOD IN SOCIETY 3 Credit Hours**

(Slashed with SOC 42421) How socio-historical circumstances shape the perception and experience of childhood as a distinct life stage. The process of childhood socialization in Western societies particularly the United States. An exploration of the distinct role of socializing agents—parents and siblings, school, peers and media.

**Prerequisite:** Sociology major; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SOC 52478 ADOLESCENCE IN SOCIETY 3 Credit Hours**

(Slashed with SOC 42478) Consideration of the social, cultural and historical forces that shape the experience of this period of the life cycle. Includes examination of gender, class and race differences in adolescence the significance of youth movements, with an emphasis on music as a dominant expression of youth culture.

**Prerequisite:** Sociology major; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SOC 52558 WEALTH, POVERTY AND POWER 3 Credit Hours**

(Slashed with SOC 42558) Sociological examination of economic stratification in the United States; focuses on the translation of class into power via politics, education and collective struggle.

**Prerequisite:** Sociology major; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SOC 52560 SOCIOLOGY OF FOOD 3 Credit Hours**

(Slashed with SOC 42560) Food is essential, but like every other aspect of our lives, the meaning of food and the experience of its preparation and consumption are socially determined. Course explores the social dimensions of food consumption and production. Students consider the following questions and answer them by developing an understanding of sociological concepts and theories: What do our meals reveal about us – about our history, culture, our gender and race and ethnicity, socio-economic status, religious beliefs and our family life? How does food consumption differ in different societies? How do the media and corporations influence our food choices? What does food mean symbolize and in what ways are these meanings manipulated and why? How is food production carried out in different contexts and what can we learn about the social organization of work from studying food production? How does what we eat contribute to local and global environmental problems?

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SOC 52561 SOCIOLOGY OF RELIGION 3 Credit Hours**

(Slashed with SOC 42561) Social context of religions and their ideologies and structures with special reference to religion in America.

**Prerequisite:** Sociology major; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SOC 52563 SOCIOLOGY OF HEALTH AND HEALTH CARE 3 Credit Hours**

(Slashed with SOC 42563) Sociological analysis of health and illness behavior and utilization of health care professions, as well as the organizational, community and societal systems that deal with health and illness.

**Prerequisite:** Sociology major; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SOC 52564 BUREAUCRATIC ORGANIZATIONS 3 Credit Hours**

(Slashed with SOC 42564) Analysis of structure and functioning of complex organizations in their cultural context.

**Prerequisite:** Sociology major; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SOC 52568 RACE AND ETHNIC STUDIES 3 Credit Hours**

(Slashed with SOC 42568) Sociological principles underlying racial and ethnic relations in the United States; emphasis on social factors of prejudice, discrimination and assimilation affecting all groups.

**Prerequisite:** Sociology major; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SOC 52577 SOCIOLOGY OF FAMILY VIOLENCE 3 Credit Hours**

(Slashed with SOC 42577) Sociological analysis of theories, research and social policy concerning family violence, child abuse and neglect, spouse abuse, elderly abuse, marital rape, sexual abuse of children.

**Prerequisite:** Sociology major; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SOC 52879 AGING IN SOCIETY 3 Credit Hours**

(Slashed with SOC 42879) Analysis of demographic, sociological and sociopsychological dimensions of aging.

**Prerequisite:** Sociology major; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SOC 54010 SOCIOLOGICAL PERSPECTIVES IN MEDICINE 3 Credit Hours**

(Slashed with SOC 44010) Sociological perspectives of medicine focusing on community health and public health prevention efforts, rather than traditional medical curricula. Students employ sociological theories and methods to develop community interventions directed at preventing contemporary health problems.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter-IP

**SOC 61003 CRIMINOLOGICAL THEORY 3 Credit Hours**

(Slashed with SOC 71003) Examines the major theories in criminology that have been used to explain criminal behavior. This course includes analysis of empirical tests, applications of the theories, and social policy implications.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SOC 61004 SOCIOLOGY OF CORRECTIONS 3 Credit Hours**

(Slashed with SOC 71004) Analyzes the correctional institution as a social system: formal structure and informal dynamics. It covers problems and programs found in community corrections as well as the institutional setting. It examines approaches to correctional supervision and treatment through probation, parole, and community residential treatment.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SOC 61005 JUVENILE DELINQUENCY 3 Credit Hours**

(Slashed with SOC 71005) Provides an analysis of the issues and current research related to juvenile delinquency and the juvenile justice process.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SOC 62002 PROFESSIONAL AND ETHICAL ISSUES IN SOCIOLOGY 3 Credit Hours**

(Slashed with SOC 72002) Introduction to professional and ethical issues in the field of sociology including the logic of inquiry, developing effective approaches to independent learning and research, the human subjects review process and plagiarism. Akron 3850:628.

**Prerequisite:** Sociology major; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SOC 62093 VARIABLE TITLE WORKSHOP IN SOCIOLOGY 1-6 Credit Hours**

(Repeatable for credit)(Slashed with SOC 72093) Concentrates on professional or disciplinary concerns. Specific content to vary according to needs of client groups.

**Prerequisite:** Graduate standing.

**Schedule Type:** Workshop

**Contact Hours:** 1-6 other

**Grade Mode:** Satisfactory/Unsatisfactory

**SOC 62100 EARLY SOCIOLOGICAL THEORY 3 Credit Hours**

(Slashed with SOC 72100) An examination of the contributions by pre-1930 social thinkers to contemporary sociological theory. Akron 3850:722.

**Prerequisite:** SOC 52126; and sociology major; and graduate standing.

**Schedule Type:** Seminar

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**SOC 62105 CONTEMPORARY SOCIOLOGICAL THOUGHT 3 Credit Hours**

(Slashed with SOC 62105) Covers major contemporary theories and theorists. Emphasis on functionalism, conflict, exchange, interactionism and systems theory. Neofunctionalism, neo-Marxism, structuration theory and other recent trends are treated. Akron 3850:723.

**Prerequisite:** SOC 62100; and sociology major; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SOC 62199 THESIS I 2-6 Credit Hours**

Thesis students must register for a total of 6 hours, 2 to 6 hours in a single semester distributed over several semesters if desired.

**Prerequisite:** Graduate standing in sociology; and special approval.

**Schedule Type:** Masters Thesis

**Contact Hours:** 2-6 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**SOC 62211 QUANTITATIVE METHODS IN SOCIOLOGY 4 Credit Hours**

Introduction to the use of quantitative research methods for analyzing sociological issues. Includes instruction on each step in the process of empirically verifying a theoretical question, from conceptualization to analysis. Akron 3850:603.

**Prerequisite:** Graduate standing in sociology.

**Schedule Type:** Lecture

**Contact Hours:** 4 lecture

**Grade Mode:** Standard Letter

**SOC 62217 MULTIVARIATE TECHNIQUES IN SOCIOLOGY 4 Credit Hours**

(Slashed with SOC 72217) Advanced multivariate techniques and methodological problems in the analysis of sociological data. Topics include non-experimental causal models and path analysis. Akron 3850:706.

**Prerequisite:** SOC 32220; and sociology major; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 4 lecture

**Grade Mode:** Standard Letter

**SOC 62218 ADVANCED DATA ANALYSIS 4 Credit Hours**

(Slashed with SOC 72218) Critical examination of data analytic techniques having particular relevance to research problems in sociology, with particular emphasis on multi-variate inferential statistics. Akron 3850:709.

**Prerequisite:** SOC 62217; and sociology major; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 4 lecture

**Grade Mode:** Standard Letter

**SOC 62219 QUALITATIVE METHODS IN SOCIOLOGY 4 Credit Hours**

(Slashed with SOC 72219) Study of qualitative methods including interviewing, observation, use of personal documents, archival data and special problems of recording and analyzing qualitative data. Akron 3850:714.

**Prerequisite:** Sociology major; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 4 lecture

**Grade Mode:** Standard Letter

**SOC 62220 SURVEY RESEARCH METHODS 3 Credit Hours**

(Slashed with SOC 72220) An in-depth study of the design and administration of social surveys. Akron 3850:711.

**Prerequisite:** Sociology major; and graduate standing.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**SOC 62221 ADVANCED QUALITATIVE METHODS IN SOCIOLOGY 3 Credit Hours**

(Slashed with SOC 72221) Provides students with the opportunity to conceive, design and carry out their own qualitative research projects. Students also survey readings that are exemplars of high quality and rigorous qualitative research. Topics such as writing, analysis and ethics are covered as students develop and move forward on their own original research. Students must be actively engaged in a qualitative research project to enroll in the course.

**Prerequisite:** SOC 62219; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SOC 62299 THESIS II 2 Credit Hours**

Thesis students must continue registration each semester until all degree requirements are met.

**Prerequisite:** SOC 62199; and graduate standing in sociology; and special approval.

**Schedule Type:** Masters Thesis

**Contact Hours:** 2 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**SOC 62323 SOCIOLOGY OF HEALTH AND ILLNESS 3 Credit Hours**

(Slashed with SOC 72323) Introduction to medical sociology. Topics include health care professions, patient-provider interaction, caregivers, the illness experience, race, ethnicity, gender, socio-economic status, and health and global health.

**Prerequisite:** Sociology major; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SOC 62326 SOCIOLOGY OF MENTAL HEALTH AND MENTAL ILLNESS 3 Credit Hours**

(Slashed with SOC 72326) Sociological examination of the social processes that affect mental health, frame cultural ideas of normality and illness, and define clinical pathology. Akron 3850: 728.

**Prerequisite:** Sociology major; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SOC 62328 STRATIFICATION AND HEALTH 3 Credit Hours**

(Slashed with SOC 72328) Race, social class and gender differences in physical and mental health status, help-seeking behavior and health care. Race, class and gender stratification of health care workers. Akron 3850:726.

**Prerequisite:** Sociology major; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SOC 62330 COMPARATIVE HEALTH CARE SYSTEMS 3 Credit Hours**

(Slashed with SOC 72330) Comparative analysis of health care systems across the globe. Covers historical development and political economy of health care systems, variation in delivery and access to care, and variation in health outcomes.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SOC 62332 SOCIAL CONTROL OF MENTAL ILLNESS 3 Credit Hours**

(Slashed with SOC 72332) Introduction to the sociological perspective regarding social control and mental illness. Topics include the history of mental illness and the asylum, the stratification of mental illness diagnosis and treatment by race, ethnicity, gender, and socio-economic status, and stigma and psychiatric labeling.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SOC 62430 SOCIAL PSYCHOLOGY 3 Credit Hours**

(Slashed with SOC 72430) Examination of social psychological theory and research, both classic and contemporary. Provides student with background and working knowledge of social psychological aspects of social phenomena. Akron 3850: 631.

**Prerequisite:** Sociology major; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SOC 62433 SOCIAL STRUCTURE AND PERSONALITY 3 Credit Hours**

(Slashed with SOC 72433) Examination of contemporary theory and research on linkages between personality and society. Emphasis is on the dynamics of those linkages and their effects on both individuals and social structures. Akron 3850:634.

**Prerequisite:** Sociology major; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SOC 62437 STRUCTURAL SOCIAL PSYCHOLOGY 3 Credit Hours**

(Slashed with SOC 72437) In-depth introduction to structural social psychology, a set of theoretical and methodological approaches and tools that focuses on the development and testing of multi-level, micro-macro accounts of human social interactions, often through the use of formal theorizing and mathematical modeling. Course provides an overview of the theoretical and research empirical methods that are most associated with structural social psychology; cover the main substantive topics in the area; and then conclude with a brief overview of current issues, debates and recent interdisciplinary advances.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SOC 62439 SELF AND IDENTITY 3 Credit Hours**

(Slashed with SOC 72439) Examines theories and research on the origins of and on behavioral and social consequences of identities, self-concept and self-esteem; also examines the relationships between identities and emotions and between self-concept and mental health and well-being.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SOC 62542 SOCIOLOGY OF WORK 3 Credit Hours**

(Slashed with SOC 72542) Examination of work as behavioral phenomenon in human societies; contrasts with nonwork and leisure significance of occupations, professions and work types in organization of work. Akron 3850:649.

**Prerequisite:** Sociology major; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SOC 62546 SOCIAL INEQUALITY 3 Credit Hours**

(Slashed with SOC 62546) An overview of social inequalities, including definitions, causes, identities, structures and consequences. The focus is on social class with attention to intersecting dimensions of inequality. Akron 3850:646.

**Prerequisite:** Sociology major; and Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SOC 62566 SOCIOLOGY OF GENDER 3 Credit Hours**

(Slashed with SOC 72566) Examination of theories and research on gender origins, characteristics and changes. Emphasizes recent empirical research on gender role patterns and processes in various industrial societies. Akron 3850:639.

**Prerequisite:** Graduate standing; and sociology major.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SOC 62760 DEVIANCE 3 Credit Hours**

(Slashed with SOC 72760) Examination of nature, types and controls of deviance; analysis of conceptual levels, theoretical contributions, processes in social labeling and self-labeling, case studies, social consequences and problems. Akron 3850: 663.

**Prerequisite:** Sociology major; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SOC 62870 SOCIOLOGY OF RACE AND ETHNICITY 3 Credit Hours**

(Slashed with SOC 72870) An in-depth study of the theories, models, research approaches and substantive areas that constitute the sociology of race and ethnicity. Akron 3850:651.

**Prerequisite:** Sociology major; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SOC 62872 SOCIAL PSYCHOLOGY AND INEQUALITY 3 Credit Hours**

(Slashed with SOC 72872) Introduces students to sociological social psychological work that examines the reproduction of inequality. Specifically, the course focuses on "generic social processes" in how individuals, through interaction, are complicit or resistant in the reproduction of inequality through processes such as identity work, collective identity work, emotion work, othering and boundary maintenance. Mechanisms for change are also considered.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SOC 62877 SOCIOLOGY OF AGING AND THE LIFE COURSE 3 Credit Hours**

(Slashed with SOC 72877) Study of the sociology of aging and the life course, covering the major stages of young adulthood, mid-life, and later life. Topics include demography of aging, transition to adulthood, educational attainment, romantic relationships and cohabitation, marriage, parenting, work and retirement, theories of aging, aging and social policy, neighborhoods and aging, later life living arrangements, and death and dying.

**Prerequisite:** Sociology major; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SOC 62894 COLLEGE TEACHING OF SOCIOLOGY 3 Credit Hours**

(Repeatable for credit)(Slashed with SOC 72894) Preparation for college teaching. Students may apply a maximum 3 credit hours applicable toward the master's degree with departmental approval. Akron 3850:700.

**Prerequisite:** Graduate standing; and sociology major.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**SOC 62895 SPECIAL TOPICS 3 Credit Hours**

(Repeatable for credit)(Slashed with SOC 72895) Offered irregularly when unusual resources and/or opportunities permit. Topic will be announced when scheduled.

**Prerequisite:** Sociology major; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SOC 62896 INDIVIDUAL INVESTIGATION 1-3 Credit Hours**

(Repeatable for credit)(Slashed with SOC 72896) Intensive pursuit of a subject matter beyond normal course coverage with the possibility of associated research. Students may apply a maximum 6 credit hours combined in individual investigation (SOC 62896, SOC 72896) and research (SOC 62898, SOC 72898) toward the master's degree.

**Prerequisite:** Sociology major; and graduate standing; and special approval.

**Schedule Type:** Individual Investigation

**Contact Hours:** 1-3 other

**Grade Mode:** Satisfactory/Unsatisfactory

**SOC 62898 RESEARCH 1-3 Credit Hours**

(Repeatable for credit)(Slashed with SOC 72898) Pursuit of research interests that can include the student's project and/or a faculty member's project. Student may apply a maximum of 6 credits combined of research (SOC 62898, SOC 72898) and individual investigation (SOC 62896, SOC 72896) toward the master's degree.

**Prerequisite:** Sociology major; and graduate standing; and special approval.

**Schedule Type:** Research

**Contact Hours:** 1-3 other

**Grade Mode:** Satisfactory/Unsatisfactory

**SOC 71003 CRIMINOLOGICAL THEORY 3 Credit Hours**

(Slashed with SOC 61003) Examines the major theories in criminology that have been used to explain criminal behavior. This course includes analysis of empirical tests, applications of the theories, and social policy implications.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter



**SOC 71004 SOCIOLOGY OF CORRECTIONS 3 Credit Hours**

(Slashed with SOC 61004) Analyzes the correctional institution as a social system: formal structure and informal dynamics. It covers problems and programs found in community corrections as well as the institutional setting. It examines approaches to correctional supervision and treatment through probation, parole, and community residential treatment.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SOC 71005 JUVENILE DELINQUENCY 3 Credit Hours**

(Slashed with SOC 61005) Provides an analysis of the issues and current research related to juvenile delinquency and the juvenile justice process.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SOC 72002 PROFESSIONAL AND ETHICAL ISSUES IN SOCIOLOGY 3 Credit Hours**

(Slashed with SOC 62002) Introduction to professional and ethical issues in the field of sociology including the logic of inquiry, developing effective approaches to independent learning and research, the human subjects review process and plagiarism. Akron 3850:628.

**Prerequisite:** Sociology major; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SOC 72093 VARIABLE TITLE WORKSHOP IN SOCIOLOGY 1-6 Credit Hours**

(Repeatable for credit)(Slashed with SOC 62093) Concentrates on professional or disciplinary concerns. Specific content to vary according to needs of client groups.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Workshop

**Contact Hours:** 1-6 other

**Grade Mode:** Satisfactory/Unsatisfactory

**SOC 72100 EARLY SOCIOLOGICAL THEORY 3 Credit Hours**

(Slashed with SOC 62100) An examination of the contributions by pre-1930 social thinkers to contemporary sociological theory. Akron 3850:722.

**Prerequisite:** SOC 52126; and sociology major; and doctoral standing.

**Schedule Type:** Seminar

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**SOC 72105 CONTEMPORARY SOCIOLOGICAL THOUGHT 3 Credit Hours**

(Slashed with SOC 62105) Covers major contemporary theories and theorists. Emphasis on functionalism, conflict, exchange, interactionism and systems theory. Neofunctionalism, neo-Marxism, structuration theory and other recent trends are treated. Akron 3850:723.

**Prerequisite:** SOC 72100; and sociology major; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SOC 72211 QUANTITATIVE METHODS IN SOCIOLOGY 4 Credit Hours**

Introduction to the use of quantitative research methods for analyzing sociological issues. Includes instruction on each step in the process of empirically verifying a theoretical question, from conceptualization to analysis. Akron 3850:603.

**Prerequisite:** Doctoral standing in sociology.

**Schedule Type:** Lecture

**Contact Hours:** 4 lecture

**Grade Mode:** Standard Letter

**SOC 72217 MULTIVARIATE TECHNIQUES IN SOCIOLOGY 4 Credit Hours**

(Slashed with SOC 62217) Advanced multivariate techniques and methodological problems in the analysis of sociological data. Topics include non-experimental causal models and path analysis. Akron 3850:706.

**Prerequisite:** SOC 32220; and sociology major; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 4 lecture

**Grade Mode:** Standard Letter

**SOC 72218 ADVANCED DATA ANALYSIS 4 Credit Hours**

(Slashed with SOC 62218) Crucial examination of data analytic techniques having particular relevance to research problems in sociology, with particular emphasis on multi-variate inferential statistics. Akron 3850:709.

**Prerequisite:** SOC 72217; and sociology major; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 4 lecture

**Grade Mode:** Standard Letter

**SOC 72219 QUALITATIVE METHODS IN SOCIOLOGY 4 Credit Hours**

(Slashed with SOC 62219) Study of qualitative methods including interviewing, observation, use of personal documents, archival data, and special problems of recording and analyzing qualitative data. Akron 3850:714.

**Prerequisite:** Sociology major; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 4 lecture

**Grade Mode:** Standard Letter

**SOC 72220 SURVEY RESEARCH METHODS 3 Credit Hours**

(Slashed with SOC 62220) An in-depth study of the design and administration of social surveys. Akron 3850:711.

**Prerequisite:** Sociology major; and doctoral standing.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**SOC 72221 ADVANCED QUALITATIVE METHODS IN SOCIOLOGY 3 Credit Hours**

(Slashed with SOC 62221) Provides students with the opportunity to conceive, design and carry out their own qualitative research projects. Students also survey readings that are exemplars of high quality and rigorous qualitative research. Topics such as writing, analysis and ethics are covered as students develop and move forward on their own original research. Students must be actively engaged in a qualitative research project to enroll in the course.

**Prerequisite:** SOC 72219; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter



**SOC 72323 SOCIOLOGY OF HEALTH AND ILLNESS 3 Credit Hours**  
 (Slashed with SOC 62323) Introduction to medical sociology. Topics include health care professions, patient-provider interaction, caregivers, the illness experience, race, ethnicity, gender, socio-economic status and health and global health.  
**Prerequisite:** Sociology major; and doctoral standing.  
**Schedule Type:** Lecture  
**Contact Hours:** 3 lecture  
**Grade Mode:** Standard Letter

**SOC 72326 SOCIOLOGY OF MENTAL HEALTH AND MENTAL ILLNESS 3 Credit Hours**  
 (Slashed with SOC 62326) Sociological examination of the social processes that affect mental health, frame cultural ideas of normality and illness, and define clinical pathology. Akron 3850:728.  
**Prerequisite:** Sociology major; and doctoral standing.  
**Schedule Type:** Lecture  
**Contact Hours:** 3 lecture  
**Grade Mode:** Standard Letter

**SOC 72328 STRATIFICATION AND HEALTH 3 Credit Hours**  
 (Slashed with SOC 62328) Race, social, class and gender differences in physical and mental health status, help-seeking behavior and health care. Race, class and gender stratification of health care workers. Akron 3850:726.  
**Prerequisite:** Sociology major; and doctoral major.  
**Schedule Type:** Lecture  
**Contact Hours:** 3 lecture  
**Grade Mode:** Standard Letter

**SOC 72330 COMPARATIVE HEALTH CARE SYSTEMS 3 Credit Hours**  
 (Slashed with SOC 62330) Comparative analysis of health care systems across the globe. Covers historical development and political economy of health care systems, variation in delivery and access to care, and variation in health outcomes.  
**Prerequisite:** Doctoral standing.  
**Schedule Type:** Lecture  
**Contact Hours:** 3 lecture  
**Grade Mode:** Standard Letter

**SOC 72332 SOCIAL CONTROL OF MENTAL ILLNESS 3 Credit Hours**  
 (Slashed with SOC 62332) Introduction to the sociological perspective regarding social control and mental illness. Topics include the history of mental illness and the asylum, the stratification of mental illness diagnosis and treatment by race, ethnicity, gender, and socio-economic status, and stigma and psychiatric labeling.  
**Prerequisite:** Doctoral standing.  
**Schedule Type:** Lecture  
**Contact Hours:** 3 lecture  
**Grade Mode:** Standard Letter

**SOC 72430 SOCIAL PSYCHOLOGY 3 Credit Hours**  
 (Slashed with SOC 62430) Examination of social psychological theory and research, both classic and contemporary. Provides student with background and working knowledge of social psychological aspects of social phenomena. Akron 3850:631.  
**Prerequisite:** Sociology major; and doctoral standing.  
**Schedule Type:** Lecture  
**Contact Hours:** 3 lecture  
**Grade Mode:** Standard Letter

**SOC 72433 SOCIAL STRUCTURE AND PERSONALITY 3 Credit Hours**  
 (Slashed with SOC 62433) Examination of contemporary theory and research on linkages between personality and society. Emphasis is on the dynamics of those linkages and their effects on both individuals and social structures. Akron 3850:634.  
**Prerequisite:** Sociology major; and doctoral standing.  
**Schedule Type:** Lecture  
**Contact Hours:** 3 lecture  
**Grade Mode:** Standard Letter

**SOC 72437 STRUCTURAL SOCIAL PSYCHOLOGY 3 Credit Hours**  
 (Slashed with SOC 62437) In-depth introduction to structural social psychology, a set of theoretical and methodological approaches and tools that focuses on the development and testing of multi-level, micro-macro accounts of human social interactions, often through the use of formal theorizing and mathematical modeling. Course provides an overview of the theoretical and research empirical methods that are most associated with structural social psychology; cover the main substantive topics in the area; and then conclude with a brief overview of current issues, debates and recent interdisciplinary advances.  
**Prerequisite:** Doctoral standing.  
**Schedule Type:** Lecture  
**Contact Hours:** 3 lecture  
**Grade Mode:** Standard Letter

**SOC 72439 SELF AND IDENTITY 3 Credit Hours**  
 (Slashed with SOC 62439) Examines theories and research on the origins of and on behavioral and social consequences of identities, self-concept and self-esteem; also examines the relationships between identities and emotions and between self-concept and mental health and well-being.  
**Prerequisite:** Doctoral standing.  
**Schedule Type:** Lecture  
**Contact Hours:** 3 lecture  
**Grade Mode:** Standard Letter

**SOC 72542 SOCIOLOGY OF WORK 3 Credit Hours**  
 (Slashed with SOC 62542) Examination of work as behavioral phenomenon in human societies; contrasts with nonwork and leisure; significance of occupations, professions and work types in organization of work. Akron 3850:649.  
**Prerequisite:** Sociology major; and doctoral standing.  
**Schedule Type:** Lecture  
**Contact Hours:** 3 lecture  
**Grade Mode:** Standard Letter

**SOC 72546 SOCIAL INEQUALITY 3 Credit Hours**  
 (Slashed with SOC 62546) An overview of social inequalities, including definitions, causes, identities, structures and consequences. The focus is on social class with attention to intersecting dimensions of inequality. Akron 3850:646.  
**Prerequisite:** Sociology major; and doctoral standing.  
**Schedule Type:** Lecture  
**Contact Hours:** 3 lecture  
**Grade Mode:** Standard Letter

**SOC 72566 SOCIOLOGY OF GENDER 3 Credit Hours**  
 (Slashed with SOC 62566) Examination of theories and research on gender origins, characteristics and changes. Emphasizes recent empirical research on gender role patterns and processes in various industrial societies. Akron 3850:639.  
**Prerequisite:** Sociology major; and doctoral standing.  
**Schedule Type:** Lecture  
**Contact Hours:** 3 lecture  
**Grade Mode:** Standard Letter

**SOC 72760 DEVIANCE 3 Credit Hours**

(Slashed with SOC 62760) Examination of nature, types and controls of deviance; analysis of conceptual levels, theoretical contributions, processes in social labeling and self labeling, case studies, social consequences and problems. Akron 3850:663.

**Prerequisite:** Sociology major; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SOC 72870 SOCIOLOGY OF RACE AND ETHNICITY 3 Credit Hours**

(Slashed with SOC 62870) An in-depth study of the theories, models, research approaches and substantive areas that constitute the sociology of race and ethnicity. Akron 3850:651.

**Prerequisite:** Sociology major; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SOC 72872 SOCIAL PSYCHOLOGY AND INEQUALITY 3 Credit Hours**

(Slashed with SOC 62872) Introduces students to sociological social psychology work that examines the reproduction of inequality. Specifically, the course focuses on "generic social processes" in how individuals, through interaction, are complicit or resistant in the reproduction of inequality through processes such as identity work, collective identity work, emotion work, othering and boundary maintenance. Mechanisms for change are also considered.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SOC 72877 SOCIOLOGY OF AGING AND THE LIFE COURSE 3 Credit Hours**

(Slashed with SOC 62877) Study of the sociology of aging and the life course, covering the major stages of young adulthood, mid-life, and later life. Topics include demography of aging, transition to adulthood, educational attainment, romantic relationships and cohabitation, marriage, parenting, work and retirement, theories of aging, aging and social policy, neighborhoods and aging, later life living arrangements, and death and dying. Akron 3850:678.

**Prerequisite:** Sociology major; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SOC 72894 COLLEGE TEACHING OF SOCIOLOGY 3 Credit Hours**

(Repeatable for credit)(Slashed with SOC 62894) Preparation for college teaching. Course may not be applied toward the doctoral degree. Akron 3850:700.

**Prerequisite:** Sociology major; and graduate standing.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**SOC 72895 SPECIAL TOPICS 3 Credit Hours**

(Repeatable for credit)(Slashed with SOC 62895) Offered irregularly when unusual resources and/or opportunities permit. Topic will be announced when scheduled.

**Prerequisite:** Sociology major; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SOC 72896 INDIVIDUAL INVESTIGATION 1-3 Credit Hours**

(Repeatable for credit)(Slashed with SOC 62896) Intensive pursuit of a subject matter beyond normal course coverage with the possibility of associated research. Students may apply a maximum 6 credit hours combined in individual investigation (SOC 72896) and research (SOC 72898) toward the doctoral degree.

**Prerequisite:** Sociology major; and doctoral standing; and special approval.

**Schedule Type:** Individual Investigation

**Contact Hours:** 1-3 other

**Grade Mode:** Satisfactory/Unsatisfactory

**SOC 72898 RESEARCH 1-3 Credit Hours**

(Repeatable for credit)(Slashed with SOC 62898) Pursuit of research interests that can include the student's project and/or a faculty member's project. Student may apply a maximum of 6 credits combined of research (SOC 72898) and individual investigation (SOC 72896) toward the doctoral degree.

**Prerequisite:** Sociology major; and doctoral standing; and special approval.

**Schedule Type:** Research

**Contact Hours:** 1-3 other

**Grade Mode:** Satisfactory/Unsatisfactory

**SOC 82199 DISSERTATION I 15 Credit Hours**

(Repeatable for credit) Doctoral dissertation, for which registration in at least two semesters is required first of which will be semester in which dissertation is begun and continuing until 30 hours are completed. Akron 3850: 899.

**Prerequisite:** Doctoral standing; and special approval.

**Schedule Type:** Dissertation

**Contact Hours:** 15 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**SOC 82299 DISSERTATION II 15 Credit Hours**

(Repeatable for credit) Continuing registration required of doctoral students who have completed the initial 30 hours of dissertation and continuing until all degree requirements are met.

**Prerequisite:** Doctoral standing; and special approval.

**Schedule Type:** Dissertation

**Contact Hours:** 15 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

## Spanish (SPAN)

**SPAN 18201 ELEMENTARY SPANISH I 4 Credit Hours**

An introduction to the Spanish language in the context of Hispanic cultures.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 4 lecture

**Grade Mode:** Standard Letter

**SPAN 18202 ELEMENTARY SPANISH II 4 Credit Hours**

A continuation of the introduction to the Spanish language in the context of Hispanic cultures.

**Prerequisite:** SPAN 18201.

**Schedule Type:** Lecture

**Contact Hours:** 4 lecture

**Grade Mode:** Standard Letter

**SPAN 18301 SPANISH FOR HEALTH CARE I 4 Credit Hours**

Introduction to the Spanish language in the context of health care situations, tasks and terminology and Hispanic cultures.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 4 lecture

**Grade Mode:** Standard Letter

**SPAN 18302 SPANISH FOR HEALTH CARE II 4 Credit Hours**

A continuation of the introduction to the Spanish language in the context of health care situations, tasks and terminology and Hispanic cultures.

**Prerequisite:** SPAN 18301.

**Schedule Type:** Lecture

**Contact Hours:** 4 lecture

**Grade Mode:** Standard Letter

**SPAN 28201 INTERMEDIATE SPANISH I 3 Credit Hours**

A continuation of the development of listening, speaking, reading and writing skills using a variety of material on the Spanish language in the context of Hispanic cultures.

**Prerequisite:** SPAN 18202.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** TAG Foreign Language

**SPAN 28202 INTERMEDIATE SPANISH II 3 Credit Hours**

A continuation of the development of listening, speaking, reading and writing skills using a variety of material on the Spanish language in the context of Hispanic cultures and specific areas of study like culture, business, justice, etc. Credit may be given for SPAN 28202 or SPAN 28206 but not for both.

**Prerequisite:** SPAN 28201.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** TAG Foreign Language

**SPAN 28206 SPANISH READING FOR COMPREHENSION 3 Credit Hours**

Further develops skills and techniques for understanding written Spanish; conducted in English. Credit not applicable toward Spanish major or minor. Students may obtain credit in SPAN 28202 or SPAN 28206 but not both.

**Prerequisite:** SPAN 28201.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPAN 38211 SPANISH GRAMMAR AND COMPOSITION 3 Credit Hours**

This course focuses on progressively increasing grammatical competence to communicate in writing through the development of skills to describe, narrate, expose and create arguments on general interest, and academic topics.

**Prerequisite:** SPAN 28202 with a minimum C grade.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPAN 38213 SPANISH READING AND CONVERSATION 3 Credit Hours**

This course will provide continuous opportunities to practice Spanish based on selected non-literary and literary readings (such as poems, essays, short stories, theater, and short novels) and film. The readings and films cover diverse topics, such as art, politics, history, culture, and literature. We will concentrate on building vocabulary, reading skills, speaking and listening skills, reviewing important grammatical structures, and practicing the analysis of literature, culture, and current events.

**Prerequisite:** SPAN 28202 with a minimum C- grade.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPAN 38215 SPANISH PHONETICS AND DICTION 3 Credit Hours**

Study of the modern Spanish language sounds and practical application through extensive interactive listening and speaking activities addressing various Hispanic culture.

**Prerequisite:** SPAN 28202 with a minimum C grade.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPAN 38231 TRANSLATION PRACTICE: SPANISH 1 Credit Hour**

Translation practice with Spanish texts using principles and techniques learned in the lecture class. To be taken concurrently with TRST 30230.

**Corequisite:** TRST 30230.

**Schedule Type:** Lecture

**Contact Hours:** 1 lecture

**Grade Mode:** Standard Letter

**SPAN 38240 CONVERSATION FOR BUSINESS AND SPECIAL PURPOSES: SPANISH 3 Credit Hours**

Introduction to the special vocabulary of business and other special subject areas; introduces the concept of language for special purposes and emphasizes the use of special vocabularies in conversations in business and other settings.

**Prerequisite:** SPAN 38213.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPAN 38303 MEDICAL SPANISH TRANSLATION AND INTERPRETING 3 Credit Hours**

An introduction to medical translation and interpreting, also known as healthcare translation and interpreting. Sociolinguistic, legal, and pragmatic dimensions of translation, cross-cultural health literacy, intercultural competency, text analysis, common medical text types and basic terminology; text production in English of Spanish medical documents, strategies of research, documentation and transfer. The rudiments of interpreting in health care environments; protocol, ethics, and credentialing in the language mediation industry; public health policy as it affects Latino and Latina populations. Spanish-English, English-Spanish language combination. Note: translation refers to written texts; interpreting to spoken language.

**Prerequisite:** SPAN 28202.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPAN 38330 EARLY SPANISH LITERATURE (ELR) (WIC) 3 Credit Hours**

Outline of development, reading of representative works to 1700.

**Prerequisite:** SPAN 38211.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Experiential Learning Requirement, Writing Intensive Course

**SPAN 38331 RECENT SPANISH LITERATURE (ELR) (WIC) 3 Credit Hours**

Outline of development, reading of representative works 1700 present.

**Prerequisite:** SPAN 38211.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Experiential Learning Requirement, Writing Intensive Course

**SPAN 38334 EARLY SPANISH-AMERICAN LITERATURE (ELR) (WIC) 3 Credit Hours**

Outline of development, reading of representative works including indigenous literature, 1492-1882.

**Prerequisite:** SPAN 38211.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Experiential Learning Requirement, Writing Intensive Course

**SPAN 38335 RECENT SPANISH-AMERICAN LITERATURE (ELR) (WIC) 3 Credit Hours**

Outline of the development of modern Spanish-American literature (1882 to the present). Reading of representative works.

**Prerequisite:** SPAN 38211.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Experiential Learning Requirement, Writing Intensive Course

**SPAN 38421 CIVILIZATION OF SPAIN 3 Credit Hours**

General survey of evolution of Spanish civilization from antiquity to present day.

**Prerequisite:** SPAN 38211.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPAN 38424 CULTURE AND CIVILIZATION OF LATIN AMERICA 3 Credit Hours**

This course focuses on a study of the historical and cultural development of Latin America, with emphasis on Spanish America, as reflected in its geography, history, art, political and social institutions encompassing from Pre-Hispanic times to the present.

**Prerequisite:** SPAN 38211 or SPAN 38213.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPAN 48093 VARIABLE TITLE WORKSHOP IN SPANISH 1-6 Credit Hours**

(Repeatable for credit) Workshops individually designed to provide instruction and training in specific areas of Hispanic studies.

**Prerequisite:** Departmental permission.

**Schedule Type:** Workshop

**Contact Hours:** 1-6 other

**Grade Mode:** Satisfactory/Unsatisfactory

**SPAN 48095 SELECTED TOPICS IN SPANISH 3 Credit Hours**

(Repeatable for a maximum of 9 credit hours) Topic announced in Schedule of Classes.

**Prerequisite:** 9 hours above 20000-level of Spanish courses.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPAN 48096 INDIVIDUAL INVESTIGATION 1-3 Credit Hours**

(Repeatable for a maximum of 6 credit hours) Allows the advanced, serious student to carry out research study project on Spanish literature language or culture. Prior approval of supervising faculty member department required.

**Prerequisite:** Special approval.

**Schedule Type:** Individual Investigation

**Contact Hours:** 1-3 other

**Grade Mode:** Standard Letter-IP

**SPAN 48215 ADVANCED SPANISH COMPOSITION AND CONVERSATION 3 Credit Hours**

Focuses on description, summary, narration, exposition and argumentation on topics dealing with diverse areas of Hispanic culture as presented through literary and non-fiction texts.

**Prerequisite:** SPAN 38211 and SPAN 38213; and one of SPAN 38330 or SPAN 38331 or SPAN 38334 or SPAN 38335; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPAN 48216 CONTEMPORARY HISPANIC CULTURE 3 Credit Hours**

A study of selected sociological, political, cultural or economic issues in the contemporary Hispanic world.

**Prerequisite:** 6 hours from 30000-level Spanish courses.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPAN 48230 ADVANCED TRANSLATION PRACTICE: SPANISH (ELR) (WIC) 3 Credit Hours**

Theory and practice course that discusses translation theory and emphasizes Spanish-to-English translation of selected texts in business, technology, medicine and law.

**Prerequisite:** SPAN 38231.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Experiential Learning Requirement, Writing Intensive Course

**SPAN 48240 BUSINESS AND SPECIAL TEXTS: SPANISH 3 Credit Hours**

Survey of the typical text types of business in the Spanish culture and language. Practice sessions focus on reading and understanding specialized texts and on the translation and composition of selected special texts in Spanish.

**Prerequisite:** SPAN 38211.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter



**SPAN 48325 IDENTITY, POLITICS AND GENDER IN PUERTO RICAN FICTION 3 Credit Hours**

(Slashed with SPAN 58325) This course focuses on critical analyses of a diverse corpus of literary pieces written by prominent Puerto Rican authors. It addresses the following topics: the jíbarao identity vis a vis the political and cultural practices of americanización (Americanization), the migratory waves from the countryside to San Juan and the United States, and constructs of gender and LGBTQ identity articulated in the literary discourse.

**Prerequisite:** SPAN 38421 or SPAN 38424.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPAN 48376 CONTEMPORARY SPANISH-AMERICAN SHORT STORY 3 Credit Hours**

The development of the Spanish-American short story from 1917 to the present.

**Prerequisite:** 6 hours from SPAN 38330 and SPAN 38331 and SPAN 38334 and SPAN 38335.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPAN 48378 U.S. LATINA/O WRITERS 3 Credit Hours**

The course focuses on a representative selection of literary pieces in Spanish by recent U.S. Latino writers developing oral and listening skills in Spanish and strengthening critical thinking on various cultural and literary matters.

**Prerequisite:** SPAN 38211 and SPAN 38213; and one of the following: SPAN 38330 or SPAN 38331 or SPAN 38334 or SPAN 38335.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPAN 48422 EARLY SPANISH-AMERICAN DISCOURSE 3 Credit Hours**

This course provides a critical analysis of cultural and literary issues on texts dealing with early colonial Spanish-American expression.

**Prerequisite:** SPAN 38213 and SPAN 38334.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPAN 48491 SEMINAR IN MODERN SPAIN 3 Credit Hours**

(Slashed with SPAN 58491) In-depth study of modern Spain, including themes such as art, literature, film, history, politics, social movements, and other manifestations of modern Spain. Historical and political topics such as the Spanish transition to democracy, the post-transition disillusion, neoliberalism in Spain, Nationalisms of the periphery, and social movements like the 'Indignados' or 15M may be covered. Artistic and cultural movements and genres such as 'La movida Madrileña,' the popular novel, and the detective novel and film noir may also be covered.

**Prerequisite:** Minimum C grade in three SPAN 30000-level (or higher) courses.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPAN 58095 SELECTED TOPICS IN SPANISH 3 Credit Hours**

(Repeatable for a maximum of 15 credit hours) Topic to be announced in semester schedule of classes.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPAN 58216 CONTEMPORARY HISPANIC CULTURE 3 Credit Hours**

A study of selected sociological, political, cultural or economic issues in the contemporary Hispanic world.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPAN 58325 IDENTITY, POLITICS AND GENDER IN PUERTO RICAN FICTION 3 Credit Hours**

(Slashed with SPAN 48325) This course focuses on critical analyses of a diverse corpus of literary pieces written by prominent Puerto Rican authors. It addresses the following topics: the jíbarao identity vis a vis the political and cultural practices of americanización (Americanization), the migratory waves from the countryside to San Juan and the United States, and constructs of gender and LGBTQ identity articulated in the literary discourse.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPAN 58376 CONTEMPORARY SPANISH-AMERICAN SHORT STORY 3 Credit Hours**

The development of the Spanish-American short story from 1917 to the present.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPAN 58378 U.S. LATINA/O WRITERS 3 Credit Hours**

The course focuses on a representative selection of literary pieces in Spanish by recent U.S. Latino writers developing oral and listening skills in Spanish and strengthening critical thinking on various cultural and literary matters.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPAN 58422 EARLY SPANISH-AMERICAN DISCOURSE 3 Credit Hours**

This course provides a critical analysis of cultural and literary issues on texts dealing with early colonial Spanish-American expression.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter



**SPAN 58491 SEMINAR IN MODERN SPAIN 3 Credit Hours**

(Slashed with SPAN 48491) In-depth study of late 20th and early 21st-century Spain, including themes such as art, literature, film, history, politics, social movements, and other manifestations of contemporary Spain. Historical and political topics such as the Spanish transition to democracy, the post-transition disillusion, neoliberalism in Spain, Nationalisms of the periphery, and social movements like the 'Indignados' or 15M may be covered. Artistic and cultural movements and genres such as 'La movida Madrileña,' the popular novel, and the detective novel and film noir may also be covered.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPAN 68010 THE PRACTICE OF SPANISH TRANSLATION 2 Credit Hours**

Students apply linguistic and communication science concepts to case studies of language mediation.

**Prerequisite:** Graduate standing.

**Corequisite:** TRST 60010.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**SPAN 68093 VARIABLE TITLE WORKSHOP IN SPANISH 1-6 Credit Hours**

(Repeatable for credit) Workshops individually designed to provide instruction and training in specific areas of Spanish studies. S/U graded.

**Prerequisite:** Permission.

**Schedule Type:** Workshop

**Contact Hours:** 1-6 other

**Grade Mode:** Satisfactory/Unsatisfactory

**SPAN 68095 SELECTED TOPICS 3 Credit Hours**

(Repeatable for credit) Selected topics on Spanish literature or linguistics.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPAN 68098 RESEARCH 1-15 Credit Hours**

(Repeatable for credit) Research or individual investigation for master's level graduate students. Credits earned applied toward degree requirements if department approves.

**Prerequisite:** Special approval.

**Schedule Type:** Research

**Contact Hours:** 1-15 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**SPAN 68191 SEMINAR IN FICTION 3 Credit Hours**

(Repeatable for credit) Intensive study of one or two major writers or of a movement in the history of Spanish and Spanish-American fiction.

**Prerequisite:** Graduate standing.

**Schedule Type:** Seminar

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**SPAN 68199 THESIS I 2-6 Credit Hours**

Thesis students must register for a total of 6 hours, 2 to 6 hours in a single semester distributed over several semesters if desired.

**Prerequisite:** Graduate standing.

**Schedule Type:** Masters Thesis

**Contact Hours:** 2-6 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**SPAN 68215 ADVANCED SPANISH COMPOSITION AND CONVERSATION 3 Credit Hours**

Focuses on description, summary, narration, exposition and argumentation on topics dealing with diverse areas of Hispanic culture as presented through literary and non-fiction texts.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPAN 68231 TRANSLATION INTO SPANISH 3 Credit Hours**

Provides advanced intensive practice in the translation of a variety of texts into Spanish. Translation issues and appropriate strategies are identified. Also provides practice in the evaluation of translations, the identification of professional issues, and an advanced review of linguistic and grammatical aspects of Spanish as they apply to translation.

Class meetings are conducted in a workshop format based on weekly assignments of readings and translation exercises.

**Prerequisite:** TRST 60010 and SPAN 68010; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPAN 68240 LITERARY AND CULTURAL TRANSLATION 3 Credit Hours**

Translating documents from a variety of literary and cultural sources, including literature, expository and journalistic prose, scholarly treatises and essays. Translation into Spanish will also be emphasized.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPAN 68250 COMMERCIAL, LEGAL AND DIPLOMATIC TRANSLATION 3 Credit Hours**

An introduction to methods and resources for the translation of commercial, economic financial legal diplomatic and governmental documents.

**Prerequisite:** TRST 60010; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPAN 68251 SCIENTIFIC, TECHNICAL AND MEDICAL TRANSLATION 3 Credit Hours**

An introduction to methods and resources for the translation of scientific, technical, industrial and medical documents.

**Prerequisite:** TRST 60010; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPAN 68299 THESIS II 2 Credit Hours**

Thesis students must continue registration each semester until all degree requirements are met.

**Prerequisite:** SPAN 68199; and graduate standing.

**Schedule Type:** Masters Thesis

**Contact Hours:** 2 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**SPAN 68391 SEMINAR IN THEATRE 3 Credit Hours**

(Repeatable for credit) Intensive study of one or two major dramatists or movements in the history of Spanish and Spanish-American theatre.

**Prerequisite:** Graduate standing.

**Schedule Type:** Seminar

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**SPAN 68591 SEMINAR IN POETRY 3 Credit Hours**

(Repeatable for credit) Intensive study of one or two major poets or of a movement in the history of Spanish and Spanish-American poetry.

**Prerequisite:** Graduate standing.

**Schedule Type:** Seminar

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**SPAN 68979 CASE STUDY IN TRANSLATION 3 Credit Hours**

Students will be responsible for a major translation and a terminology glossary as well as a critical analysis of the source text, the problems encountered during the translation process and the strategies used to solve them.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Satisfactory/Unsatisfactory

## Special Education (SPED)

**SPED 23000 INTRODUCTION TO EXCEPTIONALITIES (DIVD) 3 Credit Hours**

Introduction to student exceptionalities, service delivery/placement options and multidisciplinary team process. Focus on identification of characteristics definition and identification procedures of students with exceptionalities. Students will undertake 15 clinical hours.

**Prerequisite:** None.

**Schedule Type:** Clinical Laboratory, Lecture

**Contact Hours:** 3 lecture, 1 other

**Grade Mode:** Standard Letter

**Attributes:** Diversity Domestic, TAG Education

**SPED 24000 INCLUSIVE PRACTICES 3 Credit Hours**

Overview of current special education issues as they relate to inclusive practices. Students gain an understanding of the challenges faced by exceptional students and analyze the responsibilities of educational professionals in addressing these challenges. Students develop a productive orientation toward effective instruction in inclusive settings through a study of legal, practical, professional and attitudinal issues relevant to inclusive education.

**Prerequisite:** SPED 23000.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPED 40093 WORKSHOP IN SPECIAL EDUCATION 1-5 Credit Hours**

(Slashed with SPED 50093 and SPED 70093)(Repeatable for credit)

Topics of special interest to students desiring to intensify their knowledge in particular areas. Presenters include Kent State University faculty and other institutions. Offered irregularly.

**Prerequisite:** None.

**Schedule Type:** Workshop

**Contact Hours:** 1-5 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**SPED 42030 ISSUES IN MODERATE-INTENSIVE DISABILITIES 3 Credit Hours**

(Slashed with SPED 52030) Addresses a variety of topics relevant to the education of students with moderate to intensive (MDIN) educational needs, including contemporary issues, evidence-based interventions and the understanding and addressing of mental health issues in educational environments. Prepares pre-service MDIN teachers to understand challenges they are likely to encounter in the classroom, and connects them with local and national professional development resources to help address those challenges.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPED 42951 EARLY INTERVENTION IN NATURAL ENVIRONMENTS 3 Credit Hours**

Course targets a broad array of early childhood professionals that comprise the field of early intervention from practitioners to future leaders in the field. Primary focus is on identifying natural opportunities for infants and toddlers to acquire and practice functional skills and behaviors. Recommended practice guidelines of the Division for Early Childhood indicate that interventions should be embedded and distributed within and across the routines, activities and places that are part of the child's daily experience. Course explores issues related to the various natural environments of the children in search of the routines, activities and places that offer the maximum learning and practice opportunities that are family-centered, developmentally and individually appropriate, culturally sensitive and least intrusive.

**Prerequisite:** Minimum 2.750 overall GPA; and junior or senior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPED 43010 FAMILY AND PROFESSIONAL COLLABORATION 3 Credit Hours**

(Slashed with SPED 53010) Course provides knowledge and strategies for working with family members of exceptional individuals and members of related professions who provide services to them. Use of collaborative, interdisciplinary and inter-agency models in special education. Students undertake 20 clinical and 10 field hours.

**Prerequisite:** Admission to advanced study; and SPED 23000.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPED 43021 ASSESSMENT FOR SPECIAL EDUCATION 3 Credit Hours**

(Slashed with SPED 53021) Investigates issues and methods for assessing the academic, behavioral, physiological, mental health, and life skills of individuals with mild, moderate, and intensive disabilities. Interpretation of norm- and criterion formal assessments, creation of alternative assessments, modification of informal assessments, ecological and community-based assessments specific to individuals with low incidence and multiple disabilities.

**Prerequisite:** SPED 23000.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPED 43022 INDIVIDUALIZED PROGRAMMING AND ASSESSMENT IN SPECIAL EDUCATION 3 Credit Hours**

(Slashed with SPED 53022) Course provides students with the knowledge and skills to select appropriate screening and assessment tools for the purpose of determining eligibility for special education services. In addition, students learn how to administer, score and use assessment results to develop an individualized education program (IEP) for students identified with disabilities.

**Prerequisite:** Admission to advanced standing; and SPED 24000.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPED 43030 APPLIED BEHAVIOR ANALYSIS I: THEORY AND TECHNIQUES 3 Credit Hours**

Theory and techniques associated with applied behavior analysis. Approaches for establishing, implementing, maintaining and monitoring skill development are emphasized. Procedures for assessing and modifying classroom environments/instructional techniques to enhance learning/behavior of individuals with disabilities, with specific emphasis on preventing, increasing positive and decreasing inappropriate behavior are introduced. 25 field hours.

**Prerequisite:** Admission to advanced study; and SPED 23000.

**Schedule Type:** Field Experience, Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPED 43031 APPLIED BEHAVIOR ANALYSIS II: APPLICATION 3 Credit Hours**

Equips students with the skills necessary to integrate the technology of applied behavior analysis (as learned in SPED 43030, Applied Behavior Analysis I) with the analytical skills necessary to prevent, teach, manage and assess behavior. Specific behavioral interventions are presented. Includes 40 field hours.

**Prerequisite:** Admission to advanced study; and SPED 43030.

**Schedule Type:** Field Experience, Lecture

**Contact Hours:** 1 lecture, 2 other

**Grade Mode:** Standard Letter

**SPED 43040 LANGUAGE AND READING IN SPECIAL EDUCATION 3 Credit Hours**

(Slashed with SPED 53040) Course focuses on instructional approaches to teaching reading and language arts to students with disabilities. Major emphasis throughout is on research-based techniques to improve student reading performance, focusing on the direct instruction approach to teaching reading. Students develop intervention strategies to adapt instructional techniques, materials and assessments to meet the needs of diverse learners with disabilities.

**Prerequisite:** Admission to advanced study; and SPED 23000.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPED 43041 SUPPLEMENTAL AND INTENSIVE INSTRUCTION FOR MATHEMATICAL DIFFICULTIES 3 Credit Hours**

This course provides students with the knowledge and skills to plan, deliver, and evaluate supplemental and intensive math instruction using research-based programs and practices. Data based individualization will be used to determine what and how to teach to promote mastery and understanding of critical math skills and concepts. Students learn effective strategies and instructional approaches for improving outcomes for students experiencing persistent difficulties learning math, including students with disabilities.

**Prerequisite:** Admission to advanced study.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPED 43050 CHARACTERISTICS OF STUDENTS WITH MILD/MODERATE INTERVENTION NEEDS 3 Credit Hours**

Definitions, causes and characteristics and social and educational implications of learning developmental and emotional/behavioral disorders of students identified with mild/moderate disabilities. Methods of assessment and interventions current issues. 10 clinical and 10 field hours.

**Prerequisite:** SPED 23000.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPED 43051 CHARACTERISTICS OF STUDENTS WITH MODERATE/INTENSIVE INTERVENTION NEEDS 3 Credit Hours**

Overview of specific facets and causes of severe disabilities, physical/psychological aspects, family societal responses political trends etiology and medical implications educational and vocational programming assessment and treatment planning assistive technology. 10 clinical 10 field hours.

**Prerequisite:** SPED 23000.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPED 43060 CURRICULUM METHODS IN SPECIAL EDUCATION 3 Credit Hours**

Curriculum development, programming, delivery for students with mild, moderate or intensive disabilities. Emphasis on application of state standards to IEP development. Adapting instructional techniques, materials, assessment to meet needs. 33 field/clinical hours.

**Prerequisite:** Admission to advanced study.

**Schedule Type:** Field Experience, Lecture

**Contact Hours:** 1 lecture, 2 other

**Grade Mode:** Standard Letter

**SPED 43062 CURRICULUM METHODS MILD/MODERATE INTERVENTION 3 Credit Hours**

(Slashed with SPED 53062) Effective methods for teaching students with mild to moderate disabilities. Research-based practices for individualizing the general education curriculum. Emphasis on specially designed instruction, collaboration, and team-based problem solving.

**Prerequisite:** Admission to advanced study; and SPED 24000.

**Corequisite:** SPED 44092.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPED 43063 CURRICULUM METHODS MODERATE/INTENSIVE INTERVENTION 3 Credit Hours**

(Slashed with SPED 53063) Delivery and adaptation of evidence based practices for students with moderate to intensive educational needs. An emphasis is placed on instruction of functional academic and life skills within naturalistic contexts.

**Prerequisite:** Admission to advanced study.

**Corequisite:** SPED 44192.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPED 43070 PLANNING AND PROGRAMMING FOR TRANSITIONS 3 Credit Hours**

This course discusses transitions that occur throughout the lifespan for individuals with and without disabilities, and the planning, support development and services available to successfully accomplish them. Introduction to community agencies and adult services.

**Prerequisite:** SPED 43050 or SPED 43051.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPED 43080 ASSISTIVE TECHNOLOGY FOR STUDENTS WITH DISABILITIES 3 Credit Hours**

Examines application of high and low technology assistive devices for students with intensive intervention needs. Analysis of technology needs; selection/development of technology; training/evaluation of technology use by students. 20 clinical hours.

**Prerequisite:** Admission to advanced study; and SPED 43050 or SPED 43051.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPED 43092 DEAF RESIDENTIAL SCHOOL FIELD EXPERIENCE (ELR) 1 Credit Hour**

(Repeatable for credit) Week-long practicum at a residential school for the deaf; 24-hour interaction with deaf students and adults. Students stay on campus. Conduct, interaction, sign language skills, maturity, responsibility and performance are evaluated by staff at the school.

**Prerequisite:** Admission to advanced study or admission to professional phase; and ASL 49309 or SPED 43309.

**Pre/corequisite:** ASL 29202.

**Schedule Type:** Practical Experience

**Contact Hours:** 8.33 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**Attributes:** Experiential Learning Requirement

**SPED 43306 FUNDAMENTALS OF AUDIOLOGY FOR STUDENTS WITH HEARING LOSS 3 Credit Hours**

(Slashed with SPED 53306) This course focuses on providing non-audiology majors, specifically deaf education, educational interpreting, and ASL majors, with knowledge to support and serve children with a variety of hearing disorders in the educational setting.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPED 43307 LISTENING, LANGUAGE AND PHONEMIC DEVELOPMENT FOR INDIVIDUALS WITH HEARING LOSS 3 Credit Hours**

(Slashed with SPED 53307) This class focuses on listening, language and phonemic development for individuals with hearing loss. Specific areas will focus on typical language development and the impacts of hearing loss on language development in receptive, expressive, semantic, phonological, social, morphological and syntactical domains with an emphasis on reading and written language. The Auditory-Visual continuum, SCALES, along with strategies for zone of development will be focused on with auditory development strategies.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPED 43309 INTRODUCTION TO DEAF STUDIES (ELR) (WIC) 3 Credit Hours**

(Cross-listed with ASL 49309) (Slashed with SPED 53309) Introductory survey course designed to provide informational base and understanding of the unique experiences of Deaf people as a cultural minority. Course includes a discussion of: the history of deaf education, etiology and prevalence data, service delivery systems, the process of diagnosis and discovery of hearing loss, issues associated with assessment, and the various communication systems used by deaf individuals. Specifically, topics discussed will include historical, medical, and cultural perspectives regarding the interactions between Deaf and hearing cultural groups and the resulting impact on social, academic-educational, and vocational experiences of deaf children, adults, and their families.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Experiential Learning Requirement, Writing Intensive Course

**SPED 43310 LANGUAGE DEVELOPMENT FOR DEAF AND HARD-OF-HEARING STUDENTS 3 Credit Hours**

(Slashed with SPED 53310) Reviews research, theories and theorists in the field of language development for hearing and deaf children; develops awareness of language differences commonly demonstrated by deaf and hard-of hearing children; demonstrates ways to assess linguistic differences and facilitate instruction. Six topic areas include theories of language development (review), language and cognition, normal language acquisition in signed and spoken languages, child-caregiver interaction, language learning in a bilingual setting and language assessment. Students gain foundational understanding of language development and awareness of classroom applications for this knowledge. Includes 20 hours of field-lab experience. Deaf Education majors must achieve a minimum grade of B (3.000) in SPED 43309 before registering for this course.

**Prerequisite:** Admission to advanced study; and SPED 43309; and ASL 19202; and special education major or ASL english interpreting major.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPED 43311 INSTRUCTION OF DEAF/HARD-OF-HEARING STUDENTS WITH SPECIAL NEEDS 3 Credit Hours**

IEP and transition planning strategies and program content for deaf/hard-of-hearing students w/ADHD, BD, DD, VI, DB, LD, CMI, TBI, chronically health impaired/medically fragile, gifted. Curriculum and lesson development and adaptation for impacted areas.

**Prerequisite:** Admission to advanced study; and SPED 43313 with a minimum B grade.

**Corequisite:** 2 credit hours of SPED 43392.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPED 43313 LITERACY ASSESSMENT AND INTERVENTION FOR DEAF/HARD-OF-HEARING STUDENTS 6 Credit Hours**

(Slashed with SPED 53313) Theoretical overview of integrated linguistics curriculum and reading theories. Strategies to address DHH difficulties and barriers, instructional planning and materials design, and ongoing assessment strategies. Course includes a practicum placement.

**Prerequisite:** Admission to advanced study; and SPED 43310 with a minimum B grade; and CI 47504 or ECED 40126.

**Pre/corequisite:** ASL 29202.

**Corequisite:** 2 credit hours of SPED 43392.

**Schedule Type:** Lecture

**Contact Hours:** 6 lecture

**Grade Mode:** Standard Letter

**SPED 43324 CURRICULUM METHODS AND MATERIALS FOR DEAF/HARD-OF-HEARING STUDENTS 3 Credit Hours**

Designed to provide students with basic knowledge and skills needed to effectively design and implement instruction for deaf and hard-of-hearing students. Conducted through a combination of lectures, discussions, demonstrations and group activities. Upon successful completion, students possess foundational understanding of how to design and implement lessons and curriculum with students who are deaf and hard of hearing.

**Prerequisite:** Admission to advanced study; and SPED 43313 with a minimum C grade; CI 47501 and 47502.

**Corequisite:** 2 credit hours of SPED 43392.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPED 43392 PRACTICUM:DEAF EDUCATION (ELR) 1-3 Credit Hours**

(Repeatable for a maximum of 3 credit hours) This classroom and field-based experience is designed to provide students pre-service deaf education teachers with the opportunity to develop professional-level skills in working with deaf and hard-of-hearing (DHH) students. The field component will provide experience in working with DHH students with diverse needs, disabilities and ethnic-cultural backgrounds. The class will address appropriate lesson planning and implementation and meets at least 6 times per semester.

**Prerequisite:** None.

**Schedule Type:** Practical Experience

**Contact Hours:** 3-9 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**Attributes:** Experiential Learning Requirement

**SPED 43953 FAMILY PROFESSIONAL COLLABORATION IN EARLY CHILDHOOD 3 Credit Hours**

The course is specifically designed to examine issues facing families and professionals serving young children with disabilities and those who are at-risk. This course will provide students with theory, general principles, and procedures for fostering partnerships among families, professionals, students, and other stakeholders that lead to outcomes of individual and mutual empowerment.

**Prerequisite:** Minimum 2.750 overall GPA; and junior or senior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPED 43954 PRACTICAL APPLICATION: TEAMING 3 Credit Hours**

The purpose of this course is to help students understand and apply the principles of effective collaborative teaming as related to their professional roles and responsibilities in a variety of educational settings serving young children with disabilities. A range of topics will be addressed throughout the course, including team models, consultation, reflective practices, effective meetings, conflict resolution and communication skills and coaching.

**Prerequisite:** Minimum 2.750 overall GPA; and junior or senior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPED 43955 TYPICAL AND ATYPICAL DEVELOPMENT IN YOUNG CHILDREN 3 Credit Hours**

This course provides an overview of typical and atypical development in young children from birth through age eight, both at the pre-natal and peri-natal levels. Traditional and modern theories of development are discussed within an ecological framework, with an emphasis on brain research, risk factors, culture, and the implications of atypical development as it relates to play and learning. Emphasis on the interrelatedness of development as well as the sequences of development (pedagogical, developmental and logical) is explored.

**Prerequisite:** Minimum 2.750 overall GPA; and junior or senior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPED 43958 FOUNDATIONS IN EARLY CHILDHOOD SERVICES 3 Credit Hours**

This course is designed to provide an overview of topics and issues in regard to young children with disabilities within the context of family and current society. This course is a foundational course relevant to early childhood intervention (ECI) professionals from a variety of fields, and includes the current practices in serving young children and their families. All the information provided is interdisciplinary, inclusive and family-focused by nature. The core principles of the Individuals with Disabilities Education Improvement Act (IDEIA) will be reviewed with specific emphasis on Part B 619 and Part C provisions.

**Prerequisite:** Minimum 2.750 overall GPA; and junior or senior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter



**SPED 43964 ASSESSMENT AND EVALUATION IN EARLY INTERVENTION AND EARLY CHILDHOOD SPECIAL EDUCATION 3 Credit Hours**

This course provides an overview of assessment and evaluation in early childhood services. We will examine a range of systems for comparing and observing early childhood services, practices, for young children and families including: screening, eligibility, programmatic assessment, performance monitoring, program evaluation, and accountability. The theoretical concepts of assessment and program evaluation in early childhood services will be investigated in this course, and there will also be opportunities for you to apply this knowledge of assessment instruments, curriculum and instructional strategies and program evaluation methods to intervention settings. Issues and trends related to assessing young children with disabilities (e.g., assessing family outcomes, cultural and linguistic differences) will also be discussed.

**Prerequisite:** Minimum 2.750 overall GPA; and junior or senior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPED 43991 SEMINAR IN SPECIAL EDUCATION 1-3 Credit Hours**

(Repeatable for credit) Undergraduate seminar in special education; varied topics.

**Prerequisite:** Admission to advanced study.

**Schedule Type:** Seminar

**Contact Hours:** 1-3 other

**Grade Mode:** Standard Letter

**SPED 43992 FIELD EXPERIENCE IN SPECIAL EDUCATION (ELR) 3 Credit Hours**

Provides opportunity to observe master teachers and begin working with students. Students are placed in education-based settings and work with a team of professionals to understand techniques for providing services to students with exceptionalities. Additional seminar meetings.

**Prerequisite:** SPED 23000.

**Schedule Type:** Practical Experience

**Contact Hours:** 9 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**Attributes:** Experiential Learning Requirement

**SPED 43995 SPECIAL TOPICS IN SPECIAL EDUCATION 1-4 Credit Hours**

(Repeatable for credit) Selected topics intended to encourage interdisciplinary study to cover areas not treated adequately in traditional coursework and to make available promptly the new and significant experience of faculty within Special Education.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 1-4 lecture

**Grade Mode:** Standard Letter

**SPED 43996 INDIVIDUAL INVESTIGATION IN SPECIAL EDUCATION 1-10 Credit Hours**

(Repeatable for credit) (Cross-listed with ASL 49096)

**Prerequisite:** Special approval.

**Schedule Type:** Individual Investigation

**Contact Hours:** 1-10 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**SPED 44020 MEDICAL ASPECTS OF AUTISM SPECTRUM DISORDERS 3 Credit Hours**

(Cross-listed with SPA 44020) Description of medical issues facing individuals with autism spectrum disorders (ASD) and their families. Examination of etiology, co-occurring disabilities and disorders, and treatment options in relation to individuals with ASD.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPED 44092 FIELD EXPERIENCE FOR MILD/MODERATE INTERVENTION SPECIALIST (ELR) 3 Credit Hours**

Field assignments in conjunction with mild-moderate coursework. Evaluates students in personal conduct, communication skills, instructional design and methods, and impact on student learning aligned with CEC standards.

**Prerequisite:** Admission to advanced study.

**Corequisite:** SPED 43062.

**Schedule Type:** Practical Experience

**Contact Hours:** 9 other

**Grade Mode:** Satisfactory/Unsatisfactory

**Attributes:** Experiential Learning Requirement

**SPED 44192 FIELD EXPERIENCE FOR MODERATE/INTENSIVE INTERVENTION SPECIALIST (ELR) 3 Credit Hours**

(Repeatable for credit) Field assignments in conjunction with moderate-intensive coursework. Evaluates students in personal conduct, communication skills, instructional design and methods, and impact on student learning aligned with CEC standards.

**Prerequisite:** Admission to advanced study.

**Corequisite:** SPED 43063.

**Schedule Type:** Practical Experience

**Contact Hours:** 9 other

**Grade Mode:** Satisfactory/Unsatisfactory

**Attributes:** Experiential Learning Requirement

**SPED 44309 AUTISM SPECTRUM DISORDERS: THEORY AND DIAGNOSIS 3 Credit Hours**

(Cross-listed with SPA 64309 and SPA 74309) (Slashed with SPED 64309)

Provides an overview of Autism Spectrum Disorders (ASD). Examines the history, characteristics, and prevalence of ASD. Assessment and intervention models are explored as they relate to various theoretical models for understanding ASD.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPED 44492 STUDENT TEACHING IN SPECIAL EDUCATION (ELR)****4-9 Credit Hours**

Provides opportunity to demonstrate skills in teaching. Students placed in education-based settings; assume total teaching responsibilities of students with exceptionalities for 480 clock hours under the supervision of the school-based mentor teacher and the university supervisor. Students are required to complete Bureau of Criminal Investigation and Identification (BCII) and Federal Bureau of Investigation (FBI) background checks and submit the results to authorized personnel at their assigned school-agency before the first day of the semester in which student teaching internship will take place. Official valid certification of Child Safety Training, approved Basic Life Support and A.L.I.C.E. Training must be presented to the campus office of clinical experience or designated faculty-staff at Regional campuses as prerequisite for student teaching. Training must be presented to the campus office of clinical experience or designated faculty/staff at college of applied and technical studies' campuses as prerequisite for student teaching.

**Prerequisite:** Admission to advanced study; and official valid certification of child safety Training, approved Basic Life Support and ALICE.

**Corequisite:** SPED 49525.

**Schedule Type:** Practical Experience

**Contact Hours:** 17-35 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**Attributes:** Experiential Learning Requirement

**SPED 44951 CREATING LEGALLY DEFENSIBLE INDIVIDUAL FAMILY SERVICE PLANS AND INDIVIDUALIZED EDUCATION PROGRAMS (WIC) 3 Credit Hours**

In this course, students will become familiar with the federal law and state rules as well as recommended practices governing IFSP and IEP development. Students will use this knowledge to competently develop and prepare to implement IFSP outcomes and strategies, and or IEP goals, objectives and benchmarks through the identification of appropriate strategies as well as related supports and services. Family-centered, strengths-based planning and collaboration within the teaming approach will be emphasized. Students will learn about the process of facilitating the development, implementation, and monitoring of the IFSP and IEP as well as learn about the products of this process.

**Prerequisite:** Minimum 2.750 overall GPA; and junior or senior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Writing Intensive Course

**SPED 45089 VARIABLE TOPIC INTERNATIONAL EXPERIENCE IN SPECIAL EDUCATION (ELR) 1-4 Credit Hours**

(Slashed with SPED 55089 and SPED 75089) A faculty-led study abroad experience that integrates traditional classroom learning with experiential activities and site visits outside the United States. International experience courses may have pre- and post-travel classroom study. Course activities may include, but are not limited to, classroom study, research, field work, internships and service learning.

**Prerequisite:** None.

**Schedule Type:** International Experience

**Contact Hours:** 1-4 other

**Grade Mode:** Standard Letter-IP

**Attributes:** Experiential Learning Requirement

**SPED 45090 VARIABLE TOPIC STUDY AWAY EXPERIENCE IN SPECIAL EDUCATION (ELR) 1-4 Credit Hours**

(Slashed with SPED 55090 and SPED 75090) A faculty-led study out-of-classroom experience that integrates traditional classroom learning with experiential activities and site visits within the United States. Study away courses may have pre- and post-travel classroom study. Course activities may include, but are not limited to, classroom study, research, field work, internships and service learning.

**Prerequisite:** None.

**Schedule Type:** Study Away

**Contact Hours:** 1-4 other

**Grade Mode:** Standard Letter-IP

**Attributes:** Experiential Learning Requirement

**SPED 49525 INQUIRY SEMINAR INTO PROFESSIONAL PRACTICE 3 Credit Hours**

Focus on effective, ethical and responsible implication of professional practice. Provides vehicle to articulate and demonstrate professional competencies, commitment and ethical decision making for providing services to students.

**Prerequisite:** Admission to advanced study.

**Corequisite:** SPED 44492.

**Schedule Type:** Seminar

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**SPED 50093 VARIABLE TITLE WORKSHOP IN SPECIAL EDUCATION 1-5 Credit Hours**

(Slashed with SPED 40093 and 70093)(Repeatable for credit) Topics of special interest to students desiring to intensify their knowledge in particular areas. Presenters include Kent State University and other institution faculty. Offered irregularly.

**Prerequisite:** Graduate standing.

**Schedule Type:** Workshop

**Contact Hours:** 1-5 other

**Grade Mode:** Satisfactory/Unsatisfactory

**SPED 52030 ISSUES IN MODERATE-INTENSIVE DISABILITIES 3 Credit Hours**

(Slashed with SPED 42030) Addresses a variety of topics relevant to the education of students with moderate to intensive (MDIN) educational needs, including contemporary issues, evidence-based interventions and the understanding and addressing of mental health issues in educational environments. Prepares pre-service MDIN teachers to understand challenges they are likely to encounter in the classroom, and connects them with local and national professional development resources to help address those challenges.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPED 53010 FAMILY AND PROFESSIONAL COLLABORATION 3 Credit Hours**

(Slashed with SPED 43010) Course provides knowledge and strategies for working with family members of exceptional individuals and members of related professions who provide services to them. Use of collaborative, interdisciplinary and inter-agency models in special education. Students undertake 20 clinical and 10 field hours.

**Prerequisite:** SPED 63200; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPED 53021 ASSESSMENT FOR SPECIAL EDUCATION 3 Credit Hours**

(Slashed with SPED 43021) Investigates issues and methods for assessing the academic, behavioral, physiological, mental health, and life skills of individuals with mild, moderate, and intensive disabilities. Interpretation of norm- and criterion formal assessments, creation of alternative assessments, modification of informal assessments, ecological and community-based assessments specific to individuals with low incidence and multiple disabilities.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPED 53022 INDIVIDUALIZED PROGRAMMING AND ASSESSMENT IN SPECIAL EDUCATION 3 Credit Hours**

(Slashed with SPED 43022) Course provides students with the knowledge and skills to select appropriate screening and assessment tools for the purpose of determining eligibility for special education services. In addition, students learn how to administer, score and use assessment results to develop an Individualized Education Program (IEP) for students identified with disabilities.

**Prerequisite:** SPED 24000; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPED 53030 APPLIED BEHAVIOR ANALYSIS I: THEORY AND TECHNIQUES 3 Credit Hours**

Theory and techniques associated with applied behavior analysis. Approaches for establishing, implementing, maintaining and monitoring skill development are emphasized. Procedures for assessing and modifying classroom environments/instructional techniques to enhance learning/behavior of individuals with disabilities, with specific emphasis on preventing, increasing positive and decreasing inappropriate behavior are introduced. 25 field hours.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPED 53031 APPLIED BEHAVIOR ANALYSIS II: APPLICATION 3 Credit Hours**

Equips students with the skills necessary to integrate the technology of applied behavior analysis (as learned in SPED 43030, Applied Behavior Analysis I) with the analytical skills necessary to prevent, teach, manage and assess behavior. Specific behavioral interventions are presented. Includes 40 field hours.

**Prerequisite:** SPED 53030; and graduate standing.

**Schedule Type:** Field Experience, Lecture

**Contact Hours:** 1 lecture, 2 other

**Grade Mode:** Standard Letter

**SPED 53040 LANGUAGE AND READING IN SPECIAL EDUCATION 3 Credit Hours**

(Slashed with SPED 43040) This course focuses on instructional approaches to teaching language and reading to students with disabilities. The major emphasis throughout the course will be on research based techniques to improve student reading performance, focusing on the direct instruction approach to teaching reading. The course will also include intervention strategies to adapt instructional techniques, materials and assessments to meet the needs of diverse learners with disabilities.

**Prerequisite:** SPED 63200; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPED 53041 SUPPLEMENTAL AND INTENSIVE INSTRUCTION FOR MATHEMATICAL DIFFICULTIES 3 Credit Hours**

(Slashed with SPED 43041) This course provides students with the knowledge and skills to plan, deliver, and evaluate supplemental and intensive math instruction using research-based programs and practices. Data based individualization will be used to determine what and how to teach to promote mastery and understanding of critical math skills and concepts. Students learn effective strategies and instructional approaches for improving outcomes for students experiencing persistent difficulties learning math, including students with disabilities.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPED 53050 CHARACTERISTICS OF STUDENTS WITH MILD/MODERATE INTERVENTION NEEDS 3 Credit Hours**

Definitions, causes, characteristics; social, educational implications of learning developmental and emotional behavioral disorders of students identified with mild/moderate disabilities. Methods of assessment and interventions; current issues. 10 clinical and 10 field hours.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPED 53051 CHARACTERISTICS OF STUDENTS WITH MODERATE/INTENSIVE INTERVENTION NEEDS 3 Credit Hours**

Overview of specific facets and causes of severe disabilities, physical/psychological aspects family/societal responses, political trends, etiology and medical implications, educational and vocational programming, assessment and treatment planning, assistive technology. 10 clinical 10 field hours.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPED 53060 CURRICULUM METHODS IN SPECIAL EDUCATION 3 Credit Hours**

Curriculum development, programming, delivery for students with mild to moderate disabilities. Introduction to transition planning. Emphasis on functional curriculum and adapting instructional techniques, materials, assessment to meet needs. 33 field clinical hours.

**Prerequisite:** Graduate standing.

**Schedule Type:** Field Experience, Lecture

**Contact Hours:** 3 lecture, 33 other

**Grade Mode:** Standard Letter

**SPED 53062 CURRICULUM METHODS MILD/MODERATE INTERVENTION 3 Credit Hours**

(Slashed with SPED 43062) Effective methods for teaching students with mild to moderate disabilities. Research-based practices for individualizing the general education curriculum. Emphasis on specially designed instruction, collaboration, and team-based problem solving.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPED 53063 CURRICULUM METHODS MODERATE/INTENSIVE INTERVENTION 3 Credit Hours**

(Slashed with SPED 43063) Delivery and adaptation of evidence based practices for students with moderate to intensive educational needs. An emphasis is placed on instruction of functional academic and life skills within naturalistic contexts.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPED 53070 PLANNING AND PROGRAMMING FOR TRANSITIONS 3 Credit Hours**

This course addresses life-span community participation and the planning, support, development, and services available to accomplish it. Introduction to community agencies and adult services. 10 clinical 15 field hours.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPED 53080 ASSISTIVE TECHNOLOGY FOR STUDENTS WITH DISABILITIES 3 Credit Hours**

Examines application of high and low technology assistive devices for students with intensive intervention needs. Analysis of technology needs; selection/development of technology; training/evaluation of technology use by students. 20 clinical hours.

**Prerequisite:** SPED 53050 or SPED 53051; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPED 53092 DEAF RESIDENTIAL SCHOOL FIELD EXPERIENCE 1 Credit Hour**

(Slashed with SPED 43092) Week-long practicum at a residential or post-secondary school for the deaf; 24-hour per day interaction with deaf students and adults to learn about and participate in activities, resources, and programs and interact with staff with expertise in deafness.

**Prerequisite:** SPED 53309; and graduate standing.

**Pre/corequisite:** ASL 29202.

**Schedule Type:** Practical Experience

**Contact Hours:** 8 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**SPED 53100 SURVEY OF THE INTERPRETING PROFESSION 3 Credit Hours**

(Cross-listed with ASEI 43100) Introduction to the field of ASL-English interpreting. The following will be discussed: the history of the interpreting profession; the varied roles-responsibilities of interpreters; issues and concerns facing interpreters; legal mandates and constraints governing the provision of interpreters; ethical guidelines and their application to educational environments. Since interpreters are expected to be fluent in both English and ASL, this course will strive to enhance students' facility with both languages.

**Prerequisite:** ASL 19202; and graduate standing.

**Pre/corequisite:** ASL 29201.

**Corequisite:** SPED 53106.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPED 53101 DEAF CULTURE AND COMMUNITY 3 Credit Hours**

(Slashed with ASL 49401) Exploration of historical events and figures from deaf community perspective. Life experiences of 'typical' deaf individuals as minority culture representatives interacting with majority culture institutions and processes as depicted in narrative storytelling and folklore.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPED 53102 INTERPRETING PROCESSES I 3 Credit Hours**

(Cross-listed with ASEI 43102) Beginning level interpreting course that examines the models of interpreting and their application to practice. Consecutive and simultaneous interpreting strategies are used to develop processing skills for both English to ASL and ASL to English interpretations. Samples of narrative genre are the texts used for interpretations as students examine the linguistic and cultural differences between ASL and English narratives.

**Prerequisite:** ASL 29202; and SPED 53100; and SPED 53107; and graduate standing.

**Corequisite:** ASL 39201 and SPED 53105.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPED 53103 INTERPRETING PROCESSES II 3 Credit Hours**

(Slashed with SPED 43103) Intermediate level interpreting course that challenges students to interpret the more complex genres including expository, procedural, and argumentative texts. Students will study and apply contextualization strategies. Discourse that is common to both the adult deaf community and educational settings will be interpreted and transliterated. There will be clinical application hours that students will need to accrue in this course.

**Prerequisite:** ASL 29202 and SPED 53102; and graduate standing.

**Pre/corequisite:** ASL 39201.

**Corequisite:** SPED 53310 and SPED 53111.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPED 53104 INTERPRETING PROCESSES III 3 Credit Hours**

(Slashed with SPED 43104) Advanced level interpreting course focused on enhancing students' English to ASL and ASL to English skills in a variety of settings. Complex texts are selected from a variety of disciplines from both community and educational settings. Students build on previously developed self-assessment skills to create detailed and analytical diagnostic charts of their interpreted work. There will be clinical application hours that students will need to accrue in this course.

**Prerequisite:** ASL 39202 and SPED 53107; and SPED 53092; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPED 53105 TRANSLITERATING 3 Credit Hours**

(Cross-listed with ASEI 43105) Students are exposed to the various English-based sign systems that are used in the education of deaf students as well as variations of sign communication in the deaf community. Focus is placed on developing transliterating skills utilizing conceptually accurate signed English. Students examine the implications of a diverse sign continuum and the professional expectation of identifying and meeting the language preferences of deaf consumers.

**Prerequisite:** SPED 53100 and ASL 29202; and graduate standing.

**Corequisite:** ASL 39201 and SPED 53102.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPED 53106 SCHOOL SETTING INTERPRETING 3 Credit Hours**

(Slashed with ASEI 43106) Issues, challenges, roles, responsibilities, and ethics of classroom-based educational interpreting are explored. Students are exposed to the variety of classroom designs where interpreters work such as mainstreaming, inclusion, resource room, and self-contained classrooms. K-12 settings place additional expectations for interpreter participation including IEP meetings, counseling, school assemblies and performing arts presentations.

**Prerequisite:** ASL 19201; ASL english interpreting (ASEI) concentration within the special education major; and graduate standing; and special approval.

**Pre/corequisite:** ASL 29201.

**Corequisite:** SPED 53100.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPED 53107 COMMUNITY SETTING INTERPRETING 3 Credit Hours**

(Cross-listed with ASEI 43107) This course explores the various venues that interpreters can work in the community. Emphasis will be given to the development of specialized vocabulary. Students participate in mock interpreting situations common to community interpreting in order to identify ethical dilemmas, demands and controls.

**Prerequisite:** Admission to the ASL english interpreting concentration with the special education major; and ASL 29201; SPED 53100; and SPED 53106; and graduate standing.

**Corequisite:** ASL 29202.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPED 53108 AMERICAN SIGN LANGUAGE LINGUISTICS AND USAGE 3 Credit Hours**

(Cross-listed with ASL 49108) Analytical study of American Sign Language syntactic, semantic, morphology and pragmatics; comparison of spoken languages and ASL using the Stokoe system, impact of educational-setting characteristics on linguistic processes.

**Prerequisite:** SPED 4/53100; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPED 53110 DISCOURSE ANALYSIS FOR INTERPRETERS 3 Credit Hours**

(Cross-listed with ASEI 43110) This course will explore the field of discourse analysis and its relation to the work of an interpreter. Students will complete the course with an understanding of terminology specific to discourse analysis, a better understanding of one's own discourse style, and a better idea of how English and ASL use various discourse features. These features include the following: Turn-taking, Conversational Repair - false starts, Discourse Markers, Constructing Dialogue & Action, Cohesion, Rhythm, Rhyme, and Repetition.

**Prerequisite:** ASL 39201; and SPED 53100 and SPED 53102 and SPED 53106 and SPED 53107.

**Corequisite:** SPED 53103.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPED 53111 THE PROFESSIONAL INTERPRETER 3 Credit Hours**

Covers current trends in the field regarding situational and ethical issues. Demand-Control Schema and the RID Code of Professional Conduct are key components of the students' investigation and application. Students receive guidance in preparing for the RID performance test.

**Prerequisite:** ASL 29202; and SPED 53100 and SPED 53107; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPED 53112 INTERACTIVE INTERPRETING 3 Credit Hours**

(Cross-listed with ASEI 43112) Guides students through a process of examining the complex nature of interpreting interactive discourse. Discussions will focus on managing this multi-layered process when participants' roles, assumptions, and goals can be congruent or adversarial. Student will learn to navigate contrasting cultural, linguistic, and discourse expectations. This course will present numerous interactive scenarios for students to interpret typical of a variety of settings with different participant configurations.

**Prerequisite:** ASL 29202 with a minimum C grade; and SPED 53100 and SPED 53103.

**Corequisite:** SPED 53102.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter



**SPED 53113 ASL TO ENGLISH INTERPRETING PROCESSES 3 Credit Hours**

(Cross-listed with ASEI 43113) Guides students in developing interpreting skills from their L2 (ASL) to their L1 (English). Students will learn strategies for increasing their ASL and English vocabularies for the purposes of understanding equivalents when applying English vocabulary to ASL signs. Students will examine their ability to apply this proficiency to various registers of ASL. Course will also emphasize incorporating Academic English into written scholarly appears to increase students' abilities to apply this to their interpretations.

**Prerequisite:** ASL 29202 and SPED 53100; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPED 53118 MEDICAL INTERPRETING 3 Credit Hours**

This course provides students with the opportunity to explore medical topics, terminologies, and areas of practice to enable them to more effectively meet the needs of deaf patients in a variety of healthcare settings. This course is designed to equip students with basic skills and knowledge to meet the demands of this setting. Students in this course will become familiar with body systems structures, functions, and common conditions-diseases affecting these systems. Students will be exposed to a variety of medical protocols, scripts, testing procedures, and areas of medical practice. As a result, students will be able to interpret medical information into ASL-appropriate structures. They will specifically be able to apply strategies of depiction and spatial mapping.

**Prerequisite:** SPED 53102; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPED 53119 MENTAL HEALTH INTERPRETING 3 Credit Hours**

This course will provide students with a foundation of common diagnoses, mental health professionals and their various roles, common mental health settings interpreters may work, and terminology paired with ASL equivalents. This course will also emphasize the relationship between interpreter and mental health professional, providing skill sets in which to pre- and -post conference to ensure an accurate interpretation in rendered, and the goals of therapist-professional have been met.

**Prerequisite:** SPED 53103; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPED 53192 ADVANCED PRACTICUM: ASL ENGLISH INTERPRETING 1-9 Credit Hours**

(Repeatable for credit) Field-based practicum experience provides pre-service interpreters with opportunity to learn from currently practicing master educational and-or community interpreters. Students will be placed in education and-or community settings. University supervisor and teacher mentor observe and assess student skill. Students are required to complete Bureau of Criminal Investigation and Identification (BCII) and Federal Bureau of Investigation (FBI) background checks and submit the results to authorized personnel at their assigned school-agency before the first day of the semester in which the internship will take place. Official valid certification of Child Safety Training, approved Basic Life Support, and A.L.I.C.E. Training must be presented to the campus office of clinical experience or designated faculty-staff at Regional campuses before registering for this course. Students must pass the SLPI or ASLPI on or before Oct. 31st the semester prior. A 3.000 major GPA is required.

**Prerequisite:** SPED 53104, SPED 53112 and ASL 49108; minimum 2.75 overall GPA; and graduate standing; and special approval.

**Schedule Type:** Practical Experience

**Contact Hours:** 3-27 other

**Grade Mode:** Satisfactory/Unsatisfactory

**SPED 53306 FUNDAMENTALS OF AUDIOLOGY FOR STUDENTS WITH HEARING LOSS 3 Credit Hours**

(Slashed with SPED 43306) This course focuses on providing non-audiology majors, specifically deaf education, educational interpreting, and ASL majors, with knowledge to support and serve children with a variety of hearing disorders in the educational setting.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPED 53307 LISTENING, LANGUAGE AND PHONEMIC DEVELOPMENT FOR INDIVIDUALS WITH HEARING LOSS 3 Credit Hours**

(Slashed with SPED 43307) This class focuses on listening, language and phonemic development for individuals with hearing loss. Specific areas will focus on typical language development and the impacts of hearing loss on language development in receptive, expressive, semantic, phonological, social, morphological and syntactical domains with an emphasis on reading and written language. The Auditory-Visual continuum, SCALES, along with strategies for zone of development will be focused on with auditory development strategies.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPED 53309 INTRODUCTION TO DEAF STUDIES 3 Credit Hours**  
(Cross-listed with ASL 49309) (Slashed with SPED 43309) Introductory survey course designed to provide informational base and understanding of the unique experiences of Deaf people as a cultural minority. Course includes a discussion of: the history of deaf education, etiology and prevalence data, service delivery systems, the process of diagnosis and discovery of hearing loss, issues associated with assessment, and the various communication systems used by deaf individuals. Specifically, topics discussed will include historical, medical, and cultural perspectives regarding the interactions between Deaf and hearing cultural groups and the resulting impact on social, academic-educational, and vocational experiences of deaf children, adults, and their families.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPED 53310 LANGUAGE DEVELOPMENT FOR DEAF AND HARD-OF-HEARING STUDENTS 3 Credit Hours**

Reviews research, theories and theorists in the field of language development for hearing and deaf children; develops awareness of language differences commonly demonstrated by deaf and hard-of-hearing children; demonstrates ways to assess linguistic differences and facilitate instruction. Six topic areas include theories of language development (review), language and cognition, normal language acquisition in signed and spoken languages, child-caregiver interaction, language learning in a bilingual setting and language assessment. Students gain foundational understanding of language development and awareness of classroom applications for this knowledge. Includes 20 hours of field-lab experience. Deaf Education majors must achieve a minimum grade of B (3.000) in SPED 53309 before registering for this course.

**Prerequisite:** SPED 53309 and ASL 19202; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPED 53311 INSTRUCTION OF DEAF/HARD-OF-HEARING STUDENTS WITH SPECIAL NEEDS 3 Credit Hours**

IEP and transition planning strategies and program content for deaf/hard-of-hearing students with ADHD, BD, DD,VI,DB, LD, CMI, TBI, chronically health impaired/medically fragile, gifted. Curriculum and lesson development and adaptation for impacted areas.

**Prerequisite:** SPED 53313 with a minimum B grade; and graduate standing.

**Corequisite:** 2 credit hours of SPED 63392.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPED 53313 LITERACY ASSESSMENT AND INTERVENTION FOR DEAF/HARD-OF-HEARING STUDENTS 6 Credit Hours**

Theoretical overview of integrated linguistics curriculum and reading theories. Strategies to address DHH difficulties and barriers, instructional planning and materials design, and ongoing assessment strategies. Course includes a practicum placement.

**Prerequisite:** SPED 53310 with a minimum B grade; and CI 67310 or CI 57504; and graduate standing.

**Pre/corequisite:** ASL 29202 and 2 credit hours of SPED 63392.

**Schedule Type:** Lecture

**Contact Hours:** 6 lecture

**Grade Mode:** Standard Letter

**SPED 53316 EARLY CHILDHOOD DEAF EDUCATION: FAMILY AND CHILD SERVICE PROVISION 3 Credit Hours**

Targets the issues and needs of young deaf/hard-of-hearing children and their families. Topics covered relate to service provision in the home and classroom for deaf/hard-of-hearing children from birth to 5 years of age. Includes 30 hours of work in a practicum placement with a young D/HH child and his/her family.

**Prerequisite:** SPED 4/53310; ASL/SPED 29202 or sign language proficiency interview (SLPI) at intermediate or above; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPED 53324 CURRICULUM METHODS AND MATERIALS FOR DEAF/HARD OF HEARING STUDENTS 3 Credit Hours**

Designed to provide students with basic knowledge and skills needed to effectively design and implement instruction for deaf and hard-of-hearing students. Conducted through a combination of lectures, discussions, demonstrations and group activities. Upon successful completion, students possess foundational understanding of how to design and implement lessons and curriculum with students who are deaf and hard of hearing.

**Prerequisite:** SPED 53313 with a minimum B grade; and CI 57501 and 57502; and graduate standing.

**Corequisite:** 2 credit hours of SPED 63392.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPED 53534 SOCIAL/EMOTIONAL COMPONENTS OF GIFTEDNESS 3 Credit Hours**

Affective growth of gifted persons is reviewed through research literature and analysis of case studies. Reviews adjustment problems of gifted youth and adults.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPED 55089 VARIABLE TOPIC INTERNATIONAL EXPERIENCE IN SPECIAL EDUCATION 1-4 Credit Hours**

(Slashed with SPED 45089 and SPED 75089) A faculty-led study abroad experience that integrates traditional classroom learning with experiential activities and site visits outside the United States. International experience courses may have pre- and post-travel classroom study. Course activities may include, but are not limited to, classroom study, research, field work, internships and service learning.

**Prerequisite:** Graduate standing.

**Schedule Type:** International Experience

**Contact Hours:** 1-4 other

**Grade Mode:** Standard Letter-IP

**SPED 55090 VARIABLE TOPIC STUDY AWAY EXPERIENCE IN SPECIAL EDUCATION 1-4 Credit Hours**

(Slashed with SPED 45090 and SPED 75090) A faculty-led study out-of-classroom experience that integrates traditional classroom learning with experiential activities and site visits within the United States. Study away courses may have pre- and post-travel classroom study. Course activities may include, but are not limited to, classroom study, research, field work, internships and service learning.

**Prerequisite:** Graduate standing.

**Schedule Type:** Study Away

**Contact Hours:** 1-4 other

**Grade Mode:** Standard Letter-IP

**SPED 60199 THESIS I 2-6 Credit Hours**

Thesis students must register for a total of 6 hours, 2 to 6 hours in a single semester distributed over several semesters if desired.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Masters Thesis

**Contact Hours:** 2-6 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**SPED 60299 THESIS II 2 Credit Hours**

Thesis students must continue registration each semester until all degree requirements are met.

**Prerequisite:** SPED 60199; and graduate standing.

**Schedule Type:** Masters Thesis

**Contact Hours:** 2 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**SPED 62951 EARLY INTERVENTION IN NATURAL ENVIRONMENTS 3 Credit Hours**

This seminar targets early childhood special education and intervention professionals that comprise the field of early intervention from practitioners to future leaders in the field. Recommended practice guidelines of the Division for Early Childhood (DEC) indicate that interventions should be embedded and distributed within and across the routines, activities and places that are part of the child's daily experience. In keeping with DEC recommendations, this course will explore issues related to the various natural environments of the children in search of the routines, activities, and places that offer the maximum learning and practice opportunities that are family centered, developmentally and individually appropriate, culturally sensitive, and least intrusive.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPED 63030 PHARMACOLOGICAL INTERVENTIONS IN SPECIAL EDUCATION 3 Credit Hours**

Introduce mechanisms by which drugs act; identify benefits/side effects; implications for delivery/ intervention; monitoring in classroom. Classes of drugs examined; issues examined; delineation of responsibilities and prohibitions.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPED 63031 PROGRAM DEVELOPMENT IN APPLIED BEHAVIOR ANALYSIS 3 Credit Hours**

Describe and apply methodology and research design in developing and monitoring the effectiveness of behavioral interventions and to use such information to evaluate overall program efficacy. Consideration is given to student characteristics (e.g., underlying disability) when developing and evaluating behavior programs based in applied behavior analysis. Use of specific tools for prioritizing behaviors, evaluating progress, and making treatment program decisions are presented. Issues related to treatment implementation fidelity and behavioral program development are also emphasized.

**Prerequisite:** Graduate standing.

**Pre/corequisite:** SPED 53030.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPED 63032 ADVANCED INTERVENTIONS FOR ADDRESSING SEVERE BEHAVIOR 3 Credit Hours**

Use and interpretation of functional behavioral assessment in educational settings to lead to the identification of empirically-supported interventions to address the behavioral needs of children. The development, implementation and analysis of functional analysis procedures. Special emphasis given to identifying designing, implementing and assessing the effectiveness of advanced behavioral interventions in consultation. 20 field hours.

**Prerequisite:** SPED 53030, SPED 53031, SPED 63031, SPED 63301 and SPED 63033; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPED 63033 ETHICAL AND PROFESSIONAL CONDUCT IN APPLIED BEHAVIOR ANALYSIS 3 Credit Hours**

This course provides an intensive focus on ethical and professional conduct as it applies to day-to-day implementation of applied behavior analytic strategies by professional behavior analysts. Responsible conduct of a behavior analyst, ethical responsibilities to clients, colleagues, the field of applied behavior analysis, and society are featured. BACB Guidelines for Responsible Conduct for Behavior Analyst and BACB Disciplinary and Ethical Standards are reviewed and studied. This course focuses on meeting the updated standards for ethics set forth by the Behavior Analyst Certification Board in the BACB Fourth Edition Task List.

**Prerequisite:** SPED 53030 and SPED 63031; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPED 63034 PRINCIPLES AND CONCEPTS IN APPLIED BEHAVIOR ANALYSIS 3 Credit Hours**

This course focuses on the advanced conceptual, philosophical, and theoretical underpinnings of applied behavior analysis and the research literature from which they were derived. This course is designed for those who will pursue certification through the Behavior Analyst Certification Board, and as such, delves deep into the technical aspects of the science of applied behavior analysis. Students will become fluent in such areas as the theories of behavior, principles of operant and respondent conditioning, stimulus class, automatic and socially mediated contingencies, motivating operations, and stimulus control, as well as be able to identify and describe examples of how they are used. Prerequisite: Admission to Behavior Intervention Specialist Certificate; and graduate standing

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPED 63092 FIELD EXPERIENCE IN SPECIAL EDUCATION 3 Credit Hours**

Provides opportunity to observe master teachers and begin working with students. Students are placed in education-based settings and work with a team of professionals to understand techniques for providing services to students with exceptionalities. Additional seminar meetings.

**Prerequisite:** Graduate standing.

**Schedule Type:** Practical Experience

**Contact Hours:** 9 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**SPED 63101 ADMINISTRATION AND SUPERVISION IN SPECIAL EDUCATION 3 Credit Hours**

Administration of educational programs for exceptional children; improvement of teacher competencies; function of special education supervisors; and special education operations at local, state and national levels.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPED 63200 INTRODUCTION TO EXCEPTIONALITIES 3 Credit Hours**

Introduction to exceptionalities of student development. Focus on foundations/theories associated with characteristics and accommodations for human exceptionalities. Collaborative/multidiscipline educational service design. Fifteen clinical/field hours.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPED 63201 CONTEMPORARY ISSUES IN SPECIAL EDUCATION 3 Credit Hours**

(Slashed with SPED 83201) Surveys current research, literature and policy issues that affect identification, assessment and service provision to students with exceptionalities.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPED 63204 LEGAL AND POLICY FOUNDATIONS OF SPECIAL EDUCATION 3 Credit Hours**

(Slashed with SPED 73204) This course will review the statutory and regulatory foundations of U.S. public policies pertaining to children and youth with disabilities. Key judicial interpretations of those policies will also be reviewed. The course will provide comprehensive overviews of The Individuals with Disabilities Education Act, The Every Student Succeeds Act, The Americans with Disabilities Act, The Vocational Rehabilitation Act, relevant sections of The Social Security Act. In addition, students will gain an awareness of miscellaneous other pieces of legislation and examples of case law pertaining to the education of students with disabilities.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPED 63300 RESEARCH APPLICATIONS IN SPECIAL EDUCATION 3 Credit Hours**

(Slashed with SPED 73300) Culminating experience in which students apply their content, methods and research skills to develop a final project that addresses an area of special education. Focuses on techniques for answering research questions, developing curriculum, and assimilating knowledge through applied projects.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter-IP

**SPED 63301 SINGLE SUBJECT RESEARCH METHODS 3 Credit Hours**

(Repeatable 2 times for credit) Research designs and techniques associated with behavioral observation and a description of single subject experimental methodology are presented. The study of this methodology includes topics related to applied behavior analysis, assessment, experimental design and data evaluation. In addition, single subject methods are discussed in relations to other research designs. 20 field hours.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter-IP

**SPED 63392 PRACTICUM IN DEAF EDUCATION 1-3 Credit Hours**

(Repeatable for a maximum of 3 credit hours) This classroom and field-based experience is designed to provide students pre-service deaf education teachers with the opportunity to develop professional-level skills in working with deaf and hard-of-hearing (DHH) students. The field component will provide experience in working with DHH students with diverse needs, disabilities and ethnic-cultural backgrounds. The class will address appropriate lesson planning and implementation and meets at least 6 times per semester.

**Prerequisite:** Graduate standing.

**Schedule Type:** Practical Experience

**Contact Hours:** 3-9 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**SPED 63533 GIFTED SUBPOPULATIONS 3 Credit Hours**

The characteristics and needs of intellectually gifted individuals who often are not high academic achievers are studied with consideration of the implications for school practices.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPED 63892 EARLY INTERVENTION INTERNSHIP 3 Credit Hours**

(Repeatable for a maximum of 9 credit hours) The Early Intervention Internship involves supervised observation and participation in an early intervention setting(s) for children ages birth to three with developmental delays and disabilities or supervised observation and participation in research and scholarly activities related to the development, delivery, and evaluation of early intervention services to children and their families. Students may be placed at a county board of developmental disabilities, center-, community-, or home-based early intervention program, a developmental center, childcare center, a neonatal intensive care unit (NICU) or other approved placement. The Early Intervention internship will provide students practical experience in an Early Intervention professional setting, one that allows students to develop and refine a variety of skills when working with infants and toddlers with disabilities and their families.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Field Experience

**Contact Hours:** 9 other

**Grade Mode:** Satisfactory/Unsatisfactory

**SPED 63949 AUTISM SPECTRUM DISORDER CAPSTONE 1-3 Credit Hours**

Knowledge and skills gained through participation in the Autism Spectrum Disorders (ASD) program are utilized to develop a project related to the education of individuals with ASD and-or the individuals who support them.

**Prerequisite:** Graduate standing.

**Schedule Type:** Individual Investigation

**Contact Hours:** 3-9 other

**Grade Mode:** Satisfactory/Unsatisfactory

**SPED 63950 CURRICULUM AND INTERVENTION IN EARLY CHILDHOOD SERVICES 3 Credit Hours**

(Slashed with SPED 73950) Knowledge about early childhood intervention (ECI) curriculum and intervention. Students will first learn about what evidence-based practice is, and the curriculum models for home-based and center-based settings. Students will then learn about the ECI multi-tiered systems of support framework, and the different characteristics and intervention strategies across tiers. At the end of the course, students will be ready to support the diverse needs of young children using the multi-tiered system of support in early childhood settings.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPED 63952 FAMILY AND PROFESSIONAL COLLABORATION IN EARLY CHILDHOOD 3 Credit Hours**

(Cross-listed with ECED 60159) Examines issues facing families and professionals serving young children who are at-risk, disabled and typically developing.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPED 63953 PRACTICAL APPLICATIONS:BIRTH TO FIVE 3 Credit Hours**

Practical application of recommended practices for young children birth-five. Observation of young children in natural environments. Plan and evaluate intervention with families and professionals. Sixty field hours.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPED 63954 PRACTICAL APPLICATIONS: TEAMING 3 Credit Hours**

The purpose of this course is to help students understand and apply the principles of effective collaborative teaming as related to their professional roles and responsibilities in a variety of educational settings serving young children with disabilities. A range of topics will be addressed throughout the course, including giving and receiving feedback, reflective practices, effective meeting, conflict resolution and communication skills, developing and providing quality professional development, supervising, coaching, mentoring, working with para-professionals, itinerant teaching, service coordination, and consulting with general educators.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPED 63955 TYPICAL AND ATYPICAL DEVELOPMENT IN YOUNG CHILDREN 3 Credit Hours**

Overview of typical and atypical development pathways from birth to grade 3 including: theories of behavior, implications of atypical development on play, learning, early childhood development within ecological framework.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPED 63956 FOUNDATIONS IN EARLY CHILDHOOD SERVICES 3 Credit Hours**

(Cross-listed with ECED 60156) (Slashed with SPED 73956) Overview of issues facing young children within context of family/society including: history, early childhood services, theoretical perspectives, implications of childhood disabilities, and recommended assessment intervention and evaluation.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPED 63957 ASSESSMENT AND EVALUATION OF EARLY CHILDHOOD SERVICES 3 Credit Hours**

(Slashed with SPED 73957) Examines a range of systems for comparing and observing early childhood services, practices, young children and families: types and purposes of assessment procedures and instruments, monitoring progress.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter



**SPED 63958 EARLY CHILDHOOD INTERVENTION METHODS 3 Credit Hours**

Specific strategies for working with children birth to eight with intensive needs (e.g. cerebral palsy, spina bifida, autism). 30 clinical hours will provide students with the opportunity to practice newly acquired intervention strategies, knowledge and skills.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPED 63959 MEDICAL ASPECTS OF LIFESPAN DISABILITIES 3 Credit Hours**

Description of medical issues facing individuals with lifespan disabilities and their families. Examination of etiology, co-occurring disabilities and disorders, and treatment options in relation to individuals with Autism Spectrum Disorders and other developmental disabilities.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPED 63991 SEMINAR IN SPECIAL EDUCATION 1-3 Credit Hours**

(Repeatable for credit) Various topics include: behavior modification, research problems in special education, theories in special education, social processes in special education.

**Prerequisite:** Graduate standing.

**Schedule Type:** Seminar

**Contact Hours:** 1-3 other

**Grade Mode:** Standard Letter

**SPED 63992 STUDENT TEACHING IN SPECIAL EDUCATION 4-8 Credit Hours**

(Repeatable for maximum of 8 credit hours) Provides opportunity to demonstrate skills in teaching. Students placed in education-based settings; assume total teaching responsibilities of students with exceptionalities for 480 clock hours under the supervision of the school-based mentor teacher and the university supervisor. Students are required to complete Bureau of Criminal Investigation and Identification (BCII) and Federal Bureau of Investigation (FBI) background checks and submit the results to authorized personnel at their assigned school agency before the first day of the semester in which student teaching internship will take place. Official valid certification of Child Safety Training, approved Basic Life Support and A.L.I.C.E. Training must be presented to the campus office of clinical experience or designated faculty-staff at Regional campuses as prerequisite for student teaching. Training must be presented to the campus office of clinical experience or designated faculty/staff at college of applied and technical studies' campuses as prerequisite for student teaching; and graduate standing; and special approval.

**Prerequisite:** Official valid certification of Child Safety Training, approved Basic Life Support and ALICE.

**Corequisite:** SPED 69525.

**Schedule Type:** Practical Experience

**Contact Hours:** 17-35 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**SPED 63995 SPECIAL TOPICS IN SPED 1-3 Credit Hours**

(Repeatable for credit) Specialized offerings in response to emerging or selected program needs.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 1-3 lecture

**Grade Mode:** Standard Letter

**SPED 63996 INDIVIDUAL INVESTIGATION IN SPECIAL EDUCATION 1-10 Credit Hours**

(Repeatable for credit)

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Individual Investigation

**Contact Hours:** 1-10 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**SPED 63998 RESEARCH:SPECIAL EDUCATION 1-10 Credit Hours**

(Repeatable for credit)

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Research

**Contact Hours:** 1-10 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**SPED 64200 CURRICULUM METHODS FOR TRANSITION PLANNING AND COLLABORATION 3 Credit Hours**

This course focuses upon the development of transition agreements and collaboration between secondary transition specialists and other transition stakeholders (e.g., elementary school regular educators, parents of students with disabilities, adult service programs). Particular emphasis is placed upon infusing vocational, and non-vocational, transition planning in the curricula for individuals with moderate-to-intensive disabilities at all academic grade levels. 100 field hours are required for this course.

**Prerequisite:** SPED 53070; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPED 64309 AUTISM SPECTRUM DISORDERS: THEORY AND DIAGNOSIS 3 Credit Hours**

(Cross-listed with SPA 64309 and SPA 74309) (Slashed with SPED 44309) Provides an overview of Autism Spectrum Disorders (ASD). Examines the history, characteristics, and prevalence of ASD. Assessment and intervention models are explored as they relate to various theoretical models for understanding ASD.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPED 64310 AUTISM SPECTRUM DISORDERS: LIFESPAN INTERVENTIONS 3 Credit Hours**

(Cross-listed with SPA 64310 and SPA 74310) Provides students with a review of the significant aspects related to educational, social, vocational transitions for children, adolescents, and young adults with Autism Spectrum Disorders (ASD). Students learn skills necessary to evaluate and develop programs designed to meet the changing and long term needs of individuals with ASD.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPED 64892 ADVANCED PRACTICUM 3,4 Credit Hours**

(Repeatable for credit) The purpose of this advanced practicum is to integrate the knowledge and skills acquired through prior curricula to a field-based setting assisting individuals with disabilities. Settings may include, but are not limited to, general education and special education classrooms as well as therapeutic, residential and vocational programs.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Practical Experience

**Contact Hours:** 9-12 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**SPED 64951 DEVELOPING AN INDIVIDUALIZED FAMILY SERVICE PLAN AND INDIVIDUALIZED EDUCATION PROGRAM 3 Credit Hours**

Designed to increase students understanding regarding federal and state rules for developing IEPs for P-12 students and IFSPs for young children and their families. Students will learn how to write functional and measurable IEP goals, objectives and IFSP outcomes, and to use assessment information directly for identifying, writing, and monitoring IFSP outcomes and IEP goals. This course will also teach how to form partnerships with families around developing, implementing and evaluating the IFSP and IEP.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPED 69525 INQUIRY PROFESSIONAL PRACTICE 3 Credit Hours**

This course is to support students during their student teaching experience in the last semester of the program. Planning for instruction and assessment, instructing and engaging students in various special education settings, and assessing learning outcomes are the focus of this course. The course also includes information specific to the professional responsibilities in their placements.

**Prerequisite:** Graduate standing.

**Corequisite:** SPED 63992.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPED 70093 VARIABLE TITLE WORKSHOP IN SPECIAL EDUCATION 1-5 Credit Hours**

(Slashed with SPED 40093 and SPED 50093)(Repeatable for credit)

Topics of special interest to students desiring to intensify their knowledge in particular areas. Presenters include Kent State University and other institution faculty. Offered irregularly.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Workshop

**Contact Hours:** 1-5 other

**Grade Mode:** Satisfactory/Unsatisfactory

**SPED 70094 COLLEGE TEACHING 3 Credit Hours**

(Repeatable for credit) Discusses major aspects of teaching in higher education, including such topics as students' philosophy of teaching, principles of adult learning, instructional strategies, students' assessment.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPED 73030 PHARMACOLOGICAL INTERVENTIONS IN SPECIAL EDUCATION 3 Credit Hours**

Introduce mechanisms by which drugs act; identify benefits/side effects; implications for delivery/intervention; monitoring in classroom. Classes of drugs examined; issues examined; delineation of responsibilities and prohibitions.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPED 73204 LEGAL AND POLICY FOUNDATIONS OF SPECIAL EDUCATION 3 Credit Hours**

(Slashed with SPED 63204) This course will review the statutory and regulatory foundations of U.S. public policies pertaining to children and youth with disabilities. Key judicial interpretations of those policies will also be reviewed. The course will provide comprehensive overviews of The Individuals with Disabilities Education Act, The Every Student Succeeds Act, The Americans with Disabilities Act, The Vocational Rehabilitation Act, relevant sections of The Social Security Act. In addition, students will gain an awareness of miscellaneous other pieces of legislation and examples of case law pertaining to the education of students with disabilities.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPED 73300 RESEARCH APPLICATIONS IN SPECIAL EDUCATION 3 Credit Hours**

(Slashed with SPED 63300) Culminating experience in which students apply their content, methods and research skills to develop a final project that addresses an area of special education. Focuses on techniques for answering research questions, developing curriculum, and assimilating knowledge through applied projects.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter-IP

**SPED 73950 CURRICULUM AND INTERVENTION IN EARLY CHILDHOOD SERVICES 3 Credit Hours**

(Slashed with SPED 63950) Knowledge about early childhood intervention (ECI) curriculum and intervention. Students will first learn about what evidence-based practice is, and the curriculum models for home-based and center-based settings. Students will then learn about the ECI multi-tiered systems of support framework, and the different characteristics and intervention strategies across tiers. At the end of the course, students will be ready to support the diverse needs of young children using the multi-tiered system of support in early childhood settings.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPED 73956 FOUNDATIONS IN EARLY CHILDHOOD SERVICES 3 Credit Hours**

(Cross-listed with ECED 60156) (Slashed with SPED 63956) Overview of issues facing young children within context of family/society including: history, early childhood services, theoretical perspectives, implications of childhood disabilities, and recommended assessment intervention and evaluation.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPED 73957 ASSESSMENT AND EVALUATION OF EARLY CHILDHOOD SERVICES 3 Credit Hours**

(Slashed with SPED 73957) Examines a range of systems for comparing and observing early childhood services, practices, young children and families: types and purposes of assessment procedures and instruments monitoring progress.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPED 73991 SEMINAR IN SPECIAL EDUCATION 1,3 Credit Hour**

(Repeatable for credit) Various topics include: behavior modification, research problems in special education, theories in special education, social processes in special education.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Seminar

**Contact Hours:** 1-3 other

**Grade Mode:** Standard Letter

**SPED 73995 SPECIAL TOPICS IN SPED 1-3 Credit Hours**

(Repeatable for credit) Specialized offerings in response to emerging or selected program needs.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 1-3 lecture

**Grade Mode:** Standard Letter

**SPED 73996 INDIVIDUAL INVESTIGATION IN SPECIAL EDUCATION 1-10 Credit Hours**

(Repeatable for credit)

**Prerequisite:** Doctoral standing; and special approval.

**Schedule Type:** Individual Investigation

**Contact Hours:** 1-10 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**SPED 74200 CURRICULUM METHODS FOR TRANSITION PLANNING AND COLLABORATION 3 Credit Hours**

(Slashed with SPED 64200) This course focuses upon the development of transition agreements and collaboration between secondary transition specialists and other transition stakeholders (e.g., elementary school regular educators, parents of students with disabilities, adult service programs). Particular emphasis is placed upon infusing vocational, and non-vocational, transition planning in the curricula for individuals with moderate-to-intensive disabilities at all academic grade levels. 100 field hours are required for this course.

**Prerequisite:** SPED 53070; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPED 75089 VARIABLE TOPIC INTERNATIONAL EXPERIENCE IN SPECIAL EDUCATION 1-4 Credit Hours**

(Slashed with SPED 45089 and SPED 55089) A faculty-led study abroad experience that integrates traditional classroom learning with experiential activities and site visits outside the United States. International experience courses may have pre- and post-travel classroom study. Course activities may include, but are not limited to, classroom study, research, field work, internships and service learning.

**Prerequisite:** Doctoral standing.

**Schedule Type:** International Experience

**Contact Hours:** 1-4 other

**Grade Mode:** Standard Letter-IP

**SPED 75090 VARIABLE TOPIC STUDY AWAY EXPERIENCE IN SPECIAL EDUCATION 1-4 Credit Hours**

(Slashed with SPED 45090 and SPED 55090) A faculty-led study out-of-classroom experience that integrates traditional classroom learning with experiential activities and site visits within the United States. Study away courses may have pre- and post-travel classroom study. Course activities may include, but are not limited to, classroom study, research, field work, internships and service learning.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Study Away

**Contact Hours:** 1-4 other

**Grade Mode:** Standard Letter-IP

**SPED 80001 SPECIAL EDUCATION RESIDENCY 3 Credit Hours**

This course is designed to provide beginning SPED doctoral students skills and knowledge in the following global areas: information literacy and plagiarism, basic APA style writing and building a writing routine. Additionally, the course will prepare students in the following SPED specific areas: effectively synthesizing intervention based empirical research, establishing a line of inquiry in the disability related fields, and developing a CV for disability related positions in Higher Education. Overall, the course will help students to understand life in academia during the doctoral studies in SPED and life after graduation conducting timely SPED research and teaching SPED content (e.g., institutional differences for SPED higher education jobs, tenure, work and life balance, time management, etc).

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter-IP

**SPED 80002 ANALYSIS OF THE LITERATURE IN SPECIAL EDUCATION 3 Credit Hours**

This course is designed to assist doctoral students in the acquisition, organization, and interpretation of information about research in special education. The seminar introduces students to the nature of inquiry and the process of generating questions about a broad array of disability-related research topics. Students will gain knowledge to analyze critically the outcomes of research in special education.

**Prerequisite:** SPED 80001; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter-IP

**SPED 80003 IMPLEMENTATION SCIENCE IN SPECIAL EDUCATION 3 Credit Hours**

This course is designed to provide students an overview of implementation science, and seminal leadership and systems change literature. The course will describe current state of the science of implementation, and identify strategies that foster the effective transmission and implementation of innovative programs in intervention focused disability studies special education fields. Students analyze and apply the literature at the teacher, family, school building, district, state and federal levels. Students will gain skills and knowledge in implementation drivers that have the potential in reducing the research to practice gap, and increasing the integration of evidence based practices. Strategies for developing and mobilizing stakeholders to support the process of change will be covered.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPED 80005 EMPIRICAL INVESTIGATIONS IN SPECIAL EDUCATION 3 Credit Hours**

The course is intended to help students solidify their knowledge, skills, and dispositions related to research design, research methods, and scholarly writing by applying and expanding them in the context of special education research. Students will review and analyze quality indicators for special education research, critique select special education research literature, and develop a preliminary research proposal.

**Prerequisite:** SPED 80002; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**SPED 80040 RESEARCH GRANT DEVELOPMENT FOR DISABILITY PROGRAMS 3 Credit Hours**

Students develop and write research proposals for grant competitions focusing on disability issues. Considerations for types of competitions and funding sources are discussed. Focus of instruction is related to how to describe the importance of the research proposed, research methods identified, budget, administration of grant activities and evaluation of implementation.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Seminar

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter-IP

**SPED 80090 DOCTORAL RESIDENCY SEMINAR 3 Credit Hours**

Provides students with the opportunity to synthesize courses, research and practice by focusing on diverse issues and topics. Ordinarily, SPED 80090 is taken no earlier than the second year of doctoral studies as a culminating course in the doctoral sequence.

**Prerequisite:** Doctoral standing; and special approval.

**Schedule Type:** Seminar

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**SPED 80091 DOCTORAL RESIDENCY SEMINAR 3 Credit Hours**

Provides students with the opportunity to synthesize courses, research and practice by focusing on diverse issues and topics. Ordinarily, SPED 80091 is taken no earlier than the second year of doctoral studies as a culminating course in the doctoral sequence.

**Prerequisite:** Doctoral standing; and special approval.

**Schedule Type:** Seminar

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**SPED 80092 PRACTICUM IN COLLEGE TEACHING 3 Credit Hours**

(Repeatable for credit) This course will provide the student supervised experience in design, delivery, and evaluation of a college course in special education. The student will demonstrate skills learned in the pre-requisite course (SPED 70094) under the supervision of a designated special education faculty member.

**Prerequisite:** Doctoral standing.

**Pre/corequisite:** SPED 70094.

**Schedule Type:** Practical Experience

**Contact Hours:** 9 other

**Grade Mode:** Satisfactory/Unsatisfactory

**SPED 80199 DISSERTATION I 15 Credit Hours**

(Repeatable for credit) Doctoral dissertation for which registration in at least two semesters is required, first of which will be semester in which dissertation work is begun and continuing until the completion of 30 hours.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Dissertation

**Contact Hours:** 3 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**SPED 80299 DISSERTATION II 15 Credit Hours**

(Repeatable for credit) Continuing registration required of doctoral students who have completed the initial 30 hours of dissertation and continuing until all degree requirements are met.

**Prerequisite:** SPED 80199; and doctoral standing.

**Schedule Type:** Dissertation

**Contact Hours:** 15 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**SPED 83201 CONTEMPORARY ISSUES IN SPECIAL EDUCATION 3 Credit Hours**

(Slashed with SPED 63201) This course is designed to help doctoral students to develop (a) foundational knowledge for understanding important and controversial issues in special education and related disciplines; (b) skills in critical analysis and synthesis of research; and, (c) skills in effective oral and written communication about historical and contemporary issues in special education.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPED 83301 SINGLE-SUBJECT RESEARCH METHODS 3 Credit Hours**

(Repeatable for credit) Research designs and techniques associated with behavioral observation and a description of single subject experimental methodology are presented. The study of this methodology includes topics related to applied behavior analysis, assessment, experimental design and data evaluation. In addition, single subject methods are discussed in relations to other research designs. 20 field hours.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter-IP

**SPED 83952 THE LAW AND SPECIAL EDUCATION 3 Credit Hours**

Selected principles of constitutional, statutory, case and common law affecting handicapped and special education students, teachers and administrators are studied.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPED 83991 SEMINAR IN SPECIAL EDUCATION 1-3 Credit Hours**

(Repeatable for credit)

**Prerequisite:** Doctoral standing.

**Schedule Type:** Seminar

**Contact Hours:** 1-3 other

**Grade Mode:** Standard Letter



**SPED 83992 INTERNSHIP IN SPECIAL EDUCATION 2-8 Credit Hours**  
(Repeatable for credit) A college-university doctoral-level supervised teaching experience. The candidates participate fully in the course and material development as well as delivery and grading of an undergraduate or masters level course under the direct supervision of a faculty member assigned to teach the class. Candidates are expected to partially participate in the delivery of a third of the course and fully deliver at least a third of the course under the observation and supervision of a faculty member.

**Prerequisite:** Doctoral standing; and special approval.

**Schedule Type:** Practical Experience

**Contact Hours:** 12-24 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**SPED 83998 RESEARCH:SPECIAL EDUCATION 1-10 Credit Hours**  
(Repeatable for credit)

**Prerequisite:** Doctoral standing; and special approval.

**Schedule Type:** Research

**Contact Hours:** 1-10 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

## Speech Pathology and Audiology (SPA)

**SPA 10002 INTRODUCTION TO COMMUNICATION DISORDERS AND DIFFERENCES 3 Credit Hours**

An introduction to communication disorders and differences using a) case studies via film and video review and critique, b) lecture, and c) class discussions. Covers speech, language, swallowing and hearing disorders and cultural and linguistic differences in communication.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPA 33101 HEARING AND SPEECH SCIENCE 3 Credit Hours**

Acoustics, psychoacoustics, and acoustics of speech production and perception.

**Prerequisite:** Admittance into the SPA professional phase (minimum 3.000 overall GPA at 60 credits).

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPA 34102 APPLIED PHONETICS 3 Credit Hours**

Basic principles of speech production and phonetic transcriptions of English with the international phonetic alphabet; emphasis on general American dialect.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPA 34103 ANATOMY AND PHYSIOLOGY OF SPEECH AND HEARING 3 Credit Hours**

Functional anatomy and physiology of the respiratory, phonatory, articulatory, neural, and auditory systems as they are used with normal and abnormal speech and hearing.

**Prerequisite:** SPA 34104.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPA 34104 SPEECH AND LANGUAGE ACQUISITION 3 Credit Hours**

Normal development and linguistic analysis of language systems including phonology, morphology, syntax, semantics, and pragmatics.

**Pre/corequisite:** SPA 34102.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPA 34105 PHONEMIC BASES OF SPEECH AND LANGUAGE 3 Credit Hours**

Fundamental processes related to production and perception of spoken language, with parallels to writing and reading particular application to normal and hearing impaired children and adolescents. For nonmajors only.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPA 34106 ARTICULATORY AND PHONOLOGICAL DISORDERS 3 Credit Hours**

Assessment and remediation of disorders of articulation and phonology.

**Prerequisite:** Admittance into the speech pathology and audiology professional phase (minimum 3.000 overall GPA at 60 credits); and SPA 34102 and SPA 34104.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPA 34107 LANGUAGE DISORDERS IN CHILDREN AND ADOLESCENTS 3 Credit Hours**

Introduction to assessment and intervention procedures associated with language disorders in children and adolescents.

**Prerequisite:** SPA 34104.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPA 34210 SPEECH AND LANGUAGE DEVELOPMENT 3 Credit Hours**

Normal development and linguistic analysis of language systems including phonology, morphology, syntax, semantics, and pragmatics.

This course is for non-speech pathology and audiology majors.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPA 43402 AUDIOMETRY 3 Credit Hours**

(Slashed with SPA 53402) Measurement of human hearing by pure-tone and speech audiometry; evaluation of middle ear function by immittance audiometry; screening techniques; pathologies of the conductive and sensorineural systems.

**Prerequisite:** Admittance into the speech pathology and audiology professional phase (minimum 3.000 overall GPA at 60 credits); and SPA 33101.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter



**SPA 43403 CLINICAL PREPARATION IN AUDIOLOGY (ELR) 2 Credit Hours**

Exercises and practical experiences in audiometric procedures, test interpretation, counseling and management of the hearing impaired.

**Prerequisite:** Admittance into the speech pathology and audiology professional phase (minimum 3.000 overall GPA at 60 hours); and special approval.

**Corequisite:** SPA 43402.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**Attributes:** Experiential Learning Requirement

**SPA 43404 AURAL REHABILITATION 3 Credit Hours**

Basic principles, variables and techniques for understanding, evaluating and improving receptive communication of hearing impaired individuals.

**Prerequisite:** Admittance into the speech pathology and audiology professional phase (minimum 3.000 overall GPA at 60 credits); and SPA 33101 and 34102 and 43402 (speech pathology and audiology majors) or 43600 (Education of Hearing Impaired majors).

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPA 43600 FUNDAMENTALS OF EDUCATIONAL AUDIOLOGY 3 Credit Hours**

Auditory development and function/dysfunction; auditory assessment and family counseling; selection and fitting of personal and classroom amplification; care and maintenance of amplification systems; collaboration of professionals in audiology and education; communication approaches according to varying levels of hearing loss; classroom environments conducive to auditory and academic learning.

**Prerequisite:** Junior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPA 44010 SOCIAL COMMUNICATION DEVELOPMENT AND DISORDERS IN AUTISM SPECTRUM DISORDERS 3 Credit Hours**

Provides an understanding of the social, communication, and language needs of those with ASD from childhood through adulthood. Examines the cognitive, neurological, social, and environmental components influencing social, communicative functioning. Reviews contemporary assessment and intervention strategies. Explores the use of assistive technology to enhance social communicative functioning in those with ASD.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPA 44020 MEDICAL ASPECTS OF AUTISM SPECTRUM DISORDERS 3 Credit Hours**

(Cross-listed with SPED 44020) Description of medical issues facing individuals with autism spectrum disorders (ASD) and their families. Examination of etiology, co-occurring disabilities and disorders, and treatment options in relation to individuals with ASD.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPA 44030 AUTISM SPECTRUM DISORDERS OVER THE LIFESPAN 3 Credit Hours**

Provides students with a review of the significant aspects related to educational, social, vocational transitions for children, adolescents, and young adults with ASD. Students learning skills necessary to evaluate and develop programs designed to meet the changing and long term needs of those with ASD.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPA 44089 VARIABLE TOPIC INTERNATIONAL EXPERIENCE IN SPEECH PATHOLOGY AND AUDIOLOGY (ELR) 1-4 Credit Hours**

(Slashed with SPA 54089 and SPA 74089) A faculty-led study abroad experience that integrates traditional classroom learning with experiential activities and site visits outside the United States. International experience courses may have pre- and post-travel classroom study. Course activities may include, but are not limited to, classroom study, research, field work, internships and service learning.

**Prerequisite:** None.

**Schedule Type:** International Experience

**Contact Hours:** 1-4 other

**Grade Mode:** Standard Letter-IP

**Attributes:** Experiential Learning Requirement

**SPA 44096 INDEPENDENT STUDY:SPEECH PATHOLOGY AND AUDIOLOGY 2-6 Credit Hours**

(Repeatable for credit) Readings and/or research on problems approved by chairman of department in consultation with student's adviser and project director.

**Prerequisite:** Speech pathology and audiology major; and graduate standing; and special approval.

**Schedule Type:** Individual Investigation

**Contact Hours:** 2-6 other

**Grade Mode:** Standard Letter-IP

**SPA 44110 SPEECH SCIENCE 3 Credit Hours**

Consideration of physiological and acoustic characteristics of normal speech production and perception with implications for speech and hearing disorders.

**Prerequisite:** Admittance into the speech pathology and audiology professional phase (minimum 3.000 overall GPA at 60 credits); and SPA 34102 and SPA 34106.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPA 44111 NEURAL PROCESSES 3 Credit Hours**

(Slashed with SPA 54111) Anatomy and physiology of the nervous system underlying human neuromotor movements. Topics include: definition and fundamental concepts, afferent and efferent systems, cortical anatomy and function, cranial nerves, theories of brain function, and neural maturation and learning.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPA 44112 AGE-RELATED CHANGES IN COMMUNICATION 3 Credit Hours**

Nonpathological age-related changes in speech, language and voice. Topics include structural changes in orofacial, laryngeal and respiratory mechanism; sequelae for speech, language and voice in the elderly; effects of age on swallowing; facilitating conversational interactions with elderly individuals.

**Prerequisite:** Admittance into the speech pathology and audiology professional phase (minimum 3.000 overall GPA at 60 credits).

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPA 44130 COMMUNICATION DISORDERS OF THE AGING 2 Credit Hours**

Hearing, speech and language disorders in geriatric population. Symptoms, causes and treatment: normal changes in hearing, language and speech accompanying aging process.

**Prerequisite:** Senior standing.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**SPA 44310 CLINICAL PROCEDURES IN SPEECH PATHOLOGY 3 Credit Hours**

This course addresses evaluation and intervention procedures in the field of speech-language pathology across the lifespan.

**Prerequisite:** Admittance into the admittance into the speech pathology and audiology professional phase (minimum 3.000 overall GPA at 60 credits) professional phase (minimum 3.000 overall GPA at 60 credits); and Senior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPA 44311 CLINICAL PREPARATION IN SPEECH-LANGUAGE PATHOLOGY (ELR) (WIC) 2 Credit Hours**

The course covers evaluation and intervention methodology for individuals with communication disorders and essential professional written communication skills.

**Prerequisite:** Admittance into the speech pathology and audiology professional phase (3.000 overall GPA at 60 hours).

**Corequisite:** SPA 44310.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**Attributes:** Experiential Learning Requirement, Writing Intensive Course

**SPA 53402 AUDIOMETRY 3 Credit Hours**

(Slashed with SPA 43402) Measurement of human hearing by puretone and speech audiometry# evaluation of middle ear function by immittance audiometry# screening techniques# pathologies of the conductive and sensorineural systems.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPA 53404 AURAL REHABILITATION 3 Credit Hours**

Basic principles, variables and techniques for understanding, evaluating and improving receptive communication of hearing impaired individuals.

**Prerequisite:** Education of hearing impaired majors: SPA 43600; speech pathology and audiology majors: SPA 33101 and SPA 34102 and SPA 43402; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPA 54010 SOCIAL COMMUNICATION DEVELOPMENT AND DISORDERS IN AUTISM SPECTRUM DISORDERS 3 Credit Hours**

Provides an understanding of the social, communication, and language needs of those with ASD from childhood through adulthood. Examines the cognitive, neurological, social, and environmental components influencing social, communicative functioning. Reviews contemporary assessment and intervention strategies. Explores the use of assistive technology to enhance social communicative functioning in those with ASD.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPA 54089 VARIABLE TOPIC INTERNATIONAL EXPERIENCE IN SPEECH PATHOLOGY AND AUDIOLOGY 1-4 Credit Hours**

(Repeatable for credit) (Slashed with SPA 44089 and SPA 74089) A faculty-led study abroad experience that integrates traditional classroom learning with experiential activities and site visits outside the United States. International experience courses may have pre- and post-travel classroom study. Course activities may include, but are not limited to, classroom study, research, field work, internships and service learning.

**Prerequisite:** Graduate standing.

**Schedule Type:** International Experience

**Contact Hours:** 1-4 other

**Grade Mode:** Standard Letter-IP

**SPA 54096 INDEPENDENT STUDY:SPEECH PATHOLOGY AND AUDIOLOGY 2-6 Credit Hours**

(Repeatable for credit) Readings and/or research on problems approved by chair of department in consultation with student's adviser and project director.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Individual Investigation

**Contact Hours:** 2-6 other

**Grade Mode:** Standard Letter

**SPA 54110 SPEECH SCIENCE 3 Credit Hours**

Consideration of physiological and acoustic characteristics of normal speech production and perception with implications for speech and hearing disorders.

**Prerequisite:** SPA 34102 and 34106; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPA 54111 NEURAL PROCESSES IN SPEECH AND LANGUAGE 3 Credit Hours**

Anatomy and physiology of the nervous system underlying speech and language. Topics include: definition and fundamental concepts, afferent and efferent systems, cortical anatomy and function, cranial nerves, theories of brain function and neural maturation and learning.

**Prerequisite:** SPA 34103 or special approval of the instructor; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPA 54112 AGE-RELATED CHANGES IN COMMUNICATION 3 Credit Hours**

Nonpathological age-related changes in speech, language and voice.

Topics include: structural changes in orofacial, laryngeal and respiratory mechanisms; sequelae for speech, language and voice in the elderly; effects of age on swallowing; facilitating conversational interactions with elderly individuals.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPA 54130 COMMUNICATION DISORDERS OF THE AGING 2 Credit Hours**

Hearing, speech and language disorders in geriatric population.

Symptoms, causes and treatment: normal changes in hearing, language and speech accompanying aging process.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**SPA 63691 SEMINAR IN AUDIOLOGY 3 Credit Hours**

(Repeatable for a maximum of 12 credit hours) Research, readings and discussion in any of these areas: aural rehabilitation, amplification, psychoacoustics, auditory physiology, medical audiology, hearing conservation.

**Prerequisite:** Graduate standing.

**Schedule Type:** Seminar

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**SPA 64091 SEMINAR IN COMMUNICATION DISORDERS 1-3 Credit Hours**

(Repeatable for a maximum of 9 credit hours) Special topics seminar for advanced students in speech-language pathology and audiology.

Presentations and discussion of research projects are required.

**Prerequisite:** Graduate standing.

**Schedule Type:** Seminar

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter-S/U-IP

**SPA 64093 WORKSHOP IN COMMUNICATION DISORDERS 1-3 Credit Hours**

(Repeatable for credit) Variable topic workshop offered when need arises, either on or off campus to update training in a particular area of speech pathology.

**Prerequisite:** Graduate standing.

**Schedule Type:** Workshop

**Contact Hours:** 1-3 other

**Grade Mode:** Satisfactory/Unsatisfactory

**SPA 64096 INDIVIDUAL INVESTIGATION: SPEECH PATHOLOGY AND AUDIOLOGY 1-6 Credit Hours**

(Repeatable for a maximum of 12 credit hours) Independent study of topics to be selected in consultation with graduate faculty.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Individual Investigation

**Contact Hours:** 1-6 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**SPA 64098 RESEARCH 1-15 Credit Hours**

(Repeatable for credit) Research or individual investigation for master's level graduate students.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Research

**Contact Hours:** 1-15 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**SPA 64191 SEMINAR: NEUROGENIC COMMUNICATION DISORDERS 1-3 Credit Hours**

(Repeatable for a maximum of 9 credit hours) Reading and discussion seminar on swallowing disorders and the communication disorders relating to aphasia, apraxia, dysarthria, closed head injury, right brain damage and dementia.

**Prerequisite:** SPA 64301; and graduate standing.

**Schedule Type:** Seminar

**Contact Hours:** 1-3 other

**Grade Mode:** Standard Letter-S/U-IP

**SPA 64199 THESIS I 2-6 Credit Hours**

Thesis students must register for a total of 6 hours, 2 to 6 hours in a single semester distributed over several semesters if desired.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Masters Thesis

**Contact Hours:** 2-6 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**SPA 64291 SEMINAR: CHILD LANGUAGE 1-3 Credit Hours**

(Repeatable for a maximum of 9 credit hours) Topics are selected for class investigation from the areas of child language development or disorders.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Seminar

**Contact Hours:** 1-3 other

**Grade Mode:** Standard Letter-S/U-IP

**SPA 64299 THESIS II 2 Credit Hours**

Thesis students must continue registration each semester until all degree requirements are met.

**Prerequisite:** SPA 64199; and graduate standing; and special approval.

**Schedule Type:** Masters Thesis

**Contact Hours:** 2 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**SPA 64301 APHASIA 3 Credit Hours**

Neuroanatomy, etiologies, symptomatologies, evaluation procedures and treatment techniques relating to aphasia in adults.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPA 64302 LANGUAGE ASSESSMENT AND INTERVENTION IN EARLY CHILDHOOD 3 Credit Hours**

Methods of language assessment and intervention for infants, toddlers and preschoolers who are either at risk or diagnosed as presenting language delays or disabilities.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPA 64303 DISORDERS OF ARTICULATION AND PHONOLOGY 3 Credit Hours**

Diagnosis and remediation of children's articulation and phonological disorders.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPA 64304 ACQUIRED COGNITIVE COMMUNICATIVE IMPAIRMENTS 3 Credit Hours**

Cognitive functions and etiologies, symptomologies, evaluation and treatment methods related to adults with cognitive communicative disorders subsequent to right hemisphere damage, traumatic brain injury, dementia and related impairments.

**Prerequisite:** Speech language pathology major; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPA 64305 FLUENCY DISORDERS 3 Credit Hours**

Nature, theories and their derived therapeutic approaches to the treatment of fluency disorders.

**Prerequisite:** Speech language pathology major; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPA 64306 VOICE DISORDERS 2 Credit Hours**

Normal aspects of voice production, etiology and symptomatology of voice disorders, diagnostic procedures and management techniques.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**SPA 64307 DYSARTHRIA 1 Credit Hour**

Neuro-anatomy, etiologies, symptomatologies, evaluation procedures and treatment techniques relating to dysarthria in adults.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 1 lecture

**Grade Mode:** Standard Letter

**SPA 64308 LANGUAGE ASSESSMENT AND INTERVENTION WITH SCHOOL-AGE POPULATIONS 3 Credit Hours**

Theoretical background knowledge and practical assessment and intervention techniques for school-age children who demonstrate language disorders.

**Prerequisite:** SPA 34107; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPA 64309 AUTISM SPECTRUM DISORDERS: THEORY AND DIAGNOSIS 3 Credit Hours**

(Cross-listed with SPA 74309 and SPED 64309) (Slashed with SPED 44309) Provides an overview of autism spectrum disorders (ASD). Examines the history, characteristics, and prevalence of ASD. The different theoretical models for understanding ASD are explored as they relate to assessment and intervention.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPA 64310 AUTISM SPECTRUM DISORDERS: LIFESPAN INTERVENTIONS 3 Credit Hours**

(Cross-listed with SPED 64310) (Slashed with SPA 74310) Provides students with a review of the significant aspects related to educational, social, vocational transitions for children, adolescents, and young adults with autism spectrum disorders (ASD). Students learn skills necessary to evaluate and develop programs designed to meet the changing and long term needs of individuals with ASD.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPA 64311 AUTISM SPECTRUM DISORDERS 2 Credit Hours**

Provides an overview of the social, communication, and language needs of those with autism spectrum disorder. Reviews contemporary assessment and intervention strategies. This course is designed to prepare preservice speech language pathologists with foundational information about autism spectrum disorders.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**SPA 64312 MOTOR SPEECH DISORDERS IN CHILDREN AND ADULTS 3 Credit Hours**

(Slashed with SPA 74312) Anatomic and physiologic bases of congenital and acquired motor speech disorders. Etiology, symptomatology, evaluation and treatment techniques related to variety of motor speech disorders in children and adults.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPA 64354 PEDIATRIC MEDICAL ISSUES 2 Credit Hours**

Nature and rehabilitative procedures for speech-language pathology practice with pediatric medical issues, including dysphagia, maxillofacial anomalies, and resonance disorders.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**SPA 64356 ADULT DYSPHAGIA 3 Credit Hours**

(Slashed with SPA 74356) Anatomy, etiologies, symptomatologies, evaluation procedures and treatment techniques relating to swallowing disorders in adults.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter



**SPA 64391 SEMINAR:SEMINAR: ARTICULATION AND PHONOLOGY 1-3 Credit Hours**

(Repeatable for a maximum of 9 credit hours)Critical review and application of systems and methods for assessment and remediation of articulation and phonological disorders.

**Prerequisite:** Graduate standing.

**Schedule Type:** Seminar

**Contact Hours:** 1-3 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**SPA 64491 SEMINAR:ORGANIC SPEECH DISORDERS 1-3 Credit Hours**

(Repeatable for credit)A revolving topics seminar on theoretical and/or clinical issues related to neurogenic/organic speech and/or language disorders.

**Prerequisite:** Graduate standing.

**Schedule Type:** Seminar

**Contact Hours:** 1-3 other

**Grade Mode:** Standard Letter-S/U-IP

**SPA 64492 CLINICAL PRACTICE IN SPEECH PATHOLOGY AND AUDIOLOGY 1-12 Credit Hours**

(Repeatable for credit) Supervised clinical practice with patients who have speech, hearing or language problems.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Practical Experience

**Contact Hours:** 1-12 other

**Grade Mode:** Standard Letter-IP

**SPA 64500 NORMAL LANGUAGE PROCESSES 3 Credit Hours**

Examines current theory and research specific to normal human development from birth to age 21. Significant neurological, cognitive, social, linguistic, emotional, literacy, and motor developmental changes are explored.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPA 64501 SOCIAL COMMUNICATION ASPECTS OF AUTISM SPECTRUM DISORDER 3 Credit Hours**

(Slashed with SPA 74501) Provides an understanding of the social, communication, and language needs of those with ASD from childhood through adulthood. Examines the cognitive, neurological, social, and environmental components influencing social, communicative functioning. Reviews contemporary assessment and intervention strategies. Explores use of assistive technology to enhance social communicative functioning in those with ASD.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPA 64504 ADVANCED SPEECH AND VOICE SCIENCE 3 Credit Hours**

Application of normal and disordered speech, swallowing, and voice production and perception; survey of literature; theories of production and perception.

**Prerequisite:** SPA 54110; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPA 64525 PUBLIC SCHOOL TECHNIQUES IN COMMUNICATION DISORDERS:INQUIRY INTO PROFESSIONAL PRACTICE 3 Credit Hours**

Inquiry into speech pathology and audiology as practiced in the school setting; emphasis on speech language pathologist or audiologist as disciplined investigator. Combination of themes including organizational procedures, therapy techniques, collaboration, ethics and research.

**Prerequisite:** Graduate standing; and special approval.

**Corequisite:** SPA 64528.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPA 64528 STUDENT TEACHING IN SPEECH-LANGUAGE PATHOLOGY AND AUDIOLOGY 8 Credit Hours**

Inquiry into speech pathology and audiology as practiced in the school setting; emphasis on speech language pathologist or audiologist as disciplined investigator. Combination of themes including organization, procedures, therapy techniques, collaboration, ethics and research.

Students are required to complete Bureau of Criminal Investigation and Identification (BCII) and Federal Bureau of Investigation (FBI) background checks and submit the results to authorized personnel at their assigned 'school/agency' before the first day of the semester in which student teaching/ internship will take place. Training must be presented to the campus office of clinical experience or designated faculty/staff at college of applied and technical studies' campuses as prerequisite for student teaching; and special approval.

**Prerequisite:** Official valid certification of child safety training, approved basic life support and ALICE.

**Corequisite:** SPA 64525.

**Schedule Type:** Practical Experience

**Contact Hours:** 40 other

**Grade Mode:** Satisfactory/Unsatisfactory

**SPA 64591 SEMINAR:FLUENCY DISORDERS 1-3 Credit Hours**

(Repeatable for a maximum 9 credit hours)Seminar dealing with the theoretical and applied aspects of fluency disorders in children and adults.

**Prerequisite:** Graduate standing.

**Schedule Type:** Seminar

**Contact Hours:** 1-3 other

**Grade Mode:** Standard Letter-S/U-IP

**SPA 64600 RESEARCH METHODS IN SPEECH-LANGUAGE PATHOLOGY AND AUDIOLOGY 3 Credit Hours**

Methodologies for collecting, analyzing and interpreting data for clinical and research purposes in speech language pathology and audiology.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPA 64691 SEMINAR:VOICE DISORDERS 1-3 Credit Hours**

(Repeatable for a maximum of 9 credit hours) Current literature review and discussions dealing with varying topics ranging from normal aspects of phonation in various populations to disorders of voice and their diagnosis and treatment.

**Prerequisite:** SPA 6/74306; and graduate standing.

**Schedule Type:** Seminar

**Contact Hours:** 1-3 other

**Grade Mode:** Standard Letter-S/U-IP



**SPA 64791 SEMINAR:SPEECH SCIENCE 1-3 Credit Hours**

(Repeatable for a maximum of 9 credit hours) Consideration of selected topics related to physiological, anatomical and acoustic aspects of speech production and perception.

**Prerequisite:** SPA 4/54110 and SPA 6/74504; graduate standing.

**Schedule Type:** Seminar

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter-S/U-IP

**SPA 64891 SEMINAR:COMMUNICATION MODALITIES AND ASSISTIVE TECHNOLOGY 3 Credit Hours**

(Repeatable for credit) Nature, etiologies and correlates of speech/language communication disorders and differences that may indicate a need for a multi-modal communication approach. Includes an emphasis on assistive technology for communication, language, learning and literacy.

**Prerequisite:** SPA 64500 and SPA 64302; and graduate standing.

**Schedule Type:** Seminar

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**SPA 64991 SEMINAR:CRITICAL TOPICS IN SPEECH LANGUAGE 1-3 Credit Hours**

(Repeatable for credit) Principles and methods of assessment and intervention for various topics in speech-language pathology from critical thinking and case-study framework.

**Prerequisite:** Speech pathology and audiology major only; and graduate standing; and instructor special approval.

**Schedule Type:** Seminar

**Contact Hours:** 1-3 other

**Grade Mode:** Standard Letter-S/U-IP

**SPA 65092 CLINICAL PRACTICUM I IN SPEECH LANGUAGE PATHOLOGY 2-3 Credit Hours**

(Slashed with SPA 75092) (Repeatable twice for credit) Supervised, introductory clinical experience in assessment and intervention with populations within the Scope of Practice of speech language pathology per the current practice policy of the American Speech Language Hearing Association. To facilitate clinical competency and accrual of required clinical clock hours per current ASHA standards, students are expected to enroll in Clinical Practicum each semester that they are not enrolled in Externship or Student Teaching. A grade of B or better in this course is required for permission to register in SPA 65192.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Practical Experience

**Contact Hours:** 8-12 other

**Grade Mode:** Standard Letter-IP

**SPA 65192 CLINICAL PRACTICUM II IN SPEECH AND LANGUAGE PATHOLOGY 2-3 Credit Hours**

(Slashed with SPA 75192) (Repeatable twice for credit) This course includes additional supervised, hands on clinical experience with clients in on campus clinics. Student clinicians are provided with opportunities to demonstrate increased independence in clinical decision making and performance. Practicum requirements may include attendance at a weekly Clinical Colloquium. A grade of B or better in this course is required for registration in SPA 65292.

**Prerequisite:** SPA 65092 with a minimum C grade; and graduate standing; and special approval.

**Schedule Type:** Practical Experience

**Contact Hours:** 8-12 other

**Grade Mode:** Standard Letter-IP

**SPA 65292 CLINICAL PRACTICUM III IN SPEECH LANGUAGE PATHOLOGY 2-3 Credit Hours**

(Slashed with SPA 75292) (Repeatable twice for credit) Includes additional supervised, hands on clinical experience with clients in on campus clinics and or off-campus, supervised clinical experience in sites such as schools or long term care facilities. Students clinicians are provided with opportunities to demonstrate levels of independence in clinical decision making and performance that reflect readiness for Externship or Student Teaching experiences. Practicum requirements may include attendance at a weekly Clinical Colloquium. A grade of B or better in this course is required for permission to register in the following courses: Clinical Practicum IV in Speech Language Pathology SPA 65392, Externship in Speech Language Pathology: Adult SPA 65492, Externship in Speech Language Pathology: Pediatric SPA 65592, Student Teaching in Speech Language Pathology SPA 64528.

**Prerequisite:** SPA 65192 with a minimum B grade; and graduate standing; and special approval.

**Schedule Type:** Practical Experience

**Contact Hours:** 8-12 other

**Grade Mode:** Standard Letter-IP

**SPA 65392 CLINICAL PRACTICUM IV IN SPEECH LANGUAGE PATHOLOGY 2-3 Credit Hours**

(Slashed with SPA 75392) (Repeatable twice for credit) This supervised, hands on clinical experience with clients in on campus clinics or off campus sites is for second year graduate students who are not yet scheduled for externship or student teaching. Students clinicians are provided with opportunities to demonstrate levels of independence in clinical decision making and performance that are reflective of readiness for externship or student teaching experiences. A grade of B or better in this course is required for permission to register in the following courses: Externship in speech language pathology: adult SPA 65492, externship in speech language pathology: pediatric SPA 65592, student teaching in speech language pathology SPA 64528.

**Prerequisite:** SPA 65292 with a minimum B grade; and graduate standing; and special approval.

**Schedule Type:** Practical Experience

**Contact Hours:** 8-12 other

**Grade Mode:** Standard Letter-IP

**SPA 65492 EXTERNSHIP IN SPEECH LANGUAGE PATHOLOGY: ADULT 4-8 Credit Hours**

(Slashed with SPA 75492) (Repeatable once for credit) Considered a culminating clinical experience. Includes supervised, hands-on clinical experience with patients in adult care settings such as hospitals, rehabilitation and long term care facilities.

**Prerequisite:** SPA 65292 or SPA 65392 with a minimum B grade; and graduate standing; and permission.

**Schedule Type:** Practical Experience

**Contact Hours:** 20-40 other

**Grade Mode:** Standard Letter-IP

**SPA 65592 EXTERNSHIP IN SPEECH LANGUAGE PATHOLOGY: PEDIATRIC 4-8 Credit Hours**

(Slashed with SPA 75592) (Repeatable once for credit) Considered a culminating clinical experience. Students may choose this course as an alternative to student teaching in speech-language pathology. Includes supervised, hands-on clinical experience with children and adolescents in pediatric care settings such as hospitals and other habilitation and rehabilitation facilities.

**Prerequisite:** SPA 65292 or SPA 65392 with a minimum B grade; and graduate standing; and special approval.

**Schedule Type:** Practical Experience

**Contact Hours:** 20-40 other

**Grade Mode:** Standard Letter-IP

**SPA 70615 CENTRAL AUDITORY PROCESSING EVALUATION AND MANAGEMENT 2 Credit Hours**

Study of audiologic evaluation and (re)habilitation procedures for people central auditory processing disorders.

**Prerequisite:** SPA 70705 and SPA 70706; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**SPA 70616 HEARING AID FITTING AND SELECTION ACROSS THE LIFESPAN 4 Credit Hours**

Examination of the theory and practice of fitting hearing aids across the lifespan. Emphasis on special clinical procedures, research needs and evolving technology in hearing instruments.

**Prerequisite:** Admission to the audiology major; and SPA 70713; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 4 lecture

**Grade Mode:** Standard Letter

**SPA 70618 IMPLANTABLE TECHNOLOGY 4 Credit Hours**

Study of implantable devices in children and adults including equipment, candidacy, programming, fitting, and troubleshooting.

**Prerequisite:** Admission to the audiology major; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 4 lecture

**Grade Mode:** Standard Letter

**SPA 70627 MULTICULTURAL ISSUES IN AUDIOLOGY 2 Credit Hours**

An introduction to varying cultures and the audiologist's roles and responsibilities in planning treatment with a member of these cultures.

**Prerequisite:** Admission to the audiology major; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**SPA 70630 PRACTICE MANAGEMENT IN AUDIOLOGY 3 Credit Hours**

Study of issues which impact the management of audiological practices, including establishing a private practice, reimbursement, marketing, record keeping and professional liability.

**Prerequisite:** Admission to the audiology major; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPA 70691 SEMINAR IN AUDIOLOGY 2 Credit Hours**

(Repeatable for credit) Selected current topics in audiology with emphasis on review of current literature.

**Prerequisite:** Admission to the AUD program or special approval of the instructor; and doctoral standing.

**Schedule Type:** Seminar

**Contact Hours:** 2 other

**Grade Mode:** Standard Letter

**SPA 70692 INTERNSHIP IN AUDIOLOGY 2 Credit Hours**

(Repeatable for credit) Supervised practicum in audiology requiring the independent performance of basic audiologic procedures, including hearing aid management.

**Prerequisite:** SPA 70744; and doctoral standing; and special approval.

**Schedule Type:** Practical Experience

**Contact Hours:** 18 other

**Grade Mode:** Standard Letter

**SPA 70701 BASIC AND APPLIED PHYSICAL ACOUSTICS FOR AUDIOLOGY 4 Credit Hours**

Study of physical acoustics, basic electricity and electronics, as well as principles, methodology, calibration and maintenance of audiologic equipment.

**Prerequisite:** Admission to the AUD program or special approval of instructor; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 4 lecture

**Grade Mode:** Standard Letter

**SPA 70702 ANATOMY AND PHYSIOLOGY OF PERIPHERAL AUDITORY AND VESTIBULAR SYSTEMS 3 Credit Hours**

A study of the anatomy, biophysics and physiology of the auditory and vestibular systems.

**Prerequisite:** Admission to the AUD program or special approval of instructor; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPA 70703 ACOUSTIC PHONETICS 3 Credit Hours**

Study of the acoustics, measurement and nomenclature of speech sounds and theoretical and acoustic bases of speech perception (includes 1 hour lab).

**Prerequisite:** Admission to the AUD program; and doctoral standing.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**SPA 70704 CRITICAL ANALYSIS OF RESEARCH IN AUDIOLOGY 2 Credit Hours**

General introduction to the research process with an emphasis on acquiring a reading knowledge of research and an ability to evaluate research.

**Prerequisite:** Admission to the AUD program; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**SPA 70705 AUDITORY DISORDERS 2 Credit Hours**

Study of conditions/diseases that can affect the auditory system.

**Prerequisite:** Admission to the AUD program; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**SPA 7076 ANATOMY AND PHYSIOLOGY UNDERLYING NEURO-OTOLOGY 4 Credit Hours**

An in-depth study of the anatomy and physiology of the central auditory and vestibular nervous system (includes 1 hour lab.)

**Prerequisite:** SPA 70702; and doctoral standing.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 4 other

**Grade Mode:** Standard Letter

**SPA 7077 PSYCHOACOUSTICS 3 Credit Hours**

Study of the principles, procedures and research of psychoacoustics; the relationships between the physical dimensions of auditory stimuli and the resultant perceptual experience with normal and impaired hearing.

**Prerequisite:** Admission to the AUD program; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPA 7078 CRITICAL ANALYSIS OF RESEARCH 2 Credit Hours**

Development of a reading knowledge of research and the ability to evaluate the quality of research studies.

**Prerequisite:** SPA 70704; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**SPA 70709 AUDIOLOGIC ASSESSMENT 3 Credit Hours**

Theoretical basis for tests underlying basic audiologic assessments.

**Prerequisite:** Admission to the AUD program; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPA 70710 INDUSTRY AND COMMUNITY NOISE 3 Credit Hours**

Theoretical principles of noise measurement; etiology of noise-induced hearing loss and acoustic trauma; industrial hearing conservation programs; occupational safety and health act; community and recreational noise evaluation and management.

**Prerequisite:** Admission to the AUD program; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPA 70711 SPEECH-LANGUAGE PATHOLOGY FOR THE AUDIOLOGIST 3 Credit Hours**

Examination of normal and abnormal aspects of speech and language including their impact on auditory function and testing.

**Prerequisite:** Admission to the AUD program; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPA 70712 DIAGNOSIS OF AUDITORY DISORDERS 3 Credit Hours**

Underlying theory and principles of administration and interpretation of site-of-lesion tests.

**Prerequisite:** SPA 70709; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPA 70713 HEARING AID TECHNOLOGY 4 Credit Hours**

Study of amplification systems for the hearing impaired.

**Prerequisite:** SPA 70701; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 4 lecture

**Grade Mode:** Standard Letter

**SPA 70714 GERONTOLOGICAL ISSUES IN AUDIOLOGY 3 Credit Hours**

Physiological, psychological and sociological theories of aging with a focus on the etiology, symptomatology, assessment and rehabilitation of older adults with hearing impairments.

**Prerequisite:** Admission to the AUD program; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPA 70715 CENTRAL AUDITORY PROCESSING: EVALUATION AND MANAGEMENT 3 Credit Hours**

Study of audiologic evaluation and habilitation/rehabilitation procedures for people having central auditory disabilities.

**Prerequisite:** SPA 70705 and SPA 70706; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPA 70716 ADULT HEARING-AID FITTING AND SELECTION 3 Credit Hours**

Examination of the theory and practice of fitting hearing aids. Emphasis on special clinical procedures research needs and evolving technology in hearing instruments. Includes a one hour lab.

**Prerequisite:** SPA 70713; and doctoral standing.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**SPA 70717 PEDIATRIC AUDIOLOGY 3 Credit Hours**

Study of audiologic diagnostic and auditory habilitative protocols for the birth to 3 population. Both assessment and management strategies will be emphasized.

**Prerequisite:** SPA 70709; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPA 70718 COCHLEAR IMPLANTS 2 Credit Hours**

Study of cochlear implants in children and adults including equipment, candidacy, mapping and overview of (re)habilitation.

**Prerequisite:** Admission to the AUD program; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**SPA 70719 COUNSELING IN AUDIOLOGY 3 Credit Hours**

Focus on interviewing, counseling and interacting with individuals with hearing impairments their families and significant others.

**Prerequisite:** Admission to the AUD program; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPA 70720 PEDIATRIC AMPLIFICATIONS 3 Credit Hours**

The focus of study is on amplification systems and fitting techniques for the pediatric population.

**Prerequisite:** SPA 70713 and SPA 70716 and SPA 70717; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPA 70721 EVALUATION AND MANAGEMENT OF BALANCE DISORDERS 3 Credit Hours**

Study of the balance mechanism; differential diagnostic assessment of balance disorders including electronystagmography, posturography and rotational testing; rehabilitation of the balance disordered patient (1 hour lab included.)

**Prerequisite:** Admission to the AUD program or special approval of instructor; and doctoral standing.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**SPA 70722 AUDIOLOGIC MANAGEMENT OF THE SCHOOL-AGE CHILD 3 Credit Hours**

Focus on educational audiology. Features delivery of audiologic services designed to access the school environment for children ages 4-21.

**Prerequisite:** SPA 70717; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPA 70723 AUDIOLOGIC TREATMENT OF ADULTS 3 Credit Hours**

Study of current methodologies employed in the audiologic rehabilitation of adults with hearing impairments. Implementation of remedial strategies is emphasized.

**Prerequisite:** SPA 70716 or doctoral standing; and special approval of instructor.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPA 70724 HISTORY OF AUDIOLOGY 1 Credit Hour**

An examination of the history of deafness/hearing impairment and the profession of audiology.

**Prerequisite:** Admission to the AUD program; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 1 lecture

**Grade Mode:** Standard Letter

**SPA 70725 MEDICAL MANAGEMENT OF AUDITORY DISORDERS 2 Credit Hours**

A study of the multidisciplinary approach to medical/surgical management of patients with auditory and vestibular disorders.

**Prerequisite:** SPA 70712; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**SPA 70726 ELECTROPHYSIOLOGICAL TECHNIQUES IN AUDIOLOGY 3 Credit Hours**

Study of evoked responses used in diagnostic audiology, including ABR, MLR, ECHOCHG, ENOG, ALR, P300, VER, and SSER.

**Prerequisite:** SPA 70706; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPA 70727 CULTURAL ISSUES IN DEAFNESS 2 Credit Hours**

An introduction to deaf culture and the audiologist's roles and responsibilities in planning treatment with a member of the deaf community.

**Prerequisite:** Admission to the AUD program; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**SPA 70730 PRACTICE MANAGEMENT IN AUDIOLOGY 4 Credit Hours**

Study of issues which impact the management of audiological practices, including establishing a private practice, reimbursement, marketing, record keeping and professional liability.

**Prerequisite:** Admission to the AUD program; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 4 lecture

**Grade Mode:** Standard Letter

**SPA 70732 AUDIOLOGIC TREATMENT ACROSS THE LIFESPAN 4 Credit Hours**

Study of current methodologies employed in the audiologic treatment of people with hearing loss across the lifespan. Implementation of remedial strategies is emphasized.

**Prerequisite:** Admission to the audiology major; and SPA 70616; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 4 lecture

**Grade Mode:** Standard Letter

**SPA 70733 ADVANCED ELECTROPHYSIOLOGIC AND VESTIBULAR MEASURES 4 Credit Hours**

Advanced considerations in balance function assessment and management and in the study of evoked responses used in diagnostic audiology.

**Prerequisite:** Admission into the audiology program; and SPA 70726 and SPA 70721; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 4 lecture

**Grade Mode:** Standard Letter

**SPA 70734 PRINCIPLES IN PRECEPTING 1 Credit Hour**

Examination of the concepts and practices essential to the preceptor role. Emphasis on professional standards, adult learning theories, communication styles, ethical principles, and the multiple roles of a preceptor (educator, role model, mentor, facilitator and evaluator).

**Prerequisite:** Admission into the audiology major; and SPA 70748; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 1 lecture

**Grade Mode:** Standard Letter

**SPA 70741 DIRECTED OBSERVATION IN AUDIOLOGY I 1 Credit Hour**

Introduction to clinical practicum in audiology. Directed observation of clinical practice including audiologic diagnosis and audiologic rehabilitation are required.

**Prerequisite:** Admission to the AUD program or special approval of the instructor; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 1 lecture

**Grade Mode:** Standard Letter

**SPA 70742 DIRECTED OBSERVATION IN AUDIOLOGY II 1 Credit Hour**

Introduction to clinical practicum in audiology. Directed observation of clinical practice including audiologic diagnosis and audiologic rehabilitation are required.

**Prerequisite:** Admission to the AUD program; and doctoral standing; and special approval.

**Schedule Type:** Practical Experience

**Contact Hours:** 1 other

**Grade Mode:** Standard Letter



**SPA 70743 CLERKSHIP I 1 Credit Hour**

Clinical practicum in audiology during which students perform discrete tasks under supervision.

**Prerequisite:** Doctoral standing; and special approval of instructor.

**Corequisite:** SPA 70709.

**Schedule Type:** Practical Experience

**Contact Hours:** 1 other

**Grade Mode:** Standard Letter

**SPA 70744 CLERKSHIP II 1 Credit Hour**

Supervised clinical practicum in audiology during which students will perform discrete clinical tasks while under supervision.

**Prerequisite:** SPA 70743; and doctoral standing; and special approval.

**Schedule Type:** Practical Experience

**Contact Hours:** 1 other

**Grade Mode:** Standard Letter

**SPA 70747 GRADUATE AUDIOLOGIST I 3 Credit Hours**

Supervised clinical practicum in audiology which encompasses audiologic assessments and audiologic habilitation.

**Prerequisite:** SPA 70792; and doctoral standing.

**Schedule Type:** Practical Experience

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**SPA 70748 GRADUATE AUDIOLOGIST II 3 Credit Hours**

Supervised clinical practicum in audiology requiring the independent performance of audiologic assessment procedures, audiologic rehabilitation and vestibular assessment and rehabilitation.

**Prerequisite:** SPA 70747; and doctoral standing; and special approval.

**Schedule Type:** Practical Experience

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**SPA 70749 GRADUATE AUDIOLOGIST III 8 Credit Hours**

Full-time clinical practicum in audiology at an off-campus site.

**Prerequisite:** Passing score of 600 or higher on the PRAXIS examination; and SPA 70748; and doctoral standing and special approval.

**Corequisite:** SPA 70791.

**Schedule Type:** Practical Experience

**Contact Hours:** 8 other

**Grade Mode:** Standard Letter

**SPA 70750 GRADUATE AUDIOLOGIST IV 8 Credit Hours**

Full-time clinical practicum in audiology at an off-campus site. Students taking the course must have successfully completed the Praxis Examination.

**Prerequisite:** SPA 70749; and doctoral standing.

**Corequisite:** SPA 70791.

**Schedule Type:** Practical Experience

**Contact Hours:** 8 other

**Grade Mode:** Standard Letter

**SPA 70751 GRADUATE AUDIOLOGIST V 3 Credit Hours**

Full-time clinical practicum in audiology at an off-campus site.

**Prerequisite:** SPA 70750; and doctoral standing.

**Schedule Type:** Practical Experience

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**SPA 70753 LABORATORY FOR ELECTROPHYSIOLOGICAL TECHNIQUES IN AUDIOLOGY 1 Credit Hour**

Laboratory exercises for the assessment of auditory disorders including electrocochleography, the auditory brainstem response and auditory steady state responses.

**Prerequisite:** Audiology major; and doctoral standing.

**Corequisite:** SPA 70726.

**Schedule Type:** Laboratory

**Contact Hours:** 3 lab

**Grade Mode:** Standard Letter

**SPA 70754 LABORATORY FOR EVALUATION AND MANAGEMENT OF BALANCE DISORDERS 1 Credit Hour**

Laboratory exercises for the assessment of balance disorders including videonystagmography, posturography and informal evaluations; approaches for the rehabilitation and treatment of the balance disordered patient.

**Prerequisite:** Audiology major; and doctoral standing.

**Corequisite:** SPA 70721.

**Schedule Type:** Laboratory

**Contact Hours:** 3 lab

**Grade Mode:** Standard Letter

**SPA 70755 LABORATORY FOR ADVANCED ELECTROPHYSIOLOGIC AND VESTIBULAR MEASURES 1 Credit Hour**

Laboratory exercises for the assessment, management and treatment of auditory and vestibular disorders including early, middle and late auditory evoked potentials and advanced vestibular measures.

**Prerequisite:** Audiology major; and doctoral standing.

**Corequisite:** SPA 70733.

**Schedule Type:** Laboratory

**Contact Hours:** 3 lab

**Grade Mode:** Standard Letter

**SPA 70791 FOURTH YEAR SEMINAR 1 Credit Hour**

(Repeatable for credit) In-depth consideration of topics/issues in the practice of audiology with emphasis upon issues related to clinical rotation.

**Prerequisite:** Doctoral standing; and special approval.

**Corequisite:** SPA 70750 or SPA 70751.

**Schedule Type:** Seminar

**Contact Hours:** 1 other

**Grade Mode:** Standard Letter

**SPA 70792 INTERNSHIP IN AUDIOLOGY 2 Credit Hours**

(Repeatable for credit) Supervised clinical practicum in audiology requiring the independent performance of diagnostic, hearing aids and audiologic rehabilitation procedures. Students are required to complete Bureau of Criminal Investigation and Identification (BCII) and Federal Bureau of Investigation (FBI) background checks and submit the results to authorized personnel at their assigned 'school/agency' before the first day of the semester in which student teaching/internship will take place.

**Prerequisite:** SPA 70692; and doctoral standing.

**Schedule Type:** Practical Experience

**Contact Hours:** 18 other

**Grade Mode:** Standard Letter

**SPA 70798 RESEARCH PROJECT IN AUDIOLOGY 3 Credit Hours**

(Repeatable for credit) Completion of a doctoral research project including data collection, analysis write-up and oral presentation.

**Prerequisite:** Admission to the AUD program; and doctoral standing.

**Schedule Type:** Research

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter-IP



**SPA 70892 INTERNSHIP III 2 Credit Hours**

Clinical practicum in audiology during which students perform discrete tasks under supervision.

**Prerequisite:** Admission to the audiology major; and doctoral standing; and special approval.

**Schedule Type:** Practical Experience

**Contact Hours:** 18 other

**Grade Mode:** Standard Letter

**SPA 70992 INTERNSHIP IV 2 Credit Hours**

Clinical practicum in audiology during which students perform discrete tasks under supervision.

**Prerequisite:** Doctoral standing; and special approval.

**Schedule Type:** Practical Experience

**Contact Hours:** 18 other

**Grade Mode:** Standard Letter

**SPA 73691 SEMINAR IN AUDIOLOGY 3 Credit Hours**

(Repeatable for a maximum of 12 credit hours) Research, readings and discussion in any of these areas: aural rehabilitation, amplification, psychoacoustics, auditory physiology, medical audiology, hearing conservation.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Seminar

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**SPA 74089 VARIABLE TOPIC INTERNATIONAL EXPERIENCE IN SPEECH PATHOLOGY AND AUDIOLOGY 1-4 Credit Hours**

(Repeatable for credit) (Slashed with SPA 44089 and SPA 54089) A faculty-led study abroad experience that integrates traditional classroom learning with experiential activities and site visits outside the United States. International experience courses may have pre- and post-travel classroom study. Course activities may include, but are not limited to, classroom study, research, field work, internships and service learning.

**Prerequisite:** Doctoral standing.

**Schedule Type:** International Experience

**Contact Hours:** 1-4 other

**Grade Mode:** Standard Letter-IP

**SPA 74093 WORKSHOP IN COMMUNICATION DISORDERS 1-3 Credit Hours**

(Repeatable for credit) Variable topic workshop offered when need arises, either on or off campus to update training in a particular area of speech pathology.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Workshop

**Contact Hours:** 1-3 other

**Grade Mode:** Satisfactory/Unsatisfactory

**SPA 74191 SEMINAR:NEUROGENIC COMMUNICATION DISORDERS 1-3 Credit Hours**

(Repeatable for a maximum of 9 credit hours) Reading and discussion seminar on swallowing disorders and the communication disorders relating to aphasia, apraxia, dysarthria, closed head injury, right brain damage and dementia.

**Prerequisite:** SPA 64301; and doctoral standing.

**Schedule Type:** Seminar

**Contact Hours:** 1-3 other

**Grade Mode:** Standard Letter-S/U-IP

**SPA 74291 SEMINAR:CHILD LANGUAGE 1-3 Credit Hours**

(Repeatable for a maximum of 9 credit hours) Topics are selected for class investigation from the areas of child language, development or disorders.

**Prerequisite:** Doctoral standing; and special approval.

**Schedule Type:** Seminar

**Contact Hours:** 1-3 other

**Grade Mode:** Standard Letter-S/U-IP

**SPA 74301 APHASIA 3 Credit Hours**

Neuroanatomy, etiologies, symptomatologies, evaluation procedures and treatment techniques relating to aphasia in adults.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPA 74302 LANGUAGE ASSESSMENT AND INTERVENTION IN EARLY CHILDHOOD 3 Credit Hours**

Methods of language assessment and intervention for infants, toddlers and preschoolers who are either at risk or diagnosed as presenting language delays or disabilities.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPA 74303 DISORDERS OF ARTICULATION AND PHONOLOGY 3 Credit Hours**

Diagnosis and remediation of children's articulation and phonological disorders.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPA 74304 ACQUIRED COGNITIVE COMMUNICATIVE IMPAIRMENTS 3 Credit Hours**

Cognitive functions and etiologies, symptomologies, evaluation and treatment methods related to adults with cognitive communicative disorders subsequent to right hemisphere damage, traumatic brain injury, dementia and related impairments.

**Prerequisite:** Speech language pathology major; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPA 74305 FLUENCY DISORDERS 3 Credit Hours**

Nature, theories and their derived approaches to the assessment and treatment of fluency disorders.

**Prerequisite:** Speech language pathology major; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPA 74306 VOICE DISORDERS 2 Credit Hours**

Normal aspects of voice production, etiology and symptomatology of voice disorders, diagnostic procedures and management techniques.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**SPA 74307 DYSARTHRIA 1 Credit Hour**

Neuro-anatomy, etiologies, symptomatologies, evaluation procedures and treatment techniques relating to dysarthria in adults.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 1 lecture

**Grade Mode:** Standard Letter

**SPA 74308 LANGUAGE ASSESSMENT AND INTERVENTION WITH SCHOOL-AGE POPULATIONS 3 Credit Hours**

Theoretical background knowledge and practical assessment and intervention techniques for school-age children who demonstrate language disorders.

**Prerequisite:** SPA 34107; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPA 74309 AUTISM SPECTRUM DISORDERS: THEORY AND DIAGNOSIS 3 Credit Hours**

(Cross-listed with SPED 44309 and SPED 64309) (Slashed with SPA 64309) Provides an overview of Autism Spectrum Disorders (ASD). Examines the history, characteristics, and prevalence of ASD. Assessment and intervention models are explored as they relate to various theoretical models for understanding ASD.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPA 74310 AUTISM SPECTRUM DISORDERS: LIFESPAN INTERVENTIONS 3 Credit Hours**

(Cross-listed with SPA 64310) (Slashed with SPED 64310) Provides students with a review of the significant aspects related to educational, social, vocational transitions for children, adolescents, and young adults with autism spectrum disorders (ASD). Students learn skills necessary to evaluate and develop programs designed to meet the changing and long term needs of individuals with ASD.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPA 74312 MOTOR SPEECH DISORDERS IN CHILDREN AND ADULTS 3 Credit Hours**

(Slashed with SPA 64312) Anatomic and physiologic bases of congenital and acquired motor speech disorders. Etiology, symptomatology, evaluation and treatment techniques related to variety of motor speech disorders in children and adults.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPA 74354 PEDIATRIC MEDICAL ISSUES 2 Credit Hours**

Nature and rehabilitative procedures for speech-language pathology practice with pediatric medical issues, including dysphagia and maxillofacial anomalies and resonance disorders.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**SPA 74356 ADULT DYSPHAGIA 3 Credit Hours**

Anatomy, etiologies, symptomatologies, evaluation procedures and treatment techniques relating to swallowing disorders in adults.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPA 74391 SEMINAR:ARTICULATION AND PHONOLOGY 1-3 Credit Hours**

(Repeatable for a maximum of 9 credit hours)Critical review and application of systems and methods for assessment and remediation of articulation and phonological disorders.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Seminar

**Contact Hours:** 1-3 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**SPA 74491 SEMINAR:ORGANIC SPEECH DISORDERS 1-3 Credit Hours**

(Repeatable for credit)A revolving topics seminar on theoretical and/or clinical issues related to neurogenic/organic speech and/or language disorders.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Seminar

**Contact Hours:** 1-3 other

**Grade Mode:** Standard Letter-S/U-IP

**SPA 74492 CLINICAL PRACTICE IN SPEECH PATHOLOGY AND AUDIOLOGY 1-12 Credit Hours**

(Repeatable for credit) Supervised clinical practice with patients who have speech, hearing or language problems.

**Prerequisite:** Doctoral standing; and special approval.

**Schedule Type:** Practical Experience

**Contact Hours:** 1-12 other

**Grade Mode:** Standard Letter-IP

**SPA 74500 NORMAL LANGUAGE PROCESSES 3 Credit Hours**

Examines current theory and research specific to normal human development from birth to age 21. Significant neurological, cognitive, social, linguistic, emotional, literacy, and motor developmental changes are explored..

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPA 74501 SOCIAL COMMUNICATION ASPECTS OF AUTISM SPECTRUM DISORDER 3 Credit Hours**

Provides an understanding of the social, communication, and language needs of those with ASD from childhood through adulthood. Examines the cognitive, neurological, social, and environmental components influencing social, communicative functioning. Reviews contemporary assessment and intervention strategies. Explores use of assistive technology to enhance social communicative functioning in those with ASD.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPA 74504 ADVANCED SPEECH AND VOICE SCIENCE 3 Credit Hours**

Application of normal and disordered speech, swallowing, and voice production and perception; survey of literature; theories of production and perception.

**Prerequisite:** SPA 4/54110; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPA 74591 SEMINAR:FLUENCY DISORDERS 1-3 Credit Hours**

(Repeatable for a maximum of 9 credit hours)Seminar dealing with the theoretical and applied aspects of fluency disorders in children and adults.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Seminar

**Contact Hours:** 1-3 other

**Grade Mode:** Standard Letter-S/U-IP

**SPA 74592 CLERKSHIP I 1 Credit Hour**

Introduction to clinical practicum in audiology. Directed observation of clinical practice including audiologic diagnosis and audiologic rehabilitation are required.

**Prerequisite:** Admission to the audiology major; and doctoral standing; and special approval.

**Schedule Type:** Practical Experience

**Contact Hours:** 18 other

**Grade Mode:** Satisfactory/Unsatisfactory

**SPA 74600 RESEARCH METHODS IN SPEECH-LANGUAGE PATHOLOGY 3 Credit Hours**

Methodologies for collecting, analyzing and interpreting data for clinical and research purposes in speech language pathology and audiology.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPA 74691 SEMINAR:VOICE DISORDERS 1-3 Credit Hours**

(Repeatable for a maximum of 9 credit hours) Current literature review and discussions dealing with varying topics ranging from normal aspects of phonation in various populations to disorders of voice and their diagnosis and treatment.

**Prerequisite:** SPA 6/74306; and doctoral standing.

**Schedule Type:** Seminar

**Contact Hours:** 1-3 other

**Grade Mode:** Standard Letter-S/U-IP

**SPA 74692 CLERKSHIP II 1 Credit Hour**

Introduction to clinical practicum in audiology. Directed observation of clinical practice including audiologic diagnosis and audiologic rehabilitation are required.

**Prerequisite:** Admission to the audiology major; and doctoral standing; and special approval.

**Schedule Type:** Practical Experience

**Contact Hours:** 1 other

**Grade Mode:** Satisfactory/Unsatisfactory

**SPA 74791 SEMINAR:SPEECH SCIENCE 1-3 Credit Hours**

(Repeatable for a maximum of 9 credit hours) Consideration of selected topics related to physiological, anatomical and acoustic aspects of speech production and perception.

**Prerequisite:** SPA 4/54110 or SPA 6/74504; and doctoral standing.

**Schedule Type:** Seminar

**Contact Hours:** 1-3 other

**Grade Mode:** Standard Letter-S/U-IP

**SPA 74792 GRADUATE AUDIOLOGIST III 6 Credit Hours**

Supervised clinical practicum in audiology which encompasses the entire range of audiologic procedures including neurophysiological based procedures.

**Prerequisite:** Passing score of 600 or higher on the PRAXIS examination; and SPA 70748; and doctoral standing; and special approval.

**Corequisite:** SPA 70791.

**Schedule Type:** Practical Experience

**Contact Hours:** 18 other

**Grade Mode:** Standard Letter

**SPA 74891 SEMINAR:COMMUNICATION MODALITIES AND ASSISTIVE TECHNOLOGY 3 Credit Hours**

(Repeatable for credit)Nature, etiologies and correlates of speech language communication disorders and differences that may indicate a need for a multi-modal communication approach. Includes an emphasis on assistive technology for communication language, learning and literacy.

**Prerequisite:** Speech language pathology major; and doctoral standing.

**Schedule Type:** Seminar

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**SPA 74892 GRADUATE AUDIOLOGIST V 8 Credit Hours**

Full-time external audiology clinical placement with a licensed and appropriately credentialed preceptor who provides clinical teaching. This experience provides a capstone learning experience in the full scope of practice in the profession of audiology.

**Prerequisite:** SPA 70750; and doctoral standing; and special approval.

**Schedule Type:** Practical Experience

**Contact Hours:** 24 other

**Grade Mode:** Standard Letter

**SPA 74991 SEMINAR:CRITICAL TOPICS IN SPEECH LANGUAGE PATHOLOGY 1-3 Credit Hours**

(Repeatable for credit) Principles and methods of assessment and intervention for various topics in speech-language pathology from critical thinking and case-study framework.

**Prerequisite:** Speech pathology and audiology major; and doctoral standing.

**Schedule Type:** Seminar

**Contact Hours:** 1-3 other

**Grade Mode:** Standard Letter-S/U-IP

**SPA 75092 CLINICAL PRACTICUM I IN SPEECH LANGUAGE PATHOLOGY 2-3 Credit Hours**

(Slashed with SPA 65092) (Repeatable twice for credit) Supervised, introductory clinical experience in assessment and intervention with populations within the scope of practice of speech language pathology per the current practice policy of the American Speech Language Hearing Association. To facilitate clinical competency and accrual of required clinical clock hours per current ASHA standards, students are expected to enroll in clinical practicum each semester that they are not enrolled in externship or student teaching. A grade of B or better in this course is required for permission to register in CLIN PR II SPE LANG PATH-SPA 65192.

**Prerequisite:** Doctoral standing; and special approval.

**Schedule Type:** Practical Experience

**Contact Hours:** 8-12 other

**Grade Mode:** Standard Letter-IP

**SPA 75192 CLINICAL PRACTICUM II IN SPEECH LANGUAGE PATHOLOGY 2-3 Credit Hours**

(Slashed with SPA 65192) (Repeatable twice for credit) This course includes additional supervised hands on clinical experience with clients in on campus clinics. Student clinicians are provided with opportunities to demonstrate increased independence in clinical decision making and performance. Practicum requirements may include attendance at a weekly Clinical Colloquium. A grade of B or better in this course is required for permission to enroll in Clinical Practicum III in Speech Language Pathology SPA 75292.

**Prerequisite:** SPA 75092 with a minimum B grade; and doctoral standing; and special approval.

**Schedule Type:** Practical Experience

**Contact Hours:** 8-12 other

**Grade Mode:** Standard Letter-IP

**SPA 75292 CLINICAL PRACTICUM III IN SPEECH LANGUAGE PATHOLOGY 2-3 Credit Hours**

(Slashed with SPA 65292) (Repeatable twice for credit) Includes additional supervised, hands-on clinical experience with clients in on campus clinics and or off campus, supervised clinical experience in sites such as schools or long-term care facilities. Students clinicians are provided with opportunities to demonstrate levels of independence in clinical decision-making and performance that reflect readiness for externship or student teaching experiences. Practicum requirements may include attendance at a weekly clinical colloquium. A grade of B or better in this course is required for permission to register in the following courses: clinical practicum IV in speech language pathology SPA 75392, externship in speech language pathology: adult SPA 75492, externship in speech language pathology: pediatric SPA 75592, student teaching in speech language pathology SPA 64528.

**Prerequisite:** SPA 75192 with a minimum B grade; and doctoral standing; and special approval.

**Schedule Type:** Practical Experience

**Contact Hours:** 8-12 other

**Grade Mode:** Standard Letter-IP

**SPA 75392 CLINICAL PRACTICUM IV IN SPEECH LANGUAGE PATHOLOGY 2-3 Credit Hours**

(Repeatable for credit) This supervised, hands on clinical experience with clients in on campus clinics or off campus sites is for second year graduate students who are not yet scheduled for externship or student teaching. Students clinicians are provided with opportunities to demonstrate levels of independence in clinical decision making and performance that are reflective of readiness for externship or student teaching experiences. A grade of B or better in this course is required for permission to register in the following courses: externship in speech language pathology: adult SPA 75492, externship in speech language pathology: pediatric SPA 75592, student teaching in speech language pathology SPA 64528.

**Prerequisite:** SPA 75292 with a minimum B grade; and doctoral standing; and special approval.

**Schedule Type:** Practical Experience

**Contact Hours:** 8-12 other

**Grade Mode:** Standard Letter-IP

**SPA 75492 EXTERNSHIP IN SPEECH LANGUAGE PATHOLOGY: ADULT 4-8 Credit Hours**

(Cross-listed with SPA 65492) (Repeatable once for credit) Considered a culminating clinical experience. Includes supervised, hands on clinical experience with patients in adult care settings such as hospitals, rehabilitation and long term care facilities.

**Prerequisite:** SPA 75292 or SPA 75392 with a minimum B grade; and doctoral standing; and special approval.

**Schedule Type:** Practical Experience

**Contact Hours:** 20-40 other

**Grade Mode:** Standard Letter-IP

**SPA 75592 EXTERNSHIP IN SPEECH LANGUAGE PATHOLOGY: PEDIATRIC 4-8 Credit Hours**

(Slashed with SPA 65592) (Repeatable once for credit) Considered a culminating clinical experience. Students may choose this course as an alternative to Student Teaching in Speech Language Pathology. Includes supervised, hands on clinical experience with children and adolescents in pediatric care settings such as hospitals and other habilitation and rehabilitation facilities.

**Prerequisite:** SPA 75292 or SPA 75392 with a minimum B grade; and doctoral standing; and special approval.

**Schedule Type:** Practical Experience

**Contact Hours:** 20-40 other

**Grade Mode:** Standard Letter-IP

**SPA 75792 INTERNSHIP I 1 Credit Hour**

Clinical practicum in audiology during which students perform discrete tasks under supervision.

**Prerequisite:** Admission to the audiology major; and doctoral standing; and special approval.

**Corequisite:** SPA 70709.

**Schedule Type:** Practical Experience

**Contact Hours:** 18 other

**Grade Mode:** Standard Letter

**SPA 76792 INTERNSHIP II 1 Credit Hour**

Supervised clinical practicum in audiology during which students will perform discrete clinical tasks while under supervision.

**Prerequisite:** Admission to the audiology major; and SPA 75792; and doctoral standing and special approval.

**Schedule Type:** Practical Experience

**Contact Hours:** 18 other

**Grade Mode:** Standard Letter

**SPA 84091 SEMINAR IN COMMUNICATION DISORDERS 2 Credit Hours**

(Repeatable for a maximum 9 credit hours)Special topics seminar for advanced students in speech-language pathology and audiology. Presentations and discussion of research projects are required.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Seminar

**Contact Hours:** 2 other

**Grade Mode:** Standard Letter

**SPA 84096 INDIVIDUAL INVESTIGATION-SPEECH PATHOLOGY AND AUDIOLOGY 1-6 Credit Hours**

(Repeatable for a maximum of 12 credit hours)Independent study of topics to be selected in consultation with graduate faculty.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Individual Investigation

**Contact Hours:** 1-6 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP



**SPA 84098 RESEARCH 1-15 Credit Hours**

(Repeatable for credit) Research opportunities for doctoral students who have not yet passed their candidacy examination.

**Prerequisite:** Doctoral standing; and special approval.

**Schedule Type:** Research

**Contact Hours:** 1-15 other

**Grade Mode:** Standard Letter-S/U-IP

**SPA 84199 DISSERTATION I 15 Credit Hours**

(Repeatable for credit) Doctoral dissertation for which registration in at least two semesters is required, first of which will be semester in which dissertation work is begun and continuing until the completion of 30 hours.

**Prerequisite:** Doctoral standing; and special approval.

**Schedule Type:** Dissertation

**Contact Hours:** 15 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**SPA 84299 DISSERTATION II 15 Credit Hours**

(Repeatable for credit) Continuing registration required of doctoral students who have completed the initial 30 hours of dissertation and continuing until all degree requirements are met.

**Prerequisite:** SPA 84199; and doctoral standing; and special approval.

**Schedule Type:** Dissertation

**Contact Hours:** 15 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

## Sport, Exercise and Performance Psychology (SEPP)

**SEPP 20026 PSYCHOLOGICAL FOUNDATIONS OF SPORT AND EXERCISE 3 Credit Hours**

Psychological Foundations of Sport and Exercise is an overview of foundational concepts and principles essential to understanding the psychological aspects of sport and exercise. Emphasis is given to psychologically based frameworks and their application to sport; in particular, exercise behavior, performance enhancement, mental skills, health and well-being. Coursework reflects an application of sport and exercise psychology concepts to practitioners in sport-related professions such as coaching, athletic training, sport management, physical education or fitness instruction, among others.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SEPP 40020 HIGH PERFORMANCE ATHLETES IN SPORT 3 Credit Hours**

(Slashed with SPAD 50020) This course provides an understanding of various aspects of training, coaching, and best practices in working with athletes in a high-performance environment along with an emphasis on the social-psychological factors related to the successful performance of elite level athletes and teams.

**Prerequisite:** Sophomore standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SEPP 45007 PRINCIPLES AND APPLICATION OF SPORT PSYCHOLOGY 3 Credit Hours**

(Cross-listed with SPAD 55007) This course encompasses the most current developments in the field of psychology with a strong foundation of the principles of human behavior in the sport and movement sciences. It incorporates sound practical theory with a focus on the application of that knowledge to be readily used by students in a range of sport and movement science careers; such as athletic training, coaching, sport management, consulting, physical education teachers and related areas with the goal to improve the sport performance and experience for all.

**Prerequisite:** SEPP 20026; and junior or senior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SEPP 45300 MOTIVATION IN SPORT, PERFORMANCE, AND MOVEMENT SETTINGS 3 Credit Hours**

(Cross-listed with SPAD 55300) This course provides an in-depth and wide-ranging look at motivational theories and its application to sport, performance and physical activity. It combines the many theoretical concepts of the diverse frameworks and principles with a survey of motivational interventions performed in the sport domain. Students will leave the class with a rigorous and comprehensive knowledge of constructs, cutting-edge research, effective interventions and future outlook of motivation in sport.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

## Sports Administration (SPAD)

**SPAD 15000 INTRODUCTION TO SPORT ADMINISTRATION 3 Credit Hours**

This course is designed to introduce students to the field of sport administration. Students will be made aware of the career options available to them in the sport management profession. All course materials, assignments and class discussions will emphasize both the understanding and application of key concepts across various aspects of the sport industry. Students will also be introduced to the sport administration major curriculum and requirements. Recommend first course in the sport administration program sequences.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPAD 15015 ORIENTATION TO PROFESSIONAL GOLF MANAGEMENT 1 Credit Hour**

An overview of opportunities and responsibilities in the golf profession. Emphasis on concepts, techniques and practices of teaching golf skills; understanding the PGA Constitution, rules of golf, tournament golf operations and golf car fleet management.

**Prerequisite:** Special approval.

**Schedule Type:** Lecture

**Contact Hours:** 1 lecture

**Grade Mode:** Standard Letter



**SPAD 25000 SPORT IN SOCIETY (DIVD) 3 Credit Hours**

Analysis of how sport relates to the social relations and cultural values of United States society. The course is framed by a critical evaluative perspective, examining how social class, ethnicity, race and gender relations contour sport practices.

**Prerequisite:** Sophomore standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Diversity Domestic

**SPAD 25092 PRACTICUM I IN SPORT ADMINISTRATION (ELR) 1-3 Credit Hours**

(Repeatable for credit) A 105-hour (per credit) field experience in a sport management setting.

**Prerequisite:** Special approval from instructor.

**Schedule Type:** Practical Experience

**Contact Hours:** 7-21 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**Attributes:** Experiential Learning Requirement

**SPAD 25192 PRACTICUM IN PROFESSIONAL GOLF MANAGEMENT I (ELR) 1-3 Credit Hours**

(Repeatable for a maximum of 3 credit hours) A cumulative 105-hour (per credit) on-campus seminar and field experience in a professional golf management setting.

**Prerequisite:** SPAD 15015; and special approval.

**Schedule Type:** Practical Experience

**Contact Hours:** 7-21 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**Attributes:** Experiential Learning Requirement

**SPAD 35021 GOVERNANCE IN SPORT 3 Credit Hours**

Issues of governance in amateur and professional sports.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPAD 35025 FACILITY MANAGEMENT 3 Credit Hours**

Overview of planning, staffing, marketing and managing sport facilities and complexes. The primary emphasis in this course is on management, personnel and operations issues.

**Prerequisite:** Junior; or senior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPAD 35065 HISTORY AND PHILOSOPHY OF SPORT AND PHYSICAL ACTIVITY (WIC) 3 Credit Hours**

Historical and philosophical foundations of sport and physical education; a study of factors influencing pedagogical, curricular and evaluation decisions in sport and physical education programs today.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Writing Intensive Course

**SPAD 35092 PRACTICUM II IN SPORT ADMINISTRATION (ELR) 1-3 Credit Hours**

(Repeatable for credit) A 105-hour (per credit) field experience in a sport management setting.

**Prerequisite:** SPAD 25092; and special approval from instructor.

**Schedule Type:** Practical Experience

**Contact Hours:** 7-21 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**Attributes:** Experiential Learning Requirement

**SPAD 35192 PRACTICUM IN PROFESSIONAL GOLF MANAGEMENT II (ELR) 1-3 Credit Hours**

(Repeatable for a maximum of 3 credit hours) A cumulative 105-hour (per credit) on-campus seminar and field experience in a professional golf management setting.

**Prerequisite:** SPAD 15015 and SPAD 25192; and special approval.

**Schedule Type:** Practical Experience

**Contact Hours:** 7-21 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**Attributes:** Experiential Learning Requirement

**SPAD 45015 GOLF MANAGEMENT II 2 Credit Hours**

An in-depth study of the business of golf. Topics include maintaining a high performance work environment and motivating techniques for staff, delegating assignments, managing performance problems, merchandise assortment plans, vendor relations, inventory management and merchandise display and promotion.

**Prerequisite:** SPAD 15015.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 1 lecture, 1 lab

**Grade Mode:** Standard Letter

**SPAD 45021 ORGANIZATION AND ADMINISTRATION OF ATHLETICS 3 Credit Hours**

An understanding of theories necessary to run an efficient athletic department at all levels, including budgeting, leadership and administrative theory, organizational structure, personnel, legal issues and facilities.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPAD 45022 EVENT PLANNING AND PRODUCTION 3 Credit Hours**

(Slashed with SPAD 55022) Students learn the proper planning process that all sport events undergo. Students apply these concepts in actual events that they develop and hold.

**Prerequisite:** MKTG 25010; and junior or senior standing.

**Schedule Type:** Laboratory, Lecture, Combined Lecture and Lab

**Contact Hours:** 2 lecture, 2 lab

**Grade Mode:** Standard Letter

**SPAD 45023 SPORT MARKETING 3 Credit Hours**

The course, which is designed around market planning, examines how to formulate market ideas, incorporate market research, select segmentation, targeting and positioning strategies, implement sales and promotion strategies and assess control procedures within the sport and entertainment industry.

**Prerequisite:** MKTG 25010.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPAD 45024 SPORT IN GLOBAL PERSPECTIVE 3 Credit Hours**

(Slashed with SPAD 55024) Students critically analyze how sport relates to general features of globalization and provide insight into the connection between global and local politics (including ethnic, religious, gender, environmental and sociospatial politics). The underlying assumption is that sport is part of a growing network of global inter-dependencies that bind human beings together.

**Prerequisite:** Senior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPAD 45026 SPORT AND THE MEDIA 3 Credit Hours**

(Slashed with SPAD 55026) Course offers an introduction to current scholarship and issues concerning sport and the media, including critical analysis of media representations with attention to gender, race, sexuality and disability; an examination of the structure of sports journalism and production; and an analysis of the role of mediated sport in culture more generally. The roles of institutions, producers, texts and audiences and their relationships to each other are examined.

**Prerequisite:** Junior or senior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPAD 45027 PUBLIC RELATIONS AND PROMOTION IN SPORT 3 Credit Hours**

Issues in public relations and promotion of sport such as advertising, crisis management, sales promotion and atmospherics.

**Prerequisite:** MKTG 25010.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPAD 45029 HISTORY AND CURRENT ISSUES IN COLLEGIATE ATHLETICS 3 Credit Hours**

(Slashed with SPAD 55029) Examination of the historical development of athletics within American institutions of higher learning, with an emphasis upon concepts and ideals that underlie the developments and the major problems affecting contemporary intercollegiate athletics.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPAD 45030 SPORT ENTERPRISE (WIC) 3 Credit Hours**

This is a capstone course for sport administration majors. The course which is designed around business planning for sport, examines how to formulate business ideas, select a legal form of organization, locate financing sources, assess the market, develop a human resource management system and establish budget control.

**Prerequisite:** Senior standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Writing Intensive Course

**SPAD 45031 SPORT TOURISM 3 Credit Hours**

(Cross-listed with RPTM 45031) (Slashed with SPAD 55031) Course incorporates both theoretical learning of travel for sports as a global phenomenon and application of such knowledge in hosting a sporting event with travel as the focus. The experiential, cultural and economic aspects of sport tourism are examined. Students demonstrate their ability to prepare a sport tourism plan upon the completion of the course.

**Prerequisite:** Junior or senior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPAD 45032 SALES MANAGEMENT IN SPORT AND ENTERTAINMENT 3 Credit Hours**

(Slashed with SPAD 55032) Students are introduced to the area of sales-force management in sport and entertainment. Historical, theoretical and conceptual frameworks are examined thoroughly, as well as functions, activities and skills of the professional salesperson in the age of information and technology.

**Prerequisite:** Junior or senior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPAD 45033 CHANGE YOUR MIND, GAME AND LIFE 1 Credit Hour**

(Slashed with SPAD 55033) Course focuses students on mental training to enhance sport performance and have personal growth experiences. Course assists students to tap into their inner potential by refocusing their mind, to learn they are responsible for their own life experiences, to learn that the things they want most in their lives are found within themselves and to take responsibility for their upsets.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 1 lecture

**Grade Mode:** Standard Letter

**SPAD 45034 ESPORT MANAGEMENT 3 Credit Hours**

(Slashed with SPAD 55034) Students will learn about the esports industry, its consumer and constituents. Also, students will investigate the steps and components necessary to manage esports teams and esports events.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPAD 45035 SPORTS WAGERING 3 Credit Hours**

(Slashed with SPAD 55035) This course investigates the sports wagering industry. Students will learn about the different forms of wagering, the statutes and cases impacting sports wagering as well as impact on society of increased access to sports wagering.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPAD 45091 SEMINAR FOR INTERNSHIP PREPARATION 1 Credit Hour**

(Repeatable for credit) This course prepares the students for the internship experience in sport administration. Students must successfully complete this course prior to registering for internship.

**Prerequisite:** Minimum 2.500 overall GPA; Senior standing and special approval.

**Schedule Type:** Seminar

**Contact Hours:** 1 other

**Grade Mode:** Standard Letter

**SPAD 45092 INTERNSHIP IN SPORT ADMINISTRATION (ELR) 3-12 Credit Hours**

(Repeatable for credit) Supervised full-time experience providing knowledge of overall agency operation in approved sport management setting. 50 contact hours per credit hour.

**Prerequisite:** SPAD 35092 and SPAD 45091; minimum 2.500 overall GPA; and special approval.

**Schedule Type:** Practical Experience

**Contact Hours:** 10-40 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**Attributes:** Experiential Learning Requirement

**SPAD 45096 INDIVIDUAL INVESTIGATION IN SPORT ADMINISTRATION 1-3 Credit Hours**

(Repeatable for a maximum of 12 credit hours) Individual investigation in sport administration. Faculty approval is required.

**Prerequisite:** Sport administration major; and special approval.

**Schedule Type:** Individual Investigation

**Contact Hours:** 1-3 other

**Grade Mode:** Standard Letter-IP

**SPAD 45192 INTERNSHIP IN PROFESSIONAL GOLF MANAGEMENT (ELR) 2-12 Credit Hours**

(Repeatable for credit) Supervised full-time experience providing knowledge of overall agency operation in approved sport administration, professional golf management setting. 100 contact hours per credit hour with seminar interactive requirements.

**Prerequisite:** SPAD 15015 and SPAD 25192; and special approval.

**Schedule Type:** Practical Experience

**Contact Hours:** 13-80 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**Attributes:** Experiential Learning Requirement

**SPAD 46028 SPORT IN FILM 3 Credit Hours**

(Slashed with SPAD 56028) Critically evaluates the role of sport in film as it relates to a variety of issues in society.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPAD 46080 LEGAL ISSUES IN SPORT AND RECREATION 3 Credit Hours**

(Slashed with SPAD 56080) A discussion of legal issues as they apply to the sport and recreation industries.

**Prerequisite:** Junior or senior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPAD 46095 SPECIAL TOPICS IN SPORT ADMINISTRATION 1-3 Credit Hours**

(Repeatable for credit) Special topics in Sport Administration.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 1-3 lecture

**Grade Mode:** Standard Letter

**SPAD 50020 HIGH PERFORMANCE ATHLETES IN SPORT 3 Credit Hours**

(Slashed with SEPP 40020) This course provides an understanding of various aspects of training, coaching, and best practices in working with athletes in a high-performance environment along with an emphasis on the social-psychological factors related to the successful performance of elite level athletes and teams.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPAD 53093 VARIABLE TITLE WORKSHOP IN SPORT ADMINISTRATION 1-3 Credit Hours**

(Repeatable for credit) Topics vary in sport studies. Maximum 4 credit hours may be applied to degree.

**Prerequisite:** Graduate standing.

**Schedule Type:** Workshop

**Contact Hours:** 1-3 other

**Grade Mode:** Satisfactory/Unsatisfactory

**SPAD 55007 PRINCIPLES AND APPLICATION OF SPORT PSYCHOLOGY 3 Credit Hours**

(Cross-listed with SEPP 45007) This course encompasses the most current developments in the field of psychology with a strong foundation of the principles of human behavior in the sport and movement sciences. It incorporates sound practical theory with a focus on the application of that knowledge to be readily used by students in a range of sport and movement science careers; such as athletic training, coaching, sport management, consulting, physical education teachers and related areas with the goal to improve the sport performance and experience for all.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPAD 55022 EVENT PLANNING AND PRODUCTION 3 Credit Hours**

(Slashed with SPAD 45022) Students learn the proper planning process that all sport events undergo. Students apply these concepts in actual events that they develop and hold.

**Prerequisite:** Graduate standing.

**Schedule Type:** Laboratory, Lecture, Combined Lecture and Lab

**Contact Hours:** 2 lecture, 2 lab

**Grade Mode:** Standard Letter

**SPAD 55024 SPORT IN GLOBAL PERSPECTIVE 3 Credit Hours**

(Slashed with SPAD 45024) Students critically analyze how sport relates to general features of globalization and provide insight into the connection between global and local politics (including ethnic, religious, gender, environmental and sociospatial politics). The underlying assumption is that sport is part of a growing network of global inter-dependencies that bind human beings together.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPAD 55026 SPORT AND THE MEDIA 3 Credit Hours**

(Slashed with SPAD 45026) Course offers an introduction to current scholarship and issues concerning sport and the media, including critical analysis of media representations with attention to gender, race, sexuality and disability; an examination of the structure of sports journalism and production; and an analysis of the role of mediated sport in culture more generally. The roles of institutions, producers, texts and audiences and their relationships to each other are examined.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPAD 55029 HISTORY AND CURRENT ISSUES IN COLLEGIATE ATHLETICS 3 Credit Hours**

(Slashed with SPAD 45029) Examination of the historical development of athletics within American institutions of higher learning, with an emphasis upon concepts and ideals that underlie the developments and the major problems affecting contemporary intercollegiate athletics.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPAD 55031 SPORT TOURISM 3 Credit Hours**

(Cross-listed with RPTM 45031) (Slashed with SPAD 45031) Course incorporates both theoretical learning of travel for sports as a global phenomenon and application of such knowledge in hosting a sporting event with travel as the focus. The experiential, cultural and economic aspects of sport tourism are examined. Students demonstrate their ability to prepare a sport tourism plan upon the completion of the course.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPAD 55032 SALES MANAGEMENT IN SPORT AND ENTERTAINMENT 3 Credit Hours**

(Slashed with SPAD 45032) Students are introduced to the area of sales-force management in sport and entertainment. Historical, theoretical and conceptual frameworks are examined thoroughly, as well as functions, activities and skills of the professional salesperson in the age of information and technology.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPAD 55033 CHANGE YOUR MIND, GAME AND LIFE 1 Credit Hour**

(Slashed with SPAD 45033) Course focuses students on mental training to enhance sport performance and have personal growth experiences. Course assists students to tap into their inner potential by refocusing their mind, to learn they are responsible for their own life experiences, to learn that the things they want most in their lives are found within themselves and to take responsibility for their upsets.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 1 lecture

**Grade Mode:** Standard Letter

**SPAD 55034 ESPORT MANAGEMENT 3 Credit Hours**

(Slashed with SPAD 45034) Students will learn about the esports industry, its consumer and constituents. Also, students will investigate the steps and components necessary to manage esports teams and esports events.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPAD 55035 SPORTS WAGERING 3 Credit Hours**

(Slashed with SPAD 45035) This course investigates the sports wagering industry. Students will learn about the different forms of wagering, the statutes and cases impacting sports wagering as well as impact on society of increased access to sports wagering. Prerequisite: Graduate Standing

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture, 0 lab, 0 other

**Grade Mode:** Standard Letter

**SPAD 55300 MOTIVATION IN SPORT, PERFORMANCE, AND MOVEMENT SETTINGS 3 Credit Hours**

(Slashed with SEPP 45300) This course provides an in-depth and wide-ranging look at motivational theories and its application to sport, performance and physical activity. It combines the many theoretical concepts of the diverse frameworks and principles with a survey of motivational interventions performed in the sport domain. Students will leave the class with a rigorous and comprehensive knowledge of constructs, cutting-edge research, effective interventions and future outlook of motivation in sport.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPAD 56028 SPORT IN FILM 3 Credit Hours**

(Slashed with SPAD 46028) Critically evaluates the role of sport in film as it relates to a variety of issues in society.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPAD 56030 DYNAMICS OF LEISURE BEHAVIOR 3 Credit Hours**

(Cross-listed with RPTM 46030) Analysis of leisure behavior through examination of social-psychological theories and research.

**Prerequisite:** RPTM 36040 and RPTM 36075; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPAD 56080 LEGAL ISSUES IN SPORT AND RECREATION 3 Credit Hours**

(Slashed with SPAD 46080) A discussion of legal issues as they apply to the sport and recreation industries.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPAD 63018 ETHICS IN SPORT 3 Credit Hours**

(Slashed with SPAD 73018) Examination of selected situations in sport from an ethical reasoning perspective. Students undertake a problem-oriented case study approach that is based upon contemporary moral issues and moral theory.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPAD 63091 RESEARCH SEMINAR 1 Credit Hour**

(Slashed with SPAD 73091) Presentation and discussion of research by faculty and students. Maximum 2 credit hours may be applied toward degree requirements.

**Prerequisite:** Graduate standing.

**Schedule Type:** Seminar

**Contact Hours:** 1 other

**Grade Mode:** Satisfactory/Unsatisfactory

**SPAD 63096 INDIVIDUAL INVESTIGATION IN SPORT ADMINISTRATION 1-3 Credit Hours**

(Repeatable for maximum 6 credit hours) Independent study completed under the supervision of a faculty member. Written approval of supervising faculty member and school director required prior to registration.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Individual Investigation

**Contact Hours:** 1-3 other

**Grade Mode:** Standard Letter-IP

**SPAD 63098 RESEARCH 1-6 Credit Hours**

(Repeatable for credit) Research carried out by the student under the supervision of a faculty member.

**Prerequisite:** Graduate standing.

**Schedule Type:** Research

**Contact Hours:** 3-18 other

**Grade Mode:** Standard Letter-IP

**SPAD 63195 SPECIAL TOPICS IN SPORT ADMINISTRATION 1-3 Credit Hours**

(Repeatable for credit) Selected and varied topics of relevance in sport administration.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 1-3 lecture

**Grade Mode:** Standard Letter

**SPAD 63199 THESIS I 2-6 Credit Hours**

(Repeatable for credit) Highly-individualized investigative study resulting in developing and writing a scholarly, comprehensive paper. Thesis students must register for a total of 6 credit hours, 2 to 6 credit hours in a semester distributed over several semesters if desired.

**Prerequisite:** Graduate standing.

**Schedule Type:** Masters Thesis

**Contact Hours:** 6-18 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**SPAD 63299 THESIS II 2 Credit Hours**

Highly-individualized investigative study resulting in developing and writing a scholarly, comprehensive paper. Thesis students must continue registration each semester until all degree requirements are met.

**Prerequisite:** SPAD 63199; and graduate standing.

**Schedule Type:** Masters Thesis

**Contact Hours:** 6 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**SPAD 65006 CONTEMPORARY ISSUES IN SPORT MANAGEMENT 3 Credit Hours**

(Slashed with SPAD 75006) A comprehensive examination of current topics impacting administrations of professional and amateur sport programs from the local to international level.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPAD 65008 SOCIOLOGY OF SPORT AND PHYSICAL ACTIVITY 3 Credit Hours**

(Slashed with SPAD 75008) Sociological analysis of sport from a theoretical and empirical perspective.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPAD 65021 ORGANIZATION AND MANAGEMENT OF SPORTS PROGRAMS 3 Credit Hours**

A study of the pragmatic understanding necessary in the organization and management of a sports program at the high school, college or professional level.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPAD 65031 SOCIAL PSYCHOLOGY OF SPORT 3 Credit Hours**

(Slashed with SPAD 75031) Psychological, social and developmental factors of participation and behavior in sport exercise and recreational activities. Theoretical and applied perspectives addressed.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPAD 65033 SPORT LAW 3 Credit Hours**

Course provides students with a basic understanding of tort, contract and constitutional law in relation to sport.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPAD 65034 CONTEMPORARY SPORT LAW 3 Credit Hours**

(Slashed with SPAD 75034) Legal principles of antitrust law, injunctions, labor law and agency in sport, with a focus on professional sports.

**Prerequisite:** SPAD 65033; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPAD 65036 SPORT IN HIGHER EDUCATION 3 Credit Hours**

Identification of contemporary problems and issues in collegiate sport, their history and the role of sport in colleges and universities now and in the future.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter



**SPAD 65037 NATIONAL COLLEGIATE ATHLETIC ASSOCIATION COMPLIANCE ADMINISTRATION 3 Credit Hours**

This course introduces students to basic NCAA compliance principles and the NCAA rules that affect the administration of a college athletic department. This course offers an understanding of the structure and function of a Division I compliance operation and explores compliance at the Divisions II & III level. The governing principles of institutional control and ethical conduct will be explored from a compliance perspective.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPAD 65038 SPORT PROMOTION AND FUNDRAISING 3 Credit Hours**

(Slashed with SPAD 75038) Analysis of contemporary sports promotions strategies, as well as promotion of fundraising tactics.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPAD 65039 FINANCIAL ASPECTS OF SPORT 3 Credit Hours**

Review of basic accounting, sources and uses of funds, capital budgeting, leasing and investments as they apply in a sports context. Students are introduced to financial software used in the sport industry.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPAD 65040 SPORT ECONOMICS 3 Credit Hours**

Course provides students with key economic theories and principles as applied to the sport industry.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPAD 65042 LEADERSHIP OF SPORT 3 Credit Hours**

Study of theoretical and applied constructs foundational to the leadership behavior applied to sport.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPAD 65045 SPORT MARKETING 3 Credit Hours**

Students develops an understanding of strategic marketing concepts and principles as they apply to the context of sport and entertainment. Students examine a variety of topics related to the marketing mix, consumer/fan behavior and research methodology. They also explore sport, entertainment and business organization relationships.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPAD 65046 FACILITY MANAGEMENT AND OPERATIONS 3 Credit Hours**

Analysis of management competencies necessary to operate sport facilities. Conceptual and technical aspects of planning and design are introduced.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPAD 65048 INTRAMURAL AND CLUB SPORT ADMINISTRATION 3 Credit Hours**

Students focus on developing an understanding of how these programs work and what role they play in various recreational environments. Course emphasizes decision-making techniques and communication skills leading to effective planning, organizing and managing a recreational sports-related service or product.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPAD 65092 INTERNSHIP IN SPORT ADMINISTRATION 2-4 Credit Hours**

(Repeatable for credit) Field experience involving supervised contact with sport administrators. Students work as an understudy with these administrators in all phases of their positions.

**Prerequisite:** Graduate standing and special approval.

**Schedule Type:** Practical Experience

**Contact Hours:** 13-27 other

**Grade Mode:** Standard Letter-IP

**SPAD 73018 ETHICS IN SPORT 3 Credit Hours**

(Slashed with SPAD 63018) Examination of selected situations in sport from an ethical reasoning perspective. Students undertake a problem-oriented case study approach that is based upon contemporary moral issues and moral theory.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPAD 73091 RESEARCH SEMINAR 1 Credit Hour**

(Slashed with SPAD 63091) Presentation and discussion of research by faculty and students. Maximum 2 credit hours may be applied toward degree requirements.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Seminar

**Contact Hours:** 1 other

**Grade Mode:** Satisfactory/Unsatisfactory

**SPAD 75006 CONTEMPORARY ISSUES IN SPORT MANAGEMENT 3 Credit Hours**

(Slashed with SPAD 65006) A comprehensive examination of current topics impacting administrations of professional and amateur sport programs from the local to international level.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPAD 75008 SOCIOLOGY OF SPORT AND PHYSICAL ACTIVITY 3****Credit Hours**

(Slashed with SPAD 65008) Sociological analysis of sport from a theoretical and empirical perspective.

**Prerequisite:** SPAD 75006; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPAD 75031 SOCIAL PSYCHOLOGY OF SPORT 3 Credit Hours**

(Slashed with SPAD 65031) Psychological, social and developmental factors of participation and behavior in sport exercise and recreational activities. Theoretical and applied perspectives addressed.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPAD 75034 CONTEMPORARY SPORT LAW 3 Credit Hours**

(Slashed with SPAD 65034) Legal principles of antitrust law, injunctions, labor law and agency in sport, with a focus on professional sports.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPAD 75038 SPORT PROMOTION AND FUNDRAISING 3 Credit Hours**

(Slashed with SPAD 65038) Analysis of contemporary sports promotions strategies, as well as promotion of fundraising tactics.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

## Summer Visual Communication Design (SVCD)

**SVCD 45011 SUMMER DESIGN STUDIO 1-4 Credit Hours**

(Repeatable for a maximum of 16 credit hours) Summer course offerings investigating specialized areas of graphic design, illustration or photography taught primarily by guest faculty.

**Prerequisite:** None.

**Schedule Type:** Lecture, Studio

**Contact Hours:** 7.5-30 lecture, 12.5-45 other

**Grade Mode:** Standard Letter-S/U

**SVCD 55011 SUMMER DESIGN STUDIO 1-4 Credit Hours**

(Repeatable for a maximum of 16 credit hours). Summer course offerings investigating specialized areas of graphic design, illustration or photography taught primarily by guest faculty.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture, Studio

**Contact Hours:** 7.5-30 lecture, 12.5-45 other

**Grade Mode:** Standard Letter-S/U-IP

**SVCD 65011 SUMMER DESIGN STUDIO 1-4 Credit Hours**

(Repeatable for a maximum of 16 credit hours) Summer course offerings investigating specialized areas of graphic design, illustration or photography taught primarily by guest faculty.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture, Studio

**Contact Hours:** 7.5-30 lecture, 12.5-45 other

**Grade Mode:** Standard Letter-S/U-IP

## Technical and Applied Studies (TAS)

**TAS 37900 TECHNICAL AND APPLIED STUDIES CORNERSTONE 3****Credit Hours**

Cornerstone course instructs students about how the work role in industrial and information societies has evolved to its current organization. Students personalize the information by reflecting on the role of work in their own lives by reviewing theory and application of their own career management; examine the stages of career development; job stress; entrepreneurial careers; and organization.

**Prerequisite:** Technical and applied studies, information technology or engineering technology major.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**TAS 47999 TECHNICAL AND APPLIED STUDIES CAPSTONE (ELR) 3****Credit Hours**

Designed to help students articulate and integrate the competencies that are part of their bachelor's degree program. In part, an electronic portfolio is used to help describe familiarity with the competencies.

**Prerequisite:** Technical and Applied Studies major, Information Technology major, Insurance Studies major or Engineering Technology major.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Experiential Learning Requirement

## Theatre (THEA)

**THEA 11000 THE ART OF THE THEATRE (DIVG) (KFA) 3 Credit Hours**

Using the life-centered nature of theatre as a medium of analysis, this course is designed to develop critically engaged audience members who are aware of the impact, significance and historical relevance of the interconnection between culture and theatre performance.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Diversity Global, Kent Core Fine Arts, Transfer Module Fine Arts

**THEA 11100 MAKING THEATRE: CULTURE AND PRACTICE 2 Credit Hours**

Overview of theatre practices through creative experiential learning. The focus and course content combines practical and cultural experiences and culminates with a performance event that provides a solid foundation in the artistic process and an identity for the first-year theatre student.

**Prerequisite:** Special approval.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**THEA 11303 THE ART OF ACTING 3 Credit Hours**

General introduction to acting: the actor's instrument, sensory awareness, personal and group response, objectives and tactics. Basic scene work.

**Prerequisite:** Special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** TAG Arts and Humanities

**THEA 11521 GRAPHICS FOR THE THEATRE 3 Credit Hours**

An introduction to computer software currently used by professional theatre designers and technicians. These applications include image processing software, computer-aided design software and 3D visualization software.

**Prerequisite:** Special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**THEA 11722 FUNDAMENTALS OF PRODUCTION I: SCENERY, STAGECRAFT AND SOUND 2 Credit Hours**

An introduction to professional theatre production principles and practices in the areas of scenery, stagecraft and sound.

**Prerequisite:** Special approval.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**Attributes:** CTAG Performing Arts, TAG Arts and Humanities

**THEA 11723 FUNDAMENTALS OF PRODUCTION LABORATORY I: SCENERY 1 Credit Hour**

Practice in theatre production techniques in the area of scenery.

**Prerequisite:** Special approval.

**Corequisite:** THEA 11722.

**Schedule Type:** Laboratory

**Contact Hours:** 2 lab

**Grade Mode:** Standard Letter

**Attributes:** TAG Arts and Humanities

**THEA 11724 FUNDAMENTALS OF PRODUCTION LABORATORY II: PROPS AND SCENIC ART 1 Credit Hour**

Practice in theatre production techniques in the area of properties and scenic art.

**Prerequisite:** Special approval.

**Corequisite:** THEA 11722.

**Schedule Type:** Laboratory

**Contact Hours:** 2 lab

**Grade Mode:** Standard Letter

**Attributes:** CTAG Performing Arts, TAG Arts and Humanities

**THEA 11732 FUNDAMENTALS OF PRODUCTION II: COSTUMES, LIGHTING AND PROJECTIONS 2 Credit Hours**

An introduction to professional theatre production principles and practices in the areas of costumes, lighting and projections.

**Prerequisite:** Special approval.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**Attributes:** CTAG Performing Arts

**THEA 11733 FUNDAMENTALS OF PRODUCTION LABORATORY III: COSTUMES 1 Credit Hour**

Practice in theatre production techniques in the area of costumes.

**Prerequisite:** Special approval.

**Corequisite:** THEA 11732.

**Schedule Type:** Laboratory

**Contact Hours:** 2 lab

**Grade Mode:** Standard Letter

**THEA 11734 FUNDAMENTALS OF PRODUCTION LABORATORY IV: LIGHTING, SOUND AND PROJECTIONS 1 Credit Hour**

Practice in theatre production techniques in the area of lighting, sound and projections.

**Prerequisite:** Special approval.

**Corequisite:** THEA 11732.

**Schedule Type:** Laboratory

**Contact Hours:** 2 lab

**Grade Mode:** Standard Letter

**THEA 13092 BACHELOR OF FINE ARTS FRESHMAN PRACTICUM: DESIGN AND TECHNOLOGY (ELR) 1 Credit Hour**

(Repeatable for credit) Practical experience at the freshman level in theatre and dance production.

**Prerequisite:** Theatre design, technology and production major; and special approval.

**Schedule Type:** Practical Experience

**Contact Hours:** 3 other

**Grade Mode:** Satisfactory/Unsatisfactory

**Attributes:** Experiential Learning Requirement

**THEA 20202 MUSIC THEORY FOR MUSICAL THEATRE I 3 Credit Hours**

Study the basic principles and applications of music theory as it may apply to the work of a professional singing actor. It will begin by gaining a thorough understanding of the rudiments of music and progress to studying the objective and subjective aspects of music and its structure, principally pertaining to the world of musical theatre. The course is intended to establish fundamental concepts to be further explored in THEA 20202.

**Prerequisite:** Special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**THEA 20203 MUSIC THEORY FOR MUSICAL THEATRE II 3 Credit Hours**

Study the basic principles and applications of music theory as it may apply to the work of a professional singing actor. Course focuses on the interpretation of music for musical theater and serves as a continuation of the material presented in THEA 20202.

**Prerequisite:** Special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**THEA 21016 MAKEUP FOR STAGE AND SCREEN 3 Credit Hours**

Study of stage, TV and photographic makeup techniques and materials. Four lecture demonstration laboratory hours per week; special projects as assigned.

**Prerequisite:** Special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**THEA 21095 SPECIAL TOPICS IN THEATRE 1-3 Credit Hours**

(Repeatable for credit) Offered irregularly when unusual resources permit a topic different from existing courses. Topic will be announced when scheduled.

**Prerequisite:** Special approval.

**Schedule Type:** Lecture

**Contact Hours:** 1-3 lecture

**Grade Mode:** Standard Letter

**THEA 21111 SCRIPT ANALYSIS 3 Credit Hours**

Principles, theories and techniques of play script analysis for theatrical production.

**Prerequisite:** THEA 11100; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** TAG Arts and Humanities

**THEA 21201 INTRODUCTION TO AMERICAN MUSICAL THEATRE 3 Credit Hours**

The evolution of the American musical from comic opera, European operetta and African American jazz to today's commercial Broadway stage. Students engage in the traditions, identity, and socio-economic development of the quintessential American art form: Musical Theatre.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**THEA 21303 ACTING PROCESS 3 Credit Hours**

Fundamentals of naturalistic acting and interaction; development of spontaneity, believability and a sense of truth; game playing and basic stage technique.

**Prerequisite:** Special approval.

**Schedule Type:** Studio

**Contact Hours:** 2 lecture, 1 lab

**Grade Mode:** Standard Letter

**THEA 21306 MUSICAL THEATRE PERFORMANCE I 3 Credit Hours**

(Repeatable for a maximum of 12 credit hours) Performance-oriented class that will focus on techniques and styles of performance in musical theatre and cabaret from Gilbert and Sullivan to present.

**Prerequisite:** Musical theatre major.

**Schedule Type:** Studio

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**THEA 21501 SOPHOMORE PORTFOLIO REVIEW 1 Credit Hour**

Preparation and review of a portfolio of work, judged by the design technology faculty at the beginning of the spring semester. Student must pass to remain in the BFA design technology program.

**Prerequisite:** Special approval.

**Schedule Type:** Studio

**Contact Hours:** 1 other

**Grade Mode:** Satisfactory/Unsatisfactory

**THEA 21521 THEATRICAL DRAFTING 3 Credit Hours**

Drafting techniques for all design and technology students. Includes plans, elevations, sections, detailed drawings light plots.

**Prerequisite:** THEA 11521 and THEA 11722 and THEA 11723; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**THEA 21522 LIGHTING DESIGN 3 Credit Hours**

Exploration of the tools of the lighting designer applied to design choices; frequent paper design projects.

**Prerequisite:** THEA 11732 and THEA 11734; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**THEA 21523 COSTUME TECHNOLOGY 3 Credit Hours**

Study of the basics of costume construction, pattern drafting, tailoring and millinery for costumes in the performing arts. A variety of historical periods and styles are covered. Students create portfolio-quality projects.

**Prerequisite:** THEA 11732; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**THEA 21524 COSTUME DESIGN 3 Credit Hours**

Theory and practice of costume design. Emphasis on play text analysis, formation of concepts, use of design elements and principles, period styles.

**Prerequisite:** THEA 11732; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**THEA 21526 BASIC COSTUME CONSTRUCTION 3 Credit Hours**

Course is designed to provide the student with a more advanced set of sewing skills in preparation for stitcher positions in the entertainment field. Prepares students for more advanced costume technology courses.

**Prerequisite:** THEA 11732; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**THEA 21528 SOUND AND PROJECTION DESIGN AND TECHNOLOGY 3 Credit Hours**

Studies in sound design and projection design with emphasis on practical application and specific processes related to designing for theatre and dance.

**Prerequisite:** THEA 11521; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**THEA 21621 SCENE PAINTING 3 Credit Hours**

Techniques of scene painting; emphasis on a variety of techniques through practical projects.

**Prerequisite:** THEA 11722 and THEA 11724; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**THEA 21622 SCENE DESIGN 3 Credit Hours**

Theory and practice of scene design; emphasis on script analysis, formation of concepts, use of design elements and principles in period styles and genres.

**Prerequisite:** THEA 11722 and THEA 11723; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**THEA 21700 MOVEMENT I 3 Credit Hours**

Beginning exploration of technical skills emphasizing the physical components of expressive action through integration of breath, text and body conditioning.

**Prerequisite:** Special approval.

**Schedule Type:** Studio

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**THEA 21736 STAGE MANAGEMENT 3 Credit Hours**

Introduction to the skills and techniques necessary to stage manage a theatrical production. Focus on the production process, preparing for and running rehearsals and performances, paperwork and communication skills.

**Prerequisite:** Special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**THEA 21800 VOICE I 3 Credit Hours**

Breathing, physical alignment, sound and text explorations designed to develop relaxed, free and fully connected voice production for the actor. Proper use and care of the voice.

**Prerequisite:** Special approval.

**Schedule Type:** Studio

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**THEA 22092 PRACTICUM: DESIGN AND TECHNOLOGY (ELR) 1-3 Credit Hours**

(Repeatable for credit) Practical experience in theatre production under faculty supervision. Available for lower-division students only. Required of all theatre majors.

**Prerequisite:** Special approval.

**Schedule Type:** Practical Experience

**Contact Hours:** 1-3 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**Attributes:** Experiential Learning Requirement, TAG Arts and Humanities

**THEA 22192 PRACTICUM I: PERFORMANCE (ELR) 3 Credit Hours**

(Repeatable for credit) Practical experience in theatre performance under faculty supervision. Available for lower-division students only.

**Prerequisite:** Special approval.

**Schedule Type:** Practical Experience

**Contact Hours:** 3 lecture

**Grade Mode:** Satisfactory/Unsatisfactory

**Attributes:** Experiential Learning Requirement, TAG Arts and Humanities

**THEA 22292 PRACTICUM I: THEATRE MANAGEMENT (ELR) 3 Credit Hours**

(Repeatable for a maximum of 12 credit hours) Practical experience in theatre management under faculty supervision.

**Prerequisite:** Freshmen or sophomore only; and special approval.

**Schedule Type:** Practical Experience

**Contact Hours:** 3 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**Attributes:** Experiential Learning Requirement

**THEA 23092 BACHELOR OF FINE ARTS SOPHOMORE PRACTICUM: DESIGN AND TECHNOLOGY (ELR) 1 Credit Hour**

(Repeatable for credit) Practical experience at the sophomore level in theatre and dance production.

**Prerequisite:** Theatre design, technology and production major; and special approval.

**Schedule Type:** Practical Experience

**Contact Hours:** 3 other

**Grade Mode:** Satisfactory/Unsatisfactory

**Attributes:** Experiential Learning Requirement

**THEA 31110 HISTORY OF THEATRE AND DRAMA I 3 Credit Hours**

Theatre history and drama in Europe from antiquity through the renaissance.

**Prerequisite:** THEA 21111; and junior standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**THEA 31111 HISTORY OF THEATRE AND DRAMA II 3 Credit Hours**

Theatre history and drama in Europe and the United States from 1700 to the present.

**Prerequisite:** THEA 21111; and junior standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**THEA 31303 CHARACTER AND SCENE STUDY I 3 Credit Hours**

The development of character in the realistic scene.

**Prerequisite:** THEA 21303; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**THEA 31304 CHARACTER AND SCENE STUDY II 3 Credit Hours**

Further character and scene exploration; spontaneity and creative choice making.

**Prerequisite:** THEA 31303; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**THEA 31401 DIRECTING 3 Credit Hours**

Theoretical and practical work in the process of play direction; the director's mission; play analysis and design collaboration; the rehearsal process.

**Prerequisite:** Special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**THEA 31501 JUNIOR PORTFOLIO REVIEW 1 Credit Hour**

Review of a portfolio of theatre and related work, and a review of the student's academic progress and coursework judged by the design/technology faculty at the beginning of the spring semester. Student must pass to remain in the BFA program.

**Prerequisite:** Theatre design, production and technology major; and junior standing; and special approval.

**Schedule Type:** Studio

**Contact Hours:** 1 other

**Grade Mode:** Satisfactory/Unsatisfactory

**THEA 31526 FLAT PATTERNING FOR THEATRE 3 Credit Hours**

The course is designed to provide the student with a basic set of skills in flat patterning techniques, using the sloper (a basic fitted pattern from which patterns for different styles can be developed) and individualizing patterns to meet the actors costume needs. This class is also preparatory for more advanced costume technology courses.

**Prerequisite:** THEA 21526.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter



**THEA 31701 MOVEMENT II 3 Credit Hours**

Development of movement exploration and improvisation skills which focus on physical relationships in performance and utilize the components of energy, space and time.

**Prerequisite:** THEA 11303 or THEA 21306; and special approval.

**Schedule Type:** Studio

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**THEA 31801 VOICE II 3 Credit Hours**

Continuation of THEA 21800. Explorations involve various texts and incorporation of voice principles at a more detailed level.

**Prerequisite:** THEA 21800; and special approval.

**Schedule Type:** Studio

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**THEA 33092 BACHELOR OF FINE ARTS JUNIOR PRACTICUM: DESIGN AND TECHNOLOGY (ELR) 2 Credit Hours**

(Repeatable for credit) Practical experience at the junior level in theatre and dance production.

**Prerequisite:** Theatre design, technology and production major; and special approval.

**Schedule Type:** Practical Experience

**Contact Hours:** 6 other

**Grade Mode:** Satisfactory/Unsatisfactory

**Attributes:** Experiential Learning Requirement

**THEA 40091 VARIABLE TOPICS SEMINAR: DEVISING THEATRE 3 Credit Hours**

(Slashed with THEA 50091) A devised theatre event is work that has emerged and been generated by a group of people working in collaboration. Devising Theatre explores the processes of creating original performances defined and determined by its makers. Process and product originate from stimuli other than traditional play scripts. Students learn specialist techniques by developing solo and group performance pieces. Alternative modes of making theatre performances are considered.

**Prerequisite:** Special approval.

**Schedule Type:** Seminar

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**THEA 41010 THEATRE AND SOCIAL CHANGE 3 Credit Hours**

(Slashed with THEA 51010) This course interweaves the history, theory, practice and play text development in the field of theatre and social change.

**Prerequisite:** THEA 11000 or THEA 11100.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**THEA 41026 PLAYWRITING (WIC) 3 Credit Hours**

(Repeatable for a total of 6 credit hours)(Slashed with THEA 51026) Principles underlying playwriting for the contemporary theatre; analysis of short play form.

**Prerequisite:** Special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Writing Intensive Course

**THEA 41027 ADVANCED PLAYWRITING 3 Credit Hours**

(Repeatable for a maximum of 6 credit hours)(Slashed with THEA 51026) Application of principles of playwriting to the longer play and to variations from traditional realism; play analysis and composition.

**Prerequisite:** THEA 41026; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**THEA 41095 SPECIAL TOPICS IN THEATRE 1-3 Credit Hours**

(Repeatable for credit)(Slashed with THEA 51026) Course offered irregularly when unusual resources permit a topic different from existing courses. Topic will be announced when scheduled.

**Prerequisite:** Special approval.

**Schedule Type:** Lecture

**Contact Hours:** 1-3 lecture

**Grade Mode:** Standard Letter

**THEA 41096 INDEPENDENT STUDY IN THEATRE 1-3 Credit Hours**

(repeatable for a total of 6 hours) selected research topics in theatre; to be elected only after all coursework in study area completed.

**Prerequisite:** Special approval.

**Schedule Type:** Individual Investigation

**Contact Hours:** 1-3 other

**Grade Mode:** Standard Letter-IP

**THEA 41113 THEATRE IN A MULTICULTURAL AMERICA (DIVD) 3 Credit Hours**

(Slashed with THEA 51113) A study of theatre and drama in the Native American, Hispanic-American, African-American and Asian-American communities in the United States from 1980 to the present.

**Prerequisite:** Special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Diversity Domestic

**THEA 41115 LGBTQ THEATRE (DIVD) 3 Credit Hours**

(Slashed with THEA 51115) Studies of various theatrical representations of Lesbian, Gay, Bisexual, Transgender and Queer people as seen through the frameworks of history, gender theory, identity, politics, psychology, law and justice.

**Prerequisite:** Junior standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Diversity Domestic

**THEA 41130 THEATRE AND DRAMA IN AMERICA 3 Credit Hours**

(Slashed with THEA 51130) The history of theatre and drama in America from their beginnings to the present.

**Prerequisite:** THEA 21111; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**THEA 41140 AMERICAN MUSICAL THEATRE HISTORY (WIC) 3 Credit Hours**

Comprehensively examines the history of American musical theater and incorporates the exploration of musical literature in production and performance.

**Prerequisite:** Theatre major; and junior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Writing Intensive Course

**THEA 41191 VARIABLE CONTENT SEMINAR: THEATRE HISTORY, LITERATURE AND THEORY 3 Credit Hours**

(Repeatable for credit)(Slashed with THEA 51191) Seminar in theatre history and literature providing an in-depth focus on selected topics such as: African-American theatre, women in theatre, politics and theatre, theatre in a multicultural society, costume history on stage and screen.

**Prerequisite:** Special approval.

**Schedule Type:** Seminar

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**THEA 41301 ACTING FOR THE CAMERA I 3 Credit Hours**

(Slashed with THEA 51301) Introduction to the specific techniques used in film acting. The course provides students with the necessary tools to make the transition from stage acting to camera acting.

**Prerequisite:** Special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**THEA 41302 ACTING FOR THE CAMERA II 3 Credit Hours**

(Slashed with THEA 51302) Further development on the specific techniques used in film acting. The course continues to assist students in making the transition from stage acting to camera acting.

**Prerequisite:** Special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**THEA 41304 ACTING II-SCENE STUDY-MODERN AMERICAN REALISM 3 Credit Hours**

(Slashed with THEA 51304) The application of the Stanislavski and Michael Chekhov Techniques to in-depth scene study using the plays of Odets, Miller, Williams, Shanley and others.

**Prerequisite:** None.

**Schedule Type:** Studio

**Contact Hours:** 4 other

**Grade Mode:** Standard Letter

**THEA 41305 PROFESSIONAL ASPECTS: PERFORMANCE 3 Credit Hours**

(Slashed with THEA 51305) A study of the practical demands and requirements of a professional acting career with particular emphasis on audition skills. Also covered: pictures and resumes, making rounds, professional unions, casting directors, agents and managers, the job market and career prospects.

**Prerequisite:** Junior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**THEA 41306 PROFESSIONAL ASPECTS: DESIGN AND TECHNOLOGY 3 Credit Hours**

A study of the practical demands and requirements of a professional career in design and technology, including portfolio development, resumes, unions, job market, financial matters and career prospects. Use of computers as a resource and tool emphasized.

**Prerequisite:** Junior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**THEA 41307 MUSICAL THEATRE PERFORMANCE II 3 Credit Hours**

Repeatable for credit. Advanced work in musical theatre performance techniques for junior- and senior-level students. Course content includes selecting appropriate musical theatre audition material and developing contrasting selections from the musical theatre repertory. Preparation for musical theatre auditions is included.

**Prerequisite:** THEA 21306; and special approval.

**Schedule Type:** Studio

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**THEA 41308 MUSICAL THEATRE AUDITION 2 Credit Hours**

(Repeatable for a maximum of 4 credit hours)(Slashed with THEA 51308) Explore the various genres and styles of American musical theatre songs with specific emphasis on finding practical audition repertoire for each student. Performance and research will be the primary activities in the class.

**Prerequisite:** Special approval.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**THEA 41401 ADVANCED DIRECTING 3 Credit Hours**

(Slashed with THEA 51401) Advanced work in directing for the theatre. Topics include the director as creative/interpretative artist and the director and the actor; students direct individual projects.

**Prerequisite:** THEA 11303 and THEA 31401; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**THEA 41420 THEATRICAL DRAFTING II 3 Credit Hours**

(Slashed with THEA 51420) Advanced 2D and 3D drafting techniques for technical directors and theatre designers. Representation of scenery through drafting using current AutoCAD software.

**Prerequisite:** THEA 21521.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**THEA 41430 ADVANCED CONSTRUCTION THEORY 3 Credit Hours**

(Slashed with THEA 51430) The theory and practice of structural and mechanical design for theatre production. Related issues in resource management for the professional shop, including reliably predicting the performance of untraditional, unusual or unfamiliar structures and use of mathematical models, formulas, and representative diagrams.

**Prerequisite:** THEA 11722 and THEA 41560; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**THEA 41440 SHOP MANAGEMENT 3 Credit Hours**

(Slashed with THEA 51440) Study of resource management, both human and non-human, for professional and academic shops. Topics include scheduling, budgeting, health and safety, interactions with other theatre workers and leadership development.

**Prerequisite:** THEA 11722; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**THEA 41499 MUSICAL THEATRE SHOWCASE (ELR) 2 Credit Hours**

(Repeatable for credit) (Slashed with THEA 51499) Development, promotion, and presentation of a Musical Theatre showcase for industry casting personnel in New York City. Audition required prior to registration for this course.

**Prerequisite:** Senior standing; and special approval.

**Schedule Type:** Senior Project/Honors Thesis

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**Attributes:** Experiential Learning Requirement

**THEA 41501 SENIOR PORTFOLIO REVIEW 1 Credit Hour**

Review of a portfolio of theatre and related work, and a review of the student's academic progress coursework and professional potential judged by the design technology faculty at the end of the fall semester. Student must pass to remain eligible for the bfa design technology degree.

**Prerequisite:** Theatre design, production and technology major; senior standing and; special approval.

**Schedule Type:** Studio

**Contact Hours:** 1 other

**Grade Mode:** Satisfactory/Unsatisfactory

**THEA 41521 ADVANCED LIGHTING TECHNOLOGY I 3 Credit Hours**

(Slashed with THEA 51521) Advanced study of the technologies used in lighting design; conventional and intelligent fixtures, electricity, projection techniques and special effects.

**Prerequisite:** THEA 11732 and THEA 11734; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**THEA 41522 DESIGN STUDIO: LIGHTING 3 Credit Hours**

(Slashed with THEA 51522) Advanced study of lighting design, emphasizing artistic style and concept through a variety of design problems.

**Prerequisite:** THEA 21522; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**THEA 41523 SOUND DESIGN AND TECHNOLOGY I 3 Credit Hours**

(Slashed with THEA 51523) Sound design for the theatre, sound production and sound reinforcement techniques. Introduction to electronic equipment mixing consoles amplifiers speakers.

**Prerequisite:** Special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**THEA 41524 DESIGN STUDIO: COSTUME 3 Credit Hours**

(Slashed with THEA 51524) Advanced study in costume design. Genres styles in the context of performance spaces with an emphasis on research, practical considerations of costume production and communication between designer shop/personnel and designer director.

**Prerequisite:** THEA 21524; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**THEA 41525 PROPS AND CRAFTS 3 Credit Hours**

(Slashed with THEA 51525) Examination of the processes related to the creation and procurement of scenic and costume props.

**Prerequisite:** THEA 11722 and THEA 11732; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**THEA 41526 ADVANCED LIGHTING TECHNOLOGY II 3 Credit Hours**

(Slashed with THEA 51526) Course focuses on the practice of intelligent lighting programming and the technology of intelligent lighting fixtures.

**Prerequisite:** Special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**THEA 41527 SOUND DESIGN AND TECHNOLOGY II 3 Credit Hours**

(Slashed with THEA 51527) Studies in sound design, sound production and reinforcement for live performance. Advanced software applications will be explored.

**Prerequisite:** THEA 41523; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**THEA 41528 THEATRE SOUND REINFORCEMENT 3 Credit Hours**

(Slashed with THEA 51528) Studies in the theories and practice of audio mixing in support of live vocal and musical performance. Topics include wired and wireless microphones and real time digital processing of audio.

**Prerequisite:** THEA 41523; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**THEA 41529 ADVANCED WIG AND MAKEUP TECHNIQUES-STAGE AND SCREEN 3 Credit Hours**

(Slashed with THEA 51529) Advanced study of the process of designing and executing wigs and makeup with an emphasis on standards in the profession. Some prosthetic work required.

**Prerequisite:** Junior standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**THEA 41531 THEATRICAL RIGGING 3 Credit Hours**

(Slashed with THEA 51531) Course is designed to teach students the principles of stage rigging, knot tying and counterweight rigging systems used in theatrical and other live entertainment situations. Students examine the process involved in overhead applications for the theatre industry. Students learn the proper method to design and rig in theatrical environments through the explanation of tools, equipment, hardware and safety practices.

**Prerequisite:** Special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**THEA 41540 DRAPING FOR THE THEATRE I 3 Credit Hours**

(Slashed with THEA 51540) The course is designed to provide an introduction to the basics of draping and building flat patterning techniques from this knowledge as they apply to theatre.

**Prerequisite:** THEA 31526; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**THEA 41541 DRAPING FOR THE THEATRE II 3 Credit Hours**

(Slashed with THEA 51541) Course is designed to build upon skills developed in Draping for the Theatre I. Emphasis is placed on learning to drape over period undergarments such as corsetry, panniers, bustles, etc.

**Prerequisite:** THEA 31526; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**THEA 41560 THEATRE FABRICATION TECHNOLOGY 3 Credit Hours**

(Slashed with THEA 51560) History of technical production practice, materials theory and application in scenic construction technology.

**Prerequisite:** THEA 21521; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**THEA 41562 ADVANCED PROJECTION DESIGN 3 Credit Hours**

(Slashed with THEA 51562) Studies in projection design, digital media, and related technologies. Advanced software applications will be explored.

**Prerequisite:** THEA 11521; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**THEA 41620 HISTORY OF PERIOD STYLES FOR THEATRE DESIGNERS (WIC) 3 Credit Hours**

Students explore the way in which theatre designers approach period style in their own creative work.

**Prerequisite:** Theatre studies major; and junior standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Writing Intensive Course

**THEA 41621 PRESENTATION MEDIA 3 Credit Hours**

(Slashed with THEA 51621) Advanced process techniques in rendering, model building and design presentation for the scenic costume and lighting designer in traditional and new media.

**Prerequisite:** THEA 11722 and THEA 11732 and THEA 21521; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**THEA 41622 DESIGN STUDIO: SCENERY 3 Credit Hours**

(Slashed with THEA 51622) Advanced study in scenic design. Explores genres styles performance spaces, including practical considerations.

**Prerequisite:** THEA 21622; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**THEA 41624 HISTORY OF COSTUME AND TEXTILES FOR THEATRE 3 Credit Hours**

(Slashed with THEA 51624) Overview of the history of period costume and textiles in Western civilization from 1700 to 1970, a span of time commonly regarded as "popular time periods" in the practice and cannon of Western drama and the history of costume. Emphasis is placed on how theatre practitioners recreate the silhouettes of these periods in ways that make sense to a contemporary audience while using textiles available today. Students examine the social and cultural influences of clothing, recognition of historic silhouette and parallels in the artwork, literature, politics, economy and craft movements of each era of study.

**Prerequisite:** Special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**THEA 41702 MOVEMENT AND DANCE FOR ACTORS 3 Credit Hours**

(Repeatable for a maximum of 6 credit hours)(Slashed with THEA 51702)

Designed to acquaint actors with theatre dance techniques and choreographic styles by concentrating on vernacular dances used throughout musical theatre. Course combines basic ballet, jazz and tap terminology.

**Prerequisite:** Special approval.

**Schedule Type:** Studio

**Contact Hours:** 4 other

**Grade Mode:** Standard Letter

**THEA 41703 STAGE COMBAT 3 Credit Hours**

(Repeatable for a maximum of 6 credit hours)(Slashed with THEA 51703)

Introductory course focuses on creating the illusion of violence for the stage and screen. Basic instruction is given in unarmed and armed stage combat. Emphasis is on the development of technique; the process of the work; and the performance, with a focus on safety, accuracy and the fundamental techniques recognized by the Society of American Fight Directors (SAFD). Basic techniques are incorporated into short scenes to provide experience performing fights in production.

**Prerequisite:** Special approval.

**Schedule Type:** Laboratory, Lecture

**Contact Hours:** 2 lecture, 2 lab

**Grade Mode:** Standard Letter

**THEA 41726 THEATRE MANAGEMENT 3 Credit Hours**

Principles and practices of managing theatrical-producing organizations. Problems of finance, personnel, policy, program building and public relations. Production participation as assigned.

**Prerequisite:** Junior standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**THEA 41734 COSTUME PRODUCTION MANAGEMENT 3 Credit Hours**

(Slashed with THEA 51734) The course is designed to provide an introduction to managerial processes as they apply to costume production; the role of a shop manager, the roles of a wardrobe supervisor and wardrobe crew, and the running of a smooth technical rehearsal and production.

**Prerequisite:** Special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**THEA 41736 PRODUCTION AND STAGE MANAGEMENT 3 Credit Hours**

(Slashed with THEA 51736) Advanced investigation of the methodology used in stage managing professional theatrical productions and production management processes. Focus on production processes for various theatre, dance, opera and entertainment genres.

**Prerequisite:** Special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**THEA 41802 ENSEMBLE SINGING FOR MUSICAL THEATRE 1 Credit Hour**

(Repeatable for a maximum of 6 credit hours)(Slashed with THEA 51802) The study and performance of diverse styles specific to the musical theatre canon for mixed voices.

**Prerequisite:** Special approval.

**Schedule Type:** Studio

**Contact Hours:** 2 other

**Grade Mode:** Standard Letter

**THEA 41808 ACTING STYLES I: SHAKESPEARE 3 Credit Hours**

(Slashed with THEA 51808) The application of acting, movement, and voice and speech techniques to sonnets, monologues, soliloquies and scenes from Shakespeare.

**Prerequisite:** Special approval.

**Schedule Type:** Studio

**Contact Hours:** 4 other

**Grade Mode:** Standard Letter

**THEA 41900 CAPSTONE PROJECT (ELR) 1-3 Credit Hours**

The capstone project represents a culminating event for the student. Capstone projects can be undertaken in the junior or senior year and are identified in consultation with a faculty advisor. Honor students may combine the capstone project with an Honors thesis.

**Prerequisite:** Junior standing; and special approval.

**Schedule Type:** Practical Experience, Senior Project/Honors Thesis

**Contact Hours:** 1-3 other

**Grade Mode:** Satisfactory/Unsatisfactory

**Attributes:** Experiential Learning Requirement

**THEA 41992 THEATRE PRODUCTION INTERNSHIP (ELR) 1-6 Credit Hours**

(Repeatable for a maximum of 12 credit hours) Intensive advanced training in practical aspects of production. Periodic seminars, laboratory sessions and performance in a theatre company.

**Prerequisite:** Junior standing; and special approval.

**Schedule Type:** Lecture, Practical Experience

**Contact Hours:** 1-6 lecture

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**Attributes:** Experiential Learning Requirement

**THEA 42092 PRACTICUM II: DESIGN AND TECHNOLOGY (ELR) 3 Credit Hours**

(Repeatable for credit) Advanced practical experience in theatre production under faculty supervision. Available for upper division students only. Required of all theatre majors.

**Prerequisite:** Juniors or senior only; and special approval.

**Schedule Type:** Practical Experience

**Contact Hours:** 3 lecture

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**Attributes:** Experiential Learning Requirement

**THEA 42101 DYE TECHNIQUES AND FABRIC MODIFICATION 3 Credit Hours**

(Slashed with THEA 52101) This course is designed to enable the artisan to identify fiber content and determine appropriate mediums for fabric dyeing. The course explores various techniques such as shabori, stamping, rubbing, and surface lifting in order to create special effects on fabrics. A collection of dye fabric samples and information will be created so student may use as a reference book.

**Prerequisite:** Junior standing; and special approval.

**Schedule Type:** Laboratory, Lecture

**Contact Hours:** 1 lecture, 4 lab

**Grade Mode:** Standard Letter

**THEA 42150 3D CHARACTERS: FOAM FABRICATION AND FIGURE FINISHING TECHNIQUES 3 Credit Hours**

(Slashed with THEA 52150) This course provides knowledge and application of the different types of plastics/foams used for 3D character building. This course is designed to enable the artisan to work with a range of materials when building atypical pieces for costumes or props.

**Prerequisite:** Junior standing; and special approval.

**Schedule Type:** Laboratory, Lecture

**Contact Hours:** 1 lecture, 4 lab

**Grade Mode:** Standard Letter

**THEA 42192 PRACTICUM II: PERFORMANCE (ELR) 3 Credit Hours**

(Repeatable for credit) Advanced practical experience in theatre performance under faculty supervision. Available for upper division students only.

**Prerequisite:** Junior or senior standing; and special approval.

**Schedule Type:** Practical Experience

**Contact Hours:** 3 other

**Grade Mode:** Satisfactory/Unsatisfactory

**Attributes:** Experiential Learning Requirement



**THEA 42292 PRACTICUM II: THEATRE MANAGEMENT (ELR) 3 Credit Hours**

(Repeatable for a maximum of 12 credit hours) Advanced practical experience in theatre management under faculty/staff supervision. Available for upper division students only.

**Prerequisite:** Special approval.

**Schedule Type:** Practical Experience

**Contact Hours:** 3 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**Attributes:** Experiential Learning Requirement

**THEA 43092 BACHELOR OF FINE ARTS SENIOR PRACTICUM: DESIGN AND TECHNOLOGY (ELR) 2 Credit Hours**

(Repeatable for credit) Practical experience at the senior level in theatre and dance production.

**Prerequisite:** Special approval.

**Schedule Type:** Practical Experience

**Contact Hours:** 6 other

**Grade Mode:** Satisfactory/Unsatisfactory

**Attributes:** Experiential Learning Requirement

**THEA 50091 VARIABLE TOPIC SEMINAR: DEVISING THEATRE 3 Credit Hours**

A devised theatre event is work that has emerged and been generated by a group of people working in collaboration. Devising Theatre explores the processes of creating original performances defined and determined by its makers. Process and product originate from stimuli other than traditional play scripts. Students learn specialist techniques by developing solo and group performance pieces. Alternative modes of making theatre performances are considered.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Seminar

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**THEA 51010 THEATRE AND SOCIAL CHANGE 3 Credit Hours**

(Slashed with THEA 41010) This course interweaves the history, theory, practice and play text development in the field of theatre and social change.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**THEA 51026 PLAYWRITING 3 Credit Hours**

(Repeatable once for credit) Principles underlying playwriting for the contemporary theatre; analysis of short play form.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**THEA 51027 ADVANCED PLAYWRITING 3 Credit Hours**

(Repeatable once for credit)(Slashed with THEA 41027) Application of principles of playwriting to the longer play and to variations from traditional realism; play analysis and composition.

**Prerequisite:** THEA 51026; and graduate standing; and special approval of instructor.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**THEA 51095 SPECIAL TOPICS 1-3 Credit Hours**

(Repeatable for credit) Offered irregularly when unusual resources permit a topic.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 1-3 lecture

**Grade Mode:** Standard Letter

**THEA 51113 THEATRE IN A MULTICULTURAL AMERICA 3 Credit Hours**

A study of theatre and drama in the Native American, Hispanic American, African-American, and Asian American communities in the United States from 1980 to the present.

**Prerequisite:** Graduate standing; and special approval of instructor.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**THEA 51115 LGBTQ THEATRE 3 Credit Hours**

Studies of various theatrical representations of Lesbian, Gay, Bisexual, Transgender and Queer people as seen through the frameworks of history, gender theory, identity, politics, psychology, law, and justice.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**THEA 51130 THEATRE AND DRAMA IN AMERICA 3 Credit Hours**

The history of theatre and drama in America from their beginnings to the present.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**THEA 51191 VARIABLE CONTENT SEMINAR: THEATRE HISTORY, LITERATURE AND THEORY 3 Credit Hours**

(Repeatable for credit) Seminar focuses on selected topics in these areas, for example performance art, performance theory or theatre in a multicultural society.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Seminar

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**THEA 51301 ACTING FOR THE CAMERA I 3 Credit Hours**

An introduction to the specific techniques used in film acting. The course provides students with the necessary tools to make the transition from stage acting to camera acting.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**THEA 51302 ACTING FOR THE CAMERA II 3 Credit Hours**

Further development on the specific techniques used in film acting as applied to the Graduate Actor. The course continues to assist in making the transition from stage acting to camera acting.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**THEA 51303 ACTING I FOUNDATIONS/STANISLAVSKI AND MICHAEL CHEKHOV 3 Credit Hours**

The Stanislavski and Michael Chekhov Techniques: A thorough exploration of Stanislavski's Method of Psycho-Physical Action, and the Michael Chekhov technique including atmosphere, psychological gesture, and qualities of movement.

**Prerequisite:** Graduate standing; and special approval of instructor.

**Schedule Type:** Studio

**Contact Hours:** 4 other

**Grade Mode:** Standard Letter

**THEA 51304 ACTING II: SCENE STUDY-MODERN AMERICAN REALISM 3 Credit Hours**

The application of the Stanislavski and Michael Chekhov Techniques to in-depth scene study using the plays of Odets, Miller, Williams, Shanley and others.

**Prerequisite:** Graduate standing; and special approval of instructor.

**Schedule Type:** Studio

**Contact Hours:** 4 other

**Grade Mode:** Standard Letter

**THEA 51305 PROFESSIONAL ASPECTS: PERFORMANCE 3 Credit Hours**

(Slashed with THEA 41305) A study of the practical demands and requirements of a professional acting career with particular emphasis on audition skills. Also covered pictures and resumes, making rounds, professional unions, casting directors, agents and managers, the job market and career prospects.

**Prerequisite:** Graduate standing; and special approval of instructor.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**THEA 51308 MUSICAL THEATRE AUDITION 2 Credit Hours**

(Repeatable for a maximum of 4 credit hours) Explore the various genres and styles of American musical theatre songs with specific emphasis on finding practical audition repertoire for each student. Performance and research will be the primary activities in the class.

**Prerequisite:** Graduate standing; and special approval of instructor.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**THEA 51401 ADVANCED DIRECTING 3 Credit Hours**

Advanced work in directing for the theatre. Topics include director as creative interpretative artist, the director and the actor. Students direct individual projects.

**Prerequisite:** Graduate standing; and special approval of instructor.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**THEA 51420 THEATRICAL DRAFTING II 3 Credit Hours**

(Slashed with THEA 41420) Advanced 2D and 3D drafting techniques for technical directors and theatre designers. Representation of scenery through drafting using current AutoCAD software.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**THEA 51430 ADVANCED CONSTRUCTION THEORY 3 Credit Hours**

(Slashed with THEA 41430) The theory and practice of structural and mechanical design for theatre production. Related issues in resource management for the professional shop, including reliably predicting the performance of untraditional, unusual or unfamiliar structures and use of mathematical models, formulas, and representative diagrams. Graduate Students will cover steel construction, and cables.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**THEA 51440 SHOP MANAGEMENT 3 Credit Hours**

(Slashed with THEA 41440) Study of resource management, both human and non-human, for professional and academic shops. Topics include scheduling, budgeting, health and safety, interactions with other theatre workers and leadership development.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**THEA 51499 MUSICAL THEATRE SHOWCASE 2 Credit Hours**

(Repeatable for credit) (Slashed with THEA 41499) Development, promotion and presentation of a Musical Theatre showcase for industry casting personnel in New York City. Audition required prior to registration for this course.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Master's Project

**Contact Hours:** 2 other

**Grade Mode:** Standard Letter

**THEA 51521 ADVANCED LIGHTING TECHNOLOGY I 3 Credit Hours**

Advanced study of the technologies used in lighting design; conventional and intelligent fixtures, electricity, projection techniques and special effects.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**THEA 51522 DESIGN STUDIO: LIGHTING 3 Credit Hours**

Advanced study of lighting design, emphasizing artistic style and concept through a variety of design problems.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**THEA 51523 SOUND DESIGN AND TECHNOLOGY I 3 Credit Hours**

Sound design for the theatre, sound production and sound reinforcement techniques. Introduction to electronic equipment, mixing consoles, amplifiers, speakers.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**THEA 51524 DESIGN STUDIO: COSTUME 3 Credit Hours**

Advanced study in costume design. Genres, styles, in the context of performance spaces with an emphasis on research, practical considerations of costume production and communication between designer/shop personnel and designer/ director.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**THEA 51525 PROPS AND CRAFTS 3 Credit Hours**

Examination of the processes related to the creation and procurement of scenic and costume props.

**Prerequisite:** Graduate standing; and special approval of instructor.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**THEA 51526 ADVANCED LIGHTING TECHNOLOGY II 3 Credit Hours**

(Slashed with THEA 41526) Course focuses both on the practice of intelligent lighting programming and the technology of intelligent lighting fixtures.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**THEA 51527 SOUND AND DESIGN TECHNOLOGY II 3 Credit Hours**

(Slashed with THEA 41527) Studies in sound design, sound production and reinforcement for live performance. Advanced software applications will be explored.

**Prerequisite:** THEA 51523; and graduate standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**THEA 51528 THEATRE SOUND REINFORCEMENT 3 Credit Hours**

Studies in the theories and practice of audio mixing in support of live vocal and musical performance. Topics include wired and wireless microphones and real time digital processing of audio. rerequisite: Graduate standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**THEA 51529 ADVANCED WIG AND MAKEUP TECHNIQUES-STAGE AND SCREEN 3 Credit Hours**

Advanced study of the process of designing and executing wigs and makeup with an emphasis on standards in the profession. Some prosthetic work required.

**Prerequisite:** Graduate standing; and special approval of instructor.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**THEA 51531 THEATRICAL RIGGING 3 Credit Hours**

(Slashed with THEA 41531) Course is designed to teach students the principles of stage rigging, knot tying and counterweight rigging systems used in theatrical and other live entertainment situations. Students examine the process involved in overhead applications for the theatre industry. Students learn the proper method to design and rig in theatrical environments through the explanation of tools, equipment, hardware and safety practices.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**THEA 51540 DRAPING FOR THE THEATRE I 3 Credit Hours**

(Slashed with THEA 41540) The course is designed to provide an introduction to the basics of draping and building flat patterning techniques from this knowledge as they apply to theatre. More in-depth content for this graduate level course.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**THEA 51541 DRAPING FOR THE THEATRE II 3 Credit Hours**

(Slashed with THEA 41541) Course is designed to build upon skills developed in Draping for the Theatre I. Emphasis is placed on learning to drape over period undergarments such as corsetry, panniers, bustles, etc.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**THEA 51560 THEATRE FABRICATION TECHNOLOGY 3 Credit Hours**

History of technical production practice, materials theory and application in scenic construction technology.

**Prerequisite:** Graduate standing; and special approval of instructor.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**THEA 51562 ADVANCED PROJECTION DESIGN 3 Credit Hours**

(Slashed with THEA 41562) Studies in projection design, digital media, and related technologies. Advanced software applications will be explored.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**THEA 51621 PRESENTATION MEDIA 3 Credit Hours**

Advanced process techniques in rendering, model building and design presentation for the scenic costume and lighting designer in traditional and new media.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**THEA 51622 DESIGN STUDIO:SCENERY 3 Credit Hours**

Advanced study in scenic design. Explores genres, styles, performance spaces, including practical considerations.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**THEA 51624 HISTORY OF COSTUME AND TEXTILES FOR THEATRE 3 Credit Hours**

(Slashed with THEA 41624) Overview of the history of period costume and textiles in Western civilization from 1700 to 1970, a span of time commonly regarded as "popular time periods" in the practice and cannon of Western drama and the history of costume. Emphasis is placed on how theatre practitioners recreate the silhouettes of these periods in ways that make sense to a contemporary audience while using textiles available today. Students examine the social and cultural influences of clothing, recognition of historic silhouette and parallels in the artwork, literature, politics, economy and craft movements of each era of study.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**THEA 51701 MOVEMENT, FORM AND SPACE I-THE ACTOR'S PHYSICAL INSTRUMENT 3 Credit Hours**

Development of technical skills emphasizing the physical components of expressive action through integration of breath, voice and body conditioning.

**Prerequisite:** Special approval.

**Schedule Type:** Studio

**Contact Hours:** 4 other

**Grade Mode:** Standard Letter

**THEA 51702 MOVEMENT AND DANCE FOR ACTORS 3 Credit Hours**

(Repeatable for a maximum of 6 credit hours) Designed to acquaint actors with theatre dance techniques and choreographic styles by concentrating on vernacular dances used throughout musical theatre. Course combines basic ballet, jazz, and tap terminology.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Studio

**Contact Hours:** 4 other

**Grade Mode:** Standard Letter

**THEA 51703 STAGE COMBAT 3 Credit Hours**

(Repeatable for a maximum of 6 credit hours) (Slashed with THEA 41703) Introductory course focuses on creating the illusion of violence for the stage and screen. Basic instruction is given in unarmed and armed stage combat. Emphasis is on the development of technique; the process of the work; and the performance, with a focus on safety, accuracy and the fundamental techniques recognized by the Society of American Fight Directors (SAFD). Basic techniques are incorporated into short scenes to provide experience performing fights in production.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Laboratory, Lecture

**Contact Hours:** 2 lecture, 2 lab

**Grade Mode:** Standard Letter

**THEA 51734 COSTUME PRODUCTION MANAGEMENT 3 Credit Hours**

(Slashed with THEA 41734) The course is designed to provide an introduction to managerial processes as they apply to costumes, the role of a shop manager, the role of a wardrobe supervisor and the wardrobe crew, the running of a smooth technical rehearsal and production.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**THEA 51736 PRODUCTION AND STAGE MANAGEMENT 3 Credit Hours**

Advanced investigation of the methodology used in stage managing professional theatrical productions and production management processes. Focus on production processes for various theatre, dance, opera and entertainment genres.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**THEA 51802 ENSEMBLE SINGING FOR MUSICAL THEATRE 1 Credit Hour**

(Repeatable 6 times for credit) The study and performance of diverse styles specific to the musical theatre canon for mixed voices.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Studio

**Contact Hours:** 2 other

**Grade Mode:** Standard Letter

**THEA 51803 VOICE AND SPEECH I 3 Credit Hours**

Practical study and application of voice and speech production for the actor into various styles of verse and prose, including heightened language and text.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Laboratory, Lecture, Combined Lecture and Lab

**Contact Hours:** 2 lecture, 2 lab

**Grade Mode:** Standard Letter

**THEA 51808 ACTING STYLES I: SHAKESPEARE 3 Credit Hours**

The application of acting, movement, and voice and speech techniques to sonnets, monologues, soliloquies, and scenes from Shakespeare.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Studio

**Contact Hours:** 4 other

**Grade Mode:** Standard Letter

**THEA 52101 DYE TECHNIQUES AND FABRIC MODIFICATION 3 Credit Hours**

(Slashed with THEA 42101) This course is designed to enable the artisan to identify fiber content and determine appropriate mediums for fabric dyeing. The course explores various techniques such as shabori, stamping, rubbing, and surface lifting in order to create special effects on fabrics. A collection of dye fabric samples and information will be created so student may use as a reference book.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Laboratory, Lecture

**Contact Hours:** 1 lecture, 4 lab

**Grade Mode:** Standard Letter

**THEA 52150 THREE-DIMENSIONAL CHARACTERS: FOAM FABRICATION AND FIGURE FINISHING TECHNIQUES 3 Credit Hours**

(Slashed with THEA 42150) This course provides knowledge and application of the different types of plastics/foams used for 3D character building. This course is designed to enable the artisan to work with a range of materials when building atypical pieces for costumes or props.

**Prerequisite:** Graduate Standing and special approval.

**Schedule Type:** Laboratory, Lecture

**Contact Hours:** 1 lecture, 4 lab

**Grade Mode:** Standard Letter

**THEA 60196 INDIVIDUAL INVESTIGATION: HISTORIC TEXTILES 3 Credit Hours**

(Repeatable for credit) Identification and analysis of textile fabric as the reflection of culture.

**Prerequisite:** Graduate standing.

**Schedule Type:** Individual Investigation

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**THEA 60199 M.F.A. THESIS PROJECT 3 Credit Hours**

(Repeatable for credit) Students must register for course during the semester of their M.F.A. thesis project.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Masters Thesis

**Contact Hours:** 3 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**THEA 60992 PROFESSIONAL THEATRE INTERNSHIP I 3,6 Credit Hours**

(Repeatable once) Intensive advanced training in practical aspects of production. Periodic seminars, laboratory sessions and performance in the Porthouse Theatre Company.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Practical Experience

**Contact Hours:** 3-6 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**THEA 61000 INTRODUCTION TO GRADUATE STUDY IN THEATRE 3 Credit Hours**

Orientation to bibliography and research in the field of theatre with emphasis on application of research to performance.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**THEA 61094 COLLEGE TEACHING IN THEATRE 3 Credit Hours**

(Repeatable for credit) Strategies for teaching, issues on implications of pedagogical practice and responsibilities of academic leadership.

**Prerequisite:** Graduate standing; and special approval of instructor.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**THEA 61095 SPECIAL TOPICS 1-3 Credit Hours**

(Repeatable for credit) Offered irregularly when unusual resources permit a topic different from existing courses. Topic are announced when scheduled.

**Prerequisite:** Graduate standing; and special approval of instructor.

**Schedule Type:** Lecture

**Contact Hours:** 1-3 lecture

**Grade Mode:** Standard Letter

**THEA 61096 INDIVIDUAL INVESTIGATION: THEATRE AND DRAMA 1-4 Credit Hours**

(Repeatable for a maximum of 6 credit hours) Independent study of an area or problem approved by divisional graduate coordinator in consultation with project director.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Individual Investigation

**Contact Hours:** 1-4 other

**Grade Mode:** Standard Letter-IP

**THEA 61098 RESEARCH 1-15 Credit Hours**

(Repeatable for credit) Research or individual investigation for master's-level graduate students. Credits may be applied toward meeting degree requirements with school approval.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Research

**Contact Hours:** 1-15 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**THEA 61201 SOFTWARE APPLICATIONS 3 Credit Hours**

A survey of current software used in theatre production with an emphasis on applications for management, design and technical direction.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**THEA 61303 ACTING III SCENE STUDY: NATURALISM AND ABSURD 3 Credit Hours**

In-depth scene study in the genres of Naturalism and Absurd theatre. Exploration of the works of Chekhov, Strindberg, Beckett and others.

**Prerequisite:** Graduate standing; and special approval of instructor.

**Schedule Type:** Studio

**Contact Hours:** 4 other

**Grade Mode:** Standard Letter

**THEA 61305 ACTING STYLES II: GREEK AND COMEDY OF MANNERS 3 Credit Hours**

Application of acting, movement and speech techniques to these specific genres. Focus on style and physicalization using Greek and English Restoration playwrights as well as Molière, Wilde and others.

**Prerequisite:** Graduate standing; and special approval of instructor.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**THEA 61306 PROFESSIONAL ASPECTS: DESIGN AND TECHNOLOGY 3 Credit Hours**

A study of the practical demands and requirements of a professional career in design and technology, including portfolio development, resumes, unions, job market, financial matters and career prospects.

Emphasis is placed on developing skills and materials for finding employment and the use of marketing communication techniques.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**THEA 61309 MASTER OF FINE ARTS COMPREHENSIVE PROJECT IN ACTING 1-3 Credit Hours**

Intensive work in the development of the practical aspects of production; includes performance or exhibition of work, documentation of that work in a format appropriate for area and project, and an exit interview.

**Prerequisite:** THEA 61000; and graduate standing; and special approval of instructor.

**Schedule Type:** Laboratory

**Contact Hours:** 3-9 lab

**Grade Mode:** Satisfactory/Unsatisfactory-IP



**THEA 61310 MASTER OF FINE ARTS DESIGN AND TECHNOLOGY  
CULMINATING PROJECT 3 Credit Hours**

An intensive experience in the development of design and/or technical aspects of a theatrical production; the scope of work may include but not necessarily be limited to research, drawings and drafting, renderings and associated digital image, video or audio files. Documentation (appropriate for the area and project) is presented at an exit interview.

**Prerequisite:** THEA 61000; and graduate standing; and special approval of instructor.

**Schedule Type:** Individual Investigation, Masters Thesis, Studio

**Contact Hours:** 3 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**THEA 61420 COLLABORATION IN PRODUCTION STUDIO 1 Credit  
Hour**

Knowledge acquisition and the development of skills to create resolve and present well-reasoned theatrical design. Students will employ the design and production process, observation of deadlines, and collaboration with other designers and technical directors, as a structure to elevate production.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Seminar

**Contact Hours:** 1 lecture

**Grade Mode:** Standard Letter

**THEA 61525 MILLINERY AND 3-D CHARACTERS 3 Credit Hours**

Advanced studies of techniques of millinery construction and 3D character construction with an emphasis on current practice in the industry.

**Prerequisite:** Graduate standing; and special approval of instructor.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**THEA 61528 DESIGN PROCESS AND COLLABORATION 3 Credit  
Hours**

Introduction to the design process and collaboration in a theatrical production. Students have the opportunity to analyze best practices, strategies and the strengths and challenges of designers.

**Prerequisite:** THEA 61000; and graduate standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**THEA 61531 PERIOD STYLE FOR THEATRE DESIGNERS 3 Credit  
Hours**

An exploration of the relationship of period style, historical context and the designer's artistic choices in contemporary interpretations of period plays.

**Prerequisite:** Theatre studies major; and concentration in design/technology-costume design, design/technology-lighting design, design/technology-scene design or design/technology-technical direction; and graduate standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**THEA 61623 DIGITAL RENDERING THEATRE DESIGN 3 Credit Hours**

Explores a variety of digital rendering methods for artistic 2D and 3D graphics visualization of theatrical design concepts.

**Prerequisite:** Theatre studies major; and concentration in design/technology-costume design, design/technology-lighting design, design/technology-scene design or design/technology-technical direction; and graduate standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**THEA 61701 MOVEMENT, FORM AND SPACE II-NEUTRAL AND  
CHARACTER MASK 3 Credit Hours**

Advanced skills and conditioning focusing on the physical and vocal qualities of characterization achieved through performance in masks.

**Prerequisite:** THEA 51701; and graduate standing; and special approval of instructor.

**Schedule Type:** Studio

**Contact Hours:** 4 other

**Grade Mode:** Standard Letter

**THEA 61703 MOVEMENT, FORM AND SPACE III 3 Credit Hours**

Advanced skills and conditioning focusing on the physical and vocal qualities of characterization achieved through period movement. This course allows actors to effectively perform movement and styles from specific historical periods and genres.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Seminar, Studio

**Contact Hours:** 2 lecture, 2 other

**Grade Mode:** Standard Letter

**THEA 61803 VOICE AND SPEECH II 3 Credit Hours**

Ongoing study and application of voice and speech technique into various styles of text, and the analysis and development of accents for performance and presentation.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Laboratory, Lecture, Combined Lecture and Lab

**Contact Hours:** 2 lecture, 2 lab

**Grade Mode:** Standard Letter

**THEA 61804 VOICE AND SPEECH III 3 Credit Hours**

Advanced study and application of voice and speech techniques, focusing on the extremes of vocal demands.

**Prerequisite:** THEA 51803; and graduate standing; and special approval.

**Schedule Type:** Laboratory, Lecture, Combined Lecture and Lab

**Contact Hours:** 2 lecture, 2 lab

**Grade Mode:** Standard Letter

**THEA 61806 SINGING FOR THE ACTOR 1 Credit Hour**

A comprehensive study of performance techniques and repertoire appropriate to the singing actor.

**Prerequisite:** THEA 51801; and graduate standing; and special approval of instructor.

**Schedule Type:** Studio

**Contact Hours:** 1 other

**Grade Mode:** Standard Letter

**THEA 61992 PROFESSIONAL THEATRE INTERNSHIP II 3,6 Credit Hours**

(Repeatable for credit) Intensive advanced training in practical aspects of production. Periodic seminars, laboratory sessions and performance in a professional theatre company.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Practical Experience

**Contact Hours:** 3 lecture

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**THEA 62092 PRACTICUM: DESIGN/TECHNOLOGY 3 Credit Hours**

(Repeatable for credit) Practical experience for the graduate student in theatre design and technology under faculty supervision.

**Prerequisite:** Graduate standing; and special approval of instructor.

**Schedule Type:** Practical Experience

**Contact Hours:** 3 lecture

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**THEA 62192 PRACTICUM: PERFORMANCE 3 Credit Hours**

(Repeatable for credit) (Cross-listed with KBT 62192) Practical experience for the graduate student in theatre performance under faculty supervision.

**Prerequisite:** Graduate standing; and special approval of instructor.

**Schedule Type:** Practical Experience

**Contact Hours:** 3 lecture

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**THEA 62292 PRACTICUM: THEATRE MANAGEMENT 3 Credit Hours**

(Repeatable for a maximum of 12 credit hours) Practical experience for the graduate student in theatre management under faculty/staff supervision.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Practical Experience

**Contact Hours:** 3 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**THEA 62392 PRACTICUM: PERFORMANCE PEDAGOGY 1 Credit Hour**

(Repeatable for credit) Advanced practical experience in theatre performance pedagogy under faculty supervision.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Practical Experience

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**THEA 62892 THEATRE PRACTICUM 1 Credit Hour**

(Repeatable twice for credit) Practical experience for the graduate student in cocurricular theatre activities, under faculty supervision.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Practical Experience

**Contact Hours:** 1 lecture

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**THEA 62992 THEATRE PRODUCTION INTERNSHIP 1-6 Credit Hours**

(Repeatable for a maximum of 12 credit hours) (Slashed with THEA 72992) Intensive advanced training in practical aspects of production. Periodic seminars, laboratory sessions and performance in a theatre company or touring with Kent Theatre Ensemble.

**Prerequisite:** Graduate standing; and special approval of advisor.

**Schedule Type:** Practical Experience

**Contact Hours:** 1-6 lecture

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**THEA 63001 SCENIC DESIGN I: FOUNDATIONS IN SINGLE SET SCENIC DESIGN 2 Credit Hours**

Introduction to the methodology and practice of professional scene design. Application of knowledge made through a series of design projects. Script Analysis, perspective rendering and model-making techniques will be emphasized for single set productions.

**Prerequisite:** Graduate standing in the School of Theatre and Dance; and special approval.

**Schedule Type:** Seminar

**Contact Hours:** 2 other

**Grade Mode:** Standard Letter

**THEA 63002 SCENIC DESIGN II: ADVANCED SINGLE SET SCENIC DESIGN 2 Credit Hours**

Inquiry to the methodology and practice of professional scene design. Application of knowledge will be through a series of complex design projects. Script analysis, drafting, perspective rendering and more advanced model-making techniques will be emphasized.

**Prerequisite:** Graduate standing in the School of Theatre and Dance; and special approval.

**Schedule Type:** Seminar

**Contact Hours:** 2 other

**Grade Mode:** Standard Letter

**THEA 63003 SCENIC DESIGN III: DESIGNING BEYOND DRAMA 2 Credit Hours**

An advanced approach to professional scene design as it applies to opera, musical theatre, and the entertainment industry. Advanced design communication techniques will be applied through a series of design projects. Textual analysis, conceptual unit/multi-set productions, storyboarding, and advanced visual communication/presentation techniques will be emphasized.

**Prerequisite:** Graduate standing in the School of Theatre and Dance; and special permission.

**Schedule Type:** Seminar

**Contact Hours:** 2 other

**Grade Mode:** Standard Letter

**THEA 63004 SCENIC DESIGN IV: ADVANCED MULTI-SETTING DESIGN 2 Credit Hours**

An advanced approach to professional scene design as it applies to opera, musical theatre, and the entertainment industry in non-traditional spaces. Advanced design communication techniques will be applied through a series of design projects. Analysis, conceptual unit/multi-set productions, storyboarding, and advanced visual communication/presentation techniques will be emphasized.

**Prerequisite:** Graduate standing in the School of Theatre and Dance; and special permission.

**Schedule Type:** Seminar

**Contact Hours:** 2 other

**Grade Mode:** Standard Letter

**THEA 63005 SCENIC DESIGN V: ENTERTAINMENT AND PRODUCTION DESIGN 2 Credit Hours**

An advanced approach to professional scene design as it applies to industrials, showrooms and the entertainment industry. Knowledge of techniques will be applied through a series of design projects, analysis, conceptual approaches, storyboarding, and advanced visual communication/presentation techniques. This course will focus on refinement of the theoretical and practical skills of the professional scenic designer.

**Prerequisite:** Graduate standing in the School of Theatre and Dance; and special approval.

**Schedule Type:** Seminar

**Contact Hours:** 2 other

**Grade Mode:** Standard Letter

**THEA 63006 SCENIC DESIGN VI: NON-TRADITIONAL AND SITE-SPECIFIC PERFORMANCES 2 Credit Hours**

An advanced approach to professional scene design as it applies to industrials and the entertainment industry. Site specific design communication techniques will be applied through a series of design projects. Analysis, conceptual approaches, storyboarding, and advanced visual communication/presentation techniques will be emphasized.

**Prerequisite:** Graduate standing in the School of Theatre and Dance; and special approval.

**Schedule Type:** Seminar

**Contact Hours:** 2 other

**Grade Mode:** Standard Letter

**THEA 63092 PRODUCTION COLLABORATION: SCENIC DESIGN 1-2 Credit Hours**

(Repeatable for credit) Practical preparation, design and production work as applied to Scenic design within the School of Theatre and Dance. This course will serve as both a time to cultivate management of resources and synthesize information in developing solutions to production-related issues in scene design. Repeatable to a maximum of 8 credits.

**Prerequisite:** Graduate standing in the School of Theatre and Dance; and special approval.

**Schedule Type:** Practical Experience

**Contact Hours:** 3-6 other

**Grade Mode:** Standard Letter

**THEA 63192 MENTORSHIP IN PERFORMANCE 3 Credit Hours**

(Repeatable for a total of 6 credit hours) Development of advanced skills and abilities to mentor student performers in aspects of the profession, including professional behavior, understanding of the business and the actor's creative process. Major work done while participating in rehearsal and performance of main stage productions or assisting in THEA 41305/ THEA 51305. Students may take the course alongside THEA 62192.

**Prerequisite:** Graduate standing; and special approval of instructor.

**Schedule Type:** Practical Experience

**Contact Hours:** 6 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**THEA 64001 THEATRE TECHNICAL DIRECTION I: FOUNDATIONS I 2 Credit Hours**

Investigation of publications in the field of technical theatre and their relevance to examining the technical manager as planner, artist, creative thinker positive leader and colleague.

**Prerequisite:** Graduate standing in the School of Theatre and Dance; and special approval.

**Schedule Type:** Seminar

**Contact Hours:** 2 other

**Grade Mode:** Standard Letter

**THEA 64002 THEATRE TECHNICAL DIRECTION II: FOUNDATIONS II 2 Credit Hours**

Continued Investigation of publications in the field of technical theatre and their relevance to examining the technical manager as planner, artist, creative thinker positive leader and colleague.

**Prerequisite:** Graduate standing in the School of Theatre and Dance; and special approval.

**Schedule Type:** Seminar

**Contact Hours:** 2 other

**Grade Mode:** Standard Letter

**THEA 64003 THEATRE TECHNICAL DIRECTION III: TOURING PRODUCTIONS 2 Credit Hours**

Course covers the logistics of transporting a theatrical production, the concepts and needs of touring productions, and different construction techniques needed for disassembly and quick reassembly.

**Prerequisite:** Graduate standing in the School of Theatre and Dance; and special approval.

**Schedule Type:** Seminar

**Contact Hours:** 2 other

**Grade Mode:** Standard Letter

**THEA 64004 THEATRE TECHNICAL DIRECTION IV: EDUCATIONAL THEATRE 2 Credit Hours**

Examination of the roles of the technical director in academia, including the evolution of and current state of technical theatre education.

Course will explore the work and presentations of the USITT Education Commission.

**Prerequisite:** Graduate standing in the School of Theatre and Dance; and special approval.

**Schedule Type:** Seminar

**Contact Hours:** 2 other

**Grade Mode:** Standard Letter

**THEA 64005 THEATRE TECHNICAL DIRECTION V: MECHANICS AND AUTOMATION 2 Credit Hours**

Examination of the techniques and applications of automated scenery and stage mechanics.

**Prerequisite:** Graduate Standing in the School of Theatre & Dance and special permission.

**Schedule Type:** Seminar

**Contact Hours:** 2 other

**Grade Mode:** Standard Letter

**THEA 64006 THEATRE TECHNICAL DIRECTION VI: HEALTH AND SAFETY 2 Credit Hours**

Focus on the health & safety concerns of live performance, including the organizations OSHA, NFPS, ANSI, Red Cross, their protocols and their relation to theatre.

**Prerequisite:** Graduate standing in the School of Theatre and Dance; and special approval.

**Schedule Type:** Seminar

**Contact Hours:** 2 other

**Grade Mode:** Standard Letter

**THEA 64092 PRODUCTION COLLABORATION: TECHNICAL DIRECTION 1-2 Credit Hours**

(Repeatable for credit) Practical preparation, design and production work as applied to technical direction within the School of Theatre and Dance. This course will serve as both a time to cultivate management of resources and synthesize information in developing solutions to production-related issues in technical direction. Repeatable to a maximum of 8 credits.

**Prerequisite:** Graduate standing in the School of Theatre and Dance.

**Schedule Type:** Practical Experience

**Contact Hours:** 3-6 other

**Grade Mode:** Standard Letter

**THEA 64192 MENTORSHIP AT PORTHOUSE 3 Credit Hours**

(Repeatable for a total of 6 credit hours) Development of advanced skills and abilities to mentor student performers in aspects of the profession, including professional behavior, understanding of the business and the actor's creative process. Major work done while participating in rehearsal of Porthouse Theatre productions. Students may take the course alongside THEA 62192.

**Prerequisite:** Graduate standing; and special approval of instructor.

**Schedule Type:** Practical Experience

**Contact Hours:** 6 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**THEA 65000 HISTORY, HISTORICISM, THEORY AND PRACTICE IN THEATRE AND DRAMA 3 Credit Hours**

Course covers the breadth of theatre history and historicism and application of theatre theory to practice by focusing on the six major stylistic periods: Greek and Roman, Medieval, Renaissance, Romanticism, Realism and Non Realism (symbolism, expressionism, surrealism, absurdism) and contemporary period (postmodernism, feminism and interculturalism, multiculturalism). Using lecture, scholarly articles, video viewing and practical writing projects, students learn about and practice each style, as well apply the style to students' respective areas of graduate study (i.e. actor, director, designer).

**Prerequisite:** THEA 61000; and graduate standing; and special approval.

**Schedule Type:** Research, Seminar

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**THEA 65001 LIGHTING DESIGN I: DRAMA 2 Credit Hours**

Advanced exploration and development of artistic processes and method for lighting design in drama.

**Prerequisite:** Graduate standing in the School of Theatre and Dance; and special approval.

**Schedule Type:** Seminar

**Contact Hours:** 2 other

**Grade Mode:** Standard Letter

**THEA 65002 LIGHTING DESIGN II: MUSICAL THEATRE 2 Credit Hours**

Advanced exploration and development of artistic processes and methods for lighting design in musical theatre.

**Prerequisite:** Graduate standing in the School of Theatre and Dance; and special approval.

**Schedule Type:** Seminar

**Contact Hours:** 2 other

**Grade Mode:** Standard Letter

**THEA 65003 LIGHTING DESIGN III: DANCE AND OPERA 2 Credit Hours**

Advanced exploration and development of artistic processes and methods for lighting design in classical and contemporary dance and opera.

**Prerequisite:** Graduate standing in the School of Theatre and Dance; and special approval.

**Schedule Type:** Seminar

**Contact Hours:** 2 other

**Grade Mode:** Standard Letter

**THEA 65004 LIGHTING DESIGN IV: NON-TRADITIONAL PRODUCTIONS 2 Credit Hours**

Exploration and development of artistic processes and methods in lighting design for non-traditional works, including multidisciplinary and devised productions.

**Prerequisite:** Graduate standing in the School of Theatre and Dance; and special approval.

**Schedule Type:** Seminar

**Contact Hours:** 2 other

**Grade Mode:** Standard Letter

**THEA 65005 LIGHTING DESIGN V: ARCHITECTURAL AND INTERIOR LIGHTING 2 Credit Hours**

Exploration and development of artistic processes and methods in lighting design for architectural and commercial interiors.

**Prerequisite:** Graduate standing in the School of Theatre and Dance; and special approval.

**Schedule Type:** Seminar

**Contact Hours:** 2 other

**Grade Mode:** Standard Letter

**THEA 65006 LIGHTING DESIGN VI: NEW TECHNOLOGY 2 Credit Hours**

Exploration of innovative technology and technological tools and their application to lighting design. The course includes exploration of non-conventional, automated, projection and LED technologies.

**Prerequisite:** Graduate standing in the School of Theatre and Dance; and special approval.

**Schedule Type:** Seminar

**Contact Hours:** 2 other

**Grade Mode:** Standard Letter

**THEA 65092 PRODUCTION COLLABORATION: LIGHTING DESIGN 1-2 Credit Hours**

(Repeatable for credit) Practical preparation, design and production work as applied to lighting design within the School of Theatre and Dance. This course will serve as both a time to cultivate management of resources and synthesize information in developing solutions to production-related issues in lighting. Repeatable to a maximum of 8 credits.

**Prerequisite:** Graduate standing in the School of Theatre and Dance; and special approval.

**Schedule Type:** Practical Experience

**Contact Hours:** 3-6 other

**Grade Mode:** Standard Letter

**THEA 65192 TEACHING PRACTICUM 3 Credit Hours**

(Repeatable for a total of 6 credit hours) Application of strategies for teaching at the college level. Development of advanced skills in course preparation, classroom management and pedagogical practice. Major work done teaching or assisting with undergraduate classes.

**Prerequisite:** THEA 61094; and graduate standing.

**Schedule Type:** Practical Experience

**Contact Hours:** 6 other

**Grade Mode:** Satisfactory/Unsatisfactory

**THEA 66001 COSTUME DESIGN I: SCRIPT ANALYSIS 2 Credit Hours**  
Exploration and development of different methods and artistic processes for costume design. By focusing on textual analysis, the costume student will be able to explore a wide variety of performance types.

**Prerequisite:** Graduate standing in the School of Theatre and Dance; and special approval.

**Schedule Type:** Seminar

**Contact Hours:** 2 other

**Grade Mode:** Standard Letter

**THEA 66002 COSTUME DESIGN II: PERFORMANCE GENRES 2 Credit Hours**

Exploration and development of different methods and artistic processes for costume design in diverse genres, including dance, opera, and circus.

**Prerequisite:** Graduate standing in the School of Theatre and Dance; and special approval.

**Schedule Type:** Seminar

**Contact Hours:** 2 other

**Grade Mode:** Standard Letter

**THEA 66003 COSTUME DESIGN III: THEATRICAL STYLES 2 Credit Hours**

Advanced exploration of costume designs which incorporate both historical and thematic stylized conventions.

**Prerequisite:** Graduate standing in the School of Theatre and Dance; and special approval.

**Schedule Type:** Seminar

**Contact Hours:** 2 other

**Grade Mode:** Standard Letter

**THEA 66004 COSTUME DESIGN IV: ADVANCED RENDERING 2 Credit Hours**

Development of advanced figure drawing study and rendering techniques in order to strengthen the student's skill and facility in producing costume renderings.

**Prerequisite:** Graduate standing in the School of Theatre and Dance; and special approval.

**Schedule Type:** Seminar

**Contact Hours:** 2 other

**Grade Mode:** Standard Letter

**THEA 66005 COSTUME DESIGN V: RESEARCH METHODS 2 Credit Hours**

Intensive focus on the variety of research methodologies and their application to both contemporary and period costume designs.

**Prerequisite:** Graduate standing in the School of Theatre and Dance; and special approval.

**Schedule Type:** Seminar

**Contact Hours:** 2 other

**Grade Mode:** Standard Letter

**THEA 66006 COSTUME DESIGN VI: TEXTILES 2 Credit Hours**

An understanding of the appropriate application of many common and specialty fabrics used in costume design.

**Prerequisite:** Graduate standing in the School of Theatre and Dance; and special approval.

**Schedule Type:** Seminar

**Contact Hours:** 2 other

**Grade Mode:** Standard Letter

**THEA 66092 PRODUCTION COLLABORATION: COSTUME DESIGN/ TECHNOLOGY 1-2 Credit Hours**

(Repeatable for credit) Practical preparation, design and production work as applied to Costuming within the School of Theatre and Dance. This course will serve as both a time to cultivate management of resources and synthesize information in developing solutions to production-related issues in costumes. Repeatable to a maximum of 8 credits.

**Prerequisite:** Graduate standing in the School of Theatre and Dance; and special approval.

**Schedule Type:** Practical Experience

**Contact Hours:** 3-6 other

**Grade Mode:** Standard Letter

**THEA 72992 THEATRE PRODUCTION INTERNSHIP 1-6 Credit Hours**

(Repeatable for a total of 12 credit hours)(Slashed with THEA 62992) Intensive advanced training in practical aspects of production. Periodic seminars, laboratory sessions and performance in a theatre company or touring with Kent Theatre Ensemble.

**Prerequisite:** Doctoral standing and special approval of advisor.

**Schedule Type:** Lecture, Practical Experience

**Contact Hours:** 1-6 lecture

**Grade Mode:** Satisfactory/Unsatisfactory-IP

## Translation Studies (TRST)

**TRST 20009 MULTILINGUAL INFORMATION LIFECYCLE 3 Credit Hours**

Introduction to the multilingual information cycle, including general technological issues, text preparation, translation in markup languages, computer-assisted translation tools and multilingual information flow for multilingual and multicultural work. Course is taught in English.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**TRST 30230 APPROACHES TO TRANSLATION 3 Credit Hours**

Introduction to foreign language translation. Introduces concepts, resources, principles and techniques of text analysis and translation strategies applicable to various types of texts.

**Prerequisite:** Junior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**TRST 30330 CROSS-LANGUAGE MEDIATION 3 Credit Hours**

An exploration of textual and contextual factors impacting cross-language mediation.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter



**TRST 50031 PROFESSIONAL EDITING FOR TRANSLATORS 3 Credit Hours**

Provides practical instruction in the editing of translated texts representing a variety of text types. Course covers the skills and techniques that are required for all stages of the editing process and using the best practices of professional translation. Topics include the stages of editing, from rough translation to finished draft; electronic tools for multilingual translation editing; translation style guides; and pre- and post-editing of machine translation. Interactive lecture and workshop formats.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**TRST 60001 GRADUATE RESEARCH AND WRITING IN TRANSLATION STUDIES 3 Credit Hours**

Individual instruction and assistance with problems encountered in academic research and writing in translation.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**TRST 60009 DOCUMENTS IN MULTILINGUAL CONTEXTS 2 Credit Hours**

An in-depth study of the role of documents in the multilingual information cycle as manifested in word-processing, desktop publishing and web-based environment.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**TRST 60010 THEORY OF TRANSLATION AND INTERPRETING 2 Credit Hours**

Introduction to the theoretical bases and methods of language mediation.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**TRST 60011 TERMINOLOGY AND COMPUTER APPLICATIONS IN TRANSLATION 3 Credit Hours**

Practice-oriented introduction to terminology management and translation tools, such as term extraction, translation memory and machine translation.

**Prerequisite:** TRST 60009; and graduate standing.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**TRST 60012 SOFTWARE LOCALIZATION 3 Credit Hours**

Introduction to localization, the translation and adaptation of products, including software and web pages for sale or dissemination in specific target-language markets. Course introduces the basic concepts and techniques of localization and provides a hands-on introduction to relevant computer software.

**Prerequisite:** TRST 60011 with a minimum B grade; and graduate standing.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**TRST 60013 LANGUAGE PROJECT MANAGEMENT 3 Credit Hours**

Introduction to project management in the language industry. Course covers the body of knowledge and skills, including the use of project management software that is required to perform the duties of a translation or localization project manager. Beginning with an overview of the language industry, the course examines the language industry project.

**Prerequisite:** TRST 60011 with a minimum B grade; and graduate standing.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**TRST 60031 INTERCULTURAL COMMUNICATION IN THE LANGUAGE INDUSTRY 3 Credit Hours**

The role and impact of intercultural communication models, theories and approaches in shaping language industry dynamics.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**TRST 60095 SPECIAL TOPICS IN TRANSLATIONS STUDIES 1-3 Credit Hours**

(Repeatable for a maximum of 12 credit hours) Content varies with the topic, which may include any aspect of translation studies (practical or theoretical). Topics are taught in English and some topics may be team taught.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 1-3 lecture

**Grade Mode:** Standard Letter

**TRST 60098 RESEARCH IN TRANSLATION STUDIES 1-15 Credit Hours**

(Repeatable for a maximum of 15 credit hours) Research for students in the master's degree in translation. Credits earned may be applied toward degree with department approval.

**Prerequisite:** Graduate standing.

**Schedule Type:** Research

**Contact Hours:** 1-15 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**TRST 60298 APPLIED TRANSLATION RESEARCH 1-3 Credit Hours**

(Repeatable for a maximum of 3 credit hours) Research experience in translation or interpreting in a corporate, translation bureau or freelance setting, supervised by a faculty member.

**Prerequisite:** TRST 60010; and graduate standing.

**Schedule Type:** Research

**Contact Hours:** 1-3 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**TRST 70001 APPLIED LINGUISTICS AND TRANSLATION INFORMATICS 3 Credit Hours**

Advanced topics in applied linguistics, including corpus and text linguistics as they apply to translation. Advanced topics in translation informatics in multilingual environments.

**Prerequisite:** TRST 60011; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**TRST 70002 THE LANGUAGE INDUSTRY 3 Credit Hours**

Study of the socio-economic context of professional translation and the language services business sector. Includes in-depth study of the language industry drawing on industry analysis and business case studies.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**TRST 70003 TERMINOLOGY STUDIES 3 Credit Hours**

Advanced topics in terminology, lexicography, ontology and knowledge organization systems.

**Prerequisite:** TRST 60011; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**TRST 70004 TRANSLATION PEDAGOGY 3 Credit Hours**

Teaching methods and curriculum design for translation programs.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**TRST 70005 CURRENT TRENDS IN TRANSLATION STUDIES 3 Credit Hours**

A critical examination of the main trends in translation theory and an exploration of emerging developments in translation studies.

**Prerequisite:** TRST 60010; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**TRST 70006 EMPIRICAL METHODS FOR TRANSLATION STUDIES 3 Credit Hours**

Study of the methods and research designs used to conduct empirical research in translation, with an emphasis on experimental design of cross-language tasks; the use and analysis of bilingual verbal protocols; the application of new methods, such as keystroke-logging and eye-tracking; and the particular empirical and methodological issues involved in cross-language research data-gathering and statistical analysis.

**Prerequisite:** Translation studies major; and doctoral standing.

**Schedule Type:** Seminar

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**TRST 70007 CORPORA IN TRANSLATION 3 Credit Hours**

Exploration of corpus-based applications in translation studies research and the practice of translation. Competence in utilizing translation-oriented corpus-based tools and corpus building will be fostered.

**Prerequisite:** Translation studies major; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**TRST 70008 TRANSLATION AND COGNITION 3 Credit Hours**

Study of foreign language translation and interpreting from a cognitive science perspective. Includes discussion of current empirical research; application of selected models of cognition to problems in translation studies; and research design in translation process research.

**Prerequisite:** Translation studies major; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**TRST 80091 SEMINAR IN TRANSLATION STUDIES 3 Credit Hours**

(Repeatable for credit) Seminar for doctoral students to present and discuss research related to specific areas of translation studies. May be taken for a total of 6 credit hours, either alone or in combination with TRST 80191.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Seminar

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**TRST 80098 RESEARCH IN TRANSLATION STUDIES 1-15 Credit Hours**

(Repeatable for credit) Research for doctoral students. Credits earned may be applied toward degree with department approval.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Research

**Contact Hours:** 1-15 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**TRST 80191 SEMINAR IN TRANSLATION INFORMATICS 3 Credit Hours**

(Repeatable for credit) Seminar for doctoral students to present and discuss research related to specific areas of translation informatics. May be taken for a total of 6 credit hours, either alone or in combination with TRST 80191.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Seminar

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**TRST 80199 DISSERTATION I 15 Credit Hours**

(Repeatable for credit) Doctoral dissertation. Registration in at least two semesters is required the first of which will be the semester in which dissertation work begins and continuing until 30 hours are completed.

**Prerequisite:** Doctoral standing; and special approval.

**Schedule Type:** Dissertation

**Contact Hours:** 15 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**TRST 80299 DISSERTATION II 15 Credit Hours**

(Repeatable for credit) Continuing registration required of doctoral students who have completed the initial 30 hours of dissertation, continuing until all degree requirements are met.

**Prerequisite:** TRST 80199; and doctoral standing.

**Schedule Type:** Dissertation

**Contact Hours:** 15 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

## University College (UC)

**UC 10002 ADULT STUDENT ORIENTATION 1 Credit Hour**

(Equivalent to UC 10097) Course focuses on balancing adult roles and responsibilities with college demands. Students sharpen learning skills and study strategies while making connections with other adult students at Kent State.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 1 lecture

**Grade Mode:** Satisfactory/Unsatisfactory

**UC 10095 SPECIAL TOPICS IN UNIVERSITY COLLEGE 1-3 Credit Hours**

(Repeatable for credit) Variable topics course that encourages interdisciplinary study to cover areas not treated adequately in traditional coursework and to make available promptly the new and significant experience of the faculty.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 1-3 lecture

**Grade Mode:** Standard Letter

**UC 10096 INDIVIDUAL INVESTIGATION 1-6 Credit Hours**

(Repeatable for a maximum of 6 credit hours) Experiential learning opportunity, working with a faculty member in his or her area of expertise.

**Prerequisite:** None.

**Schedule Type:** Individual Investigation

**Contact Hours:** 1-6 other

**Grade Mode:** Standard Letter-IP

**UC 10097 DESTINATION KENT STATE: FIRST YEAR EXPERIENCE 1 Credit Hour**

(Equivalent to UC 10002 or UC 20007) Course assists students in making a successful academic transition to the university through experiential or intellectually engaging discipline-based content. Required of all first-year students. Not required of transfer students with 25 or more credit hours.

**Prerequisite:** None.

**Schedule Type:** Colloquium

**Contact Hours:** 1 other

**Grade Mode:** Standard Letter

**UC 10162 INTRODUCTION TO PROFESSIONAL DEVELOPMENT 1 Credit Hour**

Course exposes students to professional skills and competencies they will need and use in the future. Students begin to develop important career ready competencies. Students learn about the art of networking and relationship building, what it means to be culturally agile, how to succinctly present themselves (elevator pitch and executive summaries), how to use career job sites and resources for career exploration and-or researching companies. Students must have satisfactorily completed UC 10097 before taking this course.

**Prerequisite:** College of business administration major.

**Schedule Type:** Lecture

**Contact Hours:** 1 lecture

**Grade Mode:** Standard Letter

**UC 10177 EXPERIENTIAL LEARNING PLUS-1 CREDIT 1 Credit Hour**

(Repeatable for maximum 2 credits) Course allows students to add experiential learning to any undergraduate course. The course involves applying the knowledge and skills developed in a course to support local initiative through civic engagement. Students consider the knowledge base of the primary course and/or discipline, and how it is applied in real practice. Reflective activities are used to challenge students to consider larger questions and the interdisciplinary nature of complex problems and solutions. This course is not a stand-alone course - it must be appended to a primary course.

**Prerequisite:** Special approval.

**Schedule Type:** Field Experience, Practical Experience, Research

**Contact Hours:** 1 other

**Grade Mode:** Standard Letter

**UC 20007 LIFE BEYOND KSU 1 Credit Hour**

(Equivalent to UC 10097) Equips students with the knowledge and tools critical for entering the professional world through research and application of career-related concepts and activities. Reserved for students who have not successfully completed the Destination Kent State: First Year Experience orientation course.

**Prerequisite:** Junior or senior standing.

**Schedule Type:** Lecture

**Contact Hours:** 1 lecture

**Grade Mode:** Standard Letter

**UC 20008 CAREER CONSTRUCTION 1 Credit Hour**

Course prepares students to increase their self-awareness, while equipping them to navigate a lifetime of meaningful occupational realities. Through experiential activities, discussions and reflective exercises, students gain self-understanding and connect academic opportunities to careers and specializations in career fields. Designed for students who have not yet declared a major, are evaluating a career change or are interested in finding personal meaning and mattering in occupational and life decisions.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 1 lecture

**Grade Mode:** Standard Letter

**UC 20009 CAREER AND LIFE PLANNING: CHANGE, CHANCE AND CHOICE 1 Credit Hour**

Navigating a career and life planning can be complex. Course is designed to equip students with knowledge and skills useful in deciding how to use opportunities to build meaningful futures and how to maintain flexibility and adaptability in the work environment. Designed for students who have not yet declared a major or are contemplating or engaged in life and career exploration or change.

**Prerequisite:** UC 20008.

**Schedule Type:** Lecture

**Contact Hours:** 1 lecture

**Grade Mode:** Standard Letter

**UC 20010 CAREER NAVIGATION: CONSTRUCTING POSSIBILITIES 2 Credit Hours**

Navigating a career and life planning can be complex. Course is designed to equip students with self-awareness, knowledge and skills useful in deciding how to use opportunities to build meaningful futures and how to maintain flexibility and adaptability in the work environment. Students learn how to balance planning with uncertainty and navigate a lifetime of meaningful occupational realities. Through experiential activities, discussions and reflective exercises, students gain self-understanding and connect academic opportunities to careers and specializations in career fields. Designed for students who have not yet declare a major, are interested in finding personal meaning and mattering in occupational and life decisions or are contemplating or engaged in life and career exploration or change.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**UC 20095 SPECIAL TOPICS IN UNIVERSITY COLLEGE 1-3 Credit Hours**

(Repeatable for credit) Variable topics course that encourages interdisciplinary study to cover areas not treated adequately in traditional coursework and to make available promptly the new and significant experience of the faculty.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 1-3 lecture

**Grade Mode:** Standard Letter

**UC 20193 VARIABLE TITLE WORKSHOP IN UNIVERSITY COLLEGE 1-3 Credit Hours**

(Repeatable for credit) Workshop focused on variable topics.

**Prerequisite:** None.

**Schedule Type:** Workshop

**Contact Hours:** 1-3 other

**Grade Mode:** Satisfactory/Unsatisfactory

**UC 20201 DESTINATION KENT STATE STUDENT LEADER TRAINING 2 Credit Hours**

Course prepares students to develop a solid foundation in Destination Kent State programs, Kent State knowledge, leadership and communication skills in order to support the Destination Kent State programs. May include Saturday sessions.

**Prerequisite:** UC 10097.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Satisfactory/Unsatisfactory

**UC 20203 THEORY AND PRACTICE OF PEER TUTORING 1 Credit Hour**

Preparation for tutoring in several academic areas. Emphasis on the student as learner. Introduction to current learning theories. Opportunities provided to adapt learning strategy to particular disciplines. Field experience included.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 1 lecture

**Grade Mode:** Standard Letter

**UC 20277 EXPERIENTIAL LEARNING PLUS-1 CREDIT (ELR) 1 Credit Hour**

(Repeatable for maximum 2 credits) Course allows students to add experiential learning to any undergraduate course. The course involves applying the knowledge and skills developed in a course to support local initiative through civic engagement. Students consider the knowledge base of the primary course and/or discipline, and how it is applied in real practice. Reflective activities are used to challenge students to consider larger questions and the interdisciplinary nature of complex problems and solutions. This course is not a stand-alone course - it must be appended to a primary course.

**Prerequisite:** Special approval.

**Schedule Type:** Field Experience, Practical Experience, Research

**Contact Hours:** 1 other

**Grade Mode:** Standard Letter

**Attributes:** Experiential Learning Requirement

**UC 30202 DESTINATION KENT STATE STUDENT SUCCESS LEADER SEMINAR 2 Credit Hours**

(Repeatable a maximum of 4 credits) Required of all student success leaders who are paired with a faculty member in assisting with UC 10097. Students need to meet the minimum requirements for the college or department in which they serve as a student success leader.

**Prerequisite:** UC 20201.

**Schedule Type:** Seminar

**Contact Hours:** 2 other

**Grade Mode:** Satisfactory/Unsatisfactory

**UC 30377 EXPERIENTIAL LEARNING PLUS-1 CREDIT (ELR) 1 Credit Hour**

(Repeatable for credit) Course allows students to add experiential learning to any undergraduate course. The course involves applying the knowledge and skills developed in a course to support local initiative through civic engagement. Students consider the knowledge base of the primary course and/or discipline, and how it is applied in real practice. Reflective activities are used to challenge students to consider larger questions and the interdisciplinary nature of complex problems and solutions. This course is not a stand-alone course - it must be appended to a primary course.

**Prerequisite:** Special approval.

**Schedule Type:** Field Experience, Practical Experience, Research

**Contact Hours:** 1 other

**Grade Mode:** Standard Letter

**Attributes:** Experiential Learning Requirement

**UC 31000 MCNAIR RESEARCH METHODS I 1 Credit Hour**

Introduction to research methods in the context of the McNair Scholars Program. Topics include selection of a research mentor, research ethics, finding, collecting and citing empirical sources. Registration is restricted to McNair Scholars.

**Prerequisite:** Special approval.

**Schedule Type:** Lecture

**Contact Hours:** 1 lecture

**Grade Mode:** Satisfactory/Unsatisfactory

**UC 31001 MCNAIR RESEARCH METHODS II 1 Credit Hour**

Research methods in the context of the McNair Scholars Program. Topics include developing a question, various design and data collection approaches, writing the research paper. Registration is restricted to McNair Scholars.

**Prerequisite:** Special approval.

**Schedule Type:** Lecture

**Contact Hours:** 1 lecture

**Grade Mode:** Satisfactory/Unsatisfactory

**UC 40010 MCNAIR SCHOLARS SEMINAR I 1 Credit Hour**

McNair Scholars are required to take this course after participation in Summer Research Institute. The course provides training related to the graduate school application process. Registration is restricted to McNair Scholars.

**Prerequisite:** Special approval.

**Schedule Type:** Seminar

**Contact Hours:** 1 lecture

**Grade Mode:** Satisfactory/Unsatisfactory

**UC 40201 DESTINATION KENT STATE STUDENT LEADER TRAINING 3 Credit Hours**

Experienced student leaders for Destination Kent State selected to be trainers are required to take this course. Course provides training and skill development for assisting with training future Destination Kent State student leaders.

**Prerequisite:** UC 30202.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**UC 40202 DESTINATION KENT STATE INTERN SEMINAR 3 Credit Hours**

Experienced student success leaders selected to be student interns are required to take this course. Course extends training and skill development for students who assume responsibility for assisting student success leaders.

**Prerequisite:** UC 30202.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**UC 40477 EXPERIENTIAL LEARNING PLUS-1 CREDIT (ELR) 1 Credit Hour**

(Repeatable for credit) Course allows students to add experiential learning to any undergraduate course. The course involves applying the knowledge and skills developed in a course to support local initiative through civic engagement. Students consider the knowledge base of the primary course and/or discipline, and how it is applied in real practice. Reflective activities are used to challenge students to consider larger questions and the interdisciplinary nature of complex problems and solutions. This course is not a stand-alone course - it must be appended to a primary course.

**Prerequisite:** Special approval.

**Schedule Type:** Field Experience, Practical Experience, Research

**Contact Hours:** 1 other

**Grade Mode:** Standard Letter

**Attributes:** Experiential Learning Requirement

**UC 41010 MCNAIR SCHOLARS SEMINAR II 1 Credit Hour**

McNair Scholars are required to take this course after participation in Summer Research Institute. This course provides training related to the graduate school application process. Registration is restricted to McNair Scholars.

**Prerequisite:** Special approval.

**Schedule Type:** Seminar

**Contact Hours:** 1 lecture

**Grade Mode:** Satisfactory/Unsatisfactory

## University Libraries (LIB)

### Urban Design (UD)

**UD 55705 FORCES THAT SHAPE CITIES 1-3 Credit Hours**

(Repeatable for maximum 3 credit hours) Course examines the forces that have shaped urban form through history, how they impact our cities today and the challenges they will pose for the future.

**Prerequisite:** Graduate standing.

**Schedule Type:** Seminar

**Contact Hours:** 1-3 other

**Grade Mode:** Standard Letter

**UD 60701 URBAN DESIGN STUDIO I 3-6 Credit Hours**

Introduction to urban design and its relationship to other design disciplines through the analysis of neighborhoods and the definition of comprehensive area improvement programs.

**Prerequisite:** Graduate standing.

**Schedule Type:** Studio

**Contact Hours:** 6-10 other

**Grade Mode:** Standard Letter

**UD 60702 URBAN DESIGN STUDIO II 3-6 Credit Hours**

Urban design explorations of the formal relationships between buildings, open spaces and street sin the development of high density, mixed-use projects.

**Prerequisite:** UD 60701; and graduate standing.

**Schedule Type:** Studio

**Contact Hours:** 6-10 other

**Grade Mode:** Standard Letter

**UD 60703 URBAN DESIGN STUDIO III 3-6 Credit Hours**

Design of a comprehensive redevelopment strategy and implementation strategies for an urban area of diverse existing character.

**Prerequisite:** UD 55705 and 60702 and 65102; and graduate standing.

**Schedule Type:** Studio

**Contact Hours:** 3-6 other

**Grade Mode:** Standard Letter

**UD 60705 MASTER PROJECT IN URBAN DESIGN PREPARATION 1-3 Credit Hours**

(Repeatable for maximum three credit hours) Development of a rationale and structure for the independent design project to be completed in the final semester of the program.

**Prerequisite:** UD 60703; and graduate standing.

**Schedule Type:** Seminar

**Contact Hours:** 1-3 other

**Grade Mode:** Standard Letter-IP

**UD 60798 MASTERS PROJECT IN URBAN DESIGN 6-9 Credit Hours**

Independent urban design project, completed under the direction of an individual advisor selected from the graduate faculty.

**Prerequisite:** UD 60703 and 60705; and graduate standing.

**Schedule Type:** Master's Project

**Contact Hours:** 10-15 other

**Grade Mode:** Standard Letter-IP

**UD 65101 COMMUNITY DEVELOPMENT PROCESS 1-3 Credit Hours**

Advanced course on comprehensive community development. Case study analysis, qualitative research and work with community initiatives are required.

**Prerequisite:** UD 55705 and 60703 and 65102; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 1-3 lecture

**Grade Mode:** Standard Letter

**UD 65102 URBAN SYSTEMS 1-3 Credit Hours**

Introduction to urban systems in its socio-economic, environmental and engineering aspects: residential fabric, commercial sector, open space network, transportation systems, and infrastructures.

**Prerequisite:** Graduate standing.

**Schedule Type:** Seminar

**Contact Hours:** 1-3 other

**Grade Mode:** Standard Letter



**UD 65632 URBAN ECOLOGICAL SYSTEMS 3 Credit Hours**

Study of how ecological systems in highly anthropocentric environments provide necessary ecological services. Emphasized is the role that water plays in activating the supporting, provisioning, regulating, and cultural ecosystem services required for human well-being.

**Prerequisite:** UD 65102; and graduate standing.

**Schedule Type:** Seminar

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**UD 66995 SPECIAL TOPICS IN URBAN DESIGN 1-4 Credit Hours**

(Repeatable for credit) Special topics in urban design.

**Prerequisite:** Graduate standing.

**Schedule Type:** Seminar

**Contact Hours:** 1-4 other

**Grade Mode:** Standard Letter

## User Experience Design (UXD)

**UXD 20001 INTRODUCTION TO USER EXPERIENCE DESIGN 3 Credit Hours**

Students explore the context within which User Experience Design exists and the fundamental research that explains human behavior and how that research informs design decisions. Students are also introduced to the basic design processes and deliverables employed by UXD professionals.

**Prerequisite:** Advertising, communication studies, digital media production, digital sciences, journalism, photography, public relations, user experience design or visual communication design major or minor.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**UXD 40101 INFORMATION ARCHITECTURE 3 Credit Hours**

Introduction to the fundamental concepts and practices of information architecture (IA). Students develop practical skills for comparing, analyzing, critiquing and design of IA. Major topics include organization, navigation, labeling and search systems for web and mobile architectures.

**Prerequisite:** UXD 20001; and user experience design minor.

**Schedule Type:** Laboratory, Lecture, Combined Lecture and Lab

**Contact Hours:** 2 lecture, 2 lab

**Grade Mode:** Standard Letter

**UXD 40104 USABILITY 3 Credit Hours**

Provides a conceptual and practical overview of the processes and methods of usability testing such as development of test protocols, goals, facilitation, analysis and reporting of results. Actual usability tests are performed, using quantitative and qualitative methods and employing emerging software tools to facilitate data collection and analysis.

**Prerequisite:** UXD 20001; and user experience design minor.

**Schedule Type:** Laboratory, Lecture, Combined Lecture and Lab

**Contact Hours:** 2 lecture, 2 lab

**Grade Mode:** Standard Letter

**UXD 41095 SPECIAL TOPICS IN USER EXPERIENCE DESIGN 1-3 Credit Hours**

(Repeatable for credit) Topics could include current or emerging issues in user experience design. Topics will be announced in schedule of classes. Offered irregularly as resources and opportunities permit.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 1-3 lecture

**Grade Mode:** Standard Letter

**UXD 41096 INDIVIDUAL INVESTIGATION IN USER EXPERIENCE****DESIGN 1-3 Credit Hours**

(Repeatable for credit) Research or individual investigation in areas not covered in the existing curriculum for baccalaureate level students at or above the junior level.

**Prerequisite:** Special approval.

**Schedule Type:** Individual Investigation

**Contact Hours:** 3-9 other

**Grade Mode:** Standard Letter-IP

**UXD 60001 USER EXPERIENCE DESIGN PRINCIPLES AND CONCEPTS 3 Credit Hours**

(Slashed with UXD 80001) Students explore the context in which User Experience Design exists and the various methods employed by designers in various fields related to design research, the generation of ideas and implementation of designs. Students are introduced to methods of design evaluation and to the conceptual framework of the related curricula.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**UXD 60002 USER EXPERIENCE DESIGN IN PRACTICE 3 Credit Hours**

Students learn and employ methods for engaging in creative problem solving. Introduce students to design research methods and current research on human behavior as it applies to user experience design. A core set of design deliverables are examined. Students begin to develop individual portfolio materials.

**Prerequisite:** Graduate standing.

**Pre/corequisite:** UXD 60001.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**UXD 60101 INFORMATION ARCHITECTURE I 3 Credit Hours**

(Slashed with UXD 80101) Introduction to the fundamental concepts and practices of information architecture (IA). Students develop practical skills for comparing, analyzing, critiquing and designing information architectures. Major topics include organization, navigation, labeling, search and other core IA concepts. Students learn to create blueprints, wireframes, process flows and other documents used to communicate an information architecture design.

**Prerequisite:** UXD 60001 and UXD 60002 with a minimum C grade; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**UXD 60102 PRINCIPLES OF INTERACTION 3 Credit Hours**

This course provides students with an overview of interaction design principles and concepts. It is divided into five modules.

**Prerequisite:** UXD 60001 and UXD 60002; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**UXD 60103 RESEARCHING THE USER EXPERIENCE I 3 Credit Hours**

(Slashed with UXD 80103) Design research seeks to understand user needs, goals and tasks. Deals with research methods for human-centered design of information-rich artifacts and experiences. Covers interviews, surveys, diary studies and other methods applicable to the formative stages of the design process. Students learn to distill research findings into audience segments, user profiles, personas, scenarios and other documents that model user behavior.

**Prerequisite:** UXD 60001 and UXD 60002 with a minimum C grade; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**UXD 60104 USABILITY I 3 Credit Hours**

(Slashed with UXD 80104) Provides a conceptual and practical overview of the processes and methods of usability testing, such as Think Aloud protocols, performance measurements and eye-tracking analysis. Actual usability testing is performed, using quantitative and qualitative methods and employing current and emerging software tools to facilitate data collection and analysis.

**Prerequisite:** UXD 60001 and UXD 60002; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**UXD 60106 CONTENT STRATEGY I 3 Credit Hours**

(Slashed with UXD 80106) Introduces the field of content strategy and its relationship to user experience design. Includes history and practices of content strategy, how to analyze user needs for content, the production of written materials related to content strategy and content audits and governance models. This course is the conceptual basis behind content strategy.

**Prerequisite:** UXD 60001 and UXD 60002; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**UXD 60111 INFORMATION ARCHITECTURE II 3 Credit Hours**

(Slashed with UXD 80111) This course will cover current topics in architecting for a changing web environment. Conceptual and technical aspects of Web 2.0 and Rich Internet Applications (RIA) have created the need for different types of design deliverables and usability considerations. In order to understand how to architect for Web 2.0, we must come to an understanding of what it is and how it works at least at a basic level. In addition, design tools to aid information architects are becoming more advanced and can aid IAs, making them more effective and efficient. These tools will be covered in depth.

**Prerequisite:** UXD 60001 and UXD 60002; and graduate standing.

**Pre/corequisite:** UXD 60101.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**UXD 60112 INTERACTION IN PRACTICE 3 Credit Hours**

This course provides students with experience planning, designing and prototyping interactions. Students will learn common interaction design (IxD) methodologies, what is expected of interaction designers, and what deliverables a designer typically provides. Students will practice interaction design by specifying content organization, hierarchy and user journeys for a mobile application in wireframe form. Students will create a functional prototype, building in the basic functionality needed for navigation and process funnels. Finally, students will test their prototypes formally.

**Prerequisite:** UXD 60001 and UXD 60002; and graduate standing.

**Pre/corequisite:** UXD 60102.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**UXD 60113 RESEARCHING USER EXPERIENCE II 3 Credit Hours**

(Slashed with UXD 80113) In order to design and develop effective user interfaces, task analysis process and theory are explored and applied via principles drawn from anthropology, ethnography, cognitive psychology, document and instruction systems design and market research. Practical techniques and methodologies are presented to improve interface design through all phases of the design process.

**Prerequisite:** UXD 60001 and UXD 60002; and graduate standing.

**Pre/corequisite:** UXD 60103.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**UXD 60114 USABILITY II 3 Credit Hours**

(Slashed with UXD 80114) Provides students with an understanding of qualitative and quantitative research methods appropriate for conducting advanced studies of human interaction with computers. In addition, students learn how to evaluate, purchase, implement and operate equipment for usability labs in a manner consistent with research methods.

**Prerequisite:** UXD 60001 and UXD 60002; and graduate standing.

**Pre/corequisite:** UXD 60104.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**UXD 60117 USER EXPERIENCE DESIGN LEADERSHIP 3 Credit Hours**

As User Experience Design professionals are increasingly sought out not only to solve specific experience problems but also for business strategies, this course will teach students business terms and principles to become viable leaders within their organizations. Students will learn business concepts like market forces, business models innovation and design, basic accounting and finance, and how to interact with their colleagues as leaders.

**Prerequisite:** UXD 60001 and UXD 60002; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**UXD 60118 ACCESSIBILITY EVALUATION AND UNIVERSAL DESIGN  
3 Credit Hours**

This course will provide user experience researchers and designers with the skills to evaluate software and hardware for accessibility, as well as an understanding of the principles of universal design and how they guide and influence the design of digital experiences.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**UXD 60691 SEMINAR IN USER EXPERIENCE DESIGN 1-3 Credit Hours**

(Repeatable for credit) Advanced research by students who are qualified to examine problems of certain special areas related to concentrations of study in user experience design.

**Prerequisite:** Graduate standing.

**Schedule Type:** Seminar

**Contact Hours:** 1-3 other

**Grade Mode:** Standard Letter

**UXD 60693 VARIABLE TITLE WORKSHOP IN USER EXPERIENCE DESIGN 1-3 Credit Hours**

(Repeatable for credit) Intensive examination of special topics of interest to those involved in user experience design. Maximum number of workshop credits for the MS-UXD major is 4 semester hours.

**Prerequisite:** Graduate standing.

**Schedule Type:** Workshop

**Contact Hours:** 1-3 other

**Grade Mode:** Satisfactory/Unsatisfactory

**UXD 60792 ELECTIVE INTERNSHIP IN USER EXPERIENCE DESIGN 2-3 Credit Hours**

Supervised work experience in user experience design of a professional nature of not less than 100 clock hours (for 2 credit hours) or 150 clock hours (for 3 credit hours) with directed readings and preparation of a paper.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Practical Experience

**Contact Hours:** 6-9 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**UXD 61095 SPECIAL TOPICS IN USER EXPERIENCE DESIGN 1-3 Credit Hours**

(Repeatable for credit) Offered irregularly as resources and or opportunities permit. Topics could include current or emerging issues in user experience design.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 1-3 lecture

**Grade Mode:** Standard Letter

**UXD 61096 INDIVIDUAL INVESTIGATION IN USER EXPERIENCE DESIGN 1-3 Credit Hours**

(Repeatable for credit) Research or individual investigation in areas not covered by the existing curriculum for master's level students. Maximum 6 credit towards the user experience design major within the master of science degree.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Individual Investigation

**Contact Hours:** 3-9 other

**Grade Mode:** Standard Letter-IP

**UXD 66080 PROFESSIONAL PORTFOLIO DESIGN AND ASSESSMENT 3 Credit Hours**

Students complete the assembly and evaluation of their work throughout the User Experience Design program in the form of a professional portfolio that will be used in efforts to gain employment or freelance work. Evaluation is done through critique by User Experience Design faculty and by peers.

**Prerequisite:** LIS 60636, UXD 60001, UXD 60002, UXD 60101, UXD 60104, UXD 60106; and a minimum 3.000 overall GPA; and graduate standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**UXD 66092 MASTER'S INTERNSHIP IN USER EXPERIENCE DESIGN 3 Credit Hours**

Supervised work experience of an advanced professional nature that concentrates on developing skills in areas of user experience design and integrates their knowledge from all UXD courses and experiences. Students must have completed a minimum of 30 credit hours towards the user experience design major prior to registration.

**Prerequisite:** LIS 60636, UXD 60001, UXD 60002, UXD 60101, UXD 60103, UXD 60104 and UXD 60106; and minimum 3.000 overall GPA; and graduate standing; and special approval.

**Schedule Type:** Practical Experience

**Contact Hours:** 9 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**UXD 66098 MASTERS PROJECT IN USER EXPERIENCE DESIGN 3 Credit Hours**

Provides a means for the application of the knowledge, research and competencies learned through study in user experience design to the development of an information system, product, setting or service. Cumulative GPA of 3.000 is required prior to enrolling in the course. Students must have completed 30 credit hours towards the MS-UXDE program prior to registration.

**Prerequisite:** LIS 60636, UXD 60001, UXD 60002, UXD 60101, UXD 60103, UXD 60104 and UXD 60106; and minimum 3.000 overall GPA; and graduate standing; and special approval.

**Schedule Type:** Master's Project

**Contact Hours:** 3 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**UXD 66198 MASTER'S RESEARCH PAPER IN USER EXPERIENCE DESIGN 3 Credit Hours**

Under the advisement of a faculty member, students will complete a research paper that serves as a culminating experience for the M.S.-UXD degree. Students must have completed 30 credit hours towards the MS-UXDE program prior to registration.

**Prerequisite:** LIS 60636, UXD 60001, UXD 60002, UXD 60101, UXD 60103, UXD 60106; and minimum 3.000 overall GPA; and graduate standing; and special approval.

**Schedule Type:** Master's Project

**Contact Hours:** 3 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**UXD 66199 THESIS I 2-6 Credit Hours**

Thesis students must register for a total of 6 hours, 2 to 6 hours in a single semester distributed over several semesters if desired. Students must have completed 30 credit hours towards the MS-UXDE program prior to registration.

**Prerequisite:** LIS 60636, UXD 60001, UXD 60002, UXD 60101, UXD 60103, UXD 60104 and UXD 60106; a minimum 3.000 overall GPA; and graduate standing.

**Schedule Type:** Masters Thesis

**Contact Hours:** 2-6 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**UXD 66299 THESIS II 2 Credit Hours**

Thesis students must continue registration each semester until all degree requirements are met.

**Prerequisite:** UXD 66199; and graduate standing; and special approval.

**Schedule Type:** Masters Thesis

**Contact Hours:** 2 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**UXD 80001 USER EXPERIENCE DESIGN PRINCIPLES AND CONCEPTS 3 Credit Hours**

(Slashed with UXD 60120) Students explore the context in which User Experience Design exists and the various methods employed by designers in various fields related to design research, the generation of ideas and implementation of designs. Students are introduced to methods of design evaluation and to the conceptual framework of the related curricula.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**UXD 80002 USER EXPERIENCE DESIGN IN PRACTICE 3 Credit Hours**

(Slashed with UXD 60002) Students learn and employ methods for engaging in creative problem solving. Introduce students to design research methods and current research on human behavior as it applies to user experience design. A core set of design deliverables are examined. Students begin to develop individual portfolio materials.

**Prerequisite:** UXD 80001 with a minimum C grade; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**UXD 80101 INFORMATION ARCHITECTURE I 3 Credit Hours**

(Slashed with UXD 60101) Introduction to the fundamental concepts and practices of information architecture (IA). Students develop practical skills for comparing, analyzing, critiquing and designing information architectures. Major topics include organization, navigation, labeling, search and other core IA concepts. Students learn to create blueprints, wireframes, process flows and other documents used to communicate an information architecture design.

**Prerequisite:** UXD 80001 and UXD 80002 with a minimum C grade; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**UXD 80103 RESEARCHING THE USER EXPERIENCE I 3 Credit Hours**

(Slashed with UXD 60103) Design research seeks to understand user needs, goals and tasks. Deals with research methods for human-centered design of information-rich artifacts and experiences. Covers interviews, surveys, diary studies and other methods applicable to the formative stages of the design process. Students learn to distill research findings into audience segments, user profiles, personas, scenarios and other documents that model user behavior.

**Prerequisite:** UXD 80001 and UXD 80002 with a minimum C grade; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**UXD 80104 USABILITY I 3 Credit Hours**

(Slashed with UXD 60104) Provides a conceptual and practical overview of the processes and methods of usability testing, such as Think Aloud protocols, performance measurements and eye-tracking analysis. Actual usability testing is performed, using quantitative and qualitative methods and employing current and emerging software tools to facilitate data collection and analysis.

**Prerequisite:** UXD 80001 and UXD 80002; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**UXD 80106 CONTENT STRATEGY I 3 Credit Hours**

(Slashed with UXD 60106) Introduces the field of content strategy and its relationship to user experience design. Includes history and practices of content strategy, how to analyze user needs for content, the production of written materials related to content strategy, and content audits and governance models. This course is the conceptual basis behind content strategy.

**Prerequisite:** UXD 80001; and UXD 80002; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**UXD 80111 INFORMATION ARCHITECTURE II 3 Credit Hours**

(Slashed with UXD 60111) Web site design from emerging directions, such as the separation of content from presentation, with e.g., the use of Cascading Style Sheets (CSS) for formatting web-based documents. The course includes considerations of making web sites compliant with federal regulations or other standards and validation for various markup guidelines.

**Prerequisite:** Minimum C grade in UXD 80001, UXD 80002 and UXD 80101; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**UXD 80113 RESEARCHING THE USER EXPERIENCE II 3 Credit Hours**

(Slashed with UXD 60113) In order to design and develop effective user interfaces, task analysis process and theory are explored and applied via principles drawn from anthropology, ethnography, cognitive psychology, document and instruction systems design and market research. Practical techniques and methodologies are presented to improve interface design through all phases of the design process.

**Prerequisite:** Minimum C grade in UXD 80001, UXD 80002 and UXD 80103; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter



**UXD 80114 USABILITY II 3 Credit Hours**

(Slashed with UXD 60114) Provides students with an understanding of qualitative and quantitative research methods appropriate for conducting advanced studies of human interaction with computers. In addition, students learn how to evaluate, purchase, implement and operate equipment for usability labs in a manner consistent with research methods.

**Prerequisite:** UXD 80001, UXD 80002 and UXD 80104; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**UXD 80691 SEMINAR IN USER EXPERIENCE DESIGN 1-3 Credit Hours**

(Repeatable for credit) Advanced research by students who are qualified to examine problems of certain special areas related to concentrations of study in user experience design.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Seminar

**Contact Hours:** 1-3 other

**Grade Mode:** Standard Letter

**UXD 81095 SPECIAL TOPICS IN USER EXPERIENCE DESIGN 1-3 Credit Hours**

(Repeatable for credit) Offered irregularly as resources and or opportunities permit. Topics could include current or emerging issues in user experience design.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 1-3 lecture

**Grade Mode:** Standard Letter

**UXD 81096 INDIVIDUAL INVESTIGATION IN USER EXPERIENCE DESIGN 1-3 Credit Hours**

Research or individual investigation for doctoral level students.

**Prerequisite:** Doctoral standing; and special approval.

**Schedule Type:** Individual Investigation

**Contact Hours:** 3-9 other

**Grade Mode:** Standard Letter-IP

## Veterinary Technology (VTEC)

**VTEC 10001 INTRODUCTION TO VETERINARY TECHNOLOGY 2 Credit Hours**

Introduction to veterinary technician's career: medical terminology, career choices, occupational safety, human-animal bond, pet loss, euthanasia, animal husbandry and basic nutrition, breed identification, basic animal behavior.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**VTEC 10002 VETERINARY NURSING I 3 Credit Hours**

Introduction to animal nursing: record keeping, kennel sanitation, animal restraint, syringe and needle identification/handling, injection techniques, physical exams, grooming and administration of medications. Lecture two hours, laboratory 3 hours weekly.

**Prerequisite:** Admission to technical study; and veterinary technology major.

**Schedule Type:** Laboratory, Lecture, Combined Lecture and Lab

**Contact Hours:** 2 lecture, 3 lab

**Grade Mode:** Standard Letter

**VTEC 10204 CLINICAL LABORATORY I 3 Credit Hours**

Introduction to clinical laboratory: equipment and equipment maintenance; internal and external parasites; urinalysis. Lecture 2 hours, laboratory 3 hours weekly.

**Prerequisite:** Veterinary technology major.

**Schedule Type:** Laboratory, Lecture, Combined Lecture and Lab

**Contact Hours:** 2 lecture, 3 lab

**Grade Mode:** Standard Letter

**VTEC 10205 VETERINARY NURSING II 3 Credit Hours**

Clinical application off-site. Emphasis on skills from VTEC 10002; physical exam, medications, blood vessels catheterization, venipuncture; fluid therapy, wound care, patient rehabilitation and physical therapy, first aid, bandaging and CPR.

**Prerequisite:** Minimum C grade in BSCI 10005 and CHEM 10050 and HED 14020 and VTEC 10002 and VTEC 10204.

**Pre/corequisite:** VTEC 10001.

**Schedule Type:** Laboratory, Lecture, Combined Lecture and Lab

**Contact Hours:** 2 lecture, 3 lab

**Grade Mode:** Standard Letter

**VTEC 10206 PHARMACOLOGY 2 Credit Hours**

Regulations controlling the use of drugs and biologicals, classifications and mechanisms of action of pharmaceuticals, dosage calculations, labeling, packaging and dispensing of veterinary products. Lecture 2 hours weekly.

**Prerequisite:** BSCI 10005 and BSCI 10110 and CHEM 10052 and CHEM 10053 and HED 14020 and VTEC 10001 and VTEC 10002 and VTEC 10204.

**Pre/corequisite:** VTEC 10205.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**VTEC 20008 CLINICAL LABORATORY II 3 Credit Hours**

Continuation and application of laboratory skills from Clinical Laboratory I; hematology, serology, cytology and other laboratory skills. Lecture 2 hours, laboratory 3 hours weekly.

**Prerequisite:** Minimum C grade in BSCI 10005 and CHEM 10050 and VTEC 10002 and VTEC 10204.

**Pre/corequisite:** VTEC 10001 and VTEC 10205.

**Schedule Type:** Laboratory, Lecture, Combined Lecture and Lab

**Contact Hours:** 2 lecture, 3 lab

**Grade Mode:** Standard Letter

**VTEC 20009 VETERINARY NURSING III 3 Credit Hours**

Continuing nursing skills/techniques emphasizing large animal species: restraint, venipuncture, behavior, breeds, feedstuffs, food safety, meds, preventive care, surgical procedures, lameness. Lecture 2 hours, laboratory 3 hours weekly. Pre.corequisite: VTEC 10206.

**Prerequisite:** BSCI 10110 and CHEM 10052 and CHEM 10053 and VTEC 10001 and VTEC 10002 and VTEC 10204 and VTEC 10205 and VTEC 20008.

**Schedule Type:** Laboratory, Lecture, Combined Lecture and Lab

**Contact Hours:** 2 lecture, 3 lab

**Grade Mode:** Standard Letter



**VTEC 20010 IMAGING TECHNIQUES 3 Credit Hours**

Principles and application of the production of X-rays, processing, radiation safety, storage, patient positioning and other imaging techniques. Lecture 2 hours, laboratory 3 hours weekly.

**Prerequisite:** BSCI 10005 and BSCI 10110 and CHEM 10052 and CHEM 10053 and VTEC 10001 and VTEC 10002 and VTEC 10204 and VTEC 10205 and VTEC 20008.

**Pre/corequisite:** VTEC 10206.

**Schedule Type:** Laboratory, Lecture, Combined Lecture and Lab

**Contact Hours:** 2 lecture, 3 lab

**Grade Mode:** Standard Letter

**VTEC 20212 SURGERY AND ANESTHESIA 3 Credit Hours**

Principles and application of the use of anesthetics, patient monitoring, dental prophylaxis, pre-surgery preparation, post-surgical patient care, sterilization, surgical preparation and assisting and equipment maintenance. Lecture 2 hours, laboratory 3 hours weekly.

**Prerequisite:** Minimum C grade in BSCI 10005 and BSCI 10110 and CHEM 10052 and CHEM 10053 and VTEC 10001 and VTEC 10002 and VTEC 10204 and VTEC 10205 and VTEC 20008.

**Pre/corequisite:** VTEC 10206.

**Schedule Type:** Laboratory, Lecture, Combined Lecture and Lab

**Contact Hours:** 2 lecture, 3 lab

**Grade Mode:** Standard Letter

**VTEC 20213 NUTRITION AND DISEASE 2 Credit Hours**

Principles of the disease process, disease control and prevention of common diseases of domestic animals. Nutrition principles especially for clinical diseases will be covered. Lecture 2 hours weekly.

**Prerequisite:** BSCI 20021 and VTEC 20009 and VTEC 20010 and VTEC 20212.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**VTEC 20214 VETERINARY NURSING AND HOSPITAL PROCEDURES 3 Credit Hours**

Nursing procedures for laboratory and animal exotic procedures; procedures by a veterinary technician in a hospital environment including office and computer application. Lecture 1 hour, laboratory 6 hours weekly including computer applications.

**Prerequisite:** BSCI 20021 and VTEC 20009 and VTEC 20010 and VTEC 20212.

**Schedule Type:** Laboratory, Lecture, Combined Lecture and Lab

**Contact Hours:** 1 lecture, 6 lab

**Grade Mode:** Standard Letter

**VTEC 20215 VETERINARY OFFICE APPLICATIONS 1 Credit Hour**

Overview of veterinary practice management including veterinary medical record keeping, marketing, staff responsibilities, interoffice communications and public relation techniques. Automated veterinary office processing and record-keeping. Computer hardware and software commonly found in small to mid-sized veterinary practices described along with office procedures and work flow.

**Prerequisite:** BSCI 10005, VTEC 10001, VTEC 10002, VTEC 10204.

**Schedule Type:** Laboratory

**Contact Hours:** 3 lab

**Grade Mode:** Standard Letter

**VTEC 20216 LABORATORY AND EXOTIC ANIMAL MEDICINE 2 Credit Hours**

Introduction to laboratory medicine and management, including basic husbandry, common diseases, and treatment protocols for various laboratory animal species, pocket pets, avian and exotic species. The student will learn scientific names and primary use of common laboratory animals and will practice restraint, sexing, appropriate methods of venipuncture, administration of medications, and anesthetic techniques.

**Prerequisite:** VTEC 10001, VTEC 10205, VTEC 10206, VTEC 20008, VTEC 20010, VTEC 20212.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 1 lecture, 3 lab

**Grade Mode:** Standard Letter

**VTEC 20392 PRACTICUM IN VETERINARY HOSPITAL (ELR) 5 Credit Hours**

(Repeatable for credit) Students gain practical experience in veterinary clinic or approved clinical site to focus on mastery of all clinical skills needed for this career.

**Prerequisite:** BSCI 20021 and VTEC 20009 and VTEC 20010 and VTEC 20212.

**Corequisite:** VTEC 20213 and VTEC 20214.

**Schedule Type:** Practical Experience

**Contact Hours:** 5 other

**Grade Mode:** Standard Letter

**Attributes:** Experiential Learning Requirement

## Visual Communication Design (VCD)

**VCD 13000 DESIGN: PRINCIPLES, PROCESSES AND PRACTICE 3 Credit Hours**

Introduction to the principles, processes and applications of design. Students explore the language of design, how it is influenced by form, content and context. Focus on historical overview, design theory, brainstorming, ideation, two-dimensional design, environmental design, typography, illustration, photography and interactive media.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**VCD 13001 INTRODUCTION TO VISUAL COMMUNICATION DESIGN STUDIO 3 Credit Hours**

Introduction to basic design processes using research, writing conceptual problem solving and format organization of two dimensional space utilizing type and imagery.

**Prerequisite:** Photography major, visual communication design major, or design minor.

**Schedule Type:** Studio

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**VCD 14001 VISUAL DESIGN LITERACY 3 Credit Hours**

Examines the topics visual communication design theory, two-dimensional graphic design, environmental graphic design, typography, illustration, photographic illustration, and interactive media. Introduction to how and why professionals in the field of visual communication design create meaning and context through their work. Students explore the language of visual communication, how it is influenced by form, content and context.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**VCD 14002 COMMUNICATING WITH COLOR 3 Credit Hours**

Introduction to color as it applies to fields of design and related areas. Topics covered include the vocabulary of color, the primary elements of color theory, color systems, color printing, color in film and online, and the effects of lighting on color. Students gain an appreciation for how color influences design and commerce through an understanding of basic practices of color forecasting and a study of how color perception is influenced by cultural differences.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**VCD 17000 COLOR: THEORY AND APPLICATION 3 Credit Hours**

Color and its interaction through a series of nonapplied (abstract) exercises.

**Prerequisite:** None.

**Schedule Type:** Studio

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**VCD 18002 PHOTOGRAPHY II 3 Credit Hours**

Course further develops basic technical information and introduces studio lighting techniques and protocols. The class is studio-based and introduces and explores gaining command of continuous lighting source (LED), composition, studio practices: The technical information will be supplemented with a series of photographic assignments that apply this information.

**Prerequisite:** CCI 12001; and visual communication design major or photography major or minor.

**Schedule Type:** Studio

**Contact Hours:** 6 other

**Grade Mode:** Standard Letter

**VCD 20000 BASIC COMPUTER-GRAPHIC DESIGN AND ILLUSTRATION 3 Credit Hours**

Introduction of basic operating system of Macintosh hardware and major design software for creation of layouts, vector and raster graphics. Explore production and peripheral equipment including scanners and printers.

**Prerequisite:** Visual communication design or photography majors.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 2 lecture, 2 lab

**Grade Mode:** Standard Letter

**VCD 20003 INTERMEDIATE COMPUTER-GRAPHIC DESIGN/ILLUSTRATION 3 Credit Hours**

A technical, studio course designed to teach the fundamentals of Web design in GoLive and Flash. Material is presented throughout a series of demos, exercises and projects.

**Prerequisite:** VCD 20000.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 2 lecture, 2 lab

**Grade Mode:** Standard Letter

**VCD 20010 INTRODUCTION TO DESIGN RESEARCH 3 Credit Hours**

Introduction to research methods used in the professional practice of visual communication design. Students are exposed to strategies, tactics and frameworks used in the creation of design artifacts.

**Prerequisite:** VCD 23001; and visual communication design or photography major or information design minor.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**VCD 20096 PHOTO-ILLUSTRATION SOPHOMORE PORTFOLIO REVIEW 1 Credit Hour**

Visual Communication Design faculty review student portfolios of work from prerequisite courses. A diagnostic examination to evaluate technical proficiency and formal organizational ability also is included in this review.

**Prerequisite:** VCD 13000 or VCD 14001; and VCD 13001; and VCD 23001; and VCD 18002; and VCD 28003; and photography major.

**Schedule Type:** Individual Investigation

**Contact Hours:** 3 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**VCD 20196 VCD SOPHOMORE PORTFOLIO REVIEW 1 Credit Hour**

Projects from Visual Communication Design freshman- and sophomore-level studio courses will comprise a portfolio to be critiqued by VCD faculty. A successful portfolio review will determine if the student is to advance in the BA program or enter the BFA program.

**Prerequisite:** VCD 22000 and VCD 23001 with a minimum C grade; and visual communication design major.

**Corequisite:** VCD 33000 and VCD 22001.

**Schedule Type:** Individual Investigation

**Contact Hours:** 1 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**VCD 21000 INTRODUCTION TO WEB DESIGN 3 Credit Hours**

In this course students will learn basic web design, using HTML (Hypertext Markup Language) and CSS (Cascading Style Sheets). Students are introduced to planning, designing and executing effective web pages, including developing web pages using web standards compliant HTML and CSS; leveraging CSS to style, enhance, organize and prioritize content; working with a wide range of content types and multimedia; and, producing small, functioning, multi-page websites.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**VCD 22000 DESIGN/ILLUSTRATION TECHNIQUES I 3 Credit Hours**

Introductory course in design/illustration. Object drawing with emphasis toward rendering materials and techniques used in reproduction, perspective, spacial organization and use of reference material.

**Prerequisite:** VCD 13000 and VCD 13001 with a minimum B- grade; and visual communication design major or design minor.

**Schedule Type:** Studio

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**VCD 22001 DESIGN/ILLUSTRATION TECHNIQUES II 3 Credit Hours**

Continuation of Design Illustration Techniques I with expanded emphasis on black and white media used for illustration purposes with emphasis on media capable of reproduction by traditional printing methods.

**Prerequisite:** VCD 22000 and 23001; and visual communication design major.

**Schedule Type:** Studio

**Contact Hours:** 6 other

**Grade Mode:** Standard Letter

**VCD 23000 INTERMEDIATE STUDIO SKILLS:GRAPHIC DESIGN AND ILLUSTRATION 3 Credit Hours**

A technical lecture course designed to outline the process and describe and discuss the technologies and vocabulary used in the printing industry.

**Prerequisite:** VCD 23001.

**Schedule Type:** Studio

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**VCD 23001 TYPOGRAPHY I 3 Credit Hours**

Historical study of letter forms and their application to the development of new forms. Execution and use of letter forms as design elements in layout and illustration using fundamental typographic theories and rules of spatial organization.

**Prerequisite:** VCD 13000; and VCD 13001 with a minimum B- grade; and photography major or visual communication design major or design minor.

**Schedule Type:** Studio

**Contact Hours:** 6 other

**Grade Mode:** Standard Letter

**VCD 28003 PHOTO TECHNOLOGY 3 Credit Hours**

Designed to give students an intermediate working knowledge of the digital photographic workflow, including intermediate Photoshop editing skills, overview of Adobe Raw and Bridge, color calibration and color management. Students will complete a series of photographic assignments to which they will apply this information.

**Prerequisite:** CCI 12001; and visual communication design major or photography major or minor.

**Schedule Type:** Studio

**Contact Hours:** 6 other

**Grade Mode:** Standard Letter

**VCD 28004 PHOTOGRAPHIC PERSPECTIVES 3 Credit Hours**

Examines the use of the photographic medium in the context of the commercial marketplace. Discusses the advancement of material processes, provides a comprehensive overview of commercial imagery and market development, examines industry trends, and introduces several theoretical criticisms pertaining to constructed photography.

**Prerequisite:** Photography major or minor or photo journalism major or minor.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**VCD 30008 JUNIOR PORTFOLIO REVIEW - PHOTO-ILLUSTRATION 1 Credit Hour**

Required portfolio review in conference, with the School of Visual Communication Design Faculty, of work completed in VCD 38004 and VCD 38001, Students successfully passing review may continue in the B.S. degree program in Photo Illustration. Students not receiving a passing grade in the review may not continue in the program.

**Prerequisite:** VCD 38004; and photo illustration major.

**Corequisite:** VCD 38001.

**Schedule Type:** Studio

**Contact Hours:** 2 other

**Grade Mode:** Satisfactory/Unsatisfactory

**VCD 30009 JUNIOR PORTFOLIO REVIEW:GRAPHIC DESIGN/ILLUSTRATION 1 Credit Hour**

Required portfolio review in conference, with the school of Visual Communication Design Faculty, of work completed in VCD 32000, 32001, 33000 and 33001. Students successfully passing review may continue in the B.A. degree. To change to the B.F.A. program, students must be nominated by a majority of the VCD faculty. Students not receiving a passing grade in the review may not continue in the program.

**Prerequisite:** VCD 32000 and 33000; and visual communication design major.

**Corequisite:** VCD 32001 and 33001.

**Schedule Type:** Studio

**Contact Hours:** 1 lecture

**Grade Mode:** Satisfactory/Unsatisfactory

**VCD 32000 ILLUSTRATION I 3 Credit Hours**

Continuation of Design Illustration Techniques I and II with emphasis on technique and creative solutions as they apply to specific illustration areas: narrative, editorial, book, advertising and institutional.

**Prerequisite:** VCD 20010 and VCD 22001 and VCD 33000; and visual communication design major.

**Schedule Type:** Studio

**Contact Hours:** 6 other

**Grade Mode:** Standard Letter

**VCD 32001 ILLUSTRATION II 3 Credit Hours**

Illustration as communication: conceptual problem-solving visualizations of ideas utilizing felt tip markers as the medium of expression.

**Prerequisite:** VCD 32000.

**Schedule Type:** Studio

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**VCD 33000 GRAPHIC DESIGN I 3 Credit Hours**

Continuation of Introduction to Graphic Design and Introduction to Typography in the structuring of 2-D communication design utilizing headline, body copy and illustration with the addition of limited conceptual content.

**Prerequisite:** VCD 23001 with a minimum B- grade; and visual communication design major.

**Schedule Type:** Studio

**Contact Hours:** 6 other

**Grade Mode:** Standard Letter

**VCD 33001 GRAPHIC DESIGN II 3 Credit Hours**

Continuation of Graphic Design I, utilizing basic layout with emphasis on concept as applied to problem-solving methodologies through a series of exercises and problems.

**Prerequisite:** VCD 20010 and VCD 22001 and VCD 33000; and visual communication design major.

**Schedule Type:** Studio

**Contact Hours:** 6 other

**Grade Mode:** Standard Letter

**VCD 34004 VISUAL ETHICS 3 Credit Hours**

An extension of the information covered in the course Visual Literacy or Introduction to Visual Communication Design. Topics include the understanding of visual form, responsibility of the designer, photographer, and illustrator and those working in collaboration with visual communicators. Looks at image manipulation, copyright laws and ethical and professional guidelines. Also covered are topics such as sustainable design practices, acting as an advocate of the consumer and audience member. Discussion topics include credibility, dignity and developing a personal philosophy towards visual ethics.

**Prerequisite:** UXD 20001 or VCD 14001 or VCD 13000; and visual communication design major, photography major or user experience design minor or design minor.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**VCD 34005 INTRODUCTION TO 3D GRAPHIC DESIGN 3 Credit Hours**

Continuation of Graphic Design I and Introduction to Typography with application of typography and imagery to 3-D form.

**Prerequisite:** VCD 20010 and VCD 22001 and VCD 33000; and visual communication design major.

**Schedule Type:** Studio

**Contact Hours:** 6 other

**Grade Mode:** Standard Letter

**VCD 34006 MOTION DESIGN 3 Credit Hours**

A studio course designed to teach the fundamentals of motion graphic design. Materials and information are delivered through a series of lectures, demos and hands-on exercises.

**Prerequisite:** UXD 20001, VCD 18002 or VCD 33000; and visual communication design major, photography major or user experience design minor.

**Schedule Type:** Studio

**Contact Hours:** 6 other

**Grade Mode:** Standard Letter

**VCD 37000 VISUAL DESIGN FOR MEDIA: ADVANCED 3 Credit Hours**

A lab course in which students apply design concepts to computer-generated communication pieces using a layout software program. May not be used toward degree requirements by visual communication design majors.

**Prerequisite:** None.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 2 lecture, 1 lab

**Grade Mode:** Standard Letter

**VCD 38001 PHOTOGRAPHICS 3 Credit Hours**

This course explores relationships between photography and typography in communication. Unique solutions are created through the use of created images integrated with vector-based and raster graphics software (primarily Illustrator, InDesign and Photoshop). Students will examine techniques for Design and Typographic styles and work toward integrating these styles with purpose-made imagery.

**Prerequisite:** VCD 13001 and VCD 38004 and CCI 12001.

**Schedule Type:** Studio

**Contact Hours:** 3 lab

**Grade Mode:** Standard Letter

**VCD 38004 ADVANCED PHOTOGRAPHY 3 Credit Hours**

Introduction of professional strobe lighting equipment, materials and techniques along with the development of conceptual abilities and problem solving skills as applied to studio portraiture, still life, and location photography. Special lighting equipment and accessories furnished.

**Prerequisite:** VCD 18002.

**Schedule Type:** Studio

**Contact Hours:** 9 other

**Grade Mode:** Standard Letter

**VCD 38007 PHOTOGRAPHY TECHNIQUES 3 Credit Hours**

Explorations of current influences, innovations and trends in photography. Projects can include interdisciplinary collaborations such as the intersection of photojournalism and commercial photography, Architecture and Photography, etc.

**Prerequisite:** VCD 48005 and VCD 48008; and photography major.

**Schedule Type:** Studio

**Contact Hours:** 6 other

**Grade Mode:** Standard Letter

**VCD 38009 INTERNSHIP SEMINAR - PHOTOGRAPHY 1 Credit Hour**

Students prepare materials such as cover letters, resumes, employment applications and individual portfolios in preparation for interviewing and obtaining an internship and entering the job market in Photography.

**Prerequisite:** VCD 38004 and VCD 48005; and photography major; and sophomore standing.

**Schedule Type:** Seminar

**Contact Hours:** 1 other

**Grade Mode:** Satisfactory/Unsatisfactory

**VCD 38011 EDITORIAL PHOTOGRAPHY 3 Credit Hours**

This course explores and develops the style and protocols unique to editorial photography. Exploring and understanding visual storytelling; research methods and techniques; differences between advertising, fine art and editorial photography. Course will emphasize multiple styles of editorial work including portraiture, environmental, fashion, studio and location assignments. The importance of design along with critical thinking skills in image creation along with discussion of locations, model releases, editing, captioning, etc. will also be covered.

**Prerequisite:** VCD 28003 and VCD 38004; and photography major or visual communication design major.

**Schedule Type:** Studio

**Contact Hours:** 6 other

**Grade Mode:** Standard Letter

**VCD 40025 PROFESSIONAL PORTFOLIO 3 Credit Hours**

(Slashed with VCD 50025) Develop a senior-level professional portfolio through a selection and refinement of previously completed classroom work. Development of projects in areas of deficiency with emphasis on organization and presentation.

**Prerequisite:** Visual communication design major; and special approval.

**Schedule Type:** Studio

**Contact Hours:** 6 other

**Grade Mode:** Satisfactory/Unsatisfactory

**VCD 40035 PROFESSIONAL PORTFOLIO BFA DESIGN 3 Credit Hours**

Develop a professional portfolio in design and or illustration through selection and refinement of previously completed classroom work and development of projects in areas of deficiency, with emphasis on organization and presentation. Organization and participation in gallery show at the semester's conclusion.

**Prerequisite:** Visual communication design major within the bachelor of fine arts (BFA); and special approval.

**Schedule Type:** Studio

**Contact Hours:** 6 other

**Grade Mode:** Satisfactory/Unsatisfactory

**VCD 40052 GRAPHIC DESIGN-TRAVEL AND FIELD EXPERIENCE 1-6 Credit Hours**

Development of awareness and understanding in the practical application of graphic design and communication through directed field trip experience.

**Prerequisite:** None.

**Schedule Type:** Studio

**Contact Hours:** 2-12 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**VCD 40053 GRAPHIC DESIGN STUDIO-GLYPHIX 1-8 Credit Hours**

(Repeatable for a maximum of 24 credit hours) Professional experience through an internal design studio. Involves responsibilities and procedures for the production of communication materials for off-campus clients including nonprofit organizations, charities, arts groups and selected on-campus groups and departments.

**Prerequisite:** None.

**Schedule Type:** Studio

**Contact Hours:** 1-8 other

**Grade Mode:** Standard Letter

**VCD 40092 INTERNSHIP I-GRAPHIC DESIGN/ILLUSTRATION (ELR) 1 Credit Hour**

(Repeatable for credit)Preparation for experience in design studio, agency or company involving design responsibilities and procedures to broaden a student's understanding of the profession through real job situations.

**Prerequisite:** None.

**Schedule Type:** Practical Experience

**Contact Hours:** 1 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**Attributes:** Experiential Learning Requirement

**VCD 40095 SPECIAL TOPICS:GRAPHIC DESIGN/ILLUSTRATION 3 Credit Hours**

(Repeatable for a maximum of 9 credit hours)To broaden the course offerings into specialized areas of study in graphic design and illustration taught by experts in the profession as guest faculty. Primarily used to fulfill electives in graphic design or illustration.

**Prerequisite:** Special approval.

**Schedule Type:** Studio

**Contact Hours:** 5 other

**Grade Mode:** Standard Letter-IP

**VCD 40096 INDIVIDUAL INVESTIGATION IN GRAPHIC DESIGN AND ILLUSTRATION 1-8 Credit Hours**

(Repeatable for a maximum of 16 credit hours)Individual study related to topics of graphic design and illustration approved by and under the direction of a faculty member.

**Prerequisite:** None.

**Schedule Type:** Individual Investigation

**Contact Hours:** 1-8 other

**Grade Mode:** Standard Letter-IP

**VCD 40192 INTERNSHIP II-GRAPHIC DESIGN/ILLUSTRATION/ PHOTOGRAPHY (ELR) 1-3 Credit Hours**

(Repeatable for credit) Three credit hours required. Experience in a design, illustration or photography studio, agency or company with responsibilities and to broaden a student's understanding of the profession through a real job situation.

**Prerequisite:** VCD 40092 or VCD 38009.

**Schedule Type:** Practical Experience

**Contact Hours:** 3-9 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**Attributes:** Experiential Learning Requirement

**VCD 40193 VARIABLE TITLE WORKSHOP IN VISUAL COMMUNICATION DESIGN 1-3 Credit Hours**

(Repeatable for credit)Workshop setting dealing with intensive examination of special topics in VCD.

**Prerequisite:** None.

**Schedule Type:** Workshop

**Contact Hours:** 1-3 other

**Grade Mode:** Satisfactory/Unsatisfactory

**VCD 40195 SELECTED TOPICS:GRAPHIC DESIGN/ILLUSTRATION 1-4 Credit Hours**

(Repeatable for credit)Variable topics related to graphic design and illustration.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 1-4 lecture

**Grade Mode:** Standard Letter-IP

**VCD 42000 ADVANCED ILLUSTRATION:MEDIA 3 Credit Hours**

(Slashed with VCD 52000) Discussions and practice of media and grounds as they pertain to the illustration field. Discussion also centers around the problems in developing work for reproduction.

**Prerequisite:** VCD 22000, VCD 22001 and VCD 32000; and bachelor of fine arts (BFA) or bachelor of arts (BA) in visual communication design major.

**Schedule Type:** Studio

**Contact Hours:** 6 other

**Grade Mode:** Standard Letter

**VCD 42002 EDITORIAL ILLUSTRATION 3 Credit Hours**

(Slashed with VCD 52002) Exploration and discussion of various illustration techniques and their application in the publishing field. Emphasis is placed on client needs, concept and intended audience.

**Prerequisite:** VCD 22000, VCD 22001; and bachelor of fine arts (BFA) or bachelor of arts (BA) in visual communication design major.

**Schedule Type:** Studio

**Contact Hours:** 6 other

**Grade Mode:** Standard Letter



**VCD 42003 ADVERTISING ILLUSTRATION 3 Credit Hours**

(Slashed with VCD 42003) Exploration and discussion of various illustration techniques and their application in advertising. Emphasis is placed on client need, concept of solution and intended audience.

**Prerequisite:** VCD 22000 and VCD 22001; and bachelor of fine arts (BFA) or bachelor of arts (BA) in visual communication design (VCD) major.

**Schedule Type:** Studio

**Contact Hours:** 6 other

**Grade Mode:** Standard Letter

**VCD 42005 CHARACTER DEVELOPMENT AND DESIGN: THE HUMAN FIGURE 3 Credit Hours**

(Slashed with VCD 52005) Focuses on the application of the fundamental design principles and mechanics used when designing characters for film animation, television animation, computer animation, video games, comic strips, comic books, advertising, editorial illustration and book illustration.

**Prerequisite:** VCD 22000 and VCD 22001.

**Schedule Type:** Studio

**Contact Hours:** 6 other

**Grade Mode:** Standard Letter

**VCD 42006 CHARACTER DEVELOPMENT AND DESIGN: ANIMALS AND ENVIRONMENTS 3 Credit Hours**

(Slashed with VCD 52006) This course focuses on the application of fundamental design principles and mechanics used when designing characters for film animation, television animation, computer animation, video games, comic strips, comic books, book illustration, advertising, and editorial illustration.

**Prerequisite:** VCD 22000, VCD 22001 and bachelor of fine arts (BFA) or bachelor of arts (BA) in visual communication design major.

**Schedule Type:** Studio

**Contact Hours:** 6 other

**Grade Mode:** Standard Letter

**VCD 42007 GRAPHIC NARRATIVE 3 Credit Hours**

(Slashed with VCD 52007) This course fuses written and visual content, allowing students to both author and illustrate visual narratives. Through readings, various genres of written form are explored and both historical and emerging narrative formats within the field of illustration are emphasized.

**Prerequisite:** VCD 22000 and VCD 22001.

**Schedule Type:** Studio

**Contact Hours:** 6 other

**Grade Mode:** Standard Letter

**VCD 43000 STUDIO PRODUCTION 3 Credit Hours**

A technical lecture course designed to teach the fundamental techniques and processes of electronic prepress and printing production. Material is presented through lectures, demos, tests and field trips.

**Prerequisite:** Visual communication design major; and junior standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**VCD 43001 INTERACTION DESIGN I 3 Credit Hours**

(Slashed with VCD 53001) The conceptualization and prototyping of interactive experiences. Prerequisite: VCD 34006

**Schedule Type:** Studio

**Contact Hours:** 6 other

**Grade Mode:** Standard Letter

**VCD 43002 TYPOGRAPHY II 3 Credit Hours**

(Slashed with VCD 53002) The use of typography (rather than visual imagery) as the primary design form in solving graphic design communication problems.

**Prerequisite:** VCD 13000, VCD 13001, VCD 23001, VCD 33000 and VCD 33001; and bachelor of fine arts (BFA) or bachelor of arts (BA) in visual communication design (VCD) major.

**Schedule Type:** Studio

**Contact Hours:** 6 other

**Grade Mode:** Standard Letter

**VCD 43003 IDENTITY SYSTEMS 3 Credit Hours**

Use of graphic design forms (typography, photography and illustration) in the development of identity systems.

**Prerequisite:** VCD 13000, VCD 13001, VCD 23001 and VCD 33000; and bachelor of fine arts (BFA) or bachelor of arts (BA) visual communication design (VCD).

**Schedule Type:** Studio

**Contact Hours:** 6 other

**Grade Mode:** Standard Letter

**VCD 43004 PROFESSIONAL COMMUNICATION FOR DESIGN 3 Credit Hours**

(Slashed with VCD 53004) Designed to familiarize students with the basic business, marketing, legal and ethical standards in the graphic design industry.

**Prerequisite:** Junior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**VCD 43005 PACKAGING, PROMOTION AND RETAIL ENVIRONMENTS 3 Credit Hours**

Use of typography and visual images, photography and illustrations in the structure of information for communication on 3D surfaces: direct mail, packaging and point of purchase display.

**Prerequisite:** VCD 13000, VCD 13001, VCD 22000, VCD 22001, VCD 23001, VCD 33000, VCD 33001 and VCD 34005; and visual communication design major.

**Schedule Type:** Studio

**Contact Hours:** 6 other

**Grade Mode:** Standard Letter

**VCD 43006 ENVIRONMENTAL GRAPHIC DESIGN 3 Credit Hours**

Aims at coordinating architectural planning, interior design systems analysis and graphic communications.

**Prerequisite:** None.

**Schedule Type:** Studio

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**VCD 43007 INFORMATION GRAPHICS 3 Credit Hours**

Introduction to shapes, color type and combinations of these for computer-designed news graphics; maps, charts, graphs and diagrams.

**Prerequisite:** JMC 20004 and VCD 13001.

**Schedule Type:** Laboratory, Lecture

**Contact Hours:** 3 lecture, 2 lab

**Grade Mode:** Standard Letter

**VCD 43008 BRANDED IDENTITY 3 Credit Hours**

The examination and development of graphic design forms as they pertain to corporate branding. Related methods of visual communication explored through studio.

**Prerequisite:** VCD 13000, 13001, 22000, 23001; and bachelor of arts (BA) in the visual communication design major.

**Schedule Type:** Studio

**Contact Hours:** 6 other

**Grade Mode:** Standard Letter

**VCD 43051 TYPE HIGH PRESS 3 Credit Hours**

Students will explore aspects of letterpress printing. Course content will include typesetting, printing basics, and a brief history of movable type printing and typography. Students will work on a series of projects to acclimate themselves to the equipment and various printing techniques.

**Prerequisite:** VCD 13000, 13001, 22000, 23001 and VCD 33000; and visual communication design major.

**Schedule Type:** Studio

**Contact Hours:** 6 other

**Grade Mode:** Standard Letter

**VCD 43060 INTRODUCTION TO TYPEFACE DESIGN 3 Credit Hours**

(Slashed with VCD 53060) This course will serve as an introduction to the core principles of typeface design. It is a fast paced and challenging course with a requirement for a high level of engagement and research on the part of the student. Building on skills learned in other VCD classes, this is an advanced level course dealing with the underlying themes in typeface design and their relationship to the typographer's needs.

**Prerequisite:** Visual communication design major within the bachelor of fine arts; and junior or senior standing.

**Schedule Type:** Studio

**Contact Hours:** 6 other

**Grade Mode:** Standard Letter

**VCD 43101 INTERACTION DESIGN II 3 Credit Hours**

(Slashed with VCD 53101) Students will be continue their study of interaction design by working on two projects and two exercises. They will work to develop the content, to compile user research, structure the information architecture, design the interface and prototype their concepts. Students are encouraged to focus on a specific context and audience while demonstrating its use in a final prototype that represents a pathway of experience. Students will focus on the designer's role in the development of interactive spaces and communities, as well as the interdisciplinary exchange with other professionals (computer programmers, software developers, and marketing professionals). We will study human-computer interaction and focus on the needs of the user to create the best user experience. When possible, students will work on real-world projects that allow for collaboration with programmers and developers.

**Prerequisite:** VCD 43001.

**Schedule Type:** Studio

**Contact Hours:** 6 other

**Grade Mode:** Standard Letter

**VCD 44001 EXHIBITION DESIGN 3 Credit Hours**

The study of content, narrative development, consideration of space, and the use of materials and media in environmental and exhibition design. Includes working in scale, 2D and 3D rendering, physical and digital modeling.

**Prerequisite:** VCD 34005; and special approval.

**Schedule Type:** Studio

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**VCD 45000 GRAPHIC DESIGN PERSPECTIVES (WIC) 3 Credit Hours**

Comprehensive exploration of design through history. Topics include the early alphabet, print processes, illustration, photography, corporate design, modern design and digital processes.

**Prerequisite:** ENG 21011 or HONR 10297; and junior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Writing Intensive Course

**VCD 46000 WEB DESIGN AND PROGRAMMING I 3 Credit Hours**

(Slashed with VCD 56000) Course focus is on Web concepts and high-quality Web design; CS and VCD principles, tools, architecture, presentation, design and creation of websites through teamwork. Course is jointly taught by Computer Science and Visual Communication Design.

**Prerequisite:** CS 10051 and VCD 13001.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter-IP

**VCD 46001 WEB DESIGN AND PROGRAMMING II 3 Credit Hours**

(Slashed with VCD 56001) An elective course jointly taught by computer science and VCD on advanced web technologies and multimedia web design: web servers, security, advanced design, java servlets, applets, database connectivity, site maintenance, relation of actual websites by teamwork.

**Prerequisite:** VCD 46000.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter-IP

**VCD 46003 TYPOGRAPHY III 3 Credit Hours**

(Slashed with VCD 56003) Applying typographic rules in advanced projects. Organizing large amounts of text in complex architectures and designing viewer controlled space. Exploration of dynamic information sound and motion sequences. Prerequisite: VCD 43002

**Schedule Type:** Studio

**Contact Hours:** 6 other

**Grade Mode:** Standard Letter-IP

**VCD 48001 PHOTOGRAPHIC PROJECT 3 Credit Hours**

Provides students the opportunity to conceptualize, organize and produce a semester-long photographic project of their choice under the supervision of the course instructor. Projects will augment students' existing photographic portfolios.

**Prerequisite:** Photography major; and special approval.

**Schedule Type:** Studio

**Contact Hours:** 6 other

**Grade Mode:** Standard Letter

**VCD 48002 ADVANCED PHOTOGRAPHIC PROJECT 3 Credit Hours**

Continuation of VCD 48001. Each student will conceptualize, organize and produce a semester-long photographic project of their choice under the supervision of the course instructor. Projects will augment students' existing photographic portfolios.

**Prerequisite:** VCD 48001.

**Schedule Type:** Studio

**Contact Hours:** 6 other

**Grade Mode:** Standard Letter

**VCD 48003 PROFESSIONAL PORTFOLIO PHOTOGRAPHY 3 Credit Hours**

Students will create personal, professional portfolios (electronic and hard copy) developed through branding and identity explorations. Each portfolio will be a blend of the student's best work and career path desires and expressed through sophisticated branding and design principles. Students will also develop and hang an exhibition of their student work in the Taylor Hall art gallery.

**Prerequisite:** Photography major; and special approval.

**Schedule Type:** Studio

**Contact Hours:** 6 other

**Grade Mode:** Satisfactory/Unsatisfactory

**VCD 48005 COLOR PHOTOGRAPHY 3 Credit Hours**

The depth of Color Photography is explored through a range of lectures, assignments, and critiques. Topics include: Color Theory, Psychology, Cultural Influences and Relationships. Also color perception, color models and gamut, digital color correction, color management. Management and control of output in printing is studied in-depth throughout the semester. All the above will be explored through both lectures and photographic assignments.

**Prerequisite:** VCD 28003 and VCD 38004; and photography or visual communication design major.

**Schedule Type:** Studio

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**VCD 48008 ADVANCED DIGITAL IMAGING 3 Credit Hours**

This course emphasizes advanced techniques in the use of image editing software to develop workflow techniques and post-production and editing skills. Technical information will be supplemented with a series of photographic assignments that explore advanced application and usage of tools and skills covered as well as new Additional explorations into current digital technologies such as virtual reality, CGI generated imagery and compositing with made photography, Advanced compositing of multiple shoots into cohesive wholes, etc. Software used includes Photoshop, Lightroom, and Capture One Pro.

**Prerequisite:** VCD 38004 and VCD 28003; and photography major or minor or visual communication design major.

**Schedule Type:** Studio

**Contact Hours:** 6 other

**Grade Mode:** Standard Letter

**VCD 48009 FASHION PHOTOGRAPHY 3 Credit Hours**

Emphasis on editorial and advertising fashion photography. Students will explore: Fashion shoot protocols and techniques; Studio and Location Lighting Techniques, History and Theory of Fashion Photography, Fashion Shoot management. In partial collaboration with Fashion School BFA students along with live models on both studio and location shoots. The technical information will be supplemented with a series of photographic project assignments both in studio and on location.

**Prerequisite:** VCD 28003 and VCD 38004; and photography or visual communication design major.

**Schedule Type:** Studio

**Contact Hours:** 1 lecture, 4 other

**Grade Mode:** Standard Letter

**VCD 48092 PRACTICUM IN PHOTOGRAPHY (ELR) 1-3 Credit Hours**  
(Repeatable for a total of 10 hours) Individual or group investigation into student selected areas of photographic field.

**Prerequisite:** Photography or visual communication design major; and junior and senior standing.

**Schedule Type:** Practical Experience

**Contact Hours:** 7-21 other

**Grade Mode:** Standard Letter

**Attributes:** Experiential Learning Requirement

**VCD 49198 SENIOR RESEARCH PAPER:GRAPHIC DESIGN/ ILLUSTRATION (ELR) (WIC) 2 Credit Hours**

Written documentation of a senior project in graphic design or illustration. If VCD 49199 Senior Project Graphic Design/Illustration is chosen, it must be taken concurrently with Senior Research paper and presented for final review by a faculty committee.

**Prerequisite:** Senior standing.

**Schedule Type:** Research

**Contact Hours:** 2 other

**Grade Mode:** Standard Letter-IP

**Attributes:** Experiential Learning Requirement, Writing Intensive Course

**VCD 49199 CAPSTONE PROJECT (ELR) 3 Credit Hours**

A capstone project in design, illustration, or photography structured by the student (with approval by faculty), culminating in a final presentation or exhibit.

**Prerequisite:** Photography major or Visual Communication Design major; and senior standing; and special approval.

**Schedule Type:** Project or Capstone, Studio

**Contact Hours:** 6 other

**Grade Mode:** Standard Letter-IP

**Attributes:** Experiential Learning Requirement

**VCD 50000 BASIC COMPUTER GRAPHIC DESIGN/ILLUSTRATION 2 Credit Hours**

An introduction to the use of the computer as a tool in graphic design and illustration. Exploration of the relationship and integration of various hardware configurations and software solutions to meet the demands of today's designers and illustrators.

**Prerequisite:** Graduate standing.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 2 other

**Grade Mode:** Standard Letter-IP

**VCD 50003 INTERMEDIATE COMPUTER DESIGN-GD I VARIOUS SOFTWARE 3 Credit Hours**

Addresses the issues of page layout and design, digital manipulation and vector graphic illustration for graphic design professionals.

**Prerequisite:** Visual communication design majors; and graduate standing.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 2 lecture, 2 lab

**Grade Mode:** Standard Letter

**VCD 50025 PROFESSIONAL PORTFOLIO 3 Credit Hours**

(Slashed with VCD 40025) Develop a professional portfolio through selection and refinement of previously completed classroom work development of projects in areas of deficiency with emphasis on organization and presentation.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Studio

**Contact Hours:** 6 other

**Grade Mode:** Satisfactory/Unsatisfactory

**VCD 50052 GRAPHIC DESIGN-TRAVEL AND FIELD EXPERIENCE 1-6 Credit Hours**

(Repeatable for credit) Development of awareness and understanding in the practical application of graphic design and communication through directed field trip experience. Repeatable for a total of 16 credit hours.

**Prerequisite:** Graduate standing.

**Schedule Type:** Studio

**Contact Hours:** 1-6 other

**Grade Mode:** Standard Letter

**VCD 50053 GRAPHIC DESIGN STUDIO-GLYPHIX 1-6 Credit Hours**

(Repeatable for a maximum of 12 credit hours) Professional experience through an internal design studio. Involves responsibilities and procedures for the production of communication materials for off campus clients including non-profit organizations charities arts groups and selected on campus groups and departments.

**Prerequisite:** Graduate standing.

**Schedule Type:** Studio

**Contact Hours:** 1-6 other

**Grade Mode:** Standard Letter-IP

**VCD 50092 INTERNSHIP-GRAPHIC DESIGN AND ILLUSTRATION 1-6 Credit Hours**

(Repeatable for credit) Experience in design studio, agency or company involving design responsibilities and procedures to broaden a student's understanding of the profession through a real job situation.

**Prerequisite:** Graduate standing.

**Schedule Type:** Practical Experience

**Contact Hours:** 1-6 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**VCD 50095 SPECIAL TOPICS IN GRAPHIC DESIGN/ILLUSTRATION 3 Credit Hours**

(Repeatable for a maximum of 9 credit hours) To broaden the course offerings into specialized areas of study in graphic design and illustration taught by experts in the profession as a guest faculty. Primarily used to fulfill electives in graphic design or illustration.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Studio

**Contact Hours:** 5 other

**Grade Mode:** Standard Letter-IP

**VCD 50193 VARIABLE TITLE WORKSHOP IN VCD 1-3 Credit Hours**

(Repeatable for credit) Workshop setting dealing with intensive examination of special topics in VCD.

**Prerequisite:** Graduate standing.

**Schedule Type:** Workshop

**Contact Hours:** 1-3 other

**Grade Mode:** Satisfactory/Unsatisfactory

**VCD 50195 SELECTED TOPICS GRAPHIC DESIGN AND ILLUSTRATION 1-4 Credit Hours**

(Repeatable for credit) Variable topics related to graphic design and illustration.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 1-4 lecture

**Grade Mode:** Standard Letter

**VCD 52000 ADVANCED ILLUSTRATION/MEDIA 3 Credit Hours**

Discussions and practice of media and grounds as they pertain to the illustration field. Discussion will also center around the problems in developing work of reproduction.

**Prerequisite:** Visual communication design major; and graduate standing.

**Schedule Type:** Studio

**Contact Hours:** 5 other

**Grade Mode:** Standard Letter

**VCD 52002 EDITORIAL ILLUSTRATION 3 Credit Hours**

Exploration and discussion of various illustration techniques and their application in the publishing field. Emphasis is placed on client needs, concept and intended audience.

**Prerequisite:** Visual communication design major; and graduate standing.

**Schedule Type:** Studio

**Contact Hours:** 5 other

**Grade Mode:** Standard Letter

**VCD 52003 ADVERTISING ILLUSTRATION 3 Credit Hours**

Exploration and discussion of various illustration techniques and their application in advertising. Emphasis is placed on client need, concept of solution and intended audience.

**Prerequisite:** Visual communication design major; and graduate standing.

**Schedule Type:** Studio

**Contact Hours:** 5 other

**Grade Mode:** Standard Letter

**VCD 52005 CHARACTER DEVELOPMENT AND DESIGN 3 Credit Hours**

(Slashed with VCD 42005) Focuses on the application of the fundamental design principles and mechanics used when designing characters for film animation, television animation, computer animation, video games, comic strips, comic books, advertising, editorial illustration and book illustration. Students must demonstrate proficiency in drawing to register for this course.

**Prerequisite:** Graduate standing.

**Schedule Type:** Studio

**Contact Hours:** 6 other

**Grade Mode:** Standard Letter

**VCD 52006 CHARACTER DEVELOPMENT AND DESIGN: ANIMALS AND ENVIRONMENTS 3 Credit Hours**

(Slashed with VCD 42006) This course focuses on the application of fundamental design principles and mechanics used when designing characters for film animation, television animation, computer animation, video games, comic strips, comic books, book illustration, advertising, and editorial illustration.

**Prerequisite:** Master of fine arts (MFA) or master of arts (MA) in visual communication design major; and graduate standing.

**Schedule Type:** Studio

**Contact Hours:** 6 other

**Grade Mode:** Standard Letter

**VCD 52007 GRAPHIC NARRATIVE 3 Credit Hours**

(Slashed with VCD 42007) This course fuses written and visual content, allowing students to both author and illustrate visual narratives. Through readings, various genres of written form are explored and both historical and emerging narrative formats within the field of illustration are emphasized.

**Prerequisite:** Master of fine arts (MFA) or master of arts (MA) in visual communication design (VCD); and graduate standing.

**Schedule Type:** Studio

**Contact Hours:** 6 other

**Grade Mode:** Standard Letter



**VCD 53000 STUDIO PRODUCTION 3 Credit Hours**

A technical lecture course designed to teach the fundamental techniques and processes of electronic prepress and printing production. This material is presented through a series of lectures, demos, written tests and field trips.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**VCD 53001 INTERACTION DESIGN I 3 Credit Hours**

(Slashed with VCD 43001) The conceptualization and prototyping of interactive experiences.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Studio

**Contact Hours:** 6 other

**Grade Mode:** Standard Letter

**VCD 53002 TYPOGRAPHY II 3 Credit Hours**

(Slashed with VCD 43002) The use of typography (rather than visual imagery) as the primary design form in solving graphic communication problems.

**Prerequisite:** Visual communication design major; and graduate standing.

**Schedule Type:** Studio

**Contact Hours:** 6 other

**Grade Mode:** Standard Letter

**VCD 53003 IDENTITY SYSTEMS 3 Credit Hours**

(Slashed with VCD 43003) Use of graphic design forms (typography, photography and illustration) in the development of corporate identification for total advertising programs.

**Prerequisite:** Visual communication design major; and graduate standing.

**Schedule Type:** Studio

**Contact Hours:** 6 other

**Grade Mode:** Standard Letter

**VCD 53004 PROFESSIONAL COMMUNICATION FOR DESIGN 3 Credit Hours**

(Slashed with VCD 43004) Designed to familiarize students with the basic business, marketing, legal and ethical standards in the graphic design industry.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**VCD 53005 PACKAGING, PROMOTION AND RETAIL ENVIRONMENTS 3 Credit Hours**

(Slashed with VCD 43005) Use of typography and visual images, photography and illustrations, in the structure of information for communication on 3D surfaces: direct mail, packaging and point of purchase display.

**Prerequisite:** Visual communication design major; and graduate standing; and special approval.

**Schedule Type:** Studio

**Contact Hours:** 6 other

**Grade Mode:** Standard Letter

**VCD 53006 ENVIRONMENTAL GRAPHIC DESIGN 3 Credit Hours**

Aims at coordinating architectural planning, interior design systems analysis and graphic communications. Also includes and individually directed research component.

**Prerequisite:** Graduate standing.

**Schedule Type:** Studio

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**VCD 53007 INFORMATION GRAPHICS 2 Credit Hours**

Introduction to shapes, color, type and combinations of these for computer- designed news graphics; maps, charts, graphs and diagrams.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**VCD 53051 TYPE HIGH PRESS 3 Credit Hours**

(Repeatable for a maximum of 12 credit hours) Students will explore aspects of letterpress printing. Course content will include typesetting, printing basics, and a brief history of movable type printing and typography. Students will work on a series of projects to acclimate themselves to the equipment and various printing techniques.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Studio

**Contact Hours:** 5 other

**Grade Mode:** Standard Letter

**VCD 53060 INTRODUCTION TO TYPEFACE DESIGN 3 Credit Hours**

(Slashed with VCD 43060) This course will serve as an introduction to the core principles of typeface design. It is a fast paced and challenging course with a requirement for a high level of engagement and research on the part of the student. Building on skills learned in other VCD classes, this is an advanced level course dealing with the underlying themes in typeface design and their relationship to the typographer's needs.

**Prerequisite:** Visual communication design major; and graduate standing.

**Schedule Type:** Studio

**Contact Hours:** 6 other

**Grade Mode:** Standard Letter

**VCD 53101 INTERACTION DESIGN II 3 Credit Hours**

(Slashed with VCD 43101) Students will be continue their study of interaction design by working on two projects and two exercises. They will work to develop the content, to compile user research, structure the information architecture, design the interface and prototype their concepts. Students are encouraged to focus on a specific context and audience while demonstrating its use in a final prototype that represents a pathway of experience. Students will focus on the designer's role in the development of interactive spaces and communities, as well as the interdisciplinary exchange with other professionals (computer programmers, software developers, and marketing professionals). We will study human-computer interaction and focus on the needs of the user to create the best user experience. When possible, students will work on real-world projects that allow for collaboration with programmers and developers

**Prerequisite:** Graduate standing.

**Schedule Type:** Studio

**Contact Hours:** 6 other

**Grade Mode:** Standard Letter



**VCD 55000 GRAPHIC DESIGN PERSPECTIVES 3 Credit Hours**  
Comprehensive exploration of design through history. Topics include the early alphabet, print processes, illustration, photography, corporate design, modern design and digital processes.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**VCD 56000 WEB DESIGN AND PROGRAMMING I 3 Credit Hours**  
(Slashed with VCD 46000) Course focus is on web concepts and high quality web design; CS and VCD principles, tools, architecture, presentation, design and creation of websites through teamwork. Course is jointly taught by CS and VCD.

**Prerequisite:** Visual communication design major; and graduate standing.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 2 lecture, 2 lab

**Grade Mode:** Standard Letter-IP

**VCD 56001 WEB DESIGN AND PROGRAMMING II 3 Credit Hours**  
(Slashed with VCD 46001) Advanced course in web technologies and multimedia web design: web servers, security, advanced design, java servlets, applets, database connectivity, site maintenance, relation of actual websites by teamwork. Course is jointly taught by CS and VCD.

**Prerequisite:** Visual communication design major; and graduate standing.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 2 lecture, 2 lab

**Grade Mode:** Standard Letter-IP

**VCD 56003 TYPOGRAPHY III 3 Credit Hours**  
(Slashed with VCD 46003) Applying typographic rules in advanced projects. Organizing large amounts of text in complex architectures and designing viewer controlled space. Exploration of dynamic information sound and motion sequences.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Studio

**Contact Hours:** 6 other

**Grade Mode:** Standard Letter

**VCD 60009 CANDIDACY REVIEW/GRAPHIC DESIGN AND ILLUSTRATION 1 Credit Hour**  
A formal review of the work completed in the first 12 semester credit hours of graphic design and/or illustration courses for both M.F.A. and M.A.

**Prerequisite:** Graduate standing.

**Schedule Type:** Individual Investigation

**Contact Hours:** 1 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**VCD 60010 DESIGN RESEARCH METHODS 3 Credit Hours**  
Introductory course to the design research methods employed in the professional practice of visual communication design. Students will gain an understanding of research strategies, tactics and tools, and will apply their use through a combination of readings, videos, online discussion and a final cumulative project. Focus will be directed on the design process, research and ideation skills, and understanding research methods in the context of today's design profession.

**Prerequisite:** Visual communication design major; and graduate standing.

**Schedule Type:** Seminar

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**VCD 60011 TYPOGRAPHIC STRUCTURES AND SYSTEMS 3 Credit Hours**

Serves as an intensive introduction to typography and its application in visual communication design. Students will learn to create successful typographic compositions by controlling hierarchy, contrast, space, and grids. The course also covers the organization of information, and facilitates discussion and creative work on the effects of type choice and style in communication. Students will be familiarized with typography for print and screen-based environments.

**Prerequisite:** Visual communication design major; and graduate standing.

**Schedule Type:** Studio

**Contact Hours:** 6 other

**Grade Mode:** Standard Letter

**VCD 60012 CONCEPT DEVELOPMENT AND IMPLEMENTATION 3 Credit Hours**

Serves as an intensive introduction to conceptual development and how it is implemented with form in visual communication design.

**Prerequisite:** VCD 60011; and visual communication design major; and graduate standing.

**Schedule Type:** Studio

**Contact Hours:** 6 other

**Grade Mode:** Standard Letter

**VCD 60013 GRAPHIC DESIGN ADVANCED 3 Credit Hours**

Builds on typography and concept development. Students will gain experience combining layout, concept and problem-solving methodologies through a series of exercises and problems. Projects facilitate the student's ability to employ narrative and storytelling methods, along with design research, analysis, documentation and implementation. The structure of this course is designed to foster self-initiative. Exercises will be completed outside class time and students will be given a great amount of flexibility as they frame projects and decipher solutions to problems.

**Prerequisite:** VCD 60010; and VCD 60011; and VCD 60012; and visual communication design major; and graduate standing.

**Schedule Type:** Studio

**Contact Hours:** 6 other

**Grade Mode:** Standard Letter

**VCD 60020 GRADUATE STUDIO IN VISUAL COMMUNICATION DESIGN 3 Credit Hours**

(Repeatable for a maximum of 6 credit hours) Research based, hands-on studio course providing a context for collaborative and individual projects in design, illustration and/or photography.

**Prerequisite:** Visual communication design major; and graduate standing.

**Schedule Type:** Studio

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter-IP

**VCD 60091 GRADUATE SEMINAR IN VISUAL COMMUNICATION DESIGN 3 Credit Hours**

(Repeatable for credit) Focuses on design theory and research methodologies pertaining to design. Content consists mostly of readings, discussions and student presentations.

**Prerequisite:** Visual communication design major; and graduate standing.

**Schedule Type:** Seminar

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter-IP

**VCD 60094 COLLEGE TEACHING IN VISUAL COMMUNICATION DESIGN 3 Credit Hours**

For VCD student teaching or who anticipate teaching in higher education. This experience also supports future careers in management, art direction and instructional roles in industry. Discussions include grading, critiques, classroom management and evaluation techniques.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**VCD 60095 SPECIAL TOPICS IN GRAPHIC DESIGN/ILLUSTRATION 1-4 Credit Hours**

(Repeatable for a maximum of 16 credit hours) To broaden course offerings into specialized areas of study in graphic design and illustration taught by experts in the profession as guest faculty. Used to fulfill primary studio requirements in graphic design and or illustration.

**Prerequisite:** Graduate standing.

**Schedule Type:** Studio

**Contact Hours:** 1-4 other

**Grade Mode:** Standard Letter-IP

**VCD 60096 INDIVIDUAL INVESTIGATION IN GRAPHIC DESIGN AND ILLUSTRATION 1-16 Credit Hours**

(Repeatable for credit) Individual investigation related to topics of graphic design and illustration approved and under the direction of a faculty member.

**Prerequisite:** Graduate standing.

**Schedule Type:** Individual Investigation

**Contact Hours:** 1-16 other

**Grade Mode:** Standard Letter-IP

**VCD 60098 RESEARCH 1-15 Credit Hours**

(Repeatable for credit) Independent research under the direction of a faculty member in the division of design/illustration.

**Prerequisite:** Graduate standing.

**Schedule Type:** Research

**Contact Hours:** 1-15 other

**Grade Mode:** Standard Letter

**VCD 60099 M.A. PROJECT GRAPHIC DESIGN AND ILLUSTRATION 4 Credit Hours**

A research project for non-thesis option M.A. students approved in consultation with the faculty adviser which culminates in a visual project exhibition and formal presentations.

**Prerequisite:** Graduate standing.

**Schedule Type:** Research

**Contact Hours:** 4 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**VCD 60120 USER EXPERIENCE DESIGN PRINCIPLES AND CONCEPTS 3 Credit Hours**

Students explore the context in which User Experience Design exists and the various methods employed by designers in various fields related to design research, the generation of ideas, and implementation of designs. Students are introduced to methods of design evaluation and to the conceptual framework of the related curricula.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**VCD 60121 USER EXPERIENCE DESIGN IN PRACTICE 3 Credit Hours**

Students learn and employ methods for engaging in creative problem solving. Introduce students to design research methods and current research on human behavior as it applies to user experience design. A core set of design deliverables are examined. Students begin to develop individual portfolio materials.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**VCD 60171 CRITICAL PRACTICES IN DESIGN RESEARCH 3 Credit Hours**

(Repeatable for credit) (Slashed with VCD 80171) This graduate seminar course introduces methods for integrating critical practices into larger communication design research agendas. The term "critical practices" includes three areas of design-centered inquiry: critical design, critical making, and design authorship.

**Prerequisite:** Master of fine arts (MFA) or master of arts (MA) in visual communication design major; and graduate standing.

**Schedule Type:** Seminar

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**VCD 60191 ADVANCED RESEARCH 3 Credit Hours**

Serves as the research intensive continuation of VCD 60091 Graduate Seminar. Students will focus on the development of their MFA thesis proposals by identifying a topic, investigating relevant literature and media, developing a thesis statement, and writing the full thesis proposal. Deliverables include a finished MFA thesis proposal, research schedule, and corresponding logic model.

**Prerequisite:** VCD 60091 and VCD 60094; and visual communication design major; and graduate standing.

**Schedule Type:** Seminar

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**VCD 60200 DESIGN THEORY I: CULTURE, COMMUNITIES AND CONTEXT 3 Credit Hours**

(Slashed with VCD 80200) Introduces students to design theory through a lens of classic and contemporary readings taken from various disciplines. This survey of perspectives assists students in developing their individual voice as a designer. Delves into issues that affect the field of graphic design and will continue to shape culture and history. Students are asked to question ideas of community and to expand on their ideas with examples through media and technology. Students critically question notions of history, psychology and social behaviors. The writing and criticism of advertising, communication, design artifacts and culture are the primary communication tool of the class, which is completed through papers and personal reflections.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**VCD 68199 M.A.THESIS I 2-6 Credit Hours**

Thesis students must register for a minimum of 6 hours, 2-6 hours in a single semester or distributed over several semesters if desired.

**Prerequisite:** Graduate standing.

**Schedule Type:** Masters Thesis

**Contact Hours:** 2-6 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**VCD 68299 M.A.THESIS II 2 Credit Hours**

Thesis students must continue registration each semester until all degree requirements are met.

**Prerequisite:** VCD 68199; and graduate standing.

**Schedule Type:** Masters Thesis

**Contact Hours:** 2 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**VCD 69199 M.F.A. THESIS I 2-6 Credit Hours**

Thesis students must register for a minimum of 6 hours; 2 -6 hours in a single semester or distributed over several semesters if desired.

**Prerequisite:** Graduate standing.

**Schedule Type:** Masters Thesis

**Contact Hours:** 2-6 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**VCD 69299 M.F.A. THESIS II 2 Credit Hours**

Thesis students must continue registration each semester until all degree requirements are met.

**Prerequisite:** VCD 69199; and graduate standing.

**Schedule Type:** Masters Thesis

**Contact Hours:** 2 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**VCD 80171 CRITICAL PRACTICES IN DESIGN RESEARCH 3 Credit Hours**

(Repeatable for credit) (Slashed with VCD 60171) This graduate seminar course introduces methods for integrating critical practices into larger communication design research agendas. The term "critical practices" includes three areas of design-centered inquiry: critical design, critical making, and design authorship. This course is not repeatable.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Seminar

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**VCD 80200 DESIGN THEORY I: CULTURE, COMMUNITIES AND CONTEXT 3 Credit Hours**

(Slashed with VCD 60200) Introduces students to design theory through a lens of classic and contemporary readings taken from various disciplines. This survey of perspectives assists students in developing their individual voice as a designer. The class delves into issues that affect the field of graphic design and will continue to shape culture and history. Students are asked to question ideas of community and to expand on their ideas with examples through media and technology. Students critically question notions of history, psychology and social behaviors. The writing and criticism of advertising, communication, design artifacts and culture are the primary communication tool of the class, which is completed through papers and personal reflections.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

## Viticulture and Enology (VIN)

**VIN 10500 MOLECULAR PRINCIPLES IN GRAPE AND WINE 4 Credit Hours**

Covers the basic chemistry involved in the wine and winemaking process. Includes basic understanding of the chemistry involved in the fermentation process, flavor, aroma and color of wine.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 4 lecture

**Grade Mode:** Standard Letter-IP

**VIN 11100 INTRODUCTION TO VITICULTURE AND VINEYARD ESTABLISHMENT 3 Credit Hours**

Introduces students to current practices for establishing a commercial vineyard and maintaining its health and productivity once established.

Topics covered include varietal selection, site preparation, equipment, site selection, first season establishment, vine growth development and training, trellis systems, vine propagation, weed control and vine disease control. Field work sessions consisting of 16 hours of hands-on experience is scheduled in area vineyards.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter-IP

**VIN 11200 BOTANICAL VITICULTURE 4 Credit Hours**

Provides students with an overview of the plant kingdom and an examination of grapevine form and function from a botanical perspective.

**Prerequisite:** None.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 3 lecture, 2 lab

**Grade Mode:** Standard Letter-IP

**VIN 11392 WINTER VITICULTURE FIELDWORK (ELR) 2 Credit Hours**

(Repeatable for credit) Provides students initiated in the field of viticulture practical experience in winter vineyard operations. Students are required to partner with an approved vineyard to participate in the required fieldwork portion of the course, which serves as experience for those seeking employment in commercial viticulture.

**Prerequisite:** VIN 11100.

**Schedule Type:** Field Experience, Lecture

**Contact Hours:** 1.5 lecture, 2.5 other

**Grade Mode:** Standard Letter-IP

**Attributes:** Experiential Learning Requirement

**VIN 11492 SPRING VITICULTURE FIELDWORK (ELR) 2 Credit Hours**

(Repeatable for credit) Designed to provide students initiated in the field of viticulture practical experience in spring vineyard operations. Students are required to partner with an approved vineyard to participate in the required fieldwork experience portion of the course, which serves as experience for those seeking employment in commercial viticulture.

**Prerequisite:** VIN 11100.

**Schedule Type:** Field Experience, Lecture

**Contact Hours:** 1.5 lecture, 2.5 other

**Grade Mode:** Standard Letter-IP

**Attributes:** Experiential Learning Requirement

**VIN 11592 SUMMER/FALL VITICULTURE FIELDWORK (ELR) 2 Credit Hours**

(Repeatable for credit) Provides viticulture students practical experience in summer and fall vineyard operations. Students are required to partner with an approved vineyard to participate in the required fieldwork portion of the course, which serves as experience for those seeking employment in commercial viticulture.

**Prerequisite:** VIN 11100.

**Schedule Type:** Field Experience, Lecture

**Contact Hours:** 1.5 lecture, 2.5 other

**Grade Mode:** Standard Letter-IP

**Attributes:** Experiential Learning Requirement

**VIN 11800 INTRODUCTION TO BREWING 3 Credit Hours**

This course is designed to introduce students to the basic principles of brewing on the home scale with an overview of brewing on the commercial scale. Students will learn about brewing, malt extracts, beer kits, brewing sugars, water, hops, yeast, boiling and cooling, fermentation, lagering beer, and priming and bottling. At the conclusion of this class, students will have the knowledge to brew small batches of beer successfully on the home scale. Prerequisite: None Pre/corequisites: None

**Corequisites:** None

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter-IP

**VIN 20095 SPECIAL TOPICS IN VITICULTURE AND ENOLOGY 1-3 Credit Hours**

(Repeatable for a maximum of 9 credit hours) Various special topics to be announced in the Schedule of Classes, offering current topics in viticulture and enology.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 1-3 lecture

**Grade Mode:** Standard Letter

**VIN 21100 INTEGRATED PEST MANAGEMENT 2 Credit Hours**

Effective grape production depends on the grower developing a system of grape management that is appropriate for each vineyard. Decisions need to be made for how to manage all of the normal cultural practices such as planting, fertility, harvesting and pruning, as well as managing the insect, disease and weed problems that occur either regularly or sporadically. Course addresses management issues related to common, expected pest problems, as well as the occasional appearance of minor pest problems.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter-IP

**VIN 21300 REGIONAL VINEYARD MANAGEMENT 2 Credit Hours**

A general study of vineyard management in the general wine growing regions in the Continental United States. Covers management of the mature vineyard from region to region and builds on the topics covered in prerequisite course.

**Prerequisite:** VIN 11100.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter-IP

**VIN 29300 SOILS FOR VITICULTURE 3 Credit Hours**

Explores soil properties and behavior and their influence on wines. Focuses not only on growth and production, but on the long-term effects of viticulture on soil quality and the wider environment.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter-IP

## Women's Studies (WMST)

**WMST 20095 SPECIAL TOPICS IN WOMEN'S STUDIES 1-5 Credit Hours**

(Repeatable for credit) Study of particular contemporary figures, events and social practices or phenomenon as they relate to women's studies. This includes women and war, women and work and women and interpersonal violence.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 1-5 lecture

**Grade Mode:** Standard Letter

**WMST 20193 VARIABLE TITLE WORKSHOP IN WOMEN'S STUDIES 1-6 Credit Hours**

(Repeatable for credit) Workshop focused on a specific topic within women's studies.

**Prerequisite:** None.

**Schedule Type:** Workshop

**Contact Hours:** 1-6 other

**Grade Mode:** Satisfactory/Unsatisfactory

**WMST 30000 COLLOQUIUM IN WOMEN'S STUDIES (DIVD) 3 Credit Hours**

A critical investigation of the position and category of women from a cross-cultural, historical and interdisciplinary perspective, with special emphasis on major themes and issues in women's studies. Issues including race, ethnicity and sexuality are addressed.

**Prerequisite:** Junior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Diversity Domestic

**WMST 30001 FEMINIST THEORY 3 Credit Hours**

An examination of important historical and contemporary works of feminist theory and their influence on the development of feminist thought and practice in the United States and worldwide. Issues including race, ethnicity and sexuality are addressed.

**Prerequisite:** COMM 35912 or CRIM 37411 or ENG 21002 or ENG 33013 or ENG 33014 or GER 41332 or HIST 31075 or PAS 33110 or PAS 37100 or PAS 37200 or PHIL 31040 or POL 40470 or SOC 42315 or WMST 20095 or WMST 30000 or WMST 30095 or WMST 30100; and junior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**WMST 30095 SPECIAL TOPICS IN WOMEN'S STUDIES II 1-5 Credit Hours**

(Repeatable for credit) Study of selected topics in women's studies organized around historical and theoretical issues and movements. This includes contemporary feminist theory, suffragist movement and third wave feminism.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 1-5 lecture

**Grade Mode:** Standard Letter

**WMST 30100 HISTORY OF WOMEN IN THE UNITED STATES 3 Credit Hours**

(Cross-listed with HIST 31075) An exploration of the political, economic, social, intellectual and cultural forces that have shaped women's lives, women's thought, perceptions of womanhood and feminism, from 1607 to the present in what is now the United States.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**WMST 30196 WOMEN STUDIES INDIVIDUAL INVESTIGATION 1-3 Credit Hours**

(Repeatable for credit) The design and completion of a scholarly research project related to women's studies, and the presentation of findings at the end of the term. Arrangements must be made in the semester prior to registration.

**Prerequisite:** Special approval by instructor.

**Schedule Type:** Individual Investigation

**Contact Hours:** 3-9 other

**Grade Mode:** Standard Letter

**WMST 40095 SPECIAL TOPICS IN WOMEN'S STUDIES III 1-5 Credit Hours**

(Repeatable for credit) Informed study of critical issues in women's studies from an international or global perspective. Specific topic varies per course offering.

**Prerequisite:** WMST 30000 or WMST 30001.

**Schedule Type:** Lecture

**Contact Hours:** 1-5 lecture

**Grade Mode:** Standard Letter

**WMST 40193 VARIABLE TITLE WORKSHOP IN WOMEN'S STUDIES 1-6 Credit Hours**

(Repeatable for credit) Workshop focused on a specific topic within women's studies.

**Prerequisite:** None.

**Schedule Type:** Workshop

**Contact Hours:** 1-6 other

**Grade Mode:** Satisfactory/Unsatisfactory

**WMST 40992 PRACTICUM IN WOMEN'S STUDIES (ELR) 3 Credit Hours**

(Repeatable for credit) An assignment at a private, public or nonprofit organization that centers on women's issues such as education health and policy making. Arrangements must be made in the semester prior to registration.

**Prerequisite:** Special approval.

**Schedule Type:** Practical Experience

**Contact Hours:** 9 other

**Grade Mode:** Standard Letter

**Attributes:** Experiential Learning Requirement



# PROGRAMS A-Z

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## A

- Accessories - Minor
- Accounting - B.B.A.
- Accounting - M.S.A.
- Accounting - Minor
- Accounting Technology - A.A.B.
- Acting for the Returning Professional - M.F.A.
- Actuarial Mathematics - B.S.
- Adapted Physical Education Endorsement Preparation - Non-Degree
- Addictions Counseling - Graduate Certificate
- Addictions Counseling - Undergraduate Certificate
- Adult Gerontology Acute Care Nurse Practitioner - Graduate Certificate
- Adult Gerontology Clinical Nurse Specialist - Graduate Certificate
- Adult Gerontology Primary Care Nurse Practitioner - Graduate Certificate
- Adult/Adolescent Sexual Assault Nurse Examiner - Graduate Certificate
- Advertising - B.S.
- Advertising - Minor
- Aeronautical Systems Engineering Technology - B.S.
- Aeronautics - B.S.
- Aerospace Engineering - B.S.
- African Studies - Minor
- Agribusiness - B.S.
- Agribusiness - Minor
- Aircraft Dispatch - Minor
- Alcohol, Tobacco and Other Drug Prevention - Undergraduate Certificate
- American Sign Language - B.A.
- American Sign Language - Minor
- American Sign Language/English Interpreting - B.S.
- American Sign Language/English Interpreting Licensure Preparation (Non-degree)
- Ancient, Medieval and Renaissance Studies - Minor
- Anthropology - M.A.
- Anthropology - B.A.
- Anthropology - B.S.
- Anthropology - Minor
- Applied Engineering - B.S.
- Applied Geology - Ph.D.
- Applied Mathematics - B.S.
- Applied Mathematics - M.A.
- Applied Mathematics - M.S.
- Applied Mathematics - Minor
- Applied Mathematics - Ph.D.
- Applied Statistics - Minor
- Arabic - Minor
- Architectural History - Minor
- Architectural Studies - B.A.

- Architectural Studies - Minor
- Architecture - B.S.
- Architecture - M.Arch.
- Architecture and Environmental Design - M.S.
- Art Education - B.A.
- Art Education - M.A.
- Art History - B.A.
- Art History - M.A.
- Art History - Minor
- Arts Entrepreneurship - Minor
- Associate of Arts
- Associate of Science
- Athletic Coaching - Minor
- Athletic Training - B.S.
- Athletic Training - M.S.
- Audio Recording - Minor
- Audiology - Au.D.
- Audiology - M.A.
- Audiology - Ph.D.
- Autism Spectrum Disorders - Graduate Certificate
- Autism Spectrum Disorders - Minor
- Aviation Law and Policy - Minor
- Aviation Management - Minor
- Aviation Management and Logistics - M.S.
- Aviation Weather - Minor

## B

- Behavioral Intervention Specialist - Graduate Certificate
- Biological Sciences - Botany - M.S.
- Biological Sciences - Botany - Ph.D.
- Biological Sciences - Cell Biology and Molecular Genetics - M.S.
- Biological Sciences - Cell Biology and Molecular Genetics - Ph.D.
- Biological Sciences - Ecology and Evolutionary Biology - M.S.
- Biological Sciences - Ecology and Evolutionary Biology - Ph.D.
- Biological Sciences - Integrative Physiology and Neurobiology - M.S.
- Biological Sciences - Integrative Physiology and Neurobiology - Ph.D.
- Biological Sciences - Minor
- Biology - B.A.
- Biology - B.S.
- Biology - M.A.
- Biology - M.S.
- Biomedical Sciences - Cellular and Molecular Biology - M.S.
- Biomedical Sciences - Cellular and Molecular Biology - Ph.D.
- Biomedical Sciences - Human Evolutionary Biology - Ph.D.
- Biomedical Sciences - Neurosciences - M.S.
- Biomedical Sciences - Neurosciences - Ph.D.
- Biomedical Sciences - Pharmacology - M.S.
- Biomedical Sciences - Pharmacology - Ph.D.
- Biomedical Sciences - Physiology Interdisciplinary - M.S.
- Biomedical Sciences - Physiology Interdisciplinary - Ph.D.
- Biotechnology - B.S.
- Botany - B.S.

- Business - Minor
- Business Administration (Executive M.B.A.) - M.B.A.
- Business Administration - M.B.A.
- Business Administration - Ph.D.
- Business Analytics - Graduate Certificate
- Business Analytics - M.S.
- Business French - Minor
- Business German - Minor
- Business Management - B.B.A.
- Business Management Technology - A.A.B.
- Business Management Technology - Undergraduate Certificate
- Business Russian - Minor
- Business Spanish - Minor

## C

- CAD for Manufacturing - Undergraduate Certificate
- Career - Technical Teacher Education - M.Ed.
- Career and Academic Advising - Graduate Certificate
- Career and Community Studies (Non-Degree)
- Career and Community Studies-College Preparation (Non-Degree)
- Career and Community Studies-Employment Readiness (Non-Degree)
- Career-Based Intervention Endorsement Preparation - Non-Degree
- Career-Technical Teacher Education - Graduate Certificate
- Career-Technical Teacher Education - Undergraduate Certificate
- Ceramics - Minor
- Chemistry - B.A.
- Chemistry - B.S.
- Chemistry - M.A.
- Chemistry - M.S.
- Chemistry - Minor
- Chemistry - Ph.D.
- Chinese - Minor
- Classics - B.A.
- Classics - Minor
- Climate Change - Minor
- Clinical Epidemiology - M.S.
- Clinical Mental Health Counseling - M.Ed.
- Clinical Psychology - M.A.
- Clinical Psychology - Ph.D.
- Clinical Rehabilitation Counseling - M.Ed.
- College Teaching - Graduate Certificate
- Columbus Program in Intergovernmental Issues
- Communication and Information - Ph.D.
- Communication Studies - B.A.
- Communication Studies - M.A.
- Communication Studies - Minor
- Community College Leadership - Graduate Certificate
- Community Health Education - B.S.
- Community Health Education - Minor
- Computer Engineering Technology - B.S.
- Computer Engineering Technology - Minor

- Computer Forensics and Information Security - Undergraduate Certificate
- Computer Forensics and Security - Minor
- Computer Information Systems - B.B.A.
- Computer Information Systems - Minor
- Computer Science - B.A.
- Computer Science - B.S.
- Computer Science - M.A.
- Computer Science - M.S.
- Computer Science - Minor
- Computer Science - Ph.D.
- Computer Science Endorsement Preparation - Non-Degree
- Computer Technology Endorsement Preparation - Non-Degree
- Computer-Aided Drafting/Design Technician - Undergraduate Certificate
- Conducting - M.M.
- Construction Management - B.S.
- Construction Management - M.S.
- Construction Management - Minor
- Cooperative Education Program
- Costume Design and Technology - Minor
- Counseling - Ed.S.
- Counselor Education and Supervision - Ph.D.
- Creative Writing - M.F.A.
- Creative Writing - Minor
- Criminology and Criminal Justice - M.A.
- Criminology and Justice Studies - A.A.S.
- Criminology and Justice Studies - B.A.
- Criminology and Justice Studies - Minor
- Cultural Foundations - M.A.
- Cultural Foundations - M.Ed.
- Cultural Foundations - Ph.D.
- Curriculum and Instruction - Ed.S.
- Curriculum and Instruction - M.Ed.
- Curriculum and Instruction - Ph.D.
- Cybersecurity Engineering - B.S.

## D

- Dance - B.F.A.
- Dance - Minor
- Dance Studies - B.A.
- Data Analytics - Minor
- Deaf Education Multiple Disabilities - Graduate Certificate
- Deaf Education Multiple Disabilities - Undergraduate Certificate
- Design - Minor
- Digital Media Production - B.S.
- Digital Media Production - Minor
- Digital Sciences - B.A.
- Digital Sciences - M.D.S.
- Disability Studies and Community Inclusion - Graduate Certificate
- Disability Studies and Community Inclusion - Minor
- Doctoral Accounting - Minor

- Doctoral Applied Statistics - Minor
- Doctoral Finance - Minor
- Doctoral Information Systems - Minor
- Doctoral International Business - Minor
- Doctoral Management Systems - Minor
- Doctoral Marketing - Minor
- Drawing - Minor

## E

- Early Childhood Deaf Education - Graduate Certificate
- Early Childhood Education (PK-3) Additional Licensure Preparation - Non-Degree
- Early Childhood Education - B.S.E.
- Early Childhood Education - M.A.T.
- Early Childhood Education - M.Ed.
- Early Childhood Education Pre-Kindergarten (3-5 years) Endorsement Preparation - Non-Degree
- Early Childhood Education Technology - A.A.S.
- Early Childhood Generalist (Grades 4-5) Endorsement Preparation - Graduate Non-Degree
- Early Childhood Generalist (Grades 4-5) Endorsement Preparation - Undergraduate Non-Degree
- Early Intervention - Graduate Certificate
- Early Intervention - Minor
- Earth Science - B.A.
- Earth Science - B.S.E.
- Earth Science- Minor
- eBusiness - Undergraduate Certificate
- Economics - B.A.
- Economics - B.B.A.
- Economics - M.A.E.
- Economics - Minor
- Education - Minor
- Educational Leadership K-12 - Ed.S.
- Educational Leadership K-12 - M.Ed.
- Educational Leadership K-12 - Ph.D.
- Educational Psychology - M.A.
- Educational Psychology - M.Ed.
- Educational Psychology - Ph.D.
- Educational Studies - B.S.
- Educational Technology - M.Ed.
- Electrical/Electronic Engineering Technology - A.A.S.
- Electronic Technology - Minor
- Emerging Media and Technology - B.S.
- Engineering Technology - B.S.
- Engineering Technology - M.E.T.
- English - B.A.
- English - M.A.
- English - Minor
- English - Ph.D.
- English - Rhetoric and Composition - Ph.D.
- Enology - A.A.S.
- Enology -Undergraduate Certificate

- Enterprise Architecture - Graduate Certificate
- Enterprise Architecture - Graduate Certificate
- Entrepreneurship - B.B.A.
- Entrepreneurship - Undergraduate Certificate
- Entrepreneurship for Business Majors - Minor
- Entrepreneurship for Non-Business Majors - Minor
- Environment Management - A.T.S.
- Environmental and Conservation Biology - B.S.
- Environmental Geographic Information Science - Graduate Certificate
- Environmental Geology - Minor
- Environmental Health and Safety - A.A.S.
- Environmental Health Sciences - Minor
- Environmental Studies - B.A.
- Environmental Studies - Minor
- Ethnomusicology - M.A.
- Evaluation and Measurement - M.Ed.
- Evaluation and Measurement - Ph.D.
- Event Planning - Minor
- Exercise Physiology - M.S.
- Exercise Physiology - Ph.D.
- Exercise Science - B.S.
- Exploratory Pre-Major

## F

- Family Nurse Practitioner - Graduate Certificate
- Fashion Design - B.A.
- Fashion Design - B.F.A.
- Fashion Industry Studies - M.F.I.S.
- Fashion Media - Minor
- Fashion Media - Minor
- Fashion Merchandising - B.S.
- Finance - B.B.A.
- Finance - Minor
- Floriculture - Undergraduate Certificate
- Forensic Anthropology - Minor
- French - B.A.
- French - M.A.
- French - Minor

## G

- Game Design - Minor
- General Business - B.B.A.
- Geographic Information Science - Graduate Certificate
- Geographic Information Science - M.GISc
- Geographic Information Science - Minor
- Geography - B.A.
- Geography - M.S.
- Geography - Minor
- Geography - Ph.D.
- Geology - B.A.
- Geology - B.S.
- Geology - M.S.

- Geology - Minor
- German - B.A.
- German - M.A.
- German - Minor
- German Studies - Minor
- Gerontology - Graduate Certificate
- Gerontology - Minor
- Gifted Education Endorsement Preparation - Non-Degree
- Glass - Minor
- Global Communication - Minor
- Greek - Minor
- Greenhouse Production - Undergraduate Certificate

## H

- Health Care Ethics - Minor
- Health Communication - Minor
- Health Education and Promotion - M.Ed.
- Health Education and Promotion - Ph.D.
- Health Informatics - Graduate Certificate
- Health Informatics - M.S.
- Health Services Administration - Minor
- Health Systems and Facilities Design - Graduate Certificate
- Healthcare Design - M.H.D.
- Healthcare Systems Management for Business Majors - Minor
- Healthcare Systems Management for Non-Business Majors - Minor
- Help Desk Support - Minor
- Higher Education Administration - Ph.D.
- Higher Education Administration and Student Affairs - Ed.S.
- Higher Education Administration and Student Affairs - M.Ed.
- Historic Preservation - Minor
- History - B.A.
- History - M.A.
- History - Minor
- History - Ph.D.
- History and Philosophy of Science - Minor
- Honors College
- Horticulture - B.A.H.
- Horticulture Technology - A.A.S.
- Hospitality and Tourism Management - M.S.
- Hospitality Management - B.S.
- Hospitality Management - Minor
- Hospitality Management - Undergraduate Certificate
- Human Development and Family Studies - B.S.
- Human Development and Family Studies - M.A.
- Human Development and Family Studies - Minor
- Human Resource Management - B.B.A.
- Human Resource Management - Minor
- Human Services - A.A.S.
- Human Sexuality - Minor

## I

- Individualized Program - A.T.S
- Information Design - Minor
- Information Technology - A.A.B.
- Information Technology - B.S.I.T.
- Innovation - Minor
- Institutional Research and Assessment - Graduate Certificate
- Insurance Studies - B.S.
- Insurance Studies - Minor
- Integrated Health Studies - B.S.
- Integrated Language Arts - B.S.E.
- Integrated Language Arts Additional Licensure Preparation - Non-Degree
- Integrated Mathematics - B.S.E.
- Integrated Mathematics Additional Licensure Preparation - Non-Degree
- Integrated Science - B.S.E.
- Integrated Science Additional Licensure Preparation - Non-Degree
- Integrated Social Studies - B.S.E.
- Integrated Social Studies Additional Licensure Preparation - Non-Degree
- Integrative Studies - B.I.S.
- Interior Design - B.A.
- International Business for Business Majors - Minor
- International Business for Non-Business Majors - Minor
- International Relations - B.A.
- Internationalization of Higher Education - Graduate Certificate
- Interpersonal Communication - Minor
- Interprofessional Leadership - Ed.D.
- Italian - Minor
- Italian Studies - Minor

## J

- Japanese - Minor
- Jazz Studies - Minor
- Jewelry, Metals and Enameling - Minor
- Jewish Studies - Minor
- Journalism - B.S.
- Journalism and Mass Communication - M.A.

## K

- Knowledge Management - M.S.

## L

- Landscape Architecture - M.L.A. I
- Landscape Architecture - M.L.A. II
- Latin - M.A.
- Latin - Minor
- Latin American Studies - Minor
- Leadership - Minor
- Legal Assisting Technology - A.A.S.
- Lesbian, Gay, Bisexual, Transgender and Queer Studies - Minor

- Liberal Studies - L.S.M.
- Library and Information Science - M.L.I.S.
- Life Science - B.S.E.
- Life Science/Chemistry - B.S.E.
- Lighting Design and Technology - Minor
- Long-Term Care Administration - B.S.

## M

- Management for Business Majors - Minor
- Management for Non-Business Majors - Minor
- Managerial Marketing - B.B.A.
- Marketing - B.B.A.
- Marketing - Minor
- Materials Sciences - M.S.
- Materials Sciences - Ph.D.
- Mathematics - B.A.
- Mathematics - B.S.
- Mathematics - Minor
- Mathematics for Secondary Teachers - M.A.
- Mechanical Engineering Technology - A.A.S.
- Mechanical Engineering Technology - B.S.
- Mechatronics Engineering - B.S.
- Mechatronics Engineering Technology - B.S.
- Media Advocacy - Minor
- Media Literacy - Minor
- Medical Anthropology - Minor
- Medical Billing - Undergraduate Certificate
- Medical Technology - B.S.
- Middle Childhood Education (4-9) Language Arts/Reading and Mathematics Initial Licensure Preparation - Non-Degree
- Middle Childhood Education (4-9) Language Arts/Reading and Science Initial Licensure Preparation - Non-Degree
- Middle Childhood Education (4-9) Mathematics and Science Initial Licensure Preparation - Non-Degree
- Middle Childhood Education (4-9) Mathematics and Social Studies Initial Licensure Preparation - Non-Degree
- Middle Childhood Education (4-9) Social Studies and Language Arts/Reading Initial Licensure Preparation - Non-Degree
- Middle Childhood Education (4-9) Social Studies and Science Initial Licensure Preparation - Non-Degree
- Middle Childhood Education - B.S.E.
- Middle Childhood Education—Language Arts and Reading (4-9) Additional Licensure Preparation - Non-Degree
- Middle Childhood Education—Mathematics (4-9) Additional Licensure Preparation - Non-Degree
- Middle Childhood Education—Science (4-9) Additional Licensure Preparation - Non-Degree
- Middle Childhood Education—Social Studies (4-9) Additional Licensure Preparation - Non-Degree
- Middle Childhood Generalist Science (4-6) Endorsement Preparation
- Middle Childhood Generalist Social Studies (4-6) Endorsement Preparation - Non-Degree
- Mild to Moderate Special Education - Minor
- Military and Leadership Studies - Minor

- Modeling and Animation - Minor
- Music - B.A.
- Music - B.M.
- Music - Minor
- Music Composition - M.A.
- Music Education - B.M.
- Music Education - M.M.
- Music Education - Ph.D.
- Music Technology - B.S.
- Music Technology - Minor
- Music Theory - M.A.
- Music Theory - Composition - Ph.D.
- Musical Theatre - B.F.A.

## N

- Neuroscience - B.S.
- Nonprofit Management - Graduate Certificate
- Nonprofit Studies - Minor
- Nurse Educator - Graduate Certificate
- Nursing (A.D.N.) - A.A.S.
- Nursing - B.S.N.
- Nursing - D.N.P.
- Nursing - M.S.N.
- Nursing - Ph.D.
- Nursing Administration and Health Systems Leadership - Graduate Certificate
- Nursing for Registered Nurses - B.S.N.
- Nursing Home Administration - Graduate Certificate
- Nutrition - B.S.
- Nutrition - M.S.

## O

- Occupational Therapy Assistant Technology - A.A.S.
- Office Software Applications - Undergraduate Certificate
- Office Technology - A.A.B.
- Ohio Superintendent's Licensure - Graduate Certificate
- Online and Blended Learning - Graduate Certificate
- Organizational Communication - Minor

## P

- Painting - Minor
- Paleontology - Minor
- Pan-African Studies - B.A.
- Pan-African Studies - Minor
- Paralegal Studies - B.A.
- Paralegal Studies - Minor
- Paralegal Studies - Undergraduate Certificate
- Park Management - Minor
- Peace and Conflict Studies - B.A.
- Peace and Conflict Studies - Minor
- Peace Officers Training Academy - Undergraduate Certificate
- Pediatric Primary Care Nurse Practitioner - Graduate Certificate



- Performance - M.M.
- Philosophy - B.A.
- Philosophy - M.A.
- Philosophy - Minor
- Photography - B.F.A.
- Photography - Minor
- Photojournalism - Minor
- Physical Education and Sport Performance - B.S.
- Physical Science - B.S.E.
- Physical Therapist Assistant Technology - A.A.S.
- Physics - B.A.
- Physics - B.S.
- Physics - M.A.
- Physics - M.S.
- Physics - Minor
- Physics - Ph.D.
- Podiatric Medicine - D.P.M.
- Political Science - B.A.
- Political Science - M.A.
- Political Science - Minor
- Political Science - Ph.D.
- Pre-Dentistry Advising Program
- Pre-Law - Minor
- Pre-Law Advising Program
- Pre-Medicine/Pre-Osteopathy Advising Program
- Pre-Pharmacy Advising Program
- Pre-Veterinary Medicine Advising Program
- Principal Grades 4-9 Licensure Preparation - Non-Degree
- Principal Grades 5-12 Licensure Preparation - Non-Degree
- Principal Grades PK-6 Licensure Preparation - Non-Degree
- Print Media and Photography - Minor
- Professional and Technical Writing - Minor
- Professional Pilot - Minor
- Professional Sales - Undergraduate Certificate
- Psychiatric Mental Health Nurse Practitioner - Graduate Certificate
- Psychological Science - M.A.
- Psychological Science - Ph.D.
- Psychology - B.A.
- Psychology - B.S.
- Psychology - Minor
- Public Administration - M.P.A.
- Public Communication - Minor
- Public Health - B.S.P.H.
- Public Health - M.P.H.
- Public Health - Minor
- Public Health - Ph.D.
- Public Health - Undergraduate Certificate
- Public Relations - B.S.
- Public Relations - Minor
- Pure Mathematics - M.A.
- Pure Mathematics - M.S.
- Pure Mathematics - Ph.D.

## Q

- Qualitative Research - Graduate Certificate

## R

- Radiologic Imaging Sciences - B.R.I.T.
- Radiologic Technology - A.A.S.
- Radiologic Technology - A.T.S.
- Reading Specialization - M.Ed.
- Recreation Management - Minor
- Recreation, Park and Tourism Management - B.S.
- Religion Studies - Minor
- Respiratory Care - B.S.
- Respiratory Therapy Technology - A.A.S.
- Russian - Minor
- Russian Literature, Culture and Translation - B.A.
- Russian Studies - Minor

## S

- Safety, Quality and Lean in Manufacturing - Minor
- Scene Design - Minor
- Scenic Technology - Minor
- School Counseling - M.Ed.
- School Health Education (P-12) Additional Licensure Preparation - Non-Degree
- School Health Education - B.S.E.
- School Library Media K-12 - M.L.I.S.
- School Library Media Licensure (Non-Degree)
- School Psychology - Ed.S.
- School Psychology - M.Ed.
- School Psychology - Ph.D.
- Sculpture and Expanded Media - Minor
- Secondary Education - M.A.T.
- Sociology - B.A.
- Sociology - M.A.
- Sociology - Minor
- Sociology - Ph.D.
- Software Development - Minor
- Spanish - B.A.
- Spanish - M.A.
- Spanish - Minor
- Special Education - B.S.E.
- Special Education - Ed.S.
- Special Education - M.Ed.
- Special Education - Ph.D.
- Special Education Deaf Education Additional Licensure Preparation - Non-Degree
- Special Education Deaf Education Initial Licensure Preparation - Non-Degree
- Special Education Early Childhood (PK-5) Additional Licensure Preparation - Non-Degree
- Special Education Early Childhood (PK-5) Initial Licensure Preparation - Non-Degree

- Special Education Mild/Moderate Needs Additional Licensure Preparation - Non-Degree
- Special Education Mild/Moderate Needs Initial Licensure Preparation - Non-Degree
- Special Education Moderate/Intensive Needs Additional Licensure Preparation - Non-Degree
- Special Education Moderate/Intensive Needs Initial Licensure Preparation - Non-Degree
- Special Education Pre-K Special Needs Endorsement Preparation - Non-Degree
- Special Education Transition-to-Work Endorsement Preparation - Non-Degree
- Speech Language Pathology - M.A.
- Speech Language Pathology - Ph.D.
- Speech Pathology and Audiology - B.S.
- Sport Administration - B.S.
- Sport Administration - M.A.
- Sport Administration - Minor
- Sport, Exercise and Performance Psychology - Minor
- Sports Medicine - B.S.
- Sports Medicine - Minor
- Studies in Globalization, Identity and Space - Minor
- Studio Art - B.A.
- Studio Art - B.F.A.
- Studio Art - M.A.
- Studio Art - M.F.A.
- Sustainability - Minor

**T**

- Teaching English as a Foreign Language - Undergraduate Certificate
- Teaching English as a Second Language - B.A.
- Teaching English as a Second/Foreign Language - Graduate Certificate
- Teaching English as Second Language - M.A.
- Teaching English as Second Language Endorsement Preparation (Graduate Non-Degree)
- Teaching English as Second Language Endorsement Preparation (Undergraduate Non-Degree)
- Technical and Applied Studies - B.T.A.S.
- Technical Modeling Design - A.A.S.
- Technology - Minor
- Textiles - Minor
- Theatre and Social Change - Minor
- Theatre Design and Technology - M.F.A.
- Theatre Design, Technology and Production - B.F.A.
- Theatre Management - Minor
- Theatre Performance - Minor
- Theatre Sound - Minor
- Theatre Studies - B.A.
- Tourism Management - Minor
- Translation - B.S.
- Translation - M.A.
- Translation Studies - Ph.D.

**U**

- Unmanned Aircraft Systems - Minor
- Urban Design - M.U.D.
- Urban Studies - Minor
- User Experience Design - M.S.
- User Experience Design - Minor
- User Experience Design - Minor

**V**

- Veterinary Technology - A.A.S.
- Visual Communication Design - B.A.
- Visual Communication Design - B.F.A.
- Visual Communication Design - M.A.
- Visual Communication Design - M.F.A.
- Visual Journalism - Minor
- Viticulture - A.A.S.
- Viticulture -Undergraduate Certificate

**W**

- Washington Program in National Issues
- Web Development - Minor
- Web-Enabled E-Learning Knowledge Management - Graduate Certificate
- Women's Health Nurse Practitioner - Graduate Certificate
- Women's Studies - Minor
- World Literature and Cultures - Minor
- World Music- Minor

**Z**

- Zoology - B.S.

# UNDERGRADUATE UNIVERSITY REQUIREMENTS

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Destination Kent State: First Year Experience

Diversity Course Requirement

Experiential Learning Requirement

Kent Core (General Education Requirements)

Writing-Intensive Course Requirement

**Destination Kent State: First Year  
Experience**

**Diversity Course Requirement**

**Experiential Learning Requirement**

**Kent Core (General Education  
Requirement)**

**Writing-Intensive Course  
Requirement**

## COLLEGES

- College of Aeronautics and Engineering
- College of Applied and Technical Studies
- College of Architecture and Environmental Design
- College of Arts and Sciences
- College of Business Administration
- College of Communication and Information
- College of Education, Health and Human Services
- College of Nursing
- College of Podiatric Medicine
- College of Public Health
- College of the Arts
- Honors College
- University College

### College of Aeronautics and Engineering

#### College of Aeronautics and Engineering

Aeronautics and Technology Building  
Kent Campus  
330-672-2892  
cae@kent.edu  
www.kent.edu/cae

#### Academic Advising Office

127 Aeronautics and Technology Building  
Kent Campus  
330-672-2892  
<https://www.kent.edu/cae/advising>

### Mission

The mission of the College of Aeronautics and Engineering is to enhance technological literacy, education and training essential to the knowledge economy, socio-economic well-being and to the workforce development of the state of Ohio in general and Northeast Ohio in particular. The college's curricula leads to various certificates in emerging/high-technology areas and to a seamless articulation with technical associate, bachelor's and master's degree programs with global perspectives for careers in business, industry, education and government sectors.

### Undergraduate Programs

- Aeronautical Systems Engineering Technology - B.S.
- Aeronautics - B.S.
- Aerospace Engineering - B.S.
- Applied Engineering - B.S.
- Computer Engineering Technology - B.S.
- Cybersecurity Engineering - B.S.
- Mechanical Engineering Technology - B.S.
- Mechatronics Engineering - B.S.
- Mechatronics Engineering Technology - B.S.

### Minors

- Aircraft Dispatch
- Aviation Law and Policy
- Aviation Management
- Aviation Weather
- Computer Engineering Technology
- Electronic Technology
- Professional Pilot
- Innovation
- Safety, Quality and Lean in Manufacturing
- Sustainability
- Technology
- Unmanned Aircraft Systems

### Graduate Programs

- Aviation Management and Logistics - M.S.
- Engineering Technology - M.E.T.

### College of Aeronautics and Engineering Faculty

- Abdul-Aziz, Ali (2016), Associate Professor, Ph.D., Cleveland State University, 1985
- Amiruzzaman, Md (2009), Assistant Professor, Ph.D., Kent State University, 2016
- Armann, George (2015), Lecturer, B.S., Ohio University, 2006
- Bloebaum, Christina L. (2018), Professor & Dean
- Boergerhoff, Jason T. (2010), Associate Professor, M.S., University of North Dakota, 2010
- Boyd, Darwin L. (1983), Assistant Professor, Ph.D., Kent State University, 1991
- Chen, Xuhui (2019), Assistant Professor, Ph.D., Case Western Reserve University, 2019
- Chowdhury, Aminur R. (1997), Professor, Ed.D., West Virginia University, 1979
- Dorsey, C M. (2011), Lecturer, B.S., Kent State University, 1973
- Du, Yanhai (2013), Associate Professor, Ph.D., University of Waikato, 2004
- Fisch, Michael R. (1998), Associate Professor, Ph.D., Harvard College, 1982
- Hassler, Richard P. (2018), Assistant Professor
- Koptur, Evren (2003), Assistant Professor, Ph.D., Kent State University, 2016
- Kunda, Sarath C. (2014), Lecturer, M.D.S., Kent State University, 2015
- LaBerge, Kelsen E. (2018), Associate Professor
- Liu, Rui (2019), Assistant Professor, Ph.D., Colorado School of Mines, 2018
- Lorenzon, Jason (2007), Lecturer, J.D., Cleveland State University, 2007
- Lu, Ye (2019), Assistant Professor, Ph.D., 2019
- Mangrum, Richard L. (2003), Professor, Ed.D., Oklahoma State University, 2003
- McFarland, Maureen R. (2003), Assistant Professor & Associate Dean, Ph.D., Kent State University, 2017

- Merriman, Jenna (2017), Lecturer
- Mirinejad, Hossein (2019), Assistant Professor
- Nettey, Richmond I. (2001), Professor, Ph.D., University of Houston, 2000
- Oh, Chang-Geun (2016), Assistant Professor, Ph.D., Wright State University, 2015
- Palcho, Timothy L. (2000), Professor
- Ripple, James E. (2008), Assistant Professor, B.A., Kent State University, 1991
- Shen, Tao (2019), Assistant Professor
- Song, Shin-Min (2012), Professor, Ph.D., The Ohio State University, 1984
- Stringer, David B. (2013), Associate Professor, Ph.D., University of Virginia, Main Campus, 2008
- Testa, Michael (2017), Lecturer, M.S.M., University of Akron, 1997
- True, Trent (2004), Lecturer, M.Tech., Kent State University, 2007
- Uribe-Rendon, Roberto M. (1990), Professor, Ph.D., National Autonomous University of Mexico, 1986

## Aeronautics (AERN)

### AERN 12500 SURVEY OF AERONAUTICS 3 Credit Hours

This course provides an overview of the air transportation industry and gives students a broad overview of career requirements and opportunities in several fields to include professional piloting, air traffic control and aviation management. Student will gain historical perspective while learning about emerging trends.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

### AERN 15000 INTRODUCTION TO AERONAUTICS 3 Credit Hours

Introduction to aeronautical and aerospace technology, including historical development, underlying science and technical applications. The past, present and future social, economic, technical and political impact of aviation are also explored.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

### AERN 15250 FAA ORIENTATION 3 Credit Hours

Introduction to the Federal Aviation Administration with particular emphasis on its role and impact on air traffic management and the National Airspace System (NAS). Course addresses the unique aspects and requirements of federal employment, as well as federal regulations affecting flight operations and the FAA's associated supporting agencies.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

### AERN 15740 ELEMENTS OF FLIGHT THEORY 5 Credit Hours

Basic instruction in all areas which gives the student aeronautical knowledge required for a private pilot certificate.

**Corequisite:** AERN 15741.

**Schedule Type:** Lecture

**Contact Hours:** 5 lecture

**Grade Mode:** Standard Letter-IP

### AERN 15741 PRIVATE PILOT FLIGHT 5 Credit Hours

Flight course designed to fulfill FAA requirements for private pilot certificate. With special approval, this course may be repeated only once. Student is required to spend a minimum of 2 hours each day, five days a week, at the airport, until course requirements have been attained. When not flying, the student goes through personalized ground instruction. Minimum FAA flight time requirements towards the private pilot certificate is 48 hours. Actual flight training may exceed 48 hours. Special course fees apply. Please visit [www.kent.edu](http://www.kent.edu). Students must obtain Student Pilot Certificate and have and maintain valid medical and TSA approval prior to starting course.

**Prerequisite:** Must be a Professional Pilot concentration within the Aeronautics major.

**Corequisite:** AERN 15740 and MATH 11010.

**Schedule Type:** Flight Training

**Contact Hours:** 9 other

**Grade Mode:** Standard Letter-IP

### AERN 15745 NON-PILOT ELEMENTS OF FLIGHT THEORY 3 Credit Hours

Basic instruction in areas to include: Federal Regulations, navigation, communication, airspace, weather, basic aerodynamics, and aero-medical factors which give the student a foundation in aeronautics. This course does not satisfy the Federal Aviation Regulation requirement for endorsement to take the Airman Knowledge Exam for a private pilot nor does it satisfy the Aircraft Dispatch minor.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

### AERN 25100 INTRODUCTION TO AVIATION MANAGEMENT 3 Credit Hours

Introduction to the day-to-day concepts of Airline, Airport, and other businesses pertaining to the aviation industry.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

### AERN 25250 ELEMENTS OF AVIATION WEATHER 3 Credit Hours

Aviation weather provides a comprehensive look at the Earth's atmosphere, general patterns and specific phenomena, and a focus on weather as related to flight.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

### AERN 25251 WEATHER INFORMATION SYSTEMS 3 Credit Hours

Introduction to various weather sensing equipment and the systems that deliver weather information to various users. An in-depth look at the National Weather Service, NOAA, NASA, FAA and commercially available weather information systems.

**Prerequisite:** AERN 25250 or GEOG 31062.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter



**AERN 25252 THUNDERSTORMS AND SEVERE WEATHER 3 Credit Hours**

Analysis and forecast of thunderstorm and severe convective weather activity development and movement. Analysis of atmospheric information and clouds, radar, computer models, and charts. A study of mid-latitude cyclones and some focused study on tropical depressions, hurricanes, tornadoes, dust and sand storms. Study includes geographic effects and cyclone life cycles. Provides an in-depth look at the development of severe weather products for aviation such as AIRMET, SIGMET and Convective SIGMET.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**AERN 25350 FUNDAMENTALS OF AIR TRAFFIC CONTROL 2 Credit Hours**

Introduction to the National Airspace System (NAS) and the orders, manuals, and procedures associated with the purposes and directives of the air traffic control environment. Introduces and discusses those areas of required knowledge of the AT-Basics needed to become an Air Traffic Controller. These topics include the principles of flight, the FARs, navigation, aviation weather and other ATC related areas.

**Prerequisite:** Aeronautics major.

**Corequisite:** AERN 25351.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**AERN 25351 FUNDAMENTALS OF AIR TRAFFIC CONTROL LABORATORY 1 Credit Hour**

Introductory laboratory course on air traffic management and the National Airspace System, the orders, manuals and procedures associated with the purposes and directives of the air traffic control environment. To include purposes and responsibilities of the ATC system.

**Prerequisite:** Aeronautics major.

**Corequisite:** AERN 25350.

**Schedule Type:** Laboratory

**Contact Hours:** 2 lab

**Grade Mode:** Standard Letter

**AERN 25743 COMMERCIAL PILOT FLIGHT I 2 Credit Hours**

Advanced flight course providing flight instruction for the commercial pilot. Primary emphasis is on cockpit resource management, advanced navigational practices and basic instrument instruction. With special approval, this course may be repeated only once. Student is required to spend a minimum of two hours daily, four days a week, at the airport until all course requirements have been attained. When not flying, the student goes through personalized ground instruction. Special course fees apply. Please visit [www.kent.edu/cae](http://www.kent.edu/cae) for a list of fees.

**Prerequisite:** A minimum C grade in both AERN 15740 and AERN 15741; and minimum 2.500 overall GPA; and must be in the Flight Technology (FLGT) concentration in the Aeronautics (AERN) major.

**Corequisite:** AERN 25250 and MATH 11010.

**Schedule Type:** Flight Training

**Contact Hours:** 2 other

**Grade Mode:** Standard Letter-IP

**AERN 25800 INTRODUCTION TO UNMANNED AIRCRAFT SYSTEMS 3 Credit Hours**

An overview of unmanned aircraft systems. Course topics include the history, development, and evolution of unmanned aircraft; current and forecast trends and issues; capabilities and performance of unmanned aircraft; UAS applications; regulations governing unmanned aircraft systems; unmanned aircraft flight operations; and opportunities and career paths in unmanned aircraft systems.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**AERN 30000 PROFESSIONAL DEVELOPMENT IN AERONAUTICS 1 Credit Hour**

The course will build upon the lessons learned in Professional Development in Aeronautics I by providing direct opportunities for interviewing and networking with professionals working in the aeronautics industry. Students will continue preparation for a career in the aeronautics industry by revising and implementing their career plan and goals.

**Prerequisite:** Junior standing.

**Schedule Type:** Seminar

**Contact Hours:** 1 lecture

**Grade Mode:** Standard Letter

**AERN 35001 AIRCRAFT FABRICATION 3 Credit Hours**

The study and laboratory practice of government approved procedures used in the fabrication, repair and testing of certificated aircraft.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**AERN 35020 AIRCRAFT PROPULSION SYSTEMS 3 Credit Hours**

A study of basic reciprocating and gas turbine engine theory. Course investigates powerplant construction, component function, including propeller and fuel systems, ancillary systems that support aircraft propulsive systems and performance characteristics.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**AERN 35021 RADAR SATELLITE WEATHER INFORMATION 3 Credit Hours**

A study of satellite and radar imagery. A focus on both passive and active remote sensing systems. Student develops an understanding of the properties of meteorological radar sensing, signal propagation and estimating precipitation. Provides an in-depth look at radar and satellite products and their application to aircrew operations. Emphasis is placed on real-time identification of weather phenomena affecting a flight in progress.

**Prerequisite:** AERN 25250 or GEOG 31062.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**AERN 35022 WEATHER STRATEGY FOR AIRCREWS 3 Credit Hours**

Flying strategies for various weather conditions to include low ceilings and visibility, turbulence, cold weather, thunderstorms, and wind shear. An exploration of basic and advanced weather theory and how to get the best use of FAA and commercially available forecast products and briefing services. Course takes a condition-by-condition look at various hazardous weather phenomena.

**Prerequisite:** AERN 25250 or GEOG 31062.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**AERN 35030 INTRODUCTION TO CORPORATE AVIATION 3 Credit Hours**

Introduces students to the business and corporate sectors of commercial aviation. Examines business and corporate aviation from the joint perspectives of operations and maintenance management as well as flight operations.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**AERN 35031 AIR TRANSPORTATION INDUSTRY REGULATIONS 3 Credit Hours**

This course will examine the functions of the regulatory agencies in the aviation industry. The evolution of Administrative Regulation, Federal Aviation Regulation and the rule making process.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**AERN 35040 AIRCRAFT SYSTEMS I 3 Credit Hours**

In-depth study of various aircraft systems including electrical systems, environmental control systems, and fuel systems as applied to aircraft.

**Prerequisite:** PHY 13012.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**AERN 35150 AIRCRAFT STRUCTURES 3 Credit Hours**

Aircraft structural design investigations dealing with theory and applications in aviation.

**Prerequisite:** PHY 13001.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**AERN 35250 UNMANNED AIRCRAFT SYSTEMS LAW AND REGULATIONS 2 Credit Hours**

This course introduces students to the changing and dynamic area of UAS laws and regulations. Students will study the Constitutional, statutory and regulatory sources of law. Students will study the Congressional and regulatory development of UAS laws. Students will learn how the regulatory process, advanced proposals of rulemaking and notice of proposed rule making operates. Students will also study pertinent case law regarding Constitutional, criminal, privacy issues, tort and products liability issues. Finally, students will learn and understand how to legally operate a UAS in the National Airspace System in an always changing legal and technology environment.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**AERN 35339 FIXED BASE OPERATOR OPERATIONS 3 Credit Hours**

A study of general aviation operations and the role of Fixed Base Operators in the National Aviation System; management functions; marketing; profit; cash flow; financing; human resources; organization; administration; management information systems; operations; maintenance; safety; liability; physical facilities; and the future of general aviation.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**AERN 35340 AIRPORT MANAGEMENT 3 Credit Hours**

Introduction to the many functions that are involved in the operation and management of an airport. Includes an analysis of the development of the airport- airway system, airport legislation, airport planning and airport operations.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**AERN 35341 AIR TRANSPORTATION SYSTEMS 3 Credit Hours**

Descriptive course in airline operations as seen from the air carrier's business perspective. Emphasis is on business practices and techniques unique to aviation.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**AERN 35342 TERMINAL OPERATIONS I 2 Credit Hours**

Intermediate level terminal operations course. Emphasis on tower operations at the clearance delivery, ground control, and local control positions. Topics covered will include, but not be limited to phraseology, procedures, LOAs and weather.

**Prerequisite:** AERN 25350 and AERN 25351; and AERN 15740 or AERN 15745; and Aeronautics major.

**Corequisite:** AERN 35345.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**AERN 35343 EN ROUTE I 3 Credit Hours**

Introduction to en route operations of air traffic control. Focus on the non-RADAR foundations of en route operations. Topics covered include, but are not limited to phraseology, maps, LOAs, rules and procedures in a non-RADAR environment.

**Prerequisite:** AERN 25250, AERN 25251, AERN 35342 and AERN 35345; and Aeronautics major.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**AERN 35345 TERMINAL OPERATIONS I LABORATORY 1 Credit Hour**

Application of terminal air traffic control operating principles explored in AERN 35342 Terminal Operations I.

**Prerequisite:** AERN 25350 and AERN 25351; and AERN 15740 or AERN 15745; and Aeronautics major.

**Corequisite:** AERN 35342.

**Schedule Type:** Laboratory

**Contact Hours:** 2 lab

**Grade Mode:** Standard Letter

**AERN 35644 INSTRUMENT FLIGHT THEORY 3 Credit Hours**

Course instruction on Instrument Flight to include, navigation facilities (both ground and aircraft), weather theory and weather specific to instrument meteorological conditions, weather charts and sources, cross-country flight planning for IFR, FAA regulations specific to IFR flight, Charts for Instrument Flight, Aircraft Performance, Decision Making, Aircraft Systems and Instruments related to IFR Flight, and Instrument Flight techniques and procedures. This course meets the requirements for endorsement to take the FAA Airman Knowledge Exam for an Instrument Rating and satisfies the requirements of the Training Course Outline approved by the FAA.

**Prerequisite:** AERN 15740 and AERN 25250; and Aeronautics major.

**Corequisite:** AERN 35645.

**Schedule Type:** Flight Training

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**AERN 35645 INSTRUMENT PILOT FLIGHT 2 Credit Hours**

Comprehensive flight course for the professional pilot candidate to meet the requirements of the FAA instrument rating. This course may be repeated only once. Student is required to spend a minimum of two hours daily, five days a week, at the airport until all course requirements have been attained. When not flying, the student goes through personalized ground instruction. Special course fees apply. Please visit [www.kent.edu](http://www.kent.edu) for a list of fees.

**Prerequisite:** Minimum C grade in AERN 25743; and minimum 2.500 overall GPA; and must be in the Flight Technology (FLGT) concentration in the Aeronautics major.

**Corequisite:** AERN 35644.

**Schedule Type:** Flight Training

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter-IP

**AERN 35647 COMMERCIAL PILOT FLIGHT II 2 Credit Hours**

Comprehensive flight course for the professional pilot candidate once. Student is required to spend a minimum of two hours each day, four days a week, at the airport until course requirements have been attained. Special course fees may apply. When not flying, the student goes through personalized ground instruction. Special course fees apply. Please visit [www.kent.edu](http://www.kent.edu) for a list of fees.

**Prerequisite:** Minimum C grade in AERN 35644; and AERN 35645; and minimum 2.500 overall GPA; and must be in the Flight Technology concentration in the Aeronautics major.

**Corequisite:** AERN 35746.

**Schedule Type:** Flight Training

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter-IP

**AERN 35650 NON-PILOT INSTRUMENT FLIGHT THEORY 3 Credit Hours**

Course instruction for instrument flight to include: navigation facilities and equipment (both ground and aircraft), general weather theory and weather related to instrument meteorological conditions, weather charts and sources, FAA regulations pertinent to the conduct of instrument flight, aeronautical charts for instrument flight and techniques and procedures unique to the conduct of instrument flight. This course does not satisfy the Federal Aviation Regulation requirement for endorsement to take the Airman Knowledge Exam for an Instrument Rating nor does it satisfy the Aircraft Dispatch minor.

**Prerequisite:** AERN 15740 or AERN 15745; and AERN 25250.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**AERN 35746 COMMERCIAL PILOT THEORY 2 Credit Hours**

Comprehensive instruction covering all areas necessary to exercise the privileges of a commercial pilot.

**Prerequisite:** AERN 35644.

**Corequisite:** AERN 35647.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**AERN 35747 COMMERCIAL PILOT FLIGHT III 2 Credit Hours**

Comprehensive flight course for the professional pilot candidate to meet the requirements of the FAA commercial pilot certificate. With special permission, this course may be repeated only once. Student is required to spend up to two hours daily, four days a week, at the airport until the course requirements been attained. When not flying, the student goes through personalized ground instruction. Special course fees apply. Please visit [www.kent.edu](http://www.kent.edu) for a list of fees.

**Prerequisite:** Minimum C grade in AERN 35647; and minimum 2.500 overall GPA; and must be in the Flight Technology concentration in the Aeronautics major.

**Schedule Type:** Flight Training

**Contact Hours:** 2 other

**Grade Mode:** Standard Letter-IP

**AERN 35749 COMMERCIAL PILOT HELICOPTER FLIGHT 3 Credit Hours**

Flight course designed to fulfill FAA requirements for the Commercial Pilot Helicopter certificate. This course may only be repeatable twice. Student is required to spend 1.5 hours each day, five days a week, at the airport, until the FAA minimum requirements are attained. When not flying, the student goes through personalized ground instruction with an assigned flight instructor. Minimum FAA flight time requirements towards the Commercial Pilot Helicopter Flight Certificate is 150 hours. Actual flight training may exceed 150 hours.

**Prerequisite:** AERN 15742 or AERN 15743; and minimum 2.500 overall GPA; and must be in the Flight Technology concentration in the Aeronautics major.

**Corequisite:** AERN 35746.

**Schedule Type:** Flight Training

**Contact Hours:** 5.5 other

**Grade Mode:** Standard Letter-IP

**AERN 35810 UNMANNED AIRCRAFT SYSTEMS 3 Credit Hours**

Provides an understanding of the theory of operation, architecture, and performance characteristics of various airborne-onboard systems and subsystems utilized in unmanned aerial vehicles. Also includes examination of aircraft materials, structural components, and configuration.

**Prerequisite:** AERN 25800.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**AERN 35830 UNMANNED AIRCRAFT SYSTEMS SENSING AND SENSOR SYSTEMS 3 Credit Hours**

An in-depth study of sensors and remote sensing systems used to support Unmanned Aircraft operations. Course emphasizes the theory, technical characteristics, capabilities, and operational use of various sensors and sensing systems. Course also investigates sensor data generation and sensing system image interpretation and analysis.

**Prerequisite:** AERN 25800.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**AERN 35840 UNMANNED AIRCRAFT SYSTEMS COMMAND, CONTROL AND COMMUNICATIONS 3 Credit Hours**

Explores the technological and operational aspects of ground-based and airborne command, control, and communications systems used in unmanned aircraft systems. Topics include UAV sense-and-avoid systems, data link systems, voice communications systems, telemetry systems, navigation systems, and manual and automatic flight control systems.

**Prerequisite:** AERN 35644 or AERN 35650; and AERN 35810.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**AERN 35892 SMALL UNMANNED AIRCRAFT SYSTEMS FLIGHT PRACTICUM (ELR) 2 Credit Hours**

Small Unmanned Aircraft Systems Operations Flight Practicum. Student is required to spend a minimum of 15 hours during the semester flying a small unmanned aircraft system. When not flying, the student goes through personalized ground instruction. Special emphasis will be placed on the regulatory requirements of sUAS operations, applied weather theory, mission planning and emergency procedures. Students must obtain FAA Part 107 Unmanned Aircraft System Certification prior to starting this course.

**Prerequisite:** AERN 25800.

**Schedule Type:** Flight Training, Practical Experience

**Contact Hours:** 1 lecture, 3 other

**Grade Mode:** Standard Letter-IP

**Attributes:** Experiential Learning Requirement

**AERN 45001 INITIAL DISPATCH I 2 Credit Hours**

Part I of III preliminary courses required for students not currently enrolled at Kent State University. Provided in order to meet Federal Aviation Regulation requirements under Part 65 for training to become an Aircraft Dispatcher. This course may be necessary as preliminary training to enroll in AERN 45010 and 45020 Aircraft Dispatch I and II respectively. Successful completion of Dispatch I and II results in authorization to take the FAA written and practical exams for the Aircraft Dispatcher certificate. Need for the course depends on previous coursework or FAA certificates completed.

**Prerequisite:** Special approval.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**AERN 45002 INITIAL DISPATCH II 2 Credit Hours**

Part II of III preliminary courses required for students not currently enrolled at Kent State University to enroll in Aircraft Dispatch I or Aircraft Dispatch II. This course is a continuation of training required by Part 65 of the Federal Aviation Regulations to earn an Aircraft Dispatcher Certificate. It may be required in order to meet the registration requirements for AERN 45010 and 45020, Aircraft Dispatch I and II of which successful completion results in authorization to take the FAA written and practical exams for the Aircraft Dispatcher Certificate. Need for the course depends on previous coursework or FAA certificates completed.

**Prerequisite:** Special approval.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**AERN 45003 INITIAL DISPATCH III 2 Credit Hours**

Part III of III preliminary courses required for students not currently enrolled at Kent State University to enroll in Aircraft Dispatch I or Aircraft Dispatch II. This course is the final course to complete preliminary training required by Part 65 of the Federal Aviation Regulations to earn an Aircraft Dispatcher Certificate. It may be required in order to meet the registration requirements for AERN 45010 and 45020, Aircraft Dispatch I and II respectively, of which successful completion results in authorization to take the FAA written and practical exams for the Aircraft Dispatcher Certificate. Need for the course depends on previous coursework or FAA certificates completed.

**Prerequisite:** Special approval.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**AERN 45010 AIRCRAFT DISPATCH I 3 Credit Hours**

This is the first of two courses required to qualify for the FAA Aircraft Dispatcher Airman Knowledge Test and the associated FAA Practical Exam for issuance of an Aircraft Dispatcher License. Topics include weather theory and weather services, regulations, aircraft systems, dispatch operations, decision making, human error, situational awareness, communications and aeronautical charts. Students must be 21 yrs of age or turn 21 during the semester taken. Special course fees apply. Prerequisite: AERN 35644 or AERN 35650; and special approval

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**AERN 45020 AIRCRAFT DISPATCH II 3 Credit Hours**

Second of two courses designated for the practical application of previously acquired knowledge necessary to perform aircraft dispatcher functions. Topics as applied to dispatch functions include briefing techniques, weather analysis and flight planning, aircraft systems, resource management, decision making, and cargo carrying. Completion required to earn a Graduation Certificate required by FAR Part 65 to qualify for a practical exam. An instructor endorsement to take the FAA aircraft dispatcher practical test is also required and is issued separately and solely at the discretion of the course instructor. Special course fees may apply. Please visit [www.kent.edu/caest/flight-technology](http://www.kent.edu/caest/flight-technology) and click on the Flight Course Fees link for more information. The student must be aged 21 or turn 21 during the semester taken.

**Prerequisite:** AERN 45010.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**AERN 45025 DISPATCH LABORATORY 1 Credit Hour**

Practical Aircraft Dispatch application and preparation for the ADX written, oral and practical exam.

**Prerequisite:** AERN 45010.

**Corequisite:** AERN 45020.

**Schedule Type:** Laboratory

**Contact Hours:** 2 lab

**Grade Mode:** Standard Letter

**AERN 45030 AIRCRAFT SYSTEMS II 3 Credit Hours**

Continuation of AERN 35040. An in-depth study of various aircraft systems including auxiliary systems, undercarriage, hydraulics, flight controls, instruments, and integrated systems as applied to aircraft.

**Prerequisite:** AERN 35040.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter



**AERN 45040 LABOR RELATIONS IN THE AVIATION INDUSTRY 3 Credit Hours**

Legislation governing labor relations in the private sector of the United States Economy consist of two separate and distinct pieces of legislation: the Railway Labor Act and the National Labor Relations Act. This course focuses on the examination of air transport labor relations in the context of these key laws. As the student of aviation management comes in contact with both Acts though this course, the student will learn similarities and differences of each and their resultant impact. The student will actively apply this knowledge in a mock labor relations negotiation.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**AERN 45099 AERONAUTICAL STUDIES CAPSTONE (ELR) 3 Credit Hours**

(Repeatable for credit) An in-depth study of the student's area of focus within aeronautical studies, culminating to a senior level project. At the discretion of the aeronautics faculty, students may substitute another capstone course for this course. Students must pass this capstone with a grade of C (2.000) or better in order to graduate.

**Prerequisite:** Senior standing.

**Schedule Type:** Senior Project/Honors Thesis

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter-IP

**Attributes:** Experiential Learning Requirement

**AERN 45100 AIRPORT OPERATIONS 3 Credit Hours**

This course focuses on the daily functions of Airport Operations. Students receive hands-on training in performing daily inspections at the Kent State Airport to evaluate and keep track of airfield discrepancies. Students will use a database to address the Airport Certification Manual and FAR Part 139 criteria.

**Prerequisite:** AERN 35340.

**Schedule Type:** Lecture, Research

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**AERN 45130 PHYSIOLOGY AND HUMAN FACTORS OF FLIGHT 3 Credit Hours**

A study of the interaction of the human body with flight and those human factors that affect flight operations.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**AERN 45135 AVIATION SAFETY THEORY 3 Credit Hours**

(Slashed with AERN 55135) An in-depth study of aviation human safety theories and the basics of risk and safety management.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**AERN 45150 APPLIED FLIGHT DYNAMICS I 3 Credit Hours**

(Slashed with AERN 55150) An applied aircraft flight dynamics course that demonstrates aircraft, engine and propeller performance with the overall flight performance and stability of the typical subsonic airplane. Emphasis is placed on the aerodynamics of flight.

**Prerequisite:** PHY 13001 or PHY 23101.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**AERN 45200 STRATEGIC AVIATION MANAGEMENT (ELR) 3 Credit Hours**

Serves as the capstone course for the aviation management area of concentration in aeronautics. As such, it is designed to address evolving issues and challenges in aviation management with a particular emphasis on airlines and airports through an application of previously mastered aviation management courses. Students must pass the course with a minimum grade of 'C' (2.000).

**Prerequisite:** AERN 45100; and senior standing.

**Schedule Type:** Lecture, Research

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter-IP

**Attributes:** Experiential Learning Requirement

**AERN 45250 AVIATION LAW 3 Credit Hours**

Involves a study of the origins of Western jurisprudence, common law and aviation law as an integral part of law in the U.S. Also introduces international aviation law by lateral agreement as well as U.S. Constitutional law and its amendments as they relate to the structure and process of aviation law. Criminal and civil law as they relate to civil aviation are also addressed. Case studies are included.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**AERN 45255 LEGAL ANALYSIS OF AVIATION AND ENGINEERING DISASTERS 2 Credit Hours**

This course examines legal issues of mass torts in the specific arena of aviation and engineering products liability, negligence and personal injury law. Special focus will be on class action law suits that give rise to mass tort litigation. Emphasis will be on strict product liability, design defect, manufacturing defect, negligence, defenses to negligence and the claims that have given rise to mass tort litigation in U.S. and International Jurisprudence. The Federal Torts Claims Act (FTCA) will be examined in the context of aviation and aerospace engineering.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**AERN 45320 TERMINAL OPERATIONS II 2 Credit Hours**

Advanced terminal course that focuses on the TRACON environment. Emphasis in vectoring and sequencing for approach at the primary airport. Topics covered will include, but not be limited to phraseology, maps, LOAs, and airspace.

**Prerequisite:** AERN 35342 and AERN 35345; and Aeronautics major.

**Corequisite:** AERN 45321.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter



**AERN 45321 TERMINAL OPERATIONS II LABORATORY 1 Credit Hour**  
Application of terminal air traffic control operating principles explored in AERN 45320 Terminal Operations II.

**Prerequisite:** AERN 35342 and AERN 35345; and Aeronautics major.

**Corequisite:** AERN 45320.

**Schedule Type:** Laboratory

**Contact Hours:** 2 lab

**Grade Mode:** Standard Letter

**AERN 45340 AIRCRAFT MAINTENANCE 3 Credit Hours**

Fundamentals of aircraft maintenance and resolving maintenance problems on the flight line.

**Prerequisite:** Aeronautics major; and Senior standing; and special approval.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**AERN 45343 EN ROUTE II 2 Credit Hours**

Advanced en route course that focuses on low altitude, en route operations. Some time is spent on high altitude and special operations as well. Topics covered include, but not limited to phraseology, procedures, LOAs and maps.

**Prerequisite:** AERN 45320 and AERN 45321; and Aeronautics major.

**Corequisite:** AERN 45344.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**AERN 45344 EN ROUTE II LABORATORY 1 Credit Hour**

Application of en route air traffic control operating principles explored in AERN 45343 En Route II.

**Prerequisite:** Aeronautics major.

**Corequisite:** AERN 45343.

**Schedule Type:** Laboratory

**Contact Hours:** 2 lab

**Grade Mode:** Standard Letter

**AERN 45349 SYSTEMS MAINTENANCE AND RELIABILITY 5 Credit Hours**

Combines theories of systems and operations with practical experience to meet FAA standards for an airframe and powerplant license (300 hours shop experience).

**Prerequisite:** AERN 45340.

**Schedule Type:** Lecture

**Contact Hours:** 5 lecture

**Grade Mode:** Standard Letter

**AERN 45360 PROFESSIONAL DEVELOPMENT IN AERONAUTICS III 1 Credit Hour**

Seminar on selected topics relating to problems, issues and conditions of employment within aviation.

**Prerequisite:** AERN 30000; and senior standing.

**Schedule Type:** Lecture

**Contact Hours:** 1 lecture

**Grade Mode:** Standard Letter

**AERN 45399 AIR TRAFFIC CONTROL CAPSTONE (ELR) 1 Credit Hour**

The culminating experience for the Air Traffic Control program of study. Students will work in groups to research and present a possible solution to a current event in the world of aviation and air traffic control.

**Prerequisite:** AERN 45343 and AERN 45344; and aeronautics major.

**Schedule Type:** Project or Capstone

**Contact Hours:** 1 lecture

**Grade Mode:** Standard Letter

**Attributes:** Experiential Learning Requirement

**AERN 45400 AVIATION MAINTENANCE LAW AND REGULATIONS 2 Credit Hours**

This course introduces students to the history, development of case law, statutory law and regulatory law of aviation maintenance. Special emphasis will be placed on the Federal Aviation Regulations and how they influence the Airframe and Power Plant Mechanic. Students will learn how the regulatory process works, the certification of mechanics works, and how to effectively read and interpret FAA regulations.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**AERN 45499 AIR TRAFFIC CONTROL CAPSTONE LABORATORY (ELR) 2 Credit Hours**

The culminating experience for the Air Traffic Control program of study. Students participate in realistic simulations where students take the roles within all three areas of ATC (Tower, TRACON, and ARTCC). These scenarios often involve multiple domains simultaneously where students must work together to successfully finish, simulating a normal day for many controllers. Pre/corequisites: AERN 45399

**Prerequisite:** AERN 45343 and AERN 45344; and aeronautics major.

**Schedule Type:** Laboratory, Project or Capstone

**Contact Hours:** 4 lab

**Grade Mode:** Standard Letter

**Attributes:** Experiential Learning Requirement

**AERN 45648 THEORY OF FLIGHT INSTRUCTION (ELR) 3 Credit Hours**

Detailed fundamentals of teaching flight and ground instruction and the analysis of flight techniques, in order to meet requirements of FAR's part 61.185(a).

**Prerequisite:** AERN 35040, AERN 35746, AERN 35747 and AERN 45150.

**Corequisite:** AERN 45649.

**Schedule Type:** Flight Training

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Experiential Learning Requirement

**AERN 45649 FLIGHT INSTRUCTOR/AIRPLANES 2 Credit Hours**

Flight course with emphasis on instructing techniques in aircraft from right seat. Includes student evaluation techniques to meet Federal Aviation Regulation for certified flight instructor. With special approval, this course may be repeated only once. Student is required to spend a minimum of two hours daily, five days a week, at the airport until course requirements have been attained. When not flying, the student goes through personalized ground instruction. Special course fees apply. Please visit [www.kent.edu](http://www.kent.edu) for a list of fees.

**Prerequisite:** AERN 35747; and minimum C grade in AERN 35746; and must be in the Flight Technology concentration in the Aeronautics major.

**Corequisite:** AERN 45648.

**Schedule Type:** Flight Training

**Contact Hours:** 9 other

**Grade Mode:** Standard Letter-IP

**AERN 45651 FLIGHT INSTRUCTOR-INSTRUMENTS 2 Credit Hours**

Flight course with emphasis on flight instructing techniques involved with instrument flight and air traffic control procedures. With special approval this course may be repeated only once. Student is required to spend a minimum of two hours daily, three days a week, at the airport until course requirements have been met. When not flying, the student goes through personalized ground instruction. Special course fees apply. Please visit [www.kent.edu](http://www.kent.edu) for more information.

**Prerequisite:** AERN 45649; and AERN 45648 with a minimum C grade; and minimum 2.500 overall GPA; and must be in the Flight Technology concentration in the Aeronautics major.

**Schedule Type:** Flight Training

**Contact Hours:** 2 lecture, 9 other

**Grade Mode:** Standard Letter-IP

**AERN 45653 MULTI-ENGINE PILOT FLIGHT 1 Credit Hour**

Course provides the required ground and flight instruction necessary to qualify students for the multi-engine rating from the FAA. With special approval this course may be repeated only once. Student is required to spend a minimum of two hours daily, three days a week, at the airport until course requirements have been attained. When not flying, the student goes through personalized ground instruction. Special course fees apply. Please visit [www.kent.edu](http://www.kent.edu) for more information.

**Prerequisite:** AERN 35747; and minimum 2.500 overall GPA; and must be in the Flight Technology concentration in the Aeronautics major.

**Schedule Type:** Flight Training

**Contact Hours:** 1 lecture, 9 other

**Grade Mode:** Standard Letter-IP

**AERN 45655 ADVANCED MULTI-ENGINE PILOT FLIGHT 1 Credit Hour**

Ground flight instruction for proficiency and required hours in preparation for multi-engine instruction. Special course fees may apply. Please visit [www.kent.edu/caest/flight-technology](http://www.kent.edu/caest/flight-technology) and click on the Flight Course Fees link for more information.

**Prerequisite:** AERN 45653; and minimum 2.500 overall GPA; and must be in the Flight Technology concentration in the Aeronautics major.

**Schedule Type:** Flight Training

**Contact Hours:** 9 other

**Grade Mode:** Standard Letter-IP

**AERN 45657 MULTI-ENGINE FLIGHT INSTRUCTOR 1 Credit Hour**

Course provides the necessary ground and flight instruction to professionally qualify students for the multi-engine instructor rating by the FAA. This course may be repeated only twice. Student is required to spend two hours daily, three days a week, at the airport. When not flying, the student goes through personalized ground instruction with the flight instructor. Special course fees may apply. Please visit [www.kent.edu/caest/flight-technology](http://www.kent.edu/caest/flight-technology) and click on the Flight Course Fees link for more information.

**Prerequisite:** AERN 45649 and AERN 45655; and minimum 2.500 overall GPA; and must be in the Flight Technology concentration in the Aeronautics major.

**Schedule Type:** Flight Training

**Contact Hours:** 9 other

**Grade Mode:** Standard Letter-IP

**AERN 45659 UPSET RECOVERY TRAINING 1 Credit Hour**

Consisting of both ground school and hands-on flight components, this upset training course prepares pilots for emergency situations they may encounter that cannot properly be replicated in a typical GA aircraft. Extensive piston driven and swept wing jet aerodynamic characteristics, accident analysis and recovery profile. Special course fees may apply. Please visit [www.kent.edu/caest/flight-technology](http://www.kent.edu/caest/flight-technology) and click on the Flight Course Fees link for more information.

**Prerequisite:** AERN 15741; and minimum 2.500 overall GPA; and must be in the Flight Technology concentration in the Aeronautics major.

**Schedule Type:** Flight Training

**Contact Hours:** 9 other

**Grade Mode:** Standard Letter

**AERN 45710 TURBINE ENGINE THEORY AND OPERATION 2 Credit Hours**

An in-depth study of the theory, operation and performance of turbine turboprop engines and associated systems.

**Prerequisite:** AERN 35020.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**AERN 45711 TURBINE ENGINE THEORY AND OPERATION LABORATORY 1 Credit Hour**

Laboratory using a turboprop flight simulator to provide instruction and demonstration of the operating characteristics and procedures associated with turbine/turboprop engines. Special course fees may apply. Please visit [www.kent.edu/caest/flight-technology](http://www.kent.edu/caest/flight-technology) and click on the Flight Course Fees link for more information.

**Prerequisite:** AERN 35020; and Aeronautics major.

**Pre/corequisite:** AERN 45710.

**Schedule Type:** Private Lesson

**Contact Hours:** 1 other

**Grade Mode:** Standard Letter

**AERN 45720 CREW RESOURCE MANAGEMENT 2 Credit Hours**

An in-depth study of the common principles of aviation crew resource management (CRM) and human factors as utilized by air transport flight crews.

**Prerequisite:** AERN 45130.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter-IP

**AERN 45721 CREW RESOURCE MANAGEMENT LABORATORY 1 Credit Hour**

Flight simulator-based laboratory that includes flight simulator experiences that integrate crew resource management (CRM) and line-oriented flight training (LOFT) in a multicrew environment. Special course fees may apply. Please visit [www.kent.edu/caest/flight-technology](http://www.kent.edu/caest/flight-technology) and click on the Flight Course Fees link for more information.

**Prerequisite:** AERN 45130.

**Pre/corequisite:** AERN 45720.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 1 other

**Grade Mode:** Standard Letter-IP

**AERN 45730 APPLIED TRANSPORT CATEGORY AIRCRAFT SYSTEMS**  
**3 Credit Hours**

Course examines various systems in use on air transport aircraft. The course emphasis is on the principles, operation and limitations of complex, integrated systems found in modern aircraft.

**Prerequisite:** AERN 35020.

**Corequisite:** AERN 45030.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**AERN 45740 FLIGHT MANAGEMENT SYSTEMS** 3 Credit Hours

Course examines various advanced avionics systems used on air transport type aircraft. The course emphasis is on the principles, operation and limitations of integrated avionics related to the 'glass cockpit' found on modern aircraft.

**Prerequisite:** AERN 45030 and AERN 45350.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**AERN 45750 AEROSPACE MEDICINE** 2 Credit Hours

This course examines the medical and legal issues of regulating the presence of humankind in aviation. Special emphasis will be given to the medical conditions that human life encounters when exposed to machines and different environments including atmospheric and non-atmospheric flight. Students will study the history, physiology and environment, clinical issues, operational issues, legal issues and future issues of aerospace medicine.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**AERN 45791 AVIATION SECURITY AND POLICY SEMINAR (WIC)** 3 Credit Hours

(Slashed with AERN 55791) Examines policies, practices, procedures and regulatory provisions developed to create and enhance security in civil aviation with a special emphasis on airlines, airports, airspace and agencies responsible for civil aviation security.

**Prerequisite:** AERN 45250.

**Schedule Type:** Seminar

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**Attributes:** Writing Intensive Course

**AERN 45800 UNMANNED AIRCRAFT SYSTEMS FLIGHT OPERATIONS THEORY** 4 Credit Hours

Classroom instruction to provide the general information and knowledge necessary to prepare students to pilot and operate unmanned aircraft. Emphasis is placed on the acquisition of knowledge required to engage in UAS flight operations, specifically focused on piloting UAVs and managing UAV sensors. This course provides students with the background knowledge required to begin flight training and to perform real-time mission management operations for high performance unmanned aircraft systems.

**Prerequisite:** AERN 25350; and AERN 25351; and AERN 35644 or AERN 35650; and AERN 35830; and AERN 35840; and AERN 45150.

**Schedule Type:** Lecture

**Contact Hours:** 4 lecture

**Grade Mode:** Standard Letter

**AERN 45892 UNMANNED AIRCRAFT SYSTEMS FLIGHT PRACTICUM**  
**2 Credit Hours**

Unmanned Aircraft Systems Operations Flight Practicum. Student is required to spend a minimum of 15 hours during the semester flying an unmanned aircraft system. When not operating an unmanned system, the student goes through personalized ground instruction. Special emphasis will be placed on flying commercial UAS, fixed wing platforms and other commercial platforms. Students will deepen their knowledge of regulatory requirements of UAS operations, applied weather theory, mission planning and emergency procedures. Students must obtain FAA Part 107 Unmanned Aircraft System Certification prior to starting this course. Flight Fees apply.

**Prerequisite:** AERN 25800 and AERN 35815.

**Schedule Type:** Flight Training, Practical Experience

**Contact Hours:** 1 lecture, 3 other

**Grade Mode:** Standard Letter-IP

**AERN 45900 AEROELASTICITY** 3 Credit Hours

Review of beam analysis. Structural dynamics of one-dimensional systems. Analysis of static aeroelastic phenomena, unsteady aerodynamics and flutter. Equations of motion for complete aeroelastic systems; solution techniques.

**Prerequisite:** AERN 35150 and ENGR 33111.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**AERN 55135 AVIATION SAFETY THEORY** 3 Credit Hours

(Slashed with AERN 45135) An in-depth study of aviation human safety theories and the basics of risk and safety management.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**AERN 55150 APPLIED FLIGHT DYNAMICS I** 3 Credit Hours

(Slashed with AERN 45150) An applied aircraft flight dynamics course that demonstrates aircraft, engine and propeller performance with the overall flight performance and stability of the typical subsonic airplane. Emphasis is placed on the aerodynamics of flight.

**Prerequisite:** AERN 15000; and MATH 11012 or MATH 12002; and PHY 13001 and PHY 13002 (or PHY 23101 and PHY 23102); and graduate standing.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**AERN 55350 AVIONICS** 3 Credit Hours

(Slashed with AERN 45350) A study of aviation electronic systems in flight vehicles that pertain to communication, navigation and air traffic control systems.

**Prerequisite:** PHY 13001 and PHY 13012; and graduate standing.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**AERN 55700 AIRCRAFT DESIGN 3 Credit Hours**

(Slashed with AERN 45700) First of a two-course series of aerospace design. Preliminary design or case study of an aerospace vehicle, including but not limited, to aircraft, rotorcraft and spacecraft. Primary focus on introduction to design, decision-making in design and preliminary sizing of an aerospace vehicle to meet customer requirements. Final technical report and presentation.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**AERN 55791 AVIATION SECURITY AND POLICY SEMINAR 3 Credit Hours**

(Repeatable for credit) (Slashed with AERN 45791) Examines policies, practices, procedures and regulatory provisions developed to create and enhance security in civil aviation with a special emphasis on airlines, airports, airspace and agencies responsible for civil aviation security.

**Prerequisite:** Graduate standing.

**Schedule Type:** Seminar

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**AERN 61091 AEROSPACE SEMINAR 1 Credit Hour**

(Repeatable for a maximum of three semesters) Discussions of selected technical topics related to aerospace technology.

**Prerequisite:** Graduate standing.

**Schedule Type:** Seminar

**Contact Hours:** 1 other

**Grade Mode:** Standard Letter

**AERN 65091 SEMINAR IN EMERGING ISSUES IN AVIATION LOGISTICS 2 Credit Hours**

Guided by issues set forth by the International Air Cargo Association the Cargo Airlines Association, this variable content seminar will provide an interactive, dynamic and in-depth discussion on topics of immediate concern for the air freight industry.

**Prerequisite:** AERN 65100; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**AERN 65092 PRACTICUM IN AERONAUTICS 1 Credit Hour**

(Repeatable for credit) Up to 6 total credit hours of practicum to gain experience in the aerospace or aviation industry managing various aspects of logistics. Logistic projects related to systems analysis, product or vehicle movement, legal and ethical issues, economic issues, international needs, safety, human resources and managerial assessment, or other aspects of managing logistics as approved are the focus of the course.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Practical Experience

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter-IP

**AERN 65095 SPECIAL TOPICS IN AERONAUTICS 1-4 Credit Hours**

(Repeatable for a maximum of 15 credit hours) Study of special topics that focus on subjects and issues in aeronautics.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 1-4 lecture

**Grade Mode:** Standard Letter

**AERN 65100 LOGISTICAL STRATEGIES IN AVIATION MANAGEMENT 2 Credit Hours**

This course presents the business of aviation logistics and its role in the global supply chain by examining different product sectors using air freight. By means of both domestic and international example, it then details some of the challenges facing the air cargo industry today and presents possible management options for their resolution.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**AERN 65150 LEGAL AND REGULATORY ISSUES FOR AIR CARGO MANAGEMENT 2 Credit Hours**

With a focus on both the domestic and global marketplace, this course provides in-depth coverage of the regulatory bodies and the protocols and procedures that govern the air cargo industry.

**Prerequisite:** AERN 65100; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**AERN 65199 THESIS I 2-6 Credit Hours**

Thesis students must register for a minimum of 6 hours, 2 to 6 hours in a single semester distributed over several semesters if desired.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Masters Thesis

**Contact Hours:** 2-6 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**AERN 65200 AVIATION ECONOMICS AND FISCAL MANAGEMENT 2 Credit Hours**

Using examples from across key industries that make up the aviation sector, this course examines profit strategies employed by cargo-carrying airlines, all-cargo carriers, airports, ground transportation providers, and others with an aim of highlighting their role in and their impact on the business of air freight.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**AERN 65201 AVIATION INDUSTRY CONTRACT MANAGEMENT 2 Credit Hours**

The course provides students with practical experience in the realm of aviation contracts.

**Prerequisite:** MIS 64041; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**AERN 65230 MODELING AND FORECASTING FOR AVIATION LOGISTICS PLANNING 2 Credit Hours**

This course presents topics and techniques necessary to understand and develop an aviation logistics model such that an accurate and effective aviation demand forecast can be made.

**Prerequisite:** AERN 65100 and AERN 65200; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**AERN 65235 HUMAN ERROR ANALYSIS IN AVIATION 2 Credit Hours**

Provides an in-depth look at human error and its implications in the realm of safety using examples from the aviation industry. Includes a basic overview of human error, discussion on the models available to examine error, provides knowledge on how to classify and provide recommendations of intervention strategies. A focus will be on the SHELL Model, the Human Factors Analysis and Classification System, and the 5M model. This course will use real examples of accidents and incidents for students to apply these strategies.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**AERN 65240 AVIATION SAFETY MANAGEMENT SYSTEMS 2 Credit Hours**

An in-depth study of the concepts and principles of aviation safety management and aviation Safety Management Systems (SMS). Provides a fundamental knowledge of SMS safety policy, safety risk management, safety assurance, and safety promotion. Also includes a thorough analysis of the design, implementation, and management of Safety Management Systems and its incorporation into various aviation sectors.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**AERN 65250 APPLIED HUMAN FACTORS ENGINEERING 3 Credit Hours**

Survey of human factors engineering and ergonomics, emphasizing the human-centered approach to systems, product, workplace, and machine design. Discussions will include human factors research and design methodologies, human factors fundamentals (e.g., sensation and perception, information processing, anthropometry) and applications of human factors for the design of workplace and environment.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**AERN 65270 HUMAN FACTORS IN SYSTEMS DESIGN 3 Credit Hours**

Human factors input into operator-system design, development, testing, and evaluation. Emphasis on the systems approach to human-machine-interface, with discussion and application of specific methodologies and analytical techniques. Highly focus on design of display and control systems.

**Prerequisite:** Graduate standing.

**Pre/corequisite:** AERN 65250.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**AERN 65280 HUMAN INFORMATION PROCESSING 3 Credit Hours**

An examination of human information reception, information processing, and skilled performance capabilities and limitations in human-machine systems with an emphasis on models and techniques including psychophysics, signal detection theory, information theory, and decision-making theory.

**Prerequisite:** AERN 65250; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**AERN 65299 THESIS II 2 Credit Hours**

Thesis students must continue registration each semester until all degree requirements are met.

**Prerequisite:** AERN 65199; and graduate standing.

**Schedule Type:** Masters Thesis

**Contact Hours:** 2 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**AERN 65300 AIRLINE TRANSPORTATION OPERATIONS 2 Credit Hours**

This course provides a managerial approach that highlights the importance of airline transportation. Students examine the framework for airline transportation from a micro and macro perspective. The focus is on operations management that is specialized or unique to the airline industry including regulation and public policy, as they overview operations, service and cost structure.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**AERN 65301 AIR CARGO SECURITY 2 Credit Hours**

This course examines Post 9-11 legislation put in place with respect to air cargo security and details unique challenges facing the industry today with an eye toward management of those challenges for future growth.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**AERN 65400 WEATHER FOR AVIATION LOGISTICS PLANNING 2 Credit Hours**

Introduction to weather concepts as related to aviation operations management. This course focuses on the effect of various phenomena on airport, airline, and small aircraft feeder operations. The emphasis is on understanding conditions that produce various phenomena, use of available weather products to determine conditions and hazardous conditions and their likely impact on aviation operations. An understanding of regulations relative to weather operations and aircraft capabilities will be gained. Regional weather is discussed.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**AERN 65496 INDIVIDUAL INVESTIGATION IN AERONAUTICS 1-4 Credit Hours**

(Repeatable for a maximum of 9 credit hours) Individual investigation of various aeronautics-related topics.

**Prerequisite:** Graduate standing and special approval.

**Schedule Type:** Individual Investigation

**Contact Hours:** 1-4 other

**Grade Mode:** Standard Letter-IP



**AERN 65499 CAPSTONE IN AERONAUTICS 2 Credit Hours**

The Capstone is a culminating experience that will require completion of a comprehensive project at a workplace through employment or internship, or, a comprehensive research paper from an investigation. The goal is to demonstrate competence in aviation management and logistics. Possibilities include empirical research, case studies, theoretical or applied projects or projects for identified clients. The student will be evaluated on the use of knowledge and skills gained from other courses taken in the degree program.

**Prerequisite:** ENGR 60001, ENGR 60003, ENGR 60078, AERN 65091, AERN 65100, AERN 65200, AERN 65150, MIS 64005, MIS 64041 and MIS 64042.

**Schedule Type:** Project or Capstone

**Contact Hours:** 2 other

**Grade Mode:** Standard Letter

## Engineering (ENGR)

**ENGR 10001 INFORMATION TECHNOLOGY 3 Credit Hours**

Introduction to the operation and use of computer systems in technology-related applications. Laboratory assignments include the use of microcomputers for solving technical problems.

**Prerequisite:** None.

**Schedule Type:** Laboratory, Lecture, Combined Lecture and Lab

**Contact Hours:** 2 lecture, 2 lab

**Grade Mode:** Standard Letter

**ENGR 13585 COMPUTER AIDED ENGINEERING GRAPHICS 3 Credit Hours**

Introduction to 3D computer aided engineering graphics. Students will be able to create 3-D models and assemblies using a feature based parametric solid modeling CAD package. Students will learn concepts of engineering graphics as well as learn to generate, edit, and dimension drawing views.

**Prerequisite:** None.

**Schedule Type:** Laboratory, Lecture, Combined Lecture and Lab

**Contact Hours:** 1 lecture, 4 lab

**Grade Mode:** Standard Letter

**ENGR 15300 INTRODUCTION TO ENGINEERING ANALYSIS USING MATLAB® 2 Credit Hours**

Introduction to basic concepts in engineering analysis using the Matlab® computing language, the industry-standard "first language" for engineers. Introduction to algorithm coding and development, debugging, analysis and interpretation.

**Prerequisite:** None.

**Pre/corequisite:** MATH 12002.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**ENGR 15301 INTRODUCTION TO ENGINEERING ANALYSIS USING MATLAB® LAB 1 Credit Hour**

Laboratory session introducing basic concepts in engineering analysis using the Matlab® computing language, the industry-standard "first language" for engineers. Introduction to algorithm coding and development, debugging, analysis and interpretation.

**Pre/corequisite:** ENGR 15300.

**Schedule Type:** Laboratory

**Contact Hours:** 2 lab

**Grade Mode:** Standard Letter

**ENGR 15500 INTRODUCTION TO AEROSPACE ENGINEERING 3 Credit Hours**

Fundamentals of fluid mechanics, applied aerodynamics, propulsion systems, airplane performance, stability, orbital motion, and launch vehicle performance.

**Pre/corequisite:** MATH 12002.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ENGR 20000 PROFESSIONAL DEVELOPMENT IN ENGINEERING 1 Credit Hour**

Providing several direct opportunities for interviewing and networking with engineering industry professionals, the main goal of this course is to prepare students for internship and career opportunities. Students will also have opportunities to develop necessary financial literacy skills to succeed in post-graduate careers while detailing and implementing short, middle and long-term life goals as part of the life-long learning process.

**Prerequisite:** Sophomore standing.

**Schedule Type:** Lecture

**Contact Hours:** 1 lecture

**Grade Mode:** Standard Letter

**ENGR 20001 ENERGY/POWER 3 Credit Hours**

Study of basic thermodynamic laws and how they apply to the conversion and transfer of heat energy into useful power.

**Prerequisite:** ENGR 21020 and ENGR 21022.

**Schedule Type:** Laboratory, Lecture, Combined Lecture and Lab

**Contact Hours:** 2 lecture, 3 lab

**Grade Mode:** Standard Letter

**ENGR 20002 MATERIALS AND PROCESSES 3 Credit Hours**

Study and practice addressing the nature of basic manufacturing materials and the processes by which they are converted into manufactured products. Includes laboratory experience.

**Prerequisite:** None.

**Schedule Type:** Laboratory, Lecture, Combined Lecture and Lab

**Contact Hours:** 2 lecture, 4 lab

**Grade Mode:** Standard Letter

**ENGR 20004 FUNDAMENTALS OF CIRCUIT ANALYSIS 3 Credit Hours**

Analysis of DC and AC electrical circuits consisting of resistive and reactive components using the basic circuit theorems, descriptions of AC signals in terms of phasors, power and resonance in electrical circuits, transformers and polyphase systems.

**Prerequisite:** PHY 23102.

**Schedule Type:** Laboratory, Lecture, Combined Lecture and Lab

**Contact Hours:** 2 lecture, 2 lab

**Grade Mode:** Standard Letter

**ENGR 20005 INTRODUCTION TO CYBERSECURITY 3 Credit Hours**

This course will introduce the students to the fundamentals of Cybersecurity. Students will be able to develop an understanding of cybercrime, security principles, technologies, and procedures used to defend networks. This course will also explore cyber trends, threats, personal privacy.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ENGR 21020 SURVEY OF ELECTRICITY AND ELECTRONICS 3 Credit Hours**

Survey of DC and AC circuits, semiconductors and electronic devices, including microprocessors and embedded systems.

**Prerequisite:** MATH 11022 and PHY 13002.

**Corequisite:** ENGR 21022.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ENGR 21022 SURVEY OF ELECTRICITY AND ELECTRONICS LABORATORY 1 Credit Hour**

Laboratory experiments related to the course ENGR 21020.

**Prerequisite:** MATH 11022 and PHY 13002.

**Corequisite:** ENGR 21020.

**Schedule Type:** Laboratory

**Contact Hours:** 2 lab

**Grade Mode:** Standard Letter

**ENGR 23010 COMPUTER HARDWARE 3 Credit Hours**

Introduction to the hardware, architecture and operation of the personal computer and associated devices. Topics include personal computer architecture and operation fundamentals; basic hardware; data buses and ports; hardware component packaging; auxiliary hardware components; computer assembly; basic hardware installation and configuration; and basic troubleshooting. This course is aligned with A+ content. CompTIA A+ is the preferred qualifying credential for technical support and IT operational roles.

**Prerequisite:** EMAT 26010 or ENGR 26010.

**Schedule Type:** Laboratory, Lecture, Combined Lecture and Lab

**Contact Hours:** 2 lecture, 2 lab

**Grade Mode:** Standard Letter

**ENGR 23585 ADVANCED COMPUTER AIDED DESIGN 3 Credit Hours**

Advanced applications of 3D, feature based, parametric, solid modeling software including finite element analysis, simulation, parameters, motion and mechanisms, and other advanced tools in the design of parts and assemblies.

**Prerequisite:** ENGR 13585.

**Schedule Type:** Laboratory, Lecture, Combined Lecture and Lab

**Contact Hours:** 1 lecture, 4 lab

**Grade Mode:** Standard Letter

**ENGR 25200 STATICS 3 Credit Hours**

Forces and moments; equilibrium in two and three dimensions; multi-force members; equilibrium, centroids and friction.

**Prerequisite:** MATH 12003 and PHY 23101.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ENGR 25400 DYNAMICS 3 Credit Hours**

Kinematics and kinetics of rigid bodies in planar motion and an introduction to the kinematics and kinetics of rigid bodies in three-dimensional motion.

**Prerequisite:** ENGR 25200; and MATH 22005 or MATH 32051.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ENGR 25500 AERODYNAMICS FOR ENGINEERS I 3 Credit Hours**

Basic fluid dynamics concepts, conservation laws, potential, airfoil and wing analysis. Boundary layers on plates and airfoils. Pressure gradients. Introduction to turbulent and vortex-dominated flows.

**Prerequisite:** ENGR 15500; and MATH 22005 or MATH 32051 .

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ENGR 26010 INTRODUCTION TO COMPUTER ENGINEERING TECHNOLOGY 3 Credit Hours**

Describes Computer Engineering Technology concepts and principles.

Topics include computer hardware, computer hardware operations, digital systems design, networking hardware, technology of networking, computer aided design and embedded systems.

**Pre/corequisite:** MATH 11022.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ENGR 26200 PROGRAMMING FOR ENGINEERS I 3 Credit Hours**

Introduction to engineering problem solving and use of programming language to solve those problems. Students are expected to develop basic mathematical modeling and engineering problem solving skills using mathematical tools and programming languages. Developing modeling and logical thinking are the core objective of this course.

**Prerequisite:** Sophomore standing.

**Schedule Type:** Laboratory, Lecture, Combined Lecture and Lab

**Contact Hours:** 2 lecture, 2 lab

**Grade Mode:** Standard Letter

**ENGR 26301 NETWORKING HARDWARE I 4 Credit Hours**

A hands-on, applied engineering-focused course emphasizing the operation, maintenance, and performance aspects of personal computer networking hardware. Topics include networking hardware operation, characteristics, configuration, and troubleshooting fundamentals. Course also includes network standards, protocols, configuration, topologies, and administrative fundamentals as related to networking hardware systems.

**Prerequisite:** ENGR 21020 (and ENGR 21022) or EMAT 26010 or ENGR 26010.

**Schedule Type:** Laboratory, Lecture, Combined Lecture and Lab

**Contact Hours:** 2 lecture, 4 lab

**Grade Mode:** Standard Letter

**ENGR 27100 FUNDAMENTALS OF OPERATING SYSTEMS FOR ENGINEERING 3 Credit Hours**

The course will prepare students to engineer, install, monitor and manage systems using open-source operating systems. The students will learn operating system fundamentals for engineering applications, including cybersecurity engineering applications. Students will also learn how to configure local storage, create and configure systems, deploy and maintain systems, manage users and groups, and manage security. Different types of open source operating systems that are relevant for engineering systems will be introduced to students, in conjunction with key tools used in cybersecurity engineering.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ENGR 27210 INTRODUCTION TO SUSTAINABILITY 3 Credit Hours**

Introduces the students to the concepts of sustainability and its three pillars, namely, economic growth, environmental protection, and social equality. Students taking the course will understand the language and concepts of sustainability and will acquire the knowledge to further study sustainability.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ENGR 31000 CULTURAL DYNAMICS TECHNOLOGY (DIVD) (WIC) 3 Credit Hours**

Study of technology and the forces it exerts upon society.

**Prerequisite:** ENG 21011.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Diversity Domestic, Writing Intensive Course

**ENGR 31010 ENGINEERING AND PROFESSIONAL ETHICS 3 Credit Hours**

Applications of codes of ethics in the engineering and technology professions reflective of social and moral responsibilities to the public, and accountability in engineering practice.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ENGR 31016 MANUFACTURING TECHNOLOGY 3 Credit Hours**

Classroom, laboratory and field experiences involving the major aspects of a manufacturing enterprise including product design, production financing and marketing.

**Prerequisite:** ENGR 10001 and ENGR 20002.

**Schedule Type:** Laboratory, Lecture, Combined Lecture and Lab

**Contact Hours:** 2 lecture, 3 lab

**Grade Mode:** Standard Letter

**ENGR 31020 AUTOMATED MANUFACTURING 3 Credit Hours**

Theory and operation of computer controlled machine tools, robots and processes.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ENGR 31032 POWER TECHNOLOGY 3 Credit Hours**

Principles of energy conversion and power application. Overview of basic heat engines, machines and transmission devices. Alternative energy systems and conservation techniques.

**Prerequisite:** ENGR 20001 and ENGR 20004.

**Schedule Type:** Laboratory, Lecture, Combined Lecture and Lab

**Contact Hours:** 2 lecture, 2 lab

**Grade Mode:** Standard Letter

**ENGR 31065 CAST METALS 3 Credit Hours**

Principles and processes of metal casting with a focus on current industrial practices. Includes laboratory experience with nonferrous metals and industrial tours.

**Prerequisite:** ENGR 20002.

**Schedule Type:** Laboratory, Lecture, Combined Lecture and Lab

**Contact Hours:** 5 other

**Grade Mode:** Standard Letter

**ENGR 31067 MACHINING TECHNOLOGY I 3 Credit Hours**

Lecture and laboratory experiences in basic machine tool principles and processes.

**Prerequisite:** None.

**Schedule Type:** Laboratory, Lecture, Combined Lecture and Lab

**Contact Hours:** 5 other

**Grade Mode:** Standard Letter

**ENGR 32002 MATERIALS AND PROCESSES II 3 Credit Hours**

Advanced study and practice in materials and processes. Emphasis will be upon developing skills and knowledge in producing a product and conducting problem solving activities.

**Prerequisite:** ENGR 20002.

**Schedule Type:** Laboratory, Lecture, Combined Lecture and Lab

**Contact Hours:** 7 other

**Grade Mode:** Standard Letter

**ENGR 32101 POLYMERS I 3 Credit Hours**

Description of various polymers, thermoplastics and thermosets.

Processes used to produce products. Outline of polymer chemistry including methods of testing and identification.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ENGR 33010 COMPUTER HARDWARE FOR ANIMATION 3 Credit Hours**

Students will gain a complete, step-by-step approach for learning the fundamentals of supporting and troubleshooting computer hardware.

Throughout this course, students will learn the technical skills for PC configuration and troubleshooting. Finally, the students will be exposed to the concepts of Animation and Design through exploring Deep learning concepts, GPUs benchmark tests, peripherals and gaming platforms.

**Prerequisite:** Junior standing.

**Schedule Type:** Laboratory, Lecture, Combined Lecture and Lab

**Contact Hours:** 2 lecture, 2 lab

**Grade Mode:** Standard Letter

**ENGR 33016 PC/NETWORK ENGINEERING AND TROUBLESHOOTING 3 Credit Hours**

Covers the service, maintenance, upgrade and optimization of personal computers. Specification, installation and maintenance of local area networks are covered. Students learn communication protocols and network architecture. Two lectures and two labs a week.

**Prerequisite:** EERT 22014 or ENGR 33010.

**Schedule Type:** Laboratory, Lecture, Combined Lecture and Lab

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**ENGR 33020 COMPUTER HARDWARE II 3 Credit Hours**

An in-depth look at personal computer design and hardware components, and an introduction to the fundamentals of personal computer networks.

Topics include the operation, assembly, configuration, diagnosis, and unit-level troubleshooting of personal computers and their associated hardware components. Also includes an introduction to PC network configuration, hardware, and troubleshooting fundamentals.

**Prerequisite:** ENGR 23010.

**Schedule Type:** Laboratory, Lecture, Combined Lecture and Lab

**Contact Hours:** 2 lecture, 2 lab

**Grade Mode:** Standard Letter

**ENGR 33031 PROGRAMMABLE LOGIC CONTROLLERS 3 Credit Hours**

An introduction to programmable logic controllers (PLCS) covering hardware, ladder logic programming, networking and communications. Programming timers, counters and sequencers and an introduction to human machine interfaces (HMIS).

**Prerequisite:** ENGR 10001, ENGR 21020 and ENGR 21022.

**Schedule Type:** Laboratory, Lecture, Combined Lecture and Lab  
**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**ENGR 33032 PROGRAMMABLE LOGIC CONTROLLERS II 3 Credit Hours**

Advanced principles and applications of programmable logic controllers with a focus on using sequential function charts to control complex industrial processes. Includes real time control issues, PLC networking, programming languages other than ladder logic, standards, motion control, supervisory control and data acquisition, process control, alarm management, power failure strategies and safety.

**Prerequisite:** ENGR 33031.

**Schedule Type:** Laboratory, Lecture, Combined Lecture and Lab

**Contact Hours:** 2 lecture, 2 lab

**Grade Mode:** Standard Letter

**ENGR 33033 HYDRAULICS/PNEUMATICS 3 Credit Hours**

Fluid properties, hydraulic design, viscosity, hydraulic components, pumps, systems and circuits, maintenance and safety, pneumatics, air systems control and design.

**Prerequisite:** PHY 13001 or PHY 23101.

**Schedule Type:** Laboratory, Lecture, Combined Lecture and Lab

**Contact Hours:** 2 lecture, 2 lab

**Grade Mode:** Standard Letter

**ENGR 33040 CONTROL SYSTEMS 3 Credit Hours**

Analysis of mathematical models of feedback control systems. Includes introduction to basic control system terms and devices, open loop and closed loop control, Laplace transforms, static and dynamic response, stability and performance of control systems, frequency response analysis, Bode plot, root locus.

**Prerequisite:** MATH 12002; and ENGR 20004 or ENGR 21020 (and ENGR 21022).

**Schedule Type:** Laboratory, Lecture, Combined Lecture and Lab

**Contact Hours:** 2 lecture, 2 lab

**Grade Mode:** Standard Letter

**ENGR 33092 COOPERATIVE EDUCATION - PROFESSIONAL DEVELOPMENT (ELR) (WIC) 1-3 Credit Hours**

(Repeatable for a maximum of 6 credit hours) Supervised work-study experience in approved business or industrial environment relative to the student's major. A 3 credit hour co-op experience must be for a period of at least 12 consecutive weeks at 40 hours per week, or 30 hours per week for 15 weeks, totaling not less than 450 hours. Most co-ops occur during the summer. Students can earn up to an additional 3 credit hours (one to three per co-op – 150 work hours per credit hour) over the course of their college career as long as each co-op has a different focus.

**Prerequisite:** Minimum 2.250 overall GPA; and sophomore standing; and special approval.

**Schedule Type:** Practical Experience

**Contact Hours:** 10-30 other

**Grade Mode:** Standard Letter-IP

**Attributes:** Experiential Learning Requirement, Writing Intensive Course

**ENGR 33095 SPECIAL TOPICS: APPLIED SCIENCE AND TECHNOLOGY 1-3 Credit Hours**

(Repeatable for credit) Special topics of immediate interest in applied science and technology.

**Prerequisite:** Junior standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 1-3 lecture

**Grade Mode:** Standard Letter

**ENGR 33111 STATICS AND STRENGTH OF MATERIALS 3 Credit Hours**

An algebra based analytical study of equilibrium of extended 2-dimensional bodies, the concepts of elastic and thermal properties of materials, centroid and moment of inertia, and the relationship between the external forces applied to extended objects (generally beams and columns) and the resulting bending and shear stresses, the resulting strains and deformation of the object.

**Prerequisite:** PHY 13001 or PHY 23101.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ENGR 33220 ELECTRONIC DEVICES 4 Credit Hours**

Introduction to electronic non-linear devices including, diodes, transistors, optoelectronic devices and operational amplifiers. Use and application of these devices in different types of application like rectifiers, amplifiers and linear integrated circuits.

**Prerequisite:** ENGR 20004.

**Schedule Type:** Laboratory, Lecture, Combined Lecture and Lab

**Contact Hours:** 3 lecture, 2 lab

**Grade Mode:** Standard Letter

**ENGR 33222 DIGITAL DESIGN FOR COMPUTER ENGINEERING 3 Credit Hours**

Introduction to digital design. The operation and use of digital devices and components as used in microprocessors and digital computers. Topics include binary arithmetic operations, Boolean algebra, logic gates, combinational and sequential logic, buffers, registers, memory devices. Students are exposed to applied problem solving via basic programming with microcontrollers and microprocessors.

**Prerequisite:** ENGR 21020.

**Schedule Type:** Laboratory, Lecture, Combined Lecture and Lab

**Contact Hours:** 2 lecture, 2 lab

**Grade Mode:** Standard Letter

**ENGR 33223 ELECTRONIC COMMUNICATION 3 Credit Hours**

Principles of digital and analog telecommunications and data signals. Topics include electromagnetic signal time and frequency characteristics, signal propagation, signal modulation, transmission lines, wireless signals, antennas, digital signal characteristics and protocols, signal multiplexing, microwave devices and applications.

**Prerequisite:** ENGR 21020 and ENGR 21022.

**Schedule Type:** Laboratory, Lecture, Combined Lecture and Lab

**Contact Hours:** 2 lecture, 2 lab

**Grade Mode:** Standard Letter

**ENGR 33225 INDUSTRIAL CONTROL SYSTEMS 3 Credit Hours**

The application of electronics to the control of industrial machines and processes. Includes laboratory.

**Prerequisite:** ENGR 33220.

**Schedule Type:** Laboratory, Lecture, Combined Lecture and Lab

**Contact Hours:** 2 lecture, 2 lab

**Grade Mode:** Standard Letter



**ENGR 33320 APPLIED EMBEDDED SYSTEMS I 3 Credit Hours**

Course builds upon the content of several other applied engineering courses to establish a foundation for students to utilize embedded systems for engineering problem solving. Students are exposed to the history of the microcontroller that is at the heart of modern embedded systems. Student learn about the different classes of embedded systems and form a foundation from which they can begin to develop solutions to simple, but real-world, problems using simple embedded microcontrollers, electronic devices and sensors. Basic coding principals are explained from an engineering problem-solving perspective.

**Prerequisite:** ENGR 21020, ENGR 21022, ENGR 26200 and ENGR 33222.

**Schedule Type:** Laboratory, Lecture, Combined Lecture and Lab

**Contact Hours:** 2 lecture, 2 lab

**Grade Mode:** Standard Letter

**ENGR 33333 INDUSTRIAL ROBOTICS 3 Credit Hours**

Classification, characteristics, and functions of industrial robots. Covers basic safety precautions for working with robots. Laboratory time will be spent programming FANUC industrial robots and utilizing FANUC robot teach pendants. Students will have the opportunity to obtain a FANUC Robotics Handling Tool Operation and Programming Certificate of Completion.

**Prerequisite:** PHY 13002.

**Schedule Type:** Laboratory, Lecture, Combined Lecture and Lab

**Contact Hours:** 2 lecture, 2 lab

**Grade Mode:** Standard Letter

**ENGR 33363 MATERIALS SCIENCE AND TECHNOLOGY 3 Credit Hours**

Scientific study of modern manufacturing materials (metals, plastics and ceramics) and the laboratory test methods used to determine their manufacturing specifications and properties.

**Prerequisite:** Junior standing.

**Schedule Type:** Laboratory, Lecture, Combined Lecture and Lab

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**ENGR 33657 INTRODUCTION TO LEAN SIX SIGMA 3 Credit Hours**

An introduction to lean six sigma. Including understanding the systems, measuring and defining performance, analyzing, improving, and controlling processes, and leading six sigma initiatives.

**Prerequisite:** MATH 11010.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ENGR 33700 QUALITY TECHNIQUES 3 Credit Hours**

Introduction to quality management and the tools and techniques including the basic tools identified by ASQ (American Society for Quality) as well as an introduction to Lean and Six Sigma. Information presented helps prepare the student to qualify for the Quality Process Analyst Certification.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ENGR 33870 FACILITY DESIGN AND MATERIAL HANDLING 3 Credit Hours**

Provides students with a fundamental understanding of how layout affects the flow through a system. Both qualitative and quantitative tools are presented for complete approach to facility design and material handling.

**Prerequisite:** Junior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ENGR 34002 ADVANCED COMPUTER-AIDED DESIGN II 3 Credit Hours**

Continuation of AGD 22000 with an emphasis on the use of a Parametric-based CAD software (Pro/Engineer) for the design and modeling of industrial products.

**Prerequisite:** AGD 22000 and MERT 12001.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ENGR 35200 THERMAL FLUID ENGINEERING 3 Credit Hours**

First and Second Law of Thermodynamics for closed and open systems. Fundamentals of fluid mechanics and heat transfer.

**Prerequisite:** MATH 22005 or MATH 32051; and PHY 23101.

**Corequisite:** ENGR 35201.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ENGR 35201 THERMAL FLUID ENGINEERING LABORATORY 1 Credit Hour**

Laboratory demonstrations and experiments for various heat transfer and fluid dynamics concepts.

**Prerequisite:** None.

**Corequisite:** ENGR 35200.

**Schedule Type:** Laboratory

**Contact Hours:** 2 lab

**Grade Mode:** Standard Letter

**ENGR 35300 AEROSPACE VEHICLE PERFORMANCE I 3 Credit Hours**

Performance analysis of fixed-wing and rotary-wing aircraft. Equations of motion, evaluation of forces, and performance calculations. Steady and accelerated flight performance.

**Prerequisite:** ENGR 25500; and MATH 32044 or MATH 32052.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ENGR 35400 SYSTEM DYNAMICS AND CONTROL 3 Credit Hours**

Dynamic modeling and response of systems with mechanical, hydraulic, electrical, and or thermal elements. Classical methods of feedback control system design and analysis.

**Prerequisite:** MATH 32044 or MATH 32052; and minimum C grade in ENGR 25400.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter



**ENGR 35500 SIGNALS AND CIRCUITS 3 Credit Hours**

An introduction to electric circuit elements and electronic devices and a study of circuits containing such devices. Both analog and digital systems are considered.

**Prerequisite:** PHY 23102.

**Corequisite:** ENGR 35501.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ENGR 35501 SIGNALS AND CIRCUITS LABORATORY 1 Credit Hour**

Laboratory demonstrations and experiments for electrical circuits, data acquisition, and signal measurements.

**Corequisite:** ENGR 35500.

**Schedule Type:** Laboratory

**Contact Hours:** 2 lab

**Grade Mode:** Standard Letter

**ENGR 35550 LAW AND ETHICS FOR ENGINEERS 3 Credit Hours**

This course examines legal and ethical issues in engineering design. Special focus will be given to Negligence Law, Strict Product Liability Law, Design and Manufacturing defects, Patent, Copyright and Trademark law. Employment law and whistleblower protection will be discussed in the context of the engineer. Special focus will be given through the examination of case studies including but not limited to the Space Shuttle Challenger disaster, the Space Shuttle Columbia Disaster, the Boeing 737 Max crashes.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ENGR 35600 AERODYNAMICS FOR ENGINEERS II 3 Credit Hours**

Compressible flow relationships; compressibility effects on airfoil and wing aerodynamics; shock waves; boundary layer effects on aircraft performance.

**Prerequisite:** ENGR 25500; and MATH 32044 or MATH 32052.

**Pre/corequisite:** ENGR 35200.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ENGR 35765 QUALITY AND RELIABILITY ENGINEERING 3 Credit Hours**

Introduction to reliability and quality engineering with an emphasis on manufacturing and techniques for improving quality and reliability. Includes reliability, reliability prediction, quality techniques, modeling statistical process control, control charts, sampling, experimental design, and designing and manufacturing for quality and reliability.

**Prerequisite:** MATH 11010.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ENGR 36200 PROGRAMMING FOR ENGINEERS II 3 Credit Hours**

Emphasizes engineering problems and applications of programming language and mathematical tools to analyze and solve them. Students are expected to learn problem solving techniques, modeling, simulation, presentation of engineering application oriented problems using programming languages. Advanced modeling, simulations and analysis are the core objective of this course.

**Prerequisite:** ENGR 26200; and junior standing.

**Schedule Type:** Laboratory, Lecture, Combined Lecture and Lab

**Contact Hours:** 2 lecture, 2 lab

**Grade Mode:** Standard Letter

**ENGR 36302 NETWORKING HARDWARE II 3 Credit Hours**

Continuation of ENGR 26301. In-depth coverage of personal computer-based enterprise networking systems hardware with a focus on network hardware and software configuration, fault analysis, diagnostics, and troubleshooting. Topics include router and switch operation, programming, configuration, and troubleshooting, along with overall enterprise network maintenance, troubleshooting, and repair. Course also includes WAN and VLAN fundamentals, intermediate TCP\_IP, and network administration and maintenance as related to fielding and maintaining networking hardware components and systems.

**Prerequisite:** ENGR 26301.

**Schedule Type:** Laboratory, Lecture, Combined Lecture and Lab

**Contact Hours:** 2 lecture, 2 lab

**Grade Mode:** Standard Letter

**ENGR 36337 INFORMATION TECHNOLOGY SECURITY 3 Credit Hours**

This course provides the foundation for understanding the key issues associated with protecting information assets. It covers the essential principles for information security and risk management; making it an important stepping stone of an IT security career. The course is supported with case based industry problems and their solutions through simulation based labs. Additionally, this course prepares students for CompTIA's Security+ SY0-501 certification exam.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ENGR 36620 PROJECT MANAGEMENT IN ENGINEERING AND TECHNOLOGY 3 Credit Hours**

The planning, organizing, directing, and controlling of company technology resources for project-based management functions. Includes project coordination requirements, management and planning methods and the use of various management and planning tools.

**Prerequisite:** Junior or senior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ENGR 37666 KINEMATICS AND DYNAMICS OF MAC 3 Credit Hours**

The study of the kinematics and dynamics of machinery with an emphasis on links, cams and gears.

**Prerequisite:** MATH 32051.

**Corequisite:** MATH 32052.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ENGR 41055 INDUSTRIAL PRACTICE 1-8 Credit Hours**

(Repeatable for credit) Practical experience in industry of cooperative work-study nature.

**Prerequisite:** Junior standing.

**Schedule Type:** Practical Experience

**Contact Hours:** 1-8 other

**Grade Mode:** Standard Letter

**ENGR 41065 SOLID MODELING AND SOLIDIFICATION 3 Credit Hours**

Introduction to casting simulation software with emphasis on projects related to design and filling of casting molds.

**Prerequisite:** ENGR 31065 and ENGR 34002.

**Schedule Type:** Laboratory, Lecture, Combined Lecture and Lab

**Contact Hours:** 2 lecture, 2 lab

**Grade Mode:** Standard Letter

**ENGR 41093 VT WKSP-TECH 1-3 Credit Hours**

(Repeatable for credit) (Slashed with ENGR 51093) Specialized instructional unit oriented toward the application of current technology concepts.

**Prerequisite:** None.

**Schedule Type:** Workshop

**Contact Hours:** 1-3 other

**Grade Mode:** Standard Letter

**ENGR 42100 TRAINING TOPICS IN TECHNOLOGY 1-4 Credit Hours**

(Repeatable for credit) Specialized advanced instruction oriented primarily to the theoretical base and application of current technology developed by experts in the specific technology. This course requires substantial base knowledge.

**Prerequisite:** Special approval.

**Schedule Type:** Lecture

**Contact Hours:** 1-4 lecture

**Grade Mode:** Standard Letter

**ENGR 42111 STRENGTH OF MATERIALS FOR ENGINEERS 3 Credit Hours**

(Slashed with ENGR 52111 and ENGR 72111) The mathematical study of how materials respond to external forces. Stress, strain, torsion; deformation of thin-walled pressure vessels, beams, and columns; and an introduction to energy methods.

**Prerequisite:** ENGR 25200, MATH 32051 and MATH 32052.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ENGR 42200 RADIATION PROCESSING OF MATERIALS 3 Credit Hours**

Description of the radiation sources used in radiation technology and the study of the effects of electrons and gamma rays on materials of technological interest. Experiments deal with the effects of radiation in different materials.

**Prerequisite:** PHY 13002 or PHY 12202; and MATH 12002 or MATH 19002; and ENGR 33363.

**Schedule Type:** Laboratory, Lecture, Combined Lecture and Lab

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**ENGR 42363 MATERIALS SELECTION IN DESIGN AND APPLICATIONS 3 Credit Hours**

Description and analysis of procedures for selecting appropriate materials for a particular mechanical design. The affect of processing on material properties, introduction to materials science for users of materials. Extensive case studies of materials selection and materials and sustainability.

**Prerequisite:** ENGR 20002, MATH 32052 and PHY 23102.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ENGR 42400 RADIATION DOSIMETRY AND SAFETY 3 Credit Hours**

(Slashed with ENGR 52400) Basic concepts of dosimetry and its units as applied to radiation technology, including theory of dosimeter response and use of dosimeters in radiation environments. Safety principles and practices followed in radiation environments, including terminology, maximum exposure limits, and procedures to minimize exposure to radiation.

**Prerequisite:** ENGR 42200.

**Schedule Type:** Laboratory, Lecture, Combined Lecture and Lab

**Contact Hours:** 2 lecture, 2 lab

**Grade Mode:** Standard Letter

**ENGR 43016 ADVANCED PC-NETWORK ENGINEERING AND TROUBLESHOOTING 3 Credit Hours**

An in-depth look at the architecture, operation, configuration, fault analysis, troubleshooting and repair of personal computer and computer network hardware components. Topics include the operation, assembly, configuration, diagnosis, and unit-level troubleshooting of personal computer hardware, computer networking hardware, and related hardware components.

**Prerequisite:** ENGR 33020 and ENGR 36302.

**Schedule Type:** Laboratory, Lecture, Combined Lecture and Lab

**Contact Hours:** 2 lecture, 2 lab

**Grade Mode:** Standard Letter

**ENGR 43026 MICROPROCESSOR SYSTEMS 4 Credit Hours**

(Slashed with ENGR 53026) Introduction to the architecture, operation and applications of an advanced microprocessor, focusing on assembly language programming and interfacing of standard programmable peripherals.

**Prerequisite:** ENGR 33222 and ENGR 46330.

**Schedule Type:** Laboratory, Lecture, Combined Lecture and Lab

**Contact Hours:** 3 lecture, 2 lab

**Grade Mode:** Standard Letter

**ENGR 43030 MECHATRONICS 3 Credit Hours**

Application of automation concepts in motion control, electrical circuits, fundamental mechanics, control systems and programming including modeling, interfacing and signal conditioning.

**Prerequisite:** PHY 23102 and ENGR 33040.

**Pre/corequisite:** ENGR 33031.

**Schedule Type:** Laboratory, Lecture, Combined Lecture and Lab

**Contact Hours:** 2 lecture, 2 lab

**Grade Mode:** Standard Letter

**ENGR 43031 MECHATRONICS II 3 Credit Hours**

Advanced modeling, system response, closed loop control and system software for mechatronic systems.

**Prerequisite:** ENGR 43030.

**Schedule Type:** Laboratory, Lecture, Combined Lecture and Lab

**Contact Hours:** 2 lecture, 2 lab

**Grade Mode:** Standard Letter

**ENGR 43050 INVENTIVE PROBLEM SOLVING 3 Credit Hours**

Theory of Inventive Problem Solving, TRIZ, is a collection of powerful problem-solving tools for a broad range of inventive problems. Capstone web-based course for students finishing their bachelor's degree. Assists students in utilizing material learned in earlier courses to solve many real world problems in multiple disciplines.

**Prerequisite:** Junior or senior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ENGR 43060 MANAGEMENT OF TECHNOLOGY INNOVATION 3 Credit Hours**

Subjects covered in this course are case studies of innovative companies, elements of an innovation process, review of major problem solving methods, technical opportunity analysis, technical planning, technological forecasting, concept development and elements of patents. A project is included that utilizes TRIZ software and innovation model elements.

**Prerequisite:** Junior or senior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ENGR 43080 INDUSTRIAL AND ENVIRONMENTAL SAFETY 3 Credit Hours**

Examines the occupational safety and health act and fundamentals of industrial safety programs.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ENGR 43096 INDIVIDUAL INVESTIGATION IN APPLIED SCIENCE AND TECHNOLOGY 1-3 Credit Hours**

(Repeatable for credit) Work study of an individual nature on a topic in a field of applied science and technology.

**Prerequisite:** Junior standing; and special approval.

**Schedule Type:** Individual Investigation

**Contact Hours:** 1-3 other

**Grade Mode:** Standard Letter-IP

**ENGR 43220 ELECTRICAL MACHINERY 3 Credit Hours**

Principles of operation and application of motors, generators, transformers and other magnetic devices; electrical power generation, distribution and use.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ENGR 43221 DIGITAL CONTROL SYSTEMS AND INSTRUMENTATION 4 Credit Hours**

(Slashed with ENGR 53221) Focuses on applications of instrumentation and control systems using computers and microcontrollers including sensors, transducers, instruments, data acquisition boards, software programs, signal conditioning and transmission methods.

**Prerequisite:** MATH 12003 and PHY 23102 and ENGR 43026.

**Pre/corequisite:** ENGR 33223.

**Schedule Type:** Laboratory, Lecture, Combined Lecture and Lab

**Contact Hours:** 3 lecture, 2 lab

**Grade Mode:** Standard Letter

**ENGR 43222 COMPUTER HARDWARE ENGINEERING AND ARCHITECTURE 3 Credit Hours**

(Slashed with ENGR 53222) Internal architecture and operation of digital computers. Topics include computer processor datapaths and control, computer memory datapaths and control, pipelining and parallel processing, memory architecture and management, IO control, system bus architecture and properties, storage systems, and computer control timing and synchronization. Students gain understanding in how system software manages system resources and abstracts programming requirements. Alternative architectures such as embedded systems and SoC platforms are discussed. Industry standards for calculating system performance are used.

**Prerequisite:** EMAT 26010 or ENGR 33222.

**Schedule Type:** Laboratory, Lecture, Combined Lecture and Lab

**Contact Hours:** 2 lecture, 2 lab

**Grade Mode:** Standard Letter

**ENGR 43320 APPLIED EMBEDDED SYSTEMS II 3 Credit Hours**

This course serves as an extension of ENGR 33333. The student will develop advanced engineering problem solving techniques using embedded system microcontrollers. Further programming in Embedded C is supported by this practical problem solving approach. Assembler language is discussed to solve specific hardware issues. A broad survey of special use computing hardware such as FPGAs, ASICs and SoC platforms is covered with basic approaches to leverage and program these devices.

**Prerequisite:** ENGR 33333 and ENGR 36200.

**Schedule Type:** Laboratory, Lecture, Combined Lecture and Lab

**Contact Hours:** 2 lecture, 2 lab

**Grade Mode:** Standard Letter

**ENGR 43550 COMPUTER-AIDED MANUFACTURING 3 Credit Hours**

(Slashed with ENGR 53550) The application of computers to the preparation of machine tool control programs.

**Prerequisite:** ENGR 10001 or ENGR 26010; and ENGR 20002.

**Schedule Type:** Laboratory, Lecture, Combined Lecture and Lab

**Contact Hours:** 5 other

**Grade Mode:** Standard Letter

**ENGR 43580 COMPUTER-AIDED MACHINE DESIGN 3 Credit Hours**

Application of the principles of mechanics and strength of materials, with computer assistance to the design and selection of machine components under both static and dynamic loads.

**Prerequisite:** ENGR 10001 or ENGR 26010; and ENGR 33111 and ENGR 34002 and MATH 12002 and PHY 13001.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ENGR 43700 COMPUTER-INTEGRATED MANUFACTURING 3 Credit Hours**

(Slashed with ENGR 53700) Study of the computer-integrated manufacturing system as it relates to product design, estimating inventory, machining and assembly, quality control and distribution.

**Prerequisite:** ENGR 43550.

**Schedule Type:** Laboratory, Lecture, Combined Lecture and Lab

**Contact Hours:** 5 other

**Grade Mode:** Standard Letter

**ENGR 43899 APPLIED ENGINEERING TECHNOLOGY SEMINAR 3 Credit Hours**

As the capstone course in Applied Engineering and Mechanical Engineering Technology, students will develop and participate in all aspects of a project involving the solution of a problem through application of technology. Students must pass the ATMAE Certified Technology Manager (CTM) exam.

**Prerequisite:** Applied engineering major or mechanical engineering technology major; and senior standing.

**Schedule Type:** Project or Capstone, Seminar

**Contact Hours:** 1 lecture, 2 other

**Grade Mode:** Standard Letter

**ENGR 44000 ANDROID DEVELOPMENT TOOLS FOR INSTRUMENT CONTROL 3 Credit Hours**

The Android Development Tools for Instrument Control course examines the principles of application design and development for instrument control. More specifically, this course's focus on device control using various android tools, for example, robots. Students will learn how to control and manage hardware using android tools. Topics will include android architecture, security, different types of hardware devices and their architecture.

**Prerequisite:** ENGR 26200 or ENGR 46330; and senior standing.

**Schedule Type:** Laboratory, Lecture, Combined Lecture and Lab

**Contact Hours:** 2 lecture, 2 lab

**Grade Mode:** Standard Letter

**ENGR 45099 CAPSTONE: FOUNDRY TOOLING AND PATTERN MAKING (ELR) 3 Credit Hours**

Capstone course for Applied Engineering Foundry Technology concentration. A project based lecture-lab focused on production of foundry tooling, testing, and quality approval.

**Prerequisite:** ENGR 41065 and ENGR 43550.

**Schedule Type:** Laboratory, Lecture, Combined Lecture and Lab, Project or Capstone

**Contact Hours:** 2 lecture, 2 lab

**Grade Mode:** Standard Letter

**Attributes:** Experiential Learning Requirement

**ENGR 45121 AEROSPACE PROPULSION FOR ENGINEERING AND ENGINEERING TECHNOLOGY 3 Credit Hours**

An in-depth study of gas turbine engines, rockets, and hypersonic propulsion systems used in aerospace applications. Includes propulsion system design and operation, and the analysis of performance characteristics.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ENGR 45151 APPLIED FLIGHT DYNAMICS II 3 Credit Hours**

Aerodynamics, flight dynamics, and flight performance of high performance aircraft. Course includes supersonic aerodynamics, flight stability and handling, and an in-depth investigation and analysis of flight performance parameters including lift, drag, load factor, climb performance, and turn performance.

**Prerequisite:** AERN 45150.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter-IP

**ENGR 45600 AEROSPACE VEHICLE PERFORMANCE II 3 Credit Hours**

Three-dimensional aircraft rigid body dynamics, aircraft equations of motion, principles of static stability and control, dynamic stability of uncontrolled motion, gyroscopic instruments.

**Prerequisite:** A minimum C grade in ENGR 25500 and ENGR 35400.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ENGR 45700 AIRCRAFT DESIGN (ELR) 3 Credit Hours**

(Slashed with AERN 55700) First of a two-course series of aerospace design. Preliminary design or case study of an aerospace vehicle, including but not limited to, aircraft, rotorcraft and spacecraft. Primary focus on introduction to design, decision-making in design and preliminary sizing of an aerospace vehicle to meet customer requirements. Final technical report and presentation.

**Prerequisite:** (AERN 45030 and AERN 45150 and ENGR 45121) or (ENGR 35300 and ENGR 35500 and ENGR 45121).

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Experiential Learning Requirement

**ENGR 45850 AIRCRAFT DESIGN II (WIC) 3 Credit Hours**

Second of a two-course series of aerospace design. Preliminary design or case study of an aerospace vehicle, including but not limited to aircraft, rotorcraft, and spacecraft. Primary focus on sub-system design (i.e., propulsion, structure, controls, etc.), and overall vehicle integration of these subsystems. Cost analysis and safety analysis. Final technical report and or model prototype.

**Prerequisite:** ENGR 45600 and ENGR 45700.

**Pre/corequisite:** AERN 45900.

**Schedule Type:** Laboratory, Lecture, Combined Lecture and Lab

**Contact Hours:** 2 lecture, 2 lab

**Grade Mode:** Standard Letter

**Attributes:** Writing Intensive Course

**ENGR 45901 INTRODUCTION TO FINITE ELEMENT METHOD AND APPLICATIONS 3 Credit Hours**

(Slashed with ENGR 55901 and ENGR 75901) The objective of this course is to teach in a unified manner the fundamentals of the finite element method for the analysis of engineering problems arising in solids and structures. The course will emphasize the solution of real-life problems using the finite element method and students will get exposure to commercial finite element software (ANSYS or ABAQUS) and will learn to critically evaluate finite element models. Examples will be provided for solid, fluid, and heat transfer applications. Finally, developing an understanding of the computational aspects of the finite-element method and its application in realistic aerospace applications are the core goals of this course. Prerequisite: MATH 32044 or MATH 32052; and senior standing

**Schedule Type:** Laboratory, Lecture, Combined Lecture and Lab

**Contact Hours:** 2 lecture, 2 lab

**Grade Mode:** Standard Letter

**ENGR 46099 COMPUTER ENGINEERING TECHNOLOGY CAPSTONE 3 Credit Hours**

The course provides students with an integrative experience, applying aspects of the student's required coursework in computer engineering technology. Students gain experience in developing requirements in engineering specifications for a practical problem in networking and or telecom-related projects. This course will address emerging issues, capabilities and challenges in the current field of study.

**Prerequisite:** Senior standing.

**Pre/corequisite:** ENGR 46350.

**Schedule Type:** Laboratory, Lecture, Combined Lecture and Lab, Project or Capstone

**Contact Hours:** 2 lecture, 2 lab

**Grade Mode:** Standard Letter



**ENGR 46300 NETWORK SECURITY 3 Credit Hours**

Introduction to Network security with emphasis in identifying, analyzing and preventing various threats and attack patterns on computer networks. Students will gain practical knowledge on network security protocols, firewalls, VPN, Intrusion detection and prevention systems. Prepares students for industry certification.

**Prerequisite:** ENGR 26301.

**Schedule Type:** Laboratory, Lecture, Combined Lecture and Lab

**Contact Hours:** 2 lecture, 2 lab

**Grade Mode:** Standard Letter

**ENGR 46312 WIRELESS NETWORK AND TELECOMMUNICATION SYSTEMS 3 Credit Hours**

(Slashed with ENGR 56312) Course builds upon existing wired networking skills and extends the students' knowledge into the world of wireless networking. Students learn digital wireless fundamentals, wireless standards, how to implement a wireless network in an enterprise environment and how to trouble shoot wireless issues. Curriculum follows and prepares students for industry certification in wireless networking.

**Prerequisite:** ENGR 26301.

**Pre/corequisite:** ENGR 36302.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ENGR 46316 SERVER ADMINISTRATION AND CONFIGURATION I 3 Credit Hours**

This course emphasizes on configuring and administering server operating systems to solve engineering problems. Students are expected to learn MS server management, Active Directory, OUs and server roles by utilizing variety of on-based and cloud based solutions.

**Prerequisite:** None.

**Schedule Type:** Laboratory, Lecture, Combined Lecture and Lab

**Contact Hours:** 2 lecture, 2 lab

**Grade Mode:** Standard Letter

**ENGR 46330 VISUAL BASIC PROGRAMMING IN ENGINEERING TECHNOLOGY 3 Credit Hours**

(Slashed with ENGR 56330) Course includes programming in a high-level object-oriented, event-driven visual programming language, Visual Basic 2010 Express, conditional statements, iterative statements, arrays, object oriented programming, classes, objects, methods, inheritance, exception handling, graphical user interfaces with Windows Forms.

**Prerequisite:** EMAT 26010 or ENGR 26010.

**Schedule Type:** Laboratory, Lecture, Combined Lecture and Lab

**Contact Hours:** 4 other

**Grade Mode:** Standard Letter

**ENGR 46350 NETWORK MANAGEMENT AND DESIGN TECHNOLOGY 3 Credit Hours**

(Slashed with ENGR 56350) Course covers the technical aspects of centrally managed and distributed Wide Area Networks, with an emphasis on the techniques used to maintain and improve the performance of telecommunications and data networks. Students will use software packages to monitor the real-time performance of a network and to diagnose various networking hardware and software problems. Topics include the five stacks of network management (fault management, configuration management, performance management, security management, and accounting management). Examples of current specific network management products are reviewed.

**Prerequisite:** ENGR 36302.

**Schedule Type:** Laboratory, Lecture, Combined Lecture and Lab

**Contact Hours:** 2 lecture, 2 lab

**Grade Mode:** Standard Letter

**ENGR 46411 REQUIREMENTS ENGINEERING AND ANALYSIS 3 Credit Hours**

(Slashed with ENGR 56411) Techniques to conceptualize, develop and analyze requirements engineering specifications for practical systems. Topics covered include identifying stakeholders and how to effectively work with them, requirements elicitation techniques; requirements engineering in the problem and solution domains. The students are provided with an opportunity to participate in formal review of their projects by industry experts. Strong analytic skills, algorithms or programming experience is recommended.

**Prerequisite:** EMAT 26010 or ENGR 26010 with a minimum C grade.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ENGR 46510 APPLIED INFORMATION TECHNOLOGY SECURITY 3 Credit Hours**

The purpose of the course is to provide the student with an overview of the field of information security and assurance. Students will be exposed to the spectrum of security activities, methods, methodologies, and procedures. Coverage will include inspection and protection of information assets, detection of and reaction to threats to information assets, and examination of pre and post incident procedures and an overview of the information technology security.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ENGR 47200 SYSTEMS ENGINEERING 3 Credit Hours**

(Slashed with ENGR 57200) Systems engineering as a method to solve problems. Introduction to the fundamental systems engineering principles, processes, and methodologies used to analyze, design, develop, and deploy complex, sustainable systems. Focuses on systems engineering as a logical, disciplined, systematic, and coherent approach to the design and development of a system, across the full life cycle of the system. Special emphasis is made on the concepts, methods, and activities used to analyze systems, to define and allocate requirements, to transform requirements into a system design, and to verify and validate the system.

**Prerequisite:** Junior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter



**ENGR 47210 SUSTAINABLE ENERGY I 3 Credit Hours**

(Slashed with ENGR 57210) A comprehensive overview of energy sources and energy systems, with an emphasis on renewable energy and the implementation and sustainability of various forms of energy. Examines the characteristics of conventional non-renewable energy systems, along with alternate, renewable energy sources and systems. Includes fundamental energy concepts and the conversion, delivery, distribution, and storage of energy. Explores the technological application of various sources of energy and compares their benefits and limitations. Also presents an overview of present U.S. and global energy needs and demands, and the sustainable energy technologies that may be used to meet future energy demands.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ENGR 47211 SUSTAINABLE ENERGY II 3 Credit Hours**

(Slashed with ENGR 57211) An in-depth study of the analysis, selection and implementation of various energy and power sources, with an emphasis on the use of renewable, sustainable energy systems. Focuses on determining energy needs, and on assessing and comparing energy systems with respect to efficiency, technical feasibility, available resources, cost and sustainability characteristics. Includes economics of energy systems, methods for determining costs, and cost-benefit analysis of various energy and power systems. Also includes the social, economic and environmental impact associated with the development, implementation and use of various forms of energy.

**Prerequisite:** ENGR 47210.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ENGR 48001 ORBITAL MECHANICS 3 Credit Hours**

(Slashed with ENGR 58001 and ENGR 78001) The course is an introduction to orbital and trajectory design. Topics include Newton's law of gravity; two-body motion, relative equations of motion; conic sections; orbits in three dimensions; orbital maneuvers; and interplanetary transfers.

**Prerequisite:** ENGR 35400 and MATH 32052; and senior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ENGR 48002 SPACECRAFT ATTITUDE DYNAMICS, DETERMINATION AND CONTROL 3 Credit Hours**

(Slashed with ENGR 58002 and ENGR 78002) Spacecraft rigid body equations of motion in terms of direction cosines, angles, and quaternions. Determination of the attitude stability with external torques and coupling with orbital motion. Overview of state-of-the-art hardware and technology for attitude control, including gas jet, electric thrusters, momentum wheels and magnetic torquers; attitude sensing hardware: sun sensors, magnetometers, GPS, IMUs, star tracker. Attitude determination technique; attitude stabilization and control.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ENGR 48004 OPTIMAL CONTROL THEORY 3 Credit Hours**

(Slashed with ENGR 58004 and ENGR 78004) The course introduces students to the theory and numerical calculation of optimal space trajectories and related optimization problems in aerospace engineering. This course provides the essential technical components of space trajectory design and space trajectory optimization. Students develop basic engineering skills in formulating and solving open-ended problems and in writing a project report.

**Prerequisite:** ENGR 35400 and MATH 32052; and senior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ENGR 48099 ENGINEERING CAPSTONE I (ELR) 3 Credit Hours**

First of a two-course capstone sequence for engineering and engineering technology students. Students work as members of an integrated product team under a faculty advisor to develop a conceptual design/prototype of a complex system that accomplishes a set of functional requirements. These projects can take the form of state, regional, or national design competitions, governmental-sponsored projects or industry-sponsored projects.

**Prerequisite:** ENGR 47200.

**Schedule Type:** Project or Capstone

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter-IP

**Attributes:** Experiential Learning Requirement

**ENGR 48199 ENGINEERING CAPSTONE II (ELR) (WIC) 3 Credit Hours**

Second of a two-course capstone sequence for engineering and engineering technology students. Students work as members of an integrated product team under a faculty advisor to develop a conceptual design/prototype of a complex system that accomplishes a set of functional requirements. These projects can take the form of state, regional, or national design competitions, governmental-sponsored projects, or industry-sponsored projects.

**Prerequisite:** ENGR 48099.

**Schedule Type:** Project or Capstone

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter-IP

**Attributes:** Experiential Learning Requirement, Writing Intensive Course

**ENGR 50092 INDUSTRIAL PRACTICE 1-4 Credit Hours**

Practical experience in industry of a cooperative work-study nature.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Practical Experience

**Contact Hours:** 3-12 other

**Grade Mode:** Standard Letter

**ENGR 51093 VARIABLE TITLE WORKSHOP IN TECHNOLOGY 1-3 Credit Hours**

(Repeatable for credit) (Slashed with ENGR 41093) Specialized instructional unit oriented toward the application of current technology concepts.

**Prerequisite:** Graduate standing.

**Schedule Type:** Workshop

**Contact Hours:** 1-3 other

**Grade Mode:** Satisfactory/Unsatisfactory

**ENGR 52111 STRENGTH OF MATERIALS FOR ENGINEERS 3 Credit Hours**

(Slashed with ENGR 42111 and ENGR 72111) The mathematical study of how materials respond to external forces. Stress, strain, torsion; deformation of thin-walled pressure vessels, beams, and columns; and an introduction to energy methods.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ENGR 52200 RADIATION PROCESSING OF MATERIALS 3 Credit Hours**

Understand the basic mechanisms of the interaction of alpha, beta, and gamma radiation with matter. Understand how radiation is absorbed in matter. Learn the effects of radiation in different materials of consumers' importance like, biological materials, medical devices, polymers, inks and coatings.

**Prerequisite:** ENGR 52400; and graduate standing.

**Schedule Type:** Laboratory, Lecture, Combined Lecture and Lab

**Contact Hours:** 2 lecture, 2 lab

**Grade Mode:** Standard Letter

**ENGR 52363 MATERIALS SELECTION IN DESIGN AND APPLICATIONS 3 Credit Hours**

(Slashed with ENGR 42363 and ENGR 72363) Description and analysis of procedures for selecting appropriate materials for a particular mechanical design. The affect of processing on material properties, introduction to materials science for users of materials. Extensive case studies of materials selection and materials and sustainability.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ENGR 52400 RADIATION DOSIMETRY AND SAFETY 3 Credit Hours**

(Slashed with ENGR 42400) Basic concepts of dosimetry and its units as applied to radiation technology, including theory of dosimeter response and use of dosimeters in radiation environments. Safety principles and practices followed in radiation environments, including terminology, maximum exposure limits, and procedures to minimize exposure to radiation.

**Prerequisite:** Graduate standing.

**Schedule Type:** Laboratory, Lecture, Combined Lecture and Lab

**Contact Hours:** 2 lecture, 2 lab

**Grade Mode:** Standard Letter

**ENGR 53026 INTRODUCTION TO MICROPROCESSORS 4 Credit Hours**

(Slashed with ENGR 43026) Introduction to the architecture, operation and applications of an advanced microprocessor, focusing on assembly language programming and interfacing of standard programmable peripherals.

**Prerequisite:** Graduate standing.

**Schedule Type:** Laboratory, Lecture

**Contact Hours:** 3 lecture, 2 lab

**Grade Mode:** Standard Letter

**ENGR 53221 DIGITAL CONTROL SYSTEMS AND INSTRUMENTATION 4 Credit Hours**

(Slashed with ENGR 43221) Focuses on applications of instrumentation and control systems using computers and microcontrollers including sensors, transducers, instruments, data acquisition boards, software programs, signal conditioning and transmission methods.

**Prerequisite:** Graduate standing.

**Schedule Type:** Laboratory, Lecture, Combined Lecture and Lab

**Contact Hours:** 3 lecture, 2 lab

**Grade Mode:** Standard Letter

**ENGR 53222 COMPUTER HARDWARE ENGINEERING AND ARCHITECTURE 3 Credit Hours**

(Slashed with ENGR 43222) Internal architecture and operation of digital computers. Topics include computer processor datapaths and control, computer memory datapaths and control, pipelining and parallel processing, memory architecture and management, IO control, system bus architecture and properties, storage systems, and computer control timing and synchronization. Students gain understanding in how system software manages system resources and abstracts programming requirements. Alternative architectures such as embedded systems and SoC platforms are discussed. Industry standards for calculating system performance are used.

**Prerequisite:** Graduate standing.

**Schedule Type:** Laboratory, Lecture, Combined Lecture and Lab

**Contact Hours:** 2 lecture, 2 lab

**Grade Mode:** Standard Letter

**ENGR 53550 COMPUTER-AIDED MANUFACTURING 3 Credit Hours**

(Slashed with ENGR 43550) The application of computers to the preparation of machine tool control programs.

**Prerequisite:** Graduate standing.

**Schedule Type:** Laboratory, Lecture, Combined Lecture and Lab

**Contact Hours:** 2 lecture, 2 lab

**Grade Mode:** Standard Letter

**ENGR 53700 COMPUTER INTEGRATED MANUFACTUR 3 Credit Hours**

(Slashed with ENGR 43700) Study of the computer-integrated manufacturing system as it relates to product design, estimating inventory, machining and assembly, quality control and distribution.

**Prerequisite:** ENGR 53550; and graduate standing.

**Schedule Type:** Laboratory, Lecture, Combined Lecture and Lab

**Contact Hours:** 2 lecture, 2 lab

**Grade Mode:** Standard Letter

**ENGR 53899 APPLIED ENGINEERING TECHNOLOGY SEMINAR 2 Credit Hours**

An individual or group project involving the solution of a problem through the application of technology.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Project or Capstone, Seminar

**Contact Hours:** 1 lecture, 2 other

**Grade Mode:** Standard Letter

**ENGR 55901 INTRODUCTION TO FINITE ELEMENT METHOD AND APPLICATIONS 3 Credit Hours**

(Slashed with ENGR 45901 and ENGR 75901) The objective of this course is to teach in a unified manner the fundamentals of the finite element method for the analysis of engineering problems arising in solids and structures. The course will emphasize the solution of real-life problems using the finite element method and students will get exposure to commercial finite element software (ANSYS or ABAQUS) and will learn to critically evaluate finite element models. Examples will be provided for solid, fluid, and heat transfer applications. Finally, developing an understanding of the computational aspects of the finite-element method and its application in realistic aerospace applications are the core goals of this course.

**Prerequisite:** Graduate standing.

**Schedule Type:** Laboratory, Lecture, Combined Lecture and Lab

**Contact Hours:** 2 lecture, 2 lab

**Grade Mode:** Standard Letter

**ENGR 56312 WIRELESS NETWORK AND TELECOMMUNICATION SYSTEMS 3 Credit Hours**

(Slashed with ENGR 46312) This course builds upon existing wired networking skills and extends the students' knowledge into the world of wireless networking. Students learn digital wireless fundamentals, wireless standards, how to implement a wireless network in an enterprise environment and how to trouble shoot wireless issues. Curriculum follows and prepares students for industry certification in wireless networking.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ENGR 56321 WEB DATABASE INTEGRATION 3 Credit Hours**

Laboratory course focused on integrating data sources into web sites. Current topics include server-side processing principles, Web forms, database programming objects and structured query language.

**Prerequisite:** Graduate standing.

**Schedule Type:** Laboratory, Lecture, Combined Lecture and Lab

**Contact Hours:** 1 lecture, 4 lab

**Grade Mode:** Standard Letter

**ENGR 56330 VISUAL BASIC PROGRAMMING IN ENGINEERING TECHNOLOGY 3 Credit Hours**

(Slashed with ENGR 46330) Course includes programming in a high-level object-oriented, event-driven visual programming language, Visual Basic 2010 Express, conditional statements, iterative statements, arrays, object oriented programming, classes, objects, methods, inheritance, exception handling, graphical user interfaces with Windows Forms.

**Prerequisite:** Graduate standing.

**Schedule Type:** Laboratory, Lecture, Combined Lecture and Lab

**Contact Hours:** 2 lecture, 2 lab

**Grade Mode:** Standard Letter

**ENGR 56350 NETWORK MANAGEMENT AND DESIGN TECHNOLOGY 3 Credit Hours**

(Slashed with ENGR 46350) Course covers the technical aspects of centrally managed and distributed Wide Area Networks, with an emphasis on the techniques used to maintain and improve the performance of telecommunications and data networks. Students will use software packages to monitor the real-time performance of a network and to diagnose various networking hardware and software problems. Topics include the five stacks of network management (fault management, configuration management, performance management, security management, and accounting management). Examples of current specific network management products are reviewed.

**Prerequisite:** Graduate standing.

**Schedule Type:** Laboratory, Lecture, Combined Lecture and Lab

**Contact Hours:** 2 lecture, 2 lab

**Grade Mode:** Standard Letter

**ENGR 56411 REQUIREMENTS ENGINEERING AND ANALYSIS TECHNOLOGY 3 Credit Hours**

Techniques to conceptualize, develop and analyze requirements engineering specifications for software and telecommunications systems. Topics covered include identifying stakeholders and how to effectively work with them, requirements elicitation techniques; requirements engineering in the problem and solution domains. Strong analytic skills, algorithms or programming experience is recommended.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ENGR 57200 SYSTEMS ENGINEERING 3 Credit Hours**

(Slashed with ENGR 47200) Systems engineering as a method to solve problems. Introduction to the fundamental systems engineering principles, processes, and methodologies used to analyze, design, develop, and deploy complex, sustainable systems. Focuses on systems engineering as a logical, disciplined, systematic, and coherent approach to the design and the development of a system, across the full life cycle of the system. Special emphasis is made on the concepts, methods and activities used to analyze systems, to define and allocate requirements, to transform requirements into a system design, and to verify and validate the system.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ENGR 57210 SUSTAINABLE ENERGY I 3 Credit Hours**

(Slashed with ENGR 47210) A comprehensive overview of energy sources and energy systems, with an emphasis on renewable energy and the implementation and sustainability of various forms of energy. Examines the characteristics of conventional non-renewable energy systems, along with alternate, renewable energy sources and systems. Includes fundamental energy concepts and the conversion, delivery, distribution, and storage of energy. Explores the technological application of various sources of energy and compares their benefits and limitations. Also presents an overview of presents U.S. and global energy needs and demands, and the sustainable energy technologies that may be used to meet future energy demands.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ENGR 57211 SUSTAINABLE ENERGY II 3 Credit Hours**

(Slashed with ENGR 47211) An in-depth study of the analysis, selection and implementation of various energy and power sources, with an emphasis on the use of renewable, sustainable energy systems. Focuses on determining energy needs, and on assessing and comparing energy systems with respect to efficiency, technical feasibility, available resources, cost and sustainability characteristics. Includes economics of energy systems, methods for determining costs, and cost-benefit analysis of various energy and power systems. Also includes the social, economic, and environmental impact associated with the development, implementation, and use of various forms of energy.

**Prerequisite:** ENGR 57210; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ENGR 58001 ORBITAL MECHANICS 3 Credit Hours**

(Slashed with ENGR 48001 and ENGR 78001) The course is an introduction to orbital and trajectory design. Topics include Newton's law of gravity; two-body motion, relative equations of motion; conic sections; orbits in three dimensions; orbital maneuvers; and interplanetary transfers.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ENGR 58002 SPACECRAFT ATTITUDE DYNAMICS, DETERMINATION AND CONTROL 3 Credit Hours**

(Slashed with ENGR 48002 and ENGR 78002) Spacecraft rigid body equations of motion in terms of direction cosines, angles, and quaternions. Determination of the attitude stability with external torques and coupling with orbital motion. Overview of state-of-the-art hardware and technology for attitude control, including gas jet, electric thrusters, momentum wheels and magnetic torquers; attitude sensing hardware: sun sensors, magnetometers, GPS, IMUs, star tracker. Attitude determination technique; attitude stabilization and control.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ENGR 58003 SPACECRAFT DESIGN 3 Credit Hours**

(Slashed with ENGR 78003) Spacecraft mission design course with a focus on hands-on design experience. The first portion of the course is lecture-based. Topics include launch systems, space environment, spacecraft orbits, and ground tracks, spacecraft design and sizing, budget designs, subsystem design and evaluation, cost and risk. The second portion is dedicated to student teamwork on the spacecraft design.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ENGR 58004 OPTIMAL CONTROL THEORY 3 Credit Hours**

(Slashed with ENGR 48004 and ENGR 78004) The course introduces students to the theory and numerical calculation of optimal space trajectories and related optimization problems in aerospace engineering. This course provides the essential technical components of space trajectory design and space trajectory optimization. Students develop basic engineering skills in formulating and solving open-ended problems and in writing a project report.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ENGR 58005 LINEAR SYSTEM ANALYSIS AND CONTROL 3 Credit Hours**

(Slashed with ENGR 78005) This course covers the analysis and synthesis of linear dynamical systems. Fundamental concepts including canonical representations, the state transition matrix, and the properties of controllability and observability will be discussed. The existence and synthesis of stabilizing feedback control laws using pole placement and linear-quadratic optimal control will be discussed.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ENGR 58006 NONLINEAR SYSTEMS AND CONTROL 3 Credit Hours**

(Slashed with ENGR 78006) Overview of stability concepts and examination of various methods for assessing stability such as linearization and Lyapunov methods. Introduction to various design methods based on linearization, sliding modes, adaptive control, and feedback linearization.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ENGR 58007 DIGITAL CONTROL SYSTEMS 3 Credit Hours**

(Slashed with ENGR 78007) This course covers design and analysis of sampled-data and digital control systems. Fundamental concepts include introduction to digital control and discrete transform (z-transform), discrete and hybrid signal flow graphs (SFGs), solution of discrete-time state space models, time-response and characteristic equations, stability analysis for discrete time systems, root locus, Bode plot, and Nyquist method for sampled data systems, pole placement, and state estimation for discrete time systems.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ENGR 58100 INTELLIGENT SENSING AND PLANNING OF UNMANNED AERIAL SYSTEMS 3 Credit Hours**

(Slashed with ENGR 78100) This course will focus on real-world environment understanding for the UAV systems. This course introduces students the state-of-the-art artificial intelligence methods for planning UAV missions in real-world.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ENGR 58200 AUTONOMOUS UNMANNED AERIAL SYSTEMS 3 Credit Hours**

(Slashed with ENGR 78200) This course provides an advanced-level understanding of unmanned aerial vehicles in physical system design, payload, and stealth design, navigation and deployment regulations. This course introduces students the state-of-the-art artificial intelligence methods for UAS deployments in different urban, forest, and water surface scenarios.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ENGR 60000 PROJECT MANAGEMENT IN A TECHNOLOGICAL ENVIRONMENT 3 Credit Hours**

The planning, organizing, directing and controlling of company technology resources for relatively short term objectives. Students will also learn to make application of current projects.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ENGR 60001 QUANTITATIVE METHODS IN TECHNOLOGY 3 Credit Hours**

Descriptive and inferential statistics used in technology and engineering. Emphasis is on the methods of analysis and the interpretation of data associated with research and development in technological and engineering environments. Course topics include representation of data, descriptive statistics, probability and probability distributions, inferential statistics, statistical design, and the analysis of experiments. No previous familiarity with probability or statistics is assumed. The ability to utilize basic algebra is required.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ENGR 60003 SIX-SIGMA: TOOLS AND APPLICATIONS FOR TECHNOLOGY MANAGEMENT 2 Credit Hours**

Principles and concepts of six-sigma to improve organizational efficiency, effectiveness and productivity by improving quality, reducing waste, defects and failures.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**ENGR 60010 RADIATION SOURCES FOR RADIATION PROCESSING 3 Credit Hours**

Description of the basic types of radiations used for Radiation Processing and how these radiations are produced. Describe the types of gamma, electron, and Bremsstrahlung facilities used in the area of Radiation Processing and the qualifications of an irradiator to be used in this area. The student will also learn about the different industries that use ionizing radiation in their processes.

**Prerequisite:** ENGR 52400; and graduate standing.

**Schedule Type:** Laboratory, Lecture, Combined Lecture and Lab

**Contact Hours:** 2 lecture, 2 lab

**Grade Mode:** Standard Letter

**ENGR 60020 QUALITY STANDARDS 3 Credit Hours**

This course introduces students to issues in quality standards, quality assurance and statistical inference in applied technology and process control. Topics include systems reliability, quality control, SPC, control charts, principles and methods of statistical analysis and prediction, and hypothesis testing.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ENGR 60078 RESEARCH METHODS IN TECHNOLOGY 3 Credit Hours**

Research techniques for the technologist. Methods for designing, conducting, analyzing and interpreting results of technological research.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ENGR 61000 INDUSTRIAL TECHNOLOGY EDUCATION 3 Credit Hours**

This course provides students with an understanding of the rationale and issues related to developing the industrial technology education program.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ENGR 61095 SPECIAL TOPICS IN APPLIED ENGINEERING 1-4 Credit Hours**

(Repeatable for credit) Study of significant and current issues in various Applied Engineering topics not covered in regular courses. Offered when opportunities and resources permit; the topic is announced when the course is scheduled.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 1-4 lecture

**Grade Mode:** Standard Letter

**ENGR 61098 RESEARCH 1-15 Credit Hours**

(Repeatable for credit) Research or individual investigation for master's level graduate students. Credits earned may be applied toward meeting degree requirements if department approves.

**Prerequisite:** Graduate standing.

**Schedule Type:** Research

**Contact Hours:** 1-15 other

**Grade Mode:** Standard Letter

**ENGR 61099 CAPSTONE IN MECHANICAL ENGINEERING TECHNOLOGY 2-6 Credit Hours**

(Repeatable for credit) Students are required to complete either a comprehensive project at a workplace through employment or internship or a comprehensive research paper from an investigation. The goal is to demonstrate competence in the respective concentration under the Master of Engineering Technology degree. Possibilities include empirical research, case studies, theoretical or applied projects or projects identified for a specific client. Students are evaluated on the use of knowledge and skills gained from other courses taken in the program.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Project or Capstone

**Contact Hours:** 2-6 other

**Grade Mode:** Standard Letter



**ENGR 61199 THESIS I 2-6 Credit Hours**

Thesis option student must register for a total of 6 hours, 2 to 6 in a single semester or to be distributed over several semesters if desired.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Masters Thesis

**Contact Hours:** 2-6 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**ENGR 61299 THESIS II 2 Credit Hours**

Thesis students must continue registration each semester until all degree requirements are met.

**Prerequisite:** ENGR 61199; and graduate standing.

**Schedule Type:** Masters Thesis

**Contact Hours:** 2 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**ENGR 62396 INDIVIDUAL INVESTIGATION IN ELECTRONIC TECHNOLOGY 2 Credit Hours**

(Repeatable for credit) Individual investigation of a student-selected topic oriented toward the technical aspects of electronics.

**Prerequisite:** ENGR 53221; and graduate standing.

**Schedule Type:** Individual Investigation

**Contact Hours:** 2 other

**Grade Mode:** Standard Letter-IP

**ENGR 63010 COMPUTER HARDWARE 3 Credit Hours**

Introduction to the hardware, architecture and operation of the personal computer and associated devices. Topics include personal computer architecture and operation fundamentals, basic hardware, data buses and ports, hardware component packaging, auxiliary hardware components, and computer assembly, basic hardware installation, configuration and troubleshooting.

**Prerequisite:** Graduate standing.

**Schedule Type:** Laboratory, Lecture, Combined Lecture and Lab

**Contact Hours:** 2 lecture, 2 lab

**Grade Mode:** Standard Letter

**ENGR 63020 FIBER OPTIC SYSTEMS 3 Credit Hours**

Principles and characteristics of fiber optics, fiber optic system components and applications of fiber optics in electronic communication systems.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ENGR 63031 PROGRAMMABLE LOGIC CONTROLLERS 3 Credit Hours**

Programmable logic controllers (PLCS) covering hardware, ladder logic programming, networking and communications. Programming timers, counters and sequencers and an introduction to human machine interfaces (HMIS). An understanding of basic electricity and computer technology is required.

**Prerequisite:** Graduate standing.

**Schedule Type:** Laboratory, Lecture, Combined Lecture and Lab

**Contact Hours:** 2 lecture, 2 lab

**Grade Mode:** Standard Letter

**ENGR 63032 ADVANCED PROGRAMMABLE LOGIC CONTROLLERS 3 Credit Hours**

Advanced principles and applications of programmable logic controllers with a focus on using sequential function charts to control complex industrial processes. Includes real time control issues, PLC networking, programming languages other than ladder logic, standards, motion control, supervisory control and data acquisition, process control, alarm management, power failure strategies and safety.

**Prerequisite:** ENGR 63031; and graduate standing.

**Schedule Type:** Laboratory, Lecture, Combined Lecture and Lab

**Contact Hours:** 2 lecture, 2 lab

**Grade Mode:** Standard Letter

**ENGR 63040 ELECTRONIC COMMUNICATIONS 3 Credit Hours**

Study of electronic communications systems fundamentals, characteristics, design considerations and implementation. Topics include signal modulation and demodulation, multiplexing, noise, transmitters, receivers, signal propagation, digital communications, transmission lines, antennas and practical applications.

**Prerequisite:** Graduate standing.

**Schedule Type:** Laboratory, Lecture, Combined Lecture and Lab

**Contact Hours:** 2 lecture, 2 lab

**Grade Mode:** Standard Letter

**ENGR 63041 MOTORS AND CONTROLLERS 3 Credit Hours**

Theory and application of AC and DC motors, motor control, and machine operations in mechatronic systems. Includes introduction to basic control system terms and devices, input and output transducers, signal conditioning, open loop and closed loop control, stability and performance.

**Prerequisite:** Graduate standing.

**Schedule Type:** Laboratory, Lecture, Combined Lecture and Lab

**Contact Hours:** 2 lecture, 2 lab

**Grade Mode:** Standard Letter

**ENGR 63045 MECHATRONICS 3 Credit Hours**

Application of automation concepts in motion control, electrical circuits, fundamental mechanics, control systems and programming including modeling, interfacing and signal conditioning.

**Prerequisite:** ENGR 63032 and ENGR 63040; and graduate standing.

**Schedule Type:** Laboratory, Lecture, Combined Lecture and Lab

**Contact Hours:** 2 lecture, 2 lab

**Grade Mode:** Standard Letter

**ENGR 63046 ADVANCED MECHATRONICS 3 Credit Hours**

Advanced modeling, system response, closed loop control and system software for mechatronic systems.

**Prerequisite:** ENGR 63045; and graduate standing.

**Schedule Type:** Laboratory, Lecture, Combined Lecture and Lab

**Contact Hours:** 2 lecture, 2 lab

**Grade Mode:** Standard Letter

**ENGR 63050 TRIZ: THEORY OF INVENTIVE PROBLEM-SOLVING 3 Credit Hours**

TRIZ is a collection of powerful problem-solving tools for a broad range of inventive problems. The theory originated in Russia by the study of more than two million patents. Students utilize material learned in earlier courses to solve real world problems in multiple disciplines.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ENGR 63060 MANAGEMENT OF TECHNOLOGY INNOVATION 3 Credit Hours**

Subjects covered in this course include: case studies of innovative companies, elements of an innovation process, review of major problem solving methods, technical opportunity analysis, technical planning, technological forecasting, concept development and elements of patents. A project is included that utilizes TRIZ software and innovation model elements.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ENGR 63070 COMPUTER HARDWARE DESIGN AND INTEGRATION 3 Credit Hours**

In-depth study of personal computer (PC) and computer networking hardware. Topics include PC design, basic and auxiliary PC hardware components, PC assembly, PC upgrade and optimization, and PC repair, diagnosis and troubleshooting. Additional topics include computer networking hardware, network architecture, network communication protocols, and network installation, configuration and maintenance. Includes laboratory.

**Prerequisite:** Graduate standing.

**Schedule Type:** Laboratory, Lecture, Combined Lecture and Lab

**Contact Hours:** 2 lecture, 2 lab

**Grade Mode:** Standard Letter

**ENGR 63100 COMPUTER-AIDED DESIGN 3 Credit Hours**

Study of modern industrial practice using computers in advanced graphics, design and analysis including geometric dimensioning and tolerancing, parametric design, solid modeling and finite element analysis. Two hours lecture and two hours lab.

**Prerequisite:** Graduate standing.

**Schedule Type:** Laboratory, Lecture, Combined Lecture and Lab

**Contact Hours:** 1 lecture, 4 lab

**Grade Mode:** Standard Letter

**ENGR 63496 INDIVIDUAL INVESTIGATION IN ENERGY/POWER TECHNOLOGY 1-4 Credit Hours**

(Repeatable for credit) Individual investigation of selected topics associated with energy and power technology.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Individual Investigation

**Contact Hours:** 3-12 other

**Grade Mode:** Standard Letter-IP

**ENGR 63870 FACILITY DESIGN AND MATERIAL HANDLING 3 Credit Hours**

Intended to provide students with a fundamental understanding of how layout affects the flow through a system. Both qualitative and quantitative tools are presented for a complete approach to facility design and material handling.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ENGR 64010 CONNECTIVITY AND INTEROPERABILITY IN INDUSTRY 3 Credit Hours**

This course focuses on integrating and administering multiple systems in an industrial environment.

**Prerequisite:** Graduate standing.

**Schedule Type:** Laboratory, Lecture, Combined Lecture and Lab

**Contact Hours:** 2 lecture, 2 lab

**Grade Mode:** Standard Letter

**ENGR 64012 INFORMATION TECHNOLOGY AND AUTOMATION IN INDUSTRY 3 Credit Hours**

Course focuses on developing systems that analyze and automate industrial processes and provide decision support.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Laboratory, Lecture, Combined Lecture and Lab

**Contact Hours:** .5 lecture, 2.5 lab

**Grade Mode:** Standard Letter

**ENGR 64095 SPECIAL TOPICS IN COMPUTER ENGINEERING TECHNOLOGY 1-4 Credit Hours**

(Repeatable for credit) Study of significant and current issues in computer and network engineering technologies not covered in regular courses. Offered when opportunities and resources permit; the topic is announced when the course is scheduled.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 1-4 lecture

**Grade Mode:** Standard Letter

**ENGR 64312 ADVANCED WIRELESS TELECOMMUNICATION SYSTEM AND NETWORK TECHNOLOGIES 3 Credit Hours**

Describes technologies associated with wireless and telecommunications systems. Topics covered include public switch telephone network infrastructures, intelligent networks, wireless technologies in manufacturing enterprises, 3GPP standards, ITU standards.

**Prerequisite:** ENGR 56350; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ENGR 64396 INDIVIDUAL INVESTIGATION IN COMMUNICATION TECHNOLOGY 2 Credit Hours**

(Repeatable for credit) Independent research consisting of a problem statement followed by literature search and application of an industrial practice. Students must develop a proposal and present a written paper project to faculty and industrial representatives.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Individual Investigation

**Contact Hours:** 6 other

**Grade Mode:** Standard Letter-IP

**ENGR 65098 RESEARCH 1-6 Credit Hours**

(Repeatable for credit) Research or individual investigation. Credits are applied toward degree requirements with approval if grade of 'S' is given.

**Prerequisite:** Graduate standing.

**Schedule Type:** Research

**Contact Hours:** 1-6 other

**Grade Mode:** Satisfactory/Unsatisfactory

**ENGR 65199 THESIS I 2-6 Credit Hours**

Thesis student must register for a total of 6 hours, 2 to 6 hours in a single semester distributed over several semesters if desired.

**Prerequisite:** Graduate standing.

**Schedule Type:** Masters Thesis

**Contact Hours:** 2-6 other

**Grade Mode:** Satisfactory/Unsatisfactory

**ENGR 65299 THESIS II 2 Credit Hours**

Thesis students must continue registration each semester until all degree requirements are met.

**Prerequisite:** Graduate standing.

**Schedule Type:** Masters Thesis

**Contact Hours:** 2 other

**Grade Mode:** Satisfactory/Unsatisfactory

**ENGR 65330 ADVANCED VISUAL BASIC PROGRAMMING IN ENGINEERING TECHNOLOGY 3 Credit Hours**

Advanced concepts in Visual Basic programming for solving engineering problems. Topics covered include classes and objects; SQL server databases, Language Integrated Query, creating web apps, programming web forms and security.

**Prerequisite:** ENGR 56330; and graduate standing.

**Schedule Type:** Laboratory, Lecture, Combined Lecture and Lab

**Contact Hours:** 2 lecture, 2 lab

**Grade Mode:** Standard Letter

**ENGR 65500 QUALITY SYSTEMS AND INDUSTRIAL PRODUCTIVITY 3 Credit Hours**

Tools and techniques for increasing industrial productivity through total quality management. Productivity improvement techniques involving human, technology, material, product and processes, utilizing value engineering, analytical models and scientific management tools in high-technology environment.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ENGR 65550 DESIGN AND ANALYSIS OF EXPERIMENTS IN TECHNOLOGY 3 Credit Hours**

Introduces planning and conducting experiments, as well as analyzing the resulting data using statistical techniques to obtain valid and objective conclusions. Also focuses on experiments performed in areas such as product design, manufacturing process development and process improvement.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ENGR 65551 INTRODUCTION TO NANOTECHNOLOGY 3 Credit Hours**

Provides an in-depth overview of the fundamentals of nanoscience and nanotechnology. Includes a survey of developments within the breadth of the nanotechnology in various fields such as electronics, materials, energy and biomedical science.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ENGR 65700 APPLIED RELIABILITY ENGINEERING 3 Credit Hours**

Introduction to reliability engineering for engineering-technology management professionals. Course includes design for reliability, failure mode and failure effect analysis, reliability testing and measurement, statistical and mathematical modeling, assessment and forecasting.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ENGR 65800 BURN-IN AND STRESS-TESTING FOR RELIABILITY 3 Credit Hours**

Comprehensive course on reliability testing to analyze and establish reliability standards for components, products and systems. Specific emphasis on burn-in and stress testing procedures to perform effective reliability statistical calculations will be the major focus of the course.

**Prerequisite:** Graduate standing.

**Schedule Type:** Laboratory, Lecture, Combined Lecture and Lab

**Contact Hours:** 2 lecture, 2 lab

**Grade Mode:** Standard Letter

**ENGR 66350 ADVANCED NETWORK MANAGEMENT AND DESIGN TECHNOLOGY 3 Credit Hours**

Covers network management techniques including the TMN framework and the ISO Model for managing WAN communication networks.

Topics covered include network management technologies, TMN protocols, Common Management Information Protocol, ISO Model, management information base (MIB) architecture, network operations center and network design. Examples of current network management tools are reviewed. Upon completion of this course, students have a good understanding of network management framework and network management technologies for communication networks.

**Prerequisite:** ENGR 56350; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ENGR 66380 ADVANCED NETWORKING 3 Credit Hours**

Provides student with experience in advanced computer networking techniques, including network architectures, network security, network virtualization and storage area networks.

**Prerequisite:** ENGR 56350; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ENGR 66382 NETWORK SECURITY 3 Credit Hours**

Provides student with experience in fundamental and advanced computer networking techniques, including network architectures, LAN systems, network security, and network management and administration.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ENGR 66411 WIRELESS AND TELECOMMUNICATION SYSTEMS REQUIREMENTS ENGINEERING 3 Credit Hours**

Methods and techniques to develop requirements engineering specifications for wireless and telecommunication systems. Topics covered include Industry standards for telecom and wireless communications, reference data models, functional requirements specifications, performance analysis, the requirements review process and systems verification.

**Prerequisite:** ENGR 56411; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ENGR 66596 INDIVIDUAL INVESTIGATION IN MATERIALS TECHNOLOGY 2 Credit Hours**

(Repeatable for credit) Research directed toward the study and application of metallic and nonmetallic materials.

**Prerequisite:** Graduate standing.

**Schedule Type:** Individual Investigation

**Contact Hours:** 6 other

**Grade Mode:** Standard Letter-IP

**ENGR 66796 INDIVIDUAL INVESTIGATION IN INDUSTRIAL PROCESSES 2 Credit Hours**

(Repeatable for credit) Individual investigation of a student-selected topic oriented towards industrial/manufacturing processes.

**Prerequisite:** Graduate standing.

**Schedule Type:** Individual Investigation

**Contact Hours:** 6 other

**Grade Mode:** Standard Letter-IP

**ENGR 67000 SUSTAINABLE SYSTEMS AND TECHNOLOGY 3 Credit Hours**

Introduction to the fundamental concepts and principles of sustainability, sustainable technologies and sustainable systems. Provides students with an understanding of the basic principles and key issues of environmental, social and economic sustainability. Closely examines sustainability as it applies to the relationships among human beings, technology and the environment, with a special emphasis on sustainability in the context of meeting humanity's current needs. Also stresses the ethics and importance of sustainability and the use of sustainable systems.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ENGR 67010 ETHICS, TECHNOLOGY AND THE ENVIRONMENT 3 Credit Hours**

Explores the fundamental issues of the interconnections between human beings and the environment, with an emphasis on the ethics and the importance of the sustainability. Takes an in-depth look at basic environmental concepts, ethics and values, as they relate to a wide range of practical subject matters, including technology, from global and national perspectives. Provides an in-depth look at sustainable systems and the ethical issues associated with sustainability as it relates to technology by focusing on common and future impacts as they apply to ethics, values and justice.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ENGR 67220 LIFE CYCLE DESIGN I 3 Credit Hours**

An in-depth investigation of Life Cycle Design of sustainable systems. Explores the cradle to cradle path of products with an emphasis on system Life Cycle stages and processes from a sustainability perspective. Examines how environmentally conscious system design can be accomplished by considering the environmental impact of technology and engineering as the part of the sustainable design process. Includes the study of sustainable development with respect to Green Technologies, hazardous materials and processes and reducing the environmental impact of product development and utilization. Also includes an introduction to Life Cycle Assessment and various Environmental and Life Cycle standards.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter-IP

**ENGR 67221 LIFE CYCLE DESIGN II 3 Credit Hours**

An in-depth study of environmental performance, environmentally conscious design and sustainable development. Focuses on Life Cycle Analysis and Assessment as a means to determine the potential economic, environmental, and ecological impact of products, processes, and activities across their entire life cycle. Takes a close look at the beneficial and detrimental effects of various technologies, materials, products and processes with special attention to the reduction of harmful effects to human beings, the ecosystem, and the environment. Covers the analysis and assessment of energy consumption, natural resource depletion, and environmental degradation, and ways to minimize detrimental effects on the environment. Includes the use of various life cycle engineering and assessment processes, models and analytical tools to identify, evaluate, and compare the environmental consequences associated with various products/activities, across a wide range of impact categories, to assist in design and decision making.

**Prerequisite:** ENGR 67220; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter-IP

**ENGR 68196 INDIVIDUAL INVESTIGATION IN ENGINEERING GRAPHICS 2 Credit Hours**

(Repeatable for credit) Investigation of selected topics within engineering graphics, including computer-aided design.

**Prerequisite:** Graduate standing.

**Schedule Type:** Individual Investigation

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter-IP

**ENGR 68796 IND INV-IND TECH SYS DSGN 2 Credit Hours**

(Repeatable for credit) The study of two-and three dimensional design as related to manufacturing construction communication and energy power including patents creativity and problem solving approaches.

**Prerequisite:** Graduate standing.

**Schedule Type:** Individual Investigation

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter-IP



**ENGR 72111 STRENGTH OF MATERIALS FOR ENGINEERS 3 Credit Hours**

(Slashed with ENGR 42111 and ENGR 52111) The mathematical study of how materials respond to external forces. Stress, strain, torsion; deformation of thin-walled pressure vessels, beams, and columns; and an introduction to energy methods.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ENGR 72363 MATERIALS SELECTION IN DESIGN AND APPLICATIONS 3 Credit Hours**

(Slashed with ENGR 42363 and ENGR 52363) Description and analysis of procedures for selecting appropriate materials for a particular mechanical design. The affect of processing on material properties, introduction to materials science for users of materials. Extensive case studies of materials selection and materials and sustainability.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ENGR 75901 INTRODUCTION TO FINITE ELEMENT METHOD AND APPLICATIONS 3 Credit Hours**

(Slashed with ENGR 45901 and ENGR 55901) The objective of this course is to teach in a unified manner the fundamentals of the finite element method for the analysis of engineering problems arising in solids and structures. The course will emphasize the solution of real-life problems using the finite element method and students will get exposure to commercial finite element software (ANSYS or ABAQUS) and will learn to critically evaluate finite element models. Examples will be provided for solid, fluid, and heat transfer applications. Finally, developing an understanding of the computational aspects of the finite-element method and its application in realistic aerospace applications are the core goals of this course.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Laboratory, Lecture, Combined Lecture and Lab

**Contact Hours:** 2 lecture, 2 lab

**Grade Mode:** Standard Letter

**ENGR 78001 ORBITAL MECHANICS 3 Credit Hours**

(Slashed with ENGR 48001 and ENGR 58001) The course is an introduction to orbital and trajectory design. Topics include Newton's law of gravity; two-body motion, relative equations of motion; conic sections; orbits in three dimensions; orbital maneuvers; and interplanetary transfers.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ENGR 78002 SPACECRAFT ATTITUDE DYNAMICS, DETERMINATION AND CONTROL 3 Credit Hours**

(Slashed with ENGR 48002 and ENGR 58002) Spacecraft rigid body equations of motion in terms of direction cosines, angles, and quaternions. Determination of the attitude stability with external torques and coupling with orbital motion. Overview of state-of-the-art hardware and technology for attitude control, including gas jet, electric thrusters, momentum wheels and magnetic torques; attitude sensing hardware: sun sensors, magnetometers, GPS, IMUs, star tracker. Attitude determination technique; attitude stabilization and control.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ENGR 78003 SPACECRAFT DESIGN 3 Credit Hours**

(Slashed with ENGR 58003) Spacecraft mission design course with a focus on hands-on design experience. The first portion of the course is lecture-based, topics include launch systems, space environment, spacecraft orbits, and ground tracks, spacecraft design and sizing, budget designs, subsystem design and evaluation, cost and risk. The second portion is dedicated to student teamwork on the spacecraft design.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture, Project or Capstone

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ENGR 78004 OPTIMAL CONTROL THEORY 3 Credit Hours**

(Slashed with ENGR 48004 and ENGR 58004) The course introduces students to the theory and numerical calculation of optimal space trajectories and related optimization problems in aerospace engineering. This course provides the essential technical components of space trajectory design and space trajectory optimization. Students develop basic engineering skills in formulating and solving open-ended problems and in writing a project report.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ENGR 78005 LINEAR SYSTEM ANALYSIS AND CONTROL 3 Credit Hours**

(Slashed with ENGR 58005) This course covers the analysis and synthesis of linear dynamical systems. Fundamental concepts including canonical representations, the state transition matrix, and the properties of controllability and observability will be discussed. The existence and synthesis of stabilizing feedback control laws using pole placement and linear-quadratic optimal control will be discussed.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ENGR 78006 NONLINEAR SYSTEMS AND CONTROL 3 Credit Hours**

(Slashed with ENGR 58006) Overview of stability concepts and examination of various methods for assessing stability such as linearization and Lyapunov methods. Introduction to various design methods based on linearization, sliding modes, adaptive control, and feedback linearization.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter



**ENGR 78007 DIGITAL CONTROL SYSTEMS 3 Credit Hours**

(Slashed with ENGR 58007) This course covers design and analysis of sampled-data and digital control systems. Fundamental concepts include introduction to digital control and discrete transform (z-transform), discrete and hybrid signal flow graphs (SFGs), solution of discrete-time state space models, time-response and characteristic equations, stability analysis for discrete time systems, root locus, Bode plot, and Nyquist method for sampled data systems, pole placement, and state estimation for discrete time systems.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ENGR 78100 INTELLIGENT SENSING AND PLANNING OF UNMANNED AERIAL SYSTEMS 3 Credit Hours**

(Slashed with ENGR 58100) This course will focus on real-world environment understanding for the UAV systems. This course introduces students the state-of-the-art artificial intelligence methods for planning UAV missions in real-world.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ENGR 78200 AUTONOMOUS UNMANNED AERIAL SYSTEMS 3 Credit Hours**

(Slashed with ENGR 58200) This course provides an advanced-level understanding of unmanned aerial vehicles in physical system design, payload, and stealth design, navigation and deployment regulations. This course introduces students the state-of-the-art artificial intelligence methods for UAS deployments in different urban, forest, and water surface scenarios.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ENGR 81091 AEROSPACE SEMINAR 1 Credit Hour**

(Repeatable for credit) Discussions of selected technical topics related to aerospace engineering.

**Prerequisite:** Graduate standing.

**Schedule Type:** Seminar

**Contact Hours:** 1 other

**Grade Mode:** Standard Letter

**ENGR 85098 RESEARCH 1-6 Credit Hours**

(Repeatable for credit) Research or individual investigation. Credits are applied toward degree requirements with approval if grade of 'S' is given.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Research

**Contact Hours:** 1-6 other

**Grade Mode:** Satisfactory/Unsatisfactory

**ENGR 85199 DISSERTATION I 15 Credit Hours**

(Repeatable for credit) Doctoral dissertation, for which registration in at least two semesters is required, first of which will be semester in which dissertation work is begun and continuing until the completion of 30 hours.

**Schedule Type:** Dissertation

**Contact Hours:** 15 other

**Grade Mode:** Satisfactory/Unsatisfactory

**ENGR 85299 DISSERTATION II 15 Credit Hours**

(Repeatable for credit) Continuing registration required for doctoral students who have completed the initial 30 hours of dissertation and continuing until all degree requirements are met.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Dissertation

**Contact Hours:** 15 other

**Grade Mode:** Satisfactory/Unsatisfactory

## Aeronautical Systems Engineering Technology - B.S.

### College of Aeronautics and Engineering

Aeronautics and Technology Building

Kent Campus

330-672-2892

cae@kent.edu

www.kent.edu/cae

## Description

The Bachelor of Science degree in Aeronautical Systems Engineering Technology prepares graduates to enter careers in the design, installation, manufacturing, testing, evaluation, technical sales and maintenance of aeronautical/aerospace systems. Students gain technical expertise in engineering materials, statics, strength of materials, applied aerodynamics, applied propulsion and electronics. Graduates will have strengths in the analysis, applied design, development, implementation and oversight of more advanced aeronautical/aerospace systems and processes.

## Fully Offered At:

- Kent Campus

## Accreditation

The B.S. degree in Aeronautical Systems Engineering Technology is accredited by the Engineering Technology Accreditation Commission of ABET, <http://www.abet.org>.

## Admission Requirements

The university affirmatively strives to provide educational opportunities and access to students with varied backgrounds, those with special talents and adult students who graduated from high school three or more years ago.

**Freshman Students on the Kent Campus:** The freshman admission policy on the Kent Campus is selective. Admission decisions are based upon the following: cumulative grade point average, ACT and/or SAT scores, strength of high school college preparatory curriculum and grade trends. The Admissions Office at the Kent Campus may defer the admission of students who do not meet admissions criteria but who demonstrate areas of promise for successful college study. Deferred applicants may begin their college coursework at one of seven regional campuses of Kent State University. For more information on admissions, including additional requirements for some academic programs, visit the admissions website for new freshmen.

**Freshman Students on the Regional Campuses:** Kent State campuses at Ashtabula, East Liverpool, Geauga, Salem, Stark, Trumbull and

Tuscarawas, as well as the Regional Academic Center in Twinsburg, have open enrollment admission for students who hold a high school diploma, GED or equivalent.

#### English Language Proficiency Requirements for International Students:

All international students must provide proof of English language proficiency (unless they meet specific exceptions) by earning a minimum 525 TOEFL score (71 on the Internet-based version), minimum 75 MELAB score, minimum 6.0 IELTS score or minimum 48 PTE score, or by completing the ESL level 112 Intensive Program. For more information on international admission, visit the Office of Global Education's admission website.

**Transfer, Transitioning and Former Students:** For more information about admission criteria for transfer, transitioning and former students, please visit the admissions website.

Transfer students must have a minimum 2.250 overall GPA in all college-level coursework for admission to the Aeronautical Systems Engineering Technology major.

## Program Learning Outcomes

Graduates of this program will be able to:

1. Select and apply the knowledge, techniques, skills and modern tools of the discipline to broadly-defined engineering technology activities.
2. Select and apply a knowledge of mathematics, science, engineering and technology to engineering technology problems that require the application of principles and applied procedures or methodologies.
3. Conduct standard tests and measurements; conduct, analyze and interpret experiments; and apply experimental results to improve processes.
4. Design systems, components or processes for broadly defined engineering technology problems appropriate to program educational objectives.
5. Function effectively as a member or leader on a technical team.
6. Identify, analyze and solve broadly defined engineering technology problems.
7. Apply written, oral and graphical communication in both technical and non-technical environments; identify and use appropriate technical literature.
8. Understand the need for and engage in self-directed continuing professional development.
9. Recognize and commit to professional and ethical responsibilities, including respect for diversity.
10. Understand the impact of engineering technology solutions in a societal and global context.
11. Commit to quality, timeliness and continuous improvement.

## University Requirements

All students in a bachelor's degree program at Kent State University must complete the following university requirements for graduation.

**NOTE:** University requirements may be fulfilled in this program by specific course requirements. Please see Program Requirements for details.

Destination Kent State: First Year Experience

1

Course is not required for students with 25 transfer credits, excluding College Credit Plus, or age 21+ at time of admission.

Diversity Domestic/Global (DIVD/DIVG)	2 courses
Students must successfully complete one domestic and one global course, of which one must be from the Kent Core.	
Experiential Learning Requirement (ELR)	varies
Students must successfully complete one course or approved experience.	
Kent Core (see table below)	36-37
Writing-Intensive Course (WIC)	1 course
Students must earn a minimum C grade in the course.	
Upper-Division Requirement	39 (or 42)
Students must successfully complete 39 upper-division (numbered 30000 to 49999) credit hours to graduate. Students in a B.A. and/or B.S. degree in the College of Arts and Sciences must complete 42 upper-division credit hours.	
Total Credit Hour Requirement	120
Some bachelor's degrees require students to complete more than 120 credit hours.	

## Kent Core Requirements

Kent Core Composition (KCMP)	6
Kent Core Mathematics and Critical Reasoning (KMCR)	3
Kent Core Humanities and Fine Arts (KHUM/KFA) (min one course each)	9
Kent Core Social Sciences (KSS) (must be from two disciplines)	6
Kent Core Basic Sciences (KBS/KLAB) (must include one laboratory)	6-7
Kent Core Additional (KADL)	6
<b>Total Credit Hours:</b>	<b>36-37</b>

## Program Requirements

### Major Requirements

Code	Title	Credit Hours
<b>Major Requirements (courses count in major GPA)</b>		
ENGR 15300	INTRODUCTION TO ENGINEERING ANALYSIS USING MATLAB®	2
ENGR 15301	INTRODUCTION TO ENGINEERING ANALYSIS USING MATLAB® LAB	1
ENGR 15500	INTRODUCTION TO AEROSPACE ENGINEERING	3
ENGR 20000	PROFESSIONAL DEVELOPMENT IN ENGINEERING	1
AERN 25200	STATICS	3
AERN 30000	PROFESSIONAL DEVELOPMENT IN AERONAUTICS	1
AERN 35040	AIRCRAFT SYSTEMS I	3
AERN 35150	AIRCRAFT STRUCTURES	3
AERN 45030	AIRCRAFT SYSTEMS II	3
ENGR 45121	AEROSPACE PROPULSION FOR ENGINEERING AND ENGINEERING TECHNOLOGY	3
AERN 45150	APPLIED FLIGHT DYNAMICS I	3
ENGR 45151	APPLIED FLIGHT DYNAMICS II	3
AERN 45360	PROFESSIONAL DEVELOPMENT IN AERONAUTICS III	1
ENGR 45700	AIRCRAFT DESIGN (ELR)	3
ENGR 45850	AIRCRAFT DESIGN II (WIC)	3
ENGR 13585	COMPUTER AIDED ENGINEERING GRAPHICS	3
ENGR 20002	MATERIALS AND PROCESSES	3
ENGR 21020	SURVEY OF ELECTRICITY AND ELECTRONICS	3

ENGR 21022	SURVEY OF ELECTRICITY AND ELECTRONICS LABORATORY	1
ENGR 33031	PROGRAMMABLE LOGIC CONTROLLERS	3
ENGR 33040	CONTROL SYSTEMS	3
ENGR 33111	STATICS AND STRENGTH OF MATERIALS	3
ENGR 43030	MECHATRONICS	3
ENGR 47200	SYSTEMS ENGINEERING	3
Aeronautics (AERN) Electives		8
<b>Additional Requirements (courses do not count in major GPA)</b>		
COMM 15000	INTRODUCTION TO HUMAN COMMUNICATION (KADL)	3
ECON 22060	PRINCIPLES OF MICROECONOMICS (KSS)	3
MATH 12002	ANALYTIC GEOMETRY AND CALCULUS I (KMCR)	5
MATH 12003	ANALYTIC GEOMETRY AND CALCULUS II (min C grade)	5
MATH 22005	ANALYTIC GEOMETRY AND CALCULUS III (min C grade)	4
PHY 23101	GENERAL UNIVERSITY PHYSICS I (KBS) (KLAB)	5
PHY 23102	GENERAL UNIVERSITY PHYSICS II (KBS) (KLAB)	5
UC 10097	DESTINATION KENT STATE: FIRST YEAR EXPERIENCE	1
Kent Core Composition		6
Kent Core Humanities and Fine Arts (minimum one course from each)		9
Kent Core Social Sciences (cannot be ECON)		3
Kent Core Additional		3
Minimum Total Credit Hours:		121

<sup>1</sup> A minimum C grade must be earned to fulfill the writing-intensive requirement.

## Graduation Requirements

Minimum Major GPA	Minimum Overall GPA
2.500	2.500

- A minimum C grade may be required in some courses.

## Roadmap

This roadmap is a recommended semester-by-semester plan of study for this major. However, courses designated as critical (!) must be completed in the semester listed to ensure a timely graduation.

Semester One		Credits
COMM 15000	INTRODUCTION TO HUMAN COMMUNICATION (KADL)	3
ENGR 15300	INTRODUCTION TO ENGINEERING ANALYSIS USING MATLAB®	2
ENGR 15301	INTRODUCTION TO ENGINEERING ANALYSIS USING MATLAB® LAB	1
ENGR 13585	COMPUTER AIDED ENGINEERING GRAPHICS	3
UC 10097	DESTINATION KENT STATE: FIRST YEAR EXPERIENCE	1
Kent Core Requirement		3
Kent Core Requirement		3
Credit Hours		16
Semester Two		Credits
ENGR 15500	INTRODUCTION TO AEROSPACE ENGINEERING	3
ENGR 20002	MATERIALS AND PROCESSES	3
MATH 12002	ANALYTIC GEOMETRY AND CALCULUS I (KMCR)	5
PHY 23101	GENERAL UNIVERSITY PHYSICS I (KBS) (KLAB)	5
Credit Hours		16
Semester Three		Credits
ENGR 20000	PROFESSIONAL DEVELOPMENT IN ENGINEERING	1
AERN 25200	STATICS	3
MATH 12003	ANALYTIC GEOMETRY AND CALCULUS II	5
PHY 23102	GENERAL UNIVERSITY PHYSICS II (KBS) (KLAB)	5
Kent Core Requirement		3
Credit Hours		17
Semester Four		Credits
AERN 35040	AIRCRAFT SYSTEMS I	3
ECON 22060	PRINCIPLES OF MICROECONOMICS (KSS)	3
ENGR 21020	SURVEY OF ELECTRICITY AND ELECTRONICS	3
ENGR 21022	SURVEY OF ELECTRICITY AND ELECTRONICS LABORATORY	1
MATH 22005	ANALYTIC GEOMETRY AND CALCULUS III	4
Credit Hours		14
Semester Five		Credits
AERN 45030	AIRCRAFT SYSTEMS II	3
AERN 45150	APPLIED FLIGHT DYNAMICS I	3
ENGR 33031	PROGRAMMABLE LOGIC CONTROLLERS	3
ENGR 33111	STATICS AND STRENGTH OF MATERIALS	3
Kent Core Requirement		3
Credit Hours		15
Semester Six		Credits
AERN 30000	PROFESSIONAL DEVELOPMENT IN AERONAUTICS	1
AERN 35150	AIRCRAFT STRUCTURES	3
ENGR 33040	CONTROL SYSTEMS	3
ENGR 45121	AEROSPACE PROPULSION FOR ENGINEERING AND ENGINEERING TECHNOLOGY	3
Aeronautics (AERN) Electives		3
Kent Core Requirement		3
Credit Hours		16

### Semester Seven

AERN 45360	PROFESSIONAL DEVELOPMENT IN AERONAUTICS III	1
ENGR 45151	APPLIED FLIGHT DYNAMICS II	3
ENGR 45700	AIRCRAFT DESIGN (ELR)	3
ENGR 43030	MECHATRONICS	3
Kent Core Requirement		3
Credit Hours		13

### Semester Eight

ENGR 45850	AIRCRAFT DESIGN II (WIC)	3
ENGR 47200	SYSTEMS ENGINEERING	3
Aeronautics (AERN) Electives		5
Kent Core Requirement		3
Credit Hours		14
Minimum Total Credit Hours:		121

## Aeronautics - B.S.

### College of Aeronautics and Engineering

Aeronautics and Technology Building

Kent Campus

330-672-2892

cae@kent.edu

www.kent.edu/cae

## Description

The Bachelor of Science degree in Aeronautics provides an education in aviation that produces professionals to operate the National Airspace System in the 21st century.

The Aeronautics major comprises the following concentrations:

- The **Aeronautical Studies** concentration prepares students for entry-level technological positions in aviation and related areas. Although focused on a broad foundation of aeronautically related subjects, the program also provides a significant number of electives that allow students to explore other areas of interest or earn a minor in a particular area of study. It is well suited for those entering the program with previous flight experience or transfer credits from an accredited university.
- The **Air Traffic Control** concentration prepares students for professional work in air traffic control and management. Originally, as part of the Federal Aviation Administration's Air Traffic-Collegiate Training Initiative (CTI), the concentration provides practical simulation-based training in air traffic control that enables the CTI graduates to work as air traffic controllers and managers in the National Airspace System.
- The **Aviation Management** concentration prepares students for entry-level management supervisory and administrative positions in aviation and other aviation-related professional fields. This course of study combines technical and aeronautical courses with courses in management and information systems. Students entering this program should have a technical interest, mathematical proficiency and an ability to develop analytical and communicative capabilities.
- The **Professional Pilot** concentration is designed for students who aspire to become professional pilots. This concentration stresses subjects associated with flight systems, propulsion, structures and electronics. Students entering this program should have a strong

desire for excellence in aviation as well as the flying skills required of a professional pilot.

- The **Unmanned Aircraft Systems** concentration is for students who aspire to become professional Unmanned Aircraft Pilots. This concentration is focused on the safe operations of unmanned aircraft systems, regulations, the technology of autonomous systems and policy regarding the operations of unmanned aerial elements.

### Fully Offered At:

- Kent Campus

## Accreditation

The B.S. degree in Aeronautics is accredited by the Aviation Accreditation Board International, Federal Aviation Administration.

## Admission Requirements

The university affirmatively strives to provide educational opportunities and access to students with varied backgrounds, those with special talents and adult students who graduated from high school three or more years ago.

**Freshman Students on the Kent Campus:** The freshman admission policy on the Kent Campus is selective. Admission decisions are based upon the following: cumulative grade point average, ACT and/or SAT scores, strength of high school college preparatory curriculum and grade trends. The Admissions Office at the Kent Campus may defer the admission of students who do not meet admissions criteria but who demonstrate areas of promise for successful college study. Deferred applicants may begin their college coursework at one of seven regional campuses of Kent State University. For more information on admissions, including additional requirements for some academic programs, visit the admissions website for new freshmen.

**Freshman Students on the Regional Campuses:** Kent State campuses at Ashtabula, East Liverpool, Geauga, Salem, Stark, Trumbull and Tuscarawas, as well as the Regional Academic Center in Twinsburg, have open enrollment admission for students who hold a high school diploma, GED or equivalent.

**English Language Proficiency Requirements for International Students:** All international students must provide proof of English language proficiency (unless they meet specific exceptions) by earning a minimum 525 TOEFL score (71 on the Internet-based version), minimum 75 MELAB score, minimum 6.0 IELTS score or minimum 48 PTE score, or by completing the ESL level 112 Intensive Program. For more information on international admission, visit the Office of Global Education's admission website.

**Transfer, Transitioning and Former Students:** For more information about admission criteria for transfer, transitioning and former students, please visit the admissions website.

Transfer students must have a minimum 2.250 overall GPA in all college-level coursework for admission to the Aeronautics major.

**Flight Training Courses:** Transfer students and students admitted to the Aeronautics major with credits completed through College Credit Plus or other means may be allowed to enroll in flight training courses only with special permission from the academic program director.

## Program Learning Outcomes

Graduates of this program will be able to:

1. Apply knowledge of math, science and the applied sciences to aviation-related disciplines.
2. Analyze and interpret data.
3. Understand and master the fundamental concepts and skills of airplane flight.
4. Communicate effectively through written and oral means.
5. Recognize the need and develop the cognitive abilities to engage in life-long learning by successfully contending with changing technologies, regulatory policies and procedures, market forces and the highly dynamic operational environment of commercial flight and professional aviation.
6. Understand contemporary issues that affect aviation.
7. Use the techniques, skills and modern technology necessary for professional practice.
8. Understand the national and international aviation environment.
9. Apply pertinent knowledge in identifying and solving problems.
10. Know and understand the technical details involved in the effective management of employees and operational systems in professional aviation.

## University Requirements

All students in a bachelor's degree program at Kent State University must complete the following university requirements for graduation.

**NOTE:** University requirements may be fulfilled in this program by specific course requirements. Please see Program Requirements for details.

Destination Kent State: First Year Experience	1
Course is not required for students with 25 transfer credits, excluding College Credit Plus, or age 21+ at time of admission.	
Diversity Domestic/Global (DIVD/DIVG)	2 courses
Students must successfully complete one domestic and one global course, of which one must be from the Kent Core.	
Experiential Learning Requirement (ELR)	varies
Students must successfully complete one course or approved experience.	
Kent Core (see table below)	36-37
Writing-Intensive Course (WIC)	1 course
Students must earn a minimum C grade in the course.	
Upper-Division Requirement	39 (or 42)
Students must successfully complete 39 upper-division (numbered 30000 to 49999) credit hours to graduate. Students in a B.A. and/or B.S. degree in the College of Arts and Sciences must complete 42 upper-division credit hours.	
Total Credit Hour Requirement	120
Some bachelor's degrees require students to complete more than 120 credit hours.	

## Kent Core Requirements

Kent Core Composition (KCOMP)	6
Kent Core Mathematics and Critical Reasoning (KMCR)	3
Kent Core Humanities and Fine Arts (KHUM/KFA) (min one course each)	9
Kent Core Social Sciences (KSS) (must be from two disciplines)	6



Kent Core Basic Sciences (KBS/KLAB) (must include one laboratory)	6-7
Kent Core Additional (KADL)	6
<b>Total Credit Hours:</b>	<b>36-37</b>

## Program Requirements

### Major Requirements

Code	Title	Credit Hours
<b>Major Requirements (courses count in major GPA)</b>		
AERN 15000	INTRODUCTION TO AERONAUTICS	3
AERN 25100	INTRODUCTION TO AVIATION MANAGEMENT	3
AERN 25250	ELEMENTS OF AVIATION WEATHER	3
AERN 25350	FUNDAMENTALS OF AIR TRAFFIC CONTROL	2
AERN 25351	FUNDAMENTALS OF AIR TRAFFIC CONTROL LABORATORY	1
AERN 30000	PROFESSIONAL DEVELOPMENT IN AERONAUTICS	1
AERN 45130	PHYSIOLOGY AND HUMAN FACTORS OF FLIGHT	3
AERN 45135	AVIATION SAFETY THEORY	3
AERN 45150	APPLIED FLIGHT DYNAMICS I	3
AERN 45250	AVIATION LAW	3
AERN 45791	AVIATION SECURITY AND POLICY SEMINAR (WIC) <sup>1</sup>	3

<b>Additional Requirements (courses do not count in major GPA)</b>		
COMM 15000	INTRODUCTION TO HUMAN COMMUNICATION (KADL)	3
MATH 11010	ALGEBRA FOR CALCULUS (KMCR)	3
MATH 11022	TRIGONOMETRY (KMCR)	3
PHY 13001	GENERAL COLLEGE PHYSICS I (KBS)	4
PHY 13021	GENERAL COLLEGE PHYSICS LABORATORY I (KBS) (KLAB)	1
UC 10097	DESTINATION KENT STATE: FIRST YEAR EXPERIENCE	1

<b>Concentrations</b>		
Choose from the following:		59
Aeronautical Studies		
Air Traffic Control		
Aviation Management		
Professional Flight		
Unmanned Aircraft Systems Flight Operations		

Kent Core Composition	6
Kent Core Humanities and Fine Arts (minimum one course from each)	9
Kent Core Social Sciences (must be from two disciplines)	3

Minimum Total Credit Hours:	120
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<sup>1</sup> A minimum C grade must be earned to fulfill the writing-intensive requirement.

<sup>2</sup> Students who successfully completed PHY 13002 will have met the requirement for PHY 13012.

### Aeronautical Studies Concentration Requirements

Code	Title	Credit Hours
<b>Concentration Requirements (courses count in major GPA)</b>		
AERN 15745	NON-PILOT ELEMENTS OF FLIGHT THEORY	3
AERN 35020	AIRCRAFT PROPULSION SYSTEMS	3

AERN 35040	AIRCRAFT SYSTEMS I	3
AERN 35150	AIRCRAFT STRUCTURES	3
AERN 35341	AIR TRANSPORTATION SYSTEMS	3
AERN 45030	AIRCRAFT SYSTEMS II	3
CAE 45092	AERONAUTICS AND ENGINEERING INTERNSHIP/COOPERATIVE EDUCATION (ELR) (min C grade for either course)	3
or AERN 45099	AERONAUTICAL STUDIES CAPSTONE (ELR)	
ENGR 20002	MATERIALS AND PROCESSES	3
Aeronautics (AERN) Upper-Division Electives (30000 or 40000 level)		3

<b>Additional Requirements (courses do not count in major GPA)</b>		
PHY 13012	COLLEGE PHYSICS II (KBS)	2
Kent Core Social Sciences (must be from two disciplines)		3
General Electives (total credit hours depends on earning 120 credit hours, including 39 upper-division credit hours)		27
Minimum Total Credit Hours:		59

<sup>1</sup> A minimum C grade must be earned to fulfill the writing-intensive requirement.

### Air Traffic Control Concentration Requirements

Code	Title	Credit Hours
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<b>Concentration Requirements (courses count in major GPA)</b>		
AERN 15250	FAA ORIENTATION	3
AERN 15745	NON-PILOT ELEMENTS OF FLIGHT THEORY	3
AERN 25252	THUNDERSTORMS AND SEVERE WEATHER	3
AERN 35040	AIRCRAFT SYSTEMS I	3
AERN 35342	TERMINAL OPERATIONS I	2
AERN 35343	EN ROUTE I	3
AERN 35345	TERMINAL OPERATIONS I LABORATORY	1
AERN 35650	NON-PILOT INSTRUMENT FLIGHT THEORY	3
AERN 45030	AIRCRAFT SYSTEMS II	3
AERN 45320	TERMINAL OPERATIONS II	2
AERN 45321	TERMINAL OPERATIONS II LABORATORY	1
AERN 45343	EN ROUTE II	2
AERN 45344	EN ROUTE II LABORATORY	1
AERN 45399	AIR TRAFFIC CONTROL CAPSTONE (ELR)	1
AERN 45499	AIR TRAFFIC CONTROL CAPSTONE LABORATORY (ELR)	2
MGMT 24163	PRINCIPLES OF MANAGEMENT	3
Aeronautics (AERN) Electives		3

<b>Additional Requirements (courses do not count in major GPA)</b>		
PHY 13012	COLLEGE PHYSICS II (KBS)	2
PHY 13022	GENERAL COLLEGE PHYSICS LABORATORY II (KBS) (KLAB)	1
Kent Core Social Sciences (must be from two disciplines)		3
General Electives (total credit hours depends on earning 120 credit hours, including 39 upper-division credit hours)		14
Minimum Total Credit Hours:		59

### Aviation Management Concentration Requirements

Code	Title	Credit Hours
<b>Concentration Requirements (courses count in major GPA)</b>		
ACCT 23020	INTRODUCTION TO FINANCIAL ACCOUNTING	3
AERN 15745	NON-PILOT ELEMENTS OF FLIGHT THEORY	3

AERN 35031	AIR TRANSPORTATION INDUSTRY REGULATIONS	3
AERN 35339	FIXED BASE OPERATOR OPERATIONS	3
AERN 35340	AIRPORT MANAGEMENT	3
AERN 35341	AIR TRANSPORTATION SYSTEMS	3
AERN 45040	LABOR RELATIONS IN THE AVIATION INDUSTRY	3
AERN 45100	AIRPORT OPERATIONS	3
AERN 45200	STRATEGIC AVIATION MANAGEMENT (ELR) (min C grade)	3
COMM 20001	INTERPERSONAL COMMUNICATION	3
ENGR 13585	COMPUTER AIDED ENGINEERING GRAPHICS	3
FIN 36053	BUSINESS FINANCE	3
HRM 34180	HUMAN RESOURCE MANAGEMENT	3
MGMT 24163	PRINCIPLES OF MANAGEMENT	3
MKTG 25010	PRINCIPLES OF MARKETING	3
<b>Additional Requirements (courses do not count in major GPA)</b>		
ECON 22060	PRINCIPLES OF MICROECONOMICS (KSS)	3
ECON 22061	PRINCIPLES OF MACROECONOMICS (KSS)	3
Kent Core Basic Science		3
General Electives (total credit hours depends on earning 120 credit hours, including 39 upper-division credit hours)		5
Minimum Total Credit Hours:		59

## Professional Pilot Concentration Requirements

Code	Title	Credit Hours
<b>Concentration Requirements (courses count in major GPA)</b>		
AERN 15740	ELEMENTS OF FLIGHT THEORY	5
AERN 15741	PRIVATE PILOT FLIGHT	5
AERN 25743	COMMERCIAL PILOT FLIGHT I	2
AERN 35150	AIRCRAFT STRUCTURES	3
or AERN 45730	APPLIED TRANSPORT CATEGORY AIRCRAFT SYSTEMS	
or AERN 45740	FLIGHT MANAGEMENT SYSTEMS	
AERN 35020	AIRCRAFT PROPULSION SYSTEMS	3
AERN 35040	AIRCRAFT SYSTEMS I	3
AERN 35644	INSTRUMENT FLIGHT THEORY	3
AERN 35645	INSTRUMENT PILOT FLIGHT	2
AERN 35647	COMMERCIAL PILOT FLIGHT II	2
AERN 35746	COMMERCIAL PILOT THEORY	2
AERN 35747	COMMERCIAL PILOT FLIGHT III	2
AERN 45030	AIRCRAFT SYSTEMS II	3
AERN 45648	THEORY OF FLIGHT INSTRUCTION (ELR) (min C grade)	3
AERN 45649	FLIGHT INSTRUCTOR/AIRPLANES	2
AERN 45651	FLIGHT INSTRUCTOR-INSTRUMENTS	2
AERN 45653	MULTI-ENGINE PILOT FLIGHT	1
AERN 45710	TURBINE ENGINE THEORY AND OPERATION	2
AERN 45711	TURBINE ENGINE THEORY AND OPERATION LABORATORY	1
AERN 45720	CREW RESOURCE MANAGEMENT	2
AERN 45721	CREW RESOURCE MANAGEMENT LABORATORY	1
Aeronautics (AERN) Electives		3
<b>Additional Requirements (courses do not count in major GPA)</b>		
PHY 13012	COLLEGE PHYSICS II (KBS)	2
PHY 13022	GENERAL COLLEGE PHYSICS LABORATORY II (KBS) (KLAB)	1

Kent Core Social Sciences (must be from two disciplines)	3
General Electives (total credit hours depends on earning 120 credit hours, including 39 upper-division credit hours)	1
Minimum Total Credit Hours:	59

## Unmanned Aircraft Systems Flight Operations Concentration

Code	Title	Credit Hours
AERN 15740	ELEMENTS OF FLIGHT THEORY	5
AERN 15741	PRIVATE PILOT FLIGHT	5
AERN 25800	INTRODUCTION TO UNMANNED AIRCRAFT SYSTEMS	3
AERN 35810	UNMANNED AIRCRAFT SYSTEMS	3
AERN 25100	INTRODUCTION TO AVIATION MANAGEMENT	3
AERN 35830	UNMANNED AIRCRAFT SYSTEMS SENSING AND SENSOR SYSTEMS	3
AERN 35830	UNMANNED AIRCRAFT SYSTEMS SENSING AND SENSOR SYSTEMS	3
AERN 35892	SMALL UNMANNED AIRCRAFT SYSTEMS FLIGHT PRACTICUM (ELR)	2
AERN 35650	NON-PILOT INSTRUMENT FLIGHT THEORY	3
AERN 45030	AIRCRAFT SYSTEMS II	3
AERN 45150	APPLIED FLIGHT DYNAMICS I	3
AERN 35840	UNMANNED AIRCRAFT SYSTEMS COMMAND, CONTROL AND COMMUNICATIONS	3
AERN 45800	UNMANNED AIRCRAFT SYSTEMS FLIGHT OPERATIONS THEORY	4
AERN 35250	UNMANNED AIRCRAFT SYSTEMS LAW AND REGULATIONS	2.0
AERN 35020	AIRCRAFT PROPULSION SYSTEMS	3
AERN 35040	AIRCRAFT SYSTEMS I	3
AERN 35650	NON-PILOT INSTRUMENT FLIGHT THEORY	3
AERN 45030	AIRCRAFT SYSTEMS II	3
AERN 45892	UNMANNED AIRCRAFT SYSTEMS FLIGHT PRACTICUM	2
Minimum Total Credit Hours:		59

## Progression Requirements

**Professional Pilot concentration:** Students must pass all required flight training and associated flight theory courses with a minimum 70 grade. Failure to complete all requirements may result in students being deemed not being permitted to continue in the concentration; those students will be advised to change their program to the Aeronautical Studies concentration with the Flight Technology minor.

**Flight Training Courses:** Beyond AERN 15741, all students are required to have an maintain a minimum 2.500 overall GPA to continue in flight courses. Students must complete all flight courses by the end of the semester following that in which they enrolled. In other words, if a student enrolls in a flight course in the fall, they must complete the course no later than the end of the following spring semester. This requirement is subject to waiver by the academic program director. In the absence of an authorized waiver, students who fail to complete any flight course by the end of the subsequent semester after course enrollment will receive a failing grade (F) and a complete forfeiture of the balance of the flight fees. Students who wish a refund of flight fees are required to withdraw from their flight course by the withdrawal deadlines established by the Office of the University Registrar. Flight fees will be refunded in

accordance with the University policy regarding student fee refunds, policy number 3342-7-06. Students must complete the commercial certificate and instrument rating at Kent State to be eligible for the FAA's R-ATP certificate.

## Graduation Requirements

Minimum Major GPA	Minimum Overall GPA
2.500*	2.000*

\*Minimum major and overall GPA required for each concentration:

- Minimum 2.250 major GPA and 2.000 overall GPA for Aeronautical Studies concentration
- Minimum 2.500 major GPA and 2.500 overall GPA for Air Traffic Control and Aviation Management concentrations
- Minimum 2.500 major GPA and 2.500 overall GPA for Professional Pilot concentration
- Flight courses can be repeated once with permission

## Roadmaps

- Aeronautical Studies Concentration
  - Air Traffic Control Concentration
  - Aviation Management Concentration
  - Professional Pilot Concentration
  - Unmanned Aircraft Systems Flight Operations Concentration
-

## Aeronautical Studies Concentration

This roadmap is a recommended semester-by-semester plan of study for this major. However, courses designated as critical (!) must be completed in the semester listed to ensure a timely graduation.

Semester One		Credits
AERN 15000	INTRODUCTION TO AERONAUTICS	3
AERN 15745	NON-PILOT ELEMENTS OF FLIGHT THEORY	3
! MATH 11010	ALGEBRA FOR CALCULUS (KMCR)	3
UC 10097	DESTINATION KENT STATE: FIRST YEAR EXPERIENCE	1
Kent Core Requirement		3
Kent Core Requirement		3
Credit Hours		16
Semester Two		
AERN 25250	ELEMENTS OF AVIATION WEATHER	3
AERN 25350	FUNDAMENTALS OF AIR TRAFFIC CONTROL	2
AERN 25351	FUNDAMENTALS OF AIR TRAFFIC CONTROL LABORATORY	1
COMM 15000	INTRODUCTION TO HUMAN COMMUNICATION (KADL)	3
ENGR 20002	MATERIALS AND PROCESSES	3
! MATH 11022	TRIGONOMETRY (KMCR)	3
Credit Hours		15
Semester Three		
ENGR 20000	PROFESSIONAL DEVELOPMENT IN ENGINEERING	1
ENGR 31000	CULTURAL DYNAMICS TECHNOLOGY (DIVD) (WIC)	3
! PHY 13001	GENERAL COLLEGE PHYSICS I (KBS)	4
! PHY 13021	GENERAL COLLEGE PHYSICS LABORATORY I (KBS) (KLAB)	1
Kent Core Requirement		3
Kent Core Requirement		3
Credit Hours		15
Semester Four		
AERN 25100	INTRODUCTION TO AVIATION MANAGEMENT	3
AERN 35150	AIRCRAFT STRUCTURES	3
! PHY 13012	COLLEGE PHYSICS II (KBS)	2
Kent Core Requirement		3
Kent Core Requirement		3
Credit Hours		14
Semester Five		
AERN 35020	AIRCRAFT PROPULSION SYSTEMS	3
AERN 35040	AIRCRAFT SYSTEMS I	3
ENGR 21020	SURVEY OF ELECTRICITY AND ELECTRONICS	3
ENGR 21022	SURVEY OF ELECTRICITY AND ELECTRONICS LABORATORY	1
Kent Core Requirement		3
General Electives		3
Credit Hours		16
Semester Six		
AERN 30000	PROFESSIONAL DEVELOPMENT IN AERONAUTICS	1
AERN 35341	AIR TRANSPORTATION SYSTEMS	3
AERN 45030	AIRCRAFT SYSTEMS II	3
AERN 45130	PHYSIOLOGY AND HUMAN FACTORS OF FLIGHT	3

Aeronautics (AERN) Upper-Division Electives (30000 or 40000 level)		3
Credit Hours		13
Semester Seven		
AERN 45150	APPLIED FLIGHT DYNAMICS I	3
AERN 45099 or CAE 45092	AERONAUTICAL STUDIES CAPSTONE (ELR) or AERONAUTICS AND ENGINEERING INTERNSHIP/COOPERATIVE EDUCATION (ELR)	3
AERN 45250	AVIATION LAW	3
General Electives		7
Credit Hours		16
Semester Eight		
AERN 45135	AVIATION SAFETY THEORY	3
AERN 45360	PROFESSIONAL DEVELOPMENT IN AERONAUTICS III	1
AERN 45791	AVIATION SECURITY AND POLICY SEMINAR (WIC)	3
General Electives		8
Credit Hours		15
Minimum Total Credit Hours:		120

## Air Traffic Control Concentration

This roadmap is a recommended semester-by-semester plan of study for this major. However, courses designated as critical (!) must be completed in the semester listed to ensure a timely graduation.

Semester One		Credits
!	AERN 15000 INTRODUCTION TO AERONAUTICS	3
!	AERN 15250 FAA ORIENTATION	3
!	AERN 15745 NON-PILOT ELEMENTS OF FLIGHT THEORY	3
	AERN 25350 FUNDAMENTALS OF AIR TRAFFIC CONTROL	2
	AERN 25351 FUNDAMENTALS OF AIR TRAFFIC CONTROL LABORATORY	1
	MATH 11010 ALGEBRA FOR CALCULUS (KMCR)	3
	UC 10097 DESTINATION KENT STATE: FIRST YEAR EXPERIENCE	1
Credit Hours		16
Semester Two		
	COMM 15000 INTRODUCTION TO HUMAN COMMUNICATION (KADL)	3
	MATH 11022 TRIGONOMETRY (KMCR)	3
	Kent Core Requirement	3
	Kent Core Requirement	3
	AERN Elective	3.0
Credit Hours		15
Semester Three		
	AERN 25250 ELEMENTS OF AVIATION WEATHER	3
	AERN 35342 TERMINAL OPERATIONS I	2
	AERN 35345 TERMINAL OPERATIONS I LABORATORY	1
	MGMT 24163 PRINCIPLES OF MANAGEMENT	3
	PHY 13001 GENERAL COLLEGE PHYSICS I (KBS)	4
	PHY 13021 GENERAL COLLEGE PHYSICS LABORATORY I (KBS) (KLAB)	1
Credit Hours		14
Semester Four		
	AERN 25252 THUNDERSTORMS AND SEVERE WEATHER	3
	AERN 45320 TERMINAL OPERATIONS II	2
	AERN 45321 TERMINAL OPERATIONS II LABORATORY	1
	PHY 13012 COLLEGE PHYSICS II (KBS)	2
	PHY 13022 GENERAL COLLEGE PHYSICS LABORATORY II (KBS) (KLAB)	1
	Kent Core Requirement	3
	Kent Core Requirement	3
Credit Hours		15
Semester Five		
	AERN 25100 INTRODUCTION TO AVIATION MANAGEMENT	3
!	AERN 35040 AIRCRAFT SYSTEMS I	3
	AERN 35650 NON-PILOT INSTRUMENT FLIGHT THEORY	3
	General Electives	5.0
	Kent Core Requirement	3
Credit Hours		17
Semester Six		
!	AERN 35343 EN ROUTE I	3
	AERN 45150 APPLIED FLIGHT DYNAMICS I	3
	AERN 45250 AVIATION LAW	3
	Aeronautics (AERN) Electives	3
	Kent Core Requirement	3
Credit Hours		15

### Semester Seven

	AERN 45130 PHYSIOLOGY AND HUMAN FACTORS OF FLIGHT	3
	AERN 45135 AVIATION SAFETY THEORY	3
!	AERN 45343 EN ROUTE II	2
!	AERN 45344 EN ROUTE II LABORATORY	1
	AERN 45360 PROFESSIONAL DEVELOPMENT IN AERONAUTICS III	1
	AERN 45791 AVIATION SECURITY AND POLICY SEMINAR (WIC)	3
Credit Hours		13

### Semester Eight

	AERN 45030 AIRCRAFT SYSTEMS II	3
	AERN 45399 AIR TRAFFIC CONTROL CAPSTONE (ELR)	1
	AERN 45499 AIR TRAFFIC CONTROL CAPSTONE LABORATORY (ELR)	2
Kent Core Requirement		3
General Electives		6
Credit Hours		15
Minimum Total Credit Hours:		120



## Aviation Management Concentration

This roadmap is a recommended semester-by-semester plan of study for this major. However, courses designated as critical (!) must be completed in the semester listed to ensure a timely graduation.

<b>Semester One</b>		<b>Credits</b>
!	AERN 15000 INTRODUCTION TO AERONAUTICS	3
!	AERN 15745 NON-PILOT ELEMENTS OF FLIGHT THEORY	3
!	MATH 11010 ALGEBRA FOR CALCULUS (KMCR)	3
	UC 10097 DESTINATION KENT STATE: FIRST YEAR EXPERIENCE	1
	Kent Core Requirement	3
	Kent Core Requirement	3
Credit Hours		16
<b>Semester Two</b>		
	AERN 25100 INTRODUCTION TO AVIATION MANAGEMENT	3
	AERN 25350 FUNDAMENTALS OF AIR TRAFFIC CONTROL	2
	AERN 25351 FUNDAMENTALS OF AIR TRAFFIC CONTROL LABORATORY	1
	ENGR 13585 COMPUTER AIDED ENGINEERING GRAPHICS	3
	MATH 11022 TRIGONOMETRY (KMCR)	3
	Kent Core Requirement	3
Credit Hours		15
<b>Semester Three</b>		
	AERN 25250 ELEMENTS OF AVIATION WEATHER	3
	ECON 22060 PRINCIPLES OF MICROECONOMICS (KSS)	3
	PHY 13001 GENERAL COLLEGE PHYSICS I (KBS)	4
	PHY 13021 GENERAL COLLEGE PHYSICS LABORATORY I (KBS) (KLAB)	1
	Kent Core Requirement	3
Credit Hours		14
<b>Semester Four</b>		
	ACCT 23020 INTRODUCTION TO FINANCIAL ACCOUNTING	3
	AERN 35340 AIRPORT MANAGEMENT	3
	COMM 15000 INTRODUCTION TO HUMAN COMMUNICATION (KADL)	3
	ECON 22061 PRINCIPLES OF MACROECONOMICS (KSS)	3
	MGMT 24163 PRINCIPLES OF MANAGEMENT	3
Credit Hours		15
<b>Semester Five</b>		
	AERN 30000 PROFESSIONAL DEVELOPMENT IN AERONAUTICS	1
	AERN 35339 FIXED BASE OPERATOR OPERATIONS	3
	AERN 35341 AIR TRANSPORTATION SYSTEMS	3
	HRM 34180 HUMAN RESOURCE MANAGEMENT	3
	MKTG 25010 PRINCIPLES OF MARKETING	3
	Kent Core Requirement	3
Credit Hours		16
<b>Semester Six</b>		
	AERN 35031 AIR TRANSPORTATION INDUSTRY REGULATIONS	3
!	AERN 45150 APPLIED FLIGHT DYNAMICS I	3
!	AERN 45250 AVIATION LAW	3
	COMM 20001 INTERPERSONAL COMMUNICATION	3
	Kent Core Requirement	3
Credit Hours		15
<b>Semester Seven</b>		
	AERN 45100 AIRPORT OPERATIONS	3

	AERN 45130	PHYSIOLOGY AND HUMAN FACTORS OF FLIGHT	3
	AERN 45135	AVIATION SAFETY THEORY	3
!	AERN 45791	AVIATION SECURITY AND POLICY SEMINAR (WIC)	3
Kent Core Requirement			3
Credit Hours			15
<b>Semester Eight</b>			
	AERN 45040	LABOR RELATIONS IN THE AVIATION INDUSTRY	3
	AERN 45200	STRATEGIC AVIATION MANAGEMENT (ELR)	3
	FIN 36053	BUSINESS FINANCE	3
General Electives			5.0
Credit Hours			14
Minimum Total Credit Hours:			120

### Professional Pilot Concentration

This roadmap is a recommended semester-by-semester plan of study for this major. However, courses designated as critical (!) must be completed in the semester listed to ensure a timely graduation.

Semester One		Credits
AERN 15740	ELEMENTS OF FLIGHT THEORY	5
AERN 15741	PRIVATE PILOT FLIGHT	5
! MATH 11010	ALGEBRA FOR CALCULUS (KMCR)	3
UC 10097	DESTINATION KENT STATE: FIRST YEAR EXPERIENCE	1
Kent Core Requirement		3
Credit Hours		17
Semester Two		
Requirement: Student must have a 2.5000 cumulative GPA prior to commencing flight training courses		
AERN 15000	INTRODUCTION TO AERONAUTICS	3
! AERN 25250	ELEMENTS OF AVIATION WEATHER	3
AERN 25350	FUNDAMENTALS OF AIR TRAFFIC CONTROL	2
AERN 25351	FUNDAMENTALS OF AIR TRAFFIC CONTROL LABORATORY	1
AERN 25743	COMMERCIAL PILOT FLIGHT I	2
! MATH 11022	TRIGONOMETRY (KMCR)	3
Credit Hours		14
Semester Three		
AERN 25100	INTRODUCTION TO AVIATION MANAGEMENT	3
! AERN 35644	INSTRUMENT FLIGHT THEORY	3
! AERN 35645	INSTRUMENT PILOT FLIGHT	2
COMM 15000	INTRODUCTION TO HUMAN COMMUNICATION (KADL)	3
! PHY 13001	GENERAL COLLEGE PHYSICS I (KBS)	4
! PHY 13021	GENERAL COLLEGE PHYSICS LABORATORY I (KBS) (KLAB)	1
Credit Hours		16
Semester Four		
! AERN 35020	AIRCRAFT PROPULSION SYSTEMS	3
AERN 35647	COMMERCIAL PILOT FLIGHT II	2
AERN 35746	COMMERCIAL PILOT THEORY	2
! PHY 13012	COLLEGE PHYSICS II (KBS)	2
! PHY 13022	GENERAL COLLEGE PHYSICS LABORATORY II (KBS) (KLAB)	1
Kent Core Requirement		3
Credit Hours		13
Semester Five		
AERN 30000	PROFESSIONAL DEVELOPMENT IN AERONAUTICS	1
! AERN 35040	AIRCRAFT SYSTEMS I	3
! AERN 35747	COMMERCIAL PILOT FLIGHT III	2
! AERN 45150	APPLIED FLIGHT DYNAMICS I	3
Kent Core Requirement		3
Kent Core Requirement		3
Credit Hours		15
Semester Six		
! AERN 45030	AIRCRAFT SYSTEMS II	3
! AERN 45130	PHYSIOLOGY AND HUMAN FACTORS OF FLIGHT	3
! AERN 45648	THEORY OF FLIGHT INSTRUCTION (ELR)	3
! AERN 45649	FLIGHT INSTRUCTOR/AIRPLANES	2

Kent Core Requirement		3
Credit Hours		14
Semester Seven		
! AERN 45250	AVIATION LAW	3
! AERN 45651	FLIGHT INSTRUCTOR-INSTRUMENTS	2
! AERN 45653	MULTI-ENGINE PILOT FLIGHT	1
! AERN 45720	CREW RESOURCE MANAGEMENT	2
! AERN 45721	CREW RESOURCE MANAGEMENT LABORATORY	1
Aeronautics (AERN) Electives		3
Kent Core Requirement		3
Credit Hours		15
Semester Eight		
AERN 45135	AVIATION SAFETY THEORY	3
! AERN 45710	TURBINE ENGINE THEORY AND OPERATION	2
! AERN 45711	TURBINE ENGINE THEORY AND OPERATION LABORATORY	1
! AERN 45791	AVIATION SECURITY AND POLICY SEMINAR (WIC)	3
AERN 35150	AIRCRAFT STRUCTURES	3
or	or APPLIED TRANSPORT CATEGORY	
AERN 45730	AIRCRAFT SYSTEMS	
or	or FLIGHT MANAGEMENT SYSTEMS	
AERN 45740		
Kent Core Requirement		3
General Elective		1
Credit Hours		16
Minimum Total Credit Hours:		120

### Unmanned Aircraft Systems Flight Operations CONCENTRATION

This roadmap is a recommended semester-by-semester plan of study for this major. However, courses designated as critical (!) must be completed in the semester listed to ensure a timely graduation.

Semester One		Credits
AERN 15000	INTRODUCTION TO AERONAUTICS	3
AERN 25800	INTRODUCTION TO UNMANNED AIRCRAFT SYSTEMS	3
MATH 11010	ALGEBRA FOR CALCULUS (KMCR)	3
UC 10097	DESTINATION KENT STATE: FIRST YEAR EXPERIENCE	1
Kent Core Requirement		3
Kent Core Requirement		3
Credit Hours		16
Semester Two		
AERN 15740	ELEMENTS OF FLIGHT THEORY	5
AERN 15741	PRIVATE PILOT FLIGHT	5
MATH 11022	TRIGONOMETRY (KMCR)	3
Credit Hours		13
Semester Three		
AERN 25250	ELEMENTS OF AVIATION WEATHER	3
AERN 25350	FUNDAMENTALS OF AIR TRAFFIC CONTROL	2
AERN 25351	FUNDAMENTALS OF AIR TRAFFIC CONTROL LABORATORY	1
AERN 35810	UNMANNED AIRCRAFT SYSTEMS	3
Kent Core Requirement		3
Kent Core Requirement		3
Credit Hours		15

**Semester Four**

AERN 25100	INTRODUCTION TO AVIATION MANAGEMENT	3
AERN 35830	UNMANNED AIRCRAFT SYSTEMS SENSING AND SENSOR SYSTEMS	3
COMM 15000	INTRODUCTION TO HUMAN COMMUNICATION (KADL)	3
PHY 13001	GENERAL COLLEGE PHYSICS I (KBS)	4
PHY 13021	GENERAL COLLEGE PHYSICS LABORATORY I (KBS) (KLAB)	1
Credit Hours		14

**Semester Five**

AERN 30000	PROFESSIONAL DEVELOPMENT IN AERONAUTICS	1
AERN 35020	AIRCRAFT PROPULSION SYSTEMS	3
AERN 35892	SMALL UNMANNED AIRCRAFT SYSTEMS FLIGHT PRACTICUM (ELR)	2
PHY 13012	COLLEGE PHYSICS II (KBS)	2
PHY 13022	GENERAL COLLEGE PHYSICS LABORATORY II (KBS) (KLAB)	1
Aeronautics (AERN) Elective		3
Kent Core Requirement		3
Credit Hours		15

**Semester Six**

AERN 35040	AIRCRAFT SYSTEMS I	3
AERN 35650	NON-PILOT INSTRUMENT FLIGHT THEORY	3
AERN 35830	UNMANNED AIRCRAFT SYSTEMS SENSING AND SENSOR SYSTEMS	3
AERN 45250	AVIATION LAW	3
Kent Core Requirement		3
Credit Hours		15

**Semester Seven**

AERN 35840	UNMANNED AIRCRAFT SYSTEMS COMMAND, CONTROL AND COMMUNICATIONS	3
Kent Core Requirement		3
AERN 45030	AIRCRAFT SYSTEMS II	3
AERN 45130	PHYSIOLOGY AND HUMAN FACTORS OF FLIGHT	3
AERN 45150	APPLIED FLIGHT DYNAMICS I	3
Credit Hours		15

**Semester Eight**

AERN 35250	UNMANNED AIRCRAFT SYSTEMS LAW AND REGULATIONS	2
AERN 45130	PHYSIOLOGY AND HUMAN FACTORS OF FLIGHT	3
AERN 45791	AVIATION SECURITY AND POLICY SEMINAR (WIC)	3
AERN 45800	UNMANNED AIRCRAFT SYSTEMS FLIGHT OPERATIONS THEORY	4
AERN 45892	UNMANNED AIRCRAFT SYSTEMS FLIGHT PRACTICUM	2
Kent Core Requirement		3
Credit Hours		17
Minimum Total Credit Hours:		120

## Aerospace Engineering - B.S.

College of Aeronautics and Engineering  
Aeronautics and Technology Building  
Kent Campus  
330-672-2892  
cae@kent.edu

[www.kent.edu/cae](http://www.kent.edu/cae)

## Description

The Bachelor of Science degree in Aerospace Engineering focuses on the application of engineering principles to the design, manufacturing, and functionality of aerospace vehicles such as aircraft, missiles and spacecraft, to include autonomous and semi-autonomous unmanned aerial systems. Students gain an in-depth knowledge of aerodynamics, engineering materials and processes, structures, propulsion, flight mechanics, and control, while being exposed to orbital mechanics, space structures, and rocket propulsion.

## Fully Offered At:

- Kent Campus

## Admission Requirements

The university affirmatively strives to provide educational opportunities and access to students with varied backgrounds, those with special talents and adult students who graduated from high school three or more years ago.

Admission to the Aerospace Engineering major is selective.

**Freshmen Students:** Admission into the Aerospace Engineering major requires a minimum 3.0 high school GPA; and a minimum 24 ACT composite score (minimum 24 ACT sub-scores in both English and math) or a minimum 1160 SAT score (minimum 580 sub-scores in both mathematics and evidence-based reading and writing); and placement directly into MATH 12002 (or its equivalent).

Students who do not meet these requirements may apply for admission to the Aeronautical Systems Engineering Technology major and request to change their program to the Aerospace Engineering major after their freshman year if they meet the following criteria: minimum 3.200 overall Kent State GPA and minimum B grade in both MATH 12002 and PHY 23101.

### English Language Proficiency Requirements for International Students:

All international students must provide proof of English language proficiency (unless they meet specific exceptions) by earning a minimum 525 TOEFL score (71 on the Internet-based version), minimum 75 MELAB score, minimum 6.0 IELTS score or minimum 48 PTE Academic score, or by completing the ELS level 112 Intensive Program. For more information on international admission, visit the Office of Global Education's admission website.

**Transfer Students:** Admission into the Aerospace Engineering major requires minimum 12 credit hours in college-level coursework with a minimum 3.200 overall GPA and a minimum B grade in both MATH 12002 and PHY 23101 (or their equivalents). Transfer students who have completed fewer than 12 credit hours of college-level coursework will be evaluated on both collegiate and high school records and must submit a final high school transcript and an ACT or SAT score.

## Program Learning Outcomes

Graduates of this program will be able to:

1. identify, formulate, and solve complex engineering problems by applying principles of engineering, science, and mathematics
2. apply engineering design to produce solutions that meet specified needs with consideration of public health, safety, and welfare, as well as global, cultural, social, environmental, and economic factors
3. communicate effectively with a range of audiences
4. recognize ethical and professional responsibilities in engineering situations and make informed judgments, which must consider the impact of engineering solutions in global, economic, environmental, and societal contexts
5. function effectively on a team whose members together provide leadership, create a collaborative and inclusive environment, establish goals, plan tasks, and meet objectives
6. develop and conduct appropriate experimentation, analyze and interpret data, and use engineering judgment to draw conclusions
7. acquire and apply new knowledge as needed, using appropriate learning strategies

## University Requirements

All students in a bachelor's degree program at Kent State University must complete the following university requirements for graduation.

**NOTE:** University requirements may be fulfilled in this program by specific course requirements. Please see Program Requirements for details.

Destination Kent State: First Year Experience	1
Course is not required for students with 25 transfer credits, excluding College Credit Plus, or age 21+ at time of admission.	
Diversity Domestic/Global (DIVD/DIVG)	2 courses
Students must successfully complete one domestic and one global course, of which one must be from the Kent Core.	
Experiential Learning Requirement (ELR)	varies
Students must successfully complete one course or approved experience.	
Kent Core (see table below)	36-37
Writing-Intensive Course (WIC)	1 course
Students must earn a minimum C grade in the course.	
Upper-Division Requirement	39 (or 42)
Students must successfully complete 39 upper-division (numbered 30000 to 49999) credit hours to graduate. Students in a B.A. and/or B.S. degree in the College of Arts and Sciences must complete 42 upper-division credit hours.	
Total Credit Hour Requirement	120
Some bachelor's degrees require students to complete more than 120 credit hours.	

## Kent Core Requirements

Kent Core Composition (KCOMP)	6
Kent Core Mathematics and Critical Reasoning (KMCR)	3
Kent Core Humanities and Fine Arts (KHUM/KFA) (min one course each)	9
Kent Core Social Sciences (KSS) (must be from two disciplines)	6
Kent Core Basic Sciences (KBS/KLAB) (must include one laboratory)	6-7
Kent Core Additional (KADL)	6
<b>Total Credit Hours:</b>	<b>36-37</b>

## Program Requirements

### Major Requirements

Code	Title	Credit Hours
<b>Major Requirements (courses count in major GPA)</b>		
AERN 25200	STATICS	3
AERN 30000	PROFESSIONAL DEVELOPMENT IN AERONAUTICS	1
ENGR 13585	COMPUTER AIDED ENGINEERING GRAPHICS	3
ENGR 15300	INTRODUCTION TO ENGINEERING ANALYSIS USING MATLAB®	2
ENGR 15301	INTRODUCTION TO ENGINEERING ANALYSIS USING MATLAB® LAB	1
ENGR 15500	INTRODUCTION TO AEROSPACE ENGINEERING (min C grade)	3
ENGR 20002	MATERIALS AND PROCESSES	3
ENGR 25400	DYNAMICS	3
ENGR 25500	AERODYNAMICS FOR ENGINEERS I (min C grade)	3
ENGR 35200	THERMAL FLUID ENGINEERING	3
ENGR 35201	THERMAL FLUID ENGINEERING LABORATORY	1
ENGR 35300	AEROSPACE VEHICLE PERFORMANCE I	3
ENGR 35400	SYSTEM DYNAMICS AND CONTROL	3
ENGR 35500	SIGNALS AND CIRCUITS	3
ENGR 35501	SIGNALS AND CIRCUITS LABORATORY	1
ENGR 35600	AERODYNAMICS FOR ENGINEERS II	3
ENGR 42111	STRENGTH OF MATERIALS FOR ENGINEERS	3
ENGR 45121	AEROSPACE PROPULSION FOR ENGINEERING AND ENGINEERING TECHNOLOGY	3
ENGR 45600	AEROSPACE VEHICLE PERFORMANCE II	3
ENGR 45700	AIRCRAFT DESIGN (ELR)	3
ENGR 45850	AIRCRAFT DESIGN II (WIC)	3
ENGR 45901	INTRODUCTION TO FINITE ELEMENT METHOD AND APPLICATIONS	3
ENGR 48001	ORBITAL MECHANICS	3
College of Aeronautics and Engineering Electives, choose from the following:		3
Aeronautics (AERN) Electives		
College of Aeronautics and Engineering (CAE) Electives		
Engineering (ENGR) Electives		
<b>Additional Requirements (courses do not count in major GPA)</b>		
CHEM 10060	GENERAL CHEMISTRY I (KBS)	4
ECON 22060	PRINCIPLES OF MICROECONOMICS (KSS)	3
MATH 12002	ANALYTIC GEOMETRY AND CALCULUS I (KMCR)	5
MATH 12003	ANALYTIC GEOMETRY AND CALCULUS II	5
MATH 32051	MATHEMATICAL METHODS IN THE PHYSICAL SCIENCES I	4
MATH 32052	MATHEMATICAL METHODS IN THE PHYSICAL SCIENCES II	4
PHY 23101	GENERAL UNIVERSITY PHYSICS I (KBS) (KLAB)	5
PHY 23102	GENERAL UNIVERSITY PHYSICS II (KBS) (KLAB)	5
UC 10097	DESTINATION KENT STATE: FIRST YEAR EXPERIENCE	1
Kent Core Composition		6
Kent Core Humanities and Fine Arts (minimum one course from each)		9

Kent Core Social Studies (cannot be from ECON)	3
Kent Core Additional	3
<hr/>	
Minimum Total Credit Hours:	120

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## Graduation Requirements

Minimum Major GPA	Minimum Overall GPA
2.750	2.500



## Roadmap

This roadmap is a recommended semester-by-semester plan of study for this major. However, courses designated as critical (!) must be completed in the semester listed to ensure a timely graduation.

Semester One		Credits
!	ENGR 15300 INTRODUCTION TO ENGINEERING ANALYSIS USING MATLAB®	2
!	ENGR 15301 INTRODUCTION TO ENGINEERING ANALYSIS USING MATLAB® LAB	1
!	CHEM 10060 GENERAL CHEMISTRY I (KBS)	4
!	MATH 12002 ANALYTIC GEOMETRY AND CALCULUS I (KMCR)	5
	UC 10097 DESTINATION KENT STATE: FIRST YEAR EXPERIENCE	1
Kent Core Requirement		3
Credit Hours		16
Semester Two		
	ENGR 13585 COMPUTER AIDED ENGINEERING GRAPHICS	3
	ENGR 15500 INTRODUCTION TO AEROSPACE ENGINEERING	3
!	MATH 12003 ANALYTIC GEOMETRY AND CALCULUS II	5
!	PHY 23101 GENERAL UNIVERSITY PHYSICS I (KBS) (KLAB)	5
Credit Hours		16
Semester Three		
!	AERN 25200 STATICS	3
!	MATH 32051 MATHEMATICAL METHODS IN THE PHYSICAL SCIENCES I	4
!	PHY 23102 GENERAL UNIVERSITY PHYSICS II (KBS) (KLAB)	5
Kent Core Requirement		3
Credit Hours		15
Semester Four		
	ECON 22060 PRINCIPLES OF MICROECONOMICS (KSS)	3
	ENGR 20002 MATERIALS AND PROCESSES	3
	ENGR 25400 DYNAMICS	3
	ENGR 25500 AERODYNAMICS FOR ENGINEERS I	3
!	MATH 32052 MATHEMATICAL METHODS IN THE PHYSICAL SCIENCES II	4
Credit Hours		16
Semester Five		
	ENGR 35200 THERMAL FLUID ENGINEERING	3
	ENGR 35201 THERMAL FLUID ENGINEERING LABORATORY	1
	ENGR 35500 SIGNALS AND CIRCUITS	3
	ENGR 35501 SIGNALS AND CIRCUITS LABORATORY	1
	ENGR 35600 AERODYNAMICS FOR ENGINEERS II	3
	ENGR 42111 STRENGTH OF MATERIALS FOR ENGINEERS	3
Credit Hours		14
Semester Six		
!	AERN 30000 PROFESSIONAL DEVELOPMENT IN AERONAUTICS	1
	ENGR 35300 AEROSPACE VEHICLE PERFORMANCE I	3
	ENGR 35400 SYSTEM DYNAMICS AND CONTROL	3
	ENGR 45121 AEROSPACE PROPULSION FOR ENGINEERING AND ENGINEERING TECHNOLOGY	3
Kent Core Requirement		3
Credit Hours		13
Semester Seven		
	ENGR 45600 AEROSPACE VEHICLE PERFORMANCE II	3
	ENGR 45700 AIRCRAFT DESIGN (ELR)	3

College of Aeronautics and Engineering Electives		3
Kent Core Requirement		3
Kent Core Requirement		3
Credit Hours		15
Semester Eight		
	ENGR 45850 AIRCRAFT DESIGN II (WIC)	3
!	ENGR 45901 INTRODUCTION TO FINITE ELEMENT METHOD AND APPLICATIONS	3
!	ENGR 48001 ORBITAL MECHANICS	3
Kent Core Requirement		3
Kent Core Requirement		3
Credit Hours		15
Minimum Total Credit Hours:		120

## Aircraft Dispatch - Minor

### College of Aeronautics and Engineering

Aeronautics and Technology Building

Kent Campus

330-672-2892

cae@kent.edu

www.kent.edu/cae

## Description

This Aircraft Dispatch minor prepares students to take the written, oral and practical exams leading to the issuance of an aircraft dispatch license. An aircraft dispatcher plans for, coordinates and disseminates information concerning daily flight schedules, while establishing and maintaining rapport with flight crews, pilots, passengers, ground handlers and customers.

## Fully Offered At:

- Kent Campus

## Admission Requirements

Admission to a minor is open to students declared in a bachelor's degree, the A.A.B. or A.A.S. degree or the A.T.S. degree (not Individualized Program major). Students declared only in the A.A. or A.S. degree or the A.T.S. degree in Individualized Program may not declare a minor. Students may not pursue a minor and a major in the same discipline.

## Program Learning Outcomes

Graduates of the program will be able to:

- Pass the written, oral and practical exams to earn the aircraft dispatch license.
- Demonstrate operational knowledge of domestic air travel, including industry and governmental agencies, airport identifiers, scheduling protocol, flight planning procedures and the application of weather theory to develop the skills of a professional dispatcher.
- Exemplify a high standard of ethical and professional behavior.

## Minor Requirements

Code	Title	Credit Hours
<b>Minor Requirements</b>		
AERN 15740	ELEMENTS OF FLIGHT THEORY	3-5
or AERN 15745	NON-PILOT ELEMENTS OF FLIGHT THEORY	
AERN 25250	ELEMENTS OF AVIATION WEATHER	3
AERN 25252	THUNDERSTORMS AND SEVERE WEATHER	3
AERN 25350	FUNDAMENTALS OF AIR TRAFFIC CONTROL	2
AERN 25351	FUNDAMENTALS OF AIR TRAFFIC CONTROL LABORATORY	1
AERN 35644	INSTRUMENT FLIGHT THEORY	3
or AERN 35650	NON-PILOT INSTRUMENT FLIGHT THEORY	
AERN 45010	AIRCRAFT DISPATCH I	3
AERN 45020	AIRCRAFT DISPATCH II	3
AERN 45791	AVIATION SECURITY AND POLICY SEMINAR (WIC)	3
Minimum Total Credit Hours:		24

## Graduation Requirements

Minimum Minor GPA	Minimum Overall GPA
2.000	2.000

- Minimum 6 credit hours in the minor must be upper-division coursework (30000 and 40000 level).
- Minimum 6 credit hours in the minor must be outside of the course requirements for any major or other minor the student is pursuing.
- Minimum 50 percent of the total credit hours for the minor must be taken at Kent State (in residence).

## Applied Engineering - B.S.

**College of Aeronautics and Engineering**  
Aeronautics and Technology Building  
Kent Campus  
330-672-2892  
cae@kent.edu  
www.kent.edu/cae

## Description

The Bachelor of Science degree in Applied Engineering provides a focus on the application of management, design and technical skills for the design and integration of systems, the execution of new product designs, the improvement of manufacturing processes and the management and direction of physical and/or technical functions of a firm or organization.

The major includes instruction in basic engineering principles, project management, processes, production and operations, systems integration and control, quality and statistics. Students learn in the classroom, as well as through hands-on experiments and real-world internships.

The degree program can also function as a completer degree for students with associate degrees in engineering technology.

The Applied Engineering major comprises the following concentrations:

- The **Applied Engineering and Technology Management** concentration provides students the necessary skills and knowledge to manage in technical environment. Graduates will have an understanding of materials, facility design, quality and safety.
- The **Foundry Technology** concentration prepares students for employment in the metal casting industry. Graduates of the program will have completed coursework in Materials & Processes, Cast Metals, Metallurgy and Material Science, Solid Modeling and Solidification and applied their knowledge and skills in the capstone course, Foundry Tooling and Pattern Making. They will also have taken several management courses and have experience with programmable logic controllers, hydraulics & pneumatics and computer-aided manufacturing.

## Fully Offered At:

- Kent Campus

## Accreditation

The B.S. degree in Applied Engineering - Applied Engineering and Technology Management concentration is accredited by the Association of Technology, Management and Applied Engineering (ATMAE).

## Admission Requirements

The university affirmatively strives to provide educational opportunities and access to students with varied backgrounds, those with special talents and adult students who graduated from high school three or more years ago.

**Freshman Students on the Kent Campus:** The freshman admission policy on the Kent Campus is selective. Admission decisions are based upon the following: cumulative grade point average, ACT and/or SAT scores, strength of high school college preparatory curriculum and grade trends. The Admissions Office at the Kent Campus may defer the admission of students who do not meet admissions criteria but who demonstrate areas of promise for successful college study. Deferred applicants may begin their college coursework at one of seven regional campuses of Kent State University. For more information on admissions, including additional requirements for some academic programs, visit the admissions website for new freshmen.

**Freshman Students on the Regional Campuses:** Kent State campuses at Ashtabula, East Liverpool, Geauga, Salem, Stark, Trumbull and Tuscarawas, as well as the Regional Academic Center in Twinsburg, have open enrollment admission for students who hold a high school diploma, GED or equivalent.

**English Language Proficiency Requirements for International Students:** All international students must provide proof of English language proficiency (unless they meet specific exceptions) by earning a minimum 525 TOEFL score (71 on the Internet-based version), minimum 75 MELAB score, minimum 6.0 IELTS score or minimum 48 PTE score, or by completing the ESL level 112 Intensive Program. For more information on international admission, visit the Office of Global Education's admission website.

**Transfer, Transitioning and Former Students:** For more information about admission criteria for transfer, transitioning and former students, please visit the admissions website.

## Program Learning Outcomes

Graduates of this program will be able to:

1. Develop technical competencies based on engineering principles.
2. Integrate communications, social and physical sciences to develop critical thinking and quantitative skills.
3. Develop the necessary skill set to solve complex technological problems from a systems and sustainability perspective.

## University Requirements

All students in a bachelor's degree program at Kent State University must complete the following university requirements for graduation.

**NOTE:** University requirements may be fulfilled in this program by specific course requirements. Please see Program Requirements for details.

Destination Kent State: First Year Experience	1
Course is not required for students with 25 transfer credits, excluding College Credit Plus, or age 21+ at time of admission.	
Diversity Domestic/Global (DIVD/DIVG)	2 courses
Students must successfully complete one domestic and one global course, of which one must be from the Kent Core.	
Experiential Learning Requirement (ELR)	varies
Students must successfully complete one course or approved experience.	
Kent Core (see table below)	36-37
Writing-Intensive Course (WIC)	1 course
Students must earn a minimum C grade in the course.	
Upper-Division Requirement	39 (or 42)
Students must successfully complete 39 upper-division (numbered 30000 to 49999) credit hours to graduate. Students in a B.A. and/or B.S. degree in the College of Arts and Sciences must complete 42 upper-division credit hours.	
Total Credit Hour Requirement	120
Some bachelor's degrees require students to complete more than 120 credit hours.	

## Kent Core Requirements

Kent Core Composition (KCOMP)	6
Kent Core Mathematics and Critical Reasoning (KMCR)	3
Kent Core Humanities and Fine Arts (KHUM/KFA) (min one course each)	9
Kent Core Social Sciences (KSS) (must be from two disciplines)	6
Kent Core Basic Sciences (KBS/KLAB) (must include one laboratory)	6-7
Kent Core Additional (KADL)	6
<b>Total Credit Hours:</b>	<b>36-37</b>

### Program Requirements

### Major Requirements

Code	Title	Credit Hours
<b>Major Requirements (course count in major GPA)</b>		
ENG 20002	INTRODUCTION TO TECHNICAL WRITING	3
ENGR 13585	COMPUTER AIDED ENGINEERING GRAPHICS	3
ENGR 20002	MATERIALS AND PROCESSES	3
ENGR 21020	SURVEY OF ELECTRICITY AND ELECTRONICS	3

ENGR 21022	SURVEY OF ELECTRICITY AND ELECTRONICS LABORATORY	1
ENGR 31000	CULTURAL DYNAMICS TECHNOLOGY (DIVD) (WIC)	3
ENGR 23585	ADVANCED COMPUTER AIDED DESIGN	3
ENGR 31016	MANUFACTURING TECHNOLOGY	3
ENGR 31020	AUTOMATED MANUFACTURING	3
ENGR 31065	CAST METALS	3
ENGR 33031	PROGRAMMABLE LOGIC CONTROLLERS	3
ENGR 33033	HYDRAULICS/PNEUMATICS	3
ENGR 33700	QUALITY TECHNIQUES	3
ENGR 36620	PROJECT MANAGEMENT IN ENGINEERING AND TECHNOLOGY	3
ENGR 43080	INDUSTRIAL AND ENVIRONMENTAL SAFETY	3
<b>Additional Requirements (courses do not count in major GPA)</b>		
COMM 15000	INTRODUCTION TO HUMAN COMMUNICATION (KADL)	3
MATH 11010	ALGEBRA FOR CALCULUS (KMCR)	3
MATH 11022	TRIGONOMETRY (KMCR)	3
PHY 13001	GENERAL COLLEGE PHYSICS I (KBS)	4
PHY 13002	GENERAL COLLEGE PHYSICS II (KBS)	4
PHY 13021	GENERAL COLLEGE PHYSICS LABORATORY I (KBS) (KLAB)	1
PHY 13022	GENERAL COLLEGE PHYSICS LABORATORY II (KBS) (KLAB)	1
PSYC 11762	GENERAL PSYCHOLOGY (DIVD) (KSS)	3
PSYC 31773	INDUSTRIAL PSYCHOLOGY	3
UC 10097	DESTINATION KENT STATE: FIRST YEAR EXPERIENCE	1

Kent Core Composition	6
Kent Core Humanities and Fine Arts (minimum one course from each)	9
<b>Concentrations</b>	
Choose one of the following:	36
Applied Engineering and Technology Management	
Foundry Technology	
Minimum Total Credit Hours:	120

## APPLIED ENGINEERING AND TECHNOLOGY MANAGEMENT CONCENTRATION REQUIREMENTS

Code	Title	Credit Hours
<b>Concentration Requirements (courses count in major GPA)</b>		
ENGR 10001	INFORMATION TECHNOLOGY	3
ENGR 20001	ENERGY/POWER	3
ENGR 33870	FACILITY DESIGN AND MATERIAL HANDLING	3
ENGR 43060	MANAGEMENT OF TECHNOLOGY INNOVATION	3
ENGR 43550	COMPUTER-AIDED MANUFACTURING	3
ENGR 43899	APPLIED ENGINEERING TECHNOLOGY SEMINAR	3
MGMT 24056	BUSINESS ANALYTICS I	3
<b>Additional Requirements (courses do not count in major GPA)</b>		
ECON 22060	PRINCIPLES OF MICROECONOMICS (KSS)	3
General Electives (total credit hours depends on earning 120 credit hours, including 39 upper-division credit hours)		12
Minimum Total Credit Hours:		36

## Foundry Technology Concentrations Requirements

Code	Title	Credit Hours
<b>Concentration Requirements (courses count in major GPA)</b>		
ENGR 26010	INTRODUCTION TO COMPUTER ENGINEERING TECHNOLOGY	3
ENGR 31010	ENGINEERING AND PROFESSIONAL ETHICS	3
ENGR 33111	STATICS AND STRENGTH OF MATERIALS	3
ENGR 33363	MATERIALS SCIENCE AND TECHNOLOGY	3
ENGR 33870	FACILITY DESIGN AND MATERIAL HANDLING	3
ENGR 43550	COMPUTER-AIDED MANUFACTURING	3
ENGR 41065	SOLID MODELING AND SOLIDIFICATION	3
ENGR 45099	CAPSTONE: FOUNDRY TOOLING AND PATTERN MAKING (ELR)	3
<b>Additional Requirements (courses do not count in major GPA)</b>		
CHEM 10050	FUNDAMENTALS OF CHEMISTRY (KBS)	3
MGMT 24163	PRINCIPLES OF MANAGEMENT	3
HRM 34180	HUMAN RESOURCE MANAGEMENT	3
Kent Core Social Sciences (must be from two disciplines)		3
Minimum Total Credit Hours:		36

## Graduation Requirements

Minimum Major GPA	Minimum Overall GPA
2.250	2.000

## Roadmaps

- Applied Engineering and Technology Management Concentration
- Foundry Technology Concentration

## Applied Engineering and Technology Management Concentration

This roadmap is a recommended semester-by-semester plan of study for this major. However, courses designated as critical (!) must be completed in the semester listed to ensure a timely graduation.

Course	Title	Credits
<b>Semester One</b>		
! ENGR 10001	INFORMATION TECHNOLOGY	3
ENGR 13585	COMPUTER AIDED ENGINEERING GRAPHICS	3
ENGR 20002	MATERIALS AND PROCESSES	3
! MATH 11010	ALGEBRA FOR CALCULUS (KMCR)	3
UC 10097	DESTINATION KENT STATE: FIRST YEAR EXPERIENCE	1
Kent Core Requirement		3
Credit Hours		16
<b>Semester Two</b>		
! COMM 15000	INTRODUCTION TO HUMAN COMMUNICATION (KADL)	3
! MATH 11022	TRIGONOMETRY (KMCR)	3
PSYC 11762	GENERAL PSYCHOLOGY (DIVD) (KSS)	3
ENGR 23585	ADVANCED COMPUTER AIDED DESIGN	3
Kent Core Requirement		3
Credit Hours		15
<b>Semester Three</b>		
! ENG 20002	INTRODUCTION TO TECHNICAL WRITING	3
ENGR 31016	MANUFACTURING TECHNOLOGY	3
MGMT 24056	BUSINESS ANALYTICS I	3
! PHY 13001	GENERAL COLLEGE PHYSICS I (KBS)	4
! PHY 13021	GENERAL COLLEGE PHYSICS LABORATORY I (KBS) (KLAB)	1
Credit Hours		14
<b>Semester Four</b>		
! ECON 22060	PRINCIPLES OF MICROECONOMICS (KSS)	3
PHY 13002	GENERAL COLLEGE PHYSICS II (KBS)	4
PHY 13022	GENERAL COLLEGE PHYSICS LABORATORY II (KBS) (KLAB)	1
! ENGR 31065	CAST METALS	3
ENGR 33033	HYDRAULICS/PNEUMATICS	3
Kent Core Requirement		3
Credit Hours		17
<b>Semester Five</b>		
ENGR 21020	SURVEY OF ELECTRICITY AND ELECTRONICS	3
ENGR 21022	SURVEY OF ELECTRICITY AND ELECTRONICS LABORATORY	1
ENGR 31000	CULTURAL DYNAMICS TECHNOLOGY (DIVD) (WIC)	3
ENGR 31020	AUTOMATED MANUFACTURING	3
ENGR 33700	QUALITY TECHNIQUES	3
PSYC 31773	INDUSTRIAL PSYCHOLOGY	3
Credit Hours		16
<b>Semester Six</b>		
ENGR 33031	PROGRAMMABLE LOGIC CONTROLLERS	3
ENGR 33870	FACILITY DESIGN AND MATERIAL HANDLING	3
ENGR 36620	PROJECT MANAGEMENT IN ENGINEERING AND TECHNOLOGY	3
Kent Core Requirement		3

Kent Core Requirement		3
Credit Hours		15
<b>Semester Seven</b>		
ENGR 20001	ENERGY/POWER	3
ENGR 43060	MANAGEMENT OF TECHNOLOGY INNOVATION	3
ENGR 43550	COMPUTER-AIDED MANUFACTURING	3
General Electives		6
Credit Hours		15
<b>Semester Eight</b>		
ENGR 43080	INDUSTRIAL AND ENVIRONMENTAL SAFETY	3
ENGR 43899	APPLIED ENGINEERING TECHNOLOGY SEMINAR	3
General Electives		6
Credit Hours		12
Minimum Total Credit Hours:		120



## Foundry Technology Concentration

This roadmap is a recommended semester-by-semester plan of study for this major. However, courses designated as critical (!) must be completed in the semester listed to ensure a timely graduation.

Course	Title	Credits
<b>Semester One</b>		
ENGR 13585	COMPUTER AIDED ENGINEERING GRAPHICS	3
ENGR 20002	MATERIALS AND PROCESSES	3
ENGR 26010	INTRODUCTION TO COMPUTER ENGINEERING TECHNOLOGY	3
! MATH 11010	ALGEBRA FOR CALCULUS (KMCR)	3
UC 10097	DESTINATION KENT STATE: FIRST YEAR EXPERIENCE	1
Kent Core Requirement		3
Credit Hours		16
<b>Semester Two</b>		
CHEM 10050	FUNDAMENTALS OF CHEMISTRY (KBS)	3
! COMM 15000	INTRODUCTION TO HUMAN COMMUNICATION (KADL)	3
ENGR 23585	ADVANCED COMPUTER AIDED DESIGN	3
! MATH 11022	TRIGONOMETRY (KMCR)	3
Kent Core Requirement		3
Credit Hours		15
<b>Semester Three</b>		
! ENG 20002	INTRODUCTION TO TECHNICAL WRITING	3
ENGR 31016	MANUFACTURING TECHNOLOGY	3
! PHY 13001	GENERAL COLLEGE PHYSICS I (KBS)	4
! PHY 13021	GENERAL COLLEGE PHYSICS LABORATORY I (KBS) (KLAB)	1
PSYC 11762	GENERAL PSYCHOLOGY (DIVD) (KSS)	3
Credit Hours		14
<b>Semester Four</b>		
ENGR 33033	HYDRAULICS/PNEUMATICS	3
MGMT 24163	PRINCIPLES OF MANAGEMENT	3
! PHY 13002	GENERAL COLLEGE PHYSICS II (KBS)	4
! PHY 13022	GENERAL COLLEGE PHYSICS LABORATORY II (KBS) (KLAB)	1
Kent Core Requirement		3
Credit Hours		14
<b>Semester Five</b>		
ENGR 21020	SURVEY OF ELECTRICITY AND ELECTRONICS	3
ENGR 21022	SURVEY OF ELECTRICITY AND ELECTRONICS LABORATORY	1
ENGR 31000	CULTURAL DYNAMICS TECHNOLOGY (DIVD) (WIC)	3
ENGR 31020	AUTOMATED MANUFACTURING	3
! PSYC 31773	INDUSTRIAL PSYCHOLOGY	3
Kent Core Requirement		3
Credit Hours		16
<b>Semester Six</b>		
ENGR 31065	CAST METALS	3
! ENGR 33031	PROGRAMMABLE LOGIC CONTROLLERS	3
ENGR 36620	PROJECT MANAGEMENT IN ENGINEERING AND TECHNOLOGY	3
ENGR 33870	FACILITY DESIGN AND MATERIAL HANDLING	3
Kent Core Requirement		3
Credit Hours		15

### Semester Seven

ENGR 33111	STATICS AND STRENGTH OF MATERIALS	3
ENGR 33700	QUALITY TECHNIQUES	3
ENGR 41065	SOLID MODELING AND SOLIDIFICATION	3
ENGR 43550	COMPUTER-AIDED MANUFACTURING	3
Kent Core Requirement		3

Credit Hours 15

### Semester Eight

ENGR 31010	ENGINEERING AND PROFESSIONAL ETHICS	3
ENGR 33363	MATERIALS SCIENCE AND TECHNOLOGY	3
ENGR 43080	INDUSTRIAL AND ENVIRONMENTAL SAFETY	3
ENGR 45099	CAPSTONE: FOUNDRY TOOLING AND PATTERN MAKING (ELR)	3
HRM 34180	HUMAN RESOURCE MANAGEMENT	3

Credit Hours 15

Minimum Total Credit Hours: 120

## Aviation Law and Policy - Minor

### College of Aeronautics and Engineering

Aeronautics and Technology Building

Kent Campus

330-672-2892

cae@kent.edu

www.kent.edu/cae

## Description

Students pursuing the Aviation Law and Policy minor will gain a deep understanding of existing policy and case law while developing the skills necessary to influence the regulatory process which establishes and creates new laws and regulations. This minor will enhance the learning experience from a multitude of disciplines (aeronautics, engineering, business, pre-law etc) and prepare students to affect change in the air transportation industry from a variety of career fields. The air transportation industry is one of the most heavily regulated in the U.S. economy. Responsible for more than 10 million jobs and driving 5 percent of the U.S. gross domestic product (GDP) and nearly \$1.5 trillion in annual economic activity, the industry requires aviation professionals who can readily navigate the complex areas of aviation regulations.

### Fully Offered At:

- Kent Campus

## Admission Requirements

Admission to a minor is open to students declared in a bachelor's degree, the A.A.B. or A.A.S. degree or the A.T.S. degree (not Individualized Program major). Students declared only in the A.A. or A.S. degree or the A.T.S. degree in Individualized Program may not declare a minor. Students may not pursue a minor and a major in the same discipline.

## Program Learning Outcomes

Graduates from this program will be able to:

1. identify, formulate, and solve applied aviation problems
2. work effectively on multi-disciplinary and diverse teams
3. make professional and ethical decisions

4. communicate effectively, using both written and oral communication skills

## Program Requirements

### Minor Requirements

Code	Title	Credit Hours
<b>Minor Requirements</b>		
AERN 45250	AVIATION LAW	3
AERN 45791	AVIATION SECURITY AND POLICY SEMINAR (WIC)	3
PLST 28001	LEGAL RESEARCH AND WRITING	3
POL 10300	PUBLIC POLICY	3
or POL 10500	WORLD POLITICS (DIVG) (KSS)	
Aeronautics electives, choose from the following:		5
AERN 35031	AIR TRANSPORTATION INDUSTRY REGULATIONS	
AERN 35250	UNMANNED AIRCRAFT SYSTEMS LAW AND REGULATIONS	
AERN 45255	LEGAL ANALYSIS OF AVIATION AND ENGINEERING DISASTERS	
AERN 45400	AVIATION MAINTENANCE LAW AND REGULATIONS	
ENGR 35550	LAW AND ETHICS FOR ENGINEERS	
Minimum Total Credit Hours:		17

### Graduation Requirements

Minimum Minor GPA	Minimum Overall GPA
2.000	2.000

- Minimum 6 credit hours in the minor must be upper-division coursework (30000 and 40000 level).
- Minimum 6 credit hours in the minor must be outside of the course requirements for any major or other minor the student is pursuing.
- Minimum 50 percent of the total credit hours for the minor must be taken at Kent State (in residence).

## Aviation Management - Minor

### College of Aeronautics and Engineering

Aeronautics and Technology Building  
Kent Campus  
330-672-2892  
cae@kent.edu  
www.kent.edu/cae

### Description

The Aviation Management minor is offered to those students whose career paths may one day be focused towards management or operations across the breadth of the aviation industry.

### Fully Offered At:

- Kent Campus

## Admission Requirements

Admission to a minor is open to students declared in a bachelor's degree, the A.A.B. or A.A.S. degree or the A.T.S. degree (not Individualized Program major). Students declared only in the A.A. or A.S. degree or the A.T.S. degree in Individualized Program may not declare a minor. Students may not pursue a minor and a major in the same discipline.

## Program Learning Outcomes

Graduates of this program will be able to:

1. Demonstrate a thorough understanding of fundamental aeronautical management concepts and practices.
2. Demonstrate a comprehensive understanding and application of aviation business management principles.

## Minor Requirements

Code	Title	Credit Hours
<b>Minor Requirements</b>		
AERN 35340	AIRPORT MANAGEMENT	3
AERN 35341	AIR TRANSPORTATION SYSTEMS	3
AERN 35339	FIXED BASE OPERATOR OPERATIONS	3
AERN 45100	AIRPORT OPERATIONS	3
AERN 45040	LABOR RELATIONS IN THE AVIATION INDUSTRY	3
or AERN 45200	STRATEGIC AVIATION MANAGEMENT (ELR)	
Minimum Total Credit Hours:		15

### Graduation Requirements

Minimum Minor GPA	Minimum Overall GPA
2.5000	2.000

- Minimum 6 credit hours in the minor must be upper-division coursework (30000 and 40000 level).
- Minimum 6 credit hours in the minor must be outside of the course requirements for any major or other minor the student is pursuing.
- Minimum 50 percent of the total credit hours for the minor must be taken at Kent State (in residence).

## Aviation Management and Logistics - M.S

### College of Aeronautics and Engineering

Aeronautics and Technology Building  
Kent Campus  
330-672-2892  
cae@kent.edu  
www.kent.edu/cae

### Description

The Master of Science degree in Aviation Management and Logistics prepares graduates to perform at an advanced level in organizations that move people and/or goods via air transport.

Students in the program examine the business of aviation logistics and its role in the global supply chain. In addition, they learn techniques necessary to understand and develop an aviation logistics model for producing an accurate and effective forecast for demand of aviation services.

Students are given practical experience in the negotiating, vetting and managing of vendor and labor contracts. They also learn the economic, regulatory, political, geographical and human-centric challenges facing the industry today, including profit strategies, human-error interventions tactics and post-9/11 security legislation concerning air cargo operations.

Safety policy, risk management, assurance and safety promotion are the key focus areas, and students take an in-depth study of the concepts, principals, design, implementation and administration of aviation safety management systems. As weather events are so disruption to an aviation organization, students gain an understanding of hazardous weather and the products to predict weather impact on aviation operations.

### Fully Offered At:

- Online

## Admission Requirements

- Bachelor's degree from an accredited college or university for unconditional admissions
- Minimum 3.000 undergraduate GPA on a 4.000 point scale for unconditional admissions
- Official transcript(s)
- Goal statement
- Two letters of recommendation
- English language proficiency - all international students must provide proof of English language proficiency (unless they meet specific exceptions) by earning one of the following:
  - Minimum 525 TOEFL PBT score (paper-based version)
  - Minimum 71 TOEFL IBT score (Internet-based version)
  - Minimum 74 MELAB score
  - Minimum 6.0 IELTS score
  - Minimum 50 PTE score
  - Minimum 100 Duolingo English test score

For more information about graduate admissions, please visit the Graduate Studies website. For more information on international admission, visit the Office of Global Education website.

## Program Learning Outcomes

Graduates of this program will be able to:

1. Design, build, analyze and manage logistical systems at aviation organizations engaged in the transport of people and goods via air transport.
2. Perform management functions at an executive level overseeing the processes of an aviation organization.
3. Model and forecast logistical strategies for domestic and international aviation operations.
4. Analyze and manage safety systems, human error analysis and decision-making.

## Program Requirements

### Major Requirements

Code	Title	Credit Hours
<b>Major Requirements</b>		
AERN 65091	SEMINAR IN EMERGING ISSUES IN AVIATION LOGISTICS	2
AERN 65100	LOGISTICAL STRATEGIES IN AVIATION MANAGEMENT	2
AERN 65150	LEGAL AND REGULATORY ISSUES FOR AIR CARGO MANAGEMENT	2
AERN 65200	AVIATION ECONOMICS AND FISCAL MANAGEMENT	2
AERN 65230	MODELING AND FORECASTING FOR AVIATION LOGISTICS PLANNING	2
MIS 64005	ANALYTICS FOR DECISION MAKING	2
MIS 64041	OPERATIONS, SERVICE AND SUPPLY CHAIN MANAGEMENT	2
MIS 64042	GLOBALIZATION AND TECHNOLOGY STRATEGY	2
ENGR 60001	QUANTITATIVE METHODS IN TECHNOLOGY	3
ENGR 60003	SIX-SIGMA: TOOLS AND APPLICATIONS FOR TECHNOLOGY MANAGEMENT	2
ENGR 60078	RESEARCH METHODS IN TECHNOLOGY	3
Major Electives, choose from the following: <sup>1</sup>		2-6
AERN 65092	PRACTICUM IN AERONAUTICS <sup>2</sup>	
AERN 65201	AVIATION INDUSTRY CONTRACT MANAGEMENT	
AERN 65235	HUMAN ERROR ANALYSIS IN AVIATION	
AERN 65240	AVIATION SAFETY MANAGEMENT SYSTEMS	
AERN 65300	AIRLINE TRANSPORTATION OPERATIONS	
AERN 65301	AIR CARGO SECURITY	
AERN 65400	WEATHER FOR AVIATION LOGISTICS PLANNING <sup>1</sup>	
AERN 65496	INDIVIDUAL INVESTIGATION IN AERONAUTICS <sup>2</sup>	
AERN 65499	CAPSTONE IN AERONAUTICS	
MIS 64158	LEADERSHIP AND MANAGERIAL ASSESSMENT	
or MIS 64271	HUMAN RESOURCE MANAGEMENT	
or MKTG 65051	MARKETING MANAGEMENT	
Culminating Requirement, choose from the following: <sup>3</sup>		2-6
AERN 65199	THESIS I <sup>4</sup>	
AERN 65499	CAPSTONE IN AERONAUTICS <sup>4</sup>	
General Electives		1
Minimum Total Credit Hours:		33

<sup>1</sup> Students with no previous aviation weather experience are required to take AERN 65400 as an elective. Minimum credit hours for electives depends on meeting total 33 credit hours for degree.

<sup>2</sup> Maximum 6 credit hours of AERN 65092 and AERN 65496, combined, may be applied toward degree.

<sup>3</sup> For the culminating requirement, students select either the thesis or capstone. Students selecting the thesis may be planning to advance to a doctorate or are interested specifically in research. The capstone consists of a scholarly paper or project that integrates knowledge attained through coursework and research experience. Students may undertake original empirical research, case studies, reports or research results, theoretical or applied designs of logistical systems. The capstone may include improvements on existing systems or completion of a project from an identified client. Students are engaged in workplace or internship applications of the capstone or empirical analysis of an aviation management and logistics system.

<sup>4</sup> Students selecting the thesis option must continually register for AERN 65199 for maximum 6 credit hours toward the degree (students may need to register for AERN 65299 to complete the thesis requirement; however, those credit hours do not, whatsoever, count toward the degree). Students selecting the capstone may be repeat the course for maximum 6 credit hours toward degree.

## Roadmap

This roadmap is a recommended semester-by-semester plan of study for this major. However, courses designated as critical (!) must be completed in the semester listed to ensure a timely graduation.

Semester One		Credits
<b>Full Semester</b>		
ENGR 60078	RESEARCH METHODS IN TECHNOLOGY	3
<b>First Eight Weeks</b>		
AERN 65091	SEMINAR IN EMERGING ISSUES IN AVIATION LOGISTICS	2
AERN 65100	LOGISTICAL STRATEGIES IN AVIATION MANAGEMENT	2
<b>Second Eight Weeks</b>		
AERN 65150	LEGAL AND REGULATORY ISSUES FOR AIR CARGO MANAGEMENT	2
MIS 64005	ANALYTICS FOR DECISION MAKING	2
Credit Hours		11
<b>Semester Two</b>		
<b>Full Semester</b>		
ENGR 60001	QUANTITATIVE METHODS IN TECHNOLOGY	3
ENGR 60003	SIX-SIGMA: TOOLS AND APPLICATIONS FOR TECHNOLOGY MANAGEMENT	2
General Elective		1
<b>First Eight Weeks</b>		
AERN 65200	AVIATION ECONOMICS AND FISCAL MANAGEMENT	2
AERN 65230	MODELING AND FORECASTING FOR AVIATION LOGISTICS PLANNING	2
<b>Second Eight Weeks</b>		
MIS 64041	OPERATIONS, SERVICE AND SUPPLY CHAIN MANAGEMENT	2
Credit Hours		12
<b>First Summer Term</b>		
MIS 64042	GLOBALIZATION AND TECHNOLOGY STRATEGY	2
Elective Courses		2-6
Credit Hours		4

### Semester Three

AERN 65199	THESIS I	2-6
or	or CAPSTONE IN AERONAUTICS	
AERN 65499		
Credit Hours		6
Minimum Total Credit Hours:		33

## Aviation Weather - Minor

### College of Aeronautics and Engineering

Aeronautics and Technology Building

Kent Campus

330-672-2892

cae@kent.edu

www.kent.edu/cae

## Description

The Aviation Weather minor is for students wishing to gain a deeper understanding of weather and its physical and operational effect on aviation operations. Students will gain knowledge of the national weather information and forecasting system, as well as radar and satellite imagery and interpretation, weather information systems, thunderstorms and severe weather and information available to a crew in flight.

### Fully Offered At:

- Kent Campus

## Admission Requirements

Admission to a minor is open to students declared in a bachelor's degree, the A.A.B. or A.A.S. degree or the A.T.S. degree (not Individualized Program major). Students declared only in the A.A. or A.S. degree or the A.T.S. degree in Individualized Program may not declare a minor. Students may not pursue a minor and a major in the same discipline.

## Program Learning Outcomes

Graduates of this program will be able to:

- Access, interpret and apply weather tools in order to make decisions regarding aviation operations, including non-flight operations.

## Minor Requirements

Code	Title	Credit Hours
<b>Minor Requirements</b>		
AERN 25250	ELEMENTS OF AVIATION WEATHER	3
AERN 25251	WEATHER INFORMATION SYSTEMS	3
AERN 25252	THUNDERSTORMS AND SEVERE WEATHER	3
AERN 35021	RADAR SATELLITE WEATHER INFORMATION	3
AERN 35022	WEATHER STRATEGY FOR AIRCREWS	3
GEOG 31062	FUNDAMENTALS OF METEOROLOGY	3
GEOG 31064	PRINCIPLES OF CLIMATOLOGY	3
GEOG 41066	GLOBAL CLIMATE CHANGE	3
Minimum Total Credit Hours:		24

## Graduation Requirements

Minimum Minor GPA	Minimum Overall GPA
2.000	2.000

- Minimum 6 credit hours in the minor must be upper-division coursework (30000 and 40000 level).
- Minimum 6 credit hours in the minor must be outside of the course requirements for any major or other minor the student is pursuing.
- Minimum 50 percent of the total credit hours for the minor must be taken at Kent State (in residence).

## Computer Engineering Technology - B.S.

### College of Aeronautics and Engineering

Aeronautics and Technology Building  
Kent Campus  
330-672-2892  
cae@kent.edu  
www.kent.edu/cae

## Description

The Bachelor of Science degree in Computer Engineering Technology provides students with the opportunity to study computer systems and software-hardware interface so that they are capable of analyzing the problems in the computer and networking industry and producing computer engineering, networking and software solutions. The major's curriculum includes materials necessary for students to be eligible for industry certifications (e.g., Cisco, Dell, Juniper Networks) for career advancement.

Computer engineering technologists focus on hardware or software issues. When companies need custom applications and network systems designed, they call the computer engineering technologist. In this age of heavy computer usage, with companies using computers for a large variety of functions, the computer engineering technologist is invaluable in keeping equipment running, updating software, maintaining connectivity and interfacing with users.

Computer engineering technologists typically work for large companies, installing, testing, operating and maintaining the computer network ins. They may also find employment with companies that sell computers, at computer repair stores or at independent emergency repair facilities. Other common work locations include computer and peripheral manufacturing facilities, computer distribution facilities, computer research facilities and educational institutions.

### Fully Offered At:

- Kent Campus

## Accreditation

The B.S. degree in Computer Engineering Technology is accredited by the Association of Technology, Management and Applied Engineering (ATMAE).

## Admission Requirements

The university affirmatively strives to provide educational opportunities and access to students with varied backgrounds, those with special talents and adult students who graduated from high school three or more years ago.

**Freshman Students on the Kent Campus:** The freshman admission policy on the Kent Campus is selective. Admission decisions are based upon the following: cumulative grade point average, ACT and/or SAT scores, strength of high school college preparatory curriculum and grade trends. The Admissions Office at the Kent Campus may defer the admission of students who do not meet admissions criteria but who demonstrate areas of promise for successful college study. Deferred applicants may begin their college coursework at one of seven regional campuses of Kent State University. For more information on admissions, including additional requirements for some academic programs, visit the admissions website for new freshmen.

**Freshman Students on the Regional Campuses:** Kent State campuses at Ashtabula, East Liverpool, Geauga, Salem, Stark, Trumbull and Tuscarawas, as well as the Regional Academic Center in Twinsburg, have open enrollment admission for students who hold a high school diploma, GED or equivalent.

**English Language Proficiency Requirements for International Students:** All international students must provide proof of English language proficiency (unless they meet specific exceptions) by earning a minimum 525 TOEFL score (71 on the Internet-based version), minimum 75 MELAB score, minimum 6.0 IELTS score or minimum 48 PTE score, or by completing the ESL level 112 Intensive Program. For more information on international admission, visit the Office of Global Education's admission website.

**Transfer, Transitioning and Former Students:** For more information about admission criteria for transfer, transitioning and former students, please visit the admissions website.

## Program Learning Outcomes

Graduates of this program will be able to:

1. A general understanding, and a depth of knowledge in core computer engineering concepts, principles and applications.
2. An understanding of recent, current, and upcoming trends and related applications in computer engineering.
3. An acknowledgement of necessary design steps involved in making complex computer systems; and a practical understanding of the skills necessary to analyze existing systems.
4. A practical knowledge of tools and techniques to design innovative solutions from requirements specifications.
5. An understanding of the ethical issues involved with the use of computer engineering related technologies; and a clear desire to strive for the best practices.

## University Requirements

All students in a bachelor's degree program at Kent State University must complete the following university requirements for graduation.

**NOTE:** University requirements may be fulfilled in this program by specific course requirements. Please see Program Requirements for details.



Destination Kent State: First Year Experience	1
Course is not required for students with 25 transfer credits, excluding College Credit Plus, or age 21+ at time of admission.	
Diversity Domestic/Global (DIVD/DIVG)	2 courses
Students must successfully complete one domestic and one global course, of which one must be from the Kent Core.	
Experiential Learning Requirement (ELR)	varies
Students must successfully complete one course or approved experience.	
Kent Core (see table below)	36-37
Writing-Intensive Course (WIC)	1 course
Students must earn a minimum C grade in the course.	
Upper-Division Requirement	39 (or 42)
Students must successfully complete 39 upper-division (numbered 30000 to 49999) credit hours to graduate. Students in a B.A. and/or B.S. degree in the College of Arts and Sciences must complete 42 upper-division credit hours.	
Total Credit Hour Requirement	120
Some bachelor's degrees require students to complete more than 120 credit hours.	

## Kent Core Requirements

Kent Core Composition (KCOMP)	6
Kent Core Mathematics and Critical Reasoning (KMCR)	3
Kent Core Humanities and Fine Arts (KHUM/KFA) (min one course each)	9
Kent Core Social Sciences (KSS) (must be from two disciplines)	6
Kent Core Basic Sciences (KBS/KLAB) (must include one laboratory)	6-7
Kent Core Additional (KADL)	6
<b>Total Credit Hours:</b>	<b>36-37</b>

## Program Requirements

### Major Requirements

Code	Title	Credit Hours
<b>Major Requirements (courses count in major GPA)</b>		
ENGR 21020	SURVEY OF ELECTRICITY AND ELECTRONICS	3
ENGR 21022	SURVEY OF ELECTRICITY AND ELECTRONICS LABORATORY	1
ENGR 23010	COMPUTER HARDWARE	3
ENGR 26010	INTRODUCTION TO COMPUTER ENGINEERING TECHNOLOGY	3
ENGR 26200	PROGRAMMING FOR ENGINEERS I	3
ENGR 26301	NETWORKING HARDWARE I	4
ENGR 31000	CULTURAL DYNAMICS TECHNOLOGY (DIVD) (WIC)	3
ENGR 33020 or ENGR 43320	COMPUTER HARDWARE II APPLIED EMBEDDED SYSTEMS II	3
ENGR 33222	DIGITAL DESIGN FOR COMPUTER ENGINEERING	3
ENGR 33223	ELECTRONIC COMMUNICATION	3
ENGR 33320	APPLIED EMBEDDED SYSTEMS I	3
ENGR 36200	PROGRAMMING FOR ENGINEERS II	3
ENGR 36302	NETWORKING HARDWARE II	3
ENGR 36337	INFORMATION TECHNOLOGY SECURITY	3
ENGR 36620	PROJECT MANAGEMENT IN ENGINEERING AND TECHNOLOGY	3

ENGR 43222	COMPUTER HARDWARE ENGINEERING AND ARCHITECTURE	3
ENGR 46099	COMPUTER ENGINEERING TECHNOLOGY CAPSTONE	3
ENGR 46300	NETWORK SECURITY	3
ENGR 46312	WIRELESS NETWORK AND TELECOMMUNICATION SYSTEMS	3
ENGR 46316	SERVER ADMINISTRATION AND CONFIGURATION I	3
ENGR 46350	NETWORK MANAGEMENT AND DESIGN TECHNOLOGY	3

Engineering (ENGR) Upper-Division Electives (30000 or 40000 level) 6

### Additional Requirements (courses do not count in major GPA)

COMM 15000	INTRODUCTION TO HUMAN COMMUNICATION (KADL)	3
ENG 20002	INTRODUCTION TO TECHNICAL WRITING	3
MATH 11012	INTUITIVE CALCULUS (KMCR)	3
MATH 11022	TRIGONOMETRY (KMCR)	3
MGMT 24056	BUSINESS ANALYTICS I	3
MGMT 24163	PRINCIPLES OF MANAGEMENT	3
PHY 13001	GENERAL COLLEGE PHYSICS I (KBS)	4
PHY 13002	GENERAL COLLEGE PHYSICS II (KBS)	4
PHY 13021	GENERAL COLLEGE PHYSICS LABORATORY I (KBS) (KLAB)	1
PHY 13022	GENERAL COLLEGE PHYSICS LABORATORY II (KBS) (KLAB)	1
UC 10097	DESTINATION KENT STATE: FIRST YEAR EXPERIENCE	1

Kent Core Composition	6
Kent Core Humanities and Fine Arts (minimum one course from each)	9
Kent Core Social Sciences (must be from two disciplines)	6
General Electives (total credit hours depends on earning 120 credit hours, including 39 upper-division credit hours)	2

Minimum Total Credit Hours: 120

<sup>1</sup> A minimum C grade must be earned to fulfill the writing-intensive requirement.

## Graduation Requirements

Minimum Major GPA	Minimum Overall GPA
2.250	2.000

## Roadmap

This roadmap is a recommended semester-by-semester plan of study for this major. However, courses designated as critical (!) must be completed in the semester listed to ensure a timely graduation.

Semester One		Credits
ENGR 26010	INTRODUCTION TO COMPUTER ENGINEERING TECHNOLOGY	3
MATH 11022	TRIGONOMETRY (KMCR)	3
UC 10097	DESTINATION KENT STATE: FIRST YEAR EXPERIENCE	1
Kent Core Requirement		3
Kent Core Requirement		3
Kent Core Requirement		3
Credit Hours		16
Semester Two		
COMM 15000	INTRODUCTION TO HUMAN COMMUNICATION (KADL)	3
MATH 11012	INTUITIVE CALCULUS (KMCR)	3
PHY 13001	GENERAL COLLEGE PHYSICS I (KBS)	4
PHY 13021	GENERAL COLLEGE PHYSICS LABORATORY I (KBS) (KLAB)	1
Kent Core Requirement		3
Kent Core Requirement		3
Credit Hours		17
Semester Three		
ENG 20002	INTRODUCTION TO TECHNICAL WRITING	3
ENGR 23010	COMPUTER HARDWARE	3
ENGR 26200	PROGRAMMING FOR ENGINEERS I	3
PHY 13002	GENERAL COLLEGE PHYSICS II (KBS)	4
PHY 13022	GENERAL COLLEGE PHYSICS LABORATORY II (KBS) (KLAB)	1
Credit Hours		14
Semester Four		
ENGR 21020	SURVEY OF ELECTRICITY AND ELECTRONICS	3
ENGR 21022	SURVEY OF ELECTRICITY AND ELECTRONICS LABORATORY	1
ENGR 36200	PROGRAMMING FOR ENGINEERS II	3
MGMT 24163	PRINCIPLES OF MANAGEMENT	3
Kent Core Requirement		3
Kent Core Requirement		3
Credit Hours		16
Semester Five		
ENGR 26301	NETWORKING HARDWARE I	4
ENGR 33222	DIGITAL DESIGN FOR COMPUTER ENGINEERING	3
ENGR 33223	ELECTRONIC COMMUNICATION	3
ENGR 36620	PROJECT MANAGEMENT IN ENGINEERING AND TECHNOLOGY	3
Engineering (TECH) Upper-Division Electives (30000 or 40000 level)		3
Credit Hours		16
Semester Six		
ENGR 31000	CULTURAL DYNAMICS TECHNOLOGY (DIVD) (WIC)	3
ENGR 33320	APPLIED EMBEDDED SYSTEMS I	3
ENGR 36302	NETWORKING HARDWARE II	3
ENGR 36337	INFORMATION TECHNOLOGY SECURITY	3

MGMT 24056	BUSINESS ANALYTICS I	3
Credit Hours		15
Semester Seven		
ENGR 33020 or ENGR 43320	COMPUTER HARDWARE II or APPLIED EMBEDDED SYSTEMS II	3
ENGR 46300	NETWORK SECURITY	3
ENGR 46316	SERVER ADMINISTRATION AND CONFIGURATION I	3
ENGR 46350	NETWORK MANAGEMENT AND DESIGN TECHNOLOGY	3
Engineering (ENGR) Upper-Division Electives (30000 or 40000 level)		3
Credit Hours		15
Semester Eight		
ENGR 43222	COMPUTER HARDWARE ENGINEERING AND ARCHITECTURE	3
ENGR 46099	COMPUTER ENGINEERING TECHNOLOGY CAPSTONE	3
ENGR 46312	WIRELESS NETWORK AND TELECOMMUNICATION SYSTEMS	3
General Elective		2
Credit Hours		11
Minimum Total Credit Hours:		120

## Computer Engineering Technology - Minor

**College of Aeronautics and Engineering**  
Aeronautics and Technology Building  
Kent Campus  
330-672-2892  
cae@kent.edu  
www.kent.edu/cae

## Description

The Computer Engineering Technology minor provides the foundation for students to study the design of network systems, telecommunications systems, networking hardware and computer hardware engineering and architecture technologies. Students will have the opportunity to conceptualize, develop and analyze requirements engineering specifications for practical systems.

### Fully Offered At:

- Kent Campus

## Admission Requirements

Admission to a minor is open to students declared in a bachelor's degree, the A.A.B. or A.A.S. degree or the A.T.S. degree (not Individualized Program major). Students declared only in the A.A. or A.S. degree or the A.T.S. degree in Individualized Program may not declare a minor. Students may not pursue a minor and a major in the same discipline.

## Minor Requirements

Code	Title	Credit Hours
<b>Minor Requirements</b>		
ENGR 26010	INTRODUCTION TO COMPUTER ENGINEERING TECHNOLOGY	3
ENGR 26301	NETWORKING HARDWARE I	4
ENGR 36302	NETWORKING HARDWARE II	3
ENGR 43222	COMPUTER HARDWARE ENGINEERING AND ARCHITECTURE	3
ENGR 46330	VISUAL BASIC PROGRAMMING IN ENGINEERING TECHNOLOGY	3
ENGR 46350	NETWORK MANAGEMENT AND DESIGN TECHNOLOGY	3
ENGR 46411	REQUIREMENTS ENGINEERING AND ANALYSIS	3
ENGR 46312	WIRELESS NETWORK AND TELECOMMUNICATION SYSTEMS	3
Minimum Total Credit Hours:		25

## Graduation Requirements

Minimum Minor GPA	Minimum Overall GPA
2.000	2.000

- Minimum 6 credit hours in the minor must be upper-division coursework (30000 and 40000 level).
- Minimum 6 credit hours in the minor must be outside of the course requirements for any major or other minor the student is pursuing.
- Minimum 50 percent of the total credit hours for the minor must be taken at Kent State (in residence).

## Cybersecurity Engineering - B.S.

### College of Aeronautics and Engineering

Aeronautics and Technology Building

Kent Campus

330-672-2892

cae@kent.edu

www.kent.edu/cae

## Description

The Bachelor of Science degree in Cybersecurity Engineering prepares future professional engineers in the broad field of cybersecurity. The program provides students with a working knowledge of analysis and evaluation of components and systems with respect to security and to maintaining operations in the presence of risks and threats, with an emphasis on engineered systems. Students gain the understanding and skills necessary to address security issues pertaining to stakeholder needs and requirements (from a system engineering perspective) considering the lifecycle of the system from the outset. Design and development of systems, their components and associated networks to increase trustworthiness is a driving concern.

### Fully Offered At:

- Kent Campus

## Admission Requirements

Admission to the Cybersecurity Engineering major is selective.

**Freshman Students:** Admission into the Cybersecurity Engineering major requires a minimum 3.0 high school GPA and a minimum 24 ACT composite score (minimum 24 ACT sub-scores in both English and mathematics) or a minimum 1160 SAT composite score (mathematics, critical reasoning and writing); and placement directly into MATH 12002 (or its equivalent). Students who do not meet these requirements may apply for admission to the Computer Engineering Technology major and request to change their program to the Cybersecurity Engineering major after their freshman year if they meet the following criteria: minimum 3.200 overall Kent State GPA and minimum B grade in both MATH 12002 and PHY 23101.

### English Language Proficiency Requirements for International Students:

All international students must provide proof of English language proficiency (unless they meet specific exceptions) by earning a minimum 525 TOEFL score (71 on the Internet-based version), minimum 75 MELAB score, minimum 6.0 IELTS score or minimum 48 PTE Academic score, or by completing the ELS level 112 Intensive Program. For more information on international admission, visit the Office of Global Education's admission website.

**Transfer Students:** Admission into the Cybersecurity Engineering major requires a minimum 12 credit hours in college-level coursework with a minimum 3.200 overall GPA and a minimum B grade in both MATH 12002 and PHY 23101 (or their equivalents). Transfer students who have completed less than 12 credit hours of college-level coursework will be evaluated on both collegiate and high school records and must submit a final high school transcript and an ACT or SAT score.

## Program Learning Outcomes

Graduates of this program will be able to:

1. Identify, formulate and solve complex engineering problems by applying principles of engineering, science and mathematics
2. Apply engineering design to produce solutions that meet specified needs with consideration of public health, safety and welfare, as well as global, cultural, social, environmental and economic factors.
3. Communicate effectively with a range of audiences
4. Recognize ethical and professional responsibilities in engineering situations and make informed judgments, which must consider the impact of engineering solutions in a global, economic, environmental and societal context.
5. Function effectively on a team whose members together provide leadership, create a collaborative and inclusive environment, establish goals, plan tasks and meet objectives.
6. Develop and conduct appropriate experimentation, analyze and interpret data and use engineering judgment to draw conclusions.
7. Acquire and apply new knowledge as needed, using appropriate learning strategies.

## University Requirements

All students in a bachelor's degree program at Kent State University must complete the following university requirements for graduation.

**NOTE:** University requirements may be fulfilled in this program by specific course requirements. Please see Program Requirements for details.

Destination Kent State: First Year Experience	1
Course is not required for students with 25 transfer credits, excluding College Credit Plus, or age 21+ at time of admission.	
Diversity Domestic/Global (DIVD/DIVG)	2 courses
Students must successfully complete one domestic and one global course, of which one must be from the Kent Core.	
Experiential Learning Requirement (ELR)	varies
Students must successfully complete one course or approved experience.	
Kent Core (see table below)	36-37
Writing-Intensive Course (WIC)	1 course
Students must earn a minimum C grade in the course.	
Upper-Division Requirement	39 (or 42)
Students must successfully complete 39 upper-division (numbered 30000 to 49999) credit hours to graduate. Students in a B.A. and/or B.S. degree in the College of Arts and Sciences must complete 42 upper-division credit hours.	
Total Credit Hour Requirement	120
Some bachelor's degrees require students to complete more than 120 credit hours.	

## Kent Core Requirements

Kent Core Composition (KCOMP)	6
Kent Core Mathematics and Critical Reasoning (KMCR)	3
Kent Core Humanities and Fine Arts (KHUM/KFA) (min one course each)	9
Kent Core Social Sciences (KSS) (must be from two disciplines)	6
Kent Core Basic Sciences (KBS/KLAB) (must include one laboratory)	6-7
Kent Core Additional (KADL)	6
<b>Total Credit Hours:</b>	<b>36-37</b>

## Program Requirements

### Major Requirements

Code	Title	Credit Hours
<b>Major Requirements (courses count in major GPA)</b>		
CS 23001	COMPUTER SCIENCE II: DATA STRUCTURES AND ABSTRACTION	4
CS 23022	DISCRETE STRUCTURES FOR COMPUTER SCIENCE	3
CS 47207	DIGITAL FORENSICS	3
CS 47221	INTRODUCTION TO CRYPTOLOGY	3
ENGR 20000	PROFESSIONAL DEVELOPMENT IN ENGINEERING	1
ENGR 20005	INTRODUCTION TO CYBERSECURITY	3
ENGR 26301	NETWORKING HARDWARE I	4
ENGR 27100	FUNDAMENTALS OF OPERATING SYSTEMS FOR ENGINEERING	3
ENGR 33320	APPLIED EMBEDDED SYSTEMS I	3
ENGR 35500	SIGNALS AND CIRCUITS	3
ENGR 35501	SIGNALS AND CIRCUITS LABORATORY	1
ENGR 35550	LAW AND ETHICS FOR ENGINEERS	3
ENGR 36302	NETWORKING HARDWARE II	3
ENGR 36337	INFORMATION TECHNOLOGY SECURITY	3
ENGR 46300	NETWORK SECURITY	3
ENGR 46312	WIRELESS NETWORK AND TELECOMMUNICATION SYSTEMS	3

ENGR 46316	SERVER ADMINISTRATION AND CONFIGURATION I	3
ENGR 48099	ENGINEERING CAPSTONE I (ELR)	3
ENGR 48199	ENGINEERING CAPSTONE II (ELR) (WIC) <sup>1</sup>	3
Computer Programming Elective, choose from the following:		4
CS 13001	COMPUTER SCIENCE I: PROGRAMMING AND PROBLEM SOLVING	
CS 13011 & CS 13012	COMPUTER SCIENCE IA: PROCEDURAL PROGRAMMING and COMPUTER SCIENCE IB: OBJECT ORIENTED PROGRAMMING	
Major Electives, choose from the following:		6
CS 33007	INTRODUCTION TO DATABASE SYSTEM DESIGN	
CS 43401	SECURE PROGRAMMING	
CS 47206	DATA SECURITY AND PRIVACY	
ENGR 33031	PROGRAMMABLE LOGIC CONTROLLERS	
ENGR 47200	SYSTEMS ENGINEERING	

<b>Additional Requirements (courses do not count in major GPA)</b>		
COMM 15000	INTRODUCTION TO HUMAN COMMUNICATION (KADL)	3
ENG 30062	PRINCIPLES OF TECHNICAL WRITING	3
MATH 12002	ANALYTIC GEOMETRY AND CALCULUS I (KMCR)	5
MATH 12003	ANALYTIC GEOMETRY AND CALCULUS II	5
MATH 30011	BASIC PROBABILITY AND STATISTICS	3
MATH 32051	MATHEMATICAL METHODS IN THE PHYSICAL SCIENCES I	4
PHY 23101	GENERAL UNIVERSITY PHYSICS I (KBS) (KLAB)	5
PHY 23102	GENERAL UNIVERSITY PHYSICS II (KBS) (KLAB)	5
UC 10097	DESTINATION KENT STATE: FIRST YEAR EXPERIENCE	1
Kent Core Composition		6
Kent Core Humanities and Fine Arts (minimum one course from each)		9
Kent Core Social Sciences (must be from two disciplines)		6
Kent Core Additional		3
<b>Minimum Total Credit Hours:</b>		<b>123</b>

<sup>1</sup> A minimum C grade must be earned to fulfill the writing-intensive requirement.

### Graduation Requirements

Minimum Major GPA	Minimum Overall GPA
2.500	2.250

## Roadmap

This roadmap is a recommended semester-by-semester plan of study for this major. However, courses designated as critical (!) must be completed in the semester listed to ensure a timely graduation.

Semester One	Credits
COMM 15000 INTRODUCTION TO HUMAN COMMUNICATION (KADL)	3
ENGR 20005 INTRODUCTION TO CYBERSECURITY	3
MATH 12002 ANALYTIC GEOMETRY AND CALCULUS I (KMCR)	5
UC 10097 DESTINATION KENT STATE: FIRST YEAR EXPERIENCE	1

Kent Core Requirement		3
Credit Hours		15
<b>Semester Two</b>		
CS 23022	DISCRETE STRUCTURES FOR COMPUTER SCIENCE	3
MATH 12003	ANALYTIC GEOMETRY AND CALCULUS II	5
PHY 23101	GENERAL UNIVERSITY PHYSICS I (KBS) (KLAB)	5
Kent Core Requirement		3
Credit Hours		16
<b>Semester Three</b>		
ENGR 27100	FUNDAMENTALS OF OPERATING SYSTEMS FOR ENGINEERING	3
MATH 32051	MATHEMATICAL METHODS IN THE PHYSICAL SCIENCES I	4
PHY 23102	GENERAL UNIVERSITY PHYSICS II (KBS) (KLAB)	5
Computer Programming Elective		4
Credit Hours		16
<b>Semester Four</b>		
CS 23001	COMPUTER SCIENCE II: DATA STRUCTURES AND ABSTRACTION	4
ENGR 20000	PROFESSIONAL DEVELOPMENT IN ENGINEERING	1
ENGR 26301	NETWORKING HARDWARE I	4
ENGR 35500	SIGNALS AND CIRCUITS	3
ENGR 35501	SIGNALS AND CIRCUITS LABORATORY	1
Kent Core Requirement		3
Credit Hours		16
<b>Semester Five</b>		
ENG 30062	PRINCIPLES OF TECHNICAL WRITING	3
ENGR 36302	NETWORKING HARDWARE II	3
ENGR 36337	INFORMATION TECHNOLOGY SECURITY	3
MATH 30011	BASIC PROBABILITY AND STATISTICS	3
Kent Core Requirement		3
Credit Hours		15
<b>Semester Six</b>		
CS 47221	INTRODUCTION TO CRYPTOLOGY	3
ENGR 35550	LAW AND ETHICS FOR ENGINEERS	3
ENGR 46300	NETWORK SECURITY	3
Major Elective		3
Kent Core Requirement		3
Credit Hours		15
<b>Semester Seven</b>		
CS 47207	DIGITAL FORENSICS	3
ENGR 46312	WIRELESS NETWORK AND TELECOMMUNICATION SYSTEMS	3
ENGR 48099	ENGINEERING CAPSTONE I (ELR)	3
Kent Core Requirement		3
Kent Core Requirement		3
Credit Hours		15
<b>Semester Eight</b>		
ENGR 33320	APPLIED EMBEDDED SYSTEMS I	3
ENGR 46316	SERVER ADMINISTRATION AND CONFIGURATION I	3
ENGR 48199	ENGINEERING CAPSTONE II (ELR) (WIC)	3
Major Elective		3

Kent Core Requirement	3
Credit Hours	15
Minimum Total Credit Hours:	123

## Electronic Technology - Minor

### College of Aeronautics and Engineering

Aeronautics and Technology Building

Kent Campus

330-672-2892

cae@kent.edu

www.kent.edu/cae

## Description

The Electronic Technology minor gives students a basic knowledge in the use and programming of microprocessor-based circuits. It also illustrates how digital combinational and sequential circuits work, and provides students with some applications of these types of circuits. The minor complements studies in computer science, physics, instrumentation, as well as student interest in a general background on how computers work.

## Fully Offered At:

- Kent Campus

## Admission Requirements

Admission to a minor is open to students declared in a bachelor's degree, the A.A.B. or A.A.S. degree or the A.T.S. degree (not Individualized Program major). Students declared only in the A.A. or A.S. degree or the A.T.S. degree in Individualized Program may not declare a minor. Students may not pursue a minor and a major in the same discipline.

## Minor Requirements

Code	Title	Credit Hours
<b>Minor Requirements</b>		
ENGR 20004	FUNDAMENTALS OF CIRCUIT ANALYSIS	3
ENGR 33220	ELECTRONIC DEVICES	4
ENGR 33222	DIGITAL DESIGN FOR COMPUTER ENGINEERING	3
ENGR 43026	MICROPROCESSOR SYSTEMS	4
ENGR 46330	VISUAL BASIC PROGRAMMING IN ENGINEERING TECHNOLOGY	3
Minimum Total Credit Hours:		17

## Graduation Requirements

Minimum Minor GPA	Minimum Overall GPA
2.000	2.000

- Minimum 6 credit hours in the minor must be upper-division coursework (30000 and 40000 level).
- Minimum 6 credit hours in the minor must be outside of the course requirements for any major or other minor the student is pursuing.
- Minimum 50 percent of the total credit hours for the minor must be taken at Kent State (in residence).



# Engineering Technology - M.E.T.

## College of Aeronautics and Engineering

Aeronautics and Technology Building

Kent Campus

330-672-2892

cae@kent.edu

www.kent.edu/cae

## Description

The Master of Engineering Technology degree offers a curriculum that provides students with advanced technical and management knowledge and skills that meet the needs of the technical workforce in industry and business.

The Engineering Technology major comprises the following concentrations:

- The Computer Engineering Technology
- Engineering Management Technology
- Mechanical Engineering Technology
- Quality Engineering Technology

## Fully Offered At:

- Kent Campus

## Admission Requirements

- Bachelor's degree from an accredited college or university<sup>1</sup> for unconditional admissions
- Minimum 3.000 undergraduate GPA on a 4.000 point scale<sup>1</sup> for unconditional admissions
- Official transcript(s)
- Goal statement (one page) describing applicant's background, interests, and goals and how this program will help to achieve those goal
- Three letters of recommendation<sup>2</sup>
- English language proficiency - all international students must provide proof of English language proficiency (unless they meet specific exceptions) by earning one of the following:
  - Minimum 550 TOEFL PBT score (paper-based version)
  - Minimum 79 TOEFL IBT score (Internet-based version)
  - Minimum 77 MELAB score
  - Minimum 6.5 IELTS score
  - Minimum 58 PTE score
  - Minimum 100 Duolingo test score

An admissions committee of the College of Aeronautics and Engineering graduate faculty review all applications. Admission will be considered by examination of the applicant's background on an individual basis. Applicants with deficiencies may be admitted conditionally, which may include a requirement for completion of appropriate undergraduate coursework that will not count toward the master's degree.

For more information about graduate admissions, please visit the Graduate Studies admission website. For more information on international admission, visit the Office of Global Education's admission website.

<sup>1</sup> Applicants with an undergraduate degree in an approved science or technology related discipline, and who have a minimum composite undergraduate 3.000 GPA, will be admitted unconditionally. In exceptional cases, an applicant without a technical degree or with a composite GPA below 3.000 may be admitted, conditionally or unconditionally, based on strong letters of recommendation or significant experience related to the intended area of study. These applicants should submit any additional information that may assist the admissions committee in assessing their academic, technical or professional background and abilities. The additional information may include a résumé or professional portfolio summarizing any relevant technical competencies, professional experience, and any academic and professional achievements in areas related to the applicant's intended studies.

<sup>2</sup> The letters should come from an individual familiar with the applicant's academic or professional background and abilities. The letters should attest to the applicant's potential to complete graduate work successfully. Letters of recommendation from persons who are experienced professionals in the applicant's intended field of study or in a closely related area are acceptable. Recommendations from former or current professors are preferred.

## Program Learning Outcomes

Graduates of this program will be able to:

1. Apply engineering and technology management principles and practices.
2. Demonstrate knowledge of planning, organizing, decision-making and management of technology and complex systems.
3. Demonstrate the ability to apply problem solving and creative thinking skills in technical and interdisciplinary settings.
4. Demonstrate knowledge of the principles, practices and application of personal and professional ethics and conduct that arise in business, engineering and applied technology environments.
5. Understand and apply research methods, research development, research analysis and research implementation in engineering and technology-related areas.
6. Demonstrate knowledge and research design, statistical analysis and the development and implementation of applied engineering and technology in various engineering, science and technology venues.

## Program Requirements

Code	Title	Credit Hours
<b>Major Requirements</b>		
ENGR 60000	PROJECT MANAGEMENT IN A TECHNOLOGICAL ENVIRONMENT	3
ENGR 60001	QUANTITATIVE METHODS IN TECHNOLOGY	3
ENGR 60078	RESEARCH METHODS IN TECHNOLOGY	3
ENGR 67010	ETHICS, TECHNOLOGY AND THE ENVIRONMENT	3
Engineering (ENGR) Electives		3
<i>Culminating Requirement</i>		
ENGR 61099	CAPSTONE IN MECHANICAL ENGINEERING TECHNOLOGY	3
<b>Concentrations</b>		
Choose from the following:		12
Computer Engineering Technology		
Engineering Management Technology		

Mechanical Engineering Technology

Quality Engineering Technology

Minimum Total Credit Hours: 30

## Computer Engineering Technology Concentration Requirements

Code	Title	Credit Hours
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### Concentration Requirements (courses count in major GPA)

ENGR 53222	COMPUTER HARDWARE ENGINEERING AND ARCHITECTURE	3
ENGR 56312	WIRELESS NETWORK AND TELECOMMUNICATION SYSTEMS	3
ENGR 56350	NETWORK MANAGEMENT AND DESIGN TECHNOLOGY	3
ENGR 63010	COMPUTER HARDWARE	3

Minimum Total Credit Hours: 12

## Engineering Management Technology Concentration Requirements

Code	Title	Credit Hours
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### Concentration Requirements (courses count in major GPA)

ENGR 60003	SIX-SIGMA: TOOLS AND APPLICATIONS FOR TECHNOLOGY MANAGEMENT	2
ENGR 63050	TRIZ: THEORY OF INVENTIVE PROBLEM-SOLVING	3
ENGR 65700	APPLIED RELIABILITY ENGINEERING	3
ENGR 65800	BURN-IN AND STRESS-TESTING FOR RELIABILITY	3

Engineering (ENGR) Electives 1

Minimum Total Credit Hours: 12

## Mechanical Engineering Technology Concentration Requirements

Code	Title	Credit Hours
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### Concentration Requirements (courses count in major GPA)

ENGR 53700	COMPUTER INTEGRATED MANUFACTUR	3
ENGR 63041	MOTORS AND CONTROLLERS	3
ENGR 63045	MECHATRONICS	3
ENGR 63100	COMPUTER-AIDED DESIGN	3

Minimum Total Credit Hours: 12

## Quality Engineering Technology Concentration Requirements

Code	Title	Credit Hours
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### Concentration Requirements (courses count in major GPA)

ENGR 60020	QUALITY STANDARDS	3
ENGR 65500	QUALITY SYSTEMS AND INDUSTRIAL PRODUCTIVITY	3
ENGR 67220	LIFE CYCLE DESIGN I	3
ENGR 67221	LIFE CYCLE DESIGN II	3

Minimum Total Credit Hours: 12

## Innovation - Minor

### College of Aeronautics and Engineering

Aeronautics and Technology Building

Kent Campus

330-672-2892

cae@kent.edu

www.kent.edu/cae

## Description

The Innovation minor is an interdisciplinary program that addresses the need to use innovation to solve many pressing problems in manufacturing, science, business and technology.

### Fully Offered At:

- Kent Campus

## Admission Requirements

Admission to a minor is open to students declared in a bachelor's degree, the A.A.B. or A.A.S. degree or the A.T.S. degree (not Individualized Program major). Students declared only in the A.A. or A.S. degree or the A.T.S. degree in Individualized Program may not declare a minor. Students may not pursue a minor and a major in the same discipline.

## Minor Requirements

Code	Title	Credit Hours
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### Minor Requirements

ENGR 43050	INVENTIVE PROBLEM SOLVING	3
ENGR 43060	MANAGEMENT OF TECHNOLOGY INNOVATION	3
ENGR 43899	APPLIED ENGINEERING TECHNOLOGY SEMINAR	3
ENTR 27056	INTRODUCTION TO ENTREPRENEURSHIP	3
ENTR 27466	SPEAKER SERIES IN ENTREPRENEURSHIP	1
ENTR 37045	SALES IN THE ENTREPRENEURIAL VENTURE	3

Minimum Total Credit Hours: 16

## Graduation Requirements

Minimum Minor GPA	Minimum Overall GPA
2.000	2.000

- Minimum 6 credit hours in the minor must be upper-division coursework (30000 and 40000 level).
- Minimum 6 credit hours in the minor must be outside of the course requirements for any major or other minor the student is pursuing.
- Minimum 50 percent of the total credit hours for the minor must be taken at Kent State (in residence).

## Mechanical Engineering Technology - B.S.

### College of Aeronautics and Engineering

Aeronautics and Technology Building

Kent Campus

330-672-2892

cae@kent.edu

www.kent.edu/cae

## Description

The Bachelor of Science degree in Mechanical Engineering Technology teaches design, operation, installation, maintenance and analysis of machinery. The program prepares students to become highly technical professionals in current and emerging fields using mechanical and computer-aided engineering. Students learn to develop innovative solutions to problems encountered in manufacturing.

### Fully Offered At:

- Kent Campus

## Admission Requirements

The university affirmatively strives to provide educational opportunities and access to students with varied backgrounds, those with special talents and adult students who graduated from high school three or more years ago.

**Freshman Students on the Kent Campus:** The freshman admission policy on the Kent Campus is selective. Admission decisions are based upon the following: cumulative grade point average, ACT and/or SAT scores, strength of high school college preparatory curriculum and grade trends. The Admissions Office at the Kent Campus may defer the admission of students who do not meet admissions criteria but who demonstrate areas of promise for successful college study. Deferred applicants may begin their college coursework at one of seven regional campuses of Kent State University. For more information on admissions, including additional requirements for some academic programs, visit the admissions website for new freshmen.

**Freshman Students on the Regional Campuses:** Kent State campuses at Ashtabula, East Liverpool, Geauga, Salem, Stark, Trumbull and Tuscarawas, as well as the Regional Academic Center in Twinsburg, have open enrollment admission for students who hold a high school diploma, GED or equivalent.

**English Language Proficiency Requirements for International Students:** All international students must provide proof of English language proficiency (unless they meet specific exceptions) by earning a minimum 525 TOEFL score (71 on the Internet-based version), minimum 75 MELAB score, minimum 6.0 IELTS score or minimum 48 PTE score, or by completing the ESL level 112 Intensive Program. For more information on international admission, visit the Office of Global Education's admission website.

**Transfer, Transitioning and Former Students:** For more information about admission criteria for transfer, transitioning and former students, please visit the admissions website.

## Program Learning Outcomes

Graduates of this program will be able to:

1. Use the techniques, skill and modern engineering tools necessary for engineering practice.
2. Apply knowledge of mathematics, science and engineering.
3. Design a system, component or process to meet desired needs within realistic constraints, such as economic, environmental,

social, political, ethical, health and safety, manufacturability and sustainability.

## University Requirements

All students in a bachelor's degree program at Kent State University must complete the following university requirements for graduation.

**NOTE:** University requirements may be fulfilled in this program by specific course requirements. Please see Program Requirements for details.

Destination Kent State: First Year Experience	1
Course is not required for students with 25 transfer credits, excluding College Credit Plus, or age 21+ at time of admission.	
Diversity Domestic/Global (DIVD/DIVG)	2 courses
Students must successfully complete one domestic and one global course, of which one must be from the Kent Core.	
Experiential Learning Requirement (ELR)	varies
Students must successfully complete one course or approved experience.	
Kent Core (see table below)	36-37
Writing-Intensive Course (WIC)	1 course
Students must earn a minimum C grade in the course.	
Upper-Division Requirement	39 (or 42)
Students must successfully complete 39 upper-division (numbered 30000 to 49999) credit hours to graduate. Students in a B.A. and/or B.S. degree in the College of Arts and Sciences must complete 42 upper-division credit hours.	
Total Credit Hour Requirement	120
Some bachelor's degrees require students to complete more than 120 credit hours.	

## Kent Core Requirements

Kent Core Composition (KCMP)	6
Kent Core Mathematics and Critical Reasoning (KMCR)	3
Kent Core Humanities and Fine Arts (KHUM/KFA) (min one course each)	9
Kent Core Social Sciences (KSS) (must be from two disciplines)	6
Kent Core Basic Sciences (KBS/KLAB) (must include one laboratory)	6-7
Kent Core Additional (KADL)	6
<b>Total Credit Hours:</b>	<b>36-37</b>

## Program Requirements

### Major Requirements

Code	Title	Credit Hours
<b>Major Requirements (courses count in major GPA)</b>		
ENGR 13585	COMPUTER AIDED ENGINEERING GRAPHICS	3
ENGR 20001	ENERGY/POWER	3
ENGR 20002	MATERIALS AND PROCESSES	3
ENGR 21020	SURVEY OF ELECTRICITY AND ELECTRONICS	3
ENGR 21022	SURVEY OF ELECTRICITY AND ELECTRONICS LABORATORY	1
ENGR 23585	ADVANCED COMPUTER AIDED DESIGN	3
ENGR 26010	INTRODUCTION TO COMPUTER ENGINEERING TECHNOLOGY	3
ENGR 26200	PROGRAMMING FOR ENGINEERS I	3

ENGR 31000	CULTURAL DYNAMICS TECHNOLOGY (DIVD) (WIC)	3
ENGR 33031	PROGRAMMABLE LOGIC CONTROLLERS	3
ENGR 33033	HYDRAULICS/PNEUMATICS	3
ENGR 33111	STATICS AND STRENGTH OF MATERIALS	3
ENGR 33333	INDUSTRIAL ROBOTICS	3
ENGR 33363	MATERIALS SCIENCE AND TECHNOLOGY	3
ENGR 36200	PROGRAMMING FOR ENGINEERS II	3
ENGR 43080	INDUSTRIAL AND ENVIRONMENTAL SAFETY	3
ENGR 43550	COMPUTER-AIDED MANUFACTURING	3
ENGR 43580	COMPUTER-AIDED MACHINE DESIGN	3
ENGR 43899	APPLIED ENGINEERING TECHNOLOGY SEMINAR	3
Technical Electives, choose from the following:		12
ENGR 31065	CAST METALS	
ENGR 33040	CONTROL SYSTEMS	
ENGR 43030	MECHATRONICS	
ENGR 43031	MECHATRONICS II	
ENGR 43096	INDIVIDUAL INVESTIGATION IN APPLIED SCIENCE AND TECHNOLOGY	
ENGR 43700	COMPUTER-INTEGRATED MANUFACTURING	
ENGR 47200	SYSTEMS ENGINEERING	
ENGR 47210	SUSTAINABLE ENERGY I	
ENGR 47211	SUSTAINABLE ENERGY II	
<b>Additional Requirements (courses do not count in major GPA)</b>		
ACCT 23020	INTRODUCTION TO FINANCIAL ACCOUNTING	3
CHEM 10050	FUNDAMENTALS OF CHEMISTRY (KBS)	3
COMM 15000	INTRODUCTION TO HUMAN COMMUNICATION (KADL)	3
ECON 22060	PRINCIPLES OF MICROECONOMICS (KSS)	3
ENG 20002	INTRODUCTION TO TECHNICAL WRITING	3
MATH 11022	TRIGONOMETRY (KMCR)	3
MATH 12002	ANALYTIC GEOMETRY AND CALCULUS I (KMCR)	5
PHY 13001	GENERAL COLLEGE PHYSICS I (KBS)	4
PHY 13002	GENERAL COLLEGE PHYSICS II (KBS)	4
PHY 13021	GENERAL COLLEGE PHYSICS LABORATORY I (KBS) (KLAB)	1
PHY 13022	GENERAL COLLEGE PHYSICS LABORATORY II (KBS) (KLAB)	1
UC 10097	DESTINATION KENT STATE: FIRST YEAR EXPERIENCE	1
Kent Core Composition		6
Kent Core Humanities and Fine Arts (minimum one course from each)		9
Kent Core Social Sciences (cannot be ECON)		3
General Elective (total credit hours depends on earning 120 credit hours, including 39 upper-division credit hours)		1
Minimum Total Credit Hours:		120

<sup>1</sup> A minimum C grade must be earned to fulfill the writing-intensive requirement.

## Graduation Requirements

Minimum Major GPA	Minimum Overall GPA
2.250	2.000

## Roadmap

This roadmap is a recommended semester-by-semester plan of study for this major. However, courses designated as critical (!) must be completed in the semester listed to ensure a timely graduation.

Semester One		Credits
ENGR 13585	COMPUTER AIDED ENGINEERING GRAPHICS	3
ENGR 26010	INTRODUCTION TO COMPUTER ENGINEERING TECHNOLOGY	3
MATH 11022	TRIGONOMETRY (KMCR)	3
UC 10097	DESTINATION KENT STATE: FIRST YEAR EXPERIENCE	1
Kent Core Requirement		3
Kent Core Requirement		3
Credit Hours		16
Semester Two		Credits
COMM 15000	INTRODUCTION TO HUMAN COMMUNICATION (KADL)	3
ENGR 23585	ADVANCED COMPUTER AIDED DESIGN	3
MATH 12002	ANALYTIC GEOMETRY AND CALCULUS I (KMCR)	5
PHY 13001	GENERAL COLLEGE PHYSICS I (KBS)	4
PHY 13021	GENERAL COLLEGE PHYSICS LABORATORY I (KBS) (KLAB)	1
Credit Hours		16
Semester Three		Credits
ECON 22060	PRINCIPLES OF MICROECONOMICS (KSS)	3
ENGR 20002	MATERIALS AND PROCESSES	3
PHY 13002	GENERAL COLLEGE PHYSICS II (KBS)	4
PHY 13022	GENERAL COLLEGE PHYSICS LABORATORY II (KBS) (KLAB)	1
Kent Core Requirement		3
Credit Hours		14
Semester Four		Credits
ACCT 23020	INTRODUCTION TO FINANCIAL ACCOUNTING	3
ENG 20002	INTRODUCTION TO TECHNICAL WRITING	3
ENGR 21020	SURVEY OF ELECTRICITY AND ELECTRONICS	3
ENGR 21022	SURVEY OF ELECTRICITY AND ELECTRONICS LABORATORY	1
ENGR 26200	PROGRAMMING FOR ENGINEERS I	3
Kent Core Requirement		3
Credit Hours		16
Semester Five		Credits
CHEM 10050	FUNDAMENTALS OF CHEMISTRY (KBS)	3
ENGR 20001	ENERGY/POWER	3
ENGR 33111	STATICS AND STRENGTH OF MATERIALS	3
ENGR 33031	PROGRAMMABLE LOGIC CONTROLLERS	3
ENGR 36200	PROGRAMMING FOR ENGINEERS II	3
Credit Hours		15
Semester Six		Credits
ENGR 31000	CULTURAL DYNAMICS TECHNOLOGY (DIVD) (WIC)	3
ENGR 33033	HYDRAULICS/PNEUMATICS	3
ENGR 33363	MATERIALS SCIENCE AND TECHNOLOGY	3
Technical Electives		6
Credit Hours		15
Semester Seven		Credits
ENGR 33333	INDUSTRIAL ROBOTICS	3

ENGR 43550	COMPUTER-AIDED MANUFACTURING	3
ENGR 43580	COMPUTER-AIDED MACHINE DESIGN	3
Kent Core Requirement		3
Kent Core Requirement		3
Credit Hours		15
Semester Eight		Credits
ENGR 43080	INDUSTRIAL AND ENVIRONMENTAL SAFETY	3
ENGR 43899	APPLIED ENGINEERING TECHNOLOGY SEMINAR	3
Technical Electives		6
General Elective		1
Credit Hours		13
Minimum Total Credit Hours:		120

## Mechatronics Engineering - B.S.

### College of Aeronautics and Engineering

Aeronautics and Technology Building

Kent Campus

330-672-2892

cae@kent.edu

www.kent.edu/cae

## Description

The Bachelor of Science degree in Mechatronics Engineering integrates mechanical, electrical, computer and controls engineering to understand automated machinery, specifically, how to design it and how to make it work. Mechatronics engineering revolves around the design, construction and operation of automated systems, robots and intelligent products, which result from the integration of software and hardware.

Using automated systems is becoming more popular for operating equipment or machinery on manufacturing lines, boilers and aircraft to reduce labor costs, increase precision and accuracy and provide quality and safety for workers. Mechatronic devices can be found in agriculture, hospitals, buildings, homes, automobiles, manufacturing plants, the toy and entertainment industry and in aids for the elderly and disabled.

### Fully Offered At:

- Kent Campus

## Admission Requirements

The university affirmatively strives to provide educational opportunities and access to students with varied backgrounds, those with special talents and adult students who graduated from high school three or more years ago.

Admission to the Mechatronics Engineering major is selective.

**Freshman Students:** Admission into the Mechatronics Engineering major requires a minimum 3.0 high school GPA and a minimum 24 ACT composite score (minimum 24 ACT sub-scores in both English and mathematics) or a minimum 1160 SAT composite score (mathematics, critical reasoning and writing); and placement directly into MATH 12002 (or its equivalent).

Students who do not meet these requirements may apply for admission to the Mechatronics Engineering Technology major and request to change their program to the Mechatronics Engineering major after



their freshman year if they meet the following criteria: minimum 3.200 overall Kent State GPA and minimum B grade in both MATH 12002 and PHY 23101.

#### English Language Proficiency Requirements for International Students:

All international students must provide proof of English language proficiency (unless they meet specific exceptions) by earning a minimum 525 TOEFL score (71 on the Internet-based version), minimum 75 MELAB score, minimum 6.0 IELTS score or minimum 48 PTE Academic score, or by completing the ELS level 112 Intensive Program. For more information on international admission, visit the Office of Global Education's admission website.

**Transfer Students:** Admission into the Mechatronics Engineering major requires a minimum 12 credit hours in college-level coursework with a minimum 3.200 overall GPA and a minimum B grade in both MATH 12002 and PHY 23101 (or their equivalents). Transfer students who have completed less than 12 credit hours of college-level coursework will be evaluated on both collegiate and high school records and must submit a final high school transcript and an ACT or SAT score.

## Program Learning Outcomes

Graduates of this program will be able to:

1. Apply knowledge of mathematics, science and engineering
2. Design a system, component or process to meet desired needs within realistic constraints, such as economic, environmental, social, political, ethical, health and safety, manufacturing and sustainability
3. Use the techniques, skills and modern engineering tools necessary for engineering practice.

## University Requirements

All students in a bachelor's degree program at Kent State University must complete the following university requirements for graduation.

**NOTE:** University requirements may be fulfilled in this program by specific course requirements. Please see Program Requirements for details.

Destination Kent State: First Year Experience	1
Course is not required for students with 25 transfer credits, excluding College Credit Plus, or age 21+ at time of admission.	
Diversity Domestic/Global (DIVD/DIVG)	2 courses
Students must successfully complete one domestic and one global course, of which one must be from the Kent Core.	
Experiential Learning Requirement (ELR)	varies
Students must successfully complete one course or approved experience.	
Kent Core (see table below)	36-37
Writing-Intensive Course (WIC)	1 course
Students must earn a minimum C grade in the course.	
Upper-Division Requirement	39 (or 42)
Students must successfully complete 39 upper-division (numbered 30000 to 49999) credit hours to graduate. Students in a B.A. and/or B.S. degree in the College of Arts and Sciences must complete 42 upper-division credit hours.	
Total Credit Hour Requirement	120
Some bachelor's degrees require students to complete more than 120 credit hours.	

## Kent Core Requirements

Kent Core Composition (KCMP)	6
Kent Core Mathematics and Critical Reasoning (KMCR)	3
Kent Core Humanities and Fine Arts (KHUM/KFA) (min one course each)	9
Kent Core Social Sciences (KSS) (must be from two disciplines)	6
Kent Core Basic Sciences (KBS/KLAB) (must include one laboratory)	6-7
Kent Core Additional (KADL)	6
<b>Total Credit Hours:</b>	<b>36-37</b>

## Program Requirements

### Major Requirements

Code	Title	Credit Hours
<b>Major Requirements (courses count in major GPA)</b>		
ENGR 15300	INTRODUCTION TO ENGINEERING ANALYSIS USING MATLAB®	2
ENGR 13585	COMPUTER AIDED ENGINEERING GRAPHICS	3
ENGR 20002	MATERIALS AND PROCESSES	3
ENGR 20004	FUNDAMENTALS OF CIRCUIT ANALYSIS	3
ENGR 26010	INTRODUCTION TO COMPUTER ENGINEERING TECHNOLOGY	3
ENGR 26200	PROGRAMMING FOR ENGINEERS I	3
ENGR 33031	PROGRAMMABLE LOGIC CONTROLLERS	3
ENGR 33033	HYDRAULICS/PNEUMATICS	3
ENGR 33040	CONTROL SYSTEMS	3
ENGR 33092	COOPERATIVE EDUCATION - PROFESSIONAL DEVELOPMENT (ELR) (WIC)	1-3
ENGR 33220	ELECTRONIC DEVICES	4
ENGR 33222	DIGITAL DESIGN FOR COMPUTER ENGINEERING	3
ENGR 33363	MATERIALS SCIENCE AND TECHNOLOGY	3
ENGR 36200	PROGRAMMING FOR ENGINEERS II	3
ENGR 37666	KINEMATICS AND DYNAMICS OF MAC	3
ENGR 42111	STRENGTH OF MATERIALS FOR ENGINEERS	3
ENGR 43030	MECHATRONICS	3
ENGR 43031	MECHATRONICS II	3
ENGR 43220	ELECTRICAL MACHINERY	3
ENGR 43580	COMPUTER-AIDED MACHINE DESIGN	3
ENGR 47200	SYSTEMS ENGINEERING	3
<b>Additional Requirements (courses do not count in major GPA)</b>		
COMM 15000	INTRODUCTION TO HUMAN COMMUNICATION (KADL)	3
MATH 12002	ANALYTIC GEOMETRY AND CALCULUS I (KMCR)	5
MATH 12003	ANALYTIC GEOMETRY AND CALCULUS II	5
MATH 32051	MATHEMATICAL METHODS IN THE PHYSICAL SCIENCES I	4
MATH 32052	MATHEMATICAL METHODS IN THE PHYSICAL SCIENCES II	4
PHY 23101	GENERAL UNIVERSITY PHYSICS I (KBS) (KLAB)	5
PHY 23102	GENERAL UNIVERSITY PHYSICS II (KBS) (KLAB)	5
UC 10097	DESTINATION KENT STATE: FIRST YEAR EXPERIENCE	1
Kent Core Composition		6

Kent Core Humanities and Fine Arts (minimum one course from each)	9
Kent Core Social Sciences (must be from two disciplines)	6
Kent Core Additional	3
Engineering (ENGR) Elective	4
<hr/>	
Minimum Total Credit Hours:	121

<sup>1</sup> A minimum C grade must be earned to fulfill the writing-intensive requirement.

## Graduation Requirements

Minimum Major GPA	Minimum Overall GPA
2.250	2.000

## Roadmap

This roadmap is a recommended semester-by-semester plan of study for this major. However, courses designated as critical (!) must be completed in the semester listed to ensure a timely graduation.

Semester One		Credits
ENGR 13585	COMPUTER AIDED ENGINEERING GRAPHICS	3
ENGR 20002	MATERIALS AND PROCESSES	3
MATH 12002	ANALYTIC GEOMETRY AND CALCULUS I (KMCR)	5
UC 10097	DESTINATION KENT STATE: FIRST YEAR EXPERIENCE	1
Kent Core Requirement		3
Credit Hours		15
Semester Two		Credits
ENGR 26010	INTRODUCTION TO COMPUTER ENGINEERING TECHNOLOGY	3
MATH 12003	ANALYTIC GEOMETRY AND CALCULUS II	5
PHY 23101	GENERAL UNIVERSITY PHYSICS I (KBS) (KLAB)	5
Kent Core Requirement		3
Credit Hours		16
Semester Three		Credits
ENGR 15300	INTRODUCTION TO ENGINEERING ANALYSIS USING MATLAB®	2
ENGR 42111	STRENGTH OF MATERIALS FOR ENGINEERS	3
MATH 32051	MATHEMATICAL METHODS IN THE PHYSICAL SCIENCES I	4
PHY 23102	GENERAL UNIVERSITY PHYSICS II (KBS) (KLAB)	5
Credit Hours		14
Semester Four		Credits
COMM 15000	INTRODUCTION TO HUMAN COMMUNICATION (KADL)	3
ENGR 20004	FUNDAMENTALS OF CIRCUIT ANALYSIS	3
ENGR 37666	KINEMATICS AND DYNAMICS OF MAC	3
MATH 32052	MATHEMATICAL METHODS IN THE PHYSICAL SCIENCES II	4
Kent Core Requirement		3
Credit Hours		16
Semester Five		Credits
ENGR 33031	PROGRAMMABLE LOGIC CONTROLLERS	3
ENGR 33033	HYDRAULICS/PNEUMATICS	3
ENGR 33220	ELECTRONIC DEVICES	4
Kent Core Requirement		3
Engineering (ENGR) Elective		4
Credit Hours		17
Semester Six		Credits
ENGR 26200	PROGRAMMING FOR ENGINEERS I	3
ENGR 33040	CONTROL SYSTEMS	3
ENGR 33363	MATERIALS SCIENCE AND TECHNOLOGY	3
ENGR 43580	COMPUTER-AIDED MACHINE DESIGN	3
Kent Core Requirement		3
Credit Hours		15
Semester Seven		Credits
ENGR 33222	DIGITAL DESIGN FOR COMPUTER ENGINEERING	3
ENGR 36200	PROGRAMMING FOR ENGINEERS II	3
ENGR 43030	MECHATRONICS	3
ENGR 47200	SYSTEMS ENGINEERING	3

Kent Core Requirement		3
Credit Hours		15
Semester Eight		Credits
ENGR 33092	COOPERATIVE EDUCATION - PROFESSIONAL DEVELOPMENT (ELR) (WIC)	1-3
ENGR 43031	MECHATRONICS II	3
ENGR 43220	ELECTRICAL MACHINERY	3
Kent Core Requirement		3
Kent Core Requirement		3
Credit Hours		13
Minimum Total Credit Hours:		121

## Mechatronics Engineering Technology - B.S.

### College of Aeronautics and Engineering

Aeronautics and Technology Building

Kent Campus

330-672-2892

cae@kent.edu

www.kent.edu/cae

## Description

The Bachelor of Science degree in Mechatronics Engineering Technology integrates mechanical, electrical, computer and controls. Mechatronics engineering technology revolves around the design, construction and operation of automated systems, robots and intelligent products, which result from the integration of software and hardware.

Using automated systems is becoming more popular for operating equipment/machinery in a host of situations, including on assembly and manufacturing lines, on automobiles and aircraft and in electrical power generations to reduce labor costs, increase precision and accuracy and provide quality and safety for workers.

Graduates from the mechatronics engineering technology program manage and support the design, operation and analysis of mechanical and electrical devices connected with automated systems, robots and computer-integrated manufacturing. They can work in any company that develops, designs or manufactures and markets these devices. Opportunities exist in manufacturing sales as well as research.

### Fully Offered At:

- Kent Campus

## Admission Requirements

The university affirmatively strives to provide educational opportunities and access to students with varied backgrounds, those with special talents and adult students who graduated from high school three or more years ago.

**Freshman Students on the Kent Campus:** The freshman admission policy on the Kent Campus is selective. Admission decisions are based upon the following: cumulative grade point average, ACT and/or SAT scores, strength of high school college preparatory curriculum and grade trends. The Admissions Office at the Kent Campus may defer the admission of students who do not meet admissions criteria but who demonstrate areas of promise for successful college study. Deferred

applicants may begin their college coursework at one of seven regional campuses of Kent State University. For more information on admissions, including additional requirements for some academic programs, visit the admissions website for new freshmen.

**Freshman Students on the Regional Campuses:** Kent State campuses at Ashtabula, East Liverpool, Geauga, Salem, Stark, Trumbull and Tuscarawas, as well as the Regional Academic Center in Twinsburg, have open enrollment admission for students who hold a high school diploma, GED or equivalent.

**English Language Proficiency Requirements for International Students:** All international students must provide proof of English language proficiency (unless they meet specific exceptions) by earning a minimum 525 TOEFL score (71 on the Internet-based version), minimum 75 MELAB score, minimum 6.0 IELTS score or minimum 48 PTE score, or by completing the ESL level 112 Intensive Program. For more information on international admission, visit the Office of Global Education's admission website.

**Transfer, Transitioning and Former Students:** For more information about admission criteria for transfer, transitioning and former students, please visit the admissions website.

## Program Learning Outcomes

Graduates of this program will be able to:

1. Select and apply a knowledge of mathematics, science, engineering and technology to engineering technology problems that require the application of principles and applied procedures or methodologies.
2. Design systems, components or processes for broadly defined engineering technology problems.
3. Select and apply the knowledge, techniques, skills, and modern tools of the discipline to broadly defined engineering technology activities.

## University Requirements

All students in a bachelor's degree program at Kent State University must complete the following university requirements for graduation.

**NOTE:** University requirements may be fulfilled in this program by specific course requirements. Please see Program Requirements for details.

Destination Kent State: First Year Experience	1
Course is not required for students with 25 transfer credits, excluding College Credit Plus, or age 21+ at time of admission.	
Diversity Domestic/Global (DIVD/DIVG)	2 courses
Students must successfully complete one domestic and one global course, of which one must be from the Kent Core.	
Experiential Learning Requirement (ELR)	varies
Students must successfully complete one course or approved experience.	
Kent Core (see table below)	36-37
Writing-Intensive Course (WIC)	1 course
Students must earn a minimum C grade in the course.	
Upper-Division Requirement	39 (or 42)
Students must successfully complete 39 upper-division (numbered 30000 to 49999) credit hours to graduate. Students in a B.A. and/or B.S. degree in the College of Arts and Sciences must complete 42 upper-division credit hours.	
Total Credit Hour Requirement	120

Some bachelor's degrees require students to complete more than 120 credit hours.

## Kent Core Requirements

Kent Core Composition (KCMP)	6
Kent Core Mathematics and Critical Reasoning (KMCR)	3
Kent Core Humanities and Fine Arts (KHUM/KFA) (min one course each)	9
Kent Core Social Sciences (KSS) (must be from two disciplines)	6
Kent Core Basic Sciences (KBS/KLAB) (must include one laboratory)	6-7
Kent Core Additional (KADL)	6
<b>Total Credit Hours:</b>	<b>36-37</b>

## Program Requirements

### Major Requirements

Code	Title	Credit Hours
<b>Major Requirements (courses count in major GPA)</b>		
ENGR 13585	COMPUTER AIDED ENGINEERING GRAPHICS	3
ENGR 20002	MATERIALS AND PROCESSES	3
ENGR 21020	SURVEY OF ELECTRICITY AND ELECTRONICS	3
ENGR 21022	SURVEY OF ELECTRICITY AND ELECTRONICS LABORATORY	1
ENGR 23585	ADVANCED COMPUTER AIDED DESIGN	3
ENGR 26010	INTRODUCTION TO COMPUTER ENGINEERING TECHNOLOGY	3
ENGR 26200	PROGRAMMING FOR ENGINEERS I	3
ENGR 31000	CULTURAL DYNAMICS TECHNOLOGY (DIVD) (WIC)	3
ENGR 31010	ENGINEERING AND PROFESSIONAL ETHICS	3
ENGR 33031	PROGRAMMABLE LOGIC CONTROLLERS	3
ENGR 33032	PROGRAMMABLE LOGIC CONTROLLERS II	3
ENGR 33033	HYDRAULICS/PNEUMATICS	3
ENGR 33040	CONTROL SYSTEMS	3
ENGR 33092	COOPERATIVE EDUCATION - PROFESSIONAL DEVELOPMENT (ELR) (WIC)	3
ENGR 33111	STATICS AND STRENGTH OF MATERIALS	3
ENGR 33222	DIGITAL DESIGN FOR COMPUTER ENGINEERING	3
ENGR 33333	INDUSTRIAL ROBOTICS	3
ENGR 33700	QUALITY TECHNIQUES	3
ENGR 36200	PROGRAMMING FOR ENGINEERS II	3
ENGR 43030	MECHATRONICS	3
ENGR 43031	MECHATRONICS II	3
ENGR 43060	MANAGEMENT OF TECHNOLOGY INNOVATION	3
ENGR 43080	INDUSTRIAL AND ENVIRONMENTAL SAFETY	3
ENGR 43580	COMPUTER-AIDED MACHINE DESIGN	3
Engineering (ENGR) Upper-Division Electives (30000 or 40000 level)		3
<b>Additional Requirements (courses do not count in major GPA)</b>		
COMM 15000	INTRODUCTION TO HUMAN COMMUNICATION (KADL)	3
ECON 22060	PRINCIPLES OF MICROECONOMICS (KSS)	3
MATH 12002	ANALYTIC GEOMETRY AND CALCULUS I (KMCR)	5
PHY 13001	GENERAL COLLEGE PHYSICS I (KBS)	4
PHY 13002	GENERAL COLLEGE PHYSICS II (KBS)	4

PHY 13021	GENERAL COLLEGE PHYSICS LABORATORY I (KBS) (KLAB)	1
PHY 13022	GENERAL COLLEGE PHYSICS LABORATORY II (KBS) (KLAB)	1
UC 10097	DESTINATION KENT STATE: FIRST YEAR EXPERIENCE	1
Kent Core Composition		6
Kent Core Humanities and Fine Arts (minimum one course from each)		9
Kent Core Social Sciences (cannot be ECON course)		3
Kent Core Additional		3
General Electives (total credit hours depends on earning 120 credit hours, including 39 upper-division credit hours)		4
Minimum Total Credit Hours:		120

<sup>1</sup> A minimum C grade must be earned to fulfill writing-intensive requirement.

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## Graduation Requirements

Minimum Major GPA	Minimum Overall GPA
2.250	2.000



## Roadmap

This roadmap is a recommended semester-by-semester plan of study for this major. However, courses designated as critical (!) must be completed in the semester listed to ensure a timely graduation.

Semester One		Credits
COMM 15000	INTRODUCTION TO HUMAN COMMUNICATION (KADL)	3
ENGR 13585	COMPUTER AIDED ENGINEERING GRAPHICS	3
ENGR 26010	INTRODUCTION TO COMPUTER ENGINEERING TECHNOLOGY	3
UC 10097	DESTINATION KENT STATE: FIRST YEAR EXPERIENCE	1
Kent Core Requirement		3
Kent Core Requirement		3
Credit Hours		16
Semester Two		
ENGR 23585	ADVANCED COMPUTER AIDED DESIGN	3
MATH 12002	ANALYTIC GEOMETRY AND CALCULUS I (KMCR)	5
PHY 13001	GENERAL COLLEGE PHYSICS I (KBS)	4
PHY 13021	GENERAL COLLEGE PHYSICS LABORATORY I (KBS) (KLAB)	1
Kent Core Requirement		3
Credit Hours		16
Semester Three		
ECON 22060	PRINCIPLES OF MICROECONOMICS (KSS)	3
ENGR 20002	MATERIALS AND PROCESSES	3
PHY 13002	GENERAL COLLEGE PHYSICS II (KBS)	4
PHY 13022	GENERAL COLLEGE PHYSICS LABORATORY II (KBS) (KLAB)	1
Kent Core Requirement		3
Credit Hours		14
Semester Four		
ENGR 21020	SURVEY OF ELECTRICITY AND ELECTRONICS	3
ENGR 21022	SURVEY OF ELECTRICITY AND ELECTRONICS LABORATORY	1
ENGR 26200	PROGRAMMING FOR ENGINEERS I	3
ENGR 33033	HYDRAULICS/PNEUMATICS	3
Kent Core Requirement		3
Kent Core Requirement		3
Credit Hours		16
Semester Five		
ENGR 33031	PROGRAMMABLE LOGIC CONTROLLERS	3
ENGR 33092	COOPERATIVE EDUCATION - PROFESSIONAL DEVELOPMENT (ELR) (WIC)	3
ENGR 33111	STATICS AND STRENGTH OF MATERIALS	3
ENGR 36200	PROGRAMMING FOR ENGINEERS II	3
Kent Core Requirement		3
Credit Hours		15
Semester Six		
ENGR 31010	ENGINEERING AND PROFESSIONAL ETHICS	3
ENGR 33032	PROGRAMMABLE LOGIC CONTROLLERS II	3
ENGR 33040	CONTROL SYSTEMS	3
ENGR 33333	INDUSTRIAL ROBOTICS	3
Engineering (ENGR) Upper-Division Electives (30000 or 40000 level)		3
Credit Hours		15

### Semester Seven

ENGR 31000	CULTURAL DYNAMICS TECHNOLOGY (DIVD) (WIC)	3
ENGR 33222	DIGITAL DESIGN FOR COMPUTER ENGINEERING	3
ENGR 43030	MECHATRONICS	3
ENGR 43060	MANAGEMENT OF TECHNOLOGY INNOVATION	3
ENGR 43580	COMPUTER-AIDED MACHINE DESIGN	3
Credit Hours		15

### Semester Eight

ENGR 33700	QUALITY TECHNIQUES	3
ENGR 43031	MECHATRONICS II	3
ENGR 43080	INDUSTRIAL AND ENVIRONMENTAL SAFETY	3
General Electives		4
Credit Hours		13
Minimum Total Credit Hours:		120

## Professional Pilot - Minor

### College of Aeronautics and Engineering

Aeronautics and Technology Building

Kent Campus

330-672-2892

cae@kent.edu

www.kent.edu/cae

## Description

The Professional Pilot minor is for students who want to learn to fly but are not necessarily interested in a career as a professional pilot. Upon completion, students are expected to have the Commercial Pilot certificate with Instrumental rating.

### Fully Offered At:

- Kent Campus

## Admission Requirements

Admission to a minor is open to students declared in a bachelor's degree, the A.A.B. or A.A.S. degree or the A.T.S. degree (not Individualized Program major). Students declared only in the A.A. or A.S. degree or the A.T.S. degree in Individualized Program may not declare a minor. Students may not pursue a minor and a major in the same discipline.

## Program Learning Outcomes

Graduates of this program will be able to:

- Demonstrate a thorough understanding of fundamental aeronautical concepts and practices.
- Understand attributes of a modern aviation professional.
- Possess the knowledge and skills to obtain the Commercial Pilot certificate to be eligible for professional work as a commercial pilot.
- Possess the knowledge and skills to obtain a Commercial Pilot Airplane Multiengine Land with Instrument rating.

## Minor Requirements

Code	Title	Credit Hours
<b>Minor Requirements</b>		
AERN 15740	ELEMENTS OF FLIGHT THEORY	5
AERN 15741	PRIVATE PILOT FLIGHT	5
AERN 25250	ELEMENTS OF AVIATION WEATHER	3
AERN 25743	COMMERCIAL PILOT FLIGHT I	2
AERN 35644	INSTRUMENT FLIGHT THEORY	3
AERN 35645	INSTRUMENT PILOT FLIGHT	2
AERN 35647	COMMERCIAL PILOT FLIGHT II	2
AERN 35746	COMMERCIAL PILOT THEORY	2
AERN 35747	COMMERCIAL PILOT FLIGHT III	2
AERN 45653	MULTI-ENGINE PILOT FLIGHT	1
Minimum Total Credit Hours:		27

## Graduation Requirements

Minimum Minor GPA	Minimum Overall GPA
2.000	2.000

- Minimum 6 credit hours in the minor must be upper-division coursework (30000 and 40000 level).
- Minimum 6 credit hours in the minor must be outside of the course requirements for any major or other minor the student is pursuing.
- Minimum 50 percent of the total credit hours for the minor must be taken at Kent State (in residence).

## Safety, Quality and Lean in Manufacturing - Minor

### College of Aeronautics and Engineering

Aeronautics and Technology Building

Kent Campus

330-672-2892

cae@kent.edu

www.kent.edu/cae

## Description

The Safety, Quality and Lean in Manufacturing minor provide students the opportunity to study quality techniques, aspects of establishing lean enterprises and workplace safety and accident analysis.

### Fully Offered At:

Kent Campus

## Admission Requirements

Admission to a minor is open to students declared in a bachelor's degree, the A.A.B. or A.A.S. degree or the A.T.S. degree (not Individualized Program major). Students declared only in the A.A. or A.S. degree or the A.T.S. degree in Individualized Program may not declare a minor. Students may not pursue a minor and a major in the same discipline.

## Minor Requirements

Code	Title	Credit Hours
<b>Minor Requirements</b>		
AERN 45135	AVIATION SAFETY THEORY	3
CMGT 11044	CONSTRUCTION SAFETY	3
ENGR 33657	INTRODUCTION TO LEAN SIX SIGMA	3
ENGR 33700	QUALITY TECHNIQUES	3
ENGR 35765	QUALITY AND RELIABILITY ENGINEERING	3
ENGR 43080	INDUSTRIAL AND ENVIRONMENTAL SAFETY	3
Minimum Total Credit Hours:		18

## Graduation Requirements

Minimum Minor GPA	Minimum Overall GPA
2.000	2.000

- Minimum 6 credit hours in the minor must be upper-division coursework (30000 and 40000 level).
- Minimum 6 credit hours in the minor must be outside of the course requirements for any major or other minor the student is pursuing.
- Minimum 50 percent of the total credit hours for the minor must be taken at Kent State (in residence).

## Sustainability - Minor

### College of Aeronautics and Engineering

Aeronautics and Technology Building

Kent Campus

330-672-2892

cae@kent.edu

www.kent.edu/cae

## Description

The Sustainability minor provides students a basic knowledge of sustainability and allows them to address a specific area within sustainability. The minor consists of basic courses addressing the three main components of sustainability and an integrated series of advanced courses related to applications of this basic principle.

### Fully Offered At:

- Kent Campus

## Admission Requirements

Admission to a minor is open to students declared in a bachelor's degree, the A.A.B. or A.A.S. degree or the A.T.S. degree (not Individualized Program major). Students declared only in the A.A. or A.S. degree or the A.T.S. degree in Individualized Program may not declare a minor. Students may not pursue a minor and a major in the same discipline.

## Minor Requirements

Code	Title	Credit Hours
<b>Minor Requirements</b>		
ENGR 27210	INTRODUCTION TO SUSTAINABILITY	3
ENGR 33092	COOPERATIVE EDUCATION - PROFESSIONAL DEVELOPMENT (ELR) (WIC)	1-3

Basic Level Electives, choose from the following:		6
BSCI 10002	LIFE ON PLANET EARTH (KBS)	
CHEM 10030	CHEMISTRY IN OUR WORLD (KBS)	
ECON 22060	PRINCIPLES OF MICROECONOMICS (KSS)	
ENTR 27056	INTRODUCTION TO ENTREPRENEURSHIP	
GEOG 10160	INTRODUCTION TO GEOGRAPHY	
PHY 13001 & PHY 13021	GENERAL COLLEGE PHYSICS I (KBS) and GENERAL COLLEGE PHYSICS LABORATORY I (KBS) (KLAB)	
PHY 21430	FRONTIERS IN ASTRONOMY (KBS)	
MGMT 24163	PRINCIPLES OF MANAGEMENT	
SOC 12050	INTRODUCTION TO SOCIOLOGY (DIVD) (KSS)	
Advanced Level Electives, choose from the following:		9
ARCS 30421	ENVIRONMENTAL IMPERATIVES	
ECON 32084	ECONOMICS OF THE ENVIRONMENT	
FDM 35012	SUSTAINABILITY IN FASHION	
GEOG 36065	CITIES AND URBANIZATION (DIVG)	
GEOG 41073	CONSERVATION OF NATURAL RESOURCES	
MGMT 44009	THE BUSINESS CASE FOR SUSTAINABILITY	
MGMT 44062	SUPPLY CHAIN MANAGEMENT	
RPTM 36083	ENVIRONMENTAL EDUCATION AND CONSERVATION	
ENGR 47210	SUSTAINABLE ENERGY I	
ENGR 47211	SUSTAINABLE ENERGY II	
Minimum Total Credit Hours:		19

## Graduation Requirements

Minimum Minor GPA	Minimum Overall GPA
2.000	2.000

- Minimum 6 credit hours in the minor must be upper-division coursework (30000 and 40000 level).
- Minimum 6 credit hours in the minor must be outside of the course requirements for any major or other minor the student is pursuing.
- Minimum 50 percent of the total credit hours for the minor must be taken at Kent State (in residence).

## Technology - Minor

### College of Aeronautics and Engineering

Aeronautics and Technology Building  
Kent Campus  
330-672-2892  
cae@kent.edu  
www.kent.edu/cae

## Description

The Technology minor provides students with a broad introduction to the fundamentals of applied engineering.

### Fully Offered At:

- Kent Campus

## Admission Requirements

Admission to a minor is open to students declared in a bachelor's degree, the A.A.B. or A.A.S. degree or the A.T.S. degree (not Individualized Program major). Students declared only in the A.A. or A.S. degree or the A.T.S. degree in Individualized Program may not declare a minor. Students may not pursue a minor and a major in the same discipline.

## Program Learning Outcomes

Graduates of this program will be able to:

- Communicate with technical and non-technical colleagues.
- Appreciate the impact of technology on civilization.

## Minor Requirements

Code	Title	Credit Hours
<b>Minor Requirements</b>		
ENGR 20001	ENERGY/POWER	3
ENGR 20002	MATERIALS AND PROCESSES	3
ENGR 21020	SURVEY OF ELECTRICITY AND ELECTRONICS	3
ENGR 21022	SURVEY OF ELECTRICITY AND ELECTRONICS LABORATORY	1
Engineering Electives, choose from the following:		9
ENGR 31000	CULTURAL DYNAMICS TECHNOLOGY (DIVD) (WIC)	
ENGR 31016	MANUFACTURING TECHNOLOGY	
ENGR 31065	CAST METALS	
ENGR 32002	MATERIALS AND PROCESSES II	
ENGR 33031	PROGRAMMABLE LOGIC CONTROLLERS	
ENGR 33032	PROGRAMMABLE LOGIC CONTROLLERS II	
ENGR 33700	QUALITY TECHNIQUES	
ENGR 34002	ADVANCED COMPUTER-AIDED DESIGN II	
ENGR 36620	PROJECT MANAGEMENT IN ENGINEERING AND TECHNOLOGY	
ENGR 43060	MANAGEMENT OF TECHNOLOGY INNOVATION	
ENGR 43080	INDUSTRIAL AND ENVIRONMENTAL SAFETY	
ENGR 47210	SUSTAINABLE ENERGY I	
ENGR 47211	SUSTAINABLE ENERGY II	

Minimum Total Credit Hours: 19

## Graduation Requirements

Minimum Minor GPA	Minimum Overall GPA
2.000	2.000

- Minimum 6 credit hours in the minor must be upper-division coursework (30000 and 40000 level).
- Minimum 6 credit hours in the minor must be outside of the course requirements for any major or other minor the student is pursuing.
- Minimum 50 percent of the total credit hours for the minor must be taken at Kent State (in residence).

## Unmanned Aircraft Systems - Minor

### College of Aeronautics and Engineering

Aeronautics and Technology Building  
Kent Campus

330-672-2892  
cae@kent.edu  
www.kent.edu/cae

## Description

The Unmanned Aircraft Systems minor introduces students to various types of unmanned aerial systems and their increasing role in today's society. Using a systems engineering perspective, students study roles and applications of unmanned aerial systems and apply their knowledge to the development of sensors, control, communications and flight operations. Students will also become an FAA certificated drone pilot.

### Fully Offered At:

- Kent Campus

## Admission Requirements

Admission to a minor is open to students declared in a bachelor's degree, the A.A.B. or A.A.S. degree or the A.T.S. degree (not Individualized Program major). Students declared only in the A.A. or A.S. degree or the A.T.S. degree in Individualized Program may not declare a minor. Students may not pursue a minor and a major in the same discipline.

## Program Learning Outcomes

Graduates of this program will be able to:

- Analyze various aspects of unmanned aerial systems operations, including safety, certification, applications, trends, regulations and performance.
- Analyze the system components of unmanned aerial systems.
- Determine the communication and control systems necessary for unmanned aerial systems platform operations.

## Minor Requirements

Code	Title	Credit Hours
<b>Minor Requirements</b>		
AERN 25250	ELEMENTS OF AVIATION WEATHER	3
AERN 25800	INTRODUCTION TO UNMANNED AIRCRAFT SYSTEMS	3
AERN 35810	UNMANNED AIRCRAFT SYSTEMS	3
AERN 35830	UNMANNED AIRCRAFT SYSTEMS SENSING AND SENSOR SYSTEMS	3
AERN 35840	UNMANNED AIRCRAFT SYSTEMS COMMAND, CONTROL AND COMMUNICATIONS	3
AERN 45800	UNMANNED AIRCRAFT SYSTEMS FLIGHT OPERATIONS THEORY	4
Minimum Total Credit Hours:		19

## Graduation Requirement

Minimum Minor GPA	Minimum Overall GPA
2.000	2.000

- Minimum 6 credit hours in the minor must be upper-division coursework (30000 and 40000 level).
- Minimum 6 credit hours in the minor must be outside of the course requirements for any major or other minor the student is pursuing.

- Minimum 50 percent of the total credit hours for the minor must be taken at Kent State (in residence).

## College of Applied and Technical Studies

### College of Applied and Technical Studies

cats@kent.edu  
www.kent.edu/cats

### Academic Advising Offices

#### Kent State University at Ashtabula

A110 Main Hall  
Ashtabula Campus  
440-964-4217  
www.kent.edu/ashtabula/academic-advising

#### Kent State University at East Liverpool

400 E. 4th Street  
East Liverpool Campus  
330-385-3805  
www.kent.edu/columbiana/advisors-east-liverpool

#### Kent State University at Geauga

14111 Claridon-Troy Road  
Gauga Campus  
440-834-4187  
www.kent.edu/geauga/academic-advising

#### Kent State University at Salem

2491 State Route 45 South  
Salem Campus  
330-332-0361  
www.kent.edu/columbiana/advisors-salem

#### Kent State University at Stark

132 Main Hall  
Stark Campus  
330-244-3251  
www.kent.edu/stark/advising-services

#### Kent State University at Trumbull

Workforce Development Bldg.  
Trumbull Campus  
330-675-8860  
trumbulladvisor@kent.edu  
www.kent.edu/trumbull/academic-advising

#### Kent State University at Tuscarawas

Founders Hall  
Tuscarawas Campus  
330-339-3391  
www.kent.edu/tusc/academic-advising

## Mission

The Regional Campuses of Kent State University have a long standing history of providing northeast Ohioans with access to Kent State University without leaving their community. Each campus is engaged within its region and has made significant contributions to the civic, cultural, and economic well being of Northeast Ohio's communities. The

Campuses have distinguished themselves with applied programs that respond to local needs, an emphasis on workforce preparation and a commitment to providing higher education that is broadly accessible.

The Campuses carry out this mission through the efforts of a faculty committed to the highest standards in the scholarships of discovery, integration, application, teaching and university citizenship. Faculty members actively pursue a variety of creative endeavors, regularly contribute to the scholarship in their disciplines, take pride in their continuing pedagogical successes, and are recognized by the wider University community with teaching and professional development awards. Regional campus faculty are visible citizens in the communities they serve, as well as at every level of university governance.

## Undergraduate Programs

- Accounting Technology - A.A.B.
- Agribusiness - B.S.
- Associate of Arts
- Associate of Science
- Business Management Technology - A.A.B.
- Criminology and Justice Studies - A.A.S.
- Early Childhood Education Technology - A.A.S.
- Electrical/Electronic Engineering Technology - A.A.S.
- Engineering Technology - B.S.
- Enology - A.A.S.
- Environment Management - A.T.S.
- Environmental Health and Safety - A.A.S.
- Horticulture - B.A.H.
- Horticulture Technology - A.A.S.
- Human Services - A.A.S.
- Individualized Program - A.T.S.
- Information Technology - A.A.B.
- Information Technology - B.S.I.T.
- Insurance Studies - B.S.
- Legal Assisting Technology - A.A.S.
- Mechanical Engineering Technology - A.A.S.
- Nursing (A.D.N.) - A.A.S.
- Occupational Therapy Assistant Technology - A.A.S.
- Office Technology - A.A.B.
- Physical Therapist Assistant Technology - A.A.S.
- Radiologic Imaging Sciences - B.R.I.T.
- Radiologic Technology - A.A.S.
- Radiologic Technology - A.T.S.
- Respiratory Care - B.S.
- Respiratory Therapy Technology - A.A.S.
- Technical and Applied Studies - B.T.A.S.
- Technical Modeling Design - A.A.S.
- Veterinary Technology - A.A.S.
- Viticulture - A.A.S.

## Minors

- Agribusiness
- Computer Forensics and Security
- Game Design

- Help Desk Support
- Insurance Studies
- Modeling and Animation
- Software Development

## Undergraduate Certificates

- Business Management Technology
- CAD for Manufacturing
- Computer Forensics and Information Security
- Computer-Aided Drafting: Design Technician
- eBusiness
- Enology
- Entrepreneurship
- Floriculture
- Greenhouse Production
- Hospitality Management
- Medical Billing
- Office Software Applications
- Peace Officers Training Academy
- Viticulture

## College of Applied and Technical Studies Faculty

- Alicea, Megan R. (2013), Lecturer, Boise State University, 2015
- Antenucci, Robert P. (2010), Assistant Professor, Ph.D., Kent State University, 2013
- Bailey, Mistey D. (2012), Lecturer
- Baker, John J. (2012), Associate Lecturer, M.S., La Roche College, 1990
- Banks, Kathleen C. (1990), Assistant Professor, M.S.N., West Virginia University, 1985
- Barcus, Laurie D. (2005), Associate Lecturer, M.S.N., University of Phoenix, 2006
- Bears, Lorraine E. (1999), Associate Lecturer, M.Tech., Kent State University, 2004
- Beck, Stacy J. (2008), Associate Lecturer, M.P.H., Kent State University, 2004
- Berlin, Kingsly T. (2013), Associate Lecturer, B.S., The Ohio State University, 2005
- Blake, Robert M. (2003), Assistant Professor, M.S., Duke University, 1994
- Bonaduce, Samantha J. (2012), Lecturer, M.S.N., Kent State University, 2015
- Brindley, Lisa K. (1999), Senior Lecturer, M.Ed., Kent State University, 1983
- Britenbaugh, Brandy L. (2019), Lecturer, M.O.T., University of Findlay, 2006
- Brown, Marvine (2015), Lecturer
- Burkholder, Maria R. (2006), Associate Lecturer, B.S., The Ohio State University, 2001
- Burnworth, Christina M. (1995), Lecturer, M.Tech., Kent State University, 2006
- Caldwell, Joy E. (2013), Lecturer
- Cameron, Mary M. (2017), Lecturer, B.S., Kent State University, 2013



- Carvalho, Carolyn J. (2004), Senior Lecturer, M.Tech., Kent State University, 2007
- Casey, Donna J. (2009), Lecturer & Academic Program Director, M.S.N., Walden University, 2009
- Chen, Jie (2001), Professor
- Courey, Tamra J. (1998), Associate Professor, D.N.P., Kent State University, 2014
- Czayka, Michael A. (1994), Senior Lecturer, M.Tech., Kent State University, 2002
- Daugherty, William S. (2005), Associate Lecturer, M.B.A., University of Hawaii, Manoa, 1974
- Dees, David M. , Associate Professor & Dean & Chief Administrative Officer , Ph.D., Kent State University, 2000
- Douglass, Angela T. (2003), Senior Lecturer, M.S.N., Youngstown State University, 2003
- Dragomir, Kelly A. (2012), Associate Lecturer, B.A., Kent State University, 2010
- Drugovich, Collette M. (2014), Associate Lecturer, M.S.N., Grand Canyon University, 2014
- Emens, Susan (1993), Associate Professor & Assistant Dean, M.A.E., Kent State University, 2003
- Ensminger-Stokes, Dawn E. (2011), Lecturer, M.S.N., University of Akron, 2007
- Freitas, Frances A. (1995), Assistant Professor, Ph.D., Kent State University, 2007
- Fritz, Timothy E. (2003), Lecturer
- Gialousis, Christine D. (2012), Lecturer
- Ginal, Sharon L. (2006), Associate Lecturer, M.S.N., Ursuline College, 2002
- Golden, Shawn D. (2004), Associate Professor, Ph.D., Kent State University, 2014
- Gump, Traci L. (2016), Lecturer, B.S., Ohio University, 2014
- Hager, Deborah L. (2004), Associate Professor, M.S.N., Franciscan University of Steubenville, 2004
- Hancock, Darryl A. (2012), Associate Professor, Ph.D., Chatham College, 2008
- Harding, Mariann M. (2005), Professor, Ph.D., West Virginia University, 2013
- Hildebrandt, Wendy C. (2015), Lecturer, M.S., Western Governors University, 2013
- Hoffman, Susan C. (1983), Assistant Professor, M.B.A., Wheeling College, 1982
- Iagulli, Margie B. (1997), Senior Lecturer, M.Ed., Kent State University, 2002
- Johnston, Kelly R. (2016), Lecturer, D.V.M., The Ohio State University, 1992
- Jones, Tonnette S. (2013), Lecturer, M.S.N., Ursuline College, 2013
- Kananian, Mary W. (2012), Lecturer, M.S.N., Marquette University, 1988
- Kelly, Johnston R. (2016), Lecturer, D.V.M., The Ohio State University, 1992
- Kiphart, Tiffany M. (2002), Senior Lecturer & Academic Program Director, B.S., Wilmington College of Ohio, 1993
- Koptur, Turan E. (2007), Lecturer, M.T., Kent State University, 2013
- Leija, Lynn M. (2005), Associate Lecturer, B.S., Ohio University, 1991
- Lickwar, Alisha (2017), Lecturer
- Main, Amy B. (2013), Assistant Professor, M.S.N., Indiana State University, 2008
- Majernik, John G. (2009), Lecturer, M.Ed., Kent State University, 2012
- Marshall, Shelley K. (1999), Associate Lecturer, M.Tech., Kent State University, 2008
- Martin-Bloodsaw, Charla (2018), Lecturer, B.A., Cleveland State University, 1996
- McCrea, Justin M. (2017), Lecturer
- McEnroe-Petitte, Denise M. (1996), Associate Professor, Ph.D., Capella University, 2014
- Mermer, Robin J. (2014), Lecturer, M.S.N., Kent State University, 2012
- Migge, Victoria L. (2006), Senior Lecturer, M.S., St. Francis University, 2004
- Morris, Lora J. (2003), Associate Professor, M.S.N., Ursuline College, 2002
- Muscatello, Joseph R. (2004), Associate Professor, D.B.A., Cleveland State University, 2002
- Neuman, Jyotsna (1986), Assistant Professor & Interim Assistant Dean, M.A.F.I.S., Cleveland State University, 1981
- Newman, Edward (1994), Assistant Professor, M.B.A., Ashland University, 1994
- Niederhiser, Dennis L. (2013), Lecturer
- Ossler, Robert L. (2011), Lecturer, M.S.N., University of Phoenix, 2010
- Panthi, Dhruva (2016), Assistant Professor, University Of Tokyo, 2014
- Paternite, Judith S. (1995), Professor, Ph.D., Kent State University, 2016
- Pech, Sandra L. (2000), Assistant Professor, Ph.D., Kent State University, 2010
- Peterson, Cynthia L. (1999), Senior Lecturer, M.P.H., Kent State University, 2008
- Rajagopal, Chitra P. (1993), Associate Professor, M.S., Youngstown State University, 1992
- Ratican, Sean P. (2018), Assistant Professor
- Remedio, Robert J. (1984), Assistant Professor, M.S., Youngstown State University, 1978
- Rempe, Rebecca D. (2010), Associate Lecturer, M.L.I.S., Kent State University, 2017
- Rezaei, Dariush (1989), Associate Professor, M.S., University of Arkansas, 1988
- Ricketts, Janine M. (2016), Lecturer, M.S., D'Youville College, 1999
- Rose, Stacy R. (2001), Associate Professor, M.S.N., Case Western Reserve University, 2000
- Schlosser, Elizabeth A. (1995), Associate Professor, B.S., Bowling Green State University, 1989
- Schmalzried, Robert J. (2017), Lecturer, Youngstown State University, 2004
- Schnurrenberger, Julia K. (2018), Lecturer, M.S.N., Indiana University, Purdue University Indianapolis, 2008
- Senita, Julie A. (2004), Associate Professor & Academic Program Director, Ph.D., Kent State University, 2017
- Sharma, Sankalp (2017), Assistant Professor
- Stefka, Shelly L. (2013), Lecturer, M.S.N., Walden University-Baltimore, 2012
- Steidl, Joan M. (2007), Associate Professor, M.A., John Carroll University, 2007

- Stocker, Susan J. , Associate Professor & Dean & Chief Administrative Officer
- Swoboda, Kathleen (2008), Associate Lecturer & Academic Program Director, L.S.M., Kent State University, 2011
- Totten, Christopher W. (2018), Assistant Professor, M.Arch., Catholic University of America, 2009
- Trebets, Edward (2016), Lecturer, M.Ed. , John Carroll University, 1998
- Tu, Tsunghui (2002), Associate Professor, Ph.D., Iowa State University, 2001
- Upole, Daryl G. (1992), Associate Lecturer
- Vanfossen, Jonathan S. (2007), Lecturer, M.Tech, Kent State University, 2009
- Ward, William C. (1988), Associate Professor, M.A., Kent State University, 1997
- Watson, Ruth A. (1989), Associate Professor, Ph.D., Kent State University, 2004
- Yakovac, Rebecca L. (2012), Lecturer, M.A., The Ohio State University, 1991
- Zampino, Anthony C. (1998), Associate Lecturer, M.Tech., Kent State University, 2003
- Zarzour, Richard (2019), Lecturer

## Courses

### Accounting Technology (ACTT)

#### ACTT 11000 ACCOUNTING I: FINANCIAL 4 Credit Hours

(Equivalent to ACCT 23020) Introduction to financial accounting, including principles generally accepted when preparing accounting statements for users outside of the business organization.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 4 lecture

**Grade Mode:** Standard Letter

#### ACTT 11001 ACCOUNTING II: MANAGERIAL 4 Credit Hours

(Equivalent to ACCT 23021) Introduction to managerial accounting, including accounting for manufacturing firms, budgeting, standard cost systems, direct costing, segment reporting and cost-volume-profit (CVP) analysis.

**Prerequisite:** ACTT 11000.

**Schedule Type:** Lecture

**Contact Hours:** 4 lecture

**Grade Mode:** Standard Letter

#### ACTT 11003 PAYROLL ACCOUNTING 3 Credit Hours

Introduction to the payroll function, including preparation of payroll and related federal, state and local tax forms required of all businesses. Students study both manual and computerized applications.

**Prerequisite:** ACTT 11000.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

#### ACTT 20012 ACCOUNTING SOFTWARE APPLICATIONS 3 Credit Hours

Students explore accounting, spreadsheet and word processing software.

**Prerequisite:** ACTT 11001.

**Schedule Type:** Lecture

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

#### ACTT 21000 ACCOUNTING III: FINANCIAL 3 Credit Hours

An intensive and practical study of financial accounting principles pertaining to balance sheet, income statement accounts and statement analyses.

**Prerequisite:** ACTT 11001.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

#### ACTT 21001 ACCOUNTING IV-FINANCIAL 3 Credit Hours

Continuation of ACTT 21000. Course covers income statement accounts and financial statement analyses. Students study both manual and computerized applications.

**Prerequisite:** ACTT 21000.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

#### ACTT 21003 FUNDAMENTALS OF TAX PREPARATION 3 Credit Hours

A non-technical presentation of federal income tax laws and regulations as they relate to individuals.

**Prerequisite:** ACTT 11000.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

#### ACTT 21092 INTERNSHIP IN ACCOUNTING TECHNOLOGY (ELR) 2-3 Credit Hours

(Repeatable for credit) Supervised field experience requires either minimum 14 hours each week for unpaid work experiences or minimum 20 hours each week for paid work experiences.

**Prerequisite:** ACTT 21000; and special approval.

**Schedule Type:** Practical Experience

**Contact Hours:** 24-36 other

**Grade Mode:** Satisfactory/Unsatisfactory

**Attributes:** Experiential Learning Requirement

#### ACTT 21095 SPECIAL TOPICS IN ACCOUNTING TECHNOLOGY 1-3 Credit Hours

(Repeatable for credit) Topics in accounting vary per course offering.

**Prerequisite:** Special approval.

**Schedule Type:** Lecture

**Contact Hours:** 1-3 lecture

**Grade Mode:** Standard Letter

#### ACTT 21096 INDIVIDUAL INVESTIGATION IN ACCOUNTING TECHNOLOGY 1-3 Credit Hours

(Repeatable for credit) Independent in-depth research of an accounting topic supervised and coordinated by an accounting technology faculty member.

**Prerequisite:** 12 credit hours of ACTT courses; and special approval.

**Schedule Type:** Individual Investigation

**Contact Hours:** 1-3 other

**Grade Mode:** Standard Letter

#### ACTT 31063 INTRODUCTION TO COST ACCOUNTING 3 Credit Hours

Cost accounting concepts and systems; role of costs in decision making; budgeting concepts and procedures; analysis of revenue, cost and income variances.

**Prerequisite:** ACTT 11001.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ACTT 36110 PRINCIPLES OF FRAUD EXAMINATION 3 Credit Hours**

Study of occupational fraud, abuse, detection and prevention within the realm of an enterprise.

**Prerequisite:** ACTT 11000 and ACTT 11001.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ACTT 36120 ETHICAL ISSUES RELATING TO FRAUD EXAMINATION 3 Credit Hours**

Understanding ethical dilemmas, issues and professionalism relating to fraud examination.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ACTT 46170 CASE STUDIES IN FRAUD EXAMINATION 3 Credit Hours**

Application of principles of fraud examination, detection and evaluation of recommended action plans to specific fraud cases.

**Prerequisite:** ACTT 36110 and IT 36318.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ACTT 46191 SEMINAR IN FRAUD EXAMINATION 3 Credit Hours**

(Repeatable for credit) Capstone course for students studying fraud examination and related areas. Students research, analyze and present current fraud issues.

**Prerequisite:** ACTT 46170 and special approval.

**Schedule Type:** Seminar

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

## Agribusiness (AGRI)

**AGRI 20000 ECONOMIC PERSPECTIVES ON FOOD AND AGRICULTURE 3 Credit Hours**

Introduction of the role of economics in agriculture at the firm, national, and international level. An overview of the structure and scope of the U.S. Food and Fiber Sector and its current trends and implications for the national economy. Students learn to apply various economic principles and concepts relating to production agriculture, business management, consumer behavior, market price analysis and equilibrium, international trade and public policy formation.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**AGRI 30000 FARM BUSINESS MANAGEMENT 3 Credit Hours**

Develops an understanding of the various business management decisions involved in the organization and operation of a farm business operation for continuous profit and production cost efficiency. Students acquire knowledge and proficiency in applying the various economic principles and farm business management analysis concepts which aid a farm operator or owner in the decision making process for a farm business operation.

**Prerequisite:** ACTT 11000 and BMRT 11009.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**AGRI 31000 AGRIBUSINESS MANAGEMENT 3 Credit Hours**

Intended for students interested in careers eventually leading to managerial positions in commodity production and marketing, input supply, banking, cooperatives and related agricultural industries. Focus is on the use of financial statements, operating and managerial functions, communication, and the inter-personal work environment within an organization. Presentation is by lecture integrated with experiential learning through use of student-team decision making applied to an agribusiness management simulation.

**Prerequisite:** ACTT 11000 and ACTT 11001 and BMRT 11009.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**AGRI 32000 FARM RECORDS ANALYSIS AND INCOME TAX MANAGEMENT 3 Credit Hours**

Develop an understanding of the procedures involved with farm recordkeeping and illustrates the ways in which farm records can be used to evaluate and to improve the economic performance and profitability of a farm business. Students have the opportunity to gain an understanding of the current tax system. Students learn to apply the various tax management methods and strategies that can be used to maximize the after tax income to a farm business operation.

**Prerequisite:** AGRI 30000.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**AGRI 33000 AGRICULTURAL COMMODITY MARKETING 3 Credit Hours**

Covers the economic factors, socioeconomic trends, farm demographic changes, global competitiveness, and consumer attitudes that shape the current structure and operation of the U.S. agricultural marketing system. Includes how decisions at one level in the value chain impact all other levels and explores how and when the system changes as a result of individual decisions. Also focuses on quality-based marketing, contracting and provides a global perspective.

**Prerequisite:** AGRI 20000 and BMRT 11009.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**AGRI 34000 LIVESTOCK PRODUCTION MANAGEMENT 3 Credit Hours**

An introduction to the livestock industry and its role in society and our economy. Principles of livestock production management are introduced for beef, swine, dairy cattle, horses, sheep, goats and poultry.

**Prerequisite:** AGRI 31000.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**AGRI 35000 CROP AND FORAGE PRODUCTION MANAGEMENT 3 Credit Hours**

Deals with crop plants in relation to the environment, crop improvement, seeds, and seeding. The practice of tillage, fertilizer, rotation, cropping, and weed control is covered. Pastureland and farmland, the harvest of field crops, and the handling and marking of grain seeds and hay are also included, as well as crops of the grass family, perennial forage grasses, the legume family and miscellaneous crops.

**Prerequisite:** AGRI 30000.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**AGRI 40000 ADVANCED FARM BUSINESS MANAGEMENT 3 Credit Hours**

Application of economics and business principles to the management of a Farm Business. Use of analytical tools such as enterprise budgeting, linear programming, pro-forma cash flow budgeting, capital budgeting, and risk management analysis to aid the decision-making process.

Understanding of farm transfer and succession planning and its importance in the intergenerational viability of a farm business.

**Prerequisite:** AGRI 30000.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**AGRI 40092 AGRIBUSINESS INTERNSHIP (ELR) 3 Credit Hours**

Provides students an internship work experience in the agribusiness industry. The internship may be completed in any one of the following areas of agribusiness: sales management, agriculture lending, insurance, cooperative management, commodity merchandising, farm business management, public relations, farm marketing, agricultural policy, dairy production or farm business operations.

**Prerequisite:** Agribusiness major; junior or senior standing; and special approval.

**Schedule Type:** Practical Experience

**Contact Hours:** 9 other

**Grade Mode:** Standard Letter

**Attributes:** Experiential Learning Requirement

**AGRI 41000 AGRICULTURAL PRICE ANALYSIS 3 Credit Hours**

The economics of supply and demand provide a foundation for understanding the behavior of agricultural markets, the formation of prices, and the role of prices in the allocation of goods and services. Traditional topics include: aggregate demand & supply determination, price equilibrium, elasticities in the commodity market, equilibrium displacement models, derived demand of food products, quantitative analysis of food marketing channels, regression analysis and spatial concepts in agriculture.

**Prerequisite:** AGRI 20000, ECON 22061.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**AGRI 42000 AGRICULTURAL FINANCE 3 Credit Hours**

To develop an understanding and proficiency in applying the various economic principles and concepts of financial management for analyzing alternative investment decisions and solving financial problems in a farm business operation. Various strategies for acquiring and financing capital resources in the farm business operation are explored. Characteristics of the financial institutions providing credit to farmers and their particular lending programs are studied.

**Prerequisite:** AGRI 30000 and MATH 11010.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**AGRI 43000 AGRICULTURAL ENVIRONMENTAL LAW 3 Credit Hours**

To acquaint students with the fundamentals of state and federal pollution control law. Major topics include: air pollution control, water pollution control, toxic substance control, solid waste management and disposal, Superfund, wetlands, endangered species, land use regulation, environmental assessment, environmental law administration and enforcement and global environmental law.

**Prerequisite:** AGRI 30000 and BMRT 21000.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**AGRI 44000 AGRICULTURAL AND INTERNATIONAL TRADE POLICY 3 Credit Hours**

History, development, programs, and analysis of public policy issues in agriculture and natural resources. Analysis of science, economic, and political factors involved in policy development. Emphasis on farm policy and farm structure; food and nutrition; trade and development; and natural resources, the environment, and bioenergy, with special attention to issues and policies impacting Ohio and the United States.

**Prerequisite:** AGRI 20000 and ECON 22061.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**AGRI 45000 SENIOR SEMINAR (WIC) 3 Credit Hours**

Capstone course designed to expose Agribusiness majors to current events and the interpretation of those events in an economics framework for use in management decision making. Students are introduced to the scientific method and complete a senior research project.

**Prerequisite:** Agribusiness (AGRI) major; and senior standing.

**Schedule Type:** Seminar

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**Attributes:** Writing Intensive Course

## Allied Health Sciences (AHS)

**AHS 11001 PERSONAL TRAINING, WELLNESS AND EXERCISE 3 Credit Hours**

Theoretical and practical competencies required of a qualified personal trainer, including exercise, nutrition and wellness concepts that are immediately applicable to improve personal lifestyle decisions. Receive hands on experience in training, instruction and professional skill development. Upon completion students are qualified to sit for the personal trainer certification exam administered by the National Council on Strength and Fitness (NCSF).

**Prerequisite:** None.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 2 lecture, 2 lab

**Grade Mode:** Standard Letter

**AHS 12000 BASIC PRINCIPLES OF PHARMACOLOGY 2 Credit Hours**

Identify and apply the basic principles of pharmacology to client care. Explore pharmaceuticals, pharmacokinetics, pharmacodynamics, pharmacology-related math, drug classification, and safe preparation and administration of medications.

**Prerequisite:** Nursing Technology, Nursing, Physical Therapist Assistant Technology, Occupational Therapist Assistant Technology, Radiologic Technology or Respiratory Therapy Technology major.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter



**AHS 12005 CONCEPTS IN LIFESPAN DEVELOPMENT 3 Credit Hours**

Developmental theories and assessment measures throughout the lifespan, with application to the rehabilitation client.

**Prerequisite:** PSYC 11762.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**AHS 12010 PROFESSIONALISM IN HEALTHCARE 1 Credit Hour**

Provides information concerning the professional behaviors and communication skills necessary for all healthcare providers to effectively interact with clients, related healthcare professionals and others.

Students will gain an understanding of the importance of being professional, ethical and competent in their fields.

**Prerequisite:** None.

**Schedule Type:** Seminar

**Contact Hours:** 1 other

**Grade Mode:** Standard Letter

**AHS 14016 PATIENT CARE MANAGEMNT 2 Credit Hours**

Ethical and legal aspects, interpersonal communication, history taking, physical assistance and monitoring, medical emergencies, infection control, aseptic and non-septic techniques, patient tubes and lines, safe patient movement and handling techniques, immobilization techniques, vital signs, and pharmacology are topics covered. Some activities are done in the lab setting.

**Prerequisite:** Special approval.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 1 lecture, 2 lab

**Grade Mode:** Standard Letter

**AHS 22002 CLINICAL KINESIOLOGY 3 Credit Hours**

Function of the human body with emphasis on the musculoskeletal system and gross body measurements.

**Prerequisite:** BSCI 11010; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**AHS 22003 CLINICAL KINESIOLOGY LABORATORY 1 Credit Hour**

Application of human body movement and function concepts.

**Prerequisite:** BSCI 11010; and special approval.

**Schedule Type:** Laboratory

**Contact Hours:** 3 lab

**Grade Mode:** Standard Letter

**AHS 24010 MEDICAL TERMINOLOGY 1 Credit Hour**

Terminology utilized by the medical profession. Emphasis is on definition, spelling, pronunciation and correct usage of terms.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 1 lecture

**Grade Mode:** Standard Letter

**AHS 24014 ADVANCED IMAGING 2 Credit Hours**

The procedures and equipment used in advanced imaging modalities including radiography and fluoroscopy, interventional radiology, computed tomography, magnetic resonance imaging, diagnostic medical sonography, nuclear medicine, PET scanning, mammography and radiation therapy. Also includes overview of billing and coding of these types of procedures.

**Prerequisite:** Special approval.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**AHS 24028 RADIOLOGIC PATHOLOGY 3 Credit Hours**

Disease processes and the pathologies associated with each anatomical system in the human body are described and their application to all imaging modalities in the radiologic and imaging sciences.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

## Animation Game Design (AGD)

**AGD 11003 SOLID MODELING 3 Credit Hours**

Instruction given in the best usage approaches for parametric design philosophy through a hands-on, practice-intensive curriculum. Students acquire the knowledge needed to complete the process of designing models from conceptual sketching, through to solid modeling, assembly design and drawing production with rendering techniques for presentation.

**Prerequisite:** Animation Game Design major or Game Design minor or Modeling and Animation minor.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**AGD 12000 TWO DIMENSION GRAPHICS 3 Credit Hours**

Introductory course for creation of two-dimension graphics using vector and raster imaging for use in mapping and character development in animation and gaming.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**AGD 12001 MODELING AND TEXTURING I 3 Credit Hours**

Introduction to the basic concepts of three-dimension modeling and animation. Topics include terminology, techniques of creating textures and imaging for mapping, three-dimension modeling, lighting, shading and rendering.

**Prerequisite:** AGD 12000 with a minimum grade of C; and Modeling, Animation and Game Creation major or Game Design minor or Modeling and Animation minor.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**AGD 21000 FUNDAMENTALS OF MIXED REALITY 3 Credit Hours**

Course explores the fundamentals of virtual and augmented reality available today (education, medical, games, architecture, etc.).

**Prerequisite:** Animation Game Design major or Game Design minor or Modeling and Animation minor; and sophomore standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**AGD 21092 ANIMATION AND GAME DESIGN PRACTICUM (ELR) 1-3 Credit Hours**

(Repeatable for credit) Supervised work experience. One credit hour for 50 work hours.

**Prerequisite:** None.

**Schedule Type:** Practical Experience

**Contact Hours:** 3.333-10 other

**Grade Mode:** Satisfactory/Unsatisfactory

**Attributes:** Experiential Learning Requirement



**AGD 22000 TWO-DIMENSION COMMUNICATION 3 Credit Hours**  
 Comprehensive training with 2D and 3D elements of computer-aided-design (CAD) from the foundation to advanced techniques applicable to design in the graphics, mechanical, industrial and electronics fields.  
**Prerequisite:** Animation Game Design major or Game Creation minor or Modeling and Animation minor.  
**Schedule Type:** Lecture  
**Contact Hours:** 3 lecture  
**Grade Mode:** Standard Letter

**AGD 22001 MODELING FOR ARCHITECTURE 3 Credit Hours**  
 Introduction to building information modeling (BIM) fundamentals using an industry-standard architectural software application, including creation of full 3D architectural project into working drawings.  
**Prerequisite:** Animation Game Design major or Game Design minor or Modeling and Animation minor.  
**Schedule Type:** Lecture  
**Contact Hours:** 3 lecture  
**Grade Mode:** Standard Letter

**AGD 22004 MODELING AND TEXTURING II 3 Credit Hours**  
 3D modeling and computerized techniques. Introduction to the basic concepts, terminology and techniques of 3D modeling, lighting, shading, imaging and animation.  
**Prerequisite:** AGD 12001 with a minimum grade of C.  
**Schedule Type:** Lecture  
**Contact Hours:** 3 lecture  
**Grade Mode:** Standard Letter

**AGD 22005 MULTIMEDIA AND GAME DESIGN 3 Credit Hours**  
 2D and 3D game development which includes the creation of flowcharts, roughs and interactive navigation systems. Integration of images, animation, video, sound and custom code for the app or game for mobile device.  
**Prerequisite:** AGD 12001.  
**Schedule Type:** Lecture  
**Contact Hours:** 3 lecture  
**Grade Mode:** Standard Letter

**AGD 22010 DIGITAL SCULPTING 3 Credit Hours**  
 This course will explore interactive 3D sculpting to create highly-detailed and realistic models for use in games, film, animation and illustration.  
**Prerequisite:** AGD 12001; and Animation Game Design major or Game Design minor or Modeling and Animation minor.  
**Schedule Type:** Lecture  
**Contact Hours:** 3 lecture  
**Grade Mode:** Standard Letter

**AGD 22095 SPECIAL TOPICS IN ANIMATION AND GAME DESIGN 1-3 Credit Hours**  
 (Repeatable for credit) Special topics in animation and game design. Repeated registration permitted.  
**Prerequisite:** None.  
**Schedule Type:** Lecture  
**Contact Hours:** 1-3 lecture  
**Grade Mode:** Standard Letter

**AGD 23020 GAMING AND CULTURE 3 Credit Hours**  
 Familiarize students with the basic issues of culture and social aspects in different contexts including the relationship between culture and gaming. What is play, what is experiencing, and what are the cultural determinants that are at work in the process.  
**Prerequisite:** Sophomore standing.  
**Schedule Type:** Lecture  
**Contact Hours:** 3 lecture  
**Grade Mode:** Standard Letter

**AGD 33010 COMPETITIVE GAMING 3 Credit Hours**  
 Introduction to eSports cultures and exploration of streaming techniques and layouts. The business culture of eSports, developing teams, communities, competitive gaming, event marketing and organizing an eSports event.  
**Prerequisite:** Junior standing.  
**Schedule Type:** Lecture  
**Contact Hours:** 3 lecture  
**Grade Mode:** Standard Letter

**AGD 33030 GAMES FOR EDUCATION 3 Credit Hours**  
 This course explores using games for education and industry training.  
**Prerequisite:** AGD 12000; and Computer Design, Animation and Game Design concentration in the Engineering Technology major or Game Design minor or Modeling and Animation minor; and junior standing.  
**Schedule Type:** Lecture  
**Contact Hours:** 3 lecture  
**Grade Mode:** Standard Letter

**AGD 33095 SPECIAL TOPICS ANIMATION AND GAME DESIGN 1-3 Credit Hours**  
 To be determined based on special course topic presented.  
**Prerequisites:** Animation and Game Design major  
**Prerequisite:** Animation and Game Design major.  
**Schedule Type:** Lecture  
**Contact Hours:** 1-3 lecture  
**Grade Mode:** Standard Letter

**AGD 34000 CHARACTER ANIMATION 3 Credit Hours**  
 Continuation of the study and technology applications of computer animation with emphasis on camera usage and the production of a comprehensive animation project involving the animation thought process (ATP).  
**Prerequisite:** AGD 22004.  
**Schedule Type:** Lecture  
**Contact Hours:** 3 lecture  
**Grade Mode:** Standard Letter

**AGD 34001 ANIMATION PROJECT 3 Credit Hours**  
 Continued study of practical technology applications of computer animation with emphasis on scripting code writing, systems line variables and fluent realism factors within the ATP.  
**Prerequisite:** AGD 34000.  
**Schedule Type:** Lecture  
**Contact Hours:** 3 lecture  
**Grade Mode:** Standard Letter

**AGD 34003 ANIMATION THEORY 3 Credit Hours**  
 A comprehensive course covering the fundamentals of storytelling with animation and motion graphics. Coverage of concept development, pre-production, storyboarding, color and design.  
**Prerequisite:** AGD 22004.  
**Schedule Type:** Lecture  
**Contact Hours:** 3 lecture  
**Grade Mode:** Standard Letter

**AGD 34005 ENVIRONMENTAL GAME DESIGN 3 Credit Hours**

In this course, we will learn the essentials of game environment creation. We will look at how textures, terrains, foliage, particle effects, lighting and blueprinting work and are created in a computer-aided software. We will also learn to import 3D models in to our game environment.

**Prerequisite:** AGD 22004; and junior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**AGD 43000 INTERACTIVE GAME DESIGN 3 Credit Hours**

This course is the continuation of AGD 34005 and a group project based course. We will be covering how to add characters and blueprint scripting aspects in Unreal Engine. Our purpose is to create a playable 3D game in Unreal Engine

**Prerequisite:** AGD 34005.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture, 2 lab

**Grade Mode:** Standard Letter

**AGD 43001 ANIMATION PRODUCTION AND VISUAL EFFECTS 3 Credit Hours**

A course dealing with the technical and business aspects of pre-and post production planning for multimedia video or film projects. Covers a systematic approach to content organization and development, scripting, visualization. We will explore effects such as particles and volumes (fire, smoke, liquids) inside 3D scenes as well as compositing effects.

**Prerequisite:** AGD 22004.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**AGD 43002 GRAPHICS DESIGN TECHNOLOGY 3 Credit Hours**

A course of study in the technology of creating knowledge and effects using computer-graphics concepts to create photo-realistic composite images and to restore and enhance a wide array of images.

**Prerequisite:** AGD 22004.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**AGD 43025 REAL-TIME RENDERING FOR ANIMATION 3 Credit Hours**

This course focuses on using a game engine, also known as a real-time renderer, to present stories and animation in real-time. This includes meeting performance targets, interactivity, and animation. Prerequisites: AGD 34001 and AGD 34005

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**AGD 43092 INTERNSHIP IN ANIMATION AND GAME DESIGN (ELR) 1-3 Credit Hours**

(Repeatable for credit) A credit-bearing work experience with educational outcomes, utilizing and enhancing a student's academic learning in practical occupational situations. The student is expected to complete pre-determined assignments, which may include a weekly journal, final paper, or an experience report.

**Prerequisite:** Animation Game Design major and junior standing; and special approval.

**Schedule Type:** Practical Experience

**Contact Hours:** 1-3 other

**Grade Mode:** Standard Letter

**Attributes:** Experiential Learning Requirement

**AGD 43096 INDIVIDUAL INVESTIGATION IN ANIMATION AND GAME DESIGN 1-3 Credit Hours**

(Repeatable for credit) Research or individual investigation in areas not covered in the existing curriculum for baccalaureate level students at or above the junior level.

**Prerequisite:** Special approval.

**Schedule Type:** Individual Investigation

**Contact Hours:** 1-3 other

**Grade Mode:** Standard Letter

**AGD 49999 SENIOR CAPSTONE PROJECT (ELR) 3 Credit Hours**

This is a senior project class allowing students to work in an area of interest.

**Prerequisite:** AGD 43000 and AGD 43025; and senior standing.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 1 lecture, 2 lab

**Grade Mode:** Standard Letter

**Attributes:** Experiential Learning Requirement

## Aviation Maintenance Technology (AMRT)

**AMRT 10010 FAA REGULATIONS AND DOCUMENTATION 2 Credit Hours**

FAA history, inspections, documentation and aircraft drawings.

Comprehensive course for the AMRT candidate to meet the requirements for FAA certification.

**Corequisite:** AMRT 10040.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**AMRT 10020 AIRCRAFT TOOLS AND TECHNIQUES 2 Credit Hours**

Welding for the aviation maintenance technician and understanding of fluid lines and fittings. Comprehensive course for the AMRT candidate to meet the requirements for FAA certification.

**Corequisite:** AMRT 10010.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 2 other

**Grade Mode:** Standard Letter

**AMRT 10030 AIRFRAME I 3 Credit Hours**

Understanding aircraft systems and corrosion control. Comprehensive course for the AMRT candidate to meet the requirements for FAA certification.

**Corequisite:** AMRT 10010.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**AMRT 10040 AVIATION POWER PLANT I 4 Credit Hours**

Study of aviation engines and propellers. Comprehensive course for the AMRT candidate to meet the requirements for FAA certification.

**Corequisite:** AMRT 10010.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 4 other

**Grade Mode:** Standard Letter

**AMRT 20010 AIRFRAME II 3 Credit Hours**

Understanding aircraft structures. Comprehensive course for the AMRT candidate to meet the requirements for FAA certification.

**Prerequisite:** AMRT 10030.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**AMRT 20020 AIRFRAME III 2 Credit Hours**

Advanced airframe course. Comprehensive course for the AMRT candidate to meet the requirements for FAA certification.

**Corequisite:** AMRT 20010.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 2 other

**Grade Mode:** Standard Letter

**AMRT 20030 AVIATION ELECTRONICS 3 Credit Hours**

Electronics and systems for the aviation maintenance technician. Comprehensive course for the AMRT candidate to meet the requirements for FAA certification.

**Prerequisite:** EERT 12001.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**AMRT 20040 PRINCIPLES OF FLIGHT 3 Credit Hours**

Nature of light, sound and aerodynamics. Comprehensive course for the AMRT candidate to meet the requirements for FAA certification.

**Prerequisite:** PHY 12202.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**AMRT 20050 PRACTICUM IN ADVANCED AVIATION 2 Credit Hours**

Aviation maintenance experience. Comprehensive course for the AMRT candidate to meet the requirements for FAA certification.

**Prerequisite:** AMRT 10040.

**Schedule Type:** Practical Experience

**Contact Hours:** 2 other

**Grade Mode:** Standard Letter

**AMRT 20060 AVIATION POWER PLANT II 2 Credit Hours**

Further studies into aircraft engines. Comprehensive course for the AMRT candidate to meet the requirements for FAA certification.

**Prerequisite:** AMRT 10040.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 2 other

**Grade Mode:** Standard Letter

## Business Management Related Technology (BMRT)

**BMRT 11000 INTRODUCTION TO BUSINESS 3 Credit Hours**

(Equivalent to BUS 10123) Overview of social, economic and consumer environments as related to large and small business. Emphasis is on production, marketing, finance, management and human resources. It is recommended that any reading courses indicated by COMPASS score are taken prior to enrolling in this course.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**BMRT 11006 BUSINESS COMPUTATIONS I 3 Credit Hours**

Application of algebraic and arithmetic concepts to accounting, finance and marketing. Computation of finance charges, taxes, fundamentals of inventory control and depreciation.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**BMRT 11009 INTRODUCTION TO MANAGEMENT TECHNOLOGY 3 Credit Hours**

(Equivalent to MGMT 24163) Study of planning, organizing, directing/ leadership, controlling, staffing, decision making, and communication theories and management applications of human and material resources and methods. It is recommended that any reading courses indicated by COMPASS score are taken prior to enrolling in this course.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**BMRT 21000 BUSINESS LAW AND ETHICS I 3 Credit Hours**

(Equivalent to FIN 26074) Introduction to American law as related to government, business, society and the ethical issues that occur in the legal environment. Emphasis is on contract law. Relevant past and current law issues are addressed.

**Prerequisite:** RC 00006 or minimum 86 Compass Reading score; and ENG 01001, ENG 11011, ENG 21011 or minimum 67 Compass Writing score.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**BMRT 21004 BUSINESS ANALYTICS I 3 Credit Hours**

(Equivalent to MGMT 24056) This course is an introduction to concepts in statistical methods and their application to real-world problems. This course will examine both the theoretical and practical side of the different methods. Students will be given ample opportunities to apply the techniques to different real-world programs. The goal of the course is for students to understand fundamental statistical concepts and methods, and their applications.

**Prerequisite:** MATH 11010 or MATH 11012 or MATH 12002.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**BMRT 21008 CASE STUDIES IN MANAGEMENT AND ENTREPRENEURSHIP 3 Credit Hours**

Application of management theory to actual business situations. Emphasis on decision making and evaluation of methods and styles of management in all functional areas.

**Prerequisite:** BMRT 11000 or BMRT 11009 or MGMT 24163 or BUS 10123.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**BMRT 21011 FUNDAMENTALS OF FINANCIAL MANAGEMENT 3 Credit Hours**

Understanding basic financial reports for analysis and performance of a business. Preparation of sales forecasts to develop capital and expense budgets.

**Prerequisite:** ACTT 11000 and IT 11000 or special approval of BMRT faculty.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**BMRT 21020 INTRODUCTION TO ENTREPRENEURSHIP 3 Credit Hours**

Provides information about the functional elements of starting a small business. Includes the use of instruments, exercises and case analyses to assess entrepreneurial skills.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter-IP

**BMRT 21023 FINANCING THE BUSINESS VENTURE 3 Credit Hours**

Course deals with determining capital needs, identifying sources of capital, developing a financial plan and interpreting financial statements. Both public and private loan programs will be reviewed.

**Prerequisite:** BMRT 21020 or special approval of full-time BMRT faculty.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**BMRT 21050 FUNDAMENTALS OF MARKETING TECHNOLOGY 3 Credit Hours**

(Equivalent to MKTG 25010) An overview of the process, activities, and problems associated with the conception, planning and execution of pricing, promotion, product and placement of goods and services

**Prerequisite:** ECON 22060.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**BMRT 21052 PROFESSIONAL SELLING TECHNIQUES 3 Credit Hours**

Study of personal selling as a promotional technique to determine and satisfy the needs of buyers and to build a long-term relationship among all parties.

**Prerequisite:** BMRT 11000 or special approval of full-time BMRT faculty.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**BMRT 21053 ADVERTISING IN BUSINESS 3 Credit Hours**

A practical approach to the study of advertising. Emphasis is on the effective use of the media creating advertising operations and advertising management.

**Prerequisite:** BMRT 21050 or special approval of BMRT faculty.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**BMRT 21092 INTERNSHIP IN MANAGEMENT TECHNOLOGY (ELR) 1-3 Credit Hours**

(Repeatable for credit) Students participate in a supervised educational experience. Each credit hour requires a minimum of seven hours work without pay or 10 hours work with pay per week for 15 weeks.

**Prerequisite:** Special approval of full-time BMRT faculty.

**Schedule Type:** Practical Experience

**Contact Hours:** 7-21 other

**Grade Mode:** Standard Letter-IP

**Attributes:** Experiential Learning Requirement

**BMRT 21095 SPECIAL TOPICS 1-3 Credit Hours**

(Repeatable for credit) Special topics in business technology announced when scheduled.

**Prerequisite:** Special approval from full-time BMRT faculty.

**Schedule Type:** Lecture

**Contact Hours:** 1-3 lecture

**Grade Mode:** Standard Letter

**BMRT 21096 INDIVIDUAL INVESTIGATION IN BUSINESS TECHNOLOGY 1-3 Credit Hours**

(Repeatable for credit) Individual study in business and related fields.

**Prerequisite:** Business Management Technology major; and special approval from full-time BMRT faculty.

**Schedule Type:** Individual Investigation

**Contact Hours:** 1-3 other

**Grade Mode:** Standard Letter-IP

**BMRT 22000 GLOBAL LOGISTICS 3 Credit Hours**

The efficient and effective movement of physical goods from point of origin to point of consumption for consumers, businesses, and other organizations. Key areas of study include inbound and outbound logistics, transportation methods, inventory control, warehousing, material handling, information technology, security, risk, and sustainability.

**Prerequisite:** BMRT 11009.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**BMRT 22099 SEMINAR IN LOGISTICS AND SUPPLY CHAIN MANAGEMENT 3 Credit Hours**

Capstone course in Logistics and Supply Chain Management requiring an in-depth analysis of emerging global issues, both qualitative and quantitative. Case studies, research reports and in-depth investigations are incorporated into the course.

**Prerequisite:** BMRT 22000; and Sophomore standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**BMRT 31005 PURCHASING AND SUPPLY MANAGEMENT 3 Credit Hours**

Investigates the purchasing, planning and logistics functions of supply chain management. Process control, negotiations, quality control, service measurement and other quantitative methods are covered.

**Prerequisite:** BMRT 11000 or BMRT 11009.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**BMRT 31006 HUMAN RESOURCE MANAGEMENT 3 Credit Hours**

The study of contemporary issues of human resources. Covers planning, job design, selection, appraisal, compensation, training, life quality, safety/health, diversity and unions.

**Prerequisite:** BMRT 11009 or MGMT 24163.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**BMRT 31009 SEMINAR IN MANAGEMENT AND ENTREPRENEURSHIP 3 Credit Hours**

Students of business management technology engage in critical reading, writing and discussion to apply business theory to on-the-job experiences.

**Prerequisite:** BMRT 11000 or BMRT 11009 or MIS 24163 or BUS 10123, and ACTT 11000 or ACTT 11001 or ACCT 23020 or 23021 or equivalent.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**BMRT 32020 LEAN SUSTAINABILITY 1 Credit Hour**

A sustainable business is an enterprise has minimal negative, or a positive impact on Society. Impacts can be environmental, economical, or community based.

**Prerequisite:** BMRT 11009.

**Schedule Type:** Lecture

**Contact Hours:** 1 lecture

**Grade Mode:** Standard Letter

**BMRT 36401 APPLICATIONS OF TECHNOLOGY MANAGEMENT SOFTWARE 3 Credit Hours**

Combination of computer and business applications for managing technology within an organization. Focus is on using emerging computer software programs for the enhancement of decision making. Course is 2 hours lecture, 1 hour lab.

**Prerequisite:** BMRT 11000 and IT 12000; or special approval of full-time Applied Business faculty.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**BMRT 36410 SECURITY FOR BUSINESS STUDENTS 3 Credit Hours**

Concepts and principles of security and safety in industrial and commercial settings. Focus on executive oversight of corporate security functions. Includes risk analysis, security surveys, emergency preparedness and security policies and procedures.

**Prerequisite:** Junior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**BMRT 36415 CUSTOMER SERVICE 3 Credit Hours**

Analysis and definition of customer satisfaction with an emphasis on quality customer service that includes techniques for assessing company service efforts and developing customer satisfaction programs.

**Prerequisite:** Sophomore standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**BMRT 36420 PHYSICAL SECURITY 3 Credit Hours**

Elements of design, technology and procedures that deter, delay, detect and defeat criminal activity. Deployment and optional countermeasures. Budgeting based on risk analysis.

**Prerequisite:** Junior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**BMRT 36430 SECURITY MANAGEMENT 3 Credit Hours**

Principles of security and safety in private business and institutions. Emphasis on proprietary departments and security of those departments. Focus on need for proprietary security organization, internal controls, external threats and electronic devices. Examination of departmental policies and procedures.

**Prerequisite:** Junior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**BMRT 36440 SECURITY INVESTIGATION 3 Credit Hours**

Addresses future of private security, conducting interviews and dealing with testimonial evidence. Following leads, collecting evidence, preserving crime scenes, use of investigative tools, surveillance techniques and report writing.

**Prerequisite:** Junior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**BMRT 40092 PRACTICUM IN APPLIED BUSINESS AND TECHNOLOGY (ELR) 1-4 Credit Hours**

(Repeatable for a maximum of 4 credit hours) On sight internship or a project with a business or technology related organization approved by the Instructor.

**Prerequisite:** Junior standing and special approval.

**Schedule Type:** Field Experience, Practical Experience

**Contact Hours:** 7-28 other

**Grade Mode:** Standard Letter

**Attributes:** Experiential Learning Requirement

**BMRT 40096 INDIVIDUAL INVESTIGATION IN BUSINESS AND TECHNOLOGY 1-4 Credit Hours**

(Repeatable for a maximum of 4 credit hours) Perform an individual project or research assignment as approved by the instructor.

**Prerequisite:** Junior standing; and special approval.

**Schedule Type:** Individual Investigation

**Contact Hours:** 7-28 other

**Grade Mode:** Standard Letter

**BMRT 46295 SPECIAL TOPICS IN APPLIED BUSINESS 2-3 Credit Hours**

(Repeatable for credit) Specialized advance instruction oriented primarily to applied business topics. Topics will vary and will be announced as scheduled.

**Prerequisite:** Special approval.

**Schedule Type:** Lecture

**Contact Hours:** 2-3 lecture

**Grade Mode:** Standard Letter

**BMRT 46409 STRATEGIC MANAGEMENT OF TECHNOLOGY AND INNOVATION 3 Credit Hours**

An examination using case studies and readings of the management of technology and innovation through perspectives at the product line, business unit and corporate levels.

**Prerequisite:** BMRT 21050 and BMRT 21011; and junior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**BMRT 46410 CRISIS AND DISASTER MANAGEMENT PLANNING 3 Credit Hours**

Addresses planning process for mitigation and recovery strategies for natural and man-made crisis and disasters. Includes risk assessment, incident management and planning evaluation.

**Prerequisite:** Junior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter



**BMRT 46418 LABOR STUDIES IN TECHNOLOGY 3 Credit Hours**

This course will include the history of the labor movement, interrelationships of labor with business and industry, labor law, contemporary labor problems that emphasizes how unions are organized, contracts, arbitration and management issues.

**Prerequisite:** Junior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**BMRT 46420 LEGAL ISSUES IN SECURITY 3 Credit Hours**

Survey of laws applicable to security risks including torts, labor, employment, criminal and constitutional issues.

**Prerequisite:** Junior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

## Early Childhood Education Technology (ECET)

**ECET 21005 PARTNERSHIPS IN CHILD GUIDANCE 3 Credit Hours**

(Equivalent to ECED 20104) Appropriate guidance strategies set the foundation for positive experiences our youngest children in school; patterns learned early often set a foundation for primary school entry. This course addresses the concerns of guidance, family partnerships, and inclusive schooling with preschool children and their educators. It takes a proactive stance, helping teachers develop a constructive guidance approach. There are field-based assignments in this course and 12 hours of field experience is required.

**Pre/corequisite:** ECED 10120 and ECED 20101.

**Corequisite:** ECET 22000 and ECET 22130 and ECED 30202.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ECET 21010 INFANT AND TODDLER CURRICULUM AND SERVICES 3 Credit Hours**

Infant/toddler development, environments and curriculum; theoretical perspectives; family involvement; community involvement; community resources, collaboration and advocacy; 38 hours of field experience required. Students are required to complete Bureau of Criminal Investigation and Identification (BCII) and Federal Bureau of Investigation (FBI) background checks and submit the results to authorized personnel at their assigned school/agency before the first day of the semester in which student teaching/internship will take place.

**Prerequisite:** ECED 10120 and ECED 20163.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ECET 21095 SPECIAL TOPICS IN EARLY CHILDHOOD EDUCATION TECHNOLOGY 1-3 Credit Hours**

(Repeatable for credit) Intensive study of significant current issues in the early childhood education field.

**Prerequisite:** Departmental permission.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ECET 21096 INDIVIDUAL INVESTIGATION IN EARLY CHILDHOOD EDUCATION TECHNOLOGY 1-3 Credit Hours**

(Repeatable for a maximum of 6 credit hours) Analysis and special research in the early childhood education field.

**Prerequisite:** Departmental special approval.

**Schedule Type:** Individual Investigation

**Contact Hours:** 1-3 other

**Grade Mode:** Standard Letter

**ECET 22000 PRESCHOOL CURRICULUM 3 Credit Hours**

(Equivalent to ECED 20103) In this course students will plan, implement, and evaluate developmentally appropriate content and methodology for preschool age children. This course will give students a foundation for understanding the developmental processes occurring during the preschool years and an introduction to teaching and learning in preschool. 38 field hours are required along with field-based assignments. Students are required to complete Bureau of Criminal Investigation and Identification (BCII) and Federal Bureau of Investigation (FBI) background checks and submit the results to authorized personnel at their assigned school or agency before the first day of the semester.

**Pre/corequisite:** ECED 10120 and ECED 20101.

**Corequisite:** ECET 21005 and ECET 22130 and ECED 30202.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ECET 22130 EMERGING LITERACIES 3 Credit Hours**

(Equivalent to ECED 30201) An examination of the process of language and literacy development in preschool children. The course will focus on how early childhood teachers integrate knowledge of child development with early literacy learning in the home and school environments.

**Pre/corequisite:** ECED 10120 and ECED 20101.

**Corequisite:** ECET 21005 and ECET 22000 and ECED 30202.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ECET 22140 PRESCHOOL SEMINAR FOR STUDENT TEACHING (ELR) 2 Credit Hours**

(Equivalent to ECED 40165) A reflective approach to make student teaching experience more valuable. Students develop and implement developmentally appropriate curriculum and assessment for young children. The course content will serve to extend, deepen integrate the individual student's knowledge, attitudes and skills related to the preschool competencies. The seminar is constructed around the following Teacher Education Competencies: 1. Inquiry Cycle – observation/documentation/assessment 2. Knowledge of child growth and development – typical and atypical 3. Ecological systems perspectives regarding family and family/professional collaboration 4. Planning for Student Learning 5. Curriculum, Instruction - Teaching in the Classroom 6. Professional Accountability and Responsibility -Developing Professional Skills During Student Teaching.

**Prerequisite:** ECED 10120, ECED 20101, ECET 21005, ECET 22000, ECET 22130 and ECED 30202; and special approval.

**Corequisite:** ECET 22192.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter-IP

**Attributes:** Experiential Learning Requirement

**ECET 22192 PRESCHOOL STUDENT TEACHING (ELR) 4 Credit Hours**  
(Equivalent to ECED 40192, ECED 20192) Student spends 180 hours at an approved preschool program under the supervision of a program faculty member or supervising teacher. Students are required to complete certifications in AED/CPR, ALICE Training, AND Child Safety. Bureau of Criminal Investigation and Identification (BCII) and Federal Bureau of Investigation (FBI) background checks and submit the results to authorized personnel at their assigned school or agency before the first day of the semester in which student teaching or internship will take place.

**Pre/corequisite:** ECED 10120, ECED 20101, ECET 21005, ECET 22000, ECET 22130 and ECED 30202; and special approval.

**Corequisite:** ECET 22140.

**Schedule Type:** Practical Experience

**Contact Hours:** 12 other

**Grade Mode:** Satisfactory/Unsatisfactory

**Attributes:** Experiential Learning Requirement

## Electrical Engineering and Related Technologies (EERT)

**EERT 10192 OVERHEAD LINE TECHNOLOGY PRACTICUM I (ELR) 5 Credit Hours**

Practical application of electrical overhead line worker job duties in a setting under direct supervision of First Energy Personnel. Prior to enrollment, students must be accepted into the First Energy Power Systems Institute (PSI).

**Prerequisite:** Special approval.

**Schedule Type:** Practical Experience

**Contact Hours:** 15 other

**Grade Mode:** Standard Letter

**Attributes:** Experiential Learning Requirement

**EERT 10292 OVERHEAD LINE TECHNOLOGY II PRACTICUM (ELR) 5 Credit Hours**

Supervised practical application of electrical overhead line worker duties including the use of ladders, rescue operations, and transformers under the supervision of FirstEnergy personnel.

**Prerequisite:** EERT 10192; and special approval.

**Schedule Type:** Practical Experience

**Contact Hours:** 15 other

**Grade Mode:** Standard Letter

**Attributes:** Experiential Learning Requirement

**EERT 12000 ELECTRIC CIRCUITS I 4 Credit Hours**

Direct current circuit analysis involving current and voltage, resistance, energy and power, Ohm's law, series and parallel networks. Mesh and nodal analysis, network theorems and DC instruments.

**Corequisite:** MATH 11010.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 3 lecture, 2 lab

**Grade Mode:** Standard Letter

**Attributes:** CTAG Electrical Engineer Technology, TAG Engineering Technology

**EERT 12001 ELECTRIC CIRCUITS II 3 Credit Hours**

Analysis of capacitive, inductance and magnetic circuits and transients in R-L-C combinations. AC network analysis: mesh and nodal, phasor algebra, power factor, resonance.

**Prerequisite:** EERT 12000.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 2 lecture, 2 lab

**Grade Mode:** Standard Letter

**Attributes:** TAG Engineering Technology

**EERT 12005 ELECTRICAL/ELECTRONIC DRAWING 2 Credit Hours**

Electrical Electronic drawing techniques using current computer-aided design software emphasizing schematic, block and wiring diagrams, document markups, circuit board printing, circuit or power layout is covered as needed.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**EERT 12010 INTRODUCTION TO ELECTRONICS 4 Credit Hours**

Semiconductor theory. Properties and application of PN junctions and bipolar junction transistors, amplifiers, field effect transistors (FET) amplifiers, JFET and MOSFET biasing and their use in simple circuits.

**Prerequisite:** EERT 12000.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 3 lecture, 2 lab

**Grade Mode:** Standard Letter

**Attributes:** TAG Engineering Technology

**EERT 20192 OVERHEAD LINE TECHNOLOGY III PRACTICUM (ELR) 5 Credit Hours**

Supervised practical applications of electrical line worker job duties under the supervision of FirstEnergy personnel. Emphasis on URD equipment, grounding distribution circuits and working with energized three phase circuits.

**Prerequisite:** EERT 10292; and special approval.

**Schedule Type:** Practical Experience

**Contact Hours:** 15 other

**Grade Mode:** Standard Letter

**Attributes:** Experiential Learning Requirement

**EERT 20292 OVERHEAD LINE TECHNOLOGY PRACTICUM IV (ELR) 5 Credit Hours**

Supervised practical application of electrical overhead line worker job duties under the direct supervision of FirstEnergy personnel. Emphasis on line equipment, hot line tools, and transmission.

**Prerequisite:** EERT 20192; and special approval.

**Schedule Type:** Practical Experience

**Contact Hours:** 15 other

**Grade Mode:** Standard Letter

**Attributes:** Experiential Learning Requirement

**EERT 21010 ENGINEERING AND PROFESSIONAL ETHICS 3 Credit Hours**

Application of codes of ethics in the engineering and technology profession reflective of social and moral responsibilities to the public and accountability in engineering practice.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**EERT 21096 INDIVIDUAL INVESTIGATION IN ELECTRICAL/ENGINEERING TECHNOLOGY 1-4 Credit Hours**

(Repeatable for credit) Independent in depth research of an electrical electronic engineering technology topic supervised and coordinated by an engineering technology faculty member.

**Prerequisite:** Permission.

**Schedule Type:** Individual Investigation

**Contact Hours:** 1-4 other

**Grade Mode:** Standard Letter

**EERT 22000 ELECTRICITY/ELECTRONICS WITH APPLICATIONS 3 Credit Hours**

Basic electronics theory and fundamental concepts of electrical/electronic and digital circuits with applications in the various fields of engineering.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**EERT 22002 INDUSTRIAL CONTROLS 3 Credit Hours**

Introduction to control of AC and DC machinery by electromechanical and solid state devices. Study of circuits, troubleshooting methods and logic systems.

**Prerequisite:** EERT 12010 or EERT 22000; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**EERT 22004 DIGITAL SYSTEMS 4 Credit Hours**

Modern integrated digital logic families. Analysis and design of digital circuits such as gates, multivibrators, comparators, counters, registers including interface, control memory and computer circuits. Programmable logic controllers and integrated circuit technologies.

**Prerequisite:** None.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 3 lecture, 2 lab

**Grade Mode:** Standard Letter

**Attributes:** CTAG Electrical Engineer Technology

**EERT 22005 ELECTRONIC INSTRUMENTATION 3 Credit Hours**

Understanding of automation control and process characteristics. Application of various type of measurement devices & control equipments. Use of modern simulation software for process control and troubleshooting.

**Prerequisite:** EERT 12010.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 2 lecture, 2 lab

**Grade Mode:** Standard Letter

**EERT 22006 ELECTRICAL MACHINES 3 Credit Hours**

Introduction to transformer action, losses and efficiency. Fundamentals of DC and AC motors and generators and three phase systems.

**Prerequisite:** EERT 12001.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**EERT 22011 ELECTRONIC SYSTEMS 2 Credit Hours**

Continuation of EERT 12010. Frequency effects, Miller's Theorem, decibel notation and negative feedback, Oscillators, Op-amps, circuits and applications, Thyristors and electronically regulated power supplies.

**Prerequisite:** EERT 12010.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 1 lecture, 2 lab

**Grade Mode:** Standard Letter

**Attributes:** TAG Engineering Technology

**EERT 22014 MICROPROCESSORS AND ROBOTICS 3 Credit Hours**

An introduction to microprocessor system fundamentals, number systems, binary codes, hexa- decimal codes, Programming fundamentals in C, C++ software, Microcontroller hardware architecture and instruction set, with applications to robot systems motor control, sensors.

**Prerequisite:** None.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 2 lecture, 2 lab

**Grade Mode:** Standard Letter

**Attributes:** TAG Engineering Technology

**EERT 22016 PRODUCTIVITY SOFTWARE FOR INDUSTRY 1 Credit Hour**

(Repeatable for a maximum of 3 credit hours) Introduces students to the use of computers for word processing, spreadsheets and database management applications. Students receive hands-on training on the use of the software applicable to engineering problems using hands-on formats.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 1 lab

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**EERT 22018 PC/NETWORK ENGINEERING AND TROUBLESHOOTING 3 Credit Hours**

Covers the service, maintenance, upgrade and optimization of personal computers. Specification, installation and maintenance of local area networks is covered. Students learn communication protocols and network architecture. Two lectures and two labs.

**Prerequisite:** None.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 2 lecture, 2 lab

**Grade Mode:** Standard Letter

**EERT 22095 SPECIAL TOPICS IN ELECTRICAL/ELECTRONIC AND RELATED ENGINEERING TECHNOLOGIES 1-3 Credit Hours**

(Repeatable for credit) Special topics in electrical/electronic engineering technology.

**Prerequisite:** Permission.

**Schedule Type:** Lecture

**Contact Hours:** 1-3 lecture

**Grade Mode:** Standard Letter

**EERT 23000 SENSORS 2 Credit Hours**

A study of sensors, transducers, relays, solenoids, servomotors, actuators, lasers, LEDs, photonic and temperature sensors and electronic devices in electromechanical control.

**Prerequisite:** Sophomore standing.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 2 other

**Grade Mode:** Standard Letter

**EERT 32003 TECHNICAL COMPUTING 3 Credit Hours**

A hands-on introduction to computation, through object-oriented programming and problem solving. Programming in the C++ language.

**Corequisite:** MATH 11010.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**EERT 32005 INSTRUMENTATION 3 Credit Hours**

Introduction to modern industrial controls, interfacing devices, transducer systems, and process control methods.

**Prerequisite:** Junior Standing.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 3 lecture, 1 lab

**Grade Mode:** Standard Letter

## Engineering Technology (ENGT)

**ENGT 12005 APPLICATIONS IN COMPUTER-AIDED DESIGN 2 Credit Hours**

Course for training on the use of a popular, computer-aided drafting and design software. Practice with the advanced features of the software applicable to modern design in the graphics, mechanical, industrial and electronics fields.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**ENGT 20192 INTERNSHIP IN ENGINEERING TECHNOLOGY (ELR) 2 Credit Hours**

(Repeatable for credit) Supervised internship experience in approved business or industrial environment relative to the student's major. The internship experience must be for a period of at least 12 consecutive weeks at 25 hours per week, or 20 hours per week for 15 weeks, totaling not less than 300 hours. Most co-ops occur during the summer.

**Prerequisite:** Sophomore standing; and special approval.

**Schedule Type:** Practical Experience

**Contact Hours:** 20 other

**Grade Mode:** Standard Letter

**Attributes:** Experiential Learning Requirement

**ENGT 22000 STATISTICAL PROCESS CONTROL 4 Credit Hours**

Process variability, process monitoring, statistical methods using control charts for variables and attributes; acceptance sampling plans; process capability, process adjustment, process improvement.

**Prerequisite:** Special approval.

**Schedule Type:** Lecture

**Contact Hours:** 4 lecture

**Grade Mode:** Standard Letter

**ENGT 22003 SUPERVISION AND LABOR RELATIONS 5 Credit Hours**

Practical methods and techniques for improving supervision and labor relations in industry. Personnel and performance evaluation, implementing policy, labor contracts, collective bargaining, wage and salary administration.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 5 lecture

**Grade Mode:** Standard Letter

**ENGT 22006 ECONOMIC DECISION ANALYSIS 3 Credit Hours**

Economic decision making for industrial engineering technology with applications emphasis, estimating economic elements, interest and economic equivalence, methods of comparing alternatives and evaluating replacement alternatives.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** TAG Engineering

**ENGT 22009 ENGINEERING TECHNOLOGY PROJECT 2 Credit Hours**

A practical, hands-on experience which emphasizes the integration of analytical and design skills acquired in companion courses. Students will work in teams under direct faculty supervision. Engineering communication such as reports and oral presentations are covered. The capstone design projects include creative and challenging projects within the engineering discipline.

**Prerequisite:** None.

**Corequisite:** EERT 22014.

**Schedule Type:** Lecture

**Contact Hours:** 1 lecture, 2 lab

**Grade Mode:** Standard Letter

**ENGT 22010 COMPUTER INTEGRATED MANUFACTURING 3 Credit Hours**

Planning, developing and implementing a strategy to control and coordinate all the engineering production and business operations within a manufacturing enterprise.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ENGT 30000 ADVANCED MANUFACTURING 3 Credit Hours**

This course will introduce students to the concepts of advanced manufacturing technologies, processes and equipment. Covered topics include automation and process control, flexible manufacturing systems, and manufacturing using additive processes such as 3D printing. Students will learn hands on programming and operation of relevant equipment during the laboratory sessions.

**Prerequisite:** Junior standing.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 2 lecture, 2 lab

**Grade Mode:** Standard Letter

**ENGT 33095 SPECIAL TOPICS IN ENGINEERING TECHNOLOGY 1-4 Credit Hours**

Special topics of immediate interest in engineering technology.

**Prerequisite:** Junior standing.

**Schedule Type:** Lecture

**Contact Hours:** 1-4 lecture

**Grade Mode:** Standard Letter

**ENGT 42003 LEAN MANUFACTURING, SIX SIGMA AND OPERATIONS TECHNOLOGY 3 Credit Hours**

Designed to provide a better understanding of the components and underlying philosophy of Theory of Constraints, Lean, and Six Sigma and how the elements and philosophies work together to support an companies operational plan.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ENGT 43092 ENGINEERING TECHNOLOGY PRACTICUM (ELR) 1-3 Credit Hours**

(Repeatable for a maximum to 3 credit hours) Supervised work experience. One credit hour for 50 work hours.

**Prerequisite:** None.

**Schedule Type:** Practical Experience

**Contact Hours:** 3.33-10 other

**Grade Mode:** Satisfactory/Unsatisfactory

**Attributes:** Experiential Learning Requirement

## Enology (ENOL)

**ENOL 14600 INTRODUCTION TO ENOLOGY 3 Credit Hours**

Targets people who became interested in home winemaking with possibilities to grow into the small business opportunity, as well as cellar employees interested in winemaking career. During this course, students build proper basic understanding of winemaking which alleviates common home winemaker's errors.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter-IP

**ENOL 14800 WINERY SANITATION 3 Credit Hours**

The basic science and technology of winery sanitation that includes an introduction to wine microbiology. Covers all methods used for winery sanitation including premises, tanks, pumps, filters, oak barrels and sampling equipment, including but not limited to chemical agents, reagents and thermal treatments leading to sterile bottling. Environmental issues and compliance are also addressed.

**Prerequisite:** ENOL 14600.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter-IP

**ENOL 16000 WINERY EQUIPMENT OPERATION 2 Credit Hours**

Covers process technologies and process systems used in modern commercial wineries. Overview of winemaking systems, including work place safety, cleaning and sanitation procedures, winemaking equipment and materials, tanks, barrels and barrel alternatives, filtration systems and bottling equipment. Also touches upon on chillers and electrical needs.

**Prerequisite:** ENOL 14600.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter-IP

**ENOL 21000 INTRODUCTION TO WINE MICROORGANISMS 3 Credit Hours**

Introduction to the basic principles of wine microbiology and the variety of microorganisms frequently encountered in the wine making process. Yeasts, bacteria and molds play vital roles in the production of wine, both beneficial and harmful. Students become familiar with the morphology, reproduction and sensory attributes of wine microorganisms in order to understand their influence on winemaking and to be able to manage them effectively.

**Prerequisite:** ENOL 14600.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 2.5 lecture, 1 lab

**Grade Mode:** Standard Letter-IP

**ENOL 24600 INTERMEDIATE ENOLOGY - HARVEST AND CRUSH 2 Credit Hours**

Focused on advanced science and technology concepts of winemaking as it relates to pre-harvest, fruit harvest, and procedures involved in juice and must preparation. Builds on the fundamentals taught in Introduction to Enology, Molecular Principles of Grape and Wine, and Wine Microbiology.

**Prerequisite:** ENOL 14600.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 1.5 lecture, 1 lab

**Grade Mode:** Standard Letter-IP

**ENOL 24700 INTERMEDIATE ENOLOGY - POSTHARVEST 2 Credit Hours**

Focused on advanced science and technology concepts of winemaking as it relates to post harvest procedures involved in stabilization, clarification, fining, and bottling. Builds on the fundamentals taught in Introduction to Enology, Molecular Principles of Grape and Wine, Wine Microbiology, Wine and Must Analysis, and Intermediate Enology Harvest and Crush.

**Prerequisite:** ENOL 14600 and ENOL 24600.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 1.5 lecture, 1 lab

**Grade Mode:** Standard Letter-IP

**ENOL 25792 FALL WINE PRODUCTION FIELD WORK (ELR) 3 Credit Hours**

Principles of grape juice and wine analysis and the reasons for use of each analysis. Analyses of a practical and useful nature are chosen for the laboratory exercises demonstrating various chemical, physical and biochemical methods. Students participate in workshops and hands-on experiences at participating wineries.

**Prerequisite:** ENOL 14600; and ENOL 14800; and ENOL 16000.

**Corequisite:** ENOL 24600.

**Schedule Type:** Field Experience, Lecture

**Contact Hours:** .5 lecture, 2.5 other

**Grade Mode:** Standard Letter-IP

**Attributes:** Experiential Learning Requirement

**ENOL 25992 CELLAR OPERATIONS FIELD WORK (ELR) 2 Credit Hours**

Provide students initiated in the field of enology with actual and practical exposure to the technology of wine making as is performed during the passive vineyard periods associated with winter and spring. Students are expected to improve their understanding of the methods and science involved by on-site participation in each of the various activities associated with finished wine production. Course serves as actual practical exposure and may qualify as experience for those seeking employment in commercial enology.

**Prerequisite:** ENOL 25792.

**Schedule Type:** Field Experience, Lecture

**Contact Hours:** .6 lecture, 4.25 other

**Grade Mode:** Standard Letter-IP

**Attributes:** Experiential Learning Requirement



**ENOL 26600 SENSORY EVALUATION 3 Credit Hours**

Intended for those individuals who need to develop an understanding of the principles of sensory evaluation used in commercial wine making. It also benefits wine enthusiasts interested in reaching advanced levels of appreciation, as well wine producers, wine merchants and enologists, who by the nature of their profession need to discern flavors and establish tasting benchmarks. Students practice sensory analysis at home and in workshops to further their sensory evaluation skills and techniques.

**Prerequisite:** ENOL 14600.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 2.5 lecture, 1 lab

**Grade Mode:** Standard Letter-IP

**ENOL 26800 WINE AND MUST ANALYSIS 3 Credit Hours**

Principles of grape juice and wine analysis and the reasons for use of each analysis. Analyses of a practical and useful nature are chosen for the laboratory exercises demonstrating various chemical, physical and biochemical methods. Students participate in workshops and hands-on experiences at participating wineries.

**Prerequisite:** ENOL 14600.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 2.5 lecture, 1 lab

**Grade Mode:** Standard Letter-IP

## Environmental Health and Safety (EVHS)

**EVHS 10001 ENVIRONMENTAL TECHNOLOGY I 3 Credit Hours**

Survey course in environmental technology, including health and safety, history, environmental compliance and related issues.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**EVHS 10004 TOXICOLOGY 3 Credit Hours**

Examination of the terminology and classification of poisons that affect humans. Includes poison sources, modes of exposure, health effects and control measures.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**EVHS 10010 INDUSTRIAL HYGIENE I 4 Credit Hours**

In-depth study of safety methods and procedures with lab for identifying, monitoring, handling, containing and disposing of hazardous substances and hazardous conditions in the workplace.

**Prerequisite:** EVHS 10004.

**Schedule Type:** Lecture

**Contact Hours:** 4 lecture

**Grade Mode:** Standard Letter

**EVHS 20001 ENVIRONMENTAL LAW 3 Credit Hours**

Emphasize civil, criminal and tort liability issues; procedural and constitutional requirements; and administrative codes, rules and regulations for fire, health, safety and environmental hazards.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**EVHS 20004 ENVIRONMENTAL HEALTH AND SAFETY I 3 Credit Hours**

Examination of hazards assessment including organizational, environmental and disaster planning; health and safety inspection and reporting criteria; and first aid procedures.

**Prerequisite:** EVHS 10001.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**EVHS 20008 ENVIRONMENTAL SAFETY ADMINISTRATION 3 Credit Hours**

Organization and operation of environmental safety unit; relationships with business governmental and community entities involved in environmental safety and hazards control.

**Prerequisite:** EVHS 10010.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**EVHS 20092 ENVIRONMENTAL TECHNOLOGY INTERNSHIP I (ELR) 3 Credit Hours**

(Repeatable for credit) This on- or off campus experience gives students an opportunity to apply learned concepts in the classroom to practical environmental technology situations.

**Prerequisite:** EVHS 20008.

**Schedule Type:** Practical Experience

**Contact Hours:** 21 other

**Grade Mode:** Standard Letter

**Attributes:** Experiential Learning Requirement

**EVHS 21010 INDUSTRIAL HYGIENE II 4 Credit Hours**

Emphasis is placed on methodologies of gas, vapor, and aerosol sampling; including instrumentation function and calibration. Measurement and evaluation of physical hazards including noise, heat stress, lighting and radiation hazards. Includes a major emphasis upon the types of problems and calculations likely to be found in general industry. Laboratory exercises and use of a case study to explore the methods of sampling.

**Prerequisite:** BSCI 10120; and CHEM 10052; and EVHS 10010.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture, 1 lab

**Grade Mode:** Standard Letter

**EVHS 21092 ENVIRONMENTAL TECHNOLOGY INTERNSHIP II (ELR) 3 Credit Hours**

(Repeatable for credit) This on-or off-campus experience gives students an opportunity to apply learned concepts in the classroom to practical environmental technology situations.

**Prerequisite:** EVHS 20092; and special approval.

**Schedule Type:** Practical Experience

**Contact Hours:** 21 other

**Grade Mode:** Standard Letter

**Attributes:** Experiential Learning Requirement

**EVHS 22095 SPECIAL TOPICS IN ENVIRONMENTAL HEALTH AND SAFETY 3 Credit Hours**

(Repeatable for a total of 6 hours) Specialized instruction oriented primarily to application of current technology developed for the field of environmental technology. Course is repeatable as the specific topics will vary.

**Prerequisite:** Special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**EVHS 22096 INDIVIDUAL INVESTIGATION IN ENVIRONMENTAL HEALTH AND SAFETY 1-3 Credit Hours**

(Repeatable for credit) Independent research of environmental technology topic supervised by an environmental technology faculty member.

**Prerequisite:** Special approval.

**Schedule Type:** Individual Investigation

**Contact Hours:** 1-3 other

**Grade Mode:** Standard Letter

**EVHS 30002 ENVIRONMENTAL ISSUES II 3 Credit Hours**

Current topics in environmental technology including climate change and alternate energy sources.

**Prerequisite:** EVHS 10001.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**EVHS 30020 HAZARDOUS WASTE OPERATIONS AND EMERGENCY RESPONSE 4 Credit Hours**

Study of hazardous waste operations and emergency response to release of hazardous materials in compliance with EPA and OSHA regulations (29CFR 1910.120).

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 4 lecture

**Grade Mode:** Standard Letter

**EVHS 40006 FIRE PREVENTION AND CONTROL 3 Credit Hours**

Conditions and properties conducive for combustible states and hazards; techniques and procedures for fire extinguishing and control; preventative strategies; fire codes and alarm systems.

**Prerequisite:** EVHS 10001.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

## Green and Alternate Energy (GAE)

**GAE 32000 FUEL CELL TECHNOLOGY 3 Credit Hours**

Designed to provide a general perspective to fuel cell technology. Students are introduced to the various types of fuel cells, historical perspective, terminology, applications, fuel cell operation, basic electrochemical and thermodynamics principles involved in fuel cells, fuel cell components, materials and systems. Students learn basic fuel cell design principles and calculations.

**Prerequisite:** PHY 13012 or PHY 13002.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**GAE 42002 ENERGY MANAGEMENT SYSTEMS 3 Credit Hours**

This course covers an introduction to energy fundamentals, energy systems, lighting, heating, ventilation and air conditioning, control systems for energy management. Alternative energy sources and green buildings will also be covered. The course focuses on improving energy efficiency, reducing energy use, and reducing energy cost.

**Prerequisite:** PHY 12202 or PHY 13002 or PHY 13012.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**GAE 42004 ADVANCED FUEL CELL TECHNOLOGY 3 Credit Hours**

Covers the theory and applications of fuel cell technology with an emphasis to proton exchange membrane fuel cells (PEMFCs). Students learn fuel cell component, stack and system design principles and fabrication methods, performance characterization, fuel cell testing and diagnostics methods. Students are introduced to transport phenomena in fuel cells. Introduction to hydrogen storage, generation and delivery, as well as hydrogen safety and regulations.

**Prerequisite:** GAE 32000.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

## Horticulture (HORT)

**HORT 10195 SPECIAL TOPICS IN HORTICULTURE 1-3 Credit Hours**

(Repeatable for credit) Analysis of significant and current issues in horticulture not covered in regular courses.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 1-3 lecture

**Grade Mode:** Standard Letter

**HORT 16001 INTRODUCTION TO HORTICULTURE 1 Credit Hour**

A survey of those opportunities available within the 'green industry' both in education and as a career option. Guest speakers and field trips are part of the class.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 1 lecture

**Grade Mode:** Standard Letter

**HORT 16010 FLORAL DESIGN I 3 Credit Hours**

Introduction to the concepts and practices of floral design for use in commercial settings. Topics include floral design theory, history, techniques and the skills required in the commercial floral design industry. Lab experience covers construction of basic floral products.

**Prerequisite:** None.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 2 lecture, 2 lab

**Grade Mode:** Standard Letter

**HORT 16011 FLORAL DESIGN II 3 Credit Hours**

Advanced training in a broad array of floral design applications including wedding design, contemporary European and Asian design, tropical flowers and outdoor compositions. Students will be provided hands-on laboratory activities to apply the principles of design.

**Prerequisite:** None.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 2 lecture, 2 lab

**Grade Mode:** Standard Letter

**HORT 16020 PLANT MATERIALS I 3 Credit Hours**

Design, selection, culture, and maintenance of flowering plants and foliage including annuals, perennials, bulbs and tropical plants for indoor and outdoor use.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HORT 16021 WHOLESALE FLORICULTURE 3 Credit Hours**

Commercial production, marketing, inventory management and post-harvest care associated with the floriculture industry.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HORT 16022 GREENHOUSE STRATA 3 Credit Hours**

Introduction to growing containerized plants in greenhouses and nurseries. Emphasis will be on issues related to traditional and alternative substrates, root media, irrigation practices, and soil matter.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HORT 26001 OCCUPATIONAL REGULATIONS AND SAFETY 2 Credit Hours**

Presentation of the basic standards, rules, safety regulations and laws pertaining to horticultural and related industries which will affect the work atmosphere. Lecture two hours weekly; offered only at the Geauga and Salem campuses.

**Corequisite:** BSCI 16001 and HORT 16001.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**HORT 26010 ARBORICULTURE 3 Credit Hours**

Basics of pruning and tree climbing techniques. Covers the equipment and safe use of equipment commonly found in the arboricultural industry. Lecture two hours weekly; lab three hours weekly; offered only at the Salem campuses.

**Prerequisite:** BSCI 16001 and HORT 16001.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 2 lecture, 3 lab

**Grade Mode:** Standard Letter

**HORT 26011 COOPERATIVE WORK EXPERIENCE IN TREE CARE 3 Credit Hours**

(Repeatable for credit) Cooperative work program through which the skills necessary to perform professionally in this occupation will be acquired. This course offered only at the Salem Campus. Requires a minimum of 30 hours per week of work experience. Not more than 9 semester hours in this or a combination of other work experience classes will be allowed.

**Corequisite:** HORT 26010.

**Schedule Type:** Field Experience

**Contact Hours:** 3 lecture

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**HORT 26012 URBAN FORESTRY 3 Credit Hours**

Urban forestry and the planning and managing of urban green-scapes. Appraisal and computerized GIS/GPS inventory of urban vegetation, urban land use planning and legal ordinances, maintenance and management of street and park trees. Outdoor field trips and guest lecturers.

**Prerequisite:** HORT 16001 and BSCI 16001.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HORT 26016 IRRIGATION DESIGN AND MAINTENANCE 3 Credit Hours**

Principles of irrigation design, installation maintenance and drainage. Specific information about the selection of sprinkler heads, pipe, pumps, basic hydraulics, water conservation methods and automatic control systems shall be explored. Drawing of irrigation plans shall be required.

**Prerequisite:** HORT 16001 and BSCI 16001.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**HORT 26018 LANDSCAPE CONSTRUCTION 3 Credit Hours**

The basic skills and techniques involved in landscape contracting and construction, including building material data, site grading, contour mapping, deck construction, water features, lighting, landscape paving and retaining walls. Field trips and outside hands-on experience.

**Prerequisite:** HORT 16001 or advisor's approval.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**HORT 26020 LANDSCAPE MANAGEMENT 3 Credit Hours**

A detailed discussion and practice of managing trees, shrubs and flowers within the landscape. Additional concepts such as the types of equipment used in the 'green industry', marketing, writing specifications, bidding projects and personnel management.

**Prerequisite:** BSCI 16001 and HORT 16001.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** CTAG Horticulture

**HORT 26021 COOPERATIVE WORK EXPERIENCE IN LANDSCAPE MANAGEMENT 3 Credit Hours**

(Repeatable for credit) Cooperative work program through which the skills necessary to perform professionally in this occupation will be acquired. This course offered only at the Salem Campus. Requires a minimum of 30 hours per week of work experience. Not more than 9 semester hours in this or a combination of other work experience will be allowed.

**Corequisite:** HORT 26020.

**Schedule Type:** Field Experience

**Contact Hours:** 3 lecture

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**HORT 26030 TURF GRASS MANAGEMENT 3 Credit Hours**

Basic principles of turf management. Covers turf equipment and the safe use of equipment commonly found in the turf industry. Lecture two hours weekly; lab three hours weekly; course offered only at the Salem campus.

**Prerequisite:** BSCI 16001 and HORT 16001.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 2 lecture, 3 lab

**Grade Mode:** Standard Letter

**Attributes:** CTAG Horticulture

**HORT 26031 COOPERATIVE WORK EXPERIENCE IN TURF GRASS MANAGEMENT 3 Credit Hours**

(Repeatable for Credit) Cooperative work program through which the skills necessary to perform professionally in this occupation will be acquired. This course offered only at the Salem Campus. Requires a minimum of 30 hours per week of work experience. Not more than 9 semester hours in this or a combination of other work experience classes will be allowed.

**Corequisite:** HORT 26030.

**Schedule Type:** Field Experience

**Contact Hours:** 3 lecture

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**HORT 26032 GOLF COURSE MANAGEMENT 3 Credit Hours**

The golf course environment as it relates to turf grass maintenance and pest/disease management. The construction and management of greens, tees, water and bunker management practices, turf aerification issues, topdressing and administrative concerns.

**Prerequisite:** HORT 16001 and HORT 26031 and BSCI 16001.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HORT 26046 LANDSCAPE DESIGN I 3 Credit Hours**

An introduction to landscape appreciation and history, the landscape industry and elements of the landscape design process. Students will assess proper plant placement and uses, develop graphic communication skills and present a project. Field trips and project site work as required.

**Prerequisite:** HORT 16001 and BSCI 16001 and BSCI 26003.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 2 lecture, 4 lab

**Grade Mode:** Standard Letter

**HORT 30195 SPECIAL TOPICS IN HORTICULTURE 3 Credit Hours**

(Repeatable for credit) Analysis of significant and current topics in horticulture not covered in regular classes.

**Prerequisite:** None.

**Schedule Type:** Laboratory, Lecture, Combined Lecture and Lab

**Contact Hours:** 2 lecture, 2 lab

**Grade Mode:** Standard Letter

**HORT 36014 PLANT PROPAGATION AND GREENHOUSE PRODUCTION 3 Credit Hours**

Asexual/vegetative propagation including anatomical and physical concepts. Techniques covered include cuttings, budding, grafting, layering, dividing and micropropagation. Plant propagation by seeding and plugs are promoted along with crop production. Students provide an annual production schedule. Lecture two hours weekly; lab three hours weekly.

**Prerequisite:** HORT 16001 and BSCI 16001.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 2 lecture, 3 lab

**Grade Mode:** Standard Letter

**HORT 36018 LANDSCAPE CONSTRUCTION II 3 Credit Hours**

Advanced landscape construction techniques involved in landscape contracting with an emphasis on the overall layout and planning of a landscape project. Students master and research product documentation, layout plans, written specifications and detailed construction drawings as they pertain to built landscape environments. Specific field site work with real world applications. Lecture two hours weekly; lab 3 hours weekly.

**Prerequisite:** HORT 26018; and junior or senior standing.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 2 lecture, 3 lab

**Grade Mode:** Standard Letter

**HORT 36025 PROFESSIONAL PRACTICE IN HORTICULTURE (WIC) 3 Credit Hours**

Investigation into owning and operating a green industry company including customer relations, wholesale and retail marketing, project bidding, potential profit and loss margins, communication requirements, and overall services to public and private clientele.

**Prerequisite:** HORT 26001 and HORT 26016 and HORT 26018.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Writing Intensive Course

**HORT 36034 SPORTS TURF MANAGEMENT 3 Credit Hours**

Identification of grass plant species; culture and morphology; turf ecology with practical information on turf establishment and cultural practices. Covers issues of design, renovation, and maintenance of sports grounds and facilities. Class requires 20 hours service learning component.

**Prerequisite:** HORT 26030; and junior or senior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HORT 36046 LANDSCAPE DESIGN II 3 Credit Hours**

Advanced landscape design looking at overall landscape planning, including site and planting design, site amenities, irrigation design and client needs. Special attention to communication formats such as color rendering and graphics, as well as to overall presentation. Some design modeling and graphic sketching are included.

**Prerequisite:** HORT 26012 or HORT 26032 or HORT 26046; and junior or senior standing.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 2 lecture, 3 lab

**Grade Mode:** Standard Letter

**HORT 36092 INTERNSHIP IN HORTICULTURE (ELR) 1-4 Credit Hours**

(Repeatable for credit) Internship experience in an advanced field of study within the horticulture/green industry, building on the student's understanding of science-based fundamentals. Internship requires a minimum of 210 working hours with an approved public organization or private green industry firm, and 2 hours per week consultation on independent research as approved and supervised by the academic program director. Work includes supporting documentation and written reports as deemed appropriate give the subject studied.

**Prerequisite:** Special approval.

**Schedule Type:** Practical Experience

**Contact Hours:** 3-12 other

**Grade Mode:** Standard Letter

**Attributes:** Experiential Learning Requirement

**HORT 41096 INDIVIDUAL INVESTIGATION IN HORTICULTURE 1-3 Credit Hours**

(Repeatable for credit) Research under the direction of a horticulture faculty/program director mentor. Investigation of specific horticulture topics that build upon previous concentration areas of study.

**Prerequisite:** Junior or senior standing.

**Schedule Type:** Individual Investigation

**Contact Hours:** 1-3 other

**Grade Mode:** Standard Letter-IP

**HORT 46014 GARDEN CENTER AND NURSERY PRODUCTION MANAGEMENT 3 Credit Hours**

Survey of plant production of container, bare-root, balled-in-burlap plant materials in a nursery setting. Exploration of physiological principles involved, including planting, maturity dates for harvest, shipping, garden center activities and wholesale and retail marketing of stock.

**Prerequisite:** BSCI 26002 and BMRT 11000; and junior or senior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HORT 46092 PRACTICUM IN HORTICULTURE (ELR) 3 Credit Hours**

(Repeatable for credit) An in-depth individual project, combining field experiences with original research within a green industry niche. Area of interest supports the student's educational goals given their intended concentration of past class work.

**Prerequisite:** HORT 36092; and junior or senior standing.

**Schedule Type:** Practical Experience

**Contact Hours:** 16 other

**Grade Mode:** Standard Letter-IP

**Attributes:** Experiential Learning Requirement

## Human Services (HSRV)

**HSRV 11000 FOUNDATIONS OF HUMAN SERVICES 3 Credit Hours**

An overview of the roles, history, values, systems, policies, theories and core conceptions of the human services professions across a range of social problems including child abuse and neglect, addictions, poverty, aging, mental health and illness, prevention and corrections, etc., and society's response through the human service delivery system.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** TAG Social and Behavioral Sciences

**HSRV 11001 GROUP METHODS IN HUMAN SERVICES 3 Credit Hours**

Introduction to theory, research and application of the practice, structure and function, analysis, problem solving strategies and skills in working with small groups with respect to the cultural context, types of groups and special populations such as addiction are addressed from a systems perspective within the human services purposes, values and ethics framework.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HSRV 11002 SURVEY OF COMMUNITY RESOURCES 3 Credit Hours**

A survey of providers at the federal, regional, state and local levels, including services provided and regulations of private and public agencies.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HSRV 21000 DYNAMICS OF HELPING RELATIONSHIPS 3 Credit Hours**

Introduction to communication skills in systems of professional practice with emphasis on skill development in motivational interviewing, principles of effective communication, functions and purposes of communication, active listening, building empathy, establishing therapeutic rapport, case conceptualization and provisions of assistance.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HSRV 21001 ASSESSMENT METHODS IN HUMAN SERVICES 3 Credit Hours**

Introduction to client assessment, intervention and evaluation methods for generalist practice within a strengths based recovery model with emphasis on the biopsychosocial development across the lifespan. Understanding of mental illness, addictions, developmental disabilities and the impact of trauma, etc.; utilization of specific assessment skills and tools including: stages of change, level of care, recovery and resiliency, crisis response and de-escalation, etc.

**Prerequisite:** HSRV 11000 or HSRV 21003; or permission.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HSRV 21002 COMMUNITY SUPPORTIVE CASE MANAGEMENT AND ADVOCACY IN HUMAN SERVICES 3 Credit Hours**

Introduction to the purposes, intent and activities of a community supportive case manager: assessment, facilitation and coordination of services, linkage, referral, coordination assistance in crisis management and stabilization, outreach, education, training; intervention, support and elimination of barriers to autonomy. Develop an understanding of systems of care; and population characteristics: mental health, addiction, recovery, culture, age, and gender, etc. with emphasis on advocacy in human services practices. Recommend students take HST 21001 in preparation.

**Prerequisite:** HSRV 11000 or HSRV 21003, or permission.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter



**HSRV 21003 SOCIAL WELFARE IN HUMAN SERVICES 3 Credit Hours**

Introduction to the history and development of social welfare including current federal and state social policy in the delivery of services; understanding of ideologies, values and ethics forming the social services foundation; financial, organizational and administrative structures influencing social services; fields of practice, populations served, mechanisms of poverty, oppression and discrimination; diversity issues in delivery of services and empowering at risk and vulnerable populations.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** TAG Social and Behavioral Sciences

**HSRV 21092 INTERNSHIP IN HUMAN SERVICES I (ELR) 3 Credit Hours**

(Repeatable for credit) Supervised field experience in a human service agency totaling equivalent of 315 hours. Joint university-agency supervision.

**Prerequisite:** Special approval.

**Schedule Type:** Practical Experience

**Contact Hours:** 21 other

**Grade Mode:** Standard Letter

**Attributes:** Experiential Learning Requirement

**HSRV 21095 SPECIAL TOPICS IN HUMAN SERVICES 1 Credit Hour**

(Repeatable for credit) Discussion of a major topic within human services.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 1 lecture

**Grade Mode:** Standard Letter

**HSRV 21192 INTERNSHIP IN HUMAN SERVICES II (ELR) 3 Credit Hours**

(Repeatable for credit) Continued supervised field experience in a human services agency totaling 315 hours equivalent. Joint university-agency supervision.

**Prerequisite:** Special approval.

**Schedule Type:** Practical Experience

**Contact Hours:** 21 other

**Grade Mode:** Standard Letter

**Attributes:** Experiential Learning Requirement

## Information Technology (IT)

**IT 11000 INTRODUCTION TO OFFICE PRODUCTIVITY APPS 3 Credit Hours**

(Equivalent to CIS 24053) Covers the basic concepts and use of computer systems, including hardware, personal productivity software, Internet usage and file management.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** TAG Business

**IT 11002 VISUAL BASIC PROGRAMMING 3 Credit Hours**

Visual Basic.NET language introducing concepts of object-oriented, event-driven program design and implementation. .

**Prerequisite:** IT None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**IT 11004 SURVEY OF INFORMATION TECHNOLOGY 3 Credit Hours**

Overview introduction to information technologies, career paths and professional certifications available.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**IT 11005 INTRODUCTION TO OPERATING SYSTEMS AND NETWORKING TECHNOLOGY 3 Credit Hours**

Survey of desktop and network operating systems essentials, including file and disk management, system tools utilization, resource sharing and introductory network concepts.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**IT 11006 INTRODUCTION TO WEB SITE TECHNOLOGY 3 Credit Hours**

Focuses on website technologies, including HTML. Students learn the history of the Internet and effective search techniques.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**IT 11009 COMPUTER ASSEMBLY AND CONFIGURATION 4 Credit Hours**

Covers disk operating system functions and features; hardware/software installation procedures; file and directories management; system configuration/optimization; backup procedures.

**Prerequisite:** CS 33211 or EMAT 26010 or IT 11005 or ENGR 10001.

**Schedule Type:** Lecture

**Contact Hours:** 4 lecture

**Grade Mode:** Standard Letter

**IT 12000 INTERMEDIATE OFFICE PRODUCTIVITY APPS 3 Credit Hours**

Covers intermediate concepts and integration of computer applications. Emphasis on software suites, specifically word processing, electronic spreadsheets, database and presentation applications.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**IT 13000 APPLIED SECURITY ESSENTIALS 3 Credit Hours**

Course covering a basic introduction to securing connected devices.

Topics include computer security, Internet security, and mobile security.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**IT 20001 C++ PROGRAMMING 3 Credit Hours**

Course using C++ introducing concepts of software development, object-oriented event-driven programming, testing and debugging, simple and complex data types language syntax and semantics.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**IT 20011 JAVA PROGRAMMING 3 Credit Hours**

Course using Java introducing concepts of software development, object-oriented event-driven programming, testing and debugging, simple and complex data types, language syntax and semantics.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**IT 20021 C# PROGRAMMING 3 Credit Hours**

Introductory concepts of C#: development environment, variables, decisions, looping, arrays, strings, methods, exception and event handling.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**IT 21002 NETWORK SETUP AND CONFIGURATION 4 Credit Hours**

Introduces networking in local area network (LAN) and wide area network (WAN) environments. Topics include network protocol, configuration, operation, setup, installation, administration, management and security.

**Pre/corequisite:** IT 11009.

**Schedule Type:** Lecture

**Contact Hours:** 4 lecture

**Grade Mode:** Standard Letter

**IT 21005 VISUAL BASIC DATABASE PROGRAMMING 4 Credit Hours**

Advanced course in the visual basic language focusing on database systems development.

**Prerequisite:** CS 13001 or EMAT 15310 or IT 11002 or CIS 24065.

**Schedule Type:** Lecture

**Contact Hours:** 4 lecture

**Grade Mode:** Standard Letter

**IT 21007 CYBER ETHICS IN INFORMATION TECHNOLOGY 3 Credit Hours**

Covers the ethics, issues and policies regarding the Internet. Course includes discussion/research on intellectual property/freedom, hacking, pornography, privacy.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**IT 21008 COMPUTER METHODS IN SCIENCE AND ENGINEERING 3 Credit Hours**

Use of computers in problems related to science and engineering. Course includes introduction to elements of a high-level scientific language.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**IT 21009 SEMINAR IN INFORMATION TECHNOLOGY 3 Credit Hours**

Capstone course encompassing critical reading, writing and discussion applying the current theories of computer technologies to on-the-job experiences. Students develop a portfolio to confirm their level of knowledge.

**Prerequisite:** IT 11005 and IT 11006 and IT 11009 and IT 21002 and IT 21010.

**Schedule Type:** Seminar

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**IT 21010 WORKGROUP PRODUCTIVITY SOFTWARE 3 Credit Hours**

Research project-oriented course emphasizing workgroup methodologies for group project management, problem definition, data retrieval and analysis, conclusions and recommendations.

**Prerequisite:** IT 12000; or OTEC 16639 and OTEC 26611.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**IT 21011 TECHNIQUES OF MULTIMEDIA WEB DESIGN 3 Credit Hours**

Focuses on developing and managing effective web sites using multimedia elements, including sound and video.

**Prerequisite:** IT 11006 or EMAT 13210.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**IT 21036 WEB SCRIPTING I 3 Credit Hours**

Course focuses on client-side scripting needed to create interactive and dynamic websites. The use of scripting in context with various technologies is explored.

**Prerequisite:** CS 13001 and CS 27101; or EMAT 15310; or IT 11002 and IT 11006; or CIS 24065; or ENGR 26301.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**IT 21092 COMPUTER PRACTICUM (ELR) 1-3 Credit Hours**

(Repeatable for credit) Supervised work experience in information technology environment; 45 hours supervised work experience per credit hour.

**Prerequisite:** Sophomore standing.

**Schedule Type:** Practical Experience

**Contact Hours:** 3-9 other

**Grade Mode:** Standard Letter

**Attributes:** Experiential Learning Requirement

**IT 21095 SPECIAL TOPICS IN INFORMATION TECHNOLOGY 1-4 Credit Hours**

(Repeatable for credit) Topics announced when scheduled.

**Prerequisite:** Special approval.

**Schedule Type:** Lecture

**Contact Hours:** 1-4 lecture

**Grade Mode:** Standard Letter

**IT 21096 INDIVIDUAL INVESTIGATION IN INFORMATION TECHNOLOGY 1-4 Credit Hours**

(Repeatable for credit) Individual study in computer field.

**Prerequisite:** Special approval.

**Schedule Type:** Individual Investigation

**Contact Hours:** 7-28 other

**Grade Mode:** Standard Letter

**IT 21100 LOCAL AREA NETWORK TROUBLESHOOTING 3 Credit Hours**

Covers local area network troubleshooting techniques. Topics include identifying the scope of the problem, systematic troubleshooting approaches, problem resolution and ongoing maintenance.

**Prerequisite:** CS 33211 or EMAT 26010 or IT 21002 or; ENGR 23010 and ENGR 26301.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**IT 21110 INTRODUCTION TO ROUTING AND SWITCHING 3 Credit Hours**

Introduces internetworking concepts. Topics include networking standards, cabling, Transmission Control Protocol/Internet Protocol (TCP/IP), router configuration, local area network (LAN) and wide area network (WAN) segments and other related topics.

**Prerequisite:** CS 33211 or EMAT 26010 or IT 21002; or TECH 23010 and TECH 26301.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**IT 21200 ETHICAL HACKING 3 Credit Hours**

Tools and techniques ethical hackers and security testers use to discover vulnerabilities and solutions to protect computer networks.

**Prerequisite:** CS 33211 or EMAT 26010 or IT 21002; or ENGR 23010 and ENGR 26301.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**IT 21300 INTRODUCTION TO SECURITY INCIDENT MANAGEMENT 3 Credit Hours**

Course covering an introduction to defending against cyber attackers.

**Prerequisite:** Sophomore standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**IT 22000 SURVEY OF IT CYBERSECURITY 3 Credit Hours**

Course introduces students to cybersecurity in information technology. Topics include authentication, encryption, enterprise computing, the role of users in security, data management and end-to-end security in networking.

**Prerequisite:** CS 33211 or EMAT 26010 or IT 21002; or ENGR 23010 and ENGR 26301.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**IT 23000 INTRODUCTION TO OPERATING SYSTEM SECURITY 3 Credit Hours**

Course introducing operating system security configurations, considerations, and best practices.

**Prerequisite:** CS 33211 or EMAT 26010 or IT 21002; or ENGR 23010 and ENGR 26301.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**IT 24000 DEVELOPING AND IMPLEMENTING SECURITY POLICIES 3 Credit Hours**

This course covers governance, legal considerations, and regulations related to information security policy development and implementation.

**Prerequisite:** CS 33211 or EMAT 26010 or IT 21002; or ENGR 23010 and ENGR 26301.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**IT 31002 HEALTH INFORMATION TECHNOLOGY SUPPORT 3 Credit Hours**

Course covers skills and knowledge required to implement and support healthcare IT (HIT) systems including regulatory and compliance issues; organizational behavior, IT and medical business operations; best practices and security.

**Prerequisite:** Junior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**IT 32002 LINUX NETWORKING 4 Credit Hours**

Course covering network administration topics with the Linux operating system. Topics include distributions, storage solutions, network services and current security practices.

**Prerequisite:** CS 33211 or EMAT 26010 or IT 21002; or ENGR 23010 and ENGR 26301.

**Schedule Type:** Lecture

**Contact Hours:** 4 lecture

**Grade Mode:** Standard Letter

**IT 36095 SPECIAL TOPICS IN INFORMATION TECHNOLOGY 1-3 Credit Hours**

(Repeatable for credit) Special topics from all areas of information technology.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 1-3 lecture

**Grade Mode:** Standard Letter

**IT 36301 ADVANCED C++ PROGRAMMING 4 Credit Hours**

Course using C++ classes and data abstraction, stream IO, inheritance, standard template library, Microsoft Foundation Classes, system programming concepts using Unified Modeling Language.

**Prerequisite:** IT 20001.

**Schedule Type:** Lecture

**Contact Hours:** 4 lecture

**Grade Mode:** Standard Letter

**IT 36302 ADVANCED C# PROGRAMMING 3 Credit Hours**

Advanced concepts of C# including classes and objects, inheritance, polymorphism, arrays, exception handling, files and streams and Extensible Application Markup Language (XAML).

**Prerequisite:** IT 20021.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**IT 36303 DIGITAL IMAGE MANIPULATION 3 Credit Hours**

Course covers various concepts involved in the creation and manipulation of digital images.

**Prerequisite:** IT 11006 or EMAT 13210.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**IT 36308 ERGONOMICS IN COMPUTER SYSTEMS 3 Credit Hours**

Introduction to ergonomics, usability design and assessment methods for the development of computer hardware, software and systems.

**Prerequisite:** Junior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**IT 36309 PROGRAMMING MOBILE APPLICATIONS 3 Credit Hours**

Introduces the unique program design considerations required by mobile devices. The course focuses on creating programs that can be deployed on different devices.

**Prerequisite:** CS 13001 or EMAT 15310 or IT 11002 or IT 20001 or IT 20011 or IT 20021 or CIS 24065.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**IT 36310 MULTIMEDIA DEVELOPMENT TOOLS 3 Credit Hours**

Course focuses on advanced technologies for Web development, including DHTML, plug-ins, etc. Students learn to create more interactive and dynamic websites.

**Prerequisite:** IT 21011 or EMAT 13210.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**IT 36311 ADVANCED JAVA PROGRAMMING 4 Credit Hours**

Course using Java abstract data types and objects, object-oriented, event-driven design, file organization and access, and systems programming concepts.

**Prerequisite:** IT 20011.

**Schedule Type:** Lecture

**Contact Hours:** 4 lecture

**Grade Mode:** Standard Letter

**IT 36314 SEMINAR IN EMERGING COMPUTER AND INFORMATION TECHNOLOGIES 3 Credit Hours**

Survey of new and emerging technologies in computer and information technology.

**Prerequisite:** Junior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**IT 36315 CERTIFICATION PREPARATION IN INFORMATION TECHNOLOGY 3 Credit Hours**

(Repeatable for a maximum of 6 credit hours) Certification preparation course to help students prepare for professional certification attempts in information technology. Certification is not guaranteed and certification fees may apply.

**Prerequisite:** Special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**IT 36318 SURVEY OF INFORMATION SECURITY, INTERNET FRAUD AND COMPUTER FORENSICS (WIC) 3 Credit Hours**

Course provides a non-technical introduction to contemporary issues in information security, Internet fraud and computer forensics.

**Prerequisite:** ENG 21011 or HONR 10297; and junior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Writing Intensive Course

**IT 36320 COMPUTER FORENSICS 3 Credit Hours**

Hands-on skills in incident response, forensic preparation and data recovery and analysis.

**Prerequisite:** CS 33211 or EMAT 26010 or IT 21002; or ENGR 23010 and ENGR 26301.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**IT 36321 NETWORK FORENSICS 3 Credit Hours**

Emphasizing hands-on skills in live incident response, the proper use of network forensic tools, network monitoring, live data capture, evidence analysis, data integrity and other related topics.

**Prerequisite:** CS 33211 or EMAT 26010 or IT 21002; or ENGR 23010 and ENGR 26301.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**IT 36322 SOCIAL MEDIA AND MOBILE DEVICE FORENSICS 3 Credit Hours**

Course covers data collection and analysis techniques for social media and mobile devices.

**Prerequisite:** Junior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**IT 36330 LOCAL AREA NETWORK SECURITY FUNDAMENTALS 3 Credit Hours**

Examines the primary issues involved in securing resources in a local area network (LAN), including threat assessment, countermeasures, best practices, security protocols, cryptography and management-related issues.

**Prerequisite:** CS 33211 or EMAT 26010 or IT 21002; or ENGR 23010 and ENGR 26301.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**IT 36331 ADVANCED ROUTING AND SWITCHING 3 Credit Hours**

Reinforcing Internetworking concepts. Topics include network standards, LAN switching, VLANs, network designs, routing protocols and configuration, LAN and WAN segments, and other related topics.

**Prerequisite:** IT 21110.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**IT 36336 WEB SCRIPTING II 3 Credit Hours**

Focuses on server-side scripting needed to create interactive and dynamic websites.

**Prerequisite:** IT 21036.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**IT 36340 HELP DESK SUPPORT 3 Credit Hours**

Examination of help desks that exist, importance within organizations, the roles and skills required, and methods and technologies commonly employed.

**Prerequisite:** IT 11009 or ENGR 23010.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**IT 36350 PROGRAMMING OFFICE PRODUCTIVITY APPLICATIONS 3 Credit Hours**

Introduces the use of Visual Basic for Applications (VBA) as a tool to create customized programs that automate repetitive and/or complex tasks performed using office suite applications.

**Prerequisite:** IT 11002 and IT 21010.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**IT 36355 COMMAND LINE UTILITIES 3 Credit Hours**

Course prepares students to perform effectively in Windows, Linux and various server command line environments. Topics include command syntax, batch files, script files and internal and external commands.

**Prerequisite:** CS 33211 or EMAT 15310 or EMAT 26010 or IT 21002; or ENGR 23010 and ENGR 26301.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**IT 36392 INTERNSHIP FOR INFORMATION TECHNOLOGY STUDENTS (ELR) 1-3 Credit Hours**

(Repeatable for a maximum of 6 credit hours) An arranged work experience for students in the information technology field. Students complete 45 hours of internship per credit.

**Prerequisite:** Junior standing.

**Schedule Type:** Practical Experience

**Contact Hours:** 3-9 other

**Grade Mode:** Standard Letter

**Attributes:** Experiential Learning Requirement

**IT 40000 CYBERSECURITY 3 Credit Hours**

Builds on a background in networking and focuses on cybersecurity best practices, standard models and regulatory requirements.

**Prerequisite:** CS 33211 or EMAT 26010 or IT 21002; or ENGR 23010 and ENGR 26301.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**IT 41002 CLOUD TECHNOLOGY 3 Credit Hours**

Concepts of cloud computing, including storage; services; technology; and management.

**Prerequisite:** CS 33211 or EMAT 26010 or IT 21002; or ENGR 23010 and ENGR 26301.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**IT 41010 MOBILE APPLICATIONS FOR INFORMATION TECHNOLOGY 3 Credit Hours**

Course covers enterprise mobility technical concepts, strategies, and solutions across various domains and industries. Includes topics such as organizational issues, IT and business operations; and best practices and security.

**Prerequisite:** Junior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**IT 42000 SOCIAL MEDIA SECURITY 3 Credit Hours**

Personal and corporate social media presence, security risks, intellectual property and ethical issues.

**Prerequisite:** Junior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**IT 42002 WIRELESS AND MOBILE DEVICE SECURITY 3 Credit Hours**

Course covers wireless and mobile device security. Topics include risk assessments, threats, vulnerabilities and current security practices.

**Prerequisite:** CS 33211 or EMAT 26010 or IT 21002; or ENGR 23010 and ENGR 26301.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**IT 43000 HEALTHCARE INFORMATION SYSTEMS 3 Credit Hours**

Course focuses on the roles and responsibilities of the health information technology professional including the technology, legal and ethical responsibilities and complex systems and environment.

**Prerequisite:** Junior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**IT 46300 ADVANCED COMPUTER ASSEMBLY AND CONFIGURATION 3 Credit Hours**

Focus is on advanced system components, streamlined operating system installation procedures, and current technology in local area network (LAN) connectivity.

**Prerequisite:** IT 11009; and junior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**IT 46303 DIGITAL VIDEO EDITING 3 Credit Hours**

Utilizes digital imaging technologies to produce videos. Includes timelines; filming, importing/exporting video; audio; effects, transitions and captions.

**Prerequisite:** IT 36303.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**IT 46308 ADVANCED VISUAL BASIC PROGRAMMING 3 Credit Hours**

Advanced concepts of visual basic, including classes and objects, inheritance, polymorphism, arrays, exception handling, files and streams and dynamic-link library (DLL).

**Prerequisite:** CS 13001 or EMAT 15310 or IT 11002 or CIS 24065.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**IT 46309 ASP.NET WEB PROGRAMMING 3 Credit Hours**

Using Visual Studio and the ASP.NET platform to develop secure, data-aware web applications. Topics covered include HTML and CSS, testing and debugging, master pages, state management, security and authentication, SQL and object data sources.

**Prerequisite:** IT 11002 or IT 20021 or CS 13001 or EMAT 15310 or CIS 24065.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter



**IT 46310 TECHNOLOGY OF OPERATING SYSTEMS 3 Credit Hours**

Course covers installation, configuration, tuning and communication among state-of-the-art desktop operating systems, using available system tools, utilities and files.

**Prerequisite:** CS 33211 or EMAT 26010 or IT 21002; or ENGR 23010 and ENGR 26301.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**IT 46311 TECHNOLOGY OF NETWORKING 3 Credit Hours**

Advanced topics of enterprise network management, including DNS, IP addressing, routing basics, subnet masking, firewalls, storage redundancy techniques, and general tuning, optimizing, troubleshooting, recovery strategies.

**Prerequisite:** CS 33211 or EMAT 26010 or IT 21002; or ENGR 23010 and ENGR 26301.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**IT 46312 SCRIPTING FOR NETWORK ADMINISTRATORS 3 Credit Hours**

Covers scripting technologies to configure and manage resources and services of local area network (LAN) servers and workstations.

**Prerequisite:** IT 21002 and IT 21036.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**IT 46313 VIRTUAL MACHINE CONFIGURATION AND ADMINISTRATION 3 Credit Hours**

Focus on configuring and administering virtual machine software.

**Prerequisite:** CS 33211 or EMAT 26010 or IT 21002; or ENGR 23010 and ENGR 26301.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**IT 46314 ADVANCED SERVER CONFIGURATION 3 Credit Hours**

Course focus is on the core service roles provided by application services, including configuration, maintenance and security.

**Prerequisite:** CS 33211 or EMAT 26010 or IT 21002; or ENGR 23010 and ENGR 26301.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**IT 46315 SQL WITH ORACLE 3 Credit Hours**

Focus is on Structured Query Language. (SQL) and relational databases using Oracle, a comprehensive and fully integrated stack of cloud applications and platform services.

**Prerequisite:** CS 13001 or EMAT 15310 or IT 21005 or CIS 24065.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**IT 46320 CLOUD FORENSICS 3 Credit Hours**

Concepts of cloud forensics, including legal consideration and software tools involved with discovery in the cloud.

**Prerequisite:** CS 33211 or EMAT 26010 or IT 21002; or ENGR 23010 and ENGR 26301.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**IT 46321 WEB DATABASE INTEGRATION 3 Credit Hours**

Course focus is on integrating data sources into websites. Current topics include advanced concepts in server-side processing principles, web forms, database programming objects and Structured Query Language (SQL).

**Prerequisite:** IT 21036.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**IT 46331 LOCAL AREA NETWORK SECURITY AND FIREWALLS 3 Credit Hours**

Course examines the primary issues involved in defining and configuring a local area network (LAN) defense perimeter, including LAN security analysis, implementing firewalls and intrusion detection systems.

**Prerequisite:** IT 36330.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**IT 46340 DATA DESIGN AND IMPLEMENTATION 3 Credit Hours**

Explores the role and design of databases in organizations, with emphasis on the technologies used in their implementation. Emphasis on Structured Query Language (SQL).

**Prerequisite:** IT 21005 and IT 21010.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**IT 46350 DATABASE ADMINISTRATION AND REPORTING TOOLS 3 Credit Hours**

Examines the role of database administrator, focusing on maintaining, validating and securing data along with use of report writing tools, techniques and best practices.

**Prerequisite:** IT 21005 and IT 21010.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

## Insurance Studies (INS)

**INS 29000 INTRODUCTION TO INSURANCE AND RISK 3 Credit Hours**

Introduction into the fields of insurance and risk management including, property and casualty, life, health, auto and other types of insurances.

Personal and commercial risks are identified and quantified for potential loss.

**Prerequisite:** ACTT 11000 or BMRT 11000.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**INS 39000 INSURANCE LAW, FINANCE AND RISK MANAGEMENT 3 Credit Hours**

Next-level insurance and risk management topics including ERM, insurance law and financial statement analysis. Other topics include impact of laws and regulation on insurers and additional elements of life insurance, annuities, IRAs, auto insurance, crime insurance and surety bonds.

**Prerequisite:** INS 29000.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**INS 39001 INSURANCE OPERATIONS (WIC) 3 Credit Hours**

A detailed review of the strategic and tactical operations of the insurance industry. Explores the Function and role of insurers, claims management, rate making, financial structures and underwriting.

**Prerequisite:** INS 39000 with a minimum grade of C grade.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Writing Intensive Course

**INS 49000 LIFE AND HEALTH INSURANCE 3 Credit Hours**

A detailed review of life and health insurance and their impact on individuals and society. The objective is a familiarization with various life and health products and how these products protect people and their families against financial losses caused by death, accident, sickness or disability.

**Prerequisite:** INS 39001 with a minimum C grade.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**INS 49001 PERSONAL LINES INSURANCE 3 Credit Hours**

Study of property and casualty personal lines of insurance including automobile, homeowner, dwelling and other residential policies, 'toys' such as motor homes, motorcycles and boats, and high-risk plans for earthquake, flood and windstorm.

**Prerequisite:** INS 39001 with a minimum C grade.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**INS 49002 COMMERCIAL INSURANCE 3 Credit Hours**

Advanced concepts in commercial lines insurance including commercial property, commercial liability, business income, commercial crime and equipment breakdown insurance, commercial auto, workers compensation, business owners and specialty coverages.

**Prerequisite:** INS 39001 with a C grade.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**INS 49092 INSURANCE PRACTICUM GENERAL (ELR) 3 Credit Hours**

(Repeatable for credit) Course requires an on-sight internship and/or a project with an insurance related organization approved by the Instructor.

**Prerequisite:** INS 39000 and 39001; and special approval.

**Schedule Type:** Practical Experience

**Contact Hours:** 21 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**Attributes:** Experiential Learning Requirement

## Mechanical Engineering and Related Technology (MERT)

**MERT 12000 ENGINEERING DRAWING 3 Credit Hours**

Engineering drawing principles and techniques: orthographic projection, sketching, sections, auxiliary views, dimensioning and conventional practices.

**Prerequisite:** None.

**Schedule Type:** Laboratory, Lecture, Combined Lecture and Lab

**Contact Hours:** 2 lecture, 2 lab

**Grade Mode:** Standard Letter

**MERT 12001 COMPUTER-AIDED DESIGN 3 Credit Hours**

Introduces 3D modeling techniques to design and draft mechanical components and assemblies.

**Prerequisite:** Minimum C grade in MERT 12000.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 2 lecture, 2 lab

**Grade Mode:** Standard Letter

**Attributes:** CTAG Mechanical Engineering Technology, TAG Engineering Technology

**MERT 12004 MANUFACTURING PROCESSES 3 Credit Hours**

Introduces students to the various manufacturing processes such as extrusion, molding, forging, casting, stamping, piercing, joining and finishing. Investigates the various ways parts are made from the vast array of materials available.

**Prerequisite:** None.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 2 lecture, 2 lab

**Grade Mode:** Standard Letter

**Attributes:** CTAG Mechanical Engineering Technology, TAG Engineering Technology

**MERT 12005 PROPERTIES OF MATERIALS 3 Credit Hours**

Covers the chemical and physical properties of engineering materials such as metals (ferrous and non-ferrous), polymers, ceramics and composites. Students learn the mechanical and physical properties of materials, and the effects that manufacturing processes have on the material's properties.

**Prerequisite:** None.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 2 lecture, 2 lab

**Grade Mode:** Standard Letter

**Attributes:** TAG Engineering Technology

**MERT 21096 INDIVIDUAL INVESTIGATION IN MECHANICAL ENGINEERING TECHNOLOGY 1-4 Credit Hours**

(Repeatable for credit) Independent in depth research of a mechanical engineering technology topic supervised and coordinated by an engineering technology faculty member.

**Prerequisite:** Permission.

**Schedule Type:** Individual Investigation

**Contact Hours:** 1-4 other

**Grade Mode:** Standard Letter

**MERT 22003 COMPUTER-AIDED TOOL DESIGN 3 Credit Hours**

Tool design practices and procedures including materials, commercial standards, cutting tools, drill jigs, fixtures, dies and gauges using computer-aided design.

**Prerequisite:** MERT 12001.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MERT 22005 STATICS 3 Credit Hours**

Basic vector mechanics, calculation of reactions from applied forces, drawing free body diagrams, working with equations of equilibrium, analysis of simple structures, calculating mass properties and forces due to friction.

**Prerequisite:** None.

**Corequisite:** MATH 11022.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** TAG Engineering Technology

**MERT 22007 STRENGTH OF MATERIALS 3 Credit Hours**

Covers taking the stresses induced into members due to applied loading, and coupled with mass properties of the sections, designing members to safely carry the loads. Types of stresses considered are tensile, compressive, shear, bending, torsional and combined.

**Prerequisite:** MERT 22005.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** TAG Engineering Technology

**MERT 22012 FLUID POWER 3 Credit Hours**

Fluid properties, kinematics of fluid flow, momentum, viscosity, conservation of energy in fluid flow, industrial hydraulics and gas laws.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** TAG Engineering Technology

**MERT 22095 SPECIAL TOPICS IN MECHANICAL ENGINEERING TECHNOLOGY 1-3 Credit Hours**

(Repeatable for credit) Special topics in mechanical engineering technology.

**Prerequisite:** Permission.

**Schedule Type:** Lecture

**Contact Hours:** 1-3 lecture

**Grade Mode:** Standard Letter

**MERT 32004 MACHINE DESIGN 3 Credit Hours**

This course provides the concepts, procedures, data, and decision analysis techniques necessary to design machine elements commonly found in mechanical devices and systems.

**Prerequisite:** MERT 12001 and MERT 22007.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MERT 34002 ADVANCED SOLID MODELING 3 Credit Hours**

Advance parametric solid modeling using advanced software (CREO) to create and analyze solid models. Includes model creation using advance features, introduction to FEA simulation, and manufacturing simulations.

**Prerequisite:** MERT 12001.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MERT 42000 THERMODYNAMICS FOR ENGINEERING TECHNOLOGY 3 Credit Hours**

Includes the study of the first and second laws of thermodynamics with a detailed study of various types of heat engines. Additional topics include principles of heat transfer and energy management.

**Prerequisite:** PHY 13001 and PHY 13002 or PHY 13011 and PHY 13012.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MERT 43001 DYNAMICS FOR ENGINEERING TECHNOLOGY 3 Credit Hours**

Kinematics and kinetics of particles; Newton's laws; energy and momentum methods; system of particles; kinematics and kinetics of planar motions of rigid bodies; plane motion of rigid bodies; mechanical vibrations.

**Prerequisite:** PHY 13002 or PHY 13012.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

## Nursing Technology (NRST)

**NRST 10001 FOUNDATIONS OF NURSING AGENCY 5 Credit Hours**

Development of basic nursing skills and physical assessment. Students begin implementation of the nursing process using universal self-care requisites as an organizational framework.

**Prerequisite:** Admission to technical study; and nursing ADN major.

**Schedule Type:** Clinical Laboratory, Combined Lecture and Lab

**Contact Hours:** 2 lecture, 4.67 lab, 4.33 other

**Grade Mode:** Standard Letter

**Attributes:** CTAG Nursing/Associate Degree

**NRST 10003 NURSING AGENCY I 6 Credit Hours**

Emphasizes broad concepts common to nursing practice. Increasingly complex skills are introduced. Care focuses on simple therapeutic self-care demands.

**Prerequisite:** Minimum C grade in the following: BSCI 11010 and CHEM 10055 (or CHEM 10050) and NRST 10001 and UC 10097 and one from the Kent Core Mathematics and Critical Reasoning category; and nursing ADN major; and minimum 2.000 overall GPA.

**Schedule Type:** Clinical Laboratory, Combined Lecture and Lab

**Contact Hours:** 3.5 lecture, 3 lab, 4.5 other

**Grade Mode:** Standard Letter

**Attributes:** CTAG Nursing/Associate Degree

**NRST 10006 LPN TO ASSOCIATE DEGREE IN NURSING TRANSITION 3 Credit Hours**

Course is designed for the advanced placement of licensed practical nurses (LPN) to the nursing program. Course includes content areas from all first-year nursing courses, with both theory and lab. Orem's theory is introduced, emphasizing the assessment of the client's self-care assets and self-care deficits.

**Prerequisite:** Nursing ADN major; and minimum 2.700 overall GPA; and admission to technical study; and minimum C grade in the following: BSCI 11010 and CHEM 10055 (CHEM 10050) and UC 10097 and one from Kent Core Mathematics and Critical Reasoning category.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 2 lecture, 3 lab

**Grade Mode:** Standard Letter

**NRST 10008 PARAMEDIC TO ASSOCIATE DEGREE IN NURSING TRANSITION 5 Credit Hours**

Course serves to validate prior learning, update and enhance the student's knowledge, begin the process of role transition and prepare students for advanced placement into the Nursing program.

**Prerequisite:** Minimum 2.700 cumulative GPA; and Nursing ADN major; and admission to technical study; and minimum C grade in the following: BSCI 11010 and CHEM 10055 (CHEM 10050) and UC 10097 and one from Kent Core Mathematics and Critical Reasoning category.

**Schedule Type:** Clinical Laboratory, Lecture

**Contact Hours:** 3.5 lecture, 1.83 lab, 2.67 other

**Grade Mode:** Standard Letter

**NRST 10009 BASIC PRINCIPLES OF PHARMACOLOGY 2 Credit Hours**

Students identify and apply the basic principles of pharmacology to client care. In addition, they explore pharmaceuticals, pharmacokinetics, pharmacodynamics, pharmacology-related math, drug classification, and safe preparation and administration of medications.

**Prerequisite:** Major in one of the following: Nursing ADN, Nursing BSN, Radiologic Technology, Respiratory Therapy Technology, Physical Therapist Assistant Technology or Occupational Therapy Assistant Technology.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**NRST 10010 THERAPEUTIC USE OF SELF 1 Credit Hour**

Course focus is on the self-care of individuals, with emphasis on understanding human relationships in the promotion of self-care. Culture, values and past experiences as factors in communication are explored.

**Prerequisite:** NRST 10001 with a minimum C grade; and minimum 2.000 overall GPA; and nursing ADN major.

**Schedule Type:** Lecture

**Contact Hours:** 1 lecture

**Grade Mode:** Standard Letter

**NRST 20205 PSYCHOSOCIAL SELF CARE DEFICITS 3 Credit Hours**

Course focus is on providing mental health nursing care utilizing the nursing process for the emotionally ill client, family and community with psychiatric mental health needs. Emphasis is placed on understanding holistic human needs and promotion of the professional therapeutic nurse-client relationship.

**Prerequisite:** Minimum C grade in BSCI 11020, NRST 10003, NRST 10010, NUTR 23511 (or NUTR 33512) and PSYC 11762; and nursing ADN major; and minimum 2.000 overall GPA.

**Schedule Type:** Clinical Laboratory, Laboratory, Lecture

**Contact Hours:** 2 lecture, .333 lab, 2.667 other

**Grade Mode:** Standard Letter

**NRST 20206 NURSING AGENCY II 5 Credit Hours**

Course focuses on nursing care of adults with intermediate therapeutic self-care demands. Emphasis is placed on the nurse as a provider of care.

**Prerequisite:** Minimum C grade in BSCI 11020, BSCI 20021, NRST 10003, NRST 10010, NUTR 23511 (or NUTR 33512) and PSYC 11762; and nursing ADN major; and minimum 2.000 overall GPA.

**Schedule Type:** Clinical Laboratory, Laboratory, Lecture

**Contact Hours:** 2.5 lecture, 1.5 lab, 6 other

**Grade Mode:** Standard Letter

**NRST 20207 PSYCHOSOCIAL SELF-CARE DEFICITS 4 Credit Hours**

Course focus is on providing mental health nursing care utilizing the nursing process for the emotionally ill client, family and community with psychiatric mental health needs. Emphasis is placed on understanding holistic human needs and promotion of the professional therapeutic nurse-client relationships.

**Prerequisite:** Minimum C grade in NRST 10003, NUTR 33512 and PSYC 11762; and nursing ADN major; and minimum 2.000 overall GPA.

**Schedule Type:** Clinical Laboratory, Lecture

**Contact Hours:** 3 lecture, .333 lab, 2.667 other

**Grade Mode:** Standard Letter

**NRST 20208 NURSING AGENCY III 6 Credit Hours**

Course covers nursing care of individuals with complex therapeutic self-care demands. Emphasis is placed on the nurse as provider and manager of patient care.

**Prerequisite:** Minimum C grade in NRST 20205, NRST 20206 and NURS 20950; and nursing ADN major; and minimum 2.000 overall GPA.

**Schedule Type:** Clinical Laboratory, Combined Lecture and Lab

**Contact Hours:** 3 lecture, .5 lab, 8.5 other

**Grade Mode:** Standard Letter

**NRST 20209 MATERNAL/NEWBORN DEVELOPMENT SELF-CARE 2 Credit Hours**

Course covers nursing care of the expectant and newly-delivered family. The nursing approach acknowledges the mother's self-care abilities and dependent care agent role. Health deviations related to childbearing are incorporated.

**Prerequisite:** BSCI 11020, BSCI 20021, NRST 10003, NRST 10010, NURS 20950, NUTR 23511 (or NUTR 33512) and PSYC 11762; and nursing ADN major; and minimum 2.000 overall GPA.

**Schedule Type:** Clinical Laboratory, Laboratory, Lecture

**Contact Hours:** 1 lecture, 3 other

**Grade Mode:** Standard Letter

**NRST 20210 CHILD AND FAMILY DEVELOPMENT SELF-CARE 2 Credit Hours**

Course covers family-centered nursing care of children. Developmental self-care requisites and common health deviations are emphasized.

**Prerequisite:** Minimum C grade in NRST 20205, NRST 20206 and NURS 20950; and minimum 2.000 overall GPA.

**Schedule Type:** Clinical Laboratory, Combined Lecture and Lab

**Contact Hours:** 1 lecture, .4 lab, 2.6 other

**Grade Mode:** Standard Letter

**NRST 21095 SPECIAL TOPICS 2-4 Credit Hours**

(Repeatable for credit) Scheduled topic of interest to students and faculty.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 2-4 lecture

**Grade Mode:** Standard Letter

**NRST 21096 INDIVIDUAL INVESTIGATION IN NURSING 1-3 Credit Hours**

(Repeatable for a total of 18 hours) Readings and/or investigation of nursing topics supervised by nursing faculty.

**Prerequisite:** Special approval.

**Schedule Type:** Individual Investigation

**Contact Hours:** 3 other

**Grade Mode:** Satisfactory/Unsatisfactory

## Occupational Therapist Assistant Technology (OCAT)

**OCAT 10000 FOUNDATIONS IN OCCUPATIONAL THERAPY 2 Credit Hours**

Introduction to basic theoretical concepts, professional development, profession of occupational therapy, its place in the health care system, and the role and function of the Occupational Therapist and Occupational Therapist Assistant.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter



**OCAT 10001 OCCUPATIONAL THERAPY PRACTICE SKILLS II 3 Credit Hours**

Development of the OT practice skills in therapeutic use of occupation, including crafts, activity analysis, and basic documentation.

**Prerequisite:** OCAT 10003 with a minimum C grade.

**Schedule Type:** Laboratory, Lecture

**Contact Hours:** 2 lecture, 3 lab

**Grade Mode:** Standard Letter

**OCAT 10002 OCCUPATIONAL PERFORMANCE IN PSYCHOSOCIAL HEALTH 4 Credit Hours**

Application of occupational therapy assessment, skills and techniques in treatment programs concerned with psychosocial health.

**Prerequisite:** OCAT 10003 with a minimum C grade.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 3 lecture, 3 lab

**Grade Mode:** Standard Letter

**OCAT 10003 OCCUPATIONAL THERAPY PRACTICE SKILLS LABORATORY 1 Credit Hour**

Development of basic assessment and intervention skills as related to clients with physical and mental disabilities.

**Prerequisite:** Admission to technical study; and occupational therapist assistant technology majors.

**Schedule Type:** Laboratory

**Contact Hours:** 3 lab

**Grade Mode:** Standard Letter

**OCAT 10004 OCCUPATIONAL THERAPY ASSISTANT TERMINOLOGY 1 Credit Hour**

An introduction to key terms utilized in occupational therapy and rehabilitation settings. Emphasis is on increasing professional understanding of occupational therapy terminology including related medical terminology found in professional documentation. Student is introduced to Occupational Therapy Practice Framework terminology.

**Prerequisite:** Occupational therapy assistant technology major.

**Schedule Type:** Lecture

**Contact Hours:** 1 lecture

**Grade Mode:** Standard Letter

**OCAT 10010 PROFESSIONALISM IN HEALTHCARE 1 Credit Hour**

Provides information concerning professional behaviors, character traits, work ethics and communication skills that OTAs will need as they interact with other healthcare professionals. Students need to understand the importance of being professional, competent, ethical and legal.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 1 lecture

**Grade Mode:** Standard Letter

**OCAT 10092 THERAPEUTIC TECHNIQUES - FIELDWORK 1A (ELR) 1 Credit Hour**

Under the supervision of personnel in selected facilities or agencies, the student will apply knowledge, skills and techniques acquired in the concurrent OCAT therapeutic technique courses.

**Prerequisite:** OCAT 10003 with a minimum C grade.

**Schedule Type:** Practical Experience

**Contact Hours:** 5.6 other

**Grade Mode:** Satisfactory/Unsatisfactory

**Attributes:** Experiential Learning Requirement

**OCAT 20000 OCCUPATIONAL PERFORMANCE IN PHYSICAL HEALTH 4 Credit Hours**

Application of occupational therapy assessment, skills and techniques in treatment program specifically concerned with physical health.

**Prerequisite:** OCAT 10001 and OCAT 10002 with a minimum C grade.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 3 lecture, 3 lab

**Grade Mode:** Standard Letter

**OCAT 20001 OCCUPATIONAL THERAPY MANAGEMENT AND LEADERSHIP SKILLS 2 Credit Hours**

Introduction to management and leadership issues in occupational therapy practice, including ethics, licensure, reimbursement related to practice settings, research and skills required for performance of administrative tasks in an occupational therapy department.

**Prerequisite:** OCAT 10002.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**OCAT 20003 OCCUPATIONAL THERAPY PRACTICE SKILLS III 3 Credit Hours**

Development of the occupational therapy practice skills including therapeutic use of occupation, leisure, adapting equipment and environment, therapeutic exercises, activity analysis and documentation.

**Prerequisite:** OCAT 10001 and OCAT 10002.

**Schedule Type:** Laboratory, Lecture

**Contact Hours:** 2 lecture, 3 lab

**Grade Mode:** Standard Letter

**OCAT 20004 OCCUPATIONAL PERFORMANCE IN PEDIATRIC POPULATIONS 3 Credit Hours**

Application of occupational therapy assessment, skills and techniques applied to pediatric populations and conditions.

**Prerequisite:** OCAT 20000.

**Schedule Type:** Laboratory, Lecture

**Contact Hours:** 2 lecture, 3 lab

**Grade Mode:** Standard Letter

**OCAT 20006 OCCUPATIONAL PERFORMANCE IN PHYSICAL HEALTH II 3 Credit Hours**

Continued application of occupational therapy assessment, skills and techniques in treatment programs related to physical health.

**Prerequisite:** OCAT 10002 and OCAT 20000 with a minimum C grade.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 2 lecture, 3 lab

**Grade Mode:** Standard Letter

**OCAT 20092 THERAPEUTIC TECHNIQUES - FIELDWORK 1B (ELR) 1 Credit Hour**

Under the supervision of personnel in selected healthcare facilities or agencies, the student will apply knowledge, skills, and techniques acquired in the concurrent OCAT therapeutic techniques course.

**Prerequisite:** OCAT 10000 and OCAT 10002.

**Corequisite:** OCAT 20000.

**Schedule Type:** Practical Experience

**Contact Hours:** 5.6 other

**Grade Mode:** Satisfactory/Unsatisfactory

**Attributes:** Experiential Learning Requirement



**OCAT 20192 CLINICAL APPLICATIONS I (ELR) 4 Credit Hours**

Under the supervision of personnel in selected healthcare agencies, the student will apply knowledge, skills and techniques acquired in prior OCAT courses.

**Prerequisite:** Minimum C grade in OCAT 10000 and OCAT 10001 and OCAT 10002 and OCAT 20000 and OCAT 20001 and OCAT 20003 and OCAT 20006.

**Schedule Type:** Field Experience

**Contact Hours:** 20 other

**Grade Mode:** Satisfactory/Unsatisfactory

**Attributes:** Experiential Learning Requirement

**OCAT 20292 CLINICAL APPLICATIONS II (ELR) 4 Credit Hours**

Under the supervision of personnel in selected healthcare agencies, the student will apply knowledge, skills and techniques acquired in prior OCAT courses.

**Prerequisite:** OCAT 10000, OCAT 10001, OCAT 10002, OCAT 20000, OCAT 20001, OCAT 20003 and OCAT 20006.

**Schedule Type:** Practical Experience

**Contact Hours:** 20 other

**Grade Mode:** Satisfactory/Unsatisfactory

**Attributes:** Experiential Learning Requirement

**OCAT 21000 OCCUPATIONAL THERAPY LICENSURE PREPARATION 1 Credit Hour**

Students in the course are informed on how to prepare for their national certification exam and apply for licensure in preparation for practice as occupational therapy assistants. Content includes a brief review of occupational therapy concepts and theories, test taking, study strategies and practice of simulated exam questions.

**Prerequisite:** OCAT 20006.

**Schedule Type:** Seminar

**Contact Hours:** 1 lecture

**Grade Mode:** Standard Letter

**OCAT 21095 SPECIAL TOPICS IN OCCUPATIONAL THERAPIST ASSISTANT TECHNOLOGY 1-4 Credit Hours**

(Repeatable maximum 6 times for credit) Special topics in Occupational Therapy Assistant Technology; topics announced when scheduled.

**Prerequisite:** OCAT 10003.

**Schedule Type:** Lecture

**Contact Hours:** 1-4 lecture

**Grade Mode:** Standard Letter

**OCAT 21096 INDIVIDUAL INVESTIGATION IN OCCUPATIONAL THERAPIST ASSISTANT TECHNOLOGY 1-4 Credit Hours**

(Repeatable for credit) Individual study in Occupational Therapy Assistant Technology and related fields; open to OCAT majors.

**Prerequisite:** OCAT 10003.

**Schedule Type:** Individual Investigation

**Contact Hours:** 1-4 other

**Grade Mode:** Standard Letter-IP

## Office Technology (OTEC)

**OTEC 16620 WORD PROCESSING I 3 Credit Hours**

Builds expertise in creating business documents applying the basic features of popular word processing software. Emphasis on hands on experience.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**OTEC 16621 WORD PROCESSING II 3 Credit Hours**

Design and create documents by using advanced features of word processing software.

**Prerequisite:** OTEC 16620.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**OTEC 16625 BUSINESS PRESENTATIONS 3 Credit Hours**

Development and production of professional computer-projected presentation materials using popular software. Includes use of graphic design techniques, color layout design principles and transparencies.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**OTEC 16638 GOOGLE APPLICATIONS FOR ADMINISTRATIVE PROFESSIONALS 3 Credit Hours**

Introduction to Google Applications. Students will learn to create, modify and manage the various Google Applications; utilize Google Drive; and learn to apply Google Application skills in the work environment and for personal use.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**OTEC 16639 DATABASE APPLICATIONS 3 Credit Hours**

Concepts, terminology and use of current database software to manage and retrieve business information. Emphasis on hands-on experiences.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**OTEC 16640 ADVANCED DATABASE APPLICATIONS 3 Credit Hours**

Provides the student with the skills and knowledge on creating advanced queries, forms and reports. Students learn how to customize, automate and secure the database structure.

**Prerequisite:** OTEC 16639; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**OTEC 16680 COMPUTER KEYBOARDING 1 Credit Hour**

Basic keyboarding course using computers for students having no previous keyboarding instruction or a speed of less than 30 words a minute. To pass the course students must keyboard above 30 words a minute for three minutes with no more than three errors.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 1 lecture

**Grade Mode:** Standard Letter

**OTEC 26611 SPREADSHEET APPLICATIONS 3 Credit Hours**

Use of electronic spreadsheets from beginning to advanced applications that may prepare for software certification.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**OTEC 26622 DESKTOP PUBLISHING I 3 Credit Hours**

Study and application of the principles of proper document design using high-end desktop publishing software for newsletters, brochures, reports, forms and other computer-based business documents.

**Prerequisite:** OTEC 16620.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**OTEC 26623 DESKTOP PUBLISHING II 3 Credit Hours**

High-end layout design and illustration software. Includes advanced documents, Web publishing, makeovers, computer graphic concepts and formatting, image editing techniques and the use of color.

**Prerequisite:** OTEC 26622.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**OTEC 26635 ADMINISTRATIVE RESOURCE MANAGEMENT 3 Credit Hours**

Explores how office professionals can apply resource management skills to the areas of space/workflow, forms, budgetary control, staff and materials supplies.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**OTEC 26636 PROJECT MANAGEMENT FOR ADMINISTRATIVE PROFESSIONALS 1 Credit Hour**

Provides the basic tools needed to effectively manage projects and to automate and streamline such functions as resource allocation, work scheduling and communication. Project management software is used in the course.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 1 lecture

**Grade Mode:** Standard Letter

**OTEC 26638 BUSINESS COMMUNICATIONS 3 Credit Hours**

Theory and application of oral and written business communication with emphasis on business letters, reports, employment process, visual presentations and electronic communications. Basic word processing skills are suggested.

**Prerequisite:** ENG 11011 or HONR 10197.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**OTEC 26640 CURRENT TECHNOLOGIES 3 Credit Hours**

Current trends and technology for the marketplace from an end user perspective.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**OTEC 26650 MEDICAL BILLING PROCEDURES 3 Credit Hours**

Introductory course in the preparation of various medical documents and forms in the health care industry. Use of computers and various word processing software is included. This course requires a 30 clock hour internship.

**Prerequisite:** OTEC 26655 and OTEC 26656.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**OTEC 26655 ICD CODING 3 Credit Hours**

Basic medical coding using the current version of the ICD classification system and nomenclature.

**Prerequisite:** HED 14020.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**OTEC 26656 CPT CODING 3 Credit Hours**

Introduction to coding rules for the CPT and Level II coding systems, incorporating and applying ICD rules to code patient services.

**Prerequisite:** OTEC 26655.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**OTEC 26691 SEMINAR FOR ADMINISTRATIVE PROFESSIONALS 3 Credit Hours**

Refines job search strategies, integrates coursework with realistic office settings, presents interpersonal and ethical issues, provides outreach activities, and emphasizes career management.

**Prerequisite:** Sophomore standing.

**Schedule Type:** Seminar

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**OTEC 26692 INTERNSHIP FOR ADMINISTRATIVE PROFESSIONALS (ELR) 1-3 Credit Hours**

(Repeatable for a maximum of 4 credit hours) Supervised field experience of ten hours per week paid or seven hours per week unpaid in a business environment functioning as an administrative professional.

**Prerequisite:** Sophomore standing; and special approval.

**Schedule Type:** Practical Experience

**Contact Hours:** 7-21 other

**Grade Mode:** Standard Letter

**Attributes:** Experiential Learning Requirement

**OTEC 26695 SPECIAL TOPICS IN INFORMATION TECHNOLOGY FOR ADMINISTRATIVE PROFESSIONALS 1-3 Credit Hours**

(Repeatable for credit) Special topics in information technology topics for administrative professionals.

**Prerequisite:** Special approval.

**Schedule Type:** Lecture

**Contact Hours:** 1-3 lecture

**Grade Mode:** Standard Letter

**OTEC 26696 INDIVIDUAL INVESTIGATION: INFORMATION TECHNOLOGY FOR ADMINISTRATIVE PROFESSIONALS 1-3 Credit Hours**

(Repeatable for credit) Independent, in-depth research of an office technology topic supervised and coordinated by a program faculty member.

**Prerequisite:** 12 credit hours of OTEC courses; and special approval from a full-time office technology faculty member.

**Schedule Type:** Individual Investigation

**Contact Hours:** 1-3 other

**Grade Mode:** Standard Letter

## Peace Officer Training Academy (POTA)

**POTA 11001 PEACE OFFICERS ACADEMY I 6 Credit Hours**

This course studies the role of the peace officer, principles of the American criminal justice system, ethics and professionalism. This course also studies the Ohio criminal code, constitutional law, the tenets of civil liability to law enforcement. It also covers case investigation, forensic procedures, interviews, execution of search warrants and physical conditioning. The student will comply with all the student performance objectives and requisite proficiencies as mandated by the Ohio Peace Officer Training Commission curriculum.

**Prerequisite:** Admission into the peace officers academy training certificate program.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 18.5 lecture, 3.6 lab

**Grade Mode:** Standard Letter

**POTA 11002 PEACE OFFICERS ACADEMY II 5 Credit Hours**

This course is designed to address the skills necessary for a first responder to administer aid and assistance in an emergency situation. Crowd control, HazMat, weapons of mass destruction, incident command systems and terrorism awareness is taught. Safe handling techniques and usage of firearms and they safety are covered. Students must demonstrate a measured skill level firing handguns and comply with all student performance objectives and requisite proficiencies as mandated by the Ohio Peace Officer Training Commission curriculum.

**Prerequisite:** Admission into the peace officers academy training certificate program.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 10.3 lecture, 8.4 lab

**Grade Mode:** Standard Letter

**POTA 11003 PEACE OFFICERS ACADEMY III 6 Credit Hours**

This course studies the means of dealing with interpersonal communications and intervention with groups and individuals who require law enforcement involvement. Emphasis is placed on patrol techniques, the principles and application of defense and pursuit driving. Students are trained in the reasonable responses to resistance or aggression and are taught self-defense techniques. The student will comply with all the student performance objectives and requisite proficiencies as mandated by the Ohio Peace Officer Training Commission curriculum.

**Prerequisite:** Admission into the peace officers academy training certificate program.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 12 lecture, 9.6 lab

**Grade Mode:** Standard Letter

**POTA 11004 PEACE OFFICERS ACADEMY IV 5 Credit Hours**

This course covers traffic enforcement, crash investigation, OVI enforcement, traffic technologies. Physical conditioning for law enforcement is mandatory. The student will comply with all the student performance objectives and requisite proficiencies as mandated by the Ohio Peace Officer Training Commission curriculum.

**Prerequisite:** Admission into the peace officers academy training certificate program.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 14.4 lecture, 3.6 lab

**Grade Mode:** Standard Letter

## Physical Therapist Assistant Technology (PTST)

**PTST 10000 INTRODUCTION TO PHYSICAL THERAPIST ASSISTANT 1 Credit Hour**

Introduces the physical therapy profession; current and historical physical therapist practice; and the role, responsibilities and expectations of a Physical Therapist Assistant.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 1 lecture

**Grade Mode:** Standard Letter

**PTST 10001 PRINCIPLES OF PATIENT CARE IN PHYSICAL THERAPY 4 Credit Hours**

Students develop an understanding of the underlying principles of basic physical therapy procedures and the applications of these concepts in the physical therapy setting.

**Prerequisite:** Admission to technical study; and physical therapist assistant technology major.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 3 lecture, 3 lab

**Grade Mode:** Standard Letter

**PTST 10003 CLINICAL CONDITIONS I 2 Credit Hours**

Introduction to the pathology, treatment and clinical implications for medical conditions commonly encountered in physical therapy practice: Integumentary, cardiovascular, pulmonary, endocrine and digestive systems.

**Prerequisite:** Admission to technical study; and physical therapist assistant technology major.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**PTST 10004 PHYSICAL THERAPY PROCEDURES I 4 Credit Hours**

Theory and techniques of treatment procedures with emphasis on modalities. Maintenance of equipment and supplies.

**Prerequisite:** Admission to technical study; and physical therapist assistant technology major.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 3 lecture, 3 lab

**Grade Mode:** Standard Letter

**PTST 10010 TRANSITIONS IN PHYSICAL THERAPY 8 Credit Hours**

Validates prior learning in the course content of PTST 10004, PTST 20003, PTST 20004; builds knowledge necessary for the physical therapist assistant technology (PTST) degree; and prepares students who have previously completed an approved allied health program for advanced placement in PTST. Students successfully completing this course with a grade of C (2.000) or better will receive six (6) transfer credit hours.

**Prerequisite:** Physical therapist assistant technology transition concentration; and special approval.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 7 lecture, 3 lab

**Grade Mode:** Standard Letter

**PTST 11005 PHYSICAL THERAPY PRACTICE I 2 Credit Hours**

Learn the essentials of safe, ethical, legal, and value-based behaviors in patient care. Acquire documentation skills and prepare for clinical education.

**Prerequisite:** Admission to technical study; and physical therapist assistant technology major.

**Schedule Type:** Seminar

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**PTST 11092 CLINICAL EDUCATION I (ELR) 1 Credit Hour**

Observes and participate in providing selected physical therapy services under the direct supervision of a licensed PT or PTA.

**Prerequisite:** Admission to technical study; and PTST 11005; and physical therapist assistant technology major.

**Schedule Type:** Practical Experience

**Contact Hours:** 10 other

**Grade Mode:** Satisfactory/Unsatisfactory

**Attributes:** Experiential Learning Requirement

**PTST 20001 THERAPEUTIC COMMUNICATIONS IN PHYSICAL THERAPY 1 Credit Hour**

Focus on understanding human behavior. Emotional needs of individuals. Therapeutic use of self. Development of communication skills and interpersonal relationships.

**Prerequisite:** Admission to technical study; and physical therapist assistant technology major.

**Schedule Type:** Seminar

**Contact Hours:** 1 other

**Grade Mode:** Standard Letter

**PTST 20003 CLINICAL CONDITIONS II 2 Credit Hours**

Study of medical conditions commonly encountered in PTST 11005. The focus is on orthopedic, psychiatric, and geriatric illnesses, disorders and diseases. Pharmacology interventions are also covered.

**Prerequisite:** Admission to technical study; and physical therapist assistant technology.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**PTST 20004 PHYSICAL THERAPY PROCEDURES II 4 Credit Hours**

Basic principles, therapeutic effects and techniques of therapeutic exercises used in Physical Therapy practice.

**Prerequisite:** Admission to technical study; and Admission to the physical therapist assistant technology major; and AHS 22002 and AHS 22003.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 3 lecture, 3 lab

**Grade Mode:** Standard Letter

**PTST 20006 PHYSICAL REHABILITATION PROCEDURES 4 Credit Hours**

Principles and techniques of therapeutic interventions for rehabilitation in physical therapy practice.

**Prerequisite:** Admission to technical study; and PTST 20004 and BSCI 11020; and physical therapist assistant technology major.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 3 lecture, 3 lab

**Grade Mode:** Standard Letter

**PTST 20008 CLINICAL CONDITIONS III 2 Credit Hours**

Discussion of neurological pathologies across the lifespan, treatment of the medically complex patient and functional testing for the geriatric patient.

**Prerequisite:** Admission to technical study; and physical therapist assistant technology major.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**PTST 21095 SPECIAL TOPICS IN PHYSICAL THERAPIST ASSISTANT TECHNOLOGY 1-4 Credit Hours**

(Repeatable maximum 6 times for credit) Special topics in Physical Therapist Assistant Technology; topics announced when scheduled.

**Prerequisite:** Physical therapist assistant technology major.

**Schedule Type:** Lecture

**Contact Hours:** 1-4 lecture

**Grade Mode:** Standard Letter

**PTST 21096 INDIVIDUAL INVESTIGATION IN PHYSICAL THERAPIST ASSISTANT TECHNOLOGY 1-3 Credit Hours**

(Repeatable maximum 6 times for credit) Individual study in physical therapist assistant technology and related fields; open to PTST majors.

**Prerequisite:** Physical therapist assistant technology major.

**Schedule Type:** Individual Investigation

**Contact Hours:** 1-3 other

**Grade Mode:** Standard Letter

**PTST 22005 PHYSICAL THERAPY PRACTICE II 2 Credit Hours**

Understand the current professional, legal, and regulatory implications in the provision of PT services.

**Prerequisite:** Admission to technical study; and PTST 11005; and physical therapist assistant technology major.

**Schedule Type:** Seminar

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**PTST 22007 PHYSICAL THERAPY PRACTICE III 2 Credit Hours**

Preparation for licensure, employment and career development as a physical therapist assistant.

**Prerequisite:** Admission to technical study; and physical therapist assistant technology major.

**Schedule Type:** Seminar

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**PTST 22010 TRANSITIONS TO PHYSICAL THERAPY PRACTICE 2  
Credit Hours**

Athletic Trainers transitioning to physical therapy practice prepare for employment and licensure. Explores reimbursement regulations, evidence based practice, and various topics related to health care systems, and discuss current topics in the practice of physical therapy.

**Prerequisite:** Special approval.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**PTST 22092 CLINICAL EDUCATION PRACTICUM II (ELR) 2 Credit  
Hours**

Provide physical therapy services under the direct supervision of a licensed PT or PTA.

**Prerequisite:** Admission to technical study; and PTST 11005 with a minimum C grade; and PTST 11092 with a grade of satisfactory.

**Schedule Type:** Practical Experience

**Contact Hours:** 10 other

**Grade Mode:** Satisfactory/Unsatisfactory

**Attributes:** Experiential Learning Requirement

**PTST 22392 ATHLETIC TRAINING PLUS PHYSICAL THERAPIST  
ASSISTANT CLINICAL EDUCATION PRACTICUM (ELR) 4 Credit Hours**

Provide physical therapy services of an entry-level physical therapist assistant, under the supervision of a licensed PT or PTA.

**Prerequisite:** PTST 11005 with a minimum C grade; and PTST 11092; and special approval.

**Corequisite:** PTST 22010.

**Schedule Type:** Practical Experience

**Contact Hours:** 480 other

**Grade Mode:** Standard Letter

**Attributes:** Experiential Learning Requirement

**PTST 23092 CLINICAL EDUCATION PRACTICUM III (ELR) 2 Credit  
Hours**

Provide physical therapy services of an entry-level physical therapist assistant, under the supervision of a licensed PT or PTA.

**Prerequisite:** Admission to technical study; and PTST 11005 and PTST 22092; physical therapist assistant technology major.

**Schedule Type:** Practical Experience

**Contact Hours:** 10 other

**Grade Mode:** Satisfactory/Unsatisfactory

**Attributes:** Experiential Learning Requirement

## Radiologic and Imaging Science (RIS)

**RIS 34001 INTRODUCTION TO DIAGNOSTIC MEDICAL SONOGRAPHY  
1 Credit Hour**

Provides an introduction to diagnostic medical sonography. The course orients new students to the profession. Topics covered include basic sonographic principles, scanning technique, and introduction patient management techniques.

**Prerequisite:** Special approval.

**Schedule Type:** Lecture

**Contact Hours:** 1 lecture

**Grade Mode:** Standard Letter

**RIS 34003 RADIATION THERAPY PRINCIPLES AND PRACTICE I 3  
Credit Hours**

An overview of cancer, radiation therapy and its physical and technical aspects. Includes the roles/responsibilities of the therapist, treatment parameters, documentation and delivery of patient care, education and procedures.

**Prerequisite:** Radiologic and imaging sciences major.

**Corequisite:** RIS 34030.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter-IP

**RIS 34004 RADIATION THERAPY PATIENT MANAGEMENT 3 Credit  
Hours**

Provides the basic concepts in patient assessment and evaluation.

Includes communication skills, infection control, nutrition, medications, exams, emergencies, patient transfer techniques, medical ethics and law as applied to radiation therapy.

**Prerequisite:** Radiologic and imaging sciences major.

**Corequisite:** RIS 34030.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter-IP

**RIS 34008 RADIATION THERAPY PHYSICS I 3 Credit Hours**

Introduction to radiation therapy physics, including the fundamentals of atomic structure, radiation properties, radiation production, radiation quality, interactions of radiation with matter and principles of radiation detectors.

**Prerequisite:** Radiologic and imaging sciences major.

**Corequisite:** RIS 34030.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**RIS 34030 RADIATION THERAPY CLINICAL EDUCATION I 1 Credit  
Hour**

Observation and supervised clinical education with emphasis on administering radiation therapy treatments and patient care.

**Prerequisite:** Radiologic and imaging sciences major; and special approval.

**Schedule Type:** Clinical Laboratory, Laboratory

**Contact Hours:** 2.5 lab, 5 other

**Grade Mode:** Standard Letter-IP

**RIS 34040 PATIENT MANAGEMENT IN DIAGNOSTIC MEDICAL  
SONOGRAPHY 3 Credit Hours**

Methods of patient management in diagnostic medical sonography are examined with emphasis on patient communication, clinical assessment, medical legal aspects, medical records, emergencies, pharmacology, safety issues, ethics and critical thinking.

**Prerequisite:** Radiologic and imaging sciences major.

**Corequisite:** RIS 34045.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter



**RIS 34042 ABDOMINAL SONOGRAPHY I 3 Credit Hours**

Anatomy, physiology and pathology of the abdomen; instrumentation and scanning techniques; normal and abnormal sonographic appearances of abdominal structures will be presented.

**Prerequisite:** Radiologic and imaging sciences major.

**Corequisite:** RIS 34045.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**RIS 34044 ULTRASOUND PHYSICS AND INSTRUMENTATION 3 Credit Hours**

Ultrasound principles to include interaction of sound with matter, propagation of sound in tissue, physical units, transducer parameters, image storage and display, quality assurance, bioeffects, image artifacts and physical principles of doppler.

**Prerequisite:** Radiologic and imaging sciences major.

**Corequisite:** RIS 34045.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**RIS 34045 ULTRASOUND CLINICAL EDUCATION I 2 Credit Hours**

Provides clinical education and experience at a lab and clinical site to allow students the opportunity to practice skills necessary to obtain high quality sonographic images, to alter protocols on patients and to identify image quality problems. Content includes sonography of the liver, gallbladder, pancreas and spleen.

**Prerequisite:** Radiologic and imaging sciences major; and special approval.

**Schedule Type:** Clinical Laboratory, Laboratory

**Contact Hours:** 3 lab, 1 other

**Grade Mode:** Standard Letter-IP

**RIS 34052 ABDOMINAL SONOGRAPHY II 3 Credit Hours**

Continuation of RIS 34042; anatomy, physiology and pathology of the abdomen; instrumentation and sonographic scanning techniques; normal and abnormal sonographic appearance of abdominal structures will be presented.

**Prerequisite:** RIS 34042; and radiologic and imaging sciences major.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**RIS 34060 ULTRASOUND CLINICAL EDUCATION II 4 Credit Hours**

Provides clinical education and experience at a clinical site to allow students the opportunity to practice skills necessary to obtain high quality sonographic images, to alter protocols based on patients and to identify image quality problems. Content includes sonography of the abdominal vessels, kidneys, adrenal glands, lymphatics and gynecologic pelvis.

**Prerequisite:** RIS 34045.

**Corequisite:** RIS 34052.

**Schedule Type:** Clinical Laboratory, Laboratory

**Contact Hours:** 3 lab, 5 other

**Grade Mode:** Standard Letter-IP

**RIS 34062 OBSTETRICS AND GYNECOLOGY SONOGRAPHY I 3 Credit Hours**

Anatomy and pathophysiology of the non-pregnant female pelvis; instrumentation and scanning techniques; normal and abnormal sonographic appearances; and findings of the female reproductive tract are covered.

**Prerequisite:** RIS 34045; and radiologic and imaging sciences major.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**RIS 34072 SUPERFICIAL STRUCTURES SONOGRAPHY 2 Credit Hours**

Anatomy and pathophysiology of superficial structures; instrumentation and scanning techniques; normal and abnormal sonographic appearances of superficial structures; correlation with laboratory findings and other imaging modalities are presented. Introductory pediatric sonographic techniques and pathology are presented.

**Prerequisite:** RIS 34083.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**RIS 34075 ULTRASOUND CLINICAL EDUCATION III 2 Credit Hours**

Provides clinical education and experience at clinical sites to allow students the opportunity to practice skills necessary to obtain high quality sonographic images, to alter protocols based on patients and to evaluate image quality. Content includes first, second and third trimester obstetric sonography and superficial structures sonography.

**Prerequisite:** RIS 34062.

**Corequisite:** RIS 44072.

**Schedule Type:** Clinical Laboratory, Laboratory

**Contact Hours:** 2 lab, 12 other

**Grade Mode:** Standard Letter-IP

**RIS 34083 SECTIONAL ANATOMY IN MEDICAL IMAGING 3 Credit Hours**

Presentation of sectional anatomy of the body in the transverse (axial), sagittal and coronal planes as seen in medical images in CT, MRI and diagnostic medical sonography.

**Prerequisite:** BSCI 11010 and BSCI 11020; or BSCI 21010 and BSCI 21020; and radiologic and imaging sciences major.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**RIS 34084 COMPUTED TOMOGRAPHY AND MAGNETIC RESONANCE IMAGING SECTIONAL ANATOMY I 2 Credit Hours**

Presentation of sectional anatomy of the human body in computed tomography and magnetic resonance imaging. Includes orientation of organs and structures and pathological processes present in images.

**Prerequisite:** Radiologic and imaging sciences major; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**RIS 34086 COMPUTED TOMOGRAPHY AND MAGNETIC RESONANCE IMAGING SECTIONAL ANATOMY II 2 Credit Hours**

Presentation of sectional anatomy of the human body in computed tomography and magnetic resonance imaging. Includes orientation of organs and structures and pathological processes present in images as seen in the extremities.

**Prerequisite:** RIS 34084; and radiologic and imaging sciences major.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**RIS 41095 SPECIAL TOPICS IN RADIOLOGIC AND IMAGING SCIENCES 1-3 Credit Hours**

(Repeatable for credit) Courses will consist of various topics in medical imaging designed to enhance learning outcomes.

**Prerequisite:** Radiologic and imaging sciences major.

**Schedule Type:** Lecture

**Contact Hours:** 1-3 lecture

**Grade Mode:** Standard Letter-IP

**RIS 44000 INTRODUCTION TO RADIATION THERAPY 2 Credit Hours**

An introduction to patient care techniques and clinical procedures for freshman entry students admitted to the RIS major in radiation therapy.

**Prerequisite:** Radiologic and imaging sciences major.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**RIS 44003 MAGNETIC RESONANCE IMAGING CLINICAL EDUCATION I 2 Credit Hours**

Students observe and become acquainted with MRI equipment and procedures at the clinical education setting and apply knowledge of physics, MRI safety and patient care. Students begin to perform some procedures under direct supervision of MRI technologists. Students attend clinicals 15 hours per week.

**Prerequisite:** Radiologic and imaging sciences major; and special approval.

**Schedule Type:** Clinical Laboratory, Laboratory

**Contact Hours:** 5 lab, 10 other

**Grade Mode:** Standard Letter-IP

**RIS 44004 COMPUTED TOMOGRAPHY CLINICAL EDUCATION I 2 Credit Hours**

Provides clinical education and experience at a clinical setting to allow the student the opportunity to become proficient in skills necessary to obtain quality images, to alter protocols based on patient pathology or physical condition, and to identify image quality problems and to make appropriate corrections under direct supervision of a CT Technologist.

**Prerequisite:** Radiologic and imaging sciences major; and special approval.

**Schedule Type:** Clinical Laboratory, Laboratory

**Contact Hours:** 5 lab, 10 other

**Grade Mode:** Standard Letter-IP

**RIS 44009 RADIATION THERAPY PRINCIPLES AND PRACTICE II 2 Credit Hours**

Examines the multidisciplinary treatment approaches. Consists of advanced topics in therapy, chemotherapy, immunotherapy, and surgery for combined modalities, for benign conditions, for emergencies and for managing side effects.

**Prerequisite:** RIS 34003.

**Corequisite:** RIS 44053.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**RIS 44018 RADIATION THERAPY PHYSICS II 3 Credit Hours**

Continuation of the principles of radiation therapy physics and the study of photon beam dosimetry, electron beam dosimetry and treatment planning.

**Prerequisite:** RIS 34008.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter-IP

**RIS 44021 PATIENT MANAGEMENT IN COMPUTED TOMOGRAPHY 2 Credit Hours**

Provides knowledge about care-giving skills for patients undergoing CT exams. Information includes effective communication, problem-solving techniques, patient safety/comfort, patient preparation, monitoring, contrast agents and venipuncture.

**Prerequisite:** Radiologic and imaging sciences major.

**Corequisite:** RIS 44004.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**RIS 44028 RADIATION THERAPY RADIOBIOLOGY 3 Credit Hours**

Establishes a foundation in radiation biology for radiation therapy. Cell biology and its response to radiation are reviewed as well as the effect of radiation on pathology and body systems.

**Prerequisite:** RIS 44018.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter-IP

**RIS 44029 RADIATION THERAPY PATHOLOGY I 3 Credit Hours**

General overview of various disease processes with emphasis on cancer types. Includes epidemiology, etiology, symptoms, metastases, histology, tumor grading, staging, detection, screening and diagnosis, treatment, side effects and prognosis of malignancies of the head and neck, central nervous, respiratory, digestive, and female reproductive systems.

**Prerequisite:** RIS 34003 and RIS 34083.

**Corequisite:** RIS 44053.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**RIS 44030 COMPUTED TOMOGRAPHY IMAGE PRODUCTION I 2 Credit Hours**

Computer fundamentals, operations and applications of CT equipment. Principles of CT system operation and components, image processing and display and image quality.

**Prerequisite:** Radiologic and imaging sciences major.

**Corequisite:** RIS 44004.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**RIS 44031 PATIENT MANAGEMENT IN MAGNETIC RESONANCE IMAGING 2 Credit Hours**

Provides information on the role of the MRI technologist in maintaining patient safety and comfort as well as personal and co-worker safety. MR contrast agents and venipuncture will be studied. Includes problem solving with diverse patient types.

**Prerequisite:** Radiologic and imaging sciences major.

**Corequisite:** RIS 44003.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**RIS 44038 RADIATION THERAPY PHYSICS III 3 Credit Hours**

Covers concepts of radioactivity and brachytherapy. Describes specialized treatment units Discussion of human resource, therapy department budgets and billing, accreditation, certification, professional societies.

**Prerequisite:** RIS 44018.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**RIS 44041 RADIATION THERAPY QUALITY MANAGEMENT 2 Credit Hours**

Provides overview of quality management programs and continuing quality improvement in radiation therapy. Topics include validity of quality assurance checks, chart checks, image checks, testing on simulators, linear accelerators and brachytherapy sources.

**Prerequisite:** RIS 44018.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter-IP

**RIS 44042 RADIATION THERAPY PATHOLOGY II 3 Credit Hours**

Continuation of Radiation Therapy Pathology I to include epidemiology, etiology, symptoms, metastases, histology, tumor grading, staging, detection, screening and diagnosis, treatment, side effects and prognosis of malignancies of the male reproductive, urinary, endocrine, circulatory, lymphatic, integumentary and musculoskeletal systems as well as pediatric solid malignancies.

**Prerequisite:** RIS 34083 and RIS 44029.

**Corequisite:** RIS 44056.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**RIS 44043 RADIATION THERAPY PRINCIPLES/PRACTICE III 3 Credit Hours**

Review and testing of major subject areas from all radiation therapy courses to prepare students to successfully pass the national certification exam based on the content specifications from the American Registry of Radiologic Technologists (ARRT).

**Prerequisite:** RIS 44009 and RIS 44018 and RIS 44028 and RIS 44042.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**RIS 44044 MAGNETIC RESONANCE IMAGING PROCEDURES I 2 Credit Hours**

Provides the imaging techniques related to the body, special clinical applications, coil selection, scan sequences, protocols, positioning criteria, normal and abnormal anatomical and pathologic structures and signal characteristics for all areas of the body except extremities and vascular areas.

**Prerequisite:** Radiologic and imaging science major.

**Corequisite:** RIS 44003.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**RIS 44045 MAGNETIC RESONANCE IMAGING PROCEDURES II 2 Credit Hours**

Provides the imaging techniques related to the body, special clinical applications, coil selection, scan sequences, protocols, positioning criteria, normal and abnormal anatomical and pathologic structures and signal characteristics for the extremities and vascular areas.

**Prerequisite:** RIS 44044; and radiologic and imaging science major.

**Corequisite:** RIS 44063.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**RIS 44047 COMPUTED TOMOGRAPHY PROCEDURES I 2 Credit Hours**

Introduction to CT procedures with scanning protocols, positioning and non-contrast anatomy.

**Prerequisite:** Radiologic and imaging science major.

**Corequisite:** RIS 44004.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**RIS 44048 COMPUTED TOMOGRAPHY PROCEDURES II 2 Credit Hours**

Overview of the procedures presented in CT Procedures I course, anatomy as seen on scans both with and without contrast media, advanced processing, and advanced imaging procedures.

**Prerequisite:** RIS 44047.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**RIS 44051 MAGNETIC RESONANCE EQUIPMENT AND IMAGE ACQUISITION I 2 Credit Hours**

Develops and understanding of the physics of MR image acquisition and the hardware used. Provides information in the use and manipulation of the instrumentation and technical parameters used in the generation of images. Establishes safety procedures.

**Prerequisite:** Radiologic and imaging science major.

**Corequisite:** RIS 44003.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**RIS 44052 MAGNETIC RESONANCE EQUIPMENT AND IMAGE ACQUISITION II 2 Credit Hours**

Develops an understanding of MR image acquisition and the hardware used. Provides information in the use and manipulation of the hardware and technical parameters used in the generation of images. Reviews safety special applications such as advanced imaging techniques. Enables the student to maximize MR image quality.

**Prerequisite:** RIS 44051; and radiologic and imaging science major.

**Corequisite:** RIS 44063.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**RIS 44053 RADIATION THERAPY CLINICAL EDUCATION II 3 Credit Hours**

Continuation of Clinical Education I with emphasis on clinical practice of treatment techniques and planning.

**Prerequisite:** RIS 34030.

**Schedule Type:** Clinical Laboratory, Laboratory

**Contact Hours:** 7.5 lab, 15 other

**Grade Mode:** Standard Letter-IP

**RIS 44054 COMPUTED TOMOGRAPHY CLINICAL EDUCATION II 2 Credit Hours**

Provides continued clinical education and experience at a clinical setting to allow the student the opportunity to become proficient in skills necessary to obtain quality images, to alter protocols based on patient pathology or physical condition, and to identify image quality problems and to make appropriate corrections under direct supervision of a CT Technologist. Student attends clinical education setting for 15 hours per week for 15 weeks.

**Prerequisite:** RIS 44004.

**Schedule Type:** Clinical Laboratory, Laboratory

**Contact Hours:** 5 lab, 10 other

**Grade Mode:** Standard Letter-IP

**RIS 44058 RADIATION THERAPY CLINICAL EDUCATION III 2 Credit Hours**

Continuation of Clinical Education II with added emphasis on critical thinking, problem solving and clinical competency.

**Prerequisite:** RIS 44053.

**Schedule Type:** Clinical Laboratory, Laboratory

**Contact Hours:** 5 lab, 10 other

**Grade Mode:** Standard Letter-IP

**RIS 44062 COMPUTED TOMOGRAPHY IMAGE PRODUCTION II 2 Credit Hours**

A continuation from Physical Principles of CT I, the course reviews basic CT components, operations and applications with advanced studies in post-processing techniques and image quality, while understanding the importance of radiation dose and quality control in CT.

**Prerequisite:** RIS 44030.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**RIS 44063 MAGNETIC RESONANCE IMAGING CLINICAL EDUCATION II 2 Credit Hours**

Continuation of MRI Clinical Education I. Students apply knowledge of patient care, anatomy and pathology, equipment and image acquisition when observing and performing MRI procedures clinically. Students attend the clinical education setting for 15 hours per week.

**Prerequisite:** RIS 44003.

**Schedule Type:** Clinical Laboratory, Laboratory

**Contact Hours:** 5 lab, 10 other

**Grade Mode:** Standard Letter-IP

**RIS 44066 MAGNETIC RESONANCE IMAGING TECHNIQUES 2 Credit Hours**

Integrates concepts of MRI including patient care, imaging procedures, data acquisition and processing as well as principles of image formation for review for the national certification exam in magnetic resonance imaging.

**Prerequisite:** RIS 44063; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**RIS 44067 RADIATION THERAPY CLINICAL EDUCATION IV 3 Credit Hours**

Continuation of Clinical Education III with added emphasis on critical thinking, problem solving and clinical competency.

**Prerequisite:** RIS 44058.

**Schedule Type:** Clinical Laboratory, Laboratory

**Contact Hours:** 2 lecture, 7.5 lab, 15 other

**Grade Mode:** Standard Letter-IP

**RIS 44068 COMPUTED TOMOGRAPHY TECHNIQUES 2 Credit Hours**

Students will review knowledge in each content area of the national certification exam in CT including patient management, imaging procedures, and physics and instrumentation.

**Prerequisite:** RIS 44054; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**RIS 44069 COMPUTED TOMOGRAPHY CLINICAL EDUCATION III 1 Credit Hour**

Allows students to advance clinical education skills and experiences at a clinical setting in order to obtain quality images, objectively alter protocols based on patient pathology or physical condition, and to identify image quality problems and to make appropriate corrections under the direct supervision of a CT Technologist. Student will attend a clinical education site for 10 days during the semester.

**Prerequisite:** RIS 44054.

**Schedule Type:** Clinical Laboratory, Laboratory

**Contact Hours:** 2.5 lab, 5 other

**Grade Mode:** Standard Letter-IP

**RIS 44072 OBSTETRICS AND GYNECOLOGY SONOGRAPHY II 3 Credit Hours**

Embryonic and fetal development throughout gestation; fetal measurements, normal fetal anatomy and physiology; and abnormal sonographic appearances of the fetus will be covered as well as invasive obstetric procedures and antepartum testing.

**Prerequisite:** RIS 34062.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**RIS 44073 MAGNETIC RESONANCE IMAGING CLINICAL EDUCATION III 1 Credit Hour**

Continuation of Clinical Education II with student advancing skills and proficiency in performing MRI procedures in the clinical setting and are able to solve problems in a more independent manner. Students will complete 10 clinical days throughout the term.

**Prerequisite:** RIS 44063.

**Schedule Type:** Clinical Laboratory, Laboratory

**Contact Hours:** 2.5 lab, 5 other

**Grade Mode:** Standard Letter-IP

**RIS 44074 VASCULAR SONOGRAPHY 2 Credit Hours**

Anatomy, physiology and hemodynamics of the cerebrovascular, abdominal and peripheral vascular systems; normal and abnormal sonographic vascular appearances; Doppler instrumentation and scanning techniques are covered.

**Prerequisite:** Radiologic and imaging science major.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**RIS 44076 ULTRASOUND CLINICAL EDUCATION IV 4 Credit Hours**

Provides clinical education and experience at a clinical site to allow students the opportunity to practice skills necessary to obtain high quality sonographic images, to alter protocols based on patients and to identify image quality problems. Content includes abdominal, pelvic, obstetrical, superficial structure and vascular sonography.

**Prerequisite:** RIS 34075.

**Corequisite:** RIS 44074.

**Schedule Type:** Clinical Laboratory, Laboratory

**Contact Hours:** 4 lab, 24 other

**Grade Mode:** Standard Letter-IP

**RIS 44078 SONOGRAPHIC TECHNIQUES 3 Credit Hours**

Course integrates diagnostic medical sonography concepts in preparation for certification exams.

**Prerequisite:** RIS 34044 and 34052 and 44072.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**RIS 44083 PATHOPHYSIOLOGY FOR MEDICAL IMAGING 3 Credit Hours**

Provides students with basic information on the causes of disease and the body's response to disease, as well as the medical imaging modalities that will demonstrate them.

**Prerequisite:** RIS 34045 or RIS 44003 or RIS 44004; and radiologic and imaging science major.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**RIS 44084 ULTRASOUND IMAGE EVALUATION 1 Credit Hour**

Presentation of sonographic findings in specific disease processes, with evaluation of image quality and emphasis on diagnostic features of pathologic entities.

**Prerequisite:** Radiologic and imaging science major.

**Schedule Type:** Lecture

**Contact Hours:** 1 lecture

**Grade Mode:** Standard Letter

**RIS 44088 LEADERSHIP IN MEDICAL IMAGING 1 Credit Hour**

An introduction to the key strategies needed for success in health care leadership positions for both new and seasoned professionals. Includes supervision skills, competent communication, employment law, performance coaching, quality standards, accreditation and regulations, budgeting and finance, project management, leadership skills and health economics.

**Prerequisite:** Special approval.

**Schedule Type:** Lecture

**Contact Hours:** 1 lecture

**Grade Mode:** Standard Letter

**RIS 44096 INDIVIDUAL INVESTIGATION IN MEDICAL IMAGING DIRECTED READINGS 3 Credit Hours**

(Repeatable for credit) Students are assigned prescribed number of medical imaging journal articles, completes post test and submits a summary paper and online discussions.

**Prerequisite:** Radiologic and imaging science major; and special approval.

**Schedule Type:** Individual Investigation

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**RIS 44098 RESEARCH IN MEDICAL IMAGING (ELR) (WIC) 3 Credit Hours**

Fundamental concepts and procedures for systematic collection, analysis critique and application of qualitative and quantitative data in medical imaging.

**Prerequisite:** RIS 34030 or RIS 34045 or RIS 44003 or RIS 44004; and radiologic and imaging science major.

**Schedule Type:** Research

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**Attributes:** Experiential Learning Requirement, Writing Intensive Course

## Radiologic Technology (RADT)

**RADT 14003 INTRODUCTION TO RADIOLOGIC TECHNOLOGY 2 Credit Hours**

Introduction to radiologic technology program, general anatomy, radiographic procedures, imaging equipment and techniques, radiation protection, professional organizations and clinical education.

**Prerequisite:** Admission to technical study; and radiologic technology major.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 1.5 lecture, .5 lab

**Grade Mode:** Standard Letter

**RADT 14005 CLINICAL EDUCATION I 1 Credit Hour**

Supervised observation and experience at the clinical education site with emphasis on clinical practice of basic skills of radiologic technology and the exams covered in Radiographic Procedures I (chest and abdomen). Student is assigned to the clinical education site for 15 hours per week for 7.5 weeks in summer.

**Prerequisite:** None.

**Corequisite:** None.

**Schedule Type:** Clinical Laboratory, Laboratory

**Contact Hours:** 2.5 lab, 5 other

**Grade Mode:** Standard Letter-IP

**RADT 14006 RADIOGRAPHIC PROCEDURES I 1 Credit Hour**

Introduction to radiographic procedures and positioning of the chest and abdomen.

**Prerequisite:** None.

**Schedule Type:** Laboratory

**Contact Hours:** 2 lab

**Grade Mode:** Standard Letter

**RADT 14015 CLINICAL EDUCATION II 3 Credit Hours**

Continuation of Clinical Education I with emphasis on skeletal radiography that includes upper and lower extremities, shoulder and pelvic girdles, vertebral spine and bony thorax. Student is assigned to the clinical site 22.5 hours per week.

**Prerequisite:** RADT 14005 and 14006.

**Schedule Type:** Clinical Laboratory, Laboratory

**Contact Hours:** 7.5 lab, 15 other

**Grade Mode:** Standard Letter-IP

**RADT 14018 IMAGING EQUIPMENT 2 Credit Hours**

A study of the equipment used in radiographic imaging including x-ray tubes, x-ray filters, beam restrictors, grids, image receptors, fluoroscopic and mobile equipment and methods of quality control.

**Prerequisite:** None.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 1.8 lecture, .2 lab

**Grade Mode:** Standard Letter

**RADT 14021 RADIOGRAPHIC PROCEDURES II 4 Credit Hours**

Radiographic anatomy, positioning and image evaluation of the upper extremities, shoulder girdle, lower extremities, pelvic girdle, vertebral spine and bony thorax.

**Prerequisite:** None.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 3 lecture, 2 lab

**Grade Mode:** Standard Letter



**RADT 14024 RADIOGRAPHIC PROCEDURES III 4 Credit Hours**

Radiographic anatomy, positioning, procedures and image evaluation of the gastrointestinal, biliary and urinary systems and skull and facial bones positioning.

**Prerequisite:** BSCI 11010 or ATTR 25057 or EXSC 25057; and RADT 14021.

**Corequisite:** RADT 14025.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 3 lecture, 2 lab

**Grade Mode:** Standard Letter

**RADT 14025 CLINICAL EDUCATION III 3 Credit Hours**

Continuation of Clinical Education II with emphasis on clinical practice of previous course content plus digestive, biliary and urinary procedures as well as skull and facial bones positioning. Student assigned to clinical education setting 22.5 hours per week.

**Prerequisite:** RADT 14015.

**Corequisite:** RADT 14024.

**Schedule Type:** Clinical Laboratory, Laboratory

**Contact Hours:** 7.5 lab, 15 other

**Grade Mode:** Standard Letter-IP

**RADT 14034 IMAGE ACQUISITION AND PROCESSING 2 Credit Hours**

Study of the technical factors and process of image acquisition, factors affecting image quality, processing of digital images and data management.

**Prerequisite:** RADT 14018.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 1 lecture, 2 lab

**Grade Mode:** Standard Letter

**RADT 14085 CLINICAL EDUCATION IV 2 Credit Hours**

Continuation of Clinical Education III with emphasis on clinical practice of content in previous clinical courses. More emphasis on independent clinical practice of procedures previously mastered. Clinical and lab time is equivalent to 262.5 hours.

**Prerequisite:** RADT 14025.

**Schedule Type:** Clinical Laboratory, Laboratory

**Contact Hours:** 2.5 lab, 15 other

**Grade Mode:** Standard Letter-IP

**RADT 14096 INDIVIDUAL INVESTIGATION IN DIRECTED READINGS IN RADIOLOGIC TECHNOLOGY 3 Credit Hours**

(Repeatable for credit) Student selects prescribed number of medical journals, completes questions, paper and presentation.

**Prerequisite:** Special approval.

**Schedule Type:** Individual Investigation

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**RADT 21095 SPECIAL TOPICS IN RADIOLOGIC TECHNOLOGY 2-4 Credit Hours**

(Repeated registration permitted) Student participation course on topics pertinent to radiologic technology. Topics are chosen by the instructor. Student may enroll in course more than once.

**Prerequisite:** Special approval from instructor.

**Schedule Type:** Lecture

**Contact Hours:** 2-4 lecture

**Grade Mode:** Standard Letter

**RADT 24008 RADIOBIOLOGY AND RADIATION PROTECTION 3 Credit Hours**

Biological aspects of radiation, radiation interaction with matter, minimizing patient radiation exposure, and personnel protection are topics covered.

**Prerequisite:** BSCI 11010 and BSCI 11020, or BSCI 21010 and BSCI 21020, or ATTR 25057 and ATTR 25058, or EXSC 25057 and EXSC 25058; and RADT 14003.

**Corequisite:** RADT 24015.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**RADT 24015 CLINICAL EDUCATION V 3 Credit Hours**

Continuation of Clinical Education IV with emphasis on clinical practice of content of previous clinical courses. More emphasis on independent clinical practice previously mastered. Students assigned to clinical education setting 22.5 hours per week and rotates to special medical imaging areas.

**Prerequisite:** None.

**Corequisite:** AHS 24014.

**Schedule Type:** Clinical Laboratory, Laboratory

**Contact Hours:** 7.5 lab, 15 other

**Grade Mode:** Standard Letter-IP

**RADT 24016 IMAGING PHYSICS 3 Credit Hours**

Introduction to general physics, units and measurement, atomic structure, electromagnetic energy, x-ray production, electrostatics, magnetism and electromagnetic devices, x-ray tube and x-ray circuitry.

**Prerequisite:** RADT 14018.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**RADT 24025 CLINICAL EDUCATION VI 3 Credit Hours**

Continuation of Clinical Education V with emphasis on mastery of clinical procedures. Students assigned to clinical education site 22.5 hours per week.

**Prerequisite:** None.

**Schedule Type:** Clinical Laboratory, Laboratory

**Contact Hours:** 7.5 lab, 15 other

**Grade Mode:** Standard Letter-IP

**RADT 24048 RADIOGRAPHIC TECHNIQUES 3 Credit Hours**

Review of radiologic technology to include patient care, anatomy and physiology, radiologic procedures, equipment and image production, radiologic physics, and radiation protection in preparation for the radiography certification exam.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**RADT 24058 DIVERSIFIED EMPLOYMENT SKILLS 3 Credit Hours**

Course features multiple topics in medical imaging to prepare graduates for employment in healthcare.

**Prerequisite:** AHS 14016.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**RADT 24096 INDIVIDUAL INVESTIGATION IN RADIOLOGIC TECHNOLOGY 1 Credit Hour**

Directed research of special interest or need in the student's program. A research paper will be written on an assigned topic in radiologic technology.

**Prerequisite:** Admission to technical study; and RADT 14003 with a minimum C grade; and radiologic technology major.

**Schedule Type:** Individual Investigation

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**RADT 24196 INDIVIDUAL INVESTIGATION IN ADVANCED READINGS IN RADIOLOGIC TECHNOLOGY 3 Credit Hours**

(Repeatable for credit) Course permits scholarly activities for research, study and summary of medical journal articles. Information aids in understanding recent advancements in medical imaging.

**Prerequisite:** Admission to technical study; and radiologic technology major.

**Schedule Type:** Individual Investigation

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

## Real Estate and Related Technologies (RERT)

**RERT 11000 REAL ESTATE PRINCIPLES AND PRACTICES 3 Credit Hours**

Introduction to listing, selling, real estate math, legal descriptions of property and contracts.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**RERT 11001 REAL ESTATE LAW 3 Credit Hours**

Review of basic Ohio laws covering the functions of an agency and the legal aspects of real estate transactions.

**Prerequisite:** RERT 11000.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**RERT 11003 REAL ESTATE FINANCING 2 Credit Hours**

Covers types of institutions, instruments and procedures involved in financing real estate transactions. Covers nature and characteristics of mortgage loans and nature of mortgage market.

**Prerequisite:** RERT 11000.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**RERT 21000 REAL ESTATE APPRAISAL 2 Credit Hours**

Emphasizes methodology of appraising urban real property and appraisal techniques. Presents market approach to residential appraisal.

**Prerequisite:** RERT 11000.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**RERT 21003 SPECIAL TOPICS IN REAL ESTATE 2 Credit Hours**

(Repeatable for credit) Seminar involving discussion of current issues and solutions to special problems in real estate investment, management and brokerage operations.

**Prerequisite:** RERT 11000 and RERT 11001 and RERT 11003 and RERT 21000.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

## Regional College (RC)

**RC 00003 CORE READING STRATEGIES FOR COLLEGE SUCCESS 3 Credit Hours**

Development of reading strategies necessary for successful completion of college coursework. Emphasis on improving reading comprehension. The credit hours completed for this course do not count toward graduation.

**Prerequisite:** ACT Reading score of 0-13; or SAT Critical Reading or Verbal score of 0-350; or Compass score of 0-60 (required if student does not have ACT or SAT score).

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**RC 00006 CRITICAL READING STRATEGIES FOR COLLEGE SUCCESS 3 Credit Hours**

Development and application of content area reading and study strategies for successful completion of college coursework. Emphasis on application of study strategies. Credit hours for this course do not count toward graduation.

**Prerequisite:** ACT reading 14-19 score; or SAT writing 360-460 score (if taken before 2016); or SAT writing and language 20-24 score (if taken after 2016); or Accuplacer reading comprehension 51-79 score; or Compass 61-79 score (if student does not have ACT or SAT score).

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**RC 00009 SWIFT KICK STUDY SKILLS 1 Credit Hour**

Development of study strategies necessary for successful completion of college coursework. The credit hour completed for this course does not count toward graduation.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 1 lecture

**Grade Mode:** Standard Letter

**RC 20195 SPECIAL TOPICS 1-3 Credit Hours**

Subject varies depending on the need and faculty. Prerequisite: None

**Schedule Type:** Lecture

**Contact Hours:** 1-3 lecture

**Grade Mode:** Standard Letter

## Respiratory Care (RSPC)

### RSPC 30000 PROFESSIONAL PRACTICE IN RESPIRATORY CARE 3 Credit Hours

Course guides students in responsible professional practice and encourages personal development of the skills and key traits of the professional. The importance of continuing professional development, being reflective, ethical, accountable and culturally competent are also explored.

**Prerequisite:** Respiratory care major.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

### RSPC 30002 LEADERSHIP AND MANAGEMENT IN RESPIRATORY CARE 3 Credit Hours

Course allows students to utilize their knowledge and experience in understanding leadership as a team leader or team member in the practice of respiratory care. Management in respiratory care is explored, including hospital organization; department structure; outcomes; staffing, billing, budgeting and staff development; decision-making; and effective communication.

**Prerequisite:** Respiratory care major.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

### RSPC 30004 EDUCATIONAL INSTRUCTION IN RESPIRATORY CARE 3 Credit Hours

Course guides students in perspectives on teaching and learning, characteristics of the learner and techniques and strategies for teaching and learning. Delivery of respiratory therapy education in various settings.

**Prerequisite:** Respiratory care major.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

### RSPC 30006 SLEEP MEDICINE AND POLYSOMNOGRAPHY 3 Credit Hours

A fundamental overview of a variety of sleep and breathing disorders that affect sleep. Topics include the identification of normal sleep and sleep disorders, methods of diagnosing sleep disorders, and treatment options. Practice in comparing and evaluating the indications and contraindications for sleep studies and evaluating sleep study results in relation to types of respiratory sleep disorders.

**Prerequisite:** Respiratory care major.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

### RSPC 31095 SPECIAL TOPICS IN RESPIRATORY CARE 1-3 Credit Hours

(Repeatable for credit) Scheduled topics of interest to students and faculty.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 1-3 lecture

**Grade Mode:** Standard Letter

### RSPC 40000 DISEASE MANAGEMENT IN RESPIRATORY CARE 3 Credit Hours

Provides an advanced understanding of the pathophysiology and management of cardiopulmonary disease and comorbidities. Provides training in critical thinking in the management of chronic disease and utilization of patient-therapist participation principles; patient communication, evaluation, development of care plans and action plans utilizing evidence-based medicine; and protocols and clinical practice guidelines.

**Prerequisite:** Respiratory care major.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

### RSPC 40002 RESEARCH DEVELOPMENT IN RESPIRATORY CARE (WIC) 3 Credit Hours

Introduces the respiratory care practitioner to research methodology and design, their application to health science research and the application of research to everyday health care.

**Prerequisite:** MATH 10040 or MATH 10041 or MGMT 24056 or BMRT 21004 or PH 30002 or PSYC 21621 or SOC 32220 and SOC 32221; and ENG 21011 or HONR 10297; and respiratory care major.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Writing Intensive Course

### RSPC 40004 ADVANCED PRACTICE IN RESPIRATORY CARE 3 Credit Hours

Explores the traditional practice roles filled by respiratory therapists; the advanced practice roles that exist, as well as those that are emerging within the profession; and the career opportunities they represent for practitioners.

**Prerequisite:** Admission to professional study; and respiratory care major.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

### RSPC 40006 CONTEMPORARY ISSUES AND TRENDS IN RESPIRATORY CARE 3 Credit Hours

Analysis of contemporary issues and trends in respiratory care and their impact and influence on the profession. **Prerequisite:** Respiratory care major

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

### RSPC 40008 CHRONIC DISEASE MANAGEMENT PRINCIPLES 3 Credit Hours

This course focuses on the application of critical thinking in the area of managing chronic disease and the impact healthcare professionals have on affecting positive patient population outcomes. Current practices, utilization of evidence-based medicine, protocols and current principles and trends in managing the impact of acute to chronic disease are discussed.

**Prerequisite:** Respiratory care major.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**RSPC 40075 INFORMATION AND PATIENT CARE TECHNOLOGY FOR HEALTHCARE PROFESSIONALS 3 Credit Hours**

(Cross-listed with NURS 40075) Focuses on the use of information management and information systems, technology and the human technology interface utilized in professional practice.

**Prerequisite:** Admission to professional study; and respiratory care major.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**RSPC 41092 PRACTICUM FOR RESPIRATORY CARE (ELR) 3 Credit Hours**

An individually planned practicum that provides students the opportunity to explore real world application of program principles and practice options, or to conduct research within the realm of respiratory care under the guidance of a registered respiratory therapy practitioner. Focus is on options for practice or enhancing practice through application of program principles. Student's practicum experience requires prior faculty approval before registration.

**Pre/corequisite:** Admission to professional study; and RSPC 30000; RSPC 30002; RSPC 30004; RSPC 30006; RSPC 40006; RSPC 40075 or NURS 40075; NURS 46000; RSPC 40002; RSPC 40004; RSPC 40000 or RSPC 40008; and special approval.

**Schedule Type:** Practical Experience

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Experiential Learning Requirement

## Respiratory Therapy Technology (RTT)

**RTT 10000 INTRODUCTION TO RESPIRATORY THERAPY 4 Credit Hours**

Establishes a foundation in the profession of respiratory care. Topics include: patient assessment and monitoring, medical gas and humidity therapy, infection control, communication and diversity, clinical environment, patient education, disaster management, ethics and law, quality assurance and evidence based medicine, industry standards, healthcare reimbursement.

**Prerequisite:** Admission to technical study.

**Schedule Type:** Laboratory, Lecture

**Contact Hours:** 3 lecture, 2.5 lab

**Grade Mode:** Standard Letter

**RTT 11001 RESPIRATORY CARE PHARMACOLOGY 2 Credit Hours**

Basic principles in pharmacology, specific to respiratory care, covering the pharmacokinetic action of drugs, administration, calculations, and effects on the body systems.

**Prerequisite:** RTT 11003 with a minimum C grade.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**RTT 11002 CARDIOPULMONARY DISEASES 3 Credit Hours**

A study of diseases and disorders affecting the cardiopulmonary system; etiology, pathophysiology, clinical manifestations, analyzing and interpreting data, constructing respiratory care plans and the role of the respiratory therapist in treatment.

**Prerequisite:** RTT 10000 and RTT 11003 with a minimum C grade.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**RTT 11003 APPLICATION AND MECHANISMS OF CARDIOPULMONARY ANATOMY AND PHYSIOLOGY 3 Credit Hours**

Provides a solid foundation in cardiopulmonary anatomy and physiology with relevant applied physiology as it relates to the profession of respiratory care.

**Prerequisite:** Admission to technical study; and respiratory therapy technology major.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**RTT 11004 THERAPEUTICS 6 Credit Hours**

Introduction to inhaled medication administration, hyperinflation therapy, bronchopulmonary hygiene, and airway management. There is a laboratory and clinical component.

**Prerequisite:** RTT 10000 and RTT 11003 with a minimum C grade.

**Schedule Type:** Clinical Laboratory, Laboratory, Lecture

**Contact Hours:** 4 lecture, 3 lab, 8 other

**Grade Mode:** Standard Letter

**RTT 11006 INTRODUCTION TO CLINICAL RESPIRATORY CARE 3 Credit Hours**

Introduction to patient assessment and monitoring, communication, infection control, medical records, medical gas and humidity therapy, and the clinical environment. There is a laboratory component.

**Prerequisite:** Admission to technical study; and respiratory therapy technology major.

**Schedule Type:** Laboratory, Lecture

**Contact Hours:** 2 lecture, 3 lab

**Grade Mode:** Standard Letter

**RTT 11008 BLOOD GAS ANALYSIS 2 Credit Hours**

A study of methods, equipment, and procedures for obtaining arterial blood; additionally, the principles and standards of analysis and applications of physiological data is stressed.

**Prerequisite:** RTT 10000 and RTT 11003 with a minimum C grade.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 1.5 lecture, 1.5 lab

**Grade Mode:** Standard Letter

**RTT 21000 CRITICAL CARE 4 Credit Hours**

An advanced-level course that provides a foundation for managing patients in critical care utilizing mechanical ventilation, pharmacology, and hemodynamic monitoring systems. Students perform, interpret and apply data, and learn advanced life support. There is a clinical component.

**Prerequisite:** RTT 21001 and RTT 21003 with a minimum C grade.

**Schedule Type:** Clinical Laboratory, Lecture

**Contact Hours:** 3 lecture, 16 other

**Grade Mode:** Standard Letter

**RTT 21001 MECHANICAL VENTILATION 5 Credit Hours**

Establishes a foundation of mechanical ventilation and associated equipment; assessment, monitoring and modifying parameters. There is a laboratory and clinical component.

**Prerequisite:** RTT 11001 or AHS 12000 with a minimum C grade; and RTT 11002, RTT 11004, RTT 11008; and BSCI 11010 and BSCI 11020 or BSCI 21010 and BSCI 21020; and PHY 12111 or PHY 13001; and CHEM 10050 or CHEM 10055 or CHEM 10060; and ENG 11011 or ENG 21011 or HONR 10197 or HONR 10297.

**Schedule Type:** Clinical Laboratory, Laboratory, Lecture

**Contact Hours:** 4 lecture, 4 lab, 16 other

**Grade Mode:** Standard Letter

**RTT 21003 PERINATAL AND PEDIATRIC RESPIRATORY THERAPY 2 Credit Hours**

An intense study of assessing, providing, and evaluating neonatal and pediatric respiratory care. Topics include: assessment of growth and development from conception to delivery, resuscitation, persistent illness, therapeutic interventions, and managing mechanical ventilation.

**Prerequisite:** RTT 11001 or AHS 12000 with a minimum grade of C; and minimum C grade in RTT 11002 and RTT 11004 and RTT 11008.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 1.5 lecture, 1.5 lab

**Grade Mode:** Standard Letter

**RTT 21004 ADVANCED DIAGNOSTICS 3 Credit Hours**

Provides knowledge and skills necessary to work effectively in a pulmonary function laboratory. Topics include: spirometry, testing standards and techniques, equipment set up and utilization, analyzing test results and applying them in the clinical setting.

**Prerequisite:** RTT 11003 and RTT 11008 with a minimum C grade.

**Schedule Type:** Laboratory, Lecture

**Contact Hours:** 2 lecture, 1 lab

**Grade Mode:** Standard Letter

**RTT 21005 PULMONARY REHABILITATION AND CONTINUING CARE 2 Credit Hours**

Roles and functions of respiratory therapists in cardiopulmonary rehabilitation and home care.

**Prerequisite:** RTT 21001 with a minimum C grade.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**RTT 21006 PULMONARY REHABILITATION AND CONTINUING CARE 1 Credit Hour**

Roles and functions of respiratory therapists in cardiopulmonary rehabilitation and home care.

**Prerequisite:** RTT 21001 with a minimum C grade.

**Schedule Type:** Lecture

**Contact Hours:** 1 lecture

**Grade Mode:** Standard Letter

**RTT 21010 RESPIRATORY THERAPY CAPSTONE COURSE 3 Credit Hours**

Contemporary issues and trends in respiratory care; preparation for the CRT and RRT credentialing examinations; obtaining employment after graduation. There is a laboratory and clinical component.

**Prerequisite:** RTT 21000 with a minimum C grade.

**Schedule Type:** Clinical Laboratory, Laboratory, Lecture

**Contact Hours:** 1 lecture, 3 lab, 16 other

**Grade Mode:** Standard Letter

**RTT 21012 BASIC RESEARCH DEVELOPMENT AND ANALYSIS 2 Credit Hours**

Survey of research problems, methods, and designs utilized in respiratory care with a focus on developing analytical and critiquing skills.

**Prerequisite:** RTT 21000 with a minimum C grade.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**RTT 21013 RESPIRATORY THERAPY CAPSTONE 2 Credit Hours**

Contemporary issues and trends in respiratory care# preparation for the CRT and RRT credentialing examinations# obtaining employment after graduation.

**Prerequisite:** Minimum C (2.000) grade in RTT 21000.

**Schedule Type:** Clinical Laboratory, Laboratory, Lecture

**Contact Hours:** 1 lecture, 1 lab, 16 other

**Grade Mode:** Standard Letter

**RTT 21095 SPECIAL TOPICS IN RESPIRATORY THERAPY 1-3 Credit Hours**

(Repeatable for credit) Scheduled topics of interest to students and faculty.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 1-3 lecture

**Grade Mode:** Standard Letter

**RTT 21096 INDIVIDUAL INVESTIGATION IN RESPIRATORY THERAPY 1-3 Credit Hours**

(Repeatable for a maximum of 6 credit hours) Readings and/or investigation of respiratory therapy topics supervised by respiratory therapy faculty.

**Prerequisite:** Respiratory therapy technology majors.

**Schedule Type:** Individual Investigation

**Contact Hours:** 1-3 other

**Grade Mode:** Satisfactory/Unsatisfactory

## Technical and Applied Studies (TAS)

**TAS 37900 TECHNICAL AND APPLIED STUDIES CORNERSTONE 3 Credit Hours**

Cornerstone course instructs students about how the work role in industrial and information societies has evolved to its current organization. Students personalize the information by reflecting on the role of work in their own lives by reviewing theory and application of their own career management; examine the stages of career development; job stress; entrepreneurial careers; and organization.

**Prerequisite:** Technical and applied studies, information technology or engineering technology major.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**TAS 47999 TECHNICAL AND APPLIED STUDIES CAPSTONE (ELR) 3 Credit Hours**

Designed to help students articulate and integrate the competencies that are part of their bachelor's degree program. In part, an electronic portfolio is used to help describe familiarity with the competencies.

**Prerequisite:** Technical and Applied Studies major, Information Technology major, Insurance Studies major or Engineering Technology major.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Experiential Learning Requirement



## Veterinary Technology (VTEC)

### VTEC 10001 INTRODUCTION TO VETERINARY TECHNOLOGY 2 Credit Hours

Introduction to veterinary technician's career: medical terminology, career choices, occupational safety, human-animal bond, pet loss, euthanasia, animal husbandry and basic nutrition, breed identification, basic animal behavior.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

### VTEC 10002 VETERINARY NURSING I 3 Credit Hours

Introduction to animal nursing: record keeping, kennel sanitation, animal restraint, syringe and needle identification/handling, injection techniques, physical exams, grooming and administration of medications. Lecture two hours, laboratory 3 hours weekly.

**Prerequisite:** Admission to technical study; and veterinary technology major.

**Schedule Type:** Laboratory, Lecture, Combined Lecture and Lab

**Contact Hours:** 2 lecture, 3 lab

**Grade Mode:** Standard Letter

### VTEC 10204 CLINICAL LABORATORY I 3 Credit Hours

Introduction to clinical laboratory: equipment and equipment maintenance; internal and external parasites; urinalysis. Lecture 2 hours, laboratory 3 hours weekly.

**Prerequisite:** Veterinary technology major.

**Schedule Type:** Laboratory, Lecture, Combined Lecture and Lab

**Contact Hours:** 2 lecture, 3 lab

**Grade Mode:** Standard Letter

### VTEC 10205 VETERINARY NURSING II 3 Credit Hours

Clinical application off-site. Emphasis on skills from VTEC 10002; physical exam, medications, blood vessels catheterization, venipuncture; fluid therapy, wound care, patient rehabilitation and physical therapy, first aid, bandaging and CPR.

**Prerequisite:** Minimum C grade in BSCI 10005 and CHEM 10050 and HED 14020 and VTEC 10002 and VTEC 10204.

**Pre/corequisite:** VTEC 10001.

**Schedule Type:** Laboratory, Lecture, Combined Lecture and Lab

**Contact Hours:** 2 lecture, 3 lab

**Grade Mode:** Standard Letter

### VTEC 10206 PHARMACOLOGY 2 Credit Hours

Regulations controlling the use of drugs and biologicals, classifications and mechanisms of action of pharmaceuticals, dosage calculations, labeling, packaging and dispensing of veterinary products. Lecture 2 hours weekly.

**Prerequisite:** BSCI 10005 and BSCI 10110 and CHEM 10052 and CHEM 10053 and HED 14020 and VTEC 10001 and VTEC 10002 and VTEC 10204.

**Pre/corequisite:** VTEC 10205.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

### VTEC 20008 CLINICAL LABORATORY II 3 Credit Hours

Continuation and application of laboratory skills from Clinical Laboratory I; hematology, serology, cytology and other laboratory skills. Lecture 2 hours, laboratory 3 hours weekly.

**Prerequisite:** Minimum C grade in BSCI 10005 and CHEM 10050 and VTEC 10002 and VTEC 10204.

**Pre/corequisite:** VTEC 10001 and VTEC 10205.

**Schedule Type:** Laboratory, Lecture, Combined Lecture and Lab

**Contact Hours:** 2 lecture, 3 lab

**Grade Mode:** Standard Letter

### VTEC 20009 VETERINARY NURSING III 3 Credit Hours

Continuing nursing skills/techniques emphasizing large animal species: restraint, venipuncture, behavior, breeds, feedstuffs, food safety, meds, preventive care, surgical procedures, lameness. Lecture 2 hours, laboratory 3 hours weekly. Pre.corequisite: VTEC 10206.

**Prerequisite:** BSCI 10110 and CHEM 10052 and CHEM 10053 and VTEC 10001 and VTEC 10002 and VTEC 10204 and VTEC 10205 and VTEC 20008.

**Schedule Type:** Laboratory, Lecture, Combined Lecture and Lab

**Contact Hours:** 2 lecture, 3 lab

**Grade Mode:** Standard Letter

### VTEC 20010 IMAGING TECHNIQUES 3 Credit Hours

Principles and application of the production of X-rays, processing, radiation safety, storage, patient positioning and other imaging techniques. Lecture 2 hours, laboratory 3 hours weekly.

**Prerequisite:** BSCI 10005 and BSCI 10110 and CHEM 10052 and CHEM 10053 and VTEC 10001 and VTEC 10002 and VTEC 10204 and VTEC 10205 and VTEC 20008.

**Pre/corequisite:** VTEC 10206.

**Schedule Type:** Laboratory, Lecture, Combined Lecture and Lab

**Contact Hours:** 2 lecture, 3 lab

**Grade Mode:** Standard Letter

### VTEC 20212 SURGERY AND ANESTHESIA 3 Credit Hours

Principles and application of the use of anesthetics, patient monitoring, dental prophylaxis, pre-surgery preparation, post-surgical patient care, sterilization, surgical preparation and assisting and equipment maintenance. Lecture 2 hours, laboratory 3 hours weekly.

**Prerequisite:** Minimum C grade in BSCI 10005 and BSCI 10110 and CHEM 10052 and CHEM 10053 and VTEC 10001 and VTEC 10002 and VTEC 10204 and VTEC 10205 and VTEC 20008.

**Pre/corequisite:** VTEC 10206.

**Schedule Type:** Laboratory, Lecture, Combined Lecture and Lab

**Contact Hours:** 2 lecture, 3 lab

**Grade Mode:** Standard Letter

### VTEC 20213 NUTRITION AND DISEASE 2 Credit Hours

Principles of the disease process, disease control and prevention of common diseases of domestic animals. Nutrition principles especially for clinical diseases will be covered. Lecture 2 hours weekly.

**Prerequisite:** BSCI 20021 and VTEC 20009 and VTEC 20010 and VTEC 20212.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**VTEC 20214 VETERINARY NURSING AND HOSPITAL PROCEDURES****3 Credit Hours**

Nursing procedures for laboratory and animal exotic procedures; procedures by a veterinary technician in a hospital environment including office and computer application. Lecture 1 hour, laboratory 6 hours weekly including computer applications.

**Prerequisite:** BSCI 20021 and VTEC 20009 and VTEC 20010 and VTEC 20212.

**Schedule Type:** Laboratory, Lecture, Combined Lecture and Lab

**Contact Hours:** 1 lecture, 6 lab

**Grade Mode:** Standard Letter

**VTEC 20215 VETERINARY OFFICE APPLICATIONS 1 Credit Hour**

Overview of veterinary practice management including veterinary medical record keeping, marketing, staff responsibilities, interoffice communications and public relation techniques. Automated veterinary office processing and record-keeping. Computer hardware and software commonly found in small to mid-sized veterinary practices described along with office procedures and work flow.

**Prerequisite:** BSCI 10005, VTEC 10001, VTEC 10002, VTEC 10204.

**Schedule Type:** Laboratory

**Contact Hours:** 3 lab

**Grade Mode:** Standard Letter

**VTEC 20216 LABORATORY AND EXOTIC ANIMAL MEDICINE 2 Credit Hours**

Introduction to laboratory medicine and management, including basic husbandry, common diseases, and treatment protocols for various laboratory animal species, pocket pets, avian and exotic species. The student will learn scientific names and primary use of common laboratory animals and will practice restraint, sexing, appropriate methods of venipuncture, administration of medications, and anesthetic techniques.

**Prerequisite:** VTEC 10001, VTEC 10205, VTEC 10206, VTEC 20008, VTEC 20010, VTEC 20212.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 1 lecture, 3 lab

**Grade Mode:** Standard Letter

**VTEC 20392 PRACTICUM IN VETERINARY HOSPITAL (ELR) 5 Credit Hours**

(Repeatable for credit) Students gain practical experience in veterinary clinic or approved clinical site to focus on mastery of all clinical skills needed for this career.

**Prerequisite:** BSCI 20021 and VTEC 20009 and VTEC 20010 and VTEC 20212.

**Corequisite:** VTEC 20213 and VTEC 20214.

**Schedule Type:** Practical Experience

**Contact Hours:** 5 other

**Grade Mode:** Standard Letter

**Attributes:** Experiential Learning Requirement

## Viticulture and Enology (VIN)

**VIN 10500 MOLECULAR PRINCIPLES IN GRAPE AND WINE 4 Credit Hours**

Covers the basic chemistry involved in the wine and winemaking process. Includes basic understanding of the chemistry involved in the fermentation process, flavor, aroma and color of wine.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 4 lecture

**Grade Mode:** Standard Letter-IP

**VIN 11100 INTRODUCTION TO VITICULTURE AND VINEYARD ESTABLISHMENT 3 Credit Hours**

Introduces students to current practices for establishing a commercial vineyard and maintaining its health and productivity once established. Topics covered include varietal selection, site preparation, equipment, site selection, first season establishment, vine growth development and training, trellis systems, vine propagation, weed control and vine disease control. Field work sessions consisting of 16 hours of hands-on experience is scheduled in area vineyards.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter-IP

**VIN 11200 BOTANICAL VITICULTURE 4 Credit Hours**

Provides students with an overview of the plant kingdom and an examination of grapevine form and function from a botanical perspective.

**Prerequisite:** None.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 3 lecture, 2 lab

**Grade Mode:** Standard Letter-IP

**VIN 11392 WINTER VITICULTURE FIELDWORK (ELR) 2 Credit Hours**

(Repeatable for credit) Provides students initiated in the field of viticulture practical experience in winter vineyard operations. Students are required to partner with an approved vineyard to participate in the required fieldwork portion of the course, which serves as experience for those seeking employment in commercial viticulture.

**Prerequisite:** VIN 11100.

**Schedule Type:** Field Experience, Lecture

**Contact Hours:** 1.5 lecture, 2.5 other

**Grade Mode:** Standard Letter-IP

**Attributes:** Experiential Learning Requirement

**VIN 11492 SPRING VITICULTURE FIELDWORK (ELR) 2 Credit Hours**

(Repeatable for credit) Designed to provide students initiated in the field of viticulture practical experience in spring vineyard operations. Students are required to partner with an approved vineyard to participate in the required fieldwork experience portion of the course, which serves as experience for those seeking employment in commercial viticulture.

**Prerequisite:** VIN 11100.

**Schedule Type:** Field Experience, Lecture

**Contact Hours:** 1.5 lecture, 2.5 other

**Grade Mode:** Standard Letter-IP

**Attributes:** Experiential Learning Requirement

**VIN 11592 SUMMER/FALL VITICULTURE FIELDWORK (ELR) 2 Credit Hours**

(Repeatable for credit) Provides viticulture students practical experience in summer and fall vineyard operations. Students are required to partner with an approved vineyard to participate in the required fieldwork portion of the course, which serves as experience for those seeking employment in commercial viticulture.

**Prerequisite:** VIN 11100.

**Schedule Type:** Field Experience, Lecture

**Contact Hours:** 1.5 lecture, 2.5 other

**Grade Mode:** Standard Letter-IP

**Attributes:** Experiential Learning Requirement

**VIN 11800 INTRODUCTION TO BREWING 3 Credit Hours**

This course is designed to introduce students to the basic principles of brewing on the home scale with an overview of brewing on the commercial scale. Students will learn about brewing, malt extracts, beer kits, brewing sugars, water, hops, yeast, boiling and cooling, fermentation, lagering beer, and priming and bottling. At the conclusion of this class, students will have the knowledge to brew small batches of beer successfully on the home scale. Prerequisite: None Pre/corequisites: None

Corequisites: None

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter-IP

**VIN 20095 SPECIAL TOPICS IN VITICULTURE AND ENOLOGY 1-3 Credit Hours**

(Repeatable for a maximum of 9 credit hours) Various special topics to be announced in the Schedule of Classes, offering current topics in viticulture and enology.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 1-3 lecture

**Grade Mode:** Standard Letter

**VIN 21100 INTEGRATED PEST MANAGEMENT 2 Credit Hours**

Effective grape production depends on the grower developing a system of grape management that is appropriate for each vineyard. Decisions need to be made for how to manage all of the normal cultural practices such as planting, fertility, harvesting and pruning, as well as managing the insect, disease and weed problems that occur either regularly or sporadically. Course addresses management issues related to common, expected pest problems, as well as the occasional appearance of minor pest problems.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter-IP

**VIN 21300 REGIONAL VINEYARD MANAGEMENT 2 Credit Hours**

A general study of vineyard management in the general wine growing regions in the Continental United States. Covers management of the mature vineyard from region to region and builds on the topics covered in prerequisite course.

**Prerequisite:** VIN 11100.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter-IP

**VIN 29300 SOILS FOR VITICULTURE 3 Credit Hours**

Explores soil properties and behavior and their influence on wines. Focuses not only on growth and production, but on the long-term effects of viticulture on soil quality and the wider environment.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter-IP

## Accounting Technology - A.A.B.

College of Applied and Technical Studies

cats@kent.edu

www.kent.edu/cats

## Description

The Associate of Applied Business degree in Accounting Technology provides students with a broad range of practical accounting and communication skills and teamwork experience. These combined skills prepare students for immediate entry into the accounting technology field in numerous environments, including manufacturing, retail, service and governmental organizations.

The degree program articulates with select bachelor's degrees at Kent State.

### Fully Offered at:

- Online
- Ashtabula Campus
- East Liverpool Campus
- Trumbull Campus
- Tuscarawas Campus

## Admission Requirements

The university affirmatively strives to provide educational opportunities and access to students with varied backgrounds, those with special talents and adult students who graduated from high school three or more years ago.

Kent State campuses at Ashtabula, East Liverpool, Geauga, Salem, Stark, Trumbull and Tuscarawas, and the Twinsburg Academic Center, have open enrollment admission for students who hold a high school diploma, GED or equivalent.

For more information on admissions, contact the Regional Campuses admissions offices.

## Program Learning Outcomes

Graduates of this program will be able to:

1. Apply generally accepted accounting principles (GAAP) to analyze and record business transactions, prepare financial statements and complete all other procedural steps in the accounting cycle of a company
2. Identify different manufacturing costs, record transactions to reflect the cost flow of a manufacturing company and prepare various management reports
3. Prepare individual tax returns (manual and electronic)
4. Maintain accounting records of a company utilizing a general ledger software package

## University Requirements

All students in an applied or technical associate degree program at Kent State University must complete the following university requirements for graduation.

**NOTE:** University requirements may be fulfilled in this program by specific course requirements, please see Program Requirements for details.

Code	Title	Credit Hours
Destination Kent State: First Year Experience		1
Course is not required for students with 25 transfer credits, excluding College Credit Plus, or age 21+ at time of admission.		

Kent Core (see table below)	15
<b>Total Credit Hour Requirement</b>	<b>60</b>

Some associate degrees require students to complete more than 60 credit hours.

## Kent Core Requirements

Kent Core Composition (KCOMP)	3
Kent Core Mathematics and Critical Reasoning (KMCR)	3
Kent Core Humanities and Fine Arts (KHUM/KFA)	3
Kent Core Social Sciences (KSS)	3
Kent Core Basic Sciences (KBS/KLAB)	3
<b>Total Credit Hours:</b>	<b>15</b>

## Graduation Requirements

Minimum Major GPA	Minimum Overall GPA
2.000	2.000

## Program Requirements

### Major Requirements

Code	Title	Credit Hours
<b>Major Requirements (courses count in major GPA)</b>		
ACTT 11000	ACCOUNTING I: FINANCIAL (min C grade)	4
ACTT 11001	ACCOUNTING II: MANAGERIAL (min C grade)	4
ACTT 20012	ACCOUNTING SOFTWARE APPLICATIONS (min C grade)	3
ACTT 21000	ACCOUNTING III: FINANCIAL (min C grade)	3
ACTT 21003	FUNDAMENTALS OF TAX PREPARATION (min C grade)	3
ACTT 31063	INTRODUCTION TO COST ACCOUNTING (min C grade)	3
BMRT 11000	INTRODUCTION TO BUSINESS	3
Technical Electives, choose from the following: <sup>1</sup>		
Accounting Technology (ACTT) Courses		
Business Management Technology (BMRT) Courses		
Information Technology (IT) Courses		
Office Technology (OTEC) Courses		
<b>Additional Requirements (courses do not count in major GPA)</b>		
COMM 15000	INTRODUCTION TO HUMAN COMMUNICATION (KADL)	3
ECON 22060	PRINCIPLES OF MICROECONOMICS (KSS)	3
ECON 22061	PRINCIPLES OF MACROECONOMICS (KSS)	3
ENG 20002	INTRODUCTION TO TECHNICAL WRITING	3
or OTEC 26638	BUSINESS COMMUNICATIONS	
MATH 11010	ALGEBRA FOR CALCULUS (KMCR)	3
UC 10097	DESTINATION KENT STATE: FIRST YEAR EXPERIENCE	1
Kent Core Composition <sup>2</sup>		
Kent Core Humanities and Fine Arts		
Kent Core Basic Sciences		
General Electives (total credit hours depends on earning 63 credit hours)		
Minimum Total Credit Hours:		63

<sup>1</sup> Courses should be selected in consultation with an advisor. Students preparing to pursue an B.B.A. degree may apply MATH 10041 and MATH 11012 toward technical electives.

<sup>2</sup> 3 credit hours are required for Kent Core (University Requirements). This program requires a total of 6 credit hours to earn the degree.

## Roadmap

This roadmap is a recommended semester-by-semester plan of study for this major. However, courses designated as critical (!) must be completed in the semester listed to ensure a timely graduation.

Semester One		Credits
!	ACTT 11000 ACCOUNTING I: FINANCIAL	4
!	BMRT 11000 INTRODUCTION TO BUSINESS	3
	UC 10097 DESTINATION KENT STATE: FIRST YEAR EXPERIENCE	1
	Kent Core Composition	3
	Kent Core Humanities or Fine Arts	3
	Technical Elective	3
	Credit Hours	17
Semester Two		
!	ACTT 11001 ACCOUNTING II: MANAGERIAL	4
	COMM 15000 INTRODUCTION TO HUMAN COMMUNICATION (KADL)	3
	MATH 11010 ALGEBRA FOR CALCULUS (KMCR)	3
	Technical Elective	3
	General Elective	3
	Credit Hours	16
Semester Three		
!	ACTT 21000 ACCOUNTING III: FINANCIAL	3
!	ACTT 21003 FUNDAMENTALS OF TAX PREPARATION	3
	ECON 22060 PRINCIPLES OF MICROECONOMICS (KSS)	3
	Kent Core Basic Sciences	3
	Kent Core Composition	3
	Credit Hours	15
Semester Four		
!	ACTT 20012 ACCOUNTING SOFTWARE APPLICATIONS	3
!	ACTT 31063 INTRODUCTION TO COST ACCOUNTING	3
	ECON 22061 PRINCIPLES OF MACROECONOMICS (KSS)	3
	ENG 20002 INTRODUCTION TO TECHNICAL WRITING or OTEC 26638 or BUSINESS COMMUNICATIONS	3
	Technical Elective	3
	Credit Hours	15
	Minimum Total Credit Hours:	63

## Agribusiness - B.S.

### College of Applied and Technical Studies

cats@kent.edu

www.kent.edu/cats

## Description

The Bachelor of Science degree in Agribusiness is designed to meet the agribusiness industry's needs for professionals and entrepreneurs who have the educational background to become successful decision-makers in the rapidly changing agribusiness world. Students take a blend of courses in business and agriculture, giving them a balance between the decision-making framework of business and the technical aspects of modern agriculture and food systems. In addition, students have the opportunity to interact with agribusiness professionals as invited speakers in the classroom and in work-related internships.

## Fully Offered at:

- Tuscarawas Campus

## Admission Requirements

The university affirmatively strives to provide educational opportunities and access to students with varied backgrounds, those with special talents and adult students who graduated from high school three or more years ago.

**Freshman Students on the Kent Campus:** The freshman admission policy on the Kent Campus is selective. Admission decisions are based upon the following: cumulative grade point average, ACT and/or SAT scores, strength of high school college preparatory curriculum and grade trends. The Admissions Office at the Kent Campus may defer the admission of students who do not meet admissions criteria but who demonstrate areas of promise for successful college study. Deferred applicants may begin their college coursework at one of seven regional campuses of Kent State University. For more information on admissions, including additional requirements for some academic programs, visit the admissions website for new freshmen.

**Freshman Students on the Regional Campuses:** Kent State campuses at Ashtabula, East Liverpool, Geauga, Salem, Stark, Trumbull and Tuscarawas, as well as the Regional Academic Center in Twinsburg, have open enrollment admission for students who hold a high school diploma, GED or equivalent.

**English Language Proficiency Requirements for International Students:** All international students must provide proof of English language proficiency (unless they meet specific exceptions) by earning a minimum 525 TOEFL score (71 on the Internet-based version), minimum 75 MELAB score, minimum 6.0 IELTS score or minimum 48 PTE score, or by completing the ESL level 112 Intensive Program. For more information on international admission, visit the Office of Global Education's admission website.

**Transfer, Transitioning and Former Students:** For more information about admission criteria for transfer, transitioning and former students, please visit the admissions website.

## Program Learning Outcomes

Graduates of the program will be able to:

1. Demonstrate in-depth knowledge of the agribusiness industry
2. Evaluate and apply agriculture principles, methods and techniques in an agribusiness environment
3. Possess strong analytical and problem-solving skills to identify and critically assess problems facing the agribusiness industry
4. Work effectively in a team-based environment
5. Communicate clearly and effectively both orally and in writing
6. Use computer technology and mathematical reasoning
7. Demonstrate ethical and professional understanding and conduct

## University Requirements

All students in a bachelor's degree program at Kent State University must complete the following university requirements for graduation.



**NOTE:** University requirements may be fulfilled in this program by specific course requirements. Please see Program Requirements for details.

Destination Kent State: First Year Experience	1
Course is not required for students with 25 transfer credits, excluding College Credit Plus, or age 21+ at time of admission.	
Diversity Domestic/Global (DIVD/DIVG)	2 courses
Students must successfully complete one domestic and one global course, of which one must be from the Kent Core.	
Experiential Learning Requirement (ELR)	varies
Students must successfully complete one course or approved experience.	
Kent Core (see table below)	36-37
Writing-Intensive Course (WIC)	1 course
Students must earn a minimum C grade in the course.	
Upper-Division Requirement	39 (or 42)
Students must successfully complete 39 upper-division (numbered 30000 to 49999) credit hours to graduate. Students in a B.A. and/or B.S. degree in the College of Arts and Sciences must complete 42 upper-division credit hours.	
Total Credit Hour Requirement	120
Some bachelor's degrees require students to complete more than 120 credit hours.	

## Kent Core Requirements

Kent Core Composition (KCOMP)	6
Kent Core Mathematics and Critical Reasoning (KMCR)	3
Kent Core Humanities and Fine Arts (KHUM/KFA) (min one course each)	9
Kent Core Social Sciences (KSS) (must be from two disciplines)	6
Kent Core Basic Sciences (KBS/KLAB) (must include one laboratory)	6-7
Kent Core Additional (KADL)	6
<b>Total Credit Hours:</b>	<b>36-37</b>

## Program Requirements

### Major Requirements

Code	Title	Credit Hours
<b>Major Requirements (courses count in major GPA)</b>		
ACTT 11000	ACCOUNTING I: FINANCIAL <sup>1</sup>	4
ACTT 11001	ACCOUNTING II: MANAGERIAL <sup>1</sup>	4
AGRI 20000	ECONOMIC PERSPECTIVES ON FOOD AND AGRICULTURE	3
AGRI 30000	FARM BUSINESS MANAGEMENT	3
AGRI 31000	AGRIBUSINESS MANAGEMENT	3
AGRI 32000	FARM RECORDS ANALYSIS AND INCOME TAX MANAGEMENT	3
AGRI 33000	AGRICULTURAL COMMODITY MARKETING	3
AGRI 34000	LIVESTOCK PRODUCTION MANAGEMENT	3
AGRI 35000	CROP AND FORAGE PRODUCTION MANAGEMENT	3
AGRI 40000	ADVANCED FARM BUSINESS MANAGEMENT	3
AGRI 40092	AGRIBUSINESS INTERNSHIP (ELR)	3
AGRI 41000	AGRICULTURAL PRICE ANALYSIS	3
AGRI 42000	AGRICULTURAL FINANCE	3

AGRI 43000	AGRICULTURAL ENVIRONMENTAL LAW	3
AGRI 44000	AGRICULTURAL AND INTERNATIONAL TRADE POLICY	3
AGRI 45000	SENIOR SEMINAR (WIC) <sup>2</sup>	3
BMRT 11000	INTRODUCTION TO BUSINESS	3
BMRT 11009	INTRODUCTION TO MANAGEMENT TECHNOLOGY	3
BMRT 21000	BUSINESS LAW AND ETHICS I	3
BMRT 21050	FUNDAMENTALS OF MARKETING TECHNOLOGY	3
BMRT 31006	HUMAN RESOURCE MANAGEMENT	3
ECON 22060	PRINCIPLES OF MICROECONOMICS (KSS)	3
ECON 22061	PRINCIPLES OF MACROECONOMICS (KSS)	3
Business Management Elective, choose from the following:		3
BMRT 21008	CASE STUDIES IN MANAGEMENT AND ENTREPRENEURSHIP	
BMRT 21020	INTRODUCTION TO ENTREPRENEURSHIP	
BMRT 21052	PROFESSIONAL SELLING TECHNIQUES	
BMRT 21053	ADVERTISING IN BUSINESS	

### Additional Requirements (courses do not count in major GPA)

BSCI 10110	BIOLOGICAL DIVERSITY (KBS) (KLAB)	4
COMM 15000	INTRODUCTION TO HUMAN COMMUNICATION (KADL)	3
MATH 11010	ALGEBRA FOR CALCULUS (KMCR)	3
MATH 11012	INTUITIVE CALCULUS (KMCR)	3
or MATH 10041	INTRODUCTORY STATISTICS (KMCR)	
UC 10097	DESTINATION KENT STATE: FIRST YEAR EXPERIENCE	1

Kent Core Composition	6
Kent Core Humanities and Fine Arts (minimum one course from each)	9
Kent Core Social Sciences	3
Kent Core Basic Sciences	2
General Electives (total credit hours depends on earning 120 credit hours, including 39 upper-division credit hours) <sup>3</sup>	12

Minimum Total Credit Hours: 120

<sup>1</sup> ACTT 11000 is equivalent to ACCT 23020; and ACTT 11001 is equivalent to ACCT 23021.

<sup>2</sup> A minimum C grade must be earned to fulfill the writing-intensive requirement.

<sup>3</sup> Students planning to declare the Business minor should take IT 11000 and FIN 36063 and review the minor's admission and graduation criteria.

## Graduation Requirements

Minimum Major GPA	Minimum Overall GPA
2.000	2.000

## Roadmap

This roadmap is a recommended semester-by-semester plan of study for this major. However, courses designated as critical (!) must be completed in the semester listed to ensure a timely graduation.

Semester One		Credits
ACTT 11000	ACCOUNTING I: FINANCIAL	4
AGRI 20000	ECONOMIC PERSPECTIVES ON FOOD AND AGRICULTURE	3
BMRT 11009	INTRODUCTION TO MANAGEMENT TECHNOLOGY	3
UC 10097	DESTINATION KENT STATE: FIRST YEAR EXPERIENCE	1
Kent Core Requirement		3
Credit Hours		14
Semester Two		Credits
ACTT 11001	ACCOUNTING II: MANAGERIAL	4
AGRI 30000	FARM BUSINESS MANAGEMENT	3
BMRT 11000	INTRODUCTION TO BUSINESS	3
MATH 11010	ALGEBRA FOR CALCULUS (KMCR)	3
Kent Core Requirement		3
Credit Hours		16
Semester Three		Credits
AGRI 31000	AGRIBUSINESS MANAGEMENT	3
BMRT 21000	BUSINESS LAW AND ETHICS I	3
ECON 22060	PRINCIPLES OF MICROECONOMICS (KSS)	3
MATH 11012	INTUITIVE CALCULUS (KMCR)	3
or	or INTRODUCTORY STATISTICS (KMCR)	
MATH 10041		
Kent Core Requirement		3
Credit Hours		15
Semester Four		Credits
AGRI 32000	FARM RECORDS ANALYSIS AND INCOME TAX MANAGEMENT	3
BMRT 21050	FUNDAMENTALS OF MARKETING TECHNOLOGY	3
BSCI 10110	BIOLOGICAL DIVERSITY (KBS) (KLAB)	4
ECON 22061	PRINCIPLES OF MACROECONOMICS (KSS)	3
Kent Core Requirement		3
Credit Hours		16
Semester Five		Credits
AGRI 33000	AGRICULTURAL COMMODITY MARKETING	3
BMRT 31006	HUMAN RESOURCE MANAGEMENT	3
COMM 15000	INTRODUCTION TO HUMAN COMMUNICATION (KADL)	3
Business Management Elective		3
Kent Core Requirement		3
Credit Hours		15
Semester Six		Credits
AGRI 34000	LIVESTOCK PRODUCTION MANAGEMENT	3
AGRI 35000	CROP AND FORAGE PRODUCTION MANAGEMENT	3
AGRI 40000	ADVANCED FARM BUSINESS MANAGEMENT	3
Kent Core Requirement		3
General Electives		2
Credit Hours		14
Semester Seven		Credits
AGRI 41000	AGRICULTURAL PRICE ANALYSIS	3

AGRI 42000	AGRICULTURAL FINANCE	3
AGRI 43000	AGRICULTURAL ENVIRONMENTAL LAW	3
Kent Core Requirement		3
General Electives		3
Credit Hours		15
Semester Eight		Credits
! AGRI 40092	AGRIBUSINESS INTERNSHIP (ELR)	3
AGRI 44000	AGRICULTURAL AND INTERNATIONAL TRADE POLICY	3
! AGRI 45000	SENIOR SEMINAR (WIC)	3
General Electives		6
Credit Hours		15
Minimum Total Credit Hours:		120

## Agribusiness -Minor

### College of Applied and Technical Studies

cats@kent.edu

www.kent.edu/cats

## Description

The Agribusiness minor gives students an overview of the major concepts, theories, and methods of the discipline of Agribusiness.

### Fully Offered At:

- Tuscarawas Campus

## Admission Requirements

Admission to a minor is open to students declared in a bachelor's degree, the A.A.B. or A.A.S. degree or the A.T.S. degree (not Individualized Program major). Students declared only in the A.A. or A.S. degree or the A.T.S. degree in Individualized Program may not declare a minor. Students may not pursue a minor and a major in the same discipline.

## Program Requirements

### Minor Requirements

Code	Title	Credit Hours
<b>Certificate Requirements</b>		
ACTT 11000	ACCOUNTING I: FINANCIAL	4
ACTT 11001	ACCOUNTING II: MANAGERIAL	4
AGRI 20000	ECONOMIC PERSPECTIVES ON FOOD AND AGRICULTURE	3
AGRI 30000	FARM BUSINESS MANAGEMENT	3
AGRI 31000	AGRIBUSINESS MANAGEMENT	3
BMRT 11009	INTRODUCTION TO MANAGEMENT TECHNOLOGY	3
ECON 22060	PRINCIPLES OF MICROECONOMICS (KSS)	3
Minimum Total Credit Hours:		23

### Graduation Requirement

Minimum Minor GPA	Minimum Overall GPA
2.000	2.000

- Minimum 6 credit hours in the minor must be upper-division coursework (30000 and 40000 level).

- Minimum 6 credit hours in the minor must be outside of the course requirements for any major or other minor the student is pursuing.
- Minimum 50 percent of the total credit hours for the minor must be taken at Kent State (in residence).

## Associate of Arts

### College of Applied and Technical Studies

cats@kent.edu

www.kent.edu/cats

## Description

The Associate of Arts degree is a generalist program that serves many purposes. The degree serves students who want a broad education by sampling a variety of different subject areas, who are planning to complete a bachelor's degree program, or who want to advance their careers by holding a degree. Because of the general nature of the program, students may specialize in a particular field of study that will meet their specific educational needs.

### Fully Offered At:

- Ashtabula Campus
- East Liverpool Campus
- Geauga Campus
- Salem Campus
- Stark Campus
- Trumbull Campus
- Tuscarawas Campus
- Twinsburg Academic Center

## Admission Requirements

The university affirmatively strives to provide educational opportunities and access to students with varied backgrounds, those with special talents and adult students who graduated from high school three or more years ago.

Kent State campuses at Ashtabula, East Liverpool, Geauga, Salem, Stark, Trumbull and Tuscarawas, and the Twinsburg Academic Center, have open enrollment admission for students who hold a high school diploma, GED or equivalent.

For more information on admissions, contact the Regional Campuses admissions offices.

### University Requirements

All students in the Associate of Arts or Associate of Science degree at Kent State University must complete the following university requirements for graduation.

**NOTE:** University requirements may be fulfilled in this program by specific course requirements, please see Program Requirements for details.

Code	Title	Credit Hours
	Destination Kent State: First Year Experience	1
	Course is not required for students with 25 transfer credits, excluding College Credit Plus, or age 21+ at time of admission.	
	Kent Core (see table below)	36-37

Total Credit Hour Requirement	60
Some associate degrees require students to complete more than 60 credit hours.	

### Kent Core Requirements

Kent Core Composition (KCOMP)	6
Kent Core Mathematics and Critical Reasoning (KMCR)	3
Kent Core Humanities and Fine Arts (KHUM/KFA) (min one course each)	9
Kent Core Social Sciences (KSS) (must be from two disciplines)	6
Kent Core Basic Sciences (KBS/KLAB) (must include one laboratory)	6-7
Kent Core Additional (KADL)	6
<b>Total Credit Hours:</b>	<b>36-37</b>

## Program Requirements

### Major Requirements

Code	Title	Credit Hours
<b>Major Requirements (courses count in major GPA)</b>		
	Electives Chosen in Students' Area of Interest	23
<b>Additional Requirements (courses do not count in major GPA)</b>		
UC 10097	DESTINATION KENT STATE: FIRST YEAR EXPERIENCE	1
	Kent Core Composition	6
	Kent Core Mathematics and Critical Reasoning	3
	Kent Core Humanities and Fine Arts (minimum one course from each)	9
	Kent Core Social Sciences (must be from two disciplines)	6
	Kent Core Basic Sciences (must include one laboratory)	6-7
	Kent Core Additional	6
	Minimum Total Credit Hours:	60

### Graduation Requirements

Minimum Major GPA	Minimum Overall GPA
2.000	2.000

## Roadmap

This roadmap is a recommended semester-by-semester plan of study for this major. However, courses designated as critical (!) must be completed in the semester listed to ensure a timely graduation.

Semester One		Credits
UC 10097	DESTINATION KENT STATE: FIRST YEAR EXPERIENCE	1
Kent Core Requirement		3
Kent Core Requirement		3
Kent Core Requirement		3
Kent Core Requirement		3
Elective		3
Credit Hours		16
Semester Two		Credits
Kent Core Requirement		3
Kent Core Requirement		3
Kent Core Requirement		3
Electives		6
Credit Hours		15
Semester Three		Credits
Kent Core Requirement		3
Kent Core Requirement		3
Kent Core Requirement		3
Electives		6
Credit Hours		15
Semester Four		Credits
Kent Core Requirement		3
Kent Core Requirement		3
Electives		8
Credit Hours		14
Minimum Total Credit Hours:		60

- Tuscarawas Campus
- Twinsburg Academic Center

## Admission Requirements

The university affirmatively strives to provide educational opportunities and access to students with varied backgrounds, those with special talents and adult students who graduated from high school three or more years ago.

Kent State campuses at Ashtabula, East Liverpool, Geauga, Salem, Stark, Trumbull and Tuscarawas, and the Twinsburg Academic Center, have open enrollment admission for students who hold a high school diploma, GED or equivalent.

For more information on admissions, contact the Regional Campuses admissions offices.

## University Requirements

All students in the Associate of Arts or Associate of Science degree at Kent State University must complete the following university requirements for graduation.

**NOTE:** University requirements may be fulfilled in this program by specific course requirements, please see Program Requirements for details.

Code	Title	Credit Hours
	Destination Kent State: First Year Experience	1
	Course is not required for students with 25 transfer credits, excluding College Credit Plus, or age 21+ at time of admission.	
	Kent Core (see table below)	36-37
	<b>Total Credit Hour Requirement</b>	<b>60</b>
	Some associate degrees require students to complete more than 60 credit hours.	

## Kent Core Requirements

Kent Core Composition (KCOMP)	6
Kent Core Mathematics and Critical Reasoning (KMCR)	3
Kent Core Humanities and Fine Arts (KHUM/KFA) (min one course each)	9
Kent Core Social Sciences (KSS) (must be from two disciplines)	6
Kent Core Basic Sciences (KBS/KLAB) (must include one laboratory)	6-7
Kent Core Additional (KADL)	6
<b>Total Credit Hours:</b>	<b>36-37</b>

## Associate of Science

### College of Applied and Technical Studies

cats@kent.edu  
www.kent.edu/cats

## Description

The Associate of Science degree is a generalist program that serves many purposes. The degree serves students who want a broad education by sampling a variety of different subject areas, who are planning to complete a bachelor's degree program, or who want to advance their careers by holding a degree. Because of the general nature of the program, students may specialize in a particular field of study that will meet their specific educational needs.

### Fully Offered At:

- Ashtabula Campus
- East Liverpool Campus
- Geauga Campus
- Salem Campus
- Stark Campus
- Trumbull Campus

## Program Requirements

### Major Requirements

Code	Title	Credit Hours
<b>Major Requirements (courses count in major GPA)</b>		
	Electives Chosen in Students' Area of Interest	23
<b>Additional Requirements (courses do not count in major GPA)</b>		
UC 10097	DESTINATION KENT STATE: FIRST YEAR EXPERIENCE	1
	Kent Core Composition	6
	Kent Core Mathematics and Critical Reasoning	3
	Kent Core Humanities and Fine Arts (minimum one course from each)	9

Kent Core Social Sciences (must be from two disciplines)	6
Kent Core Basic Sciences (must include one laboratory)	6-7
Kent Core Additional	6
Minimum Total Credit Hours:	60

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## Graduation Requirements

Minimum Major GPA	Minimum Overall GPA
2.000	2.000



## Roadmap

This roadmap is a recommended semester-by-semester plan of study for this major. However, courses designated as critical (!) must be completed in the semester listed to ensure a timely graduation.

Semester One		Credits
UC 10097	DESTINATION KENT STATE: FIRST YEAR EXPERIENCE	1
Kent Core Requirement		3
Kent Core Requirement		3
Kent Core Requirement		3
Kent Core Requirement		3
Elective		3
Credit Hours		16
Semester Two		
Kent Core Requirement		3
Kent Core Requirement		3
Kent Core Requirement		3
Electives		6
Credit Hours		15
Semester Three		
Kent Core Requirement		3
Kent Core Requirement		3
Kent Core Requirement		3
Electives		6
Credit Hours		15
Semester Four		
Kent Core Requirement		3
Kent Core Requirement		3
Electives		8
Credit Hours		14
Minimum Total Credit Hours:		60

## Business Management Technology - A.A.B.

College of Applied and Technical Studies

cats@kent.edu

www.kent.edu/cats

### Description

The Associate of Applied Business degree in Business Management Technology provides students with a core consisting of communication, management, accounting, marketing, e-commerce, economics and liberal arts courses. Students may have the opportunity to participate in internships, which help to link theory with hands-on practice.

The Business Management Technology major comprises the following concentrations:

- The **Business Administration** concentration articulates with the Bachelor of Business Administration degree at Kent State.
- The **Logistics and Supply Chain Management** concentration allows students to become knowledgeable in the process and supervision of the movement of products from the point origin to the point of consumption for consumers, business and other organizations.

- The **Management and Entrepreneurship** concentration comprises coursework in management, entrepreneurship and productivity applications.
- The **Marketing/Sales** concentration comprises coursework in management, advertising, customer service and productivity applications.

### Fully Offered at:

- Online
- Hybrid (online/on-ground)
- Ashtabula Campus
- East Liverpool Campus
- Geauga Campus
- Salem Campus
- Trumbull Campus
- Tuscarawas Campus
- Twinsburg Academic Center

## Admission Requirements

The university affirmatively strives to provide educational opportunities and access to students with varied backgrounds, those with special talents and adult students who graduated from high school three or more years ago.

Kent State campuses at Ashtabula, East Liverpool, Geauga, Salem, Stark, Trumbull and Tuscarawas, and the Twinsburg Academic Center, have open enrollment admission for students who hold a high school diploma, GED or equivalent.

For more information on admissions, contact the Regional Campuses admissions offices.

## Program Learning Outcomes

Graduates of this program will be able to:

1. Apply lessons learned by integrating business simulations into appropriate courses using Excel, Mylab or other simulation software
2. Discuss various aspects of teams in business: team dynamics, different types of teams, meeting rules and management
3. Research and share how businesses are currently working to improve their products, services and overall organizations
4. Understand business concepts and vocabulary
5. Demonstrate knowledge acquired by emphasizing public speaking, ethical problem solving, teamwork and multimedia presentations
6. Write in a formal and informal style
7. Demonstrate ability to work effectively in teams
8. Demonstrate knowledge of business and economic principles, concepts and vocabulary
9. Interpret local, state, national and international markets and regulations
10. Use appropriate technology for business applications, as well as review future technology needs
11. Identify, assess and solve specific problems for actual organizations, or address problems presented in a case-study
12. Distinguish between ethical and unethical business practices, and show an appreciation for diversity in the workplace

## University Requirements

All students in an applied or technical associate degree program at Kent State University must complete the following university requirements for graduation.

**NOTE:** University requirements may be fulfilled in this program by specific course requirements, please see Program Requirements for details.

Code	Title	Credit Hours
	Destination Kent State: First Year Experience	1
	Course is not required for students with 25 transfer credits, excluding College Credit Plus, or age 21+ at time of admission.	
	Kent Core (see table below)	15
	<b>Total Credit Hour Requirement</b>	<b>60</b>
	Some associate degrees require students to complete more than 60 credit hours.	

## Kent Core Requirements

Kent Core Composition (KCOMP)	3
Kent Core Mathematics and Critical Reasoning (KMCR)	3
Kent Core Humanities and Fine Arts (KHUM/KFA)	3
Kent Core Social Sciences (KSS)	3
Kent Core Basic Sciences (KBS/KLAB)	3
<b>Total Credit Hours:</b>	<b>15</b>

## Program Requirements

### Major Requirements

Code	Title	Credit Hours
<b>Major Requirements (courses count in major GPA)</b>		
ACTT 11000	ACCOUNTING I: FINANCIAL	4
BMRT 11000	INTRODUCTION TO BUSINESS	3
BMRT 11009	INTRODUCTION TO MANAGEMENT TECHNOLOGY	3
BMRT 21011	FUNDAMENTALS OF FINANCIAL MANAGEMENT	3
BMRT 21050	FUNDAMENTALS OF MARKETING TECHNOLOGY	3
BMRT 21052	PROFESSIONAL SELLING TECHNIQUES	3
IT 11000	INTRODUCTION TO OFFICE PRODUCTIVITY APPS	3
<b>Additional Requirements (courses do not count in major GPA)</b>		
BMRT 21000	BUSINESS LAW AND ETHICS I	3
COMM 15000	INTRODUCTION TO HUMAN COMMUNICATION (KADL)	3
ECON 22060	PRINCIPLES OF MICROECONOMICS (KSS)	3
UC 10097	DESTINATION KENT STATE: FIRST YEAR EXPERIENCE	1
Kent Core Composition		3
Kent Core Mathematics and Critical Reasoning <sup>1</sup>		3
Kent Core Basic Sciences		3
Kent Core Humanities or Fine Arts		3
General Elective (total credit hours depends on earning 60 credit hours)		1
<b>Concentrations</b>		
Choose from the following:		15

Business Administration	
Logistics and Supply Chain Management	
Management and Entrepreneurship	
Marketing/Sales	
<b>Minimum Total Credit Hours:</b>	<b>60</b>

<sup>1</sup> Students planning to pursue the B.B.A. degree are recommended to take MATH 11010 or MATH 11012 or MATH 12002.

## Business Administration Concentration Requirements

Code	Title	Credit Hours
<b>Concentration Requirements (courses count in major GPA)</b>		
ACTT 11001	ACCOUNTING II: MANAGERIAL	4
BMRT 21004	BUSINESS ANALYTICS I	3
ECON 22061	PRINCIPLES OF MACROECONOMICS (KSS)	3
<b>Additional Requirements (courses do not count in major GPA)</b>		
General Electives		5
<b>Minimum Total Credit Hours:</b>		<b>15</b>

## Logistics and Supply Chain Management Concentration Requirements

Code	Title	Credit Hours
<b>Concentration Requirements (courses count in major GPA)</b>		
BMRT 22000	GLOBAL LOGISTICS	3
BMRT 22099	SEMINAR IN LOGISTICS AND SUPPLY CHAIN MANAGEMENT	3
BMRT 31005	PURCHASING AND SUPPLY MANAGEMENT	3
BMRT 32020	LEAN SUSTAINABILITY	1
Concentration Elective, choose from the following:		3
Accounting Technology (ACTT) Course		
Business Management Technology (BMRT) Course		
Information Technology (IT) Course		
Insurance Studies (INS) Course		
Office Technology (OTEC) Course		
<b>Additional Requirements (courses do not count in major GPA)</b>		
General Elective		2
<b>Minimum Total Credit Hours:</b>		<b>15</b>

## Management and Entrepreneurship Concentration Requirements

Code	Title	Credit Hours
<b>Concentration Requirements (courses count in major GPA)</b>		
BMRT 21008	CASE STUDIES IN MANAGEMENT AND ENTREPRENEURSHIP	3
BMRT 21020	INTRODUCTION TO ENTREPRENEURSHIP	3
BMRT 31009	SEMINAR IN MANAGEMENT AND ENTREPRENEURSHIP	3
Concentration Elective, choose from the following:		3
Accounting Technology (ACTT) Course		
Business Management Technology (BMRT) Course		
Information Technology (IT) Course		
Insurance Studies (INS) Course		
Office Technology (OTEC) Course		

**Additional Requirements (courses do not count in major GPA)**

General Elective	3
Minimum Total Credit Hours:	15

**Marketing/Sales Concentration Requirements**

Code	Title	Credit Hours
<b>Concentration Requirements (courses count in major GPA)</b>		
BMRT 21008	CASE STUDIES IN MANAGEMENT AND ENTREPRENEURSHIP	3
BMRT 21053	ADVERTISING IN BUSINESS	3
BMRT 31009	SEMINAR IN MANAGEMENT AND ENTREPRENEURSHIP	3
BMRT 36415	CUSTOMER SERVICE	3
Concentration Elective, choose from the following:		3
Accounting Technology (ACTT) Course		
Business Management Technology (BMRT) Course		
Information Technology (IT) Course		
Insurance Studies (INS) Course		
Office Technology (OTEC) Course		
Minimum Total Credit Hours:		15

**Semester Four**

! BMRT 21052	PROFESSIONAL SELLING TECHNIQUES	3
Kent Core Requirement		3
Concentration Requirements and/or General Electives		7
Credit Hours		13
Minimum Total Credit Hours:		60

**Graduation Requirements**

Minimum Major GPA	Minimum Overall GPA
2.000	2.000

**Roadmap**

This roadmap is a recommended semester-by-semester plan of study for this major. However, courses designated as critical (!) must be completed in the semester listed to ensure a timely graduation.

Semester One			Credits
!	ACTT 11000	ACCOUNTING I: FINANCIAL	4
!	BMRT 11000	INTRODUCTION TO BUSINESS	3
	IT 11000	INTRODUCTION TO OFFICE PRODUCTIVITY APPS	3
	UC 10097	DESTINATION KENT STATE: FIRST YEAR EXPERIENCE	1
	Kent Core Requirement		3
	Kent Core Requirement		3
	Credit Hours		17
Semester Two			
!	BMRT 11009	INTRODUCTION TO MANAGEMENT TECHNOLOGY	3
	COMM 15000	INTRODUCTION TO HUMAN COMMUNICATION (KADL)	3
	ECON 22060	PRINCIPLES OF MICROECONOMICS (KSS)	3
	Kent Core Requirement		3
	Concentration Requirement or General Elective		3
	Credit Hours		15
Semester Three			
!	BMRT 21000	BUSINESS LAW AND ETHICS I	3
!	BMRT 21011	FUNDAMENTALS OF FINANCIAL MANAGEMENT	3
!	BMRT 21050	FUNDAMENTALS OF MARKETING TECHNOLOGY	3
	Kent Core Requirement		3
	Concentration Requirement or General Elective		3
	Credit Hours		15

# Business Management Technology - Undergraduate Certificate

College of Applied and Technical Studies

cats@kent.edu

www.kent.edu/cats

## Description

The Business Management Technology undergraduate certificate provides a background for both experienced and aspiring business managers. For the business manager who may already have a degree in a field other than business, the program offers professional certification. For the person who aspires to a management position, the certificate articulates well into an Associate of Applied Business degree.

## Fully Offered At:

- Ashtabula Campus
- Tuscarawas Campus

## Admission Requirements

The university affirmatively strives to provide educational opportunities and access to students with varied backgrounds, those with special talents and adult students who graduated from high school three or more years ago.

Kent State campuses at Ashtabula, East Liverpool, Geauga, Salem, Stark, Trumbull and Tuscarawas, and the Twinsburg Academic Center, have open enrollment admission for students who hold a high school diploma, GED or equivalent.

For more information on admissions, contact the Regional Campuses admissions offices.

## Program Requirements

### Certificate Requirements

Code	Title	Credit Hours
<b>Certificate Requirements</b>		
ACTT 11000	ACCOUNTING I: FINANCIAL	4
BMRT 11009	INTRODUCTION TO MANAGEMENT TECHNOLOGY	3
BMRT 21000	BUSINESS LAW AND ETHICS I	3
BMRT 21011	FUNDAMENTALS OF FINANCIAL MANAGEMENT	3
BMRT 21050	FUNDAMENTALS OF MARKETING TECHNOLOGY	3
BMRT 31006	HUMAN RESOURCE MANAGEMENT	3
IT 11000	INTRODUCTION TO OFFICE PRODUCTIVITY APPS	3
Minimum Total Credit Hours:		22

### Graduation Requirement

Minimum Certificate GPA	Minimum Overall GPA
2.000	2.000

## CAD for Manufacturing - Undergraduate Certificate

College of Applied and Technical Studies

cats@kent.edu

www.kent.edu/cats

### Description

The CAD for Manufacturing undergraduate certificate prepares students with hands-on training and instruction on a number of the most popular software tools used by industry in computer-aided drafting and design and in solid modeling.

### Fully Offered At:

- Tuscarawas Campus

### Admission Requirements

The university affirmatively strives to provide educational opportunities and access to students with varied backgrounds, those with special talents and adult students who graduated from high school three or more years ago.

Kent State campuses at Ashtabula, East Liverpool, Geauga, Salem, Stark, Trumbull and Tuscarawas, and the Twinsburg Academic Center, have open enrollment admission for students who hold a high school diploma, GED or equivalent.

For more information on admissions, contact the Regional Campuses admissions offices.

### Program Requirements

#### Certificate Requirements

Code	Title	Credit Hours
<b>Certificate Requirements</b>		
AGD 11003	SOLID MODELING	3
or ENGR 34002	ADVANCED COMPUTER-AIDED DESIGN II	
AGD 22000	TWO-DIMENSION COMMUNICATION	3
MERT 12000	ENGINEERING DRAWING	3
MERT 12001	COMPUTER-AIDED DESIGN	3
MERT 34002	ADVANCED SOLID MODELING	3
Minimum Total Credit Hours:		15

### Graduation Requirements

Minimum Certificate GPA	Minimum Overall GPA
2.000	2.000

## Computer Forensics and Information Security - Undergraduate Certificate

College of Applied and Technical Studies

cats@kent.edu

www.kent.edu/cats

### Description

The Computer Forensics and Information Security undergraduate certificate provides an introduction to information security and incident response, forensic preparation and data recovery and analysis.

### Fully Offered At:

- Ashtabula Campus
- Tuscarawas Campus

### Admission Requirements

The university affirmatively strives to provide educational opportunities and access to students with varied backgrounds, those with special talents and adult students who graduated from high school three or more years ago.

Kent State campuses at Ashtabula, East Liverpool, Geauga, Salem, Stark, Trumbull and Tuscarawas, and the Twinsburg Academic Center, have open enrollment admission for students who hold a high school diploma, GED or equivalent.

For more information on admissions, contact the Regional Campuses admissions offices.

### Program Requirements

#### Certificate Requirements

Code	Title	Credit Hours
<b>Certificate Requirements</b>		
CRIM 26704	ISSUES IN LAW AND SOCIETY (KSS)	3
IT 11005	INTRODUCTION TO OPERATING SYSTEMS AND NETWORKING TECHNOLOGY	3
IT 11009	COMPUTER ASSEMBLY AND CONFIGURATION	4
IT 21002	NETWORK SETUP AND CONFIGURATION	4
IT 36320	COMPUTER FORENSICS	3
IT 36330	LOCAL AREA NETWORK SECURITY FUNDAMENTALS	3
IT 46331	LOCAL AREA NETWORK SECURITY AND FIREWALLS	3
Minimum Total Credit Hours:		23

### Graduation Requirements

Minimum Certificate GPA	Minimum Overall GPA
2.500	2.000

## Computer Forensics and Security - Minor

College of Applied and Technical Studies

cats@kent.edu

www.kent.edu/cats



## Description

The Computer Forensics and Security minor is designed to complement a wide range of majors. Curriculum focuses on vulnerabilities, forensics and network security. Electives provide flexibility to tailor the minor to each student's interests and career goals. For example, a student might choose a more in-depth course in hardware, mobile applications, command line tools, networking or firewalls.

### Fully Offered At:

- Online
- Ashtabula Campus
- East Liverpool Campus
- Geauga Campus
- Kent Campus
- Salem Campus
- Stark Campus
- Trumbull Campus
- Tuscarawas Campus

## Admission Requirements

Admission to a minor is open to students declared in a bachelor's degree, the A.A.B. or A.A.S. degree or the A.T.S. degree (not Individualized Program major). Students declared only in the A.A. or A.S. degree or the A.T.S. degree in Individualized Program may not declare a minor. Students may not pursue a minor and a major in the same discipline.

## Minor Requirements

Code	Title	Credit Hours
<b>Minor Requirements</b>		
IT 21200	ETHICAL HACKING	3
IT 36320	COMPUTER FORENSICS	3
IT 36321	NETWORK FORENSICS	3
IT 36330	LOCAL AREA NETWORK SECURITY FUNDAMENTALS	3
Minor Electives, choose from the following:		6-7
IT 11009	COMPUTER ASSEMBLY AND CONFIGURATION	
IT 36309	PROGRAMMING MOBILE APPLICATIONS	
IT 36318	SURVEY OF INFORMATION SECURITY, INTERNET FRAUD AND COMPUTER FORENSICS (WIC)	
IT 36355	COMMAND LINE UTILITIES	
IT 40000	CYBERSECURITY	
IT 46310	TECHNOLOGY OF OPERATING SYSTEMS	
IT 46311	TECHNOLOGY OF NETWORKING	
IT 46320	CLOUD FORENSICS	
IT 46331	LOCAL AREA NETWORK SECURITY AND FIREWALLS	
Minimum Total Credit Hours:		18

## Graduation Requirements

Minimum Minor GPA	Minimum Overall GPA
2.000	2.000

- Minimum 6 credit hours in the minor must be upper-division coursework (30000 and 40000 level).
- Minimum 6 credit hours in the minor must be outside of the course requirements for any major or other minor the student is pursuing.
- Minimum 50 percent of the total credit hours for the minor must be taken at Kent State (in residence).

## Computer-Aided Drafting/Design Technician - Undergraduate Certificate

### College of Applied and Technical Studies

cats@kent.edu

www.kent.edu/cats

## Description

The Computer-Aided Drafting/Design Technician undergraduate certificate allows students to quickly develop skills and hands-on experiences in drafting and Computer-Aided Drafting (CAD) operation and the ability to pursue objectives in the face of limited resources. Graduates are prepared for positions as a drafter or CAD operator.

This certificate articulates well into an associate or bachelor's degree program in such technical areas as mechanical engineering technology, computer engineering technology and electrical engineering technology.

### Fully Offered At:

- Ashtabula Campus

## Admission Requirements

The university affirmatively strives to provide educational opportunities and access to students with varied backgrounds, those with special talents and adult students who graduated from high school three or more years ago.

Kent State campuses at Ashtabula, East Liverpool, Geauga, Salem, Stark, Trumbull and Tuscarawas, and the Twinsburg Academic Center, have open enrollment admission for students who hold a high school diploma, GED or equivalent.

For more information on admissions, contact the Regional Campuses admissions offices.

## Program Requirements

### Certificate Requirements

[C103]

Code	Title	Credit Hours
<b>Certificate Requirements</b>		
EERT 12005	ELECTRICAL/ELECTRONIC DRAWING	2
ENGT 12005	APPLICATIONS IN COMPUTER-AIDED DESIGN	2
ENGT 22006	ECONOMIC DECISION ANALYSIS	3
IT 11000	INTRODUCTION TO OFFICE PRODUCTIVITY APPS	3
MERT 12000	ENGINEERING DRAWING	3

MERT 12001	COMPUTER-AIDED DESIGN	3
MERT 22003	COMPUTER-AIDED TOOL DESIGN	3
Minimum Total Credit Hours:		19

## Graduation Requirements

Minimum Certificate GPA	Minimum Overall GPA
2.000	2.000

# Criminology and Justice Studies - A.A.S.

## College of Applied and Technical Studies

cats@kent.edu  
www.kent.edu/cats

## Description

The Associate of Applied Science degree in Criminology and Justice Studies prepares graduates for para-professional positions in the field of criminal justice studies. The program can serve as a foundation for advanced study in several areas, including retail security, industrial security, forensics, law and corrections. Graduates typically seek employment in probation offices, social service agencies, courts, local law enforcement offices and crime labs.

The Criminology and Justice Studies major includes the following optional concentration:

- The **Peace Officers Training Academy** concentration is open only to students admitted to the Kent State Basic Police Academy. The coursework covers the basics of defensive tactics, firearms, driving, traffic, patrol, civil disorders and first aid. In addition, students learn investigative methods and the fundamentals of policing, the criminal justice system, constitutional law and homeland security.

Students may declare the Criminology and Justice Studies major without a concentration. That course of study is ideal for students interested in the structure, functions and issues within the criminal justice system, as well as those who want a pathway to complete Kent State's B.A. degree in Criminology and Justice Studies.

## Fully Offered At:

- Online (Peace Officers Training Academy concentration not offered)
- Hybrid (online/on-ground)
- Ashtabula
- East Liverpool
- Geauga
- Salem
- Stark
- Trumbull (Peace Officers Training Academy concentration)
- Tuscarawas
- Twinsburg Academic Center

## Admission Requirements

The university affirmatively strives to provide educational opportunities and access to students with varied backgrounds, those with special

talents and adult students who graduated from high school three or more years ago.

Kent State campuses at Ashtabula, East Liverpool, Geauga, Salem, Stark, Trumbull and Tuscarawas, and the Twinsburg Academic Center, have open enrollment admission for students who hold a high school diploma, GED or equivalent.

For more information on admissions, contact the Regional Campuses admissions offices.

**Peace Officers Training Academy Concentration:** Admission to this program is selective. Applicants must meet all admission criteria for acceptance into the Kent State Basic Police Academy. Criteria includes a valid driver's license, high school diploma or GED, be age 20 or turning age 20 at time of enrollment, good physical condition and no felony or drug convictions or arrests for domestic violence.

## Program Learning Outcomes

Graduates of this program will be able to:

1. Explain the structure and function of the criminal justice system, namely police, courts and corrections
2. Explain criminal law and how it intersects with and impacts society
3. Explain and compare the theories on crime, criminality and criminal justice practices
4. Communicate the experiences of marginalized populations within the criminal justice system

In addition, graduates of the Peace Officers Training Academy concentration will be able to:

1. Identify the components and legal processes of the criminal justice system, and apply basic criminal laws to various situations
2. Explain the different types of police procedures and their effective uses in law enforcement
3. Use ethical, analytical and critical-thinking skills toward situations typical to criminal justice settings
4. Safely and properly conduct a traffic stop and respond to a domestic disturbance, dispatched call or crime in progress
5. Properly carry out comprehensive criminal investigations and write various reports
6. Proficiently provide first aid at the level of a first responder

## University Requirements

All students in an applied or technical associate degree program at Kent State University must complete the following university requirements for graduation.

**NOTE:** University requirements may be fulfilled in this program by specific course requirements, please see Program Requirements for details.

Code	Title	Credit Hours
	Destination Kent State: First Year Experience	1
	Course is not required for students with 25 transfer credits, excluding College Credit Plus, or age 21+ at time of admission.	
	Kent Core (see table below)	15
	Total Credit Hour Requirement	60

Some associate degrees require students to complete more than 60 credit hours.

## Kent Core Requirements

Kent Core Composition (KCOMP)	3
Kent Core Mathematics and Critical Reasoning (KMCR)	3
Kent Core Humanities and Fine Arts (KHUM/KFA)	3
Kent Core Social Sciences (KSS)	3
Kent Core Basic Sciences (KBS/KLAB)	3
<b>Total Credit Hours:</b>	<b>15</b>

## Program Requirements

### Major Requirements

Code	Title	Credit Hours
<b>Major Requirements (courses count in major GPA)</b>		
CRIM 12000	INTRODUCTION TO JUSTICE STUDIES	3
CRIM 22300	POLICE ROLE	3
CRIM 26704	ISSUES IN LAW AND SOCIETY (KSS)	3
CRIM 33200	CRIMINAL LAW	3
SOC 12050	INTRODUCTION TO SOCIOLOGY (DIVD) (KSS)	3
<b>Additional Requirements (courses do not count in major GPA)</b>		
UC 10097	DESTINATION KENT STATE: FIRST YEAR EXPERIENCE	1
Kent Core Composition		3
Kent Core Mathematics and Critical Reasoning		3
Kent Core Humanities and Fine Arts		3
Kent Core Basic Sciences		3
General Electives (total credit hours depends on earning 60 credit hours)		10
<b>Additional Requirements or Concentration</b>		
Choose from the following:		22
Additional Requirements for Students Not Declaring a Concentration		
Peace Officers Training Academy Concentration		
Minimum Total Credit Hours:		60

### Additional Requirements for Students Not Declaring a Concentration

Code	Title	Credit Hours
<b>Major Requirements (courses count in major GPA)</b>		
CRIM 26701	CORRECTIONS	3
CRIM 36702	CRIMINOLOGY	3
CRIM 37311	MINORITIES IN CRIME AND JUSTICE (DIVD)	3
or CRIM 37411	WOMEN IN CRIME AND JUSTICE (DIVD)	
Criminology and Justice Studies (CRIM) Electives		9
<b>Additional Requirements (courses do not count in major GPA)</b>		
General Electives		4
Minimum Total Credit Hours:		22

### Peace Officers Training Academy Concentration Requirements

Code	Title	Credit Hours
<b>Concentration Requirements (courses count in major GPA)</b>		
POTA 11001	PEACE OFFICERS ACADEMY I	6
POTA 11002	PEACE OFFICERS ACADEMY II	5
POTA 11003	PEACE OFFICERS ACADEMY III	6

POTA 11004	PEACE OFFICERS ACADEMY IV	5
Minimum Total Credit Hours:		22

## Graduation Requirements

Minimum Major GPA	Minimum Overall GPA
2.000	2.000

## Roadmap

This roadmap is a recommended semester-by-semester plan of study for this major. However, courses designated as critical (!) must be completed in the semester listed to ensure a timely graduation.

Semester One		Credits
CRIM 12000	INTRODUCTION TO JUSTICE STUDIES	3
CRIM 26704	ISSUES IN LAW AND SOCIETY (KSS)	3
UC 10097	DESTINATION KENT STATE: FIRST YEAR EXPERIENCE	1
Kent Core Requirement		3
Kent Core Requirement		3
General Elective		3
Credit Hours		16
Semester Two		Credits
CRIM 22300	POLICE ROLE	3
SOC 12050	INTRODUCTION TO SOCIOLOGY (DIVD) (KSS)	3
Kent Core Requirement		3
Kent Core Requirement		3
General Elective		3
Credit Hours		15
Semester Three		Credits
CRIM 33200	CRIMINAL LAW	3
Additional or Concentration Requirements		11-12
Credit Hours		14
Semester Four		Credits
Additional or Concentration Requirements		11-12
General Elective		3-4
Credit Hours		15
Minimum Total Credit Hours:		60

## Early Childhood Education Technology - A.A.S.

### College of Applied and Technical Studies

cats@kent.edu  
www.kent.edu/cats

## Description

The Associate of Applied Science degree in Early Childhood Education Technology prepares students with the knowledge and skills needed to implement developmentally appropriate practices as they relate to each child's development. Students who wish to pursue this degree program must possess a commitment to valuing all children, regardless of ability or background. In addition, they must have the ability to work with the child's home and community.

Graduates of the degree program are eligible to apply for pre-kindergarten licensure through the State of Ohio. Graduates will be qualified for job

positions as, teacher assistants, child caregivers and family child-care providers in a variety of settings, including child-care centers, early intervention programs, hospitals, Head Start programs, home-based early childhood programs, private schools and public preschool and special needs programs.

The degree program articulates to the Bachelor of Science in Education degree in Early Childhood Education, from which graduates are eligible to apply for Ohio licensure to teach children in preschool to grade five. Completion of the associate degree does not guarantee admission to the bachelor's degree. Admission to the B.S.E. degree is selective.

### Fully Offered at:

- Salem Campus
- Tuscarawas Campus

## Admission Requirements

The university affirmatively strives to provide educational opportunities and access to students with varied backgrounds, those with special talents and adult students who graduated from high school three or more years ago.

Kent State campuses at Ashtabula, East Liverpool, Geauga, Salem, Stark, Trumbull and Tuscarawas, and the Twinsburg Academic Center, have open enrollment admission for students who hold a high school diploma, GED or equivalent.

For more information on admissions, contact the Regional Campuses admissions offices.

## Program Learning Outcomes

Graduates of this program will be able to:

1. Demonstrate skills in self-assessment, reflection and self-advocacy; mastery and application of foundational concepts from general education; written and verbal communication skills
2. Make connections between prior knowledge/experience and new learning
3. Identify and use professional resources
4. Integrate reflective and critical self-assessment with one's own practice in early education
5. Develop an awareness of and engage in informed advocacy for children and families
6. Value family and community characteristics in order to enhance curriculum and family partnerships
7. Support self-advocacy of the families in their communities through respectful, reciprocal relationships
8. Identify young children's typical and atypical developmental characteristics and needs
9. Read, discuss and understand the multiple influences on child development and learning
10. Use knowledge of child development to create healthy, respectful, supportive and challenging learning environments
11. Develop positive relationships and supportive interactions with children and their families
12. Practice positive interpersonal communication with all constituencies involved in the education, development and care of young children.

13. Identify the goals, benefits and appropriate uses of various informal and formal assessment tools and approaches
14. Identify and practice responsible assessment of learning and development
15. Discuss the importance of core knowledge in the academic disciplines and how this relates to the education, development and care of young children.
16. Demonstrate professionalism by becoming knowledgeable about opportunities and resources for professional growth and development and by becoming actively involved in the profession
17. Identify and uphold confidentiality, ethical standards and other professional and regulatory guidelines
18. Engage in ongoing, collaborative relationships to enhance one's own learning and practice.
19. Use own knowledge and other resources to design, implement and evaluate meaningful, challenging curriculum to promote positive learning outcomes for all children of varying abilities

## University Requirements

All students in an applied or technical associate degree program at Kent State University must complete the following university requirements for graduation.

**NOTE:** University requirements may be fulfilled in this program by specific course requirements, please see Program Requirements for details.

Code	Title	Credit Hours
	Destination Kent State: First Year Experience	1
	Course is not required for students with 25 transfer credits, excluding College Credit Plus, or age 21+ at time of admission.	
	Kent Core (see table below)	15
	<b>Total Credit Hour Requirement</b>	<b>60</b>

Some associate degrees require students to complete more than 60 credit hours.

## Kent Core Requirements

Kent Core Composition (KCMP)	3
Kent Core Mathematics and Critical Reasoning (KMCR)	3
Kent Core Humanities and Fine Arts (KHUM/KFA)	3
Kent Core Social Sciences (KSS)	3
Kent Core Basic Sciences (KBS/KLAB)	3
<b>Total Credit Hours:</b>	<b>15</b>

## Program Requirements

### Major Requirements

Code	Title	Credit Hours
<b>Major Requirements (courses count in major GPA)</b>		
CULT 29535	EDUCATION IN A DEMOCRATIC SOCIETY (min C grade)	3
ECED 10120	INTRODUCTION TO EARLY CHILDHOOD SERVICES (min C grade)	2
ECED 30202	MATHEMATICS AND SCIENCE IN THE EARLY YEARS	3
ECED 20101	UNDERSTANDING YOUNG CHILDREN'S DEVELOPMENT	3
ECET 21005	PARTNERSHIPS IN CHILD GUIDANCE	3

ECET 21010	INFANT AND TODDLER CURRICULUM AND SERVICES (min C grade)	3
ECET 22000	PRESCHOOL CURRICULUM	3
ECET 22130	EMERGING LITERACIES	3
ECET 22140	PRESCHOOL SEMINAR FOR STUDENT TEACHING (ELR)	2
ECET 22192	PRESCHOOL STUDENT TEACHING (ELR) <sup>1</sup>	4
EPSY 29525	EDUCATIONAL PSYCHOLOGY (min C grade)	3
SPED 23000	INTRODUCTION TO EXCEPTIONALITIES (DIVD) (min C grade)	3
<b>Additional Requirements (courses do not count in major GPA)</b>		
COMM 15000	INTRODUCTION TO HUMAN COMMUNICATION (KADL)	3
MATH 14001	BASIC MATHEMATICAL CONCEPTS I (KMCR)	4
MATH 14002	BASIC MATHEMATICAL CONCEPTS II (KMCR) <sup>2</sup>	4
UC 10097	DESTINATION KENT STATE: FIRST YEAR EXPERIENCE	1
Kent Core Composition <sup>2,3</sup>		6
Kent Core Humanities or Fine Arts		3
Kent Core Social Sciences <sup>4</sup>		3
Kent Core Basic Sciences <sup>2,4</sup>		3
Minimum Total Credit Hours:		62

<sup>1</sup> Students must complete training in ALICE training, child safety training and CPR/AED before student teaching.

<sup>2</sup> A minimum C grade in these courses is not required for the A.A.S. degree in Early Childhood Education; however, a minimum C grade is required in these courses for the B.S.E. degree in Early Childhood Education.

<sup>3</sup> 3 credit hours are required for Kent Core (University Requirements). This program requires a total of 6 credit hours to earn the associate degree.

<sup>4</sup> Students continuing on into the BSE/ECED program have specific Kent core courses that are required under additional course work. Students should meet with an advisor every semester.

## Graduation Requirements

Minimum Major GPA	Minimum Overall GPA
2.000	2.000

- A minimum grade of C grade is required in most courses; view the program requirements to see specific courses.

## Roadmap

This roadmap is a recommended semester-by-semester plan of study for this major. However, courses designated as critical (!) must be completed in the semester listed to ensure a timely graduation.

Semester One		Credits
!	CULT 29535 EDUCATION IN A DEMOCRATIC SOCIETY	3
!	ECED 10120 INTRODUCTION TO EARLY CHILDHOOD SERVICES	2
	MATH 14001 BASIC MATHEMATICAL CONCEPTS I (KMCR)	4
	UC 10097 DESTINATION KENT STATE: FIRST YEAR EXPERIENCE	1
	Kent Core Requirement	3

Kent Core Requirement		3
Credit Hours		16
<b>Semester Two</b>		
COMM 15000	INTRODUCTION TO HUMAN COMMUNICATION (KADL)	3
ECED 20101	UNDERSTANDING YOUNG CHILDREN'S DEVELOPMENT	3
MATH 14002	BASIC MATHEMATICAL CONCEPTS II (KMCR)	4
EPSY 29525	EDUCATIONAL PSYCHOLOGY	3
Kent Core Requirement		3
Credit Hours		16
<b>Semester Three</b>		
ECED 30202	MATHEMATICS AND SCIENCE IN THE EARLY YEARS	3
ECET 21005	PARTNERSHIPS IN CHILD GUIDANCE	3
ECET 22000	PRESCHOOL CURRICULUM	3
ECET 22130	EMERGING LITERACIES	3
SPED 23000	INTRODUCTION TO EXCEPTIONALITIES (DIVD)	3
Credit Hours		15
<b>Semester Four</b>		
ECET 21010	INFANT AND TODDLER CURRICULUM AND SERVICES	3
!	ECET 22140 PRESCHOOL SEMINAR FOR STUDENT TEACHING (ELR)	2
!	ECET 22192 PRESCHOOL STUDENT TEACHING (ELR)	4
Kent Core Requirement		3
Kent Core Requirement		3
Credit Hours		15
Minimum Total Credit Hours:		62

## eBusiness - Undergraduate Certificate

### College of Applied and Technical Studies

cats@kent.edu

www.kent.edu/cats

## Description

The eBusiness undergraduate certificate provides hands-on and theoretical instruction to help students understand the use of Internet technologies to provide goods and/or services to customers in today's global business environment.

### Fully Offered At:

- Tuscarawas Campus

## Admission Requirements

The university affirmatively strives to provide educational opportunities and access to students with varied backgrounds, those with special talents and adult students who graduated from high school three or more years ago.

Kent State campuses at Ashtabula, East Liverpool, Geauga, Salem, Stark, Trumbull and Tuscarawas, and the Twinsburg Academic Center, have open enrollment admission for students who hold a high school diploma, GED or equivalent.



For more information on admissions, contact the Regional Campuses admissions offices.

## Program Requirements

### Certificate Requirements

Code	Title	Credit Hours
<b>Certificate Requirements</b>		
BMRT 11000	INTRODUCTION TO BUSINESS	3
BMRT 11006	BUSINESS COMPUTATIONS I	3
BMRT 21020	INTRODUCTION TO ENTREPRENEURSHIP	3
IT 11000	INTRODUCTION TO OFFICE PRODUCTIVITY APPS	3
IT 11006	INTRODUCTION TO WEB SITE TECHNOLOGY	3
IT 21007	CYBER ETHICS IN INFORMATION TECHNOLOGY	3
Minimum Total Credit Hours:		18

### Graduation Requirements

Minimum Certificate GPA	Minimum Overall GPA
2.000	2.000

## Electrical/Electronic Engineering Technology - A.A.S.

### College of Applied and Technical Studies

cats@kent.edu  
www.kent.edu/cats

### Description

The Associate of Applied Science degree in Electrical/Electronic Engineering Technology provides students with a core of engineering-related courses and a focus on digital and electronic systems, robotics, microsystems and the design/development of electrical and electronic circuits.

Electrical and electronics engineering technicians help engineers design and develop computers, communications equipment, medical monitoring devices, navigational equipment and other electrical and electronic equipment. They often work in product evaluation and testing, using measuring and diagnostic devices to adjust, test and repair equipment.

The degree program articulates with Kent State's Bachelor of Science degree in Engineering Technology.

### Fully Offered At:

- Trumbull Campus
- Tuscarawas Campus

### Accreditation

The A.A.S. degree in Electrical/Electronic Engineering Technology (Tuscarawas Campus only) is accredited by the Engineering Technology Accreditation Commission of ABET, <http://www.abet.org>.

### Admission Requirements

The university affirmatively strives to provide educational opportunities and access to students with varied backgrounds, those with special talents and adult students who graduated from high school three or more years ago.

Kent State campuses at Ashtabula, East Liverpool, Geauga, Salem, Stark, Trumbull and Tuscarawas, and the Twinsburg Academic Center, have open enrollment admission for students who hold a high school diploma, GED or equivalent.

For more information on admissions, contact the Regional Campuses admissions offices.

### Program Learning Outcomes

Graduates of this program will be able to:

1. Apply knowledge, techniques and skills of mathematics, science and modern engineering tools to solve electrical and electronic engineering technology problems that require limited application of principles but extensive practical knowledge
2. Ability to use modern engineering tools and techniques to design solutions for well-defined electrical electronic engineering technology problems and assist with the design of systems, components or processes.
3. Demonstrate effective oral, graphic and written communication in both technical and non-technical environments, and proficiently use technical reference material.
4. Conduct standard tests, measurements, and critically analyze and interpret data particularly in the electrical and electronic engineering technology field
5. Function effectively as a member of a technical team.
6. Understand and commit to address professional engineering and ethical responsibilities, including respect for diversity

### University Requirements

All students in an applied or technical associate degree program at Kent State University must complete the following university requirements for graduation.

**NOTE:** University requirements may be fulfilled in this program by specific course requirements, please see Program Requirements for details.

Code	Title	Credit Hours
	Destination Kent State: First Year Experience	1
	Course is not required for students with 25 transfer credits, excluding College Credit Plus, or age 21+ at time of admission.	
	Kent Core (see table below)	15
	Total Credit Hour Requirement	60

Some associate degrees require students to complete more than 60 credit hours.

## Kent Core Requirements

Kent Core Composition (KCOMP)	3
Kent Core Mathematics and Critical Reasoning (KMCR)	3
Kent Core Humanities and Fine Arts (KHUM/KFA)	3
Kent Core Social Sciences (KSS)	3
Kent Core Basic Sciences (KBS/KLAB)	3
<b>Total Credit Hours:</b>	<b>15</b>

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## Program Requirements

### Major Requirements

Code	Title	Credit Hours
<b>Major Requirements (courses count in major GPA)</b>		
EERT 12000	ELECTRIC CIRCUITS I	4
EERT 12001	ELECTRIC CIRCUITS II	3
EERT 12005	ELECTRICAL/ELECTRONIC DRAWING	2
EERT 12010	INTRODUCTION TO ELECTRONICS	4
EERT 21010	ENGINEERING AND PROFESSIONAL ETHICS <sup>1</sup>	3
or ENGR 31010	ENGINEERING AND PROFESSIONAL ETHICS	
EERT 22004	DIGITAL SYSTEMS	4
EERT 22006	ELECTRICAL MACHINES	3
or ENGR 43220	ELECTRICAL MACHINERY	
EERT 22011	ELECTRONIC SYSTEMS	2
EERT 22014	MICROPROCESSORS AND ROBOTICS	3
ENGT 22009	ENGINEERING TECHNOLOGY PROJECT	2
MERT 12000	ENGINEERING DRAWING	3
<b>Additional Requirements (courses do not count in major GPA)</b>		
COMM 15000	INTRODUCTION TO HUMAN COMMUNICATION (KADL)	3
ENG 20002	INTRODUCTION TO TECHNICAL WRITING	3
or OTEC 26638	BUSINESS COMMUNICATIONS	
MATH 11010	ALGEBRA FOR CALCULUS (KMCR)	3
MATH 11012	INTUITIVE CALCULUS (KMCR)	3
MATH 11022	TRIGONOMETRY (KMCR)	3
UC 10097	DESTINATION KENT STATE: FIRST YEAR EXPERIENCE	1
Physics Elective A, choose from the following:		3-5
PHY 12201	TECHNICAL PHYSICS I (KBS) (KLAB)	
PHY 13001 & PHY 13021	GENERAL COLLEGE PHYSICS I (KBS) and GENERAL COLLEGE PHYSICS LABORATORY I (KBS) (KLAB)	
Physics Elective B, choose from the following:		3-5
PHY 12202	TECHNICAL PHYSICS II (KBS) (KLAB)	
PHY 13002 & PHY 13022	GENERAL COLLEGE PHYSICS II (KBS) and GENERAL COLLEGE PHYSICS LABORATORY II (KBS) (KLAB)	
PHY 13012 & PHY 13022	COLLEGE PHYSICS II (KBS) and GENERAL COLLEGE PHYSICS LABORATORY II (KBS) (KLAB)	
Kent Core Composition		3
Kent Core Humanities and Fine Arts		3
Kent Core Social Sciences		3
Minimum Total Credit Hours:		65

<sup>1</sup> Students admitted to the program on the Tuscarawas Campus must take EERT 21010 or ENGR 31010 to fulfill ABET accreditation requirements. Students on other campuses may take a Kent Core Humanities and Fine Arts course.

### Graduation Requirements

Minimum Major GPA	Minimum Overall GPA
2.000	2.000

## Roadmap

This roadmap is a recommended semester-by-semester plan of study for this major. However, courses designated as critical (!) must be completed in the semester listed to ensure a timely graduation.

Semester One		Credits
!	EERT 12000 ELECTRIC CIRCUITS I	4
	MATH 11010 ALGEBRA FOR CALCULUS (KMCR)	3
!	MERT 12000 ENGINEERING DRAWING	3
	UC 10097 DESTINATION KENT STATE: FIRST YEAR EXPERIENCE	1
	Kent Core Requirement	3
	Kent Core Requirement	3
Credit Hours		17
Semester Two		Credits
!	EERT 12001 ELECTRIC CIRCUITS II	3
!	EERT 12010 INTRODUCTION TO ELECTRONICS	4
	EERT 22004 DIGITAL SYSTEMS	4
	ENG 20002 INTRODUCTION TO TECHNICAL WRITING or OTEK 26638 or BUSINESS COMMUNICATIONS	3
	MATH 11022 TRIGONOMETRY (KMCR)	3
Credit Hours		17
Semester Three		Credits
	COMM 15000 INTRODUCTION TO HUMAN COMMUNICATION (KADL)	3
	EERT 12005 ELECTRICAL/ELECTRONIC DRAWING	2
!	EERT 22011 ELECTRONIC SYSTEMS	2
!	EERT 22014 MICROPROCESSORS AND ROBOTICS	3
	MATH 11012 INTUITIVE CALCULUS (KMCR)	3
	Physics Elective A	3-5
Credit Hours		16
Semester Four		Credits
	EERT 21010 ENGINEERING AND PROFESSIONAL ETHICS or ENGR 31010 ENGINEERING AND PROFESSIONAL ETHICS	3
	EERT 22006 ELECTRICAL MACHINES or ENGR 43220 ELECTRICAL MACHINERY	3
	ENGT 22009 ENGINEERING TECHNOLOGY PROJECT	2
	Physic Elective B	3-5
	Kent Core Requirement	3
Credit Hours		15
Minimum Total Credit Hours:		65

## Engineering Technology - B.S.

### College of Applied and Technical Studies

cats@kent.edu

www.kent.edu/cats

## Description

The Bachelor of Science degree in Engineering Technology focuses primarily on the applied aspects of science and engineering and prepares graduates for practice in that portion of the technological spectrum

closest to product improvement, manufacturing, construction and engineering operational functions.

The Engineering Technology major comprises the following concentrations:

- The **2+2 Integrated Engineering Technology** concentration permits graduates from a variety of associate degree backgrounds to formulate a program of advanced study in upper-division technical courses, chosen with a faculty advisor, to gain additional technical depth or breadth.
- The **Computer Design, Animation and Game Design** concentration gives students the skills and academic knowledge necessary to enter the field of computer animation and the fast-growing field of game design. Drawings and illustrations are brought to life on digital video or film through the effective use of the latest software for capturing and animating hand-drawn or digitally created imagery. In addition, students experience creative possibilities as they explore artistic options and processes through experimental animation and modeling. **(This concentration might be inactivated; pending the approval of a new bachelor's degree. Students interested in this concentration should contact the College of Applied and Technical Studies.)**
- The **Electrical/Electronics** concentration allows seamless articulation with technical associate degrees for students who wish to advance their careers in the electrical/electronic engineering field. Electrical engineers and technologists design, develop, test and supervise the manufacturing of electrical equipment, such as electric motors, radar and navigation systems, communications systems, and power generation equipment. Electronics engineers design and develop electronic equipment, such as broadcast and communications systems-from portable music players to global positioning systems (GPS).
- The **Green and Alternative Energy** concentration refers to energy sources that have no undesired consequences, for example, fossil fuels or nuclear energy. Alternative energy sources are renewable and are thought to be 'free' energy sources. They all have lower carbon emissions, compared to conventional energy sources. These include biomass energy, wind energy, solar energy, geothermal energy, and hydroelectric energy sources. Combined with the use of recycling, the use of clean alternative energies such as the home use of solar power systems will help ensure man's survival into the 21st century and beyond. By 2050, one-third of the world's energy will need to come from solar, wind, and other renewable resources, according to British Petroleum and Royal Dutch Shell, two of the world's largest oil companies.
- The **Mechanical/Systems** concentration allows seamless articulation with technical associate degrees for students who wish to advance their careers in the mechanical or manufacturing field. Mechanical engineering technology is one of the broadest engineering disciplines. Mechanical engineers and technologists design, develop, build and test mechanical and thermal devices, including tools, engines and machines. Graduates of this program can expect to work mostly in engineering services, research and development, manufacturing industries, and the federal government.

### Fully Offered at:

- Kent Campus (Computer Design, Animation and Game Design concentration only)
- Tuscarawas Campus

## Admission Requirements

The university affirmatively strives to provide educational opportunities and access to students with varied backgrounds, those with special talents and adult students who graduated from high school three or more years ago.

**Freshman Students on the Kent Campus:** The freshman admission policy on the Kent Campus is selective. Admission decisions are based upon the following: cumulative grade point average, ACT and/or SAT scores, strength of high school college preparatory curriculum and grade trends. The Admissions Office at the Kent Campus may defer the admission of students who do not meet admissions criteria but who demonstrate areas of promise for successful college study. Deferred applicants may begin their college coursework at one of seven regional campuses of Kent State University. For more information on admissions, including additional requirements for some academic programs, visit the admissions website for new freshmen.

**Freshman Students on the Regional Campuses:** Kent State campuses at Ashtabula, East Liverpool, Geauga, Salem, Stark, Trumbull and Tuscarawas, as well as the Regional Academic Center in Twinsburg, have open enrollment admission for students who hold a high school diploma, GED or equivalent.

**English Language Proficiency Requirements for International Students:** All international students must provide proof of English language proficiency (unless they meet specific exceptions) by earning a minimum 525 TOEFL score (71 on the Internet-based version), minimum 75 MELAB score, minimum 6.0 IELTS score or minimum 48 PTE score, or by completing the ESL level 112 Intensive Program. For more information on international admission, visit the Office of Global Education's admission website.

**Transfer, Transitioning and Former Students:** For more information about admission criteria for transfer, transitioning and former students, please visit the admissions website.

## Program Learning Outcomes

Graduates of this program will be able to:

1. Apply knowledge of mathematics, science and engineering to a various areas of the engineering technology fields.
2. Use modern engineering tools and techniques to design and test systems, components, or processes in response to user requirements particularly in the engineering technology field.
3. Identify, analyze, and solve broadly-defined engineering technology problems.
4. Function effectively as a member or leader on a multi-functional technical team.
5. Apply written, oral, and graphical communication in both technical and non-technical environments; and an ability to identify and use appropriate technical literature.
6. Understand professional engineering and ethical responsibilities.
7. Understand contemporary issues and the impact of engineering technology solutions in a global/social context and a respect for diversity.
8. Commit to quality, timeliness and continuous improvement.

9. Understand the need for and an ability to engage in self-directed continuing professional development and lifelong learning.

## University Requirements

All students in a bachelor's degree program at Kent State University must complete the following university requirements for graduation.

**NOTE:** University requirements may be fulfilled in this program by specific course requirements. Please see Program Requirements for details.

Destination Kent State: First Year Experience	1
Course is not required for students with 25 transfer credits, excluding College Credit Plus, or age 21+ at time of admission.	
Diversity Domestic/Global (DIVD/DIVG)	2 courses
Students must successfully complete one domestic and one global course, of which one must be from the Kent Core.	
Experiential Learning Requirement (ELR)	varies
Students must successfully complete one course or approved experience.	
Kent Core (see table below)	36-37
Writing-Intensive Course (WIC)	1 course
Students must earn a minimum C grade in the course.	
Upper-Division Requirement	39 (or 42)
Students must successfully complete 39 upper-division (numbered 30000 to 49999) credit hours to graduate. Students in a B.A. and/or B.S. degree in the College of Arts and Sciences must complete 42 upper-division credit hours.	
Total Credit Hour Requirement	120
Some bachelor's degrees require students to complete more than 120 credit hours.	

## Kent Core Requirements

Kent Core Composition (KCMP)	6
Kent Core Mathematics and Critical Reasoning (KMCR)	3
Kent Core Humanities and Fine Arts (KHUM/KFA) (min one course each)	9
Kent Core Social Sciences (KSS) (must be from two disciplines)	6
Kent Core Basic Sciences (KBS/KLAB) (must include one laboratory)	6-7
Kent Core Additional (KADL)	6
<b>Total Credit Hours:</b>	<b>36-37</b>

## Program Requirements

### Major Requirements

Code	Title	Credit Hours
<b>Major Requirements (courses count in major GPA)</b>		
CS 10051	INTRODUCTION TO COMPUTER SCIENCE (KMCR)	3-4
or EERT 32003	TECHNICAL COMPUTING	
or IT 20001	C++ PROGRAMMING	
or IT 20011	JAVA PROGRAMMING	
EERT 21010	ENGINEERING AND PROFESSIONAL ETHICS	3
or ENGR 31010	ENGINEERING AND PROFESSIONAL ETHICS	
ENG 20002	INTRODUCTION TO TECHNICAL WRITING	3
or OTEC 26638	BUSINESS COMMUNICATIONS	



ENGR 31000	CULTURAL DYNAMICS TECHNOLOGY (DIVD) (WIC) <sup>1</sup>	2-3
or ENGR 33092	COOPERATIVE EDUCATION - PROFESSIONAL DEVELOPMENT (ELR) (WIC)	
ENGR 33363	MATERIALS SCIENCE AND TECHNOLOGY	3
ENGR 33700	QUALITY TECHNIQUES	3
ENGR 36620	PROJECT MANAGEMENT IN ENGINEERING AND TECHNOLOGY	3
ENGR 43080	INDUSTRIAL AND ENVIRONMENTAL SAFETY	3
TAS 47999	TECHNICAL AND APPLIED STUDIES CAPSTONE (ELR)	3

**Additional Requirements (courses do not count in major GPA)**

ECON 22060	PRINCIPLES OF MICROECONOMICS (KSS)	3
MATH 11010	ALGEBRA FOR CALCULUS (KMCR)	3
MATH 11012	INTUITIVE CALCULUS (KMCR)	3
MATH 11022	TRIGONOMETRY (KMCR)	3
OTEC 26636	PROJECT MANAGEMENT FOR ADMINISTRATIVE PROFESSIONALS	1

Physics Elective A, choose from the following: 3-5

PHY 12201	TECHNICAL PHYSICS I (KBS) (KLAB)	
PHY 13001 & PHY 13021	GENERAL COLLEGE PHYSICS I (KBS) and GENERAL COLLEGE PHYSICS LABORATORY I (KBS) (KLAB)	

Physics Elective B, choose from the following: 3-5

PHY 12202	TECHNICAL PHYSICS II (KBS) (KLAB)	
PHY 13002 & PHY 13022	GENERAL COLLEGE PHYSICS II (KBS) and GENERAL COLLEGE PHYSICS LABORATORY II (KBS) (KLAB)	
PHY 13012 & PHY 13022	COLLEGE PHYSICS II (KBS) and GENERAL COLLEGE PHYSICS LABORATORY II (KBS) (KLAB)	

UC 10097	DESTINATION KENT STATE: FIRST YEAR EXPERIENCE	1
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Kent Core Composition		6
Kent Core Humanities and Fine Arts		9
Kent Core Social Sciences		3

**Concentrations**

Choose from the following: 56

2+2 Integrated Engineering Technology		
Computer Design, Animation and Game Design		
Electrical/Electronics		
Green and Alternative Energy		
Mechanical/Systems		

Minimum Total Credit Hours: 120

<sup>1</sup> A minimum C grade must be earned to fulfill the writing-intensive requirement.

**2+2 Integrated Engineering Technology Concentration Requirements**

Code	Title	Credit Hours
<b>Concentration Requirements (courses count in major GPA)</b>		
ENGT 42003	LEAN MANUFACTURING, SIX SIGMA AND OPERATIONS TECHNOLOGY	3
Concentration Electives, choose from the following: 12		
	Animation Game Design (AGD) Upper-Division Electives (30000 or 40000 level)	

Electrical/Electronic Engineering Technology (EERT) Upper-Division Electives (30000 or 40000 level)

Green and Alternative Energy (GAE) Upper-Division Electives (30000 or 40000 level)

Mechanical Engineering Technology (MERT) Upper-Division Electives (30000 or 40000 level)

Engineering (ENGR) Upper-Division Electives (30000 or 40000 level)

Applied Electives, choose from the following:<sup>1</sup> 27

ACTT 11000	ACCOUNTING I: FINANCIAL	
BMRT 11000	INTRODUCTION TO BUSINESS	
BMRT 11009	INTRODUCTION TO MANAGEMENT TECHNOLOGY	
BMRT 21011	FUNDAMENTALS OF FINANCIAL MANAGEMENT	
BMRT 21050	FUNDAMENTALS OF MARKETING TECHNOLOGY	
IT 20011	JAVA PROGRAMMING	
IT 21010	WORKGROUP PRODUCTIVITY SOFTWARE	
IT 21092	COMPUTER PRACTICUM (ELR)	
IT 21095	SPECIAL TOPICS IN INFORMATION TECHNOLOGY	

OTEC 26638 BUSINESS COMMUNICATIONS

Animation Game Design (AGD) Electives

Electrical/Electronic Engineering Technology (EERT) Electives

Green and Alternate Energy (GAE) Electives

Mechanical Engineering Technology (MERT) Electives

Physics (PHY) Electives - approved by program director

**Additional Requirements (courses do not count in major GPA)**

General Electives 14

Minimum Total Credit Hours: 56

<sup>1</sup> Applied electives should be chosen from an approved associate degree or a declared minor or individualized specialization selected in consultation with an advisor. Students who have earned an associate degree will have 27 credits of technical coursework articulate to the bachelor's degree program and will not have to take the electives for a minor or individualized specialization.

**Computer Design, Animation and Game Design Concentration Requirements**

Code	Title	Credit Hours
<b>Concentration Requirements (courses count in major GPA)</b>		
CCI 46001	RESPONSIVE WEB DESIGN	3
or ENGR 33010	COMPUTER HARDWARE FOR ANIMATION	
or ENGR 34002	ADVANCED COMPUTER-AIDED DESIGN II	
EERT 22018	PC/NETWORK ENGINEERING AND TROUBLESHOOTING	1-3
or AGD 33095	SPECIAL TOPICS ANIMATION AND GAME DESIGN	
or ENGR 33016	PC/NETWORK ENGINEERING AND TROUBLESHOOTING	
or ENGR 33095	SPECIAL TOPICS: APPLIED SCIENCE AND TECHNOLOGY	
AGD 34000	CHARACTER ANIMATION	3
AGD 34001	ANIMATION PROJECT	3
AGD 34003	ANIMATION THEORY	3
AGD 34005	ENVIRONMENTAL GAME DESIGN	3
AGD 43000	INTERACTIVE GAME DESIGN	3
AGD 43001	ANIMATION PRODUCTION AND VISUAL EFFECTS	3
AGD 43002	GRAPHICS DESIGN TECHNOLOGY	3

**Additional Requirements (courses do not count in major GPA)**

ARTS 14001	DRAWING II	3
Kent Core Art History (ARTH)		3
Applied Electives, choose from the following: <sup>1</sup>		23
AGD 33095	SPECIAL TOPICS ANIMATION AND GAME DESIGN	
ARTS 14000	DRAWING I	
MERT 12000	ENGINEERING DRAWING	
MERT 12001	COMPUTER-AIDED DESIGN	
Animation Game Design (AGD) Elective		
Other Electives approved by program director		
Minimum Total Credit Hours:		56

<sup>1</sup> Applied courses should be chosen from an approved associate degree or a declared minor or individualized specialization selected in consultation with an advisor. Students who have earned an associate degree will have 23 credits of technical coursework articulate to the bachelor's degree program and will not have to take the electives for a minor or individualized specialization.

**Electrical/Electronics Concentration Requirements**

Code	Title	Credit Hours
<b>Concentration Requirements (courses count in major GPA)</b>		
ENGT 30000	ADVANCED MANUFACTURING	3
or ENGR 43700	COMPUTER-INTEGRATED MANUFACTURING	
ENGR 33031	PROGRAMMABLE LOGIC CONTROLLERS	3
Concentration Electives, choose from the following:		9
EERT 32005	INSTRUMENTATION	
ENGT 42003	LEAN MANUFACTURING, SIX SIGMA AND OPERATIONS TECHNOLOGY	
ENGR 31032	POWER TECHNOLOGY	
ENGR 33016	PC/NETWORK ENGINEERING AND TROUBLESHOOTING	
ENGR 33223	ELECTRONIC COMMUNICATION	
ENGR 33225	INDUSTRIAL CONTROL SYSTEMS	
ENGR 43220	ELECTRICAL MACHINERY	
GAE 42002	ENERGY MANAGEMENT SYSTEMS	
GAE 32000	FUEL CELL TECHNOLOGY	
GAE 42004	ADVANCED FUEL CELL TECHNOLOGY	
Applied Electives, choose from the following: <sup>1</sup>		27
ENGR 33095	SPECIAL TOPICS: APPLIED SCIENCE AND TECHNOLOGY	
MERT 12000	ENGINEERING DRAWING	
Electrical/Electronic and Related Technologies (EERT) Electives		
Other Electives - approved by program director		
<b>Additional Requirements (courses do not count in major GPA)</b>		
General Electives		14
Minimum Total Credit Hours:		56

<sup>1</sup> Applied courses should be chosen from an approved associate degree or a declared minor or individualized specialization selected in consultation with an advisor. Students who have earned an associate degree will have 27 credits of technical coursework articulate to the bachelor's degree program and will not have to take the electives for a minor or individualized specialization.

**Green and Alternative Energy Concentration Requirements**

Code	Title	Credit Hours
<b>Concentration Requirements (courses count in major GPA)</b>		
GAE 32000	FUEL CELL TECHNOLOGY	3
GAE 42004	ADVANCED FUEL CELL TECHNOLOGY	3
Concentration Electives, choose from the following:		9
EERT 32005	INSTRUMENTATION	
ENGT 42003	LEAN MANUFACTURING, SIX SIGMA AND OPERATIONS TECHNOLOGY	
ENGT 30000	ADVANCED MANUFACTURING	
ENGR 31032	POWER TECHNOLOGY	
GAE 42002	ENERGY MANAGEMENT SYSTEMS	
or ENGR 42100	TRAINING TOPICS IN TECHNOLOGY	
MERT 42000	THERMODYNAMICS FOR ENGINEERING TECHNOLOGY	
Applied Electives, choose from the following: <sup>1</sup>		27
Electrical/Electronic and Related Technologies (EERT) Electives		
Green and Alternate Energy (GAE) Electives		
Mechanical Engineering and Related Technologies (MERT) Electives		
Other Electives - approved by program director		
<b>Additional Requirements (courses do not count in major GPA)</b>		
General Electives		14
Minimum Total Credit Hours:		56

<sup>1</sup> Applied courses should be chosen from an approved associate degree or a declared minor or individualized specialization selected in consultation with an advisor. Students who have earned an associate degree will have 27 credits of technical coursework articulate to the bachelor's degree program and will not have to take the electives for a minor or individualized specialization.

**Mechanical/Systems Concentration Requirements**

Code	Title	Credit Hours
<b>Concentration Requirements (courses count in major GPA)</b>		
MERT 32004	MACHINE DESIGN	3
or ENGR 33870	FACILITY DESIGN AND MATERIAL HANDLING	
ENGT 30000	ADVANCED MANUFACTURING	3
or ENGR 43700	COMPUTER-INTEGRATED MANUFACTURING	
Mechanical/Systems Concentration Electives, choose from the following:		9
EERT 32005	INSTRUMENTATION	
ENGT 42003	LEAN MANUFACTURING, SIX SIGMA AND OPERATIONS TECHNOLOGY	
ENGR 31032	POWER TECHNOLOGY	
ENGR 32101	POLYMERS I	
ENGR 33016	PC/NETWORK ENGINEERING AND TROUBLESHOOTING	
ENGR 33031	PROGRAMMABLE LOGIC CONTROLLERS	
ENGR 33225	INDUSTRIAL CONTROL SYSTEMS	
ENGR 43220	ELECTRICAL MACHINERY	
GAE 32000	FUEL CELL TECHNOLOGY	
GAE 42002	ENERGY MANAGEMENT SYSTEMS	
GAE 42004	ADVANCED FUEL CELL TECHNOLOGY	
MERT 34002	ADVANCED SOLID MODELING	

MERT 42000	THERMODYNAMICS FOR ENGINEERING TECHNOLOGY	
Applied Electives, choose from the following: <sup>1</sup>		27
EERT 22014	MICROPROCESSORS AND ROBOTICS	
Mechanical Engineering and Related Technologies (MERT) Electives		
<b>Additional Requirements (courses do not count in major GPA)</b>		
General Electives		14
Minimum Total Credit Hours:		56

<sup>1</sup> Applied courses should be chosen from an approved associate degree or a declared minor or individualized specialization selected in consultation with an advisor. Students who have earned an associate degree will have 27 credits of technical coursework articulate to the bachelor's degree program and will not have to take the electives for a minor or individualized specialization.

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## Graduation Requirements

Minimum Major GPA	Minimum Overall GPA
2.000	2.000

- Students may declare more than one concentration in the Engineering Technology major, provided that there are minimum 18 credit hours of upper-division coursework in the subsequent concentration. These credit hours must be in one of the Engineering Technology disciplines of EERT, ENGR, MERT, CDAG, GAE. Students must also complete all of the other concentration requirements specific to each concentration, in addition to differentiating their major elective courses across the two concentrations. Students who declare the 2+2 Integrated Engineering Technology concentration may not elect any other concentration. Likewise, students who select any of the other Engineering Technology concentrations may not elect the 2+2 Integrated Engineering Technology concentration.
- Students electing a dual concentration must meet with an advisor to plan an individualized plan of study that meets these requirements before the dual concentration option will be approved for that student. Any changes made to the program of study also must be approved by an advisor, or the student may not be allowed to graduate with this option.

## Roadmaps

- 2+2 Integrated Engineering Technology Concentration
  - Computer Design, Animation, and Game Design Concentration
  - Electrical/Electronics Concentration
  - Green and Alternative Energy Concentration
  - Mechanical/Systems Concentration
-

## 2+2 INTEGRATED ENGINEERING TECHNOLOGY CONCENTRATION

This roadmap is a recommended semester-by-semester plan of study for this major. However, courses designated as critical (!) must be completed in the semester listed to ensure a timely graduation.

<b>Semester One</b>		<b>Credits</b>
EERT 21010	ENGINEERING AND PROFESSIONAL ETHICS	3
or	or ENGINEERING AND PROFESSIONAL ETHICS	
ENGR 31010	ETHICS	
MATH 11010	ALGEBRA FOR CALCULUS (KMCR)	3
UC 10097	DESTINATION KENT STATE: FIRST YEAR EXPERIENCE	1
Applied Electives		5
Kent Core Requirement		3
Credit Hours		15
<b>Semester Two</b>		
MATH 11022	TRIGONOMETRY (KMCR)	3
Applied Electives		10
Kent Core Requirement		3
Credit Hours		16
<b>Semester Three</b>		
MATH 11012	INTUITIVE CALCULUS (KMCR)	3
Applied Electives		6
Physics Elective A		3-5
Kent Core Requirement		3
Credit Hours		15
<b>Semester Four</b>		
ENG 20002	INTRODUCTION TO TECHNICAL WRITING	3
or	or BUSINESS COMMUNICATIONS	
Otec 26638		
Applied Electives		6
Physics Elective B		3-5
Kent Core Requirement		3
Credit Hours		15
<b>Semester Five</b>		
CS 10051	INTRODUCTION TO COMPUTER SCIENCE (KMCR)	3-4
or	or TECHNICAL COMPUTING	
EERT 32003	or C++ PROGRAMMING	
or IT 20001	or JAVA PROGRAMMING	
or IT 20011		
ENGR 33700	QUALITY TECHNIQUES	3
ENGT 42003	LEAN MANUFACTURING, SIX SIGMA AND OPERATIONS TECHNOLOGY	3
Concentration Electives		3
Kent Core Requirement		3
Credit Hours		15
<b>Semester Six</b>		
Otec 26636	PROJECT MANAGEMENT FOR ADMINISTRATIVE PROFESSIONALS	1
ENGR 33363	MATERIALS SCIENCE AND TECHNOLOGY	3
ENGR 36620	PROJECT MANAGEMENT IN ENGINEERING AND TECHNOLOGY	3
Kent Core Requirement		3
General Electives		4
Credit Hours		14
<b>Semester Seven</b>		
ECON 22060	PRINCIPLES OF MICROECONOMICS (KSS)	3
ENGR 43080	INDUSTRIAL AND ENVIRONMENTAL SAFETY	3

Concentration Elective		3
General Elective		6
Credit Hours		15
<b>Semester Eight</b>		
ENGR 31000	CULTURAL DYNAMICS TECHNOLOGY (DIVD)	2-3
or	(WIC)	
ENGR 33092	or COOPERATIVE EDUCATION - PROFESSIONAL DEVELOPMENT (ELR) (WIC)	
TAS 47999	TECHNICAL AND APPLIED STUDIES CAPSTONE (ELR)	3
Concentration Electives		6
General Elective		4
Credit Hours		15
Minimum Total Credit Hours:		120





## Electrical/Electronics Engineering Technology Concentration

This roadmap is a recommended semester-by-semester plan of study for this major. However, courses designated as critical (!) must be completed in the semester listed to ensure a timely graduation.

<b>Semester One</b>		<b>Credits</b>
MATH 11010	ALGEBRA FOR CALCULUS (KMCR)	3
UC 10097	DESTINATION KENT STATE: FIRST YEAR EXPERIENCE	1
Applied Electives		7
Kent Core Requirement		3
Credit Hours		14
<b>Semester Two</b>		
ENG 20002	INTRODUCTION TO TECHNICAL WRITING or or BUSINESS COMMUNICATIONS OTEC 26638	3
MATH 11012	INTUITIVE CALCULUS (KMCR)	3
MATH 11022	TRIGONOMETRY (KMCR)	3
Applied Electives		4
Kent Core Requirement		3
Credit Hours		16
<b>Semester Three</b>		
Physics Elective A		3-5
Applied Electives		10
Kent Core Requirement		3
Credit Hours		16
<b>Semester Four</b>		
Physics Elective B		3-5
Applied Electives		6
Kent Core Requirement		3
Credit Hours		13
<b>Semester Five</b>		
CS 10051	INTRODUCTION TO COMPUTER SCIENCE (KMCR) or or TECHNICAL COMPUTING EERT 32003 or C++ PROGRAMMING or IT 20001 or JAVA PROGRAMMING or IT 20011	3-4
ECON 22060	PRINCIPLES OF MICROECONOMICS (KSS)	3
ENGT 30000	ADVANCED MANUFACTURING or or COMPUTER-INTEGRATED ENGR 43700 MANUFACTURING	3
ENGR 33700	QUALITY TECHNIQUES	3
OTEC 26636	PROJECT MANAGEMENT FOR ADMINISTRATIVE PROFESSIONALS	1
Concentration Elective		3
Credit Hours		16
<b>Semester Six</b>		
ENGR 33363	MATERIALS SCIENCE AND TECHNOLOGY	3
ENGR 36620	PROJECT MANAGEMENT IN ENGINEERING AND TECHNOLOGY	3
Concentration Elective		3
Kent Core Requirement		3
General Elective		3
Credit Hours		15
<b>Semester Seven</b>		
EERT 21010	ENGINEERING AND PROFESSIONAL ETHICS or or ENGINEERING AND PROFESSIONAL ENGR 31010 ETHICS	3

ENGR 33031	PROGRAMMABLE LOGIC CONTROLLERS	3
Kent Core Requirement		3
General Elective		7
Credit Hours		16
<b>Semester Eight</b>		
ENGR 31000	CULTURAL DYNAMICS TECHNOLOGY (DIVD) or (WIC) ENGR 33092 or COOPERATIVE EDUCATION - PROFESSIONAL DEVELOPMENT (ELR) (WIC)	2-3
ENGR 43080	INDUSTRIAL AND ENVIRONMENTAL SAFETY	3
TAS 47999	TECHNICAL AND APPLIED STUDIES CAPSTONE (ELR)	3
Concentration Elective		3
General Elective		2-3
Credit Hours		14
Minimum Total Credit Hours:		120

## Green and Alternative Energy Concentration

This roadmap is a recommended semester-by-semester plan of study for this major. However, courses designated as critical (!) must be completed in the semester listed to ensure a timely graduation.

<b>Semester One</b>		<b>Credits</b>
MATH 11010	ALGEBRA FOR CALCULUS (KMCR)	3
UC 10097	DESTINATION KENT STATE: FIRST YEAR EXPERIENCE	1
Applied Electives		7
Kent Core Requirement		3
Credit Hours		14
<b>Semester Two</b>		
MATH 11012	INTUITIVE CALCULUS (KMCR)	3
MATH 11022	TRIGONOMETRY (KMCR)	3
Applied Electives		6
Kent Core Requirement		3
Credit Hours		15
<b>Semester Three</b>		
EERT 21010	ENGINEERING AND PROFESSIONAL ETHICS	3
or	or ENGINEERING AND PROFESSIONAL ETHICS	
ENGR 31010	ETHICS	
Physics Elective A		3-5
Applied Electives		6
Kent Core Requirement		3
Credit Hours		15
<b>Semester Four</b>		
ENG 20002	INTRODUCTION TO TECHNICAL WRITING	3
or	or BUSINESS COMMUNICATIONS	
OTEC 26638		
Physics Elective B		3-5
Applied Electives		8
Credit Hours		15
<b>Semester Five</b>		
CS 10051	INTRODUCTION TO COMPUTER SCIENCE (KMCR)	3-4
or	or TECHNICAL COMPUTING	
EERT 32003	or C++ PROGRAMMING	
or IT 20001	or JAVA PROGRAMMING	
or IT 20011		
ECON 22060	PRINCIPLES OF MICROECONOMICS (KSS)	3
ENGR 33700	QUALITY TECHNIQUES	3
! GAE 32000	FUEL CELL TECHNOLOGY	3
OTEC 26636	PROJECT MANAGEMENT FOR ADMINISTRATIVE PROFESSIONALS	1
Concentration Elective		3
Credit Hours		16
<b>Semester Six</b>		
ENGR 33363	MATERIALS SCIENCE AND TECHNOLOGY	3
ENGR 36620	PROJECT MANAGEMENT IN ENGINEERING AND TECHNOLOGY	3
Kent Core Requirement		3
General Elective		6
Credit Hours		15
<b>Semester Seven</b>		
! GAE 42004	ADVANCED FUEL CELL TECHNOLOGY	3
Concentration Elective		3
Kent Core Requirement		3

General Elective		7-8
Credit Hours		16
<b>Semester Eight</b>		
ENGR 31000	CULTURAL DYNAMICS TECHNOLOGY (DIVD)	2-3
or	(WIC)	
ENGR 33092	or COOPERATIVE EDUCATION - PROFESSIONAL DEVELOPMENT (ELR) (WIC)	
ENGR 43080	INDUSTRIAL AND ENVIRONMENTAL SAFETY	3
TAS 47999	TECHNICAL AND APPLIED STUDIES CAPSTONE (ELR)	3
Concentration Elective		3
Kent Core Elective		3
Credit Hours		14
Minimum Total Credit Hours:		120

## Mechanical/Systems Concentration

This roadmap is a recommended semester-by-semester plan of study for this major. However, courses designated as critical (!) must be completed in the semester listed to ensure a timely graduation.

Semester One		Credits
MATH 11010	ALGEBRA FOR CALCULUS (KMCR)	3
UC 10097	DESTINATION KENT STATE: FIRST YEAR EXPERIENCE	1
Applied Electives		7
Kent Core Requirement		3
Credit Hours		14
Semester Two		
MATH 11012	INTUITIVE CALCULUS (KMCR)	3
MATH 11022	TRIGONOMETRY (KMCR)	3
Applied Electives		6
Kent Core Requirement		3
Credit Hours		15
Semester Three		
ENG 20002	INTRODUCTION TO TECHNICAL WRITING or OETC 26638	3
Physics Elective A		3-5
Applied Electives		9
Credit Hours		15
Semester Four		
EERT 21010	ENGINEERING AND PROFESSIONAL ETHICS or ENGR 31010	3
Physics Elective B		3-5
Applied Electives		5
Kent Core Requirement		3
Credit Hours		15
Semester Five		
CS 10051	INTRODUCTION TO COMPUTER SCIENCE (KMCR) or EERT 32003 or IT 20001 or IT 20011	3-4
ECON 22060	PRINCIPLES OF MICROECONOMICS (KSS)	3
ENGT 30000	ADVANCED MANUFACTURING or ENGR 43700	3
OETC 26636	PROJECT MANAGEMENT FOR ADMINISTRATIVE PROFESSIONALS	1
Concentration Elective		3
Credit Hours		13
Semester Six		
ENGR 36620	PROJECT MANAGEMENT IN ENGINEERING AND TECHNOLOGY	3
ENGR 33363	MATERIALS SCIENCE AND TECHNOLOGY	3
Concentration Electives		6
Kent Core Requirement		3
Credit Hours		15
Semester Seven		
ENGR 33700	QUALITY TECHNIQUES	3
MERT 32004	MACHINE DESIGN or ENGR 33870	3

Kent Core Requirement		3
General Elective		7
Credit Hours		16
Semester Eight		
ENGR 31000	CULTURAL DYNAMICS TECHNOLOGY (DIVD) or (WIC)	2-3
ENGR 33092	or COOPERATIVE EDUCATION - PROFESSIONAL DEVELOPMENT (ELR) (WIC)	
ENGR 43080	INDUSTRIAL AND ENVIRONMENTAL SAFETY	3
! TAS 47999	TECHNICAL AND APPLIED STUDIES CAPSTONE (ELR)	3
Kent Core Requirement		3
General Elective		6
Credit Hours		17
Minimum Total Credit Hours:		120

## Enology - A.A.S.

### College of Applied and Technical Studies

cats@kent.edu  
www.kent.edu/cats

## Description

The Associate of Applied Science degree in Enology provides students with the foundational applied science knowledge, practical experience and technological skills of winemaking. The degree program emphasizes hands-on field experiences and laboratory practicum at local vineyards and wineries.

The A.A.S. degree in Enology is offered in consortium with the Viticulture and Enology Science and Technology Alliance (VESTA), a National Science Foundation-funded partnership between the Missouri State University system and colleges, universities, vineyards and wineries across the United States.

### Fully Offered At:

- Ashtabula Campus

## Admission Requirements

The university affirmatively strives to provide educational opportunities and access to students with varied backgrounds, those with special talents and adult students who graduated from high school three or more years ago.

Kent State campuses at Ashtabula, East Liverpool, Geauga, Salem, Stark, Trumbull and Tuscarawas, and the Twinsburg Academic Center, have open enrollment admission for students who hold a high school diploma, GED or equivalent.

For more information on admissions, contact the Regional Campuses admissions offices.

## Program Learning Outcomes

Graduates of this program will be able to:

- Understand winemaking principles and practices, including calculations necessary for accurate, precise and safe additions to the wine.

- Identify and safely use crush, storage, fermentation, transfer, sanitation, refrigeration and bottling equipment found in a winery.
- Perform introductory microbiology methods for winery sanitation and bottle sterilization.
- Properly handle and eliminate waste products from the winery with regard to environmental and safety regulations.
- Understand the role of both good and bad microorganisms frequently encountered in the winemaking process, including how to deal with each.
- Understand the principles of sensory evaluation used in commercial winemaking, including a beginning mastery of discerning flavors to establish tasting benchmarks.

## University Requirements

All students in an applied or technical associate degree program at Kent State University must complete the following university requirements for graduation.

**NOTE:** University requirements may be fulfilled in this program by specific course requirements, please see Program Requirements for details.

Code	Title	Credit Hours
	Destination Kent State: First Year Experience	1
	Course is not required for students with 25 transfer credits, excluding College Credit Plus, or age 21+ at time of admission.	
	Kent Core (see table below)	15
	Total Credit Hour Requirement	60
	Some associate degrees require students to complete more than 60 credit hours.	

## Kent Core Requirements

Kent Core Composition (KCMP)	3
Kent Core Mathematics and Critical Reasoning (KMCR)	3
Kent Core Humanities and Fine Arts (KHUM/KFA)	3
Kent Core Social Sciences (KSS)	3
Kent Core Basic Sciences (KBS/KLAB)	3
<b>Total Credit Hours:</b>	<b>15</b>

## Program Requirements

### Major Requirements

Code	Title	Credit Hours
<b>Major Requirements (courses count in major GPA)</b>		
ENOL 14600	INTRODUCTION TO ENOLOGY	3
ENOL 14800	WINERY SANITATION	3
ENOL 16000	WINERY EQUIPMENT OPERATION	2
ENOL 21000	INTRODUCTION TO WINE MICROORGANISMS	3
ENOL 24600	INTERMEDIATE ENOLOGY - HARVEST AND CRUSH	2
ENOL 24700	INTERMEDIATE ENOLOGY - POSTHARVEST	2
ENOL 25792	FALL WINE PRODUCTION FIELD WORK (ELR)	3
ENOL 25992	CELLAR OPERATIONS FIELD WORK (ELR)	2
ENOL 26600	SENSORY EVALUATION	3
ENOL 26800	WINE AND MUST ANALYSIS	3
VIN 10500	MOLECULAR PRINCIPLES IN GRAPE AND WINE	4

VIN 11100	INTRODUCTION TO VITICULTURE AND VINEYARD ESTABLISHMENT	3
Viticulture and Enology (VIN) or Enology (ENOL) Elective		1
<b>Additional Requirements (courses do not count in major GPA)</b>		
BMRT 21020 or BMRT 11000	INTRODUCTION TO ENTREPRENEURSHIP INTRODUCTION TO BUSINESS	3
BSCI 10002 & BSCI 10003  or BSCI 10110	LIFE ON PLANET EARTH (KBS) and LABORATORY EXPERIENCE IN BIOLOGY (KBS) (KLAB) BIOLOGICAL DIVERSITY (KBS) (KLAB)	4
UC 10097	DESTINATION KENT STATE: FIRST YEAR EXPERIENCE	1
Kent Core Composition		3
Kent Core Mathematics and Critical Reasoning		3
Kent Core Humanities and Fine Arts		3
Kent Core Social Sciences		3
General Electives (total credit hours depends on earning minimum 60 credit hours)		6
Minimum Total Credit Hours:		60

## Graduation Requirements

Minimum Major GPA	Minimum Overall GPA
2.000	2.000

## Roadmap

This roadmap is a recommended semester-by-semester plan of study for this major. However, courses designated as critical (!) must be completed in the semester listed to ensure a timely graduation.

Semester One		Credits
BSCI 10002 & BSCI 10003 or BSCI 10110	LIFE ON PLANET EARTH (KBS) and LABORATORY EXPERIENCE IN BIOLOGY (KBS) (KLAB) or BIOLOGICAL DIVERSITY (KBS) (KLAB)	4
ENOL 14600	INTRODUCTION TO ENOLOGY	3
UC 10097	DESTINATION KENT STATE: FIRST YEAR EXPERIENCE	1
VIN 10500	MOLECULAR PRINCIPLES IN GRAPE AND WINE	4
VIN 11100	INTRODUCTION TO VITICULTURE AND VINEYARD ESTABLISHMENT	3
Credit Hours		15
Semester Two		Credits
ENOL 14800	WINERY SANITATION	3
ENOL 16000	WINERY EQUIPMENT OPERATION	2
ENOL 26800	WINE AND MUST ANALYSIS	3
Kent Core Requirement		3
Kent Core Requirement		3
Credit Hours		14
Semester Three		Credits
BMRT 11000 or BMRT 21020	INTRODUCTION TO BUSINESS or INTRODUCTION TO ENTREPRENEURSHIP	3
ENOL 21000	INTRODUCTION TO WINE MICROORGANISMS	3
ENOL 24600	INTERMEDIATE ENOLOGY - HARVEST AND CRUSH	2
ENOL 25792	FALL WINE PRODUCTION FIELD WORK (ELR)	3

General Elective	3
Credit Hours	14
<b>Semester Four</b>	
ENOL 24700 INTERMEDIATE ENOLOGY - POSTHARVEST	2
ENOL 25992 CELLAR OPERATIONS FIELD WORK (ELR)	2
ENOL 26600 SENSORY EVALUATION	3
Viticulture and Enology (VIN) or Enology (ENOL) Elective	1
Kent Core Requirement	3
Kent Core Requirement	3
General Elective	3
Credit Hours	17
Minimum Total Credit Hours:	60

## Enology -Undergraduate Certificate

### College of Applied and Technical Studies

cats@kent.edu  
www.kent.edu/cats

## Description

The Associate of Applied Science degree in Enology provides students with the practical experience and the technology skills of winemaking. The degree program emphasizes hands-on field experiences and laboratory practicum at local vineyards and wineries.

### Fully Offered At:

- Ashtabula Campus

## Admission Requirements

The university affirmatively strives to provide educational opportunities and access to students with varied backgrounds, those with special talents and adult students who graduated from high school three or more years ago.

Kent State campuses at Ashtabula, East Liverpool, Geauga, Salem, Stark, Trumbull and Tuscarawas, and the Twinsburg Academic Center, have open enrollment admission for students who hold a high school diploma, GED or equivalent.

For more information on admissions, contact the Regional Campuses admissions offices.

## Program Requirements

### Certificate Requirements

Code	Title	Credit Hours
<b>Certificate Requirements</b>		
ENOL 14600	INTRODUCTION TO ENOLOGY	3
ENOL 14800	WINERY SANITATION	3
ENOL 16000	WINERY EQUIPMENT OPERATION	2
ENOL 21000	INTRODUCTION TO WINE MICROORGANISMS	3
ENOL 24600	INTERMEDIATE ENOLOGY - HARVEST AND CRUSH	2
ENOL 24700	INTERMEDIATE ENOLOGY - POSTHARVEST	2
ENOL 25792	FALL WINE PRODUCTION FIELD WORK (ELR)	3
ENOL 25992	CELLAR OPERATIONS FIELD WORK (ELR)	2

ENOL 26800	WINE AND MUST ANALYSIS	3
Minimum Total Credit Hours:		23

## Graduation Requirements

Minimum Certificate GPA	Minimum Overall GPA
2.000	2.000

## Entrepreneurship - Undergraduate Certificate

### College of Applied and Technical Studies

cats@kent.edu  
www.kent.edu/cats

## Description

The Entrepreneurship undergraduate certificate addresses the needs of individuals who manage small businesses, as well as individuals who believe they would like to start a business in the future. In addition, the program addresses the intrapreneurship (innovative risk taking) needs of individuals who are currently working for larger organizations in which management is sharing decision-making and product development with all employees.

### Fully Offered At:

- Ashtabula Campus

## Admission Requirements

The university affirmatively strives to provide educational opportunities and access to students with varied backgrounds, those with special talents and adult students who graduated from high school three or more years ago.

Kent State campuses at Ashtabula, East Liverpool, Geauga, Salem, Stark, Trumbull and Tuscarawas, and the Twinsburg Academic Center, have open enrollment admission for students who hold a high school diploma, GED or equivalent.

For more information on admissions, contact the Regional Campuses admissions offices.

## Program Requirements

### Certificate Requirements

Code	Title	Credit Hours
<b>Certificate Requirements</b>		
ACTT 11000	ACCOUNTING I: FINANCIAL	4
BMRT 11000	INTRODUCTION TO BUSINESS	3
BMRT 21000	BUSINESS LAW AND ETHICS I	3
BMRT 21020	INTRODUCTION TO ENTREPRENEURSHIP	3
BMRT 21023	FINANCING THE BUSINESS VENTURE	3
BMRT 21052	PROFESSIONAL SELLING TECHNIQUES	3
IT 11000	INTRODUCTION TO OFFICE PRODUCTIVITY APPS	3
Minimum Total Credit Hours:		22



## Graduation Requirements

Minimum Certificate GPA	Minimum Overall GPA
2.000	2.000

## Environment Management - A.T.S.

College of Applied and Technical Studies

cats@kent.edu

www.kent.edu/cats

## Description

The Associate of Technical Study degree in Environment Management is a completer program for students who have finished registered green industry apprenticeship or journeyman training programs. Graduates of the program are prepared to work as administrative and supervisory personnel in a variety of arboriculture, urban forestry and landscape management settings.

### Fully Offered At:

- Online
- Trumbull Campus

## Admission Requirements

The university affirmatively strives to provide educational opportunities and access to students with varied backgrounds, those with special talents and adult students who graduated from high school three or more years ago.

Kent State campuses at Ashtabula, East Liverpool, Geauga, Salem, Stark, Trumbull and Tuscarawas, and the Twinsburg Academic Center, have open enrollment admission for students who hold a high school diploma, GED or equivalent.

For more information on admissions, contact the Regional Campuses admissions offices.

## University Requirements

All students in an applied or technical associate degree program at Kent State University must complete the following university requirements for graduation.

**NOTE:** University requirements may be fulfilled in this program by specific course requirements, please see Program Requirements for details.

Code	Title	Credit Hours
	Destination Kent State: First Year Experience	1
	Course is not required for students with 25 transfer credits, excluding College Credit Plus, or age 21+ at time of admission.	
	Kent Core (see table below)	15
	Total Credit Hour Requirement	60
	Some associate degrees require students to complete more than 60 credit hours.	

## Kent Core Requirements

Kent Core Composition (KCMP)	3
Kent Core Mathematics and Critical Reasoning (KMCR)	3
Kent Core Humanities and Fine Arts (KHUM/KFA)	3

Kent Core Social Sciences (KSS)	3
Kent Core Basic Sciences (KBS/KLAB)	3
<b>Total Credit Hours:</b>	<b>15</b>

## Program Requirements

### Major Requirements

Code	Title	Credit Hours
<b>Prerequisite Requirements</b>		
	Certificate of Registered Apprenticeship <sup>1</sup>	27
<b>Major Requirements (courses count in major GPA)</b>		
BMRT 11009	INTRODUCTION TO MANAGEMENT TECHNOLOGY	3
ENGT 22003	SUPERVISION AND LABOR RELATIONS	5
IT 11000	INTRODUCTION TO OFFICE PRODUCTIVITY APPS	3
MATH 11010	ALGEBRA FOR CALCULUS (KMCR)	3
<b>Additional Requirements (courses do not count in major GPA)</b>		
ACTT 11000	ACCOUNTING I: FINANCIAL	4
COMM 15000	INTRODUCTION TO HUMAN COMMUNICATION (KADL)	3
or OTEC 26638	BUSINESS COMMUNICATIONS	
SOC 12050	INTRODUCTION TO SOCIOLOGY (DIVD) (KSS)	3
UC 10097	DESTINATION KENT STATE: FIRST YEAR EXPERIENCE	1
	Kent Core Composition	3
	Kent Core Humanities and Fine Arts	3
	Kent Core Basic Sciences	3
<b>Minimum Total Credit Hours:</b>		<b>61</b>

<sup>1</sup> Students must submit a copy of certificate of registered apprenticeship at the time of application; credit hours are awarded only after completion of program requirements (27 credit hours will be awarded).

## Graduation Requirements

Minimum Major GPA	Minimum Overall GPA
2.000	2.000

## Roadmap

This roadmap is a recommended semester-by-semester plan of study for this major. However, courses designated as critical (!) must be completed in the semester listed to ensure a timely graduation.

Semester One		Credits
!	BMRT 11009 INTRODUCTION TO MANAGEMENT TECHNOLOGY	3
	COMM 15000 INTRODUCTION TO HUMAN COMMUNICATION (KADL) or OTEC 26638 or BUSINESS COMMUNICATIONS	3
	IT 11000 INTRODUCTION TO OFFICE PRODUCTIVITY APPS	3
	SOC 12050 INTRODUCTION TO SOCIOLOGY (DIVD) (KSS)	3
	UC 10097 DESTINATION KENT STATE: FIRST YEAR EXPERIENCE	1
Credit Hours		13
Semester Two		
	ACTT 11000 ACCOUNTING I: FINANCIAL	4
	ENGT 22003 SUPERVISION AND LABOR RELATIONS	5
	Kent Core Requirement	3
Credit Hours		12
Semester Three		
	MATH 11010 ALGEBRA FOR CALCULUS (KMCR)	3
	Kent Core Requirement	3
	Kent Core Requirement	3
	Certificate of Registered Apprenticeship	27
Credit Hours		36
Minimum Total Credit Hours:		61

## Environmental Health and Safety - A.A.S.

### College of Applied and Technical Studies

cats@kent.edu

www.kent.edu/cats

## Description

The Associate of Applied Science degree in Environmental Health and Safety provides students with the knowledge to work in a number of career areas in business and industry.

### Fully Offered At:

- East Liverpool Campus
- Trumbull Campus

## Admission Requirements

The university affirmatively strives to provide educational opportunities and access to students with varied backgrounds, those with special talents and adult students who graduated from high school three or more years ago.

Kent State campuses at Ashtabula, East Liverpool, Geauga, Salem, Stark, Trumbull and Tuscarawas, and the Twinsburg Academic Center, have

open enrollment admission for students who hold a high school diploma, GED or equivalent.

For more information on admissions, contact the Regional Campuses admissions offices.

## Program Learning Outcomes

Graduates of this program will be able to:

1. Demonstrate knowledge required of an environmental technologist.
2. Understand core concepts in select biological and chemical sciences.
3. Master the basic skills necessary for environmental investigation and be knowledgeable in designing, collecting data and analyzing results of investigations.
4. Use oral and written expression to clearly communicate technical concepts.
5. Grow in intellectual ability, enhance problem-solving knowledge and attain higher level reasoning skills for advanced study or work in the environmental sciences.

## University Requirements

All students in an applied or technical associate degree program at Kent State University must complete the following university requirements for graduation.

**NOTE:** University requirements may be fulfilled in this program by specific course requirements, please see Program Requirements for details.

Code	Title	Credit Hours
	Destination Kent State: First Year Experience	1
	Course is not required for students with 25 transfer credits, excluding College Credit Plus, or age 21+ at time of admission.	
	Kent Core (see table below)	15
	Total Credit Hour Requirement	60
	Some associate degrees require students to complete more than 60 credit hours.	

## Kent Core Requirements

Kent Core Composition (KCMP)	3
Kent Core Mathematics and Critical Reasoning (KMCR)	3
Kent Core Humanities and Fine Arts (KHUM/KFA)	3
Kent Core Social Sciences (KSS)	3
Kent Core Basic Sciences (KBS/KLAB)	3
<b>Total Credit Hours:</b>	<b>15</b>

## Program Requirements

### Major Requirements

Code	Title	Credit Hours
<b>Major Requirements (courses count in major GPA)</b>		
EVHS 10004	TOXICOLOGY	3
EVHS 10010	INDUSTRIAL HYGIENE I	4
EVHS 20001	ENVIRONMENTAL LAW	3
EVHS 20004	ENVIRONMENTAL HEALTH AND SAFETY I	3
EVHS 20008	ENVIRONMENTAL SAFETY ADMINISTRATION	3

EVHS 20092	ENVIRONMENTAL TECHNOLOGY INTERNSHIP I (ELR)	3
PH 10001 or EVHS 10001	INTRODUCTION TO PUBLIC HEALTH <sup>1</sup> ENVIRONMENTAL TECHNOLOGY I	3
PH 30007	PREVENTION AND CONTROL OF DISEASES	3
<b>Additional Requirements (courses do not count in major GPA)</b>		
BSCI 10001 or BSCI 10110	HUMAN BIOLOGY (KBS) BIOLOGICAL DIVERSITY (KBS) (KLAB)	3
BSCI 10120	BIOLOGICAL FOUNDATIONS (KBS) (KLAB)	4
CHEM 10050 or CHEM 10055	FUNDAMENTALS OF CHEMISTRY (KBS) MOLECULES OF LIFE (KBS)	3
GEOG 17063	WORLD GEOGRAPHY (DIVG) (KSS)	3
GEOL 11040 or GEOL 11042 or GEOL 21062	HOW THE EARTH WORKS (KBS) EARTH AND LIFE THROUGH TIME (KBS) ENVIRONMENTAL EARTH SCIENCE (KBS)	3
IT 11000	INTRODUCTION TO OFFICE PRODUCTIVITY APPS	3
MATH 10041	INTRODUCTORY STATISTICS (KMCR)	4
UC 10097	DESTINATION KENT STATE: FIRST YEAR EXPERIENCE	1
Major Electives, choose from the following:		6
EVHS 21010	INDUSTRIAL HYGIENE II	
EVHS 22095	SPECIAL TOPICS IN ENVIRONMENTAL HEALTH AND SAFETY	
EVHS 30002	ENVIRONMENTAL ISSUES II	
EVHS 30020	HAZARDOUS WASTE OPERATIONS AND EMERGENCY RESPONSE	
EVHS 40006	FIRE PREVENTION AND CONTROL	
	120-Hour Firefighter State Certificate <sup>2</sup>	
	240-Hour Firefighter State Certificate <sup>2</sup>	
	Ohio Peace Officer Training Academy Certification <sup>2</sup>	
Kent Core Composition		3
Kent Core Humanities and Fine Arts		3
Minimum Total Credit Hours:		61

<sup>1</sup> Students who plan to pursue the Bachelor of Science in Public Health degree should take PH 10001.

<sup>2</sup> Credit for certification will be awarded after successful completion of all program coursework (49 credit hours).

## Graduation Requirements

Minimum Major GPA	Minimum Overall GPA
2.000	2.000

## Roadmap

This roadmap is a recommended semester-by-semester plan of study for this major. However, courses designated as critical (!) must be completed in the semester listed to ensure a timely graduation.

Semester One		Credits
BSCI 10001 or BSCI 10110	HUMAN BIOLOGY (KBS) or BIOLOGICAL DIVERSITY (KBS) (KLAB)	3
EVHS 10001 or PH 10001	ENVIRONMENTAL TECHNOLOGY I or INTRODUCTION TO PUBLIC HEALTH	3
EVHS 10004	TOXICOLOGY	3
IT 11000	INTRODUCTION TO OFFICE PRODUCTIVITY APPS	3

UC 10097	DESTINATION KENT STATE: FIRST YEAR EXPERIENCE	1
Kent Core Requirement		3
	Credit Hours	16
<b>Semester Two</b>		
EVHS 10010	INDUSTRIAL HYGIENE I	4
GEOG 17063	WORLD GEOGRAPHY (DIVG) (KSS)	3
MATH 10041	INTRODUCTORY STATISTICS (KMCR)	4
EVHS 20001	ENVIRONMENTAL LAW	3
Kent Core Requirement		3
	Credit Hours	17
<b>Semester Three</b>		
BSCI 10120	BIOLOGICAL FOUNDATIONS (KBS) (KLAB)	4
CHEM 10050 or CHEM 10055	FUNDAMENTALS OF CHEMISTRY (KBS) or MOLECULES OF LIFE (KBS)	3
GEOL 11040 or GEOL 11042 or GEOL 21062	HOW THE EARTH WORKS (KBS) or EARTH AND LIFE THROUGH TIME (KBS) or ENVIRONMENTAL EARTH SCIENCE (KBS)	3
EVHS 20004	ENVIRONMENTAL HEALTH AND SAFETY I	3
EVHS 20008	ENVIRONMENTAL SAFETY ADMINISTRATION	3
	Credit Hours	16
<b>Semester Four</b>		
EVHS 20092	ENVIRONMENTAL TECHNOLOGY INTERNSHIP I (ELR)	3
PH 30007	PREVENTION AND CONTROL OF DISEASES	3
Major Electives		6
	Credit Hours	12
	Minimum Total Credit Hours:	61

## Floriculture - Undergraduate Certificate

### College of Applied and Technical Studies

cats@kent.edu

www.kent.edu/cats

## Description

The Floriculture undergraduate certificate provides entry-level skills for those interested in employment or a career in the field. The curriculum provides basic principles of design used in commercial and natural settings, commercial production, marketing and post-harvest care. The certificate articulates well into Kent State's associate and bachelor's degrees in horticulture.

### Fully Offered At:

- Geauga Campus
- Salem Campus

## Admission Requirements

The university affirmatively strives to provide educational opportunities and access to students with varied backgrounds, those with special talents and adult students who graduated from high school three or more years ago.

Kent State campuses at Ashtabula, East Liverpool, Geauga, Salem, Stark, Trumbull and Tuscarawas, and the Twinsburg Academic Center, have open enrollment admission for students who hold a high school diploma, GED or equivalent.

For more information on admissions, contact the Regional Campuses admissions offices.

## Program Requirements

### Certificate Requirements

Code	Title	Credit Hours
<b>Certificate Requirements</b>		
ART 10023	3D COMPOSITION	3
HORT 16001	INTRODUCTION TO HORTICULTURE	1
HORT 16010	FLORAL DESIGN I	3
HORT 16011	FLORAL DESIGN II	3
HORT 16020	PLANT MATERIALS I	3
HORT 16021	WHOLESALE FLORICULTURE	3
HORT 26001	OCCUPATIONAL REGULATIONS AND SAFETY	2
HORT 36092	INTERNSHIP IN HORTICULTURE (ELR)	1
Minimum Total Credit Hours:		19

### Graduation Requirements

Minimum Certificate GPA	Minimum Overall GPA
2.000	2.000

## Game Design - Minor

College of Applied and Technical Studies  
cats@kent.edu  
www.kent.edu/cats

### Description

The Game Design minor is for students who want to learn and enhance their ability to create 2D and 3D games and who want to focus on the modeling and game environment design perspective. Students will create 2D and 3D games by learning the essentials of modeling, texturing, lighting, sculpting environments and communicating ideas with other designers.

#### Fully Offered At:

- Kent Campus
- Stark Campus
- Tuscarawas Campus

### Admission Requirements

Admission to a minor is open to students declared in a bachelor's degree, the A.A.B. or A.A.S. degree or the A.T.S. degree (not Individualized Program major). Students declared only in the A.A. or A.S. degree or the A.T.S. degree in Individualized Program may not declare a minor. Students may not pursue a minor and a major in the same discipline.

## Program Requirements

### Minor Requirements

Code	Title	Credit Hours
<b>Minor Requirements</b>		
AGD 12000	TWO DIMENSION GRAPHICS	3
AGD 12001	MODELING AND TEXTURING I	3
AGD 22004	MODELING AND TEXTURING II	3
AGD 22005	MULTIMEDIA AND GAME DESIGN	3
AGD 22010	DIGITAL SCULPTING	3
AGD 33010	COMPETITIVE GAMING	3
or AGD 33030	GAMES FOR EDUCATION	
AGD 34005	ENVIRONMENTAL GAME DESIGN	3
Minimum Total Credit Hours:		21

### Graduation Requirement

Minimum Minor GPA	Minimum Overall GPA
2.000	2.000

- Minimum 6 credit hours in the minor must be upper-division coursework (30000 and 40000 level).
- Minimum 6 credit hours in the minor must be outside of the course requirements for any major or other minor the student is pursuing.
- Minimum 50 percent of the total credit hours for the minor must be taken at Kent State (in residence).

## Greenhouse Production - Undergraduate Certificate

College of Applied and Technical Studies  
cats@kent.edu  
www.kent.edu/cats

### Description

The Greenhouse Production undergraduate certificate provides entry-level skills for those interested in employment or a career in the field. The curriculum provides basic principles of plant propagation in the greenhouse and nursery. The certificate articulates well into Kent State's associate and bachelor's degrees in horticulture.

#### Fully Offered At:

- Geauga Campus
- Salem Campus

### Admission Requirements

The university affirmatively strives to provide educational opportunities and access to students with varied backgrounds, those with special talents and adult students who graduated from high school three or more years ago.

Kent State campuses at Ashtabula, East Liverpool, Geauga, Salem, Stark, Trumbull and Tuscarawas, and the Twinsburg Academic Center, have open enrollment admission for students who hold a high school diploma, GED or equivalent.

For more information on admissions, contact the Regional Campuses admissions offices.

## Program Requirements

### Certificate Requirements

Code	Title	Credit Hours
<b>Certificate Requirements</b>		
BMRT 21020	INTRODUCTION TO ENTREPRENEURSHIP	3
BSCI 16001	HORTICULTURAL BOTANY	3
BSCI 26004	PLANT IDENTIFICATION AND SELECTION II	3
HORT 16001	INTRODUCTION TO HORTICULTURE	1
HORT 16022	GREENHOUSE STRATA	3
HORT 26001	OCCUPATIONAL REGULATIONS AND SAFETY	2
HORT 36014	PLANT PROPAGATION AND GREENHOUSE PRODUCTION	3
HORT 36092	INTERNSHIP IN HORTICULTURE (ELR)	1
Minimum Total Credit Hours:		19

### Graduation Requirements

Minimum Certificate GPA	Minimum Overall GPA
2.000	2.000

## Help Desk Support - Minor

College of Applied and Technical Studies  
cats@kent.edu  
www.kent.edu/cats

### Description

The Help Desk Support minor is designed to complement a wide range of majors. The curriculum includes coursework focused on computer hardware, usability design, application software, local area network troubleshooting and help desk methods and technologies. The program is flexible to tailor to each student's interests and career goals.

### Fully Offered At:

- Online
- Ashtabula Campus
- East Liverpool Campus
- Geauga Campus
- Kent Campus
- Salem Campus
- Stark Campus
- Trumbull Campus
- Tuscarawas Campus

### Admission Requirements

Admission to a minor is open to students declared in a bachelor's degree, the A.A.B. or A.A.S. degree or the A.T.S. degree (not Individualized Program major). Students declared only in the A.A. or A.S. degree or the A.T.S. degree in Individualized Program may not declare a minor. Students may not pursue a minor and a major in the same discipline.

## Minor Requirements

Code	Title	Credit Hours
<b>Minor Requirements</b>		
IT 11009	COMPUTER ASSEMBLY AND CONFIGURATION	4
IT 12000	INTERMEDIATE OFFICE PRODUCTIVITY APPS	3
IT 21100	LOCAL AREA NETWORK TROUBLESHOOTING	3
IT 36308	ERGONOMICS IN COMPUTER SYSTEMS	3
IT 36340	HELP DESK SUPPORT	3
Information Technology (IT) Upper-Division Elective (30000 or 40000 level)		3
Minimum Total Credit Hours:		19

### Graduation Requirements

Minimum Minor GPA	Minimum Overall GPA
2.000	2.000

- Minimum 6 credit hours in the minor must be upper-division coursework (30000 and 40000 level).
- Minimum 6 credit hours in the minor must be outside of the course requirements for any major or other minor the student is pursuing.
- Minimum 50 percent of the total credit hours for the minor must be taken at Kent State (in residence).

## Horticulture - B.A.H.

College of Applied and Technical Studies  
cats@kent.edu  
www.kent.edu/cats

### Description

The Bachelor of Applied Horticulture degree provides students with the academic background and learning environment to further their education beyond an associate degree. The program aids students in the development of managerial expertise in areas of landscape design, turf grass management and urban forestry, as well as landscape design, golf courses, sports turf management, arboriculture, environmental sustainability, plant propagation and greenhouse and nursery operations.

### Fully Offered At:

- Salem Campus

### Admission Requirements

The university affirmatively strives to provide educational opportunities and access to students with varied backgrounds, those with special talents and adult students who graduated from high school three or more years ago.

**Freshman Students on the Kent Campus:** The freshman admission policy on the Kent Campus is selective. Admission decisions are based upon the following: cumulative grade point average, ACT and/or SAT scores, strength of high school college preparatory curriculum and grade trends. The Admissions Office at the Kent Campus may defer the admission of students who do not meet admissions criteria but who demonstrate areas of promise for successful college study. Deferred applicants may begin their college coursework at one of seven regional campuses of Kent State University. For more information on admissions,



including additional requirements for some academic programs, visit the admissions website for new freshmen.

**Freshman Students on the Regional Campuses:** Kent State campuses at Ashtabula, East Liverpool, Geauga, Salem, Stark, Trumbull and Tuscarawas, as well as the Regional Academic Center in Twinsburg, have open enrollment admission for students who hold a high school diploma, GED or equivalent.

**English Language Proficiency Requirements for International Students:** All international students must provide proof of English language proficiency (unless they meet specific exceptions) by earning a minimum 525 TOEFL score (71 on the Internet-based version), minimum 75 MELAB score, minimum 6.0 IELTS score or minimum 48 PTE score, or by completing the ESL level 112 Intensive Program. For more information on international admission, visit the Office of Global Education's admission website.

**Transfer, Transitioning and Former Students:** For more information about admission criteria for transfer, transitioning and former students, please visit the admissions website.

## Program Learning Outcomes

Graduates of this program will be able to:

1. Demonstrate knowledge of plant characteristics, use, identification, and taxonomy.
2. Develop knowledge of the proper safety procedures and their application in the workplace.
3. Develop proper business protocol and specific horticulture concentration applications in the work place.
4. Interpret soil test results, analyze and determine the best corrective course of action.
5. Demonstrate knowledge of pest identification, taxonomy, integrated pest management, and control strategies .

## University Requirements

All students in a bachelor's degree program at Kent State University must complete the following university requirements for graduation.

**NOTE:** University requirements may be fulfilled in this program by specific course requirements. Please see Program Requirements for details.

Destination Kent State: First Year Experience	1
Course is not required for students with 25 transfer credits, excluding College Credit Plus, or age 21+ at time of admission.	
Diversity Domestic/Global (DIVD/DIVG)	2 courses
Students must successfully complete one domestic and one global course, of which one must be from the Kent Core.	
Experiential Learning Requirement (ELR)	varies
Students must successfully complete one course or approved experience.	
Kent Core (see table below)	36-37
Writing-Intensive Course (WIC)	1 course
Students must earn a minimum C grade in the course.	
Upper-Division Requirement	39 (or 42)

Students must successfully complete 39 upper-division (numbered 30000 to 49999) credit hours to graduate. Students in a B.A. and/or B.S. degree in the College of Arts and Sciences must complete 42 upper-division credit hours.

Total Credit Hour Requirement	120
Some bachelor's degrees require students to complete more than 120 credit hours.	

## Kent Core Requirements

Kent Core Composition (KCMP)	6
Kent Core Mathematics and Critical Reasoning (KMCR)	3
Kent Core Humanities and Fine Arts (KHUM/KFA) (min one course each)	9
Kent Core Social Sciences (KSS) (must be from two disciplines)	6
Kent Core Basic Sciences (KBS/KLAB) (must include one laboratory)	6-7
Kent Core Additional (KADL)	6
<b>Total Credit Hours:</b>	<b>36-37</b>

## Program Requirements

### Major Requirements

Code	Title	Credit Hours
<b>Major Requirements (courses count in major GPA)</b>		
BSCI 16001	HORTICULTURAL BOTANY	3
BSCI 26002	ECOLOGICAL PRINCIPLES OF PEST MANAGEMENT	3
BSCI 26003	PLANT IDENTIFICATION AND SELECTION I	3
BSCI 26004	PLANT IDENTIFICATION AND SELECTION II	3
GEOG 16001	SOIL AND HORTICULTURAL MANAGEMENT	3
HORT 16001	INTRODUCTION TO HORTICULTURE	1
HORT 26001	OCCUPATIONAL REGULATIONS AND SAFETY	2
HORT 26016	IRRIGATION DESIGN AND MAINTENANCE	3
HORT 26018	LANDSCAPE CONSTRUCTION	3
HORT 36014	PLANT PROPAGATION AND GREENHOUSE PRODUCTION	3
HORT 36018	LANDSCAPE CONSTRUCTION II	3
HORT 36025	PROFESSIONAL PRACTICE IN HORTICULTURE (WIC) <sup>1</sup>	3
HORT 36046	LANDSCAPE DESIGN II	3
HORT 36092	INTERNSHIP IN HORTICULTURE (ELR)	4
HORT 46014	GARDEN CENTER AND NURSERY PRODUCTION MANAGEMENT	3
Cooperative Work Experience, choose from the following:		6
HORT 26011	COOPERATIVE WORK EXPERIENCE IN TREE CARE	
HORT 26021	COOPERATIVE WORK EXPERIENCE IN LANDSCAPE MANAGEMENT	
HORT 26031	COOPERATIVE WORK EXPERIENCE IN TURF GRASS MANAGEMENT	
Technical Electives, choose from the following:		6
HORT 26010 & HORT 26012	ARBORICULTURE and URBAN FORESTRY	
HORT 26020 & HORT 26046	LANDSCAPE MANAGEMENT and LANDSCAPE DESIGN I	
HORT 26030 & HORT 26032	TURF GRASS MANAGEMENT and GOLF COURSE MANAGEMENT	
Major Electives, choose from the following:		6

GEOG 31062	FUNDAMENTALS OF METEOROLOGY	
GEOG 31080	GEOGRAPHY OF WINE	
HORT 36034	SPORTS TURF MANAGEMENT	
HORT 41096	INDIVIDUAL INVESTIGATION IN HORTICULTURE	
<b>Additional Requirements (courses do not count in major GPA)</b>		
ARTH 22007	ART HISTORY: RENAISSANCE TO MODERN ART (KFA)	3
BMRT 11000	INTRODUCTION TO BUSINESS	3
CHEM 10030	CHEMISTRY IN OUR WORLD (KBS)	3
CHEM 10031	CHEMISTRY IN OUR WORLD LABORATORY (KBS) (KLAB)	1
COMM 15000	INTRODUCTION TO HUMAN COMMUNICATION (KADL)	3
GEOG 17064	GEOGRAPHY OF THE UNITED STATES AND CANADA (DIVD) (KSS)	3
GEOG 31070	POPULATION AND THE ENVIRONMENT	3
GEOG 37010	GEOGRAPHY OF OHIO	3
GEOL 21062	ENVIRONMENTAL EARTH SCIENCE (KBS)	3
GEOL 41073	GEOLOGY OF OHIO	3
PHIL 21001	INTRODUCTION TO ETHICS (DIVG) (KHUM)	3
UC 10097	DESTINATION KENT STATE: FIRST YEAR EXPERIENCE	1
Foreign Language <sup>2</sup>		4-8
Kent Core Composition		6
Kent Core Mathematics and Critical Reasoning		3
Kent Core Humanities and Fine Arts		3
Kent Core Social Sciences (must be from two disciplines)		3
Kent Core Additional		3
General Electives (total credit hours depends on earning 120 credit hours, including 39-upper-division credit hours) <sup>3</sup>		5
Minimum Total Credit Hours:		120

<sup>1</sup> Minimum C grade is required to fulfill the writing-intensive requirement.

<sup>2</sup> Courses in one foreign language or American Sign Language in proficiency required. This requirement may be fulfilled by one of the following two conditions: (1) passing the first two semesters of any foreign language or American Sign Language, or (2) passing a foreign language course at the Elementary II level or above.

<sup>3</sup> Students are recommended to complete another internship (e.g., HORT 46092).

## Graduation Requirements

Minimum Major GPA	Minimum Overall GPA
2.000	2.000

## Roadmap

This roadmap is a recommended semester-by-semester plan of study for this major. However, courses designated as critical (!) must be completed in the semester listed to ensure a timely graduation.

Semester One		Credits
!	BSCI 16001 HORTICULTURAL BOTANY	3
	CHEM 10030 CHEMISTRY IN OUR WORLD (KBS)	3
	CHEM 10031 CHEMISTRY IN OUR WORLD LABORATORY (KBS) (KLAB)	1
!	HORT 16001 INTRODUCTION TO HORTICULTURE	1
	UC 10097 DESTINATION KENT STATE: FIRST YEAR EXPERIENCE	1
Kent Core Requirement		3
Credit Hours		12
Semester Two		
	BMRT 11000 INTRODUCTION TO BUSINESS	3
	BSCI 26003 PLANT IDENTIFICATION AND SELECTION I	3
	HORT 26018 LANDSCAPE CONSTRUCTION	3
!	Technical Elective	3
Kent Core Requirement		3
Credit Hours		15
First Summer Term		
Cooperative Work Experience		3
Credit Hours		3
Semester Three		
!	BSCI 26004 PLANT IDENTIFICATION AND SELECTION II	3
	COMM 15000 INTRODUCTION TO HUMAN COMMUNICATION (KADL)	3
!	GEOG 16001 SOIL AND HORTICULTURAL MANAGEMENT	3
!	HORT 26001 OCCUPATIONAL REGULATIONS AND SAFETY	2
	HORT 26016 IRRIGATION DESIGN AND MAINTENANCE	3
Credit Hours		14
Semester Four		
!	BSCI 26002 ECOLOGICAL PRINCIPLES OF PEST MANAGEMENT	3
	GEOG 21062 ENVIRONMENTAL EARTH SCIENCE (KBS)	3
!	Major Elective	3
!	Technical Elective	3
Kent Core Requirement		3
Credit Hours		15
Second Summer Term		
HORT 36018 LANDSCAPE CONSTRUCTION II		3
Cooperative Work Experience		3
Credit Hours		6
Semester Five		
	ARTH 22007 ART HISTORY: RENAISSANCE TO MODERN ART (KFA)	3
	GEOG 17064 GEOGRAPHY OF THE UNITED STATES AND CANADA (DIVD) (KSS)	3
	GEOG 41073 GEOLOGY OF OHIO	3
!	HORT 36025 PROFESSIONAL PRACTICE IN HORTICULTURE (WIC)	3
!	HORT 36046 LANDSCAPE DESIGN II	3
Credit Hours		15
Semester Six		
	PHIL 21001 INTRODUCTION TO ETHICS (DIVG) (KHUM)	3

Kent Core Requirement		3
Kent Core Requirement		3
Kent Core Requirement		3
General Electives		3
Credit Hours		15
Third Summer Term		
HORT 36092 INTERNSHIP IN HORTICULTURE (ELR)		4
Credit Hours		4
Semester Seven		
	GEOG 37010 GEOGRAPHY OF OHIO	3
!	HORT 36014 PLANT PROPAGATION AND GREENHOUSE PRODUCTION	3
!	Major Elective	3
Foreign Language		4
General Elective		2
Credit Hours		15
Semester Eight		
	GEOG 31070 POPULATION AND THE ENVIRONMENT	3
!	HORT 46014 GARDEN CENTER AND NURSERY PRODUCTION MANAGEMENT	3
Foreign Language		0-4
Credit Hours		6
Minimum Total Credit Hours:		120

## Horticulture Technology - A.A.S.

### College of Applied and Technical Studies

cats@kent.edu  
www.kent.edu/cats

## Description

The Associate of Applied Science degree in Horticulture Technology prepares students for careers in landscape management, turf management, urban forestry, nursery and greenhouse operations and related horticultural professions. The program emphasizes practical experience through hands-on training in outdoor labs. Students are required to complete an internship.

The degree program articulates with Kent State's Bachelor of Applied Horticulture degree.

The Horticulture Technology major comprises the following concentrations:

### PLEASE PROVIDE A BRIEF DESCRIPTION

- Landscape Design
- Turfgrass Management
- Urban Forestry

### Fully Offered At:

- Salem Campus

## Admission Requirements

The university affirmatively strives to provide educational opportunities and access to students with varied backgrounds, those with special

talents and adult students who graduated from high school three or more years ago.

Kent State campuses at Ashtabula, East Liverpool, Geauga, Salem, Stark, Trumbull and Tuscarawas, and the Twinsburg Academic Center, have open enrollment admission for students who hold a high school diploma, GED or equivalent.

For more information on admissions, contact the Regional Campuses admissions offices.

## Program Learning Outcomes

Graduates of this program will be able to:

1. Demonstrate knowledge of plant characteristics, use, identification and taxonomy.
2. Develop knowledge of the proper safety procedures and their application in the workplace.
3. Develop proper business protocol and specific horticulture concentration applications in the work place.

## University Requirements

All students in an applied or technical associate degree program at Kent State University must complete the following university requirements for graduation.

**NOTE:** University requirements may be fulfilled in this program by specific course requirements, please see Program Requirements for details.

Code	Title	Credit Hours
	Destination Kent State: First Year Experience	1
	Course is not required for students with 25 transfer credits, excluding College Credit Plus, or age 21+ at time of admission.	
	Kent Core (see table below)	15
	<b>Total Credit Hour Requirement</b>	<b>60</b>
	Some associate degrees require students to complete more than 60 credit hours.	

## Kent Core Requirements

Kent Core Composition (KCOMP)	3
Kent Core Mathematics and Critical Reasoning (KMCR)	3
Kent Core Humanities and Fine Arts (KHUM/KFA)	3
Kent Core Social Sciences (KSS)	3
Kent Core Basic Sciences (KBS/KLAB)	3
<b>Total Credit Hours:</b>	<b>15</b>

## Program Requirements

### Major Requirements

Code	Title	Credit Hours
<b>Major Requirements (courses count in major GPA)</b>		
BSCI 16001	HORTICULTURAL BOTANY	3
BSCI 26002	ECOLOGICAL PRINCIPLES OF PEST MANAGEMENT	3
BSCI 26003	PLANT IDENTIFICATION AND SELECTION I	3
BSCI 26004	PLANT IDENTIFICATION AND SELECTION II	3

GEOG 16001	SOIL AND HORTICULTURAL MANAGEMENT	3
HORT 16001	INTRODUCTION TO HORTICULTURE	1
HORT 26001	OCCUPATIONAL REGULATIONS AND SAFETY	2
Technical Elective		3
<b>Additional Requirements (courses do not count in major GPA)</b>		
CHEM 10030	CHEMISTRY IN OUR WORLD (KBS)	3
CHEM 10031	CHEMISTRY IN OUR WORLD LABORATORY (KBS) (KLAB)	1
COMM 15000	INTRODUCTION TO HUMAN COMMUNICATION (KADL)	3
GEOL 21062	ENVIRONMENTAL EARTH SCIENCE (KBS)	3
UC 10097	DESTINATION KENT STATE: FIRST YEAR EXPERIENCE	1

Kent Core Composition	3
Kent Core Mathematics and Critical Reasoning	3
Kent Core Humanities and Fine Arts	3
Kent Core Social Sciences	3
General Elective (total credit hours depends on earning minimum 60 credit hours)	1
<b>Concentrations</b>	
Choose from the following:	15
Landscape Design	
Turfgrass Management	
Urban Forestry	

Minimum Total Credit Hours: 60

## Landscape Design Concentration Requirements

Code	Title	Credit Hours
<b>Concentration Requirements (courses count in major GPA)</b>		
HORT 26016	IRRIGATION DESIGN AND MAINTENANCE	3
HORT 26018	LANDSCAPE CONSTRUCTION	3
HORT 26020	LANDSCAPE MANAGEMENT	3
HORT 26021	COOPERATIVE WORK EXPERIENCE IN LANDSCAPE MANAGEMENT	3
HORT 26046	LANDSCAPE DESIGN I	3
Minimum Total Credit Hours:		15

## Turfgrass Management Concentration Requirements

Code	Title	Credit Hours
<b>Concentration Requirements (courses count in major GPA)</b>		
BMRT 11000	INTRODUCTION TO BUSINESS	3
BMRT 21052	PROFESSIONAL SELLING TECHNIQUES	3
HORT 26030	TURF GRASS MANAGEMENT	3
HORT 26031	COOPERATIVE WORK EXPERIENCE IN TURF GRASS MANAGEMENT	3
HORT 26032	GOLF COURSE MANAGEMENT	3
Minimum Total Credit Hours:		15

## Urban Forestry Concentration Requirements

Code	Title	Credit Hours
<b>Concentration Requirements (courses count in major GPA)</b>		
BMRT 11000	INTRODUCTION TO BUSINESS	3
BMRT 21052	PROFESSIONAL SELLING TECHNIQUES	3
HORT 26010	ARBORICULTURE	3

HORT 26011	COOPERATIVE WORK EXPERIENCE IN TREE CARE	3
HORT 26012	URBAN FORESTRY	3
Minimum Total Credit Hours:		15

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## Graduation Requirements

Minimum Major GPA	Minimum Overall GPA
2.000	2.000



## Roadmaps

- Landscape Design Concentration
- Turfgrass Management Concentration
- Urban Forestry Concentration

### LANDSCAPE DESIGN CONCENTRATION

This roadmap is a recommended semester-by-semester plan of study for this major. However, courses designated as critical (!) must be completed in the semester listed to ensure a timely graduation.

<b>Semester One</b>		<b>Credits</b>
!	BSCI 16001 HORTICULTURAL BOTANY	3
!	HORT 16001 INTRODUCTION TO HORTICULTURE	1
	UC 10097 DESTINATION KENT STATE: FIRST YEAR EXPERIENCE	1
	Kent Core Requirement	3
	Kent Core Requirement	3
	Kent Core Requirement	3
	Credit Hours	14
<b>Semester Two</b>		
!	BSCI 26003 PLANT IDENTIFICATION AND SELECTION I	3
	CHEM 10030 CHEMISTRY IN OUR WORLD (KBS)	3
	CHEM 10031 CHEMISTRY IN OUR WORLD LABORATORY (KBS) (KLAB)	1
	HORT 26018 LANDSCAPE CONSTRUCTION	3
!	HORT 26020 LANDSCAPE MANAGEMENT	3
	Kent Core Requirement	3
	Credit Hours	16
<b>First Summer Term</b>		
	HORT 26021 COOPERATIVE WORK EXPERIENCE IN LANDSCAPE MANAGEMENT	3
	Credit Hours	3
<b>Semester Three</b>		
!	BSCI 26004 PLANT IDENTIFICATION AND SELECTION II	3
	COMM 15000 INTRODUCTION TO HUMAN COMMUNICATION (KADL)	3
!	GEOG 16001 SOIL AND HORTICULTURAL MANAGEMENT	3
!	HORT 26001 OCCUPATIONAL REGULATIONS AND SAFETY	2
!	HORT 26016 IRRIGATION DESIGN AND MAINTENANCE	3
	Credit Hours	14
<b>Semester Four</b>		
!	BSCI 26002 ECOLOGICAL PRINCIPLES OF PEST MANAGEMENT	3
	GEOL 21062 ENVIRONMENTAL EARTH SCIENCE (KBS)	3
!	HORT 26046 LANDSCAPE DESIGN I	3
	Technical Elective	3
	General Elective	1
	Credit Hours	13
	Minimum Total Credit Hours:	60

## Turfgrass Management Concentration

This roadmap is a recommended semester-by-semester plan of study for this major. However, courses designated as critical (!) must be completed in the semester listed to ensure a timely graduation.

<b>Semester One</b>		<b>Credits</b>
!	BSCI 16001 HORTICULTURAL BOTANY	3
!	HORT 16001 INTRODUCTION TO HORTICULTURE	1
!	HORT 26030 TURF GRASS MANAGEMENT	3
	UC 10097 DESTINATION KENT STATE: FIRST YEAR EXPERIENCE	1
	Kent Core Requirement	3
	Kent Core Requirement	3
Credit Hours		14
<b>Semester Two</b>		
!	BSCI 26003 PLANT IDENTIFICATION AND SELECTION I	3
	CHEM 10030 CHEMISTRY IN OUR WORLD (KBS)	3
	CHEM 10031 CHEMISTRY IN OUR WORLD LABORATORY (KBS) (KLAB)	1
	Kent Core Requirement	3
	Kent Core Requirement	3
Credit Hours		13
<b>First Summer Term</b>		
	HORT 26031 COOPERATIVE WORK EXPERIENCE IN TURF GRASS MANAGEMENT	3
Credit Hours		3
<b>Semester Three</b>		
	BMRT 11000 INTRODUCTION TO BUSINESS	3
!	BSCI 26004 PLANT IDENTIFICATION AND SELECTION II	3
!	GEOG 16001 SOIL AND HORTICULTURAL MANAGEMENT	3
!	HORT 26001 OCCUPATIONAL REGULATIONS AND SAFETY	2
!	HORT 26032 GOLF COURSE MANAGEMENT	3
Credit Hours		14
<b>Semester Four</b>		
	BMRT 21052 PROFESSIONAL SELLING TECHNIQUES	3
!	BSCI 26002 ECOLOGICAL PRINCIPLES OF PEST MANAGEMENT	3
	COMM 15000 INTRODUCTION TO HUMAN COMMUNICATION (KADL)	3
	GEOL 21062 ENVIRONMENTAL EARTH SCIENCE (KBS)	3
	Technical Elective	3
	General Elective	1
Credit Hours		16
Minimum Total Credit Hours:		60

## Urban Forestry Concentration

This roadmap is a recommended semester-by-semester plan of study for this major. However, courses designated as critical (!) must be completed in the semester listed to ensure a timely graduation.

Semester One			Credits
!	BSCI 16001	HORTICULTURAL BOTANY	3
!	HORT 16001	INTRODUCTION TO HORTICULTURE	1
	UC 10097	DESTINATION KENT STATE: FIRST YEAR EXPERIENCE	1
	Kent Core Requirement		3
	Kent Core Requirement		3
	Kent Core Requirement		3
	Credit Hours		14
Semester Two			
!	BSCI 26003	PLANT IDENTIFICATION AND SELECTION I	3
	CHEM 10030	CHEMISTRY IN OUR WORLD (KBS)	3
	CHEM 10031	CHEMISTRY IN OUR WORLD LABORATORY (KBS) (KLAB)	1
!	HORT 26010	ARBORICULTURE	3
	Kent Core Requirement		3
	Credit Hours		13
First Summer Term			
	HORT 26011	COOPERATIVE WORK EXPERIENCE IN TREE CARE	3
	Credit Hours		3
Semester Three			
	BMRT 11000	INTRODUCTION TO BUSINESS	3
!	BSCI 26004	PLANT IDENTIFICATION AND SELECTION II	3
	COMM 15000	INTRODUCTION TO HUMAN COMMUNICATION (KADL)	3
!	GEOG 16001	SOIL AND HORTICULTURAL MANAGEMENT	3
!	HORT 26001	OCCUPATIONAL REGULATIONS AND SAFETY	2
	Credit Hours		14
Semester Four			
	BMRT 21052	PROFESSIONAL SELLING TECHNIQUES	3
!	BSCI 26002	ECOLOGICAL PRINCIPLES OF PEST MANAGEMENT	3
	GEOG 21062	ENVIRONMENTAL EARTH SCIENCE (KBS)	3
!	HORT 26012	URBAN FORESTRY	3
	Technical Elective		3
	General Elective		1
	Credit Hours		16
	Minimum Total Credit Hours:		60

## Hospitality Management - Undergraduate Certificate

College of Applied and Technical Studies  
cats@kent.edu  
www.kent.edu/cats

### Description

The Hospitality Management undergraduate certificate provides entry level skills for those interested in employment or a career in the field. The

certificate articulates into Kent State's bachelor's degree in hospitality management.

### Fully Offered At:

- Ashtabula Campus

## Admission Requirements

The university affirmatively strives to provide educational opportunities and access to students with varied backgrounds, those with special talents and adult students who graduated from high school three or more years ago.

Kent State campuses at Ashtabula, East Liverpool, Geauga, Salem, Stark, Trumbull and Tuscarawas, and the Twinsburg Academic Center, have open enrollment admission for students who hold a high school diploma, GED or equivalent.

For more information on admissions, contact the Regional Campuses admissions offices.

## Program Requirements

### Certificate Requirements

Code	Title	Credit Hours
Certificate Requirements		
BMRT 11000	INTRODUCTION TO BUSINESS	3
BMRT 11009	INTRODUCTION TO MANAGEMENT TECHNOLOGY	3
HM 13022	SANITATION AND SAFETY PRINCIPLES AND PRACTICES	3
HM 13023	TECHNIQUES OF FOOD PRODUCTION	6
HM 13024	INTRODUCTION TO HOSPITALITY MANAGEMENT	3
IT 11000	INTRODUCTION TO OFFICE PRODUCTIVITY APPS	3
Certificate Elective, choose from the following:		3
HM 23030	HOTEL OPERATIONS	
HM 33020	LEGAL ISSUES IN THE HOSPITALITY INDUSTRY	
HM 33028	HOSPITALITY PURCHASING	
HM 41095	SPECIAL TOPICS IN HOSPITALITY MANAGEMENT	
NUTR 23511	SCIENCE OF HUMAN NUTRITION (KBS)	
RPTM 36060	ENTREPRENEURIAL APPROACHES TO LEISURE AND HOSPITALITY SERVICES	

Minimum Total Credit Hours:

24

### Graduation Requirements

Minimum Certificate GPA	Minimum Overall GPA
2.000	2.000

## Human Services - A.A.S.

College of Applied and Technical Studies  
cats@kent.edu  
www.kent.edu/cats

## Description

The Associate of Applied Science degree in Human Services is designed to prepare graduates for entry-level positions in a variety of human services agencies, and includes applied courses in human services and joint university-agency supervised internships. The core courses provide a solid foundation in case management and client advocacy. This program is endorsed by the Ohio Coalition of Associate Degree Human Service Educators as authorized by the Ohio Chemical Dependency Professionals Board and the Ohio Counselor, Social Worker and Marriage and Family Therapist Board as meeting the curricular requirements for the Social Work Assistant, Chemical Dependency Counselor Assistant I & II and Licensed Chemical Dependency Counselor.

The program is designed to articulate fully to Kent State's B.S. degree in Human Development and Family Studies, Human Services concentration. However, it is also applicable to the bachelor programs in psychology and sociology.

### Fully Offered At:

- Ashtabula Campus
- Salem Campus

## Admission Requirements

The university affirmatively strives to provide educational opportunities and access to students with varied backgrounds, those with special talents and adult students who graduated from high school three or more years ago.

Kent State campuses at Ashtabula, East Liverpool, Geauga, Salem, Stark, Trumbull and Tuscarawas, and the Twinsburg Academic Center, have open enrollment admission for students who hold a high school diploma, GED or equivalent.

For more information on admissions, contact the Regional Campuses admissions offices.

## University Requirements

All students in an applied or technical associate degree program at Kent State University must complete the following university requirements for graduation.

**NOTE:** University requirements may be fulfilled in this program by specific course requirements, please see Program Requirements for details.

Code	Title	Credit Hours
	Destination Kent State: First Year Experience	1
	Course is not required for students with 25 transfer credits, excluding College Credit Plus, or age 21+ at time of admission.	
	Kent Core (see table below)	15
	<b>Total Credit Hour Requirement</b>	<b>60</b>
	Some associate degrees require students to complete more than 60 credit hours.	

## Kent Core Requirements

Kent Core Composition (KCMP)	3
Kent Core Mathematics and Critical Reasoning (KMCR)	3
Kent Core Humanities and Fine Arts (KHUM/KFA)	3
Kent Core Social Sciences (KSS)	3
Kent Core Basic Sciences (KBS/KLAB)	3
<b>Total Credit Hours:</b>	<b>15</b>

## Program Requirements

### Major Requirements

Code	Title	Credit Hours
<b>Major Requirements (courses count in major GPA)</b>		
HDFS 24011	INTERPERSONAL RELATIONSHIPS AND FAMILIES (DIVD)	3
HSRV 11000	FOUNDATIONS OF HUMAN SERVICES	3
HSRV 11001	GROUP METHODS IN HUMAN SERVICES	3
HSRV 11002	SURVEY OF COMMUNITY RESOURCES	3
HSRV 21000	DYNAMICS OF HELPING RELATIONSHIPS	3
HSRV 21001	ASSESSMENT METHODS IN HUMAN SERVICES	3
HSRV 21002	COMMUNITY SUPPORTIVE CASE MANAGEMENT AND ADVOCACY IN HUMAN SERVICES	3
HSRV 21003	SOCIAL WELFARE IN HUMAN SERVICES	3
HSRV 21092	INTERNSHIP IN HUMAN SERVICES I (ELR) <sup>1</sup>	3
HSRV 21192	INTERNSHIP IN HUMAN SERVICES II (ELR) <sup>1</sup>	3
<b>Additional Requirements (courses do not count in major GPA)</b>		
COMM 15000	INTRODUCTION TO HUMAN COMMUNICATION (KADL)	3
ENG 20002 or ENG 21011	INTRODUCTION TO TECHNICAL WRITING <sup>2</sup> COLLEGE WRITING II (KCMP)	3
PSYC 11762	GENERAL PSYCHOLOGY (DIVD) (KSS)	3
SOC 12050	INTRODUCTION TO SOCIOLOGY (DIVD) (KSS)	3
UC 10097	DESTINATION KENT STATE: FIRST YEAR EXPERIENCE	1
	Kent Core Composition	3
	Kent Core Mathematics and Critical Reasoning	3
	Kent Core Humanities and Fine Arts	3
	Kent Core Basic Sciences	3

Technical Electives, choose from the following: <sup>3</sup>	9
IT 11000 INTRODUCTION TO OFFICE PRODUCTIVITY APPS	
Allied Health Sciences (AHS) Courses	
Applied Conflict Management (CACM) Courses	
Counselor Education and Supervision (CES) Courses	
Criminology and Justice Studies (CRIM) Courses	
Early Childhood Education (ECED) Courses	
Early Childhood Education Technology (ECET) Courses	
Educational Psychology (EPSY) Courses	
Gerontology (GERO) Courses	
Health Education (HED) Courses	
Human Development and Family Studies (HDFS) Courses	
Human Services (HSRV) Courses	
Nursing (NURS) Courses	
Office Technology (OTEC) Courses	
Psychology (PSYC) Courses	
Public Health (PH) Courses	
Sociology (SOC) Courses	
Foreign Language Courses	
Minimum Total Credit Hours:	64

<sup>1</sup> Students will be required to complete the equivalent of 315 internship hours each semester.

<sup>2</sup> It is recommended that students planning to enroll in a bachelor's degree take ENG 21011.

<sup>3</sup> The following are recommendations for completing technical electives: HED 32530 or PSYC 41364 if preparing for licensure in chemical dependency counseling; HDFS 24012, HDFS 25512 and HDFS 34031 if planning to enroll in the B.S. degree in Human Development and Family Studies; and PSYC or SOC or foreign language courses if planning to enroll in the bachelor's degree in psychology or sociology.

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## Graduation Requirements

Minimum Major GPA	Minimum Overall GPA
2.500	2.000



## Roadmap

This roadmap is a recommended semester-by-semester plan of study for this major. However, courses designated as critical (!) must be completed in the semester listed to ensure a timely graduation.

Semester One		Credits
HSRV 11000	FOUNDATIONS OF HUMAN SERVICES	3
HSRV 11001	GROUP METHODS IN HUMAN SERVICES	3
HSRV 11002	SURVEY OF COMMUNITY RESOURCES	3
PSYC 11762	GENERAL PSYCHOLOGY (DIVD) (KSS)	3
UC 10097	DESTINATION KENT STATE: FIRST YEAR EXPERIENCE	1
Kent Core Requirement		3
Credit Hours		16
Semester Two		Credits
COMM 15000	INTRODUCTION TO HUMAN COMMUNICATION (KADL)	3
ENG 20002 or ENG 21011	INTRODUCTION TO TECHNICAL WRITING or COLLEGE WRITING II (KCOMP)	3
HDFS 24011	INTERPERSONAL RELATIONSHIPS AND FAMILIES (DIVD)	3
HSRV 21003	SOCIAL WELFARE IN HUMAN SERVICES	3
SOC 12050	INTRODUCTION TO SOCIOLOGY (DIVD) (KSS)	3
Technical Elective		3
Credit Hours		18
Semester Three		Credits
HSRV 21000	DYNAMICS OF HELPING RELATIONSHIPS	3
HSRV 21001	ASSESSMENT METHODS IN HUMAN SERVICES	3
HSRV 21092	INTERNSHIP IN HUMAN SERVICES I (ELR)	3
Kent Core Requirement		3
Kent Core Requirement		3
Credit Hours		15
Semester Four		Credits
HSRV 21002	COMMUNITY SUPPORTIVE CASE MANAGEMENT AND ADVOCACY IN HUMAN SERVICES	3
HSRV 21192	INTERNSHIP IN HUMAN SERVICES II (ELR)	3
Kent Core Requirement		3
Technical Electives		6
Credit Hours		15
Minimum Total Credit Hours:		64

## Individualized Program - A.T.S

### College of Applied and Technical Studies

cats@kent.edu  
www.kent.edu/cats

## Description

The Associate of Technical Study degree, Individualized Program, is open to students who need a specially designed course of study in a technical field. The program consists of courses that suit the students' career goals. Course requirements are planned with the help of a faculty advisor and must be approved by the dean of the College of Applied and Technical Studies.

## Fully Offered At:

- Ashtabula Campus
- East Liverpool Campus
- Geauga Campus
- Salem Campus
- Trumbull Campus
- Tuscarawas Campus

## Admission Requirements

The university affirmatively strives to provide educational opportunities and access to students with varied backgrounds, those with special talents and adult students who graduated from high school three or more years ago.

Kent State campuses at Ashtabula, East Liverpool, Geauga, Salem, Stark, Trumbull and Tuscarawas, and the Twinsburg Academic Center, have open enrollment admission for students who hold a high school diploma, GED or equivalent.

For more information on admissions, contact the Regional Campuses admissions offices.

## Program Requirements

### Major Requirements

Code	Title	Credit Hours
<b>Major Requirements (courses count in major GPA)</b>		
Course Requirements Approved by Faculty Advisor and College Dean		30
<b>Additional Requirements (courses do not count in major GPA)</b>		
UC 10097	DESTINATION KENT STATE: FIRST YEAR EXPERIENCE	1
Kent Core Composition		3
Kent Core Mathematics and Critical Reasoning		3
Kent Core Humanities and Fine Arts		3
Kent Core Social Sciences		3
Kent Core Basic Sciences		3
General Electives		14
Minimum Total Credit Hours:		60

## Graduation Requirements

Minimum Major GPA	Minimum Overall GPA
2.000	2.000

- Minimum 32 credit hours must be completed after the approval of the written degree program proposal.
- The A.T.S. degree may be conferred as a concurrent degree or after receiving a prior degree. Minimum 24 credit hours of coursework must be completed after approval of the program, and the program must include a minimum of 24 credit hours of work in addition to the prior or concurrent degree.

## Information Technology - A.A.B.

### College of Applied and Technical Studies

cats@kent.edu  
www.kent.edu/cats

## Description

The Associate of Applied Business degree in Information Technology provides students with a core curriculum of programming, operating systems and networks, website development, hardware, security fundamentals, and workgroup productivity technologies.

The degree program articulates to the Bachelor of Science in Information Technology degree and the certificate in Computer Forensics and Information Security.

The Information Technology major comprises the following concentrations:

- The **Application Development Technology** concentration prepares students for various professional certifications and positions such as computer programmer/application developer using industry-standard languages and technologies.
- The **General Technology** concentration prepares students for various professional certifications and entry level positions in which the computer staff are expected to perform a wide variety of technical duties.
- The **Internet/Multimedia Technology** concentration prepares students for various professional certifications and positions in Web development, social media and digital media.
- The **Network Technology** concentration prepares students for various professional certifications and positions in tech support and networking including the design, installation, and improvement of computer networks and related hardware/software.

## Fully Offered At:

- Online
- Ashtabula Campus
- East Liverpool Campus
- Geauga Campus
- Salem Campus
- Trumbull Campus
- Tuscarawas Campus
- Twinsburg Academic Center

## Admission Requirements

The university affirmatively strives to provide educational opportunities and access to students with varied backgrounds, those with special talents and adult students who graduated from high school three or more years ago.

Kent State campuses at Ashtabula, East Liverpool, Geauga, Salem, Stark, Trumbull and Tuscarawas, and the Twinsburg Academic Center, have open enrollment admission for students who hold a high school diploma, GED or equivalent.

For more information on admissions, contact the Regional Campuses admissions offices.

## Program Learning Outcomes

Graduates of this program will be able to:

1. Demonstrate core IT competency in networking and convergence; servers, storage and virtualization; client computing and user support; digital media and immersive technology; database and information management; and programming and application development
2. Function effectively as a member of a diverse team to accomplish common goals
3. Read and interpret technical information, as well as listen effectively to, communicate orally with, and write clearly for a wide range of audiences
4. Engage in continuous learning as well as research and assess new ideas and information to provide the capabilities for lifelong learning
5. Exhibit professional, legal and ethical behavior
6. Demonstrate business awareness and workplace effectiveness

## University Requirements

All students in an applied or technical associate degree program at Kent State University must complete the following university requirements for graduation.

**NOTE:** University requirements may be fulfilled in this program by specific course requirements, please see Program Requirements for details.

Code	Title	Credit Hours
	Destination Kent State: First Year Experience	1
	Course is not required for students with 25 transfer credits, excluding College Credit Plus, or age 21+ at time of admission.	
	Kent Core (see table below)	15
	Total Credit Hour Requirement	60
	Some associate degrees require students to complete more than 60 credit hours.	

## Kent Core Requirements

Kent Core Composition (KCMP)	3
Kent Core Mathematics and Critical Reasoning (KMCR)	3
Kent Core Humanities and Fine Arts (KHUM/KFA)	3
Kent Core Social Sciences (KSS)	3
Kent Core Basic Sciences (KBS/KLAB)	3
<b>Total Credit Hours:</b>	<b>15</b>

## Program Requirements

### Major Requirements

Code	Title	Credit Hours
<b>Major Requirements (courses count in major GPA)</b>		
IT 11002 or IT 13000	VISUAL BASIC PROGRAMMING APPLIED SECURITY ESSENTIALS	3
IT 11004	SURVEY OF INFORMATION TECHNOLOGY	3
IT 11005	INTRODUCTION TO OPERATING SYSTEMS AND NETWORKING TECHNOLOGY	3
IT 11006	INTRODUCTION TO WEB SITE TECHNOLOGY	3
IT 11009	COMPUTER ASSEMBLY AND CONFIGURATION	4
IT 21002	NETWORK SETUP AND CONFIGURATION	4
IT 21009	SEMINAR IN COMPUTER TECHNOLOGY	3
IT 21010	WORKGROUP PRODUCTIVITY SOFTWARE	3
<b>Additional Requirements (courses do not count in major GPA)</b>		

ENG 20002	INTRODUCTION TO TECHNICAL WRITING	3
or OTEC 26638	BUSINESS COMMUNICATIONS	
IT 11000	INTRODUCTION TO OFFICE PRODUCTIVITY APPS	3
or IT 21007	CYBER ETHICS IN INFORMATION TECHNOLOGY	
IT 12000	INTERMEDIATE OFFICE PRODUCTIVITY APPS	3
UC 10097	DESTINATION KENT STATE: FIRST YEAR EXPERIENCE	1
Business Elective, choose from the following:		3-4
ACTT 11000	ACCOUNTING I: FINANCIAL	
BMRT 11000	INTRODUCTION TO BUSINESS	
BMRT 11009	INTRODUCTION TO MANAGEMENT TECHNOLOGY	
OTEC 16625	BUSINESS PRESENTATIONS	
OTEC 26635	ADMINISTRATIVE RESOURCE MANAGEMENT	
OTEC 26640	CURRENT TECHNOLOGIES	
Kent Core Composition		3
Kent Core Mathematics and Critical Reasoning		3
Kent Core Humanities and Fine Arts		3
Kent Core Social Sciences		3
Kent Core Basic Sciences		3
<b>Concentrations</b>		
Choose from the following:		9-10
Application Development Technology		
General Technology		
Internet/Multimedia Technology		
Network Technology		
Minimum Total Credit Hours:		63-64

### Application Development Technology Concentration Requirements

Code	Title	Credit Hours
<b>Concentration Requirements (courses count in major GPA)</b>		
IT 21005	VISUAL BASIC DATABASE PROGRAMMING	4
Concentration Electives, choose from the following:		6
IT 20001	C++ PROGRAMMING	
IT 20011	JAVA PROGRAMMING	
IT 20021	C# PROGRAMMING	
IT 21036	WEB SCRIPTING I	
Minimum Total Credit Hours:		10

### General Technology Concentration Requirements

Code	Title	Credit Hours
<b>Concentration Requirements (courses count in major GPA)</b>		
Information Technology (IT) Electives		9
Minimum Total Credit Hours:		9

### Internet/Multimedia Technology Concentration Requirements

Code	Title	Credit Hours
<b>Concentration Requirements (courses count in major GPA)</b>		
IT 21007	CYBER ETHICS IN INFORMATION TECHNOLOGY	3
or IT 21036	WEB SCRIPTING I	

IT 21011	TECHNIQUES OF MULTIMEDIA WEB DESIGN	3
Information Technology (IT) Elective		3
Minimum Total Credit Hours:		9

### Network Technology Concentration Requirements

Code	Title	Credit Hours
<b>Concentration Requirements (courses count in major GPA)</b>		
Information Technology (IT) Elective		3
Concentration Electives, choose from the following:		6
IT 21100	LOCAL AREA NETWORK TROUBLESHOOTING	
IT 21110	INTRODUCTION TO ROUTING AND SWITCHING	
IT 21200	ETHICAL HACKING	
Minimum Total Credit Hours:		9

### Graduation Requirements

Minimum Major GPA	Minimum Overall GPA
2.000	2.000

### Roadmap

This roadmap is a recommended semester-by-semester plan of study for this major. However, courses designated as critical (!) must be completed in the semester listed to ensure a timely graduation.

Semester One		Credits
IT 11000	INTRODUCTION TO OFFICE PRODUCTIVITY APPS	3
or IT 21007	or CYBER ETHICS IN INFORMATION TECHNOLOGY	
IT 11002	VISUAL BASIC PROGRAMMING	3
or IT 13000	or APPLIED SECURITY ESSENTIALS	
! IT 11004	SURVEY OF INFORMATION TECHNOLOGY	3
! IT 11005	INTRODUCTION TO OPERATING SYSTEMS AND NETWORKING TECHNOLOGY	3
UC 10097	DESTINATION KENT STATE: FIRST YEAR EXPERIENCE	1
Kent Core Requirement		3
Credit Hours		16
Semester Two		Credits
ENG 20002	INTRODUCTION TO TECHNICAL WRITING	3
or OTEC 26638	or BUSINESS COMMUNICATIONS	
! IT 11006	INTRODUCTION TO WEB SITE TECHNOLOGY	3
! IT 11009	COMPUTER ASSEMBLY AND CONFIGURATION	4
! IT 12000	INTERMEDIATE OFFICE PRODUCTIVITY APPS	3
Kent Core Requirement		3
Credit Hours		16
Semester Three		Credits
! IT 21002	NETWORK SETUP AND CONFIGURATION	4
! IT 21010	WORKGROUP PRODUCTIVITY SOFTWARE	3
Business Elective		3-4
Concentration Requirement or Elective		3-4
Kent Core Requirement		3
Credit Hours		16-17
Semester Four		Credits
! IT 21009	SEMINAR IN COMPUTER TECHNOLOGY	3
Concentration Electives		6
Kent Core Requirement		3

Kent Core Requirement	3
Credit Hours	15
Minimum Total Credit Hours:	63-64

## Information Technology - B.S.I.T.

### College of Applied and Technical Studies

cats@kent.edu

www.kent.edu/cats

## Description

The Bachelor of Science in Information Technology degree in Information Technology provides students with an applied approach that focuses on supporting end users in a variety of workplace settings by utilizing a range of computing technologies. The degree program gives students the tools to support computing and network infrastructures and the needs of individuals and organizations, write programs necessary to help them render their tasks more efficiently on their desktop or mobile devices, utilize databases and write the web-based interfaces to pull the data, and code and deploy applications across the cloud.

Graduates are qualified to work in a wide range of computer and network infrastructures in small to large sized enterprises in such positions as: web or software developer; hardware, network, cloud, virtualization technician or engineer; IT support specialist or consultant; help desk, network, or IT project manager; security or forensic analyst; and systems, network or database administrator in all sectors of business, education, manufacturing, healthcare, non-profit, and government.

The Information Technology major comprises the following concentrations:

- The **Application Development** concentration provides students with the ability to program in languages typically utilized in contemporary business environments. Students will code in applications such as Visual Basic, C++, Java, C# and other industry-standard applications to develop programs employing event-driven and object-oriented techniques.
- The **Cybersecurity and Forensics** concentration places an emphasis on security of computer and network systems, including forensic work to prevent and/or determine and correct security issues utilizing cybersecurity devices, procedures, tools, and solutions.
- The **Database Design and Administration** concentration focuses on skills needed to become a database manager. Topics include relational database design; working with database servers, users, and permissions; SQL statements used for queries and reports; and incorporating databases into programming used in web-based and desktop forms.
- The **Health Information Technology** concentration provides students with the tools to install, manage, troubleshoot and secure hardware and software systems in healthcare environments. The course of study includes health IT privacy, security, EHR Implementation and support, mobile device management, technology and application life-cycle management, organizational behavior, medical business operations and regulatory requirements.
- The **Integrated Information Technology** concentration is ideal for students who want a flexible course of study for positions that require IT staff to perform a wide range of technical duties.

- The **Internet/Multimedia** concentration focuses on scripting, server-side form handling, web database integration, and interactive and dynamic multimedia Internet development.
- The **Networking** concentration focuses on configuring and maintaining network information systems and components in various network operating system and cloud computing environments that are prevalent in today's businesses. The emphasis is on network administration (i.e. managing Active Directory and network services), servers, workstations, virtualization, security, troubleshooting, installation, and maintenance.

## Fully Offered At:

- Online
- Ashtabula Campus
- East Liverpool Campus
- Geauga Campus
- Salem Campus
- Stark Campus
- Trumbull Campus
- Tuscarawas Campus
- Twinsburg Academic Center

## Admission Requirements

The university affirmatively strives to provide educational opportunities and access to students with varied backgrounds, those with special talents and adult students who graduated from high school three or more years ago.

**Freshman Students on the Kent Campus:** The freshman admission policy on the Kent Campus is selective. Admission decisions are based upon the following: cumulative grade point average, ACT and/or SAT scores, strength of high school college preparatory curriculum and grade trends. The Admissions Office at the Kent Campus may defer the admission of students who do not meet admissions criteria but who demonstrate areas of promise for successful college study. Deferred applicants may begin their college coursework at one of seven regional campuses of Kent State University. For more information on admissions, including additional requirements for some academic programs, visit the admissions website for new freshmen.

**Freshman Students on the Regional Campuses:** Kent State campuses at Ashtabula, East Liverpool, Geauga, Salem, Stark, Trumbull and Tuscarawas, as well as the Regional Academic Center in Twinsburg, have open enrollment admission for students who hold a high school diploma, GED or equivalent.

**English Language Proficiency Requirements for International Students:** All international students must provide proof of English language proficiency (unless they meet specific exceptions) by earning a minimum 525 TOEFL score (71 on the Internet-based version), minimum 75 MELAB score, minimum 6.0 IELTS score or minimum 48 PTE score, or by completing the ESL level 112 Intensive Program. For more information on international admission, visit the Office of Global Education's admission website.

**Transfer, Transitioning and Former Students:** For more information about admission criteria for transfer, transitioning and former students, please visit the admissions website.

## Program Learning Outcomes:

Graduates of this program will be able to:

1. Identify and evaluate current technologies and assess their applicability to address individual and organizational needs
2. Develop a product or process by applying knowledge of programming, web, digital media, database, human computer interaction, networking and security tools
3. Perform end user support including identifying and implementing solutions to user requests
4. Explain implementation, integration and maintenance for IT applications to a wide range of audiences
5. Work in diverse project teams to develop and/or implement IT-based solutions
6. Apply professional ethics in IT solutions
7. Engage in continuous learning, as well as research and assess new ideas and information to provide the capabilities for lifelong learning

## University Requirements

All students in a bachelor's degree program at Kent State University must complete the following university requirements for graduation.

**NOTE:** University requirements may be fulfilled in this program by specific course requirements. Please see Program Requirements for details.

Destination Kent State: First Year Experience	1
Course is not required for students with 25 transfer credits, excluding College Credit Plus, or age 21+ at time of admission.	
Diversity Domestic/Global (DIVD/DIVG)	2 courses
Students must successfully complete one domestic and one global course, of which one must be from the Kent Core.	
Experiential Learning Requirement (ELR)	varies
Students must successfully complete one course or approved experience.	
Kent Core (see table below)	36-37
Writing-Intensive Course (WIC)	1 course
Students must earn a minimum C grade in the course.	
Upper-Division Requirement	39 (or 42)
Students must successfully complete 39 upper-division (numbered 30000 to 49999) credit hours to graduate. Students in a B.A. and/or B.S. degree in the College of Arts and Sciences must complete 42 upper-division credit hours.	
Total Credit Hour Requirement	120
Some bachelor's degrees require students to complete more than 120 credit hours.	

## Kent Core Requirements

Kent Core Composition (KCOMP)	6
Kent Core Mathematics and Critical Reasoning (KMCR)	3
Kent Core Humanities and Fine Arts (KHUM/KFA) (min one course each)	9
Kent Core Social Sciences (KSS) (must be from two disciplines)	6
Kent Core Basic Sciences (KBS/KLAB) (must include one laboratory)	6-7
Kent Core Additional (KADL)	6
<b>Total Credit Hours:</b>	<b>36-37</b>

## Program Requirements

### Major Requirements

Code	Title	Credit Hours
<b>Major Program Requirements (courses count in major GPA)</b>		
IT 11002 or IT 13000	VISUAL BASIC PROGRAMMING APPLIED SECURITY ESSENTIALS	3
IT 11004	SURVEY OF INFORMATION TECHNOLOGY	3
IT 11005	INTRODUCTION TO OPERATING SYSTEMS AND NETWORKING TECHNOLOGY	3
IT 11006	INTRODUCTION TO WEB SITE TECHNOLOGY	3
IT 11009	COMPUTER ASSEMBLY AND CONFIGURATION	4
IT 12000	INTERMEDIATE OFFICE PRODUCTIVITY APPS	3
IT 21002	NETWORK SETUP AND CONFIGURATION	4
IT 21007	CYBER ETHICS IN INFORMATION TECHNOLOGY	3
IT 21009	SEMINAR IN COMPUTER TECHNOLOGY	3
IT 21010	WORKGROUP PRODUCTIVITY SOFTWARE	3
IT 36308	ERGONOMICS IN COMPUTER SYSTEMS	3
IT 36314	SEMINAR IN EMERGING COMPUTER AND INFORMATION TECHNOLOGIES	3
IT 36318	SURVEY OF INFORMATION SECURITY, INTERNET FRAUD AND COMPUTER FORENSICS (WIC) <sup>1</sup>	3
IT 36340	HELP DESK SUPPORT	3
IT 42000	SOCIAL MEDIA SECURITY	3
TAS 37900	TECHNICAL AND APPLIED STUDIES CORNERSTONE	3
TAS 47999	TECHNICAL AND APPLIED STUDIES CAPSTONE (ELR)	3
	Information Technology (IT) Elective	3
<b>Additional Program Requirements (courses do not count in major GPA)</b>		
UC 10097	DESTINATION KENT STATE: FIRST YEAR EXPERIENCE	1
	Kent Core Composition	6
	Kent Core Mathematics and Critical Reasoning	3
	Kent Core Humanities and Fine Arts (minimum one course from each)	9
	Kent Core Social Sciences (must be from two disciplines)	6
	Kent Core Basic Sciences (must include one laboratory)	6-7
	Kent Core Additional	6
	General Electives (total credit hours depends on earning 120 credit hours, including 39 upper-division credit hours)	9
<b>Concentrations</b>		
	Choose from the following:	18-19
	Application Development	
	Cybersecurity and Forensics	
	Database Design and Administration	
	Health Information Technology	
	Integrated Information Technology	
	Internet/Multimedia	
	Networking	
Minimum Total Credit Hours:		120

<sup>1</sup> Minimum C grade required to satisfy the writing-intensive requirement.



## Application Development Concentration Requirements

Code	Title	Credit Hours
<b>Concentration Requirements (courses count in major GPA)</b>		
IT 36301	ADVANCED C++ PROGRAMMING	4
or IT 36311	ADVANCED JAVA PROGRAMMING	
IT 36302	ADVANCED C# PROGRAMMING	3
IT 36309	PROGRAMMING MOBILE APPLICATIONS	3
IT 36350	PROGRAMMING OFFICE PRODUCTIVITY APPLICATIONS	3
or IT 46309	ASP.NET WEB PROGRAMMING	
IT 46308	ADVANCED VISUAL BASIC PROGRAMMING	3
IT 46340	DATA DESIGN AND IMPLEMENTATION	3
Minimum Total Credit Hours:		19

## Cybersecurity and Forensics Concentration Requirements

Code	Title	Credit Hours
<b>Concentration Requirements (courses count in major GPA)</b>		
IT 21200	ETHICAL HACKING	3
or IT 46313	VIRTUAL MACHINE CONFIGURATION AND ADMINISTRATION	
IT 36320	COMPUTER FORENSICS	3
IT 36321	NETWORK FORENSICS	3
IT 36330	LOCAL AREA NETWORK SECURITY FUNDAMENTALS	3
IT 46331	LOCAL AREA NETWORK SECURITY AND FIREWALLS	3
Concentration Elective, choose from the following:		3
IT 32002	LINUX NETWORKING	
IT 36322	SOCIAL MEDIA AND MOBILE DEVICE FORENSICS	
IT 40000	CYBERSECURITY	
IT 42002	WIRELESS AND MOBILE DEVICE SECURITY	
IT 46300	ADVANCED COMPUTER ASSEMBLY AND CONFIGURATION	
IT 46313	VIRTUAL MACHINE CONFIGURATION AND ADMINISTRATION	
IT 46320	CLOUD FORENSICS	
Minimum Total Credit Hours:		18

## Database Design and Administration Concentration Requirements

Code	Title	Credit Hours
<b>Concentration Requirements (courses count in major GPA)</b>		
IT 21005	VISUAL BASIC DATABASE PROGRAMMING	4
IT 36350	PROGRAMMING OFFICE PRODUCTIVITY APPLICATIONS	3
IT 46315	SQL WITH ORACLE	3
IT 46340	DATA DESIGN AND IMPLEMENTATION	3
IT 46350	DATABASE ADMINISTRATION AND REPORTING TOOLS	3
Concentration Electives, choose from the following:		3
IT 36330	LOCAL AREA NETWORK SECURITY FUNDAMENTALS	

IT 41010	MOBILE APPLICATIONS FOR INFORMATION TECHNOLOGY	
IT 41002	CLOUD TECHNOLOGY	
IT 43000	HEALTHCARE INFORMATION SYSTEMS	

Minimum Total Credit Hours: 19

## Health Information Technology Concentration Requirements

Code	Title	Credit Hours
<b>Concentration Requirements (courses count in major GPA)</b>		
IT 31002	HEALTH INFORMATION TECHNOLOGY SUPPORT	3
IT 36330	LOCAL AREA NETWORK SECURITY FUNDAMENTALS	3
IT 41010	MOBILE APPLICATIONS FOR INFORMATION TECHNOLOGY	3
IT 43000	HEALTHCARE INFORMATION SYSTEMS	3
IT 46331	LOCAL AREA NETWORK SECURITY AND FIREWALLS	3
Concentration Elective, choose from the following:		3
IT 36315	CERTIFICATION PREPARATION IN INFORMATION TECHNOLOGY	
IT 36350	PROGRAMMING OFFICE PRODUCTIVITY APPLICATIONS	
IT 41002	CLOUD TECHNOLOGY	
IT 46311	TECHNOLOGY OF NETWORKING	
IT 46313	VIRTUAL MACHINE CONFIGURATION AND ADMINISTRATION	
IT 46314	ADVANCED SERVER CONFIGURATION	
IT 46340	DATA DESIGN AND IMPLEMENTATION	

Minimum Total Credit Hours: 18

## Integrated Information Concentration Requirements

Code	Title	Credit Hours
<b>Concentration Requirements (courses count in major GPA)</b>		
IT 41010	MOBILE APPLICATIONS FOR INFORMATION TECHNOLOGY	3
Information Technology (IT) Electives		15
Minimum Total Credit Hours:		18

## Internet/Multimedia Concentration Requirements

Code	Title	Credit Hours
<b>Concentration Requirements (courses count in major GPA)</b>		
IT 36303	DIGITAL IMAGE MANIPULATION	3
IT 36309	PROGRAMMING MOBILE APPLICATIONS	3
IT 36310	MULTIMEDIA DEVELOPMENT TOOLS	3
IT 46303	DIGITAL VIDEO EDITING	3
Concentration Electives, choose from the following:		6
IT 36311	ADVANCED JAVA PROGRAMMING	
IT 36336	WEB SCRIPTING II	
IT 46309	ASP.NET WEB PROGRAMMING	
IT 46315	SQL WITH ORACLE	
IT 46321	WEB DATABASE INTEGRATION	
Minimum Total Credit Hours:		18

## Networking Concentration Requirements

Code	Title	Credit Hours
<b>Concentration Requirements (courses count in major GPA)</b>		
IT 36330	LOCAL AREA NETWORK SECURITY FUNDAMENTALS	3
IT 36355	COMMAND LINE UTILITIES	3
or IT 46312	SCRIPTING FOR NETWORK ADMINISTRATORS	
IT 41002	CLOUD TECHNOLOGY	3
or IT 46314	ADVANCED SERVER CONFIGURATION	
IT 46300	ADVANCED COMPUTER ASSEMBLY AND CONFIGURATION	3
or IT 46313	VIRTUAL MACHINE CONFIGURATION AND ADMINISTRATION	
IT 46310	TECHNOLOGY OF OPERATING SYSTEMS	3
or IT 46311	TECHNOLOGY OF NETWORKING	
Concentration Elective, choose from the following:		3
IT 21100	LOCAL AREA NETWORK TROUBLESHOOTING	
IT 21110	INTRODUCTION TO ROUTING AND SWITCHING	
IT 32002	LINUX NETWORKING	
IT 36315	CERTIFICATION PREPARATION IN INFORMATION TECHNOLOGY	
IT 36331	ADVANCED ROUTING AND SWITCHING	
IT 36355	COMMAND LINE UTILITIES	
IT 41002	CLOUD TECHNOLOGY	
IT 46300	ADVANCED COMPUTER ASSEMBLY AND CONFIGURATION	
IT 46310	TECHNOLOGY OF OPERATING SYSTEMS	
IT 46311	TECHNOLOGY OF NETWORKING	
IT 46312	SCRIPTING FOR NETWORK ADMINISTRATORS	
IT 46313	VIRTUAL MACHINE CONFIGURATION AND ADMINISTRATION	
IT 46314	ADVANCED SERVER CONFIGURATION	
IT 46331	LOCAL AREA NETWORK SECURITY AND FIREWALLS	
Minimum Total Credit Hours:		18

## Graduation Requirements

Minimum Major GPA	Minimum Overall GPA
2.000	2.000

- Students may declare more than one concentration in the Information Technology major, provided that complete minimum 12 credit hours of coursework unique to each concentration.

## Roadmap

This roadmap is a recommended semester-by-semester plan of study for this major. However, courses designated as critical (!) must be completed in the semester listed to ensure a timely graduation.

Semester One		Credits
IT 11002	VISUAL BASIC PROGRAMMING	3
or IT 13000	or APPLIED SECURITY ESSENTIALS	
IT 11004	SURVEY OF INFORMATION TECHNOLOGY	3
IT 11005	INTRODUCTION TO OPERATING SYSTEMS AND NETWORKING TECHNOLOGY	3
UC 10097	DESTINATION KENT STATE: FIRST YEAR EXPERIENCE	1
Kent Core Requirement		3
Kent Core Requirement		3
Credit Hours		16
Semester Two		Credits
IT 11006	INTRODUCTION TO WEB SITE TECHNOLOGY	3
IT 11009	COMPUTER ASSEMBLY AND CONFIGURATION	4
IT 12000	INTERMEDIATE OFFICE PRODUCTIVITY APPS	3
Kent Core Requirement		3
Kent Core Requirement		3
Credit Hours		16
Semester Three		Credits
IT 21002	NETWORK SETUP AND CONFIGURATION	4
IT 21010	WORKGROUP PRODUCTIVITY SOFTWARE	3
Kent Core Requirement		3
Kent Core Requirement		3
Kent Core Requirement		3
Credit Hours		16
Semester Four		Credits
IT 21007	CYBER ETHICS IN INFORMATION TECHNOLOGY	3
IT 21009	SEMINAR IN COMPUTER TECHNOLOGY	3
Kent Core Requirement		3
Kent Core Requirement		3
Kent Core Requirement		3
Credit Hours		15
Semester Five		Credits
IT 36308	ERGONOMICS IN COMPUTER SYSTEMS	3
IT 36318	SURVEY OF INFORMATION SECURITY, INTERNET FRAUD AND COMPUTER FORENSICS (WIC)	3
TAS 37900	TECHNICAL AND APPLIED STUDIES CORNERSTONE	3
Kent Core Requirement		3
Kent Core Requirement		3
Credit Hours		15
Semester Six		Credits
Concentration Requirements		12
Information Technology (IT) Elective		3
Credit Hours		15
Semester Seven		Credits
IT 36340	HELP DESK SUPPORT	3
IT 42000	SOCIAL MEDIA SECURITY	3
Concentration Requirement		3
General Electives		6
Credit Hours		15

### Semester Eight

IT 36314	SEMINAR IN EMERGING COMPUTER AND INFORMATION TECHNOLOGIES	3
TAS 47900		3
Concentration Requirement		3
General Elective		3
Credit Hours		12
Minimum Total Credit Hours:		120

## Insurance Studies - B.S.

### College of Applied and Technical Studies

cats@kent.edu

www.kent.edu/cats

## Description

The Bachelor of Science degree in Insurance Studies provides students with the academic background for career entry in the insurance industry. The insurance studies degree program offers a well rounded core of business and social science courses including management technology, professional writing, and human communications.

Building on this core curriculum are courses that provide the opportunity to explore all lines of insurance, including personal lines, commercial lines, life and health insurance. Students also take on an internship during their third year to reinforce their insurance industry knowledge and gain real-world experience.

The knowledge gained in the insurance program permits students to join any organization within the insurance industry with a solid understanding of applicable products, regulations, operations and policy contracts. Students graduate with knowledge of several specific insurance industry facets, such as property and casualty insurance, life and health insurance, insurance company and agency operations, insurance regulation, insurance finance and risk management.

### Fully Offered At:

- Online
- Salem Campus

## Admission Requirements

The university affirmatively strives to provide educational opportunities and access to students with varied backgrounds, those with special talents and adult students who graduated from high school three or more years ago.

**Freshman Students on the Kent Campus:** The freshman admission policy on the Kent Campus is selective. Admission decisions are based upon the following: cumulative grade point average, ACT and/or SAT scores, strength of high school college preparatory curriculum and grade trends. The Admissions Office at the Kent Campus may defer the admission of students who do not meet admissions criteria but who demonstrate areas of promise for successful college study. Deferred applicants may begin their college coursework at one of seven regional campuses of Kent State University. For more information on admissions, including additional requirements for some academic programs, visit the admissions website for new freshmen.

**Freshman Students on the Regional Campuses:** Kent State campuses at Ashtabula, East Liverpool, Geauga, Salem, Stark, Trumbull and Tuscarawas, as well as the Regional Academic Center in Twinsburg, have open enrollment admission for students who hold a high school diploma, GED or equivalent.

**English Language Proficiency Requirements for International Students:** All international students must provide proof of English language proficiency (unless they meet specific exceptions) by earning a minimum 525 TOEFL score (71 on the Internet-based version), minimum 75 MELAB score, minimum 6.0 IELTS score or minimum 48 PTE score, or by completing the ESL level 112 Intensive Program. For more information on international admission, visit the Office of Global Education's admission website.

**Transfer, Transitioning and Former Students:** For more information about admission criteria for transfer, transitioning and former students, please visit the admissions website.

## Program Learning Outcomes

Graduates of this program will be able to:

- Demonstrate in-depth knowledge of the insurance industry
- Possess strong analytical and problem-solving skills to identify and critically assess problems facing the insurance industry
- Identify and assess legal and ethical issues surrounding insurance industry decisions
- Work effectively in a team-based environment

## University Requirements

All students in a bachelor's degree program at Kent State University must complete the following university requirements for graduation.

**NOTE:** University requirements may be fulfilled in this program by specific course requirements. Please see Program Requirements for details.

Destination Kent State: First Year Experience	1
Course is not required for students with 25 transfer credits, excluding College Credit Plus, or age 21+ at time of admission.	
Diversity Domestic/Global (DIVD/DIVG)	2 courses
Students must successfully complete one domestic and one global course, of which one must be from the Kent Core.	
Experiential Learning Requirement (ELR)	varies
Students must successfully complete one course or approved experience.	
Kent Core (see table below)	36-37
Writing-Intensive Course (WIC)	1 course
Students must earn a minimum C grade in the course.	
Upper-Division Requirement	39 (or 42)
Students must successfully complete 39 upper-division (numbered 30000 to 49999) credit hours to graduate. Students in a B.A. and/or B.S. degree in the College of Arts and Sciences must complete 42 upper-division credit hours.	
Total Credit Hour Requirement	120
Some bachelor's degrees require students to complete more than 120 credit hours.	

## Kent Core Requirements

Kent Core Composition (KCMP)	6
Kent Core Mathematics and Critical Reasoning (KMCR)	3
Kent Core Humanities and Fine Arts (KHUM/KFA) (min one course each)	9
Kent Core Social Sciences (KSS) (must be from two disciplines)	6
Kent Core Basic Sciences (KBS/KLAB) (must include one laboratory)	6-7
Kent Core Additional (KADL)	6
<b>Total Credit Hours:</b>	<b>36-37</b>

## Program Requirements

### Major Requirements

Code	Title	Credit Hours
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#### Major Requirements (courses count in major GPA)

BMRT 11000	INTRODUCTION TO BUSINESS	3
BMRT 11009	INTRODUCTION TO MANAGEMENT TECHNOLOGY	3
COMM 15000	INTRODUCTION TO HUMAN COMMUNICATION (KADL)	3
ENG 30063	PROFESSIONAL WRITING	3
INS 29000	INTRODUCTION TO INSURANCE AND RISK	3
INS 39000	INSURANCE LAW, FINANCE AND RISK MANAGEMENT	3
INS 39001	INSURANCE OPERATIONS (WIC) <sup>1</sup>	3
INS 49000	LIFE AND HEALTH INSURANCE	3
INS 49001	PERSONAL LINES INSURANCE	3
INS 49002	COMMERCIAL INSURANCE	3
INS 49092	INSURANCE PRACTICUM GENERAL (ELR)	3
PSYC 11762	GENERAL PSYCHOLOGY (DIVD) (KSS)	3
SOC 12050	INTRODUCTION TO SOCIOLOGY (DIVD) (KSS)	3
TAS 37900	TECHNICAL AND APPLIED STUDIES CORNERSTONE	3
Major Electives, choose from the following: <sup>2</sup>		36

COMM 20001	INTERPERSONAL COMMUNICATION	
COMM 35864	ORGANIZATIONAL COMMUNICATION <sup>1</sup>	
COMM 45807	HIGH IMPACT PROFESSIONAL SPEAKING	
LIS 30010	INFORMATION FLUENCY IN THE WORKPLACE AND BEYOND	
OTEC 16620	WORD PROCESSING I	
OTEC 16625	BUSINESS PRESENTATIONS	
OTEC 16639	DATABASE APPLICATIONS	
OTEC 26611	SPREADSHEET APPLICATIONS	
OTEC 26622	DESKTOP PUBLISHING I	
PSYC 30821	PSYCHOLOGY OF MOTIVATION	
PSYC 31773	INDUSTRIAL PSYCHOLOGY	
PSYC 41581	HEALTH PSYCHOLOGY	
SOC 42558	WEALTH, POVERTY AND POWER	
SOC 42563	SOCIOLOGY OF HEALTH AND HEALTH CARE	
SOC 42879	AGING IN SOCIETY (DIVD)	

#### Additional Requirements (courses do not count in major GPA)

UC 10097	DESTINATION KENT STATE: FIRST YEAR EXPERIENCE	1
Kent Core Composition		6
Kent Core Mathematics and Critical Reasoning		3
Kent Core Humanities and Fine Arts (minimum one course from each)		9

Kent Core Basic Sciences (must include one laboratory)	6-7
Kent Core Additional	3
Non-Business and Non-Applied Business Electives (total credit hours depends on earning 120 credit hours, including 39 upper-division credit hours) <sup>2</sup>	14
<b>Minimum Total Credit Hours:</b>	<b>120</b>

<sup>1</sup> A minimum C grade must be earned to fulfill the writing-intensive requirement.

<sup>2</sup> ACCT, ACTT, BMRT, BUS, ECON, ENTR, FIN, IT, MIS, MKGT or MMTG courses cannot count as major electives or non-Business/non-applied business electives.

## Graduation Requirements

Minimum Major GPA	Minimum Overall GPA
2.000	2.000

## Roadmap

This roadmap is a recommended semester-by-semester plan of study for this major. However, courses designated as critical (!) must be completed in the semester listed to ensure a timely graduation.

Semester One		Credits
BMRT 11000	INTRODUCTION TO BUSINESS	3
COMM 15000	INTRODUCTION TO HUMAN COMMUNICATION (KADL)	3
UC 10097	DESTINATION KENT STATE: FIRST YEAR EXPERIENCE	1
Kent Core Requirement		3
Kent Core Requirement		3
Kent Core Requirement		3
Credit Hours		16
Semester Two		
INS 29000	INTRODUCTION TO INSURANCE AND RISK	3
Kent Core Requirement		3
Kent Core Requirement		3
Major Elective		6
Credit Hours		15
Semester Three		
BMRT 11009	INTRODUCTION TO MANAGEMENT TECHNOLOGY	3
SOC 12050	INTRODUCTION TO SOCIOLOGY (DIVD) (KSS)	3
Kent Core Requirement		3
Kent Core Requirement		3
Kent Core Requirement		3
Credit Hours		15
Semester Four		
PSYC 11762	GENERAL PSYCHOLOGY (DIVD) (KSS)	3
Kent Core Requirement		3
Major Electives		6
Non-Business/Non-Applied Business Elective		3
Credit Hours		15
Semester Five		
INS 39000	INSURANCE LAW, FINANCE AND RISK MANAGEMENT	3
Major Electives		6

Non-Business/Non-Applied Business Elective	3
Credit Hours	12

### Semester Six

ENG 30063	PROFESSIONAL WRITING	3
INS 39001	INSURANCE OPERATIONS (WIC)	3
Major Electives		6
Non-Business/Non-Applied Business Elective		3
Credit Hours		15

### Third Summer Term

INS 49092	INSURANCE PRACTICUM GENERAL (ELR)	3
Credit Hours		3

### Semester Seven

INS 49001	PERSONAL LINES INSURANCE	3
INS 49002	COMMERCIAL INSURANCE	3
TAS 37900	TECHNICAL AND APPLIED STUDIES CORNERSTONE	3
Major Electives		3
Non-Business/Non Applied Business Elective		3
Credit Hours		15

### Semester Eight

INS 49000	LIFE AND HEALTH INSURANCE	3
Major Electives		9
Non-Business/Non-Applied Business Elective		2
Credit Hours		14
Minimum Total Credit Hours:		120

## Insurance Studies - Minor

### College of Applied and Technical Studies

cats@kent.edu  
www.kent.edu/cats

## Description

The Insurance Studies minor has been designed so students from many disciplines can complement their major and develop the skills necessary to enter this industry. The insurance industry offers career opportunities for graduates from a wide variety of majors and provides great employment opportunities. Some of the positions include accountants, adjusters, actuaries, agents, IT specialists, investigators, underwriters, nurses, sales and operations managers.

### Fully Offered At:

- Online

## Admission Requirements

Admission to a minor is open to students declared in a bachelor's degree, the A.A.B. or A.A.S. degree or the A.T.S. degree (not Individualized Program major). Students declared only in the A.A. or A.S. degree or the A.T.S. degree in Individualized Program may not declare a minor. Students may not pursue a minor and a major in the same discipline.



## Program Requirements

### Minor Requirements

Code	Title	Credit Hours
<b>Minor Requirements</b>		
INS 29000	INTRODUCTION TO INSURANCE AND RISK	3
INS 39000	INSURANCE LAW, FINANCE AND RISK MANAGEMENT	3
INS 39001	INSURANCE OPERATIONS (WIC)	3
or INS 49000	LIFE AND HEALTH INSURANCE	
or INS 49001	PERSONAL LINES INSURANCE	
or INS 49002	COMMERCIAL INSURANCE	
Minor Electives, choose from the following:		9
BMRT 11000	INTRODUCTION TO BUSINESS <sup>1</sup>	
BMRT 11009	INTRODUCTION TO MANAGEMENT TECHNOLOGY <sup>2</sup>	
COMM 15000	INTRODUCTION TO HUMAN COMMUNICATION (KADL)	
MKTG 45046	PROFESSIONAL SELLING	
Minimum Total Credit Hours:		18

<sup>1</sup> Students may substitute BUS 10123 for BMRT 11000

<sup>2</sup> Students may substitute MGMT 24163 for BMRT 11009

### Graduation Requirement

Minimum Minor GPA	Minimum Overall GPA
2.000	2.000

- Minimum 6 credit hours in the minor must be upper-division coursework (30000 and 40000 level).
- Minimum 6 credit hours in the minor must be outside of the course requirements for any major or other minor the student is pursuing.
- Minimum 50 percent of the total credit hours for the minor must be taken at Kent State (in residence).

## Legal Assisting Technology - A.A.S.

### College of Applied and Technical Studies

cats@kent.edu

www.kent.edu/cats

### Description

**Admission to the Legal Assisting Technology has been suspended temporarily on the Trumbull campus as of Fall 2020.**

The Associate of Applied Science degree in Legal Assisting Technology provides training in legal office procedures, research, writing and criminal justice. The degree program is not approved by the American Bar Association and does not prepare students to work as paralegals.

### Fully Offered At:

- Trumbull Campus

## Admission Requirements

The university affirmatively strives to provide educational opportunities and access to students with varied backgrounds, those with special talents and adult students who graduated from high school three or more years ago.

Kent State campuses at Ashtabula, East Liverpool, Geauga, Salem, Stark, Trumbull and Tuscarawas, and the Twinsburg Academic Center, have open enrollment admission for students who hold a high school diploma, GED or equivalent.

For more information on admissions, contact the Regional Campuses admissions offices.

## Program Learning Outcomes

Graduates of this program will be able to:

1. Demonstrate an understanding of the varieties of the practice of law, including private, governmental (all levels), the judiciary and corporate or other business settings.
2. Demonstrate an understanding of the rules of professional and ethical conduct for lawyers, and their application to legal assistants.
3. Demonstrate an ability to recognize, organize and prioritize their work to be as efficient as they can.
4. Perform legal research using traditional and new technologies, and to apply the research to real cases.
5. Demonstrate substantive knowledge in legal practice areas appropriate for paralegals, including family law, estate and probate administration and civil litigation.
6. Draft various legal documents in various areas.

## University Requirements

All students in an applied or technical associate degree program at Kent State University must complete the following university requirements for graduation.

**NOTE:** University requirements may be fulfilled in this program by specific course requirements, please see Program Requirements for details.

Code	Title	Credit Hours
Destination Kent State: First Year Experience		1
Course is not required for students with 25 transfer credits, excluding College Credit Plus, or age 21+ at time of admission.		
Kent Core (see table below)		15
Total Credit Hour Requirement		60
Some associate degrees require students to complete more than 60 credit hours.		

## Kent Core Requirements

Kent Core Composition (KCMP)	3
Kent Core Mathematics and Critical Reasoning (KMCR)	3
Kent Core Humanities and Fine Arts (KHUM/KFA)	3
Kent Core Social Sciences (KSS)	3
Kent Core Basic Sciences (KBS/KLAB)	3
<b>Total Credit Hours:</b>	<b>15</b>

## Program Requirements

### Major Requirements

Code	Title	Credit Hours
<b>Major Requirements (courses count in major GPA)</b>		
PLST 18000	INTRODUCTION TO PARALEGAL STUDIES AND PROFESSIONAL ETHICS	3
PLST 28001	LEGAL RESEARCH AND WRITING	3
PLST 28003	FAMILY LAW AND PROCEDURE	3
PLST 28004	PRINCIPLES AND PRACTICE OF LITIGATION	3
PLST 28007	ESTATE AND PROBATE ADMINISTRATION	3
PLST 36792	INTERNSHIP IN PARALEGAL (ELR)	3
PLST 38006	APPLIED LEGAL RESEARCH AND LITIGATION (WIC)	3
Technical Electives, choose from the following:		12
ACTT 21003	FUNDAMENTALS OF TAX PREPARATION	
BMRT 11009	INTRODUCTION TO MANAGEMENT TECHNOLOGY	
BMRT 21000	BUSINESS LAW AND ETHICS I	
ENG 20002	INTRODUCTION TO TECHNICAL WRITING	
CRIM 12000	INTRODUCTION TO JUSTICE STUDIES	
CRIM 22100	BASIC INTERVIEWING	
CRIM 22301	THE INVESTIGATIVE PROCESS	
CRIM 26704	ISSUES IN LAW AND SOCIETY (KSS)	
CRIM 33200	CRIMINAL LAW	
CRIM 34200	CRIMINAL PROCEDURES AND EVIDENCE	
CRIM 47211	COURT FUNCTIONS	
PLST 38005	TORT LAW	
PLST 48002	CONTRACT LAW	
PLST 48300	LAW OF CORPORATIONS AND OTHER ASSOCIATIONS	
<b>Additional Requirements (courses do not count in major GPA)</b>		
ACTT 11000	ACCOUNTING I: FINANCIAL	4
BMRT 11000	INTRODUCTION TO BUSINESS	3
COMM 15000	INTRODUCTION TO HUMAN COMMUNICATION (KADL)	3
IT 11000	INTRODUCTION TO OFFICE PRODUCTIVITY APPS	3
PSYC 11762	GENERAL PSYCHOLOGY (DIVD) (KSS)	3
or SOC 12050	INTRODUCTION TO SOCIOLOGY (DIVD) (KSS)	
UC 10097	DESTINATION KENT STATE: FIRST YEAR EXPERIENCE	1
Kent Core Composition <sup>1</sup>		6
Kent Core Mathematics and Critical Reasoning		3
Kent Core Humanities and Fine Arts		3
Kent Core Basic Sciences		3
Minimum Total Credit Hours:		65

<sup>1</sup> 3 credit hours are required for Kent Core (University Requirements). This program requires a total of 6 credit hours to earn the degree.

## Graduation Requirements

Minimum Major GPA	Minimum Overall GPA
2.000	2.000

## Roadmap

This roadmap is a recommended semester-by-semester plan of study for this major. However, courses designated as critical (!) must be completed in the semester listed to ensure a timely graduation.

Semester One		Credits
COMM 15000	INTRODUCTION TO HUMAN COMMUNICATION (KADL)	3
IT 11000	INTRODUCTION TO OFFICE PRODUCTIVITY APPS	3
! PLST 18000	INTRODUCTION TO PARALEGAL STUDIES AND PROFESSIONAL ETHICS	3
UC 10097	DESTINATION KENT STATE: FIRST YEAR EXPERIENCE	1
Kent Core Requirement		3
Kent Core Requirement		3
Credit Hours		16
Semester Two		
ACTT 11000	ACCOUNTING I: FINANCIAL	4
BMRT 11000	INTRODUCTION TO BUSINESS	3
! PLST 28001	LEGAL RESEARCH AND WRITING	3
Technical Elective		3
Kent Core Requirement		3
Credit Hours		16
Semester Three		
! PLST 28004	PRINCIPLES AND PRACTICE OF LITIGATION	3
! PLST 38006	APPLIED LEGAL RESEARCH AND LITIGATION (WIC)	3
PSYC 11762 or SOC 12050	GENERAL PSYCHOLOGY (DIVD) (KSS) or INTRODUCTION TO SOCIOLOGY (DIVD) (KSS)	3
Technical Elective		3
Kent Core Requirement		3
Kent Core Requirement		3
Credit Hours		18
Semester Four		
! PLST 28003	FAMILY LAW AND PROCEDURE	3
! PLST 28007	ESTATE AND PROBATE ADMINISTRATION	3
! PLST 36792	INTERNSHIP IN PARALEGAL (ELR)	3
Technical Electives		6
Credit Hours		15
Minimum Total Credit Hours:		65

## Mechanical Engineering Technology - A.A.S.

College of Applied and Technical Studies

cats@kent.edu

www.kent.edu/cats

## Description

The Associate of Applied Science degree in Mechanical Engineering Technology provides students with knowledge and skills in the manufacturing areas related to computer-controlled equipment and integrated manufacturing. Students learn drafting, materials testing, robotics applications and computer-aided design (CAD) and

computer-aided manufacturing (CAM) software for design and design documentation.

The Mechanical Engineering Technology major comprises the following concentrations:

- The **General** concentration includes coursework in microprocessors and robotics, manufacturing processes, computer-aided tool design and professional ethics.
- The **Mechtronics** concentration is cross-disciplinary and provides students with skills in electrical and electronic devices, hydraulics and pneumatics and programmable logic controllers

The degree program articulates into Kent State's Bachelor of Science degree in Engineering Technology.

### Fully Offered At:

- Tuscarawas Campus

## Accreditation

The A.A.S. degree in Mechanical Engineering Technology is accredited by the Engineering Technology Accreditation Commission of ABET, <http://www.abet.org>.

## Admission Requirements

The university affirmatively strives to provide educational opportunities and access to students with varied backgrounds, those with special talents and adult students who graduated from high school three or more years ago.

Kent State campuses at Ashtabula, East Liverpool, Geauga, Salem, Stark, Trumbull and Tuscarawas, and the Twinsburg Academic Center, have open enrollment admission for students who hold a high school diploma, GED or equivalent.

For more information on admissions, contact the Regional Campuses admissions offices.

## Program Learning Outcomes

Graduates of this program will be able to:

1. Apply the knowledge, techniques, skills and modern tools of mathematics, science, engineering and technology to solve mechanical engineering technology problems that require limited application of principles but extensive practical knowledge.
2. Design solutions for well-defined mechanical engineering technology problems and assist with the design of systems, components, or processes for solving broad mechanical engineering technology problems.
3. Apply written, oral and graphical communication in both technical and non-technical environments, and proficiently use technical reference material.
4. Conduct standard tests, measurements, and experiments and analyze and interpret the results.
5. Function effectively as a member of a technical team.
6. Understand and commit to address professional and ethical responsibilities, including a respect for diversity.

## University Requirements

All students in an applied or technical associate degree program at Kent State University must complete the following university requirements for graduation.

**NOTE:** University requirements may be fulfilled in this program by specific course requirements, please see Program Requirements for details.

Code	Title	Credit Hours
	Destination Kent State: First Year Experience	1
	Course is not required for students with 25 transfer credits, excluding College Credit Plus, or age 21+ at time of admission.	
	Kent Core (see table below)	15
	<b>Total Credit Hour Requirement</b>	<b>60</b>
	Some associate degrees require students to complete more than 60 credit hours.	

## Kent Core Requirements

Kent Core Composition (KCOMP)	3
Kent Core Mathematics and Critical Reasoning (KMCR)	3
Kent Core Humanities and Fine Arts (KHUM/KFA)	3
Kent Core Social Sciences (KSS)	3
Kent Core Basic Sciences (KBS/KLAB)	3
<b>Total Credit Hours:</b>	<b>15</b>

## Program Requirements

### Major Requirements

Code	Title	Credit Hours
<b>Major Requirements (courses count in major GPA)</b>		
ENGT 22009	ENGINEERING TECHNOLOGY PROJECT	2
MERT 12000	ENGINEERING DRAWING	3
MERT 12001	COMPUTER-AIDED DESIGN	3
MERT 12005	PROPERTIES OF MATERIALS	3
<b>Additional Requirements (courses do not count in major GPA)</b>		
COMM 15000	INTRODUCTION TO HUMAN COMMUNICATION (KADL)	3
ENG 20002 or OTEC 26638	INTRODUCTION TO TECHNICAL WRITING BUSINESS COMMUNICATIONS	3
MATH 11010	ALGEBRA FOR CALCULUS (KMCR)	3
MATH 11022	TRIGONOMETRY (KMCR)	3
UC 10097	DESTINATION KENT STATE: FIRST YEAR EXPERIENCE	1
Kent Core Composition		3
Kent Core Humanities and Fine Arts		3
Kent Core Social Sciences		3
<b>Concentrations</b>		
Choose from the following:		30-31
General		
Mechtronics		
<b>Minimum Total Credit Hours:</b>		<b>63-64</b>

## General Concentration Requirements

Code	Title	Credit Hours
<b>Concentration Requirements (courses count in major GPA)</b>		
EERT 21010 or ENGR 31010	ENGINEERING AND PROFESSIONAL ETHICS	3
EERT 22014	MICROPROCESSORS AND ROBOTICS	3
MATH 11012	INTUITIVE CALCULUS (KMCR)	3
MERT 12004	MANUFACTURING PROCESSES	3
MERT 22003	COMPUTER-AIDED TOOL DESIGN	3
MERT 22005	STATICS	3
MERT 22007	STRENGTH OF MATERIALS	3
MERT 22012	FLUID POWER	3
<b>Additional Requirements (courses do not count in major GPA)</b>		
	Physics Elective A, choose from the following:	3-5
PHY 12201	TECHNICAL PHYSICS I (KBS) (KLAB)	
PHY 13001 & PHY 13021	GENERAL COLLEGE PHYSICS I (KBS) and GENERAL COLLEGE PHYSICS LABORATORY I (KBS) (KLAB)	
	Physics Elective B, choose from the following:	3-5
PHY 12202	TECHNICAL PHYSICS II (KBS) (KLAB)	
PHY 13002 & PHY 13022	GENERAL COLLEGE PHYSICS II (KBS) and GENERAL COLLEGE PHYSICS LABORATORY II (KBS) (KLAB)	
PHY 13012 & PHY 13022	COLLEGE PHYSICS II (KBS) and GENERAL COLLEGE PHYSICS LABORATORY II (KBS) (KLAB)	

Minimum Total Credit Hours: 31

## Mechtronics Concentration Requirements

Code	Title	Credit Hours
<b>Concentration Requirements (courses count in major GPA)</b>		
BMRT 11000	INTRODUCTION TO BUSINESS	3
EERT 12000	ELECTRIC CIRCUITS I	4
EERT 12001	ELECTRIC CIRCUITS II	3
ENGR 33031	PROGRAMMABLE LOGIC CONTROLLERS	3
MATH 11012	INTUITIVE CALCULUS (KMCR)	3
MERT 12004	MANUFACTURING PROCESSES	3
MERT 22012	FLUID POWER	3
<b>Additional Requirements (courses do not count in major GPA)</b>		
PHY 13001	GENERAL COLLEGE PHYSICS I (KBS)	4
PHY 13021	GENERAL COLLEGE PHYSICS LABORATORY I (KBS) (KLAB)	1
PHY 13002 or PHY 13012	GENERAL COLLEGE PHYSICS II (KBS) COLLEGE PHYSICS II (KBS)	2-4
PHY 13022	GENERAL COLLEGE PHYSICS LABORATORY II (KBS) (KLAB)	1

Minimum Total Credit Hours: 30

## Graduation Requirements

Minimum Major GPA	Minimum Overall GPA
2.000	2.000

## Roadmaps

- General Concentration
- Mechtronics Concentration

### General Concentration

This roadmap is a recommended semester-by-semester plan of study for this major. However, courses designated as critical (!) must be completed in the semester listed to ensure a timely graduation.

<b>Semester One</b>		<b>Credits</b>
MATH 11010	ALGEBRA FOR CALCULUS (KMCR)	3
! MERT 12000	ENGINEERING DRAWING	3
! MERT 12004	MANUFACTURING PROCESSES	3
UC 10097	DESTINATION KENT STATE: FIRST YEAR EXPERIENCE	1
Kent Core Requirement		3
Kent Core Requirement		3
Credit Hours		16
<b>Semester Two</b>		
COMM 15000	INTRODUCTION TO HUMAN COMMUNICATION (KADL)	3
MATH 11022	TRIGONOMETRY (KMCR)	3
! MERT 12001	COMPUTER-AIDED DESIGN	3
! MERT 12005	PROPERTIES OF MATERIALS	3
MERT 22012	FLUID POWER	3
Credit Hours		15
<b>Semester Three</b>		
! EERT 22014	MICROPROCESSORS AND ROBOTICS	3
MATH 11012	INTUITIVE CALCULUS (KMCR)	3
! MERT 22003	COMPUTER-AIDED TOOL DESIGN	3
! MERT 22005	STATICS	3
Physics Elective A		3-5
Credit Hours		15
<b>Semester Four</b>		
EERT 21010 or ENGR 31010	ENGINEERING AND PROFESSIONAL ETHICS or ENGINEERING AND PROFESSIONAL ETHICS	3
ENG 20002 or OTEC 26638	INTRODUCTION TO TECHNICAL WRITING or BUSINESS COMMUNICATIONS	3
ENGT 22009	ENGINEERING TECHNOLOGY PROJECT	2
! MERT 22007	STRENGTH OF MATERIALS	3
Physics Elective B		4-5
Kent Core Requirement		3
Credit Hours		18
Minimum Total Credit Hours:		64



## Mechtronics Concentration

This roadmap is a recommended semester-by-semester plan of study for this major. However, courses designated as critical (!) must be completed in the semester listed to ensure a timely graduation.

Semester One		Credits
BMRT 11000	INTRODUCTION TO BUSINESS	3
MATH 11010	ALGEBRA FOR CALCULUS (KMCR)	3
MATH 11022	TRIGONOMETRY (KMCR)	3
! MERT 12000	ENGINEERING DRAWING	3
! MERT 12004	MANUFACTURING PROCESSES	3
UC 10097	DESTINATION KENT STATE: FIRST YEAR EXPERIENCE	1
Credit Hours		16
Semester Two		
MATH 11012	INTUITIVE CALCULUS (KMCR)	3
! MERT 12001	COMPUTER-AIDED DESIGN	3
! MERT 12005	PROPERTIES OF MATERIALS	3
PHY 13001	GENERAL COLLEGE PHYSICS I (KBS)	4
PHY 13021	GENERAL COLLEGE PHYSICS LABORATORY I (KBS) (KLAB)	1
Kent Core Requirement		3
Credit Hours		17
Semester Three		
! EERT 12000	ELECTRIC CIRCUITS I	4
ENG 20002	INTRODUCTION TO TECHNICAL WRITING or BUSINESS COMMUNICATIONS	3
or OTEC 26638		
ENGT 22009	ENGINEERING TECHNOLOGY PROJECT	2
PHY 13002	GENERAL COLLEGE PHYSICS II (KBS) or COLLEGE PHYSICS II (KBS)	2-4
or PHY 13012		
PHY 13022	GENERAL COLLEGE PHYSICS LABORATORY II (KBS) (KLAB)	1
Kent Core Requirement		3
Credit Hours		15
Semester Four		
COMM 15000	INTRODUCTION TO HUMAN COMMUNICATION (KADL)	3
! EERT 12001	ELECTRIC CIRCUITS II	3
ENGR 33031	PROGRAMMABLE LOGIC CONTROLLERS	3
MERT 22012	FLUID POWER	3
Kent Core Requirement		3
Credit Hours		15
Minimum Total Credit Hours:		63

## Medical Billing - Undergraduate Certificate

College of Applied and Technical Studies

cats@kent.edu

www.kent.edu/cats

### Description

The Medical Billing undergraduate certificate provides a basic understanding of software, medical terminology, coding and procedures

used in medical settings such as hospitals, clinics, doctors' offices and outsourcing facilities involved with providing billing operations.

The certificate prepares students for the Certified Coding Associate exam from the American Health Information Management Association (AHIMA).

### Fully Offered At:

- Online
- Salem Campus
- Tuscarawas Campus

## Admission Requirements

The university affirmatively strives to provide educational opportunities and access to students with varied backgrounds, those with special talents and adult students who graduated from high school three or more years ago.

Kent State campuses at Ashtabula, East Liverpool, Geauga, Salem, Stark, Trumbull and Tuscarawas, and the Twinsburg Academic Center, have open enrollment admission for students who hold a high school diploma, GED or equivalent.

For more information on admissions, contact the Regional Campuses admissions offices.

## Program Requirements

### Certificate Requirements

Code	Title	Credit Hours
<b>Certificate Requirements</b>		
BSCI 10001	HUMAN BIOLOGY (KBS)	3
or BSCI 21010	ANATOMY AND PHYSIOLOGY I (KBS) (KLAB)	
HED 14020	MEDICAL TERMINOLOGY	3
OTEC 16620	WORD PROCESSING I	3
OTEC 16639	DATABASE APPLICATIONS	3
OTEC 26650	MEDICAL BILLING PROCEDURES	3
OTEC 26655	ICD CODING	3
OTEC 26656	CPT CODING	3
Minimum Total Credit Hours:		21

### Graduation Requirements

Minimum Certificate GPA	Minimum Overall GPA
2.000	2.000

- Students must complete a minimum of 15 credit hours of the certificate curriculum at Kent State University.
- Transfer credits may be used as long as letter grade appear on original transcript.

## Modeling and Animation - Minor

College of Applied and Technical Studies

cats@kent.edu

www.kent.edu/cats

## Description

The Modeling and Animation minor provides students with an understanding of and skills to create: parametric models, 2D graphics, UV texturing, character and environment modeling, lighting and rendering, as well as animation.

### Fully Offered At:

- Kent Campus
- Stark Campus
- Tuscarawas Campus

## Admission Requirements

Admission to a minor is open to students declared in a bachelor's degree, the A.A.B. or A.A.S. degree or the A.T.S. degree (not Individualized Program major). Students declared only in the A.A. or A.S. degree or the A.T.S. degree in Individualized Program may not declare a minor. Students may not pursue a minor and a major in the same discipline.

## Program Requirements

### Minor Requirements

Code	Title	Credit Hours
<b>Minor Requirements</b>		
AGD 11003	SOLID MODELING	3
AGD 12000	TWO DIMENSION GRAPHICS	3
AGD 12001	MODELING AND TEXTURING I	3
AGD 22004	MODELING AND TEXTURING II	3
AGD 22010	DIGITAL SCULPTING	3
AGD 34000	CHARACTER ANIMATION	3
AGD 34001	ANIMATION PROJECT	3
Minimum Total Credit Hours:		21

### Graduation Requirement

Minimum Minor GPA	Minimum Overall GPA
2.000	2.000

- Minimum 6 credit hours in the minor must be upper-division coursework (30000 and 40000 level).
- Minimum 6 credit hours in the minor must be outside of the course requirements for any major or other minor the student is pursuing.
- Minimum 50 percent of the total credit hours for the minor must be taken at Kent State (in residence).

## Nursing (A.D.N.) - A.A.S.

### College of Applied and Technical Studies

cats@kent.edu  
www.kent.edu/cats

## Description

The Associate of Applied Science degree in Nursing prepares students for the registered nurse profession. The curriculum is designed to meet the health care needs of the 21st century. The curriculum focuses on the

registered nurse's role in the communities, hospitals, clinics, and home health care.

Graduates are eligible to take the National Council Licensure Examination for Registered Nurses (NCLEX-RN).

The Nursing major includes the following optional concentrations:

- The **LPN to ADN** concentration is a completer program for students who are licensed practical nurses.
- The **Paramedic to ADN** concentration is a completer program for students who are certified paramedics.

### Fully Offered At:

- Ashtabula Campus
- East Liverpool Campus
- Geauga Campus
- Tuscarawas Campus
- Twinsburg Academic Center

## Accreditation

The A.A.S. degree in Nursing is accredited by the Accreditation Commission for Education in Nursing (ACEN) and approved by the Ohio Board of Nursing (OBN).

## Admission Requirements

The university affirmatively strives to provide educational opportunities and access to students with varied backgrounds, those with special talents and adult students who graduated from high school three or more years ago.

Kent State campuses at Ashtabula, East Liverpool, Geauga, Salem, Stark, Trumbull and Tuscarawas, and the Twinsburg Academic Center, have open enrollment admission for students who hold a high school diploma, GED or equivalent.

For more information on admissions, contact the Regional Campuses admissions offices.

## Program Learning Outcomes

Graduates of this program will be able to:

1. Use the nursing process to meet self-care demands of individuals in structured settings
2. Demonstrate therapeutic communication skills in interactions with patients, families and health team members
3. Perform safely the nursing skills and techniques identified in all nursing courses
4. Function within the legal and ethical guidelines of the nursing role as a provider of care, manager of care and member of the profession

## University Requirements

All students in an applied or technical associate degree program at Kent State University must complete the following university requirements for graduation.

**NOTE:** University requirements may be fulfilled in this program by specific course requirements, please see Program Requirements for details.

Code	Title	Credit Hours
Destination Kent State: First Year Experience		
		1
Course is not required for students with 25 transfer credits, excluding College Credit Plus, or age 21+ at time of admission.		
Kent Core (see table below)		15
Total Credit Hour Requirement		60
Some associate degrees require students to complete more than 60 credit hours.		

## Kent Core Requirements

Kent Core Composition (KCOMP)	3
Kent Core Mathematics and Critical Reasoning (KMCR)	3
Kent Core Humanities and Fine Arts (KHUM/KFA)	3
Kent Core Social Sciences (KSS)	3
Kent Core Basic Sciences (KBS/KLAB)	3
<b>Total Credit Hours:</b>	<b>15</b>

## Program Requirements

### Major Requirements

Code	Title	Credit Hours
<b>Major Requirements (courses count in major GPA; min C grade required in all courses)</b>		
NRST 10010	THERAPEUTIC USE OF SELF	1
NRST 20205	PSYCHOSOCIAL SELF CARE DEFICITS	3
NRST 20206	NURSING AGENCY II	5
NRST 20208	NURSING AGENCY III	6
NRST 20209	MATERNAL/NEWBORN DEVELOPMENT SELF-CARE	2
NRST 20210	CHILD AND FAMILY DEVELOPMENT SELF-CARE	2
<b>Additional Requirements (courses do not count in major GPA; min C grade required in all courses)</b>		
BSCI 11010	FOUNDATIONAL ANATOMY AND PHYSIOLOGY I (KBS) (KLAB) <sup>1</sup>	3
BSCI 11020	FOUNDATIONAL ANATOMY AND PHYSIOLOGY II (KBS) (KLAB) <sup>1</sup>	3
BSCI 20021	BASIC MICROBIOLOGY <sup>1</sup>	3-4
or BSCI 30171	GENERAL MICROBIOLOGY	
CHEM 10050	FUNDAMENTALS OF CHEMISTRY (KBS) <sup>2</sup>	3
or CHEM 10055	MOLECULES OF LIFE (KBS)	
or CHEM 10060	GENERAL CHEMISTRY I (KBS)	
NUTR 23511	SCIENCE OF HUMAN NUTRITION (KBS) <sup>1</sup>	3
or NUTR 33512	INTERMEDIATE NUTRITION SCIENCE	
PSYC 11762	GENERAL PSYCHOLOGY (DIVD) (KSS)	3
SOC 12050	INTRODUCTION TO SOCIOLOGY (DIVD) (KSS)	3
UC 10097	DESTINATION KENT STATE: FIRST YEAR EXPERIENCE	1
Kent Core Composition <sup>3</sup>		6
Kent Core Mathematics and Critical Reasoning		3
Kent Core Humanities and Fine Arts		3
<b>Concentrations</b>		
Choose from the following:		14

<b>Additional Requirements for Students Not Declaring a Concentration</b>	
LPN to ADN Concentration	
Paramedic to ADN Concentration	
Minimum Total Credit Hours:	67

- <sup>1</sup> Students who have successfully completed BSCI 21010 and BSCI 21020 or (ATTR 25057 and ATTR 25058) or (EXSC 25057 and EXSC 25058) may use those courses in place of BSCI 11010 and BSCI 11020 and BSCI 20021 (or BSCI 30171). Students who have successfully completed NUTR 43521 may use it in place of NUTR 23511 or (NUTR 33512).
- <sup>2</sup> CHEM 10055 is recommended.
- <sup>3</sup> 3 credit hours are required for Kent Core (University Requirements). This program requires a total of 6 credit hours to earn the degree.

### Additional requirements for students not declaring a concentration

Code	Title	Credit Hours
<b>Major Requirements (courses count in major GPA; min C grade required in all courses)</b>		
NRST 10001	FOUNDATIONS OF NURSING AGENCY	5
NRST 10003	NURSING AGENCY I	6
NURS 20950	HUMAN GROWTH AND DEVELOPMENT FOR HEALTH PROFESSIONALS <sup>1</sup>	3
Minimum Total Credit Hours:		14

- <sup>1</sup> NURS 20950 must be completed within the past five years prior to admission to the program and a minimum C grade must be earned.

### LPN to ADN Concentration Requirements

Code	Title	Credit Hours
<b>Concentration Requirements (courses count in major GPA)</b>		
NRST 10006	LPN TO ASSOCIATE DEGREE IN NURSING TRANSITION (min C grade)	3
Upon successful completion of NRST 10006, students are awarded transfer credit hours (no grade) for NRST 10001 and NRST 10003.		11
Minimum Total Credit Hours:		14

### Paramedic to ADN Concentrations Requirements

Code	Title	Credit Hours
<b>Concentration Requirements (courses count in major GPA)</b>		
NRST 10008	PARAMEDIC TO ASSOCIATE DEGREE IN NURSING TRANSITION (min C grade)	5
NURS 20950	HUMAN GROWTH AND DEVELOPMENT FOR HEALTH PROFESSIONALS (min C grade) <sup>1</sup>	3
Upon successful completion of NRST 10008, students are awarded transfer credit hours (no grade) for NRST 10003.		6
Minimum Total Credit Hours:		14

- <sup>1</sup> NURS 20950 must be completed within the past five years prior to admission to the program and a minimum C grade must be earned.

## Progression Requirements

To be able to register for Nursing Technology (NRST) courses, students must be accepted to technical study. Acceptance is a selective process. Criteria for acceptance are the following:

- Minimum 2.700 overall GPA
- Minimum C grade in high school or college-level courses in algebra, biology and chemistry
- Completion of developmental coursework prescribed by placement testing

A NSRT course may be repeated one (1) time for a total of two attempts, but the student may only apply for reentry to the ADN program one time.

## Graduation Requirements

Minimum Major GPA	Minimum Overall GPA
2.000	2.000

- Minimum C grade in theory and a designation of 'passing' for performance in the clinical area (if applicable) must be achieved for each nursing course.
- Minimum C grade in all required courses, including developmental courses.

## Roadmaps

- Nursing Major (No Concentration)
- LPN to ADN Concentration
- Paramedic to ADN Concentration

### NURSING MAJOR (NO CONCENTRATION)

This roadmap is a recommended semester-by-semester plan of study for this major. However, courses designated as critical (!) must be completed in the semester listed to ensure a timely graduation.

Semester One		Credits
BSCI 11010	FOUNDATIONAL ANATOMY AND PHYSIOLOGY I (KBS) (KLAB)	3
CHEM 10050 or CHEM 10055 or CHEM 10060	FUNDAMENTALS OF CHEMISTRY (KBS) or MOLECULES OF LIFE (KBS) or GENERAL CHEMISTRY I (KBS)	3
! NRST 10001	FOUNDATIONS OF NURSING AGENCY	5
PSYC 11762	GENERAL PSYCHOLOGY (DIVD) (KSS)	3
UC 10097	DESTINATION KENT STATE: FIRST YEAR EXPERIENCE	1
Kent Core Mathematics and Critical Reasoning (KMCR) course		3
Credit Hours		18
Semester Two		
BSCI 11020	FOUNDATIONAL ANATOMY AND PHYSIOLOGY II (KBS) (KLAB)	3
BSCI 20021 or BSCI 30171	BASIC MICROBIOLOGY or GENERAL MICROBIOLOGY	3-4
! NRST 10003	NURSING AGENCY I	6
! NRST 10010	THERAPEUTIC USE OF SELF	1
NUTR 23511 or NUTR 33512	SCIENCE OF HUMAN NUTRITION (KBS) or INTERMEDIATE NUTRITION SCIENCE	3
Credit Hours		16
Semester Three		
! NRST 20205	PSYCHOSOCIAL SELF CARE DEFICITS	3
! NRST 20206	NURSING AGENCY II	5
! NURS 20950	HUMAN GROWTH AND DEVELOPMENT FOR HEALTH PROFESSIONALS	3
Kent Core Composition (KCMP) course		3
Kent Core Humanities and Fine Arts (KHUM/KFA)		3
Credit Hours		17
Semester Four		
! NRST 20208	NURSING AGENCY III	6
! NRST 20209	MATERNAL/NEWBORN DEVELOPMENT SELF-CARE	2
! NRST 20210	CHILD AND FAMILY DEVELOPMENT SELF-CARE	2
SOC 12050	INTRODUCTION TO SOCIOLOGY (DIVD) (KSS)	3
Kent Core Composition (KCMP)		3
Credit Hours		16
Minimum Total Credit Hours:		67



## LPN to ADN Concentration

This roadmap is a recommended semester-by-semester plan of study for this major. However, courses designated as critical (!) must be completed in the semester listed to ensure a timely graduation.

<b>Semester One</b>		<b>Credits</b>
BSCI 11010	FOUNDATIONAL ANATOMY AND PHYSIOLOGY I (KBS) (KLAB)	3
CHEM 10050 or CHEM 10055 or CHEM 10060	FUNDAMENTALS OF CHEMISTRY (KBS) or MOLECULES OF LIFE (KBS) or GENERAL CHEMISTRY I (KBS)	3
PSYC 11762	GENERAL PSYCHOLOGY (DIVD) (KSS)	3
UC 10097	DESTINATION KENT STATE: FIRST YEAR EXPERIENCE	1
Credit Hours		10
<b>Semester Two</b>		
BSCI 11020	FOUNDATIONAL ANATOMY AND PHYSIOLOGY II (KBS) (KLAB)	3
BSCI 20021 or BSCI 30171	BASIC MICROBIOLOGY or GENERAL MICROBIOLOGY	3-4
Kent Core Mathematics and Critical Reasoning (KMCR) course		3
Kent Core Composition (KCMP) course		3
Credit Hours		12
<b>First Summer Term</b>		
! NRST 10006	LPN TO ASSOCIATE DEGREE IN NURSING TRANSITION	3
! NRST 10010	THERAPEUTIC USE OF SELF	1
NUTR 23511 or NUTR 33512	SCIENCE OF HUMAN NUTRITION (KBS) or INTERMEDIATE NUTRITION SCIENCE	3
!	Upon successful completion of NRST 10006, students are awarded transfer credit hours (no grade) for NRST 10001 and NRST 10003.	11
Credit Hours		18
<b>Semester Three</b>		
! NRST 20205	PSYCHOSOCIAL SELF CARE DEFICITS	3
! NRST 20206	NURSING AGENCY II	5
Kent Core Humanities and Fine Arts (KHUM/KFA)		3
Credit Hours		11
<b>Semester Four</b>		
! NRST 20208	NURSING AGENCY III	6
! NRST 20209	MATERNAL/NEWBORN DEVELOPMENT SELF-CARE	2
! NRST 20210	CHILD AND FAMILY DEVELOPMENT SELF-CARE	2
SOC 12050	INTRODUCTION TO SOCIOLOGY (DIVD) (KSS)	3
Kent Core Composition (KCMP)		3
Credit Hours		16
Minimum Total Credit Hours:		67

## Paramedic to ADN Concentration

This roadmap is a recommended semester-by-semester plan of study for this major. However, courses designated as critical (!) must be completed in the semester listed to ensure a timely graduation.

Semester One		Credits
BSCI 11010	FOUNDATIONAL ANATOMY AND PHYSIOLOGY I (KBS) (KLAB)	3
CHEM 10050 or CHEM 10055 or CHEM 10060	FUNDAMENTALS OF CHEMISTRY (KBS) or MOLECULES OF LIFE (KBS) or GENERAL CHEMISTRY I (KBS)	3
PSYC 11762	GENERAL PSYCHOLOGY (DIVD) (KSS)	3
UC 10097	DESTINATION KENT STATE: FIRST YEAR EXPERIENCE	1
Credit Hours		10
Semester Two		
BSCI 11020	FOUNDATIONAL ANATOMY AND PHYSIOLOGY II (KBS) (KLAB)	3
BSCI 20021 or BSCI 30171	BASIC MICROBIOLOGY or GENERAL MICROBIOLOGY	3-4
Kent Core Mathematics and Critical Reasoning (KMCR) course		3
Kent Core Composition (KCMP) course		3
Credit Hours		12
First Summer Term		
! NRST 10008	PARAMEDIC TO ASSOCIATE DEGREE IN NURSING TRANSITION	5
! NRST 10010	THERAPEUTIC USE OF SELF	1
NUTR 23511 or NUTR 33512	SCIENCE OF HUMAN NUTRITION (KBS) or INTERMEDIATE NUTRITION SCIENCE	3
!	Upon successful completion of NRST 10008, students are awarded transfer credit hours (no grade) for NRST 10003.	6
Credit Hours		15
Semester Three		
! NRST 20205	PSYCHOSOCIAL SELF CARE DEFICITS	3
! NRST 20206	NURSING AGENCY II	5
NURS 20950	HUMAN GROWTH AND DEVELOPMENT FOR HEALTH PROFESSIONALS	3
Kent Core Humanities and Fine Arts (KHUM/KFA)		3
Credit Hours		14
Semester Four		
! NRST 20208	NURSING AGENCY III	6
! NRST 20209	MATERNAL/NEWBORN DEVELOPMENT SELF-CARE	2
! NRST 20210	CHILD AND FAMILY DEVELOPMENT SELF-CARE	2
SOC 12050	INTRODUCTION TO SOCIOLOGY (DIVD) (KSS)	3
Kent Core Composition (KCMP)		3
Credit Hours		16
Minimum Total Credit Hours:		67

## Occupational Therapy Assistant Technology - A.A.S.

College of Applied and Technical Studies

cats@kent.edu

www.kent.edu/cats

## Description

The Associate of Applied Science degree in Occupational Therapy Assistant Technology prepares students to be occupational therapy assistants who work under the direction of an occupational therapist to provide rehabilitative services to persons with mental, physical, emotional or developmental disabilities.

Graduates are eligible to sit for the national certification examination for occupational therapy assistants administered by the National Board for Certification in Occupational Therapy.

### Fully Offered At:

- Ashtabula Campus (Hybrid- online/on-ground)
- East Liverpool Campus (on-ground only)

## Accreditation

The A.A.S. degree in Occupational Therapy Assistant Technology is accredited by the Accreditation Council for Occupational Therapy Education (ACOTE) of the American Occupational Therapy Association (AOTA).

## Admission Requirements

The university affirmatively strives to provide educational opportunities and access to students with varied backgrounds, those with special talents and adult students who graduated from high school three or more years ago.

Kent State campuses at Ashtabula, East Liverpool, Geauga, Salem, Stark, Trumbull and Tuscarawas, and the Twinsburg Academic Center, have open enrollment admission for students who hold a high school diploma, GED or equivalent.

For more information on admissions, contact the Regional Campuses admissions offices.

## Program Learning Outcomes

Graduates of this program will be able to:

1. Demonstrate professional behaviors when interacting with clients, peers and other professionals when providing occupational therapy services.
2. Demonstrate clinical reasoning by integrating clinical experiences with evidence-based practice and personal experience to provide best-practice occupational therapy services.
3. Demonstrate support for the client's desired occupational roles and participation in occupations through a creative, holistic approach.
4. Collaborate with inter-professional team members to provide distinct valued services to each client based on individual needs.
5. Demonstrate support for at-risk individuals, groups and populations who are in the community to identify resources and opportunities for improving engagement in occupations.

## University Requirements

All students in an applied or technical associate degree program at Kent State University must complete the following university requirements for graduation.

**NOTE:** University requirements may be fulfilled in this program by specific course requirements, please see Program Requirements for details.

Code	Title	Credit Hours
	Destination Kent State: First Year Experience	1
	Course is not required for students with 25 transfer credits, excluding College Credit Plus, or age 21+ at time of admission.	
	Kent Core (see table below)	15
	<b>Total Credit Hour Requirement</b>	<b>60</b>
	Some associate degrees require students to complete more than 60 credit hours.	

## Kent Core Requirements

Kent Core Composition (KCOMP)	3
Kent Core Mathematics and Critical Reasoning (KMCR)	3
Kent Core Humanities and Fine Arts (KHUM/KFA)	3
Kent Core Social Sciences (KSS)	3
Kent Core Basic Sciences (KBS/KLAB)	3
<b>Total Credit Hours:</b>	<b>15</b>

## Program Requirements

### Major Requirements

Code	Title	Credit Hours
<b>Major Requirements (courses count in major GPA)</b>		
OCAT 10000	FOUNDATIONS IN OCCUPATIONAL THERAPY (min C grade)	2
OCAT 10001	OCCUPATIONAL THERAPY PRACTICE SKILLS II (min C grade)	3
OCAT 10002	OCCUPATIONAL PERFORMANCE IN PSYCHOSOCIAL HEALTH (min C grade)	4
OCAT 10003	OCCUPATIONAL THERAPY PRACTICE SKILLS LABORATORY (min C grade)	1
OCAT 10092	THERAPEUTIC TECHNIQUES - FIELDWORK 1A (ELR)	1
OCAT 20000	OCCUPATIONAL PERFORMANCE IN PHYSICAL HEALTH (min C grade)	4
OCAT 20001	OCCUPATIONAL THERAPY MANAGEMENT AND LEADERSHIP SKILLS (min C grade)	2
OCAT 20003	OCCUPATIONAL THERAPY PRACTICE SKILLS III (min C grade)	3
OCAT 20004	OCCUPATIONAL PERFORMANCE IN PEDIATRIC POPULATIONS (min C grade)	3
OCAT 20006	OCCUPATIONAL PERFORMANCE IN PHYSICAL HEALTH II (min C grade)	3
OCAT 20092	THERAPEUTIC TECHNIQUES - FIELDWORK 1B (ELR)	1
OCAT 20192	CLINICAL APPLICATIONS I (ELR)	4
OCAT 20292	CLINICAL APPLICATIONS II (ELR)	4
<b>Additional Requirements (courses do not count in major GPA; min C grade required in all courses)</b>		
AHS 12005	CONCEPTS IN LIFESPAN DEVELOPMENT	3

or NURS 20950	HUMAN GROWTH AND DEVELOPMENT FOR HEALTH PROFESSIONALS	
AHS 12010	PROFESSIONALISM IN HEALTHCARE	1
AHS 22002	CLINICAL KINESIOLOGY	3
AHS 22003	CLINICAL KINESIOLOGY LABORATORY	1
BSCI 11010	FOUNDATIONAL ANATOMY AND PHYSIOLOGY I (KBS) (KLAB) <sup>2</sup>	3
BSCI 11020	FOUNDATIONAL ANATOMY AND PHYSIOLOGY II (KBS) (KLAB) <sup>2</sup>	3
PSYC 11762	GENERAL PSYCHOLOGY (DIVD) (KSS)	3
PSYC 21211	PSYCHOLOGY OF EVERYDAY LIFE (DIVD) (KSS)	3
or PSYC 40111	ABNORMAL PSYCHOLOGY	
UC 10097	DESTINATION KENT STATE: FIRST YEAR EXPERIENCE	1
Kent Core Composition		3
Kent Core Mathematics and Critical Reasoning		3
Kent Core Humanities and Fine Arts		3
<b>Minimum Total Credit Hours:</b>		<b>65</b>

<sup>1</sup> Students who have successfully completed ATTR 25057 and ATTR 25058 (or EXSC 25057 and EXSC 25058 or BSCI 21010 and BSCI 21020) may use those courses in place of BSCI 11010 and BSCI 11020.

## Progression Requirements

To be able to register for occupational therapy assistant technology (OCAT) courses, students must be accepted to technical study. Acceptance to technical study is a selective process. Criteria for acceptance are the following:

- Completion of prescribed developmental coursework
- Completion of high school or college-level courses in algebra and general biology
- Minimum 16 hours of volunteer time in two different occupational therapy settings
- Minimum 2.700 overall GPA

## Graduation Requirements

Minimum Major GPA	Minimum Overall GPA
2.000	2.000

- Clinical education must be successfully completed within 18 months of the didactic coursework.
- Portions of the program's courses incorporate the use of technology and/or may be offered in a distance learning format. Under certain circumstances, students are required to attend clinicals on days outside of the academic calendar. These circumstances may occur on scheduled or unscheduled campus closures or on days when classes are cancelled, but the campus remains open. Examples include certain holidays, spring recess and/or prior to the start of semesters. Students will be notified in advance of these dates.

## Roadmap

This roadmap is a recommended semester-by-semester plan of study for this major. However, courses designated as critical (!) must be completed in the semester listed to ensure a timely graduation.

Semester One		Credits
!	BSCI 11010 FOUNDATIONAL ANATOMY AND PHYSIOLOGY I (KBS) (KLAB)	3
Credit Hours		3
Semester Two		
	AHS 12010 PROFESSIONALISM IN HEALTHCARE	1
!	BSCI 11020 FOUNDATIONAL ANATOMY AND PHYSIOLOGY II (KBS) (KLAB)	3
!	OCAT 10000 FOUNDATIONS IN OCCUPATIONAL THERAPY	2
!	OCAT 10003 OCCUPATIONAL THERAPY PRACTICE SKILLS LABORATORY	1
	PSYC 11762 GENERAL PSYCHOLOGY (DIVD) (KSS)	3
	UC 10097 DESTINATION KENT STATE: FIRST YEAR EXPERIENCE	1
Kent Core Requirement		3
Credit Hours		14
Semester Three		
	AHS 12005 CONCEPTS IN LIFESPAN DEVELOPMENT or HUMAN GROWTH AND DEVELOPMENT FOR HEALTH PROFESSIONALS or NURS 20950	3
!	AHS 22002 CLINICAL KINESIOLOGY	3
!	AHS 22003 CLINICAL KINESIOLOGY LABORATORY	1
!	OCAT 10001 OCCUPATIONAL THERAPY PRACTICE SKILLS II	3
!	OCAT 10002 OCCUPATIONAL PERFORMANCE IN PSYCHOSOCIAL HEALTH	4
!	OCAT 10092 THERAPEUTIC TECHNIQUES - FIELDWORK 1A (ELR)	1
	PSYC 21211 PSYCHOLOGY OF EVERYDAY LIFE (DIVD) (KSS) or ABNORMAL PSYCHOLOGY or PSYC 40111	3
Credit Hours		18
Semester Four		
!	OCAT 20000 OCCUPATIONAL PERFORMANCE IN PHYSICAL HEALTH	4
!	OCAT 20003 OCCUPATIONAL THERAPY PRACTICE SKILLS III	3
!	OCAT 20092 THERAPEUTIC TECHNIQUES - FIELDWORK 1B (ELR)	1
Credit Hours		8
Semester Five		
	OCAT 20001 OCCUPATIONAL THERAPY MANAGEMENT AND LEADERSHIP SKILLS	2
!	OCAT 20004 OCCUPATIONAL PERFORMANCE IN PEDIATRIC POPULATIONS	3
!	OCAT 20006 OCCUPATIONAL PERFORMANCE IN PHYSICAL HEALTH II	3
Kent Core Requirement		3
Kent Core Requirement		3
Credit Hours		14
Semester Six		
!	OCAT 20192 CLINICAL APPLICATIONS I (ELR)	4
!	OCAT 20292 CLINICAL APPLICATIONS II (ELR)	4
Credit Hours		8
Minimum Total Credit Hours:		65

## Office Software Applications - Undergraduate Certificate

### College of Applied and Technical Studies

cats@kent.edu  
www.kent.edu/cats

### Description

The Office Software Application undergraduate certificate provides a solid background in Microsoft Office software applications to assist individuals in becoming productive office workers. The program enables students to establish or update skills using the latest version of software that is commonly used in offices today.

### Fully Offered At:

- Ashtabula Campus
- Tuscarawas Campus

### Admission Requirements

The university affirmatively strives to provide educational opportunities and access to students with varied backgrounds, those with special talents and adult students who graduated from high school three or more years ago.

Kent State campuses at Ashtabula, East Liverpool, Geauga, Salem, Stark, Trumbull and Tuscarawas, and the Twinsburg Academic Center, have open enrollment admission for students who hold a high school diploma, GED or equivalent.

For more information on admissions, contact the Regional Campuses admissions offices.

### Program Requirements

#### Certificate Requirements

Code	Title	Credit Hours
<b>Certificate Requirements</b>		
IT 21010	WORKGROUP PRODUCTIVITY SOFTWARE	3
OTEC 16620	WORD PROCESSING I	3
OTEC 16621	WORD PROCESSING II	3
OTEC 16625	BUSINESS PRESENTATIONS	3
OTEC 16639	DATABASE APPLICATIONS	3
OTEC 26611	SPREADSHEET APPLICATIONS	3
OTEC 26640	CURRENT TECHNOLOGIES	3
Minimum Total Credit Hours:		21

### Graduation Requirements

Minimum Certificate GPA	Minimum Overall GPA
2.000	2.000

- Students must complete a minimum of 15 credit hours of the certificate curriculum at Kent State University.

- Maximum 6 credit hours of transfer credits may be used as long as letter grades appear on original transcripts.

## Office Technology - A.A.B.

### College of Applied and Technical Studies

cats@kent.edu  
www.kent.edu/cats

## Description

The Associate of Applied Business degree in Office Technology focuses primarily on front-end office functions, where employees use technology for daily job responsibilities that may include producing business documents, designing presentations, generating data reports and creating financial spreadsheets. Students use the most current versions of business software applications and learn the fundamentals of accounting, automated records management, business communications and resource management.

Graduates gain a wide variety of computer application skills needed for gainful employment in office administrative support positions, including office assistant, accounting clerk, office manager, administrative coordinator, executive administrative and administrative assistant—technology.

Office Technology major includes the following option concentration:

- **Medical Billing/ Coding Office** concentration provides a basic understanding of software, medical terminology, billing/coding and procedures used in medical settings such as hospitals, clinics, doctors' offices and outsourcing facilities involved with providing billing operations.

### Fully Offered At:

- Online
- Ashtabula Campus
- Salem Campus
- Trumbull Campus
- Tuscarawas Campus

## Admission Requirements

The university affirmatively strives to provide educational opportunities and access to students with varied backgrounds, those with special talents and adult students who graduated from high school three or more years ago.

Kent State campuses at Ashtabula, East Liverpool, Geauga, Salem, Stark, Trumbull and Tuscarawas, and the Twinsburg Academic Center, have open enrollment admission for students who hold a high school diploma, GED or equivalent.

For more information on admissions, contact the Regional Campuses admissions offices.

## Program Learning Outcomes

Graduates of this program will be able to:

1. Organize, manage and analyze critical business data using spreadsheet and database software.
2. Create state-of-the-art documents, using design guidelines, terminology and basic publication concepts of industry standards.
3. Import and integrate data from their original software to another for upgraded usage.
4. Determine the most appropriate software to use in creating specific business documents that meet industry standards for mailing.
5. Contrast, compare and adapt to forces that influence emerging management practices.
6. Manage the people, productivity, technology and environment within the administrative function of an organization.
7. Integrate coursework with realistic office settings, emphasizing the total quality management environment.
8. Use multiple channels used in business to communicate with others
9. Participate in the activities of various businesses to determine the variety of job responsibilities assigned to employees in their profession; develop job search strategies for use in their outreach activities.
10. Track and provide administrative support in managing projects, using software designed for this specific purpose.
11. Examine, describe and exercise various leadership, decision-making and motivational skills.

## University Requirements

All students in an applied or technical associate degree program at Kent State University must complete the following university requirements for graduation.

**NOTE:** University requirements may be fulfilled in this program by specific course requirements, please see Program Requirements for details.

Code	Title	Credit Hours
	Destination Kent State: First Year Experience	1
	Course is not required for students with 25 transfer credits, excluding College Credit Plus, or age 21+ at time of admission.	
	Kent Core (see table below)	15
	<b>Total Credit Hour Requirement</b>	<b>60</b>

Some associate degrees require students to complete more than 60 credit hours.

## Kent Core Requirements

Kent Core Composition (KCMP)	3
Kent Core Mathematics and Critical Reasoning (KMCR)	3
Kent Core Humanities and Fine Arts (KHUM/KFA)	3
Kent Core Social Sciences (KSS)	3
Kent Core Basic Sciences (KBS/KLAB)	3
<b>Total Credit Hours:</b>	<b>15</b>



# Program Requirements

## Major Requirements

Code	Title	Credit Hours
<b>Major Requirements (courses count in major GPA)</b>		
OTEC 16620	WORD PROCESSING I	3
OTEC 16639	DATABASE APPLICATIONS	3
OTEC 26611	SPREADSHEET APPLICATIONS	3
OTEC 26635	ADMINISTRATIVE RESOURCE MANAGEMENT	3
OTEC 26640	CURRENT TECHNOLOGIES	3
OTEC 26691	SEMINAR FOR ADMINISTRATIVE PROFESSIONALS	2-3
or OTEC 26692	INTERNSHIP FOR ADMINISTRATIVE PROFESSIONALS (ELR)	
<b>Additional Requirements (courses do not count in major GPA)</b>		
ACTT 11000	ACCOUNTING I: FINANCIAL	4
IT 21010	WORKGROUP PRODUCTIVITY SOFTWARE	3
UC 10097	DESTINATION KENT STATE: FIRST YEAR EXPERIENCE	1
Applied Electives, choose from the following:		9
BMRT 11000	INTRODUCTION TO BUSINESS	
BMRT 11009	INTRODUCTION TO MANAGEMENT TECHNOLOGY	
BMRT 21000	BUSINESS LAW AND ETHICS I	
BMRT 31006	HUMAN RESOURCE MANAGEMENT	
IT 11000	INTRODUCTION TO OFFICE PRODUCTIVITY APPS <sup>1</sup>	
IT 11004	SURVEY OF INFORMATION TECHNOLOGY	
IT 11005	INTRODUCTION TO OPERATING SYSTEMS AND NETWORKING TECHNOLOGY	
IT 11006	INTRODUCTION TO WEB SITE TECHNOLOGY	
OTEC 16640	ADVANCED DATABASE APPLICATIONS	
OTEC 16680	COMPUTER KEYBOARDING	
OTEC 26623	DESKTOP PUBLISHING II	
OTEC 26636	PROJECT MANAGEMENT FOR ADMINISTRATIVE PROFESSIONALS	
OTEC 26638	BUSINESS COMMUNICATIONS	
OTEC 26695	SPECIAL TOPICS IN INFORMATION TECHNOLOGY FOR ADMINISTRATIVE PROFESSIONALS	
Any Office Technology (OTEC) Course <sup>2</sup>		
Kent Core Composition		3
Kent Core Mathematics and Critical Reasoning		3
Kent Core Humanities and Fine Arts		3
Kent Core Social Sciences		3
Kent Core Basic Sciences		3
<b>Additional Requirements or Concentrations</b>		
Choose from the following:		12
Additional Requirements for Students Not Declaring a Concentration		
Medical Billing/Coding Office		
Minimum Total Credit Hours:		61

<sup>1</sup> IT 11000 may count toward applied electives if taken before or with any other Information Technology (IT) or Office Technology (OTEC) course.

<sup>2</sup> Students should work with the coordinator of the program when choosing electives.

## ADDITIONAL REQUIREMENTS FOR STUDENTS NOT DECLARING A CONCENTRATION

Code	Title	Credit Hours
<b>Concentration Requirements (courses count in major GPA)</b>		
OTEC 16621	WORD PROCESSING II	3
OTEC 16625	BUSINESS PRESENTATIONS	3
OTEC 16638	GOOGLE APPLICATIONS FOR ADMINISTRATIVE PROFESSIONALS	3
OTEC 26622	DESKTOP PUBLISHING I	3
Minimum Total Credit Hours:		12

## Medical Billing/Coding Office Concentration requirements

Code	Title	Credit Hours
<b>Concentration Requirements (courses count in major GPA)</b>		
HED 14020	MEDICAL TERMINOLOGY	3
OTEC 26650	MEDICAL BILLING PROCEDURES	3
OTEC 26655	ICD CODING	3
OTEC 26656	CPT CODING	3
Minimum Total Credit Hours:		12

## Graduation Requirements

Minimum Major GPA	Minimum Overall GPA
2.000	2.000

## Roadmap

- Office Technology (No Concentration)
- Medical Billing/Coding office

This roadmap is a recommended semester-by-semester plan of study for this major. However, courses designated as critical (!) must be completed in the semester listed to ensure a timely graduation.

### Office Technology (no concentration)

This roadmap is a recommended semester-by-semester plan of study for this major. However, courses designated as critical (!) must be completed in the semester listed to ensure a timely graduation.

Semester One		Credits
OTEC 16620	WORD PROCESSING I	3
OTEC 16621	WORD PROCESSING II	3
OTEC 26611	SPREADSHEET APPLICATIONS	3
UC 10097	DESTINATION KENT STATE: FIRST YEAR EXPERIENCE	1
Kent Core Requirement		3
Kent Core Requirement		3
Credit Hours		16
Semester Two		Credits
OTEC 26640	CURRENT TECHNOLOGIES	3
OTEC 26635	ADMINISTRATIVE RESOURCE MANAGEMENT	3
Applied Elective		3
Kent Core Requirement		3
Kent Core Requirement		3
Credit Hours		15

**Semester Three**

OTEC 16638	GOOGLE APPLICATIONS FOR ADMINISTRATIVE PROFESSIONALS	3
OTEC 16639	DATABASE APPLICATIONS	3
OTEC 26622	DESKTOP PUBLISHING I	3
OTEC 26691 or OTEC 26692	SEMINAR FOR ADMINISTRATIVE PROFESSIONALS or INTERNSHIP FOR ADMINISTRATIVE PROFESSIONALS (ELR)	2-3
Kent Core Requirement		3
Credit Hours		14

**Semester Four**

ACTT 11000	ACCOUNTING I: FINANCIAL	4
IT 21010	WORKGROUP PRODUCTIVITY SOFTWARE	3
OTEC 16625	BUSINESS PRESENTATIONS	3
Applied Electives		6
Credit Hours		16
Minimum Total Credit Hours:		61

**Medical Billing/Coding Office**

This roadmap is a recommended semester-by-semester plan of study for this major. However, courses designated as critical (!) must be completed in the semester listed to ensure a timely graduation.

**Semester One**

		Credits
HED 14020	MEDICAL TERMINOLOGY	3
OTEC 16620	WORD PROCESSING I	3
OTEC 26611	SPREADSHEET APPLICATIONS	3
UC 10097	DESTINATION KENT STATE: FIRST YEAR EXPERIENCE	1
Kent Core Requirement		3
Kent Core Requirement		3
Credit Hours		16

**Semester Two**

OTEC 26635	ADMINISTRATIVE RESOURCE MANAGEMENT	3
OTEC 26640	CURRENT TECHNOLOGIES	3
Applied Elective		3
Kent Core Requirement		3
Kent Core Requirement		3
Credit Hours		15

**Semester Three**

OTEC 16639	DATABASE APPLICATIONS	3
OTEC 26655	ICD CODING	3
OTEC 26656	CPT CODING	3
OTEC 26691 or OTEC 26692	SEMINAR FOR ADMINISTRATIVE PROFESSIONALS or INTERNSHIP FOR ADMINISTRATIVE PROFESSIONALS (ELR)	2-3
Kent Core Requirement		3
Credit Hours		14

**Semester Four**

ACTT 11000	ACCOUNTING I: FINANCIAL	4
IT 21010	WORKGROUP PRODUCTIVITY SOFTWARE	3
OTEC 26650	MEDICAL BILLING PROCEDURES	3
Applied Electives		6
Credit Hours		16
Minimum Total Credit Hours:		61

# Peace Officers Training Academy - Undergraduate Certificate

**College of Applied and Technical Studies**

cats@kent.edu  
www.kent.edu/cats

## Description

The Peace Officers Training Academy undergraduate certificate prepares students to become law enforcement officers in the state of Ohio. Students pursuing the certificate must be accepted to Kent State's Basic Peace Officer Academy. The certificate's curriculum covers the basics of defensive tactics, firearms, driving, traffic, patrol, civil disorders and first aid. Students learn investigative methods and the fundamentals of policing, the criminal justice system, constitutional law and homeland security.

After successful completion of the certificate and the academy, students are eligible to take the state certification examination for law enforcement. Graduates of the certificate are able to matriculate into the A.A.S. degree in Criminology and Justice at Kent State.

## Fully Offered At:

- Kent Campus
- Trumbull Campus

## Accreditation

The curriculum for the Peace Officers Training Academy undergraduate certificate is approved by the Ohio Attorney General - Ohio Peace Officer Training Commission (OPOTC).

## Admission Requirements

Admission to the certificate is selective. Applicants to the certificate must meet all admission criteria for acceptance into Kent State's Basic Peace Officer Academy. Criteria includes the following:

- Valid driver's license
- High school diploma or GED
- Age 20 or turning age 20 at time of enrollment
- Good physical condition
- No felony or drug convictions or arrests for domestic violence

## Program Learning Outcomes

Graduates of this program will be able to:

1. Identify the components and legal processes of the criminal justice system, and apply basic criminal laws to various situations.
2. Explain the different types of police procedures and their effective uses in law enforcement.
3. Use ethical, analytical and critical-thinking skills toward situations typical to criminal justice settings.
4. Safely and properly conduct a traffic stop and respond to a domestic disturbance, dispatched call or crime in progress.

- Properly carry out comprehensive criminal investigations and write various reports.
- Proficiently provide first aid at the level of a first responder.

## Program Requirements

### Certificate Requirements

Code	Title	Credit Hours
<b>Certificate Requirements</b>		
POTA 11001	PEACE OFFICERS ACADEMY I	6
POTA 11002	PEACE OFFICERS ACADEMY II	5
POTA 11003	PEACE OFFICERS ACADEMY III	6
POTA 11004	PEACE OFFICERS ACADEMY IV	5
Minimum Total Credit Hours:		22

### Graduation Requirements

Minimum Certificate GPA	Minimum Overall GPA
2.000	2.000

- Completion of the Kent State University Basic Peace Officer Academy

## Physical Therapist Assistant Technology - A.A.S.

### College of Applied and Technical Studies

cats@kent.edu

www.kent.edu/cats

### Description

The Associate of Applied Science degree in Physical Therapist Assistant Technology provides students with the knowledge, skills and behaviors necessary to become licensed or certified as a physical therapist assistant, working under the direction and supervision of a physical therapist. Licensure or certification in most states requires graduation from an accredited program, background clearances and passing the National Physical Therapy Examination.

The integrated curriculum includes lecture, laboratory, seminar and practicum courses. Major course content is cumulative and taught in four sequential semesters in a two year cycle. The technical study curriculum requires student to be on campus or in the clinic three to five days per week each term.

The Physical Therapist Assistant Technology major includes the following optional concentration:

- The **Athletic Trainers Transition** concentration is for board-certified athletic trainers and may be completed, at minimum, in 15 months. The concentration adds the skills and knowledge of a physical therapist assistant to the certified athletic trainers knowledge and skill competency. The concentration is offered primarily online, but requires six three-day in person on the Ashtabula Campus to conduct laboratory assignments. In addition, students must complete a minimum 640 hours of clinical education, which, typically, can be arranged anywhere in the country.

### Fully Offered At:

- Online/on-ground (Athletic Trainers Transition concentration only)
- Ashtabula Campus
- East Liverpool Campus (Athletic Trainers Transition concentration not offered)

### Accreditation

The A.A.S. degree in Physical Therapist Assistant Technology is accredited by the Commission on Accreditation in Physical Therapy Education.

### Admission Requirements

The university affirmatively strives to provide educational opportunities and access to students with varied backgrounds, those with special talents and adult students who graduated from high school three or more years ago.

Kent State campuses at Ashtabula, East Liverpool, Geauga, Salem, Stark, Trumbull and Tuscarawas, and the Twinsburg Academic Center, have open enrollment admission for students who hold a high school diploma, GED or equivalent.

For more information on admissions, contact the Regional Campuses admissions offices.

**Admission to the Athletic Trainers Transition concentration:** Applicants must be board-certified athletic trainers.

### Program Learning Outcomes

Graduates of this program will be able to:

- Provide appropriate and effective physical therapy interventions within the plan of care established by a physical therapist.
- Effectively communicate with others, teaching or instructing when appropriate.
- Produce legal and ethical documentation to meet professional expectations and the needs of third party payers.
- Ethically manage fiscal and human resources to provide high-quality, efficient and cost-effective physical therapy services.
- Consistently demonstrate the value-based behaviors of a physical therapy assistant; altruism, caring and compassion, continuing competence, duty, integrity, physical therapist/physical therapy assistant collaboration, responsibility and social responsibility.

### University Requirements

All students in an applied or technical associate degree program at Kent State University must complete the following university requirements for graduation.

**NOTE:** University requirements may be fulfilled in this program by specific course requirements, please see Program Requirements for details.

Code	Title	Credit Hours
Destination Kent State: First Year Experience		1
Course is not required for students with 25 transfer credits, excluding College Credit Plus, or age 21+ at time of admission.		
Kent Core (see table below)		15

Total Credit Hour Requirement	60
Some associate degrees require students to complete more than 60 credit hours.	

## Kent Core Requirements

Kent Core Composition (KCOMP)	3
Kent Core Mathematics and Critical Reasoning (KMCR)	3
Kent Core Humanities and Fine Arts (KHUM/KFA)	3
Kent Core Social Sciences (KSS)	3
Kent Core Basic Sciences (KBS/KLAB)	3
<b>Total Credit Hours:</b>	<b>15</b>

## Program Requirements

### Major Requirements

Code	Title	Credit Hours
<b>Major Requirements (courses count in major GPA)</b>		
PTST 10000	INTRODUCTION TO PHYSICAL THERAPIST ASSISTANT (min C grade)	1
PTST 10001	PRINCIPLES OF PATIENT CARE IN PHYSICAL THERAPY (min C grade) <sup>1</sup>	4
PTST 10003	CLINICAL CONDITIONS I (min C grade)	2
PTST 11005	PHYSICAL THERAPY PRACTICE I (min C grade)	2
PTST 11092	CLINICAL EDUCATION I (ELR)	1
PTST 20003	CLINICAL CONDITIONS II (min C grade) <sup>2</sup>	2
PTST 20004	PHYSICAL THERAPY PROCEDURES II (min C grade) <sup>2</sup>	4
PTST 20006	PHYSICAL REHABILITATION PROCEDURES (min C grade) <sup>1</sup>	4
PTST 20008	CLINICAL CONDITIONS III (min C grade)	2
PTST 22005	PHYSICAL THERAPY PRACTICE II (min C grade)	2
PTST 22007	PHYSICAL THERAPY PRACTICE III (min C grade)	2
PTST 22092	CLINICAL EDUCATION PRACTICUM II (ELR)	2
PTST 23092	CLINICAL EDUCATION PRACTICUM III (ELR)	2
<b>Additional Requirements (courses do not count in major GPA; min C grade required in all courses)</b>		
AHS 12005	CONCEPTS IN LIFESPAN DEVELOPMENT <sup>3</sup>	3
AHS 12010	PROFESSIONALISM IN HEALTHCARE	1
AHS 24010	MEDICAL TERMINOLOGY	1-3
or HED 14020	MEDICAL TERMINOLOGY	
PSYC 11762	GENERAL PSYCHOLOGY (DIVD) (KSS) <sup>4</sup>	3
UC 10097	DESTINATION KENT STATE: FIRST YEAR EXPERIENCE <sup>5</sup>	1
Kent Core Composition		3
Kent Core Mathematics and Critical Reasoning		3
Kent Core Humanities and Fine Arts		3
Kent Core Social Sciences <sup>4</sup>		3
<b>Additional Requirements or Concentration</b>		
Choose from the following:		14
Additional Requirements for Students Not Declaring a Concentration		
Athletic Trainers Transition Concentration		
Minimum Total Credit Hours:		65

- <sup>1</sup> For PTST 10001 and PTST 20006, students in the Athletic Trainers Transition concentration will be required to complete two three-day laboratory weekends on the Ashtabula Campus
- <sup>2</sup> Students in the Athletic Trainers Transition concentration will earn transfer credit (no grade) for PTST 20003 and PTST 20004 after completing PTST 10010 with minimum C grade.
- <sup>3</sup> Students who have successfully completed NURS 20950 may use it in place of AHS 12005.
- <sup>4</sup> 3 credit hours are required for Kent Core (University Requirements). This program requires a total of 6 credit hours to earn the degree.
- <sup>5</sup> Course is waived for students declared in the Athletic Trainers Transition concentration

## Additional Requirements for Students Not Declaring a Concentration

Code	Title	Credit Hours
<b>Major Requirements (courses count in major GPA; min C grade required in all courses)</b>		
PTST 10004	PHYSICAL THERAPY PROCEDURES I	4
<b>Additional Requirements (courses do not count in major GPA; min C grade required in all courses)</b>		
AHS 22002	CLINICAL KINESIOLOGY	3
AHS 22003	CLINICAL KINESIOLOGY LABORATORY	1
BSCI 11010	FOUNDATIONAL ANATOMY AND PHYSIOLOGY I (KBS) (KLAB) <sup>1</sup>	3
BSCI 11020	FOUNDATIONAL ANATOMY AND PHYSIOLOGY II (KBS) (KLAB) <sup>1</sup>	3
Minimum Total Credit Hours:		14

- <sup>1</sup> Students who have successfully completed ATTR 25057 and ATTR 25058 (or EXSC 25057 and EXSC 25058 or BSCI 21010 and BSCI 21010) may use those courses in place of BSCI 11010 and BSCI 11020.

## Athletic Trainers Transition Concentration Requirements

Code	Title	Credit Hours
<b>Concentration Requirements (courses do not count in major GPA; min C grade required in all courses)</b>		
PTST 10010	TRANSITIONS IN PHYSICAL THERAPY (min C grade) <sup>1,2</sup>	8
<b>Additional Requirements (course do not count in the major GPA)</b>		
Kent Core Basic Science (possible Transfer Coursework) (min C grade)		3
General Electives (possible Transfer Coursework)		3
Minimum Total Credit Hours:		14

- <sup>1</sup> For PTST 10010, students will be required to complete two three-day laboratory weekends on the Ashtabula Campus.
- <sup>2</sup> Students in the Athletic Trainers Transition concentration will earn transfer credit (no grade) for PTST 20003 and PTST 20004 after completing PTST 10010 with minimum C grade.

## Progression Requirements

To be able to register for physical therapist assistant technology (PTST) courses, students must be accepted to technical study. Acceptance to

technical study is a selective process. Criteria for acceptance are the following:

- Completion of observation hours in a physical therapy clinic
- Minimum 2.700 overall GPA from the most recent academic experience of 12 credit hours or more
- 
- Completion or placement out of all Kent State University prescribed developmental education coursework ENG 01001 and RC 00006
- 
- Submission of application to the PTST technical study, separate from the university application
- Program Applicant Assessments as noted in the PTA program application information packet for each cohort

## Graduation Requirements

Minimum Major GPA	Minimum Overall GPA
2.000	2.000

- Minimum C (or S) grade may be required in some courses.
- Three practicum courses require students to complete a minimum of 640 off-campus clinical education hours under the supervision of a licensed physical therapist or physical therapist assistant. Under certain circumstances, students in practicum courses are required to attend clinicals on days outside of the academic calendar. These circumstances may occur on scheduled or unscheduled campus closures or on days when classes are cancelled. Examples include: certain holidays, spring recess, snow days and/or prior to the start of semesters. Students are notified in advance of the clinical education schedule.
- Contracted clinical education sites normally require students to demonstrate both medical and background clearances, as well as the ability to perform the core tasks and essential job functions of a physical therapist assistant. Students who are unable to perform the core tasks and essential job functions, or who cannot demonstrate medical and background clearance may not be able to complete the requirements for the degree program.



## Roadmaps

- Physical Therapist Assistant Technology Major
- Athletic Trainers Transition Concentration

### Physical Therapist Assistant Technology Major

This roadmap is a recommended semester-by-semester plan of study for this major. However, courses designated as critical (!) must be completed in the semester listed to ensure a timely graduation.

<b>Summer 1</b>		<b>Credits</b>
BSCI 11010	FOUNDATIONAL ANATOMY AND PHYSIOLOGY I (KBS) (KLAB)	3
PSYC 11762	GENERAL PSYCHOLOGY (DIVD) (KSS)	3
UC 10097	DESTINATION KENT STATE: FIRST YEAR EXPERIENCE	1
Kent Core Requirement		3
Credit Hours		10
<b>Summer 2</b>		
PTST 11092	CLINICAL EDUCATION I (ELR) (East Liverpool Campus)	0-1
Credit Hours		0
<b>Summer 3</b>		
PTST 22092	CLINICAL EDUCATION PRACTICUM II (ELR) (Ashtabula Campus)	0-2
Credit Hours		0
<b>Semester One</b>		
AHS 12010	PROFESSIONALISM IN HEALTHCARE	1
AHS 24010 or HED 14020	MEDICAL TERMINOLOGY or MEDICAL TERMINOLOGY	1-3
BSCI 11020	FOUNDATIONAL ANATOMY AND PHYSIOLOGY II (KBS) (KLAB)	3
PTST 10000	INTRODUCTION TO PHYSICAL THERAPIST ASSISTANT	1
! PTST 10001	PRINCIPLES OF PATIENT CARE IN PHYSICAL THERAPY	4
! PTST 10003	CLINICAL CONDITIONS I	2
Credit Hours		12
<b>Semester Two</b>		
AHS 12005	CONCEPTS IN LIFESPAN DEVELOPMENT	3
! AHS 22002	CLINICAL KINESIOLOGY	3
! AHS 22003	CLINICAL KINESIOLOGY LABORATORY	1
! PTST 10004	PHYSICAL THERAPY PROCEDURES I	4
! PTST 11005	PHYSICAL THERAPY PRACTICE I	2
Kent Core Requirement		3
Credit Hours		16
<b>Semester Three</b>		
! PTST 11092	CLINICAL EDUCATION I (ELR) (Ashtabula Campus)	0-1
! PTST 20003	CLINICAL CONDITIONS II	2
! PTST 20004	PHYSICAL THERAPY PROCEDURES II	4
! PTST 22005	PHYSICAL THERAPY PRACTICE II	2
! PTST 22092	CLINICAL EDUCATION PRACTICUM II (ELR) (East Liverpool Campus)	0-2
Kent Core Requirement		3
Credit Hours		14
<b>Semester Four</b>		
! PTST 20006	PHYSICAL REHABILITATION PROCEDURES	4

! PTST 20008	CLINICAL CONDITIONS III	2
! PTST 22007	PHYSICAL THERAPY PRACTICE III	2
! PTST 23092	CLINICAL EDUCATION PRACTICUM III (ELR)	2
Kent Core Requirement		3
Credit Hours		13
Minimum Total Credit Hours:		65

## Athletic Trainers Transition Concentration

This roadmap is a recommended semester-by-semester plan of study for this major. However, courses designated as critical (!) must be completed in the semester listed to ensure a timely graduation.

Semester Prerequisite		Credits
UC 10097	DESTINATION KENT STATE: FIRST YEAR EXPERIENCE	1
Kent Core Requirements (possible Transfer Coursework)		15
General Electives (possible Transfer Coursework)		3
Credit Hours		19
Semester One		
PSYC 11762	GENERAL PSYCHOLOGY (DIVD) (KSS)	3
PTST 10000	INTRODUCTION TO PHYSICAL THERAPIST ASSISTANT	1
! PTST 10010	TRANSITIONS IN PHYSICAL THERAPY	8
Transfer credit (no grade) for PTST 20003 and PTST 20004 after completing PTST 10010 (min C grade)		6
Credit Hours		18
Semester Two		
AHS 12005	CONCEPTS IN LIFESPAN DEVELOPMENT	3
AHS 12010	PROFESSIONALISM IN HEALTHCARE	1
AHS 24010 or HED 14020	MEDICAL TERMINOLOGY or MEDICAL TERMINOLOGY	1
! PTST 10001	PRINCIPLES OF PATIENT CARE IN PHYSICAL THERAPY	4
! PTST 10003	CLINICAL CONDITIONS I	2
! PTST 11005	PHYSICAL THERAPY PRACTICE I	2
Credit Hours		13
Semester Three		
! PTST 11092	CLINICAL EDUCATION I (ELR)	1
! PTST 20006	PHYSICAL REHABILITATION PROCEDURES	4
! PTST 20008	CLINICAL CONDITIONS III	2
! PTST 22005	PHYSICAL THERAPY PRACTICE II	2
Credit Hours		9
Semester Four		
! PTST 22007	PHYSICAL THERAPY PRACTICE III	2
! PTST 22092	CLINICAL EDUCATION PRACTICUM II (ELR)	2
! PTST 23092	CLINICAL EDUCATION PRACTICUM III (ELR)	2
Credit Hours		6
Minimum Total Credit Hours:		65

## Radiologic Imaging Sciences - B.R.I.T.

### College of Applied and Technical Studies

cats@kent.edu

www.kent.edu/cats

## Description

The Bachelor of Radiologic and Imaging Sciences Technology degree is designed for students pursuing studies related to medical imaging.

Job opportunities for CT and MRI technologists, sonographers and therapists exist in hospitals, surgical centers, clinics, physician offices and other healthcare facilities. .

The Radiologic and Imaging Sciences major comprising the following concentrations:

- The **Computed Tomography** concentration uses specialized x-ray equipment to create sectional images of the human body. Each cross-sectional image reveals complex information about body structures that are used for a variety of reasons (i.e., diagnostic, treatment planning, interventional or screening).
  - Computed Tomography concentration for students who completed an A.A.S. degree in Radiologic Technology, Nuclear Medicine or Radiation Therapy
  - Computed Tomography concentration for students who completed a hospital-based certificate or A.T.S. degree in Radiologic Technology and American Registry of Radiologic Technologist certification examination
- The **Diagnostic Medical Sonography** concentration uses medical ultrasound (high frequency sound waves that produce images of internal structures) to diagnose a variety of conditions and diseases, as well as monitor fetal development.
  - Diagnostic Medical Sonography concentration for new students (freshmen) and students who completed an associate degree
  - Diagnostic Medical Sonography concentration for students who completed an A.A.S. degree in Radiologic Technology
  - Diagnostic Medical Sonography concentration for students who completed a hospital-based certificate program or A.T.S. degree in Radiologic Technology and American Registry of Radiologic Technologist certification examination
- The **Magnetic Resonance Imaging** concentration uses a powerful magnet, radio waves, and computers to create sectional images of the human body. The images reveal complex information about body structures and the chemical changes that occur as a result of the onset of disease.
  - Magnetic Resonance Imaging concentration for students who completed an A.A.S. degree in Radiologic Technology, Nuclear Medicine or Radiation Therapy
  - Magnetic Resonance Imaging concentration for students who completed a hospital-based certificate or A.T.S. degree in Radiologic Technology and American Registry of Radiologic Technologist certification examination
- The **Radiation Therapy** concentration uses specialized high energy treatment units to administer therapeutic doses of radiation to cancer patients.
  - Radiation Therapy concentration for new students (freshmen) and students who completed an associate degree
  - Radiation Therapy concentration for students who completed an A.A.S. degree in Radiologic Technology
  - Radiation Therapy concentration for students who completed a hospital-based certificate program or A.T.S. degree in Radiologic Technology and American Registry of Radiologic Technologist certification examination

### Fully Offered At:

- Online (Computed Tomography completer program and Radiologic Technology and Magnetic Resonance Imaging completer program)
- Salem Campus (all concentrations)

## Accreditation

The B.R.I.T. degree in Radiologic Imaging Sciences (Radiation Therapy concentration only) is accredited by the Joint Review Committee on Education in Radiologic Technology.

## Admission Requirements

The university affirmatively strives to provide educational opportunities and access to students with varied backgrounds, those with special talents and adult students who graduated from high school three or more years ago.

**Freshman Students on the Kent Campus:** The freshman admission policy on the Kent Campus is selective. Admission decisions are based upon the following: cumulative grade point average, ACT and/or SAT scores, strength of high school college preparatory curriculum and grade trends. The Admissions Office at the Kent Campus may defer the admission of students who do not meet admissions criteria but who demonstrate areas of promise for successful college study. Deferred applicants may begin their college coursework at one of seven regional campuses of Kent State University. For more information on admissions, including additional requirements for some academic programs, visit the admissions website for new freshmen.

**Freshman Students on the Regional Campuses:** Kent State campuses at Ashtabula, East Liverpool, Geauga, Salem, Stark, Trumbull and Tuscarawas, as well as the Regional Academic Center in Twinsburg, have open enrollment admission for students who hold a high school diploma, GED or equivalent.

**English Language Proficiency Requirements for International Students:** All international students must provide proof of English language proficiency (unless they meet specific exceptions) by earning a minimum 525 TOEFL score (71 on the Internet-based version), minimum 75 MELAB score, minimum 6.0 IELTS score or minimum 48 PTE score, or by completing the ESL level 112 Intensive Program. For more information on international admission, visit the Office of Global Education's admission website.

**Transfer, Transitioning and Former Students:** For more information about admission criteria for transfer, transitioning and former students, please visit the admissions website.

## Program Learning Outcomes

Graduates of the Computed Tomography concentrations will be able to:

1. Effectively utilize critical thinking and problem-solving skills when performing computed tomography procedures.
2. Communicate effectively in oral and written form with patients, families and members of the health care team.
3. Perform Computed Tomography procedures successfully and consistent with entry-level requirements of a registered CT technologist. Successfully perform computed tomography procedures.
4. Determine the value of professional growth and development and to conduct themselves in a professional manner.

Graduates of the Diagnostic Medical Sonography concentrations will be able to:

1. Effectively utilize critical thinking and problem-solving skills in the practice of diagnostic medical sonography.

2. Use oral and written communication skills with members of the health care team.
3. Successfully perform sonographic procedures consistent with entry-level requirements.
4. Determine the value of professional growth and development and conduct themselves in a professional manner.

Graduates of the Magnetic Resonance Imaging concentrations will be able to:

1. Effectively utilize critical thinking and problem-solving skills when performing magnetic resonance imaging procedures.
2. Communicate effectively in oral and written form with patients, families and members of the health care team.
3. Perform Magnetic Resonance Imaging procedures successfully and consistent with entry-level requirements of a registered MRI technologist.
4. Determine the value of professional growth and development and to conduct themselves in a professional manner.

Graduates of the Radiation Therapy concentrations will be able to:

1. Use critical thinking and problem-solving skills in the practice of radiation therapy.
2. Effectively communicate in oral and written form with members of the health care team.
3. Successfully perform radiation therapy procedures consistent with entry-level requirements.
4. Determine the value of professional growth and development and to conduct themselves in a professional manner.

## University Requirements

All students in a bachelor's degree program at Kent State University must complete the following university requirements for graduation.

**NOTE:** University requirements may be fulfilled in this program by specific course requirements. Please see Program Requirements for details.

Destination Kent State: First Year Experience	1
Course is not required for students with 25 transfer credits, excluding College Credit Plus, or age 21+ at time of admission.	
Diversity Domestic/Global (DIVD/DIVG)	2 courses
Students must successfully complete one domestic and one global course, of which one must be from the Kent Core.	
Experiential Learning Requirement (ELR)	varies
Students must successfully complete one course or approved experience.	
Kent Core (see table below)	36-37
Writing-Intensive Course (WIC)	1 course
Students must earn a minimum C grade in the course.	
Upper-Division Requirement	39 (or 42)
Students must successfully complete 39 upper-division (numbered 30000 to 49999) credit hours to graduate. Students in a B.A. and/or B.S. degree in the College of Arts and Sciences must complete 42 upper-division credit hours.	
Total Credit Hour Requirement	120
Some bachelor's degrees require students to complete more than 120 credit hours.	

## Kent Core Requirements

Kent Core Composition (KCOMP)	6
Kent Core Mathematics and Critical Reasoning (KMCR)	3
Kent Core Humanities and Fine Arts (KHUM/KFA) (min one course each)	9
Kent Core Social Sciences (KSS) (must be from two disciplines)	6
Kent Core Basic Sciences (KBS/KLAB) (must include one laboratory)	6-7
Kent Core Additional (KADL)	6
<b>Total Credit Hours:</b>	<b>36-37</b>

## Program Requirements

- Computed Tomography Concentrations
- Diagnostic Medical Sonography Concentrations
- Magnetic Resonance Imaging Concentrations
- Radiation Therapy Concentrations

## COMPUTED TOMOGRAPHY CONCENTRATION REQUIREMENTS

Code	Title	Credit Hours
<b>Concentration Requirements (courses count in major GPA; min C grade required in all RIS courses)</b>		
RIS 34084	COMPUTED TOMOGRAPHY AND MAGNETIC RESONANCE IMAGING SECTIONAL ANATOMY I	2
RIS 34086	COMPUTED TOMOGRAPHY AND MAGNETIC RESONANCE IMAGING SECTIONAL ANATOMY II	2
RIS 44004	COMPUTED TOMOGRAPHY CLINICAL EDUCATION I	2
RIS 44021	PATIENT MANAGEMENT IN COMPUTED TOMOGRAPHY	2
RIS 44030	COMPUTED TOMOGRAPHY IMAGE PRODUCTION I	2
RIS 44047	COMPUTED TOMOGRAPHY PROCEDURES I	2
RIS 44048	COMPUTED TOMOGRAPHY PROCEDURES II	2
RIS 44054	COMPUTED TOMOGRAPHY CLINICAL EDUCATION II	2
RIS 44062	COMPUTED TOMOGRAPHY IMAGE PRODUCTION II	2
RIS 44068	COMPUTED TOMOGRAPHY TECHNIQUES	2
RIS 44069	COMPUTED TOMOGRAPHY CLINICAL EDUCATION III	1
RIS 44083	PATHOPHYSIOLOGY FOR MEDICAL IMAGING	3
RIS 44088	LEADERSHIP IN MEDICAL IMAGING	1
RIS 44096	INDIVIDUAL INVESTIGATION IN MEDICAL IMAGING DIRECTED READINGS	3
RIS 44098	RESEARCH IN MEDICAL IMAGING (ELR) (WIC)	3
<b>Additional Requirements (courses do not count in major GPA)</b>		
CHEM 10050	FUNDAMENTALS OF CHEMISTRY (KBS)	3
or CHEM 10055	MOLECULES OF LIFE (KBS)	
MATH 11009	MODELING ALGEBRA (KMCR)	3-4
or MATH 11010	ALGEBRA FOR CALCULUS (KMCR)	
PSYC 11762	GENERAL PSYCHOLOGY (DIVD) (KSS)	3
UC 10097	DESTINATION KENT STATE: FIRST YEAR EXPERIENCE	1
Kent Core Composition		6
Kent Core Humanities and Fine Arts (minimum one course from each)		9
Kent Core Social Sciences (must be from two disciplines)		3

Kent Core Additional		6
General Electives (total credit hours depends on earning 120 credit hours, including 39 upper-division credit hours) <sup>1</sup>		48
<b>Additional Concentration Requirements (courses do not count in major GPA), choose from the following:</b>		<b>7-11</b>
<i>Concentration for A.A.S. Radiologic Technology graduates<sup>CTRT</sup></i>		
Biology (BSCI) Electives, choose from the following <sup>2</sup>		6-8
BSCI 11010 & BSCI 11020	FOUNDATIONAL ANATOMY AND PHYSIOLOGY I (KBS) (KLAB) and FOUNDATIONAL ANATOMY AND PHYSIOLOGY II (KBS) (KLAB)	
BSCI 21010 & BSCI 21020	ANATOMY AND PHYSIOLOGY I (KBS) (KLAB) and ANATOMY AND PHYSIOLOGY II	
HED 14020 or AHS 24010	MEDICAL TERMINOLOGY	1-3
<i>Concentration for for A.T.S. Radiologic Technology graduates (with certification)<sup>CTHA</sup></i>		
BSCI 10001	HUMAN BIOLOGY (KBS)	3
CIS 24053 or CS 10001 or IT 11000	INTRODUCTION TO COMPUTER APPLICATIONS COMPUTER LITERACY INTRODUCTION TO OFFICE PRODUCTIVITY APPS	3
Kent Core Basic Sciences (laboratory)		1
Minimum Total Credit Hours:		120

<sup>1</sup> Most general elective credit hours will be fulfilled with courses earned for radiologic technology associate degree or hospital-based certificate (**32-40 credit hours awarded for certificate**).

<sup>2</sup> Students who have successfully completed ATTR 25057 and ATTR 25058 (or EXSC 25057 and EXSC 25058) may use those courses in place of BSCI 11010 and BSCI 11020 (or BSCI 21010 and BSCI 21020).

## Diagnostic Medical Sonography Concentration Requirements

Code	Title	Credit Hours
<b>Concentration Requirements (courses count in major GPA; min C grade required in all RIS courses)</b>		
RIS 34040	PATIENT MANAGEMENT IN DIAGNOSTIC MEDICAL SONOGRAPHY	3
RIS 34042	ABDOMINAL SONOGRAPHY I	3
RIS 34044	ULTRASOUND PHYSICS AND INSTRUMENTATION	3
RIS 34045	ULTRASOUND CLINICAL EDUCATION I	2
RIS 34052	ABDOMINAL SONOGRAPHY II	3
RIS 34060	ULTRASOUND CLINICAL EDUCATION II	4
RIS 34062	OBSTETRICS AND GYNECOLOGY SONOGRAPHY I	3
RIS 34072	SUPERFICIAL STRUCTURES SONOGRAPHY	2
RIS 34075	ULTRASOUND CLINICAL EDUCATION III	2
RIS 34083	SECTIONAL ANATOMY IN MEDICAL IMAGING	3
RIS 44072	OBSTETRICS AND GYNECOLOGY SONOGRAPHY II	3
RIS 44074	VASCULAR SONOGRAPHY	2
RIS 44076	ULTRASOUND CLINICAL EDUCATION IV	4
RIS 44083	PATHOPHYSIOLOGY FOR MEDICAL IMAGING	3
RIS 44084	ULTRASOUND IMAGE EVALUATION	1
RIS 44098	RESEARCH IN MEDICAL IMAGING (ELR) (WIC)	3
<b>Additional Requirements (courses do not count in major GPA)</b>		

MATH 11009 or MATH 11010	MODELING ALGEBRA (KMCR) ALGEBRA FOR CALCULUS (KMCR)	3-4
PSYC 11762	GENERAL PSYCHOLOGY (DIVD) (KSS)	3
UC 10097	DESTINATION KENT STATE: FIRST YEAR EXPERIENCE	1
Kent Core Composition		6
Kent Core Humanities and Fine Arts (minimum one course from each)		9
Kent Core Social Sciences (must be from two disciplines)		3
Kent Core Additional		6
General Electives (total credit hours depends on earning 120 credit hours, including 39 upper-division credit hours) <sup>1</sup>		24-35
<b>Additional Concentration Requirements (courses do not count in major GPA), choose from the following:</b>		<b>19-21</b>
<i>Concentration for A.S. Degree graduates or Freshman <sup>FRAS</sup></i>		
Biology (BSCI) Electives, choose from the following:		6-8
BSCI 11010 & BSCI 11020	FOUNDATIONAL ANATOMY AND PHYSIOLOGY I (KBS) (KLAB) and FOUNDATIONAL ANATOMY AND PHYSIOLOGY II (KBS) (KLAB)	
BSCI 21010 or BSCI 21020	ANATOMY AND PHYSIOLOGY I (KBS) (KLAB) <sup>2</sup> ANATOMY AND PHYSIOLOGY II	
CIS 24053 or CS 10001 or IT 11000	INTRODUCTION TO COMPUTER APPLICATIONS COMPUTER LITERACY INTRODUCTION TO OFFICE PRODUCTIVITY APPS	3
HED 14020	MEDICAL TERMINOLOGY	3
PHY 13001 & PHY 13021 or PHY 12111	GENERAL COLLEGE PHYSICS I (KBS) and GENERAL COLLEGE PHYSICS LABORATORY I (KBS) (KLAB) PHYSICS FOR HEALTH TECHNOLOGIES	3-5
RIS 34001	INTRODUCTION TO DIAGNOSTIC MEDICAL SONOGRAPHY (min C grade)	1
Kent Core Basic Sciences		3
<i>Concentration for A.A.S Radiologic Technology graduates <sup>RTAS</sup></i>		
Biology (BSCI) Electives, choose from the following <sup>2</sup>		6-8
BSCI 11010 & BSCI 11020	FOUNDATIONAL ANATOMY AND PHYSIOLOGY I (KBS) (KLAB) and FOUNDATIONAL ANATOMY AND PHYSIOLOGY II (KBS) (KLAB)	
BSCI 21010 & BSCI 21020	ANATOMY AND PHYSIOLOGY I (KBS) (KLAB) and ANATOMY AND PHYSIOLOGY II	
CHEM 10050 or CHEM 10055	FUNDAMENTALS OF CHEMISTRY (KBS) MOLECULES OF LIFE (KBS)	3
HED 14020 or AHS 24010	MEDICAL TERMINOLOGY MEDICAL TERMINOLOGY	1-3
<i>Concentration for A.T.S. Radiologic Technology graduates (with certification) <sup>HATS</sup></i>		
BSCI 10001	HUMAN BIOLOGY (KBS)	3
CHEM 10050 or CHEM 10055	FUNDAMENTALS OF CHEMISTRY (KBS) MOLECULES OF LIFE (KBS)	3
CIS 24053 or CS 10001 or IT 11000	INTRODUCTION TO COMPUTER APPLICATIONS COMPUTER LITERACY INTRODUCTION TO OFFICE PRODUCTIVITY APPS	3
Kent Core Basic Sciences (laboratory)		1
Minimum Total Credit Hours:		120

<sup>1</sup> For students with an associate degree or hospital-based certificate, most general elective credit hours will be fulfilled with courses earned for that degree (32 credit hours awarded for certificate).

<sup>2</sup> Students who have successfully completed ATTR 25057 and ATTR 25058 (or EXSC 25057 and EXSC 25058) may use those courses in place of BSCI 11010 and BSCI 11020 (or BSCI 21010 and BSCI 21020).

## Magnetic Resonance Imaging Concentration Requirements

Code	Title	Credit Hours
<b>Concentration Requirements (courses count in major GPA; min C grade required in RIS all courses)</b>		
RIS 34084	COMPUTED TOMOGRAPHY AND MAGNETIC RESONANCE IMAGING SECTIONAL ANATOMY I	2
RIS 34086	COMPUTED TOMOGRAPHY AND MAGNETIC RESONANCE IMAGING SECTIONAL ANATOMY II	2
RIS 44003	MAGNETIC RESONANCE IMAGING CLINICAL EDUCATION I	2
RIS 44031	PATIENT MANAGEMENT IN MAGNETIC RESONANCE IMAGING	2
RIS 44044	MAGNETIC RESONANCE IMAGING PROCEDURES I	2
RIS 44045	MAGNETIC RESONANCE IMAGING PROCEDURES II	2
RIS 44051	MAGNETIC RESONANCE EQUIPMENT AND IMAGE ACQUISITION I	2
RIS 44052	MAGNETIC RESONANCE EQUIPMENT AND IMAGE ACQUISITION II	2
RIS 44063	MAGNETIC RESONANCE IMAGING CLINICAL EDUCATION II	2
RIS 44066	MAGNETIC RESONANCE IMAGING TECHNIQUES	2
RIS 44073	MAGNETIC RESONANCE IMAGING CLINICAL EDUCATION III	1
RIS 44083	PATHOPHYSIOLOGY FOR MEDICAL IMAGING	3
RIS 44088	LEADERSHIP IN MEDICAL IMAGING	1
RIS 44096	INDIVIDUAL INVESTIGATION IN MEDICAL IMAGING DIRECTED READINGS	3
RIS 44098	RESEARCH IN MEDICAL IMAGING (ELR) (WIC)	3
<b>Additional Requirements (courses do not count in major GPA)</b>		
CHEM 10050 or CHEM 10055	FUNDAMENTALS OF CHEMISTRY (KBS) MOLECULES OF LIFE (KBS)	3
MATH 11009 or MATH 11010	MODELING ALGEBRA (KMCR) ALGEBRA FOR CALCULUS (KMCR)	3-4
PSYC 11762	GENERAL PSYCHOLOGY (DIVD) (KSS)	3
UC 10097	DESTINATION KENT STATE: FIRST YEAR EXPERIENCE	1
Kent Core Composition		6
Kent Core Humanities and Fine Arts (minimum one course from each)		9
Kent Core Social Sciences (must be from two disciplines)		3
Kent Core Additional		6
General Electives (total credit hours depends on earning 120 credit hours, including 39 upper-division credit hours) <sup>1</sup>		48
<b>Additional Concentration Requirements (courses do not count in major GPA), choose from the following:</b>		<b>7-11</b>
<i>Concentration for A.A.S. Radiologic Technology graduates <sup>MRRT</sup></i>		
Biology (BSCI) Electives, choose from the following <sup>2</sup>		6-8
BSCI 11010 & BSCI 11020	FOUNDATIONAL ANATOMY AND PHYSIOLOGY I (KBS) (KLAB) and FOUNDATIONAL ANATOMY AND PHYSIOLOGY II (KBS) (KLAB)	



BSCI 21010 & BSCI 21020	ANATOMY AND PHYSIOLOGY I (KBS) (KLAB) and ANATOMY AND PHYSIOLOGY II	
HED 14020 or AHS 24010	MEDICAL TERMINOLOGY	1-3
<i>Concentration for A.T.S. Radiologic Technology graduates (with certification)<sup>MRHA</sup></i>		
BSCI 10001	HUMAN BIOLOGY (KBS)	3
CIS 24053 or CS 10001 or IT 11000	INTRODUCTION TO COMPUTER APPLICATIONS COMPUTER LITERACY INTRODUCTION TO OFFICE PRODUCTIVITY APPS	3
Kent Core Basic Sciences (laboratory)		1
Minimum Total Credit Hours:		120

- Most general elective credit hours will be fulfilled with courses earned for radiologic technology associate degree or hospital-based certificate (32 credit hours awarded for certificate).
- Students who have successfully completed ATTR 25057 and ATTR 25058 (or EXSC 25057 and EXSC 25058) may use those courses in place of BSCI 11010 and BSCI 11020 (or BSCI 21010 and BSCI 21020).

### Radiation Therapy Concentration Requirements

Code	Title	Credit Hours
<b>Concentration Requirements (courses count in major GPA; min C grade required in all RIS courses)</b>		
RIS 34003	RADIATION THERAPY PRINCIPLES AND PRACTICE I	3
RIS 34004	RADIATION THERAPY PATIENT MANAGEMENT	3
RIS 34008	RADIATION THERAPY PHYSICS I	3
RIS 34030	RADIATION THERAPY CLINICAL EDUCATION I	1
RIS 34083	SECTIONAL ANATOMY IN MEDICAL IMAGING	3
RIS 44009	RADIATION THERAPY PRINCIPLES AND PRACTICE II	2
RIS 44018	RADIATION THERAPY PHYSICS II	3
RIS 44028	RADIATION THERAPY RADIOBIOLOGY	3
RIS 44029	RADIATION THERAPY PATHOLOGY I	3
RIS 44038	RADIATION THERAPY PHYSICS III	3
RIS 44041	RADIATION THERAPY QUALITY MANAGEMENT	2
RIS 44042	RADIATION THERAPY PATHOLOGY II	3
RIS 44053	RADIATION THERAPY CLINICAL EDUCATION II	3
RIS 44058	RADIATION THERAPY CLINICAL EDUCATION III	2
RIS 44067	RADIATION THERAPY CLINICAL EDUCATION IV	3
RIS 44098	RESEARCH IN MEDICAL IMAGING (ELR) (WIC)	3
<b>Additional Requirements (courses do not count in major GPA)</b>		
COMM 15000	INTRODUCTION TO HUMAN COMMUNICATION (KADL)	3
MATH 11009 or MATH 11010	MODELING ALGEBRA (KMCR) ALGEBRA FOR CALCULUS (KMCR)	3-4
PSYC 11762	GENERAL PSYCHOLOGY (DIVD) (KSS)	3
UC 10097	DESTINATION KENT STATE: FIRST YEAR EXPERIENCE	1
Kent Core Composition		6
Kent Core Humanities and Fine Arts (minimum one course from each)		9
Kent Core Social Sciences (must be from two disciplines)		3
General Electives (total credit hours depends on earning 120 credit hours, including 39 upper-division credit hours) <sup>1</sup>		24-39
<b>Additional Concentration Requirements (courses do not count in major GPA), choose from the following:</b>		<b>10-22</b>

<i>Concentration for A.S. Degree graduates or Freshman<sup>RTFE</sup></i>		
Biology (BSCI) Electives, choose from the following:		6-8
BSCI 11010 & BSCI 11020	FOUNDATIONAL ANATOMY AND PHYSIOLOGY I (KBS) (KLAB) and FOUNDATIONAL ANATOMY AND PHYSIOLOGY II (KBS) (KLAB)	
BSCI 21010 & BSCI 21020	ANATOMY AND PHYSIOLOGY I (KBS) (KLAB) and ANATOMY AND PHYSIOLOGY II <sup>2</sup>	
CIS 24053 or CS 10001 or IT 11000	INTRODUCTION TO COMPUTER APPLICATIONS COMPUTER LITERACY INTRODUCTION TO OFFICE PRODUCTIVITY APPS	3
HED 14020	MEDICAL TERMINOLOGY	3
PHY 13001 & PHY 13021 or PHY 12111	GENERAL COLLEGE PHYSICS I (KBS) and GENERAL COLLEGE PHYSICS LABORATORY I (KBS) (KLAB) PHYSICS FOR HEALTH TECHNOLOGIES	3-5
RIS 44000	INTRODUCTION TO RADIATION THERAPY	2
Kent Core Basic Sciences		3
<i>Concentration for A.A.S. Radiologic Technology graduates<sup>RTAA</sup></i>		
Biology (BSCI) Electives, choose from the following <sup>2</sup>		6-8
BSCI 11010 & BSCI 11020	FOUNDATIONAL ANATOMY AND PHYSIOLOGY I (KBS) (KLAB) and FOUNDATIONAL ANATOMY AND PHYSIOLOGY II (KBS) (KLAB)	
BSCI 21010 & BSCI 21020	ANATOMY AND PHYSIOLOGY I (KBS) (KLAB) and ANATOMY AND PHYSIOLOGY II	
CHEM 10050 or CHEM 10055	FUNDAMENTALS OF CHEMISTRY (KBS) MOLECULES OF LIFE (KBS)	3
HED 14020 or AHS 24010	MEDICAL TERMINOLOGY MEDICAL TERMINOLOGY	1-3
<i>Concentration for A.T.S. Radiologic Technology graduates (with certification)<sup>RTHB</sup></i>		
BSCI 10001	HUMAN BIOLOGY (KBS)	3
CHEM 10050 or CHEM 10055	FUNDAMENTALS OF CHEMISTRY (KBS) MOLECULES OF LIFE (KBS)	3
CIS 24053 or CS 10001 or IT 11000	INTRODUCTION TO COMPUTER APPLICATIONS COMPUTER LITERACY INTRODUCTION TO OFFICE PRODUCTIVITY APPS	3
Kent Core Basic Sciences (laboratory)		1
Minimum Total Credit Hours:		120

- For students with an associate degree or hospital-based certificate, most general elective credit hours will be fulfilled with courses earned for that degree (32 credit hours awarded for certificate).
- Students who have successfully completed ATTR 25057 and ATTR 25058 (or EXSC 25057 and EXSC 25058) may use those courses in place of BSCI 11010 and BSCI 11020 (or BSCI 21010 and BSCI 21020).

### Progression Requirements

To be able to register for Radiologic and Imaging Sciences (RIS) courses, students must be accepted to technical study. Acceptance to technical study is a selective process due to the limited number of students approved for each clinical education setting. Criteria for acceptance are the following:

- Completion of required non-radiologic and imaging sciences (RIS) courses, e.g., biology, chemistry, mathematics, psychology, Kent Core courses
- Minimum 2.750 overall GPA

## Graduation Requirements

Minimum Major GPA	Minimum Overall GPA
2.750	2.000

- Students must complete all Radiologic and Imaging Sciences (RIS) courses with a minimum C grade.
- Students must complete all academic and clinical competencies in their core concentration.

# Roadmaps

- Computed Tomography Concentration for A.A.S. Radiologic Technology graduates
- Computed Tomography Concentration for A.T.S. Radiologic Technology graduates (with certification)
- Diagnostic Medical Sonography Concentration for A.S. Degree graduates or Freshman
- Diagnostic Medical Sonography Concentration for A.A.S Radiologic Technology graduates
- Diagnostic Medical Sonography Concentration for A.T.S. Radiologic Technology graduates (with certification)
- Magnetic Resonance Imaging Concentration for A.A.S. Radiologic Technology graduates
- Magnetic Resonance Imaging Concentration for A.T.S. Radiologic Technology graduates (with certification)
- Radiation Therapy Concentration for A.S. Degree graduates or Freshman
- Radiation Therapy Concentration for A.A.S. Radiologic Technology graduates
- Radiation Therapy Concentration for A.T.S. Radiologic Technology graduates (with certification)

This roadmap is a recommended semester-by-semester plan of study for this major. However, courses designated as critical (!) must be completed in the semester listed to ensure a timely graduation.

## Computed Tomography Concentration for A.A.S. Radiologic Technology graduates

This roadmap is a recommended semester-by-semester plan of study for this major. However, courses designated as critical (!) must be completed in the semester listed to ensure a timely graduation.

Semester Prerequisite	Credits
! Technical requirements in Radiologic Technology	40
Biology (BSCI) Electives, choose from the following:	6-8
BSCI 11010 FOUNDATIONAL ANATOMY AND PHYSIOLOGY I & BSCI 11020(KBS) (KLAB) and FOUNDATIONAL ANATOMY AND PHYSIOLOGY II (KBS) (KLAB)	
BSCI 21010 ANATOMY AND PHYSIOLOGY I (KBS) (KLAB) & BSCI 2102C and ANATOMY AND PHYSIOLOGY II	
CHEM 10050 FUNDAMENTALS OF CHEMISTRY (KBS) or CHEM 10055 MOLECULES OF LIFE (KBS)	3
HED 14020 MEDICAL TERMINOLOGY or AHS 24010 MEDICAL TERMINOLOGY	1-3
MATH 11009 MODELING ALGEBRA (KMCR) or MATH 11010 ALGEBRA FOR CALCULUS (KMCR)	3-4
PSYC 11762 GENERAL PSYCHOLOGY (DIVD) (KSS)	3
UC 10097 DESTINATION KENT STATE: FIRST YEAR EXPERIENCE	1
Kent Core Requirement	3
Kent Core Requirement	3
Credit Hours	63
<b>Semester One</b>	
Kent Core Requirement	3

Kent Core Requirement		3
Kent Core Requirement		3
General Electives		3
Credit Hours		12
<b>Semester Two</b>		
Kent Core Requirement		3
Kent Core Requirement		3
Kent Core Requirement		3
General Electives		5
Credit Hours		14
<b>Semester Three</b>		
! RIS 34084	COMPUTED TOMOGRAPHY AND MAGNETIC RESONANCE IMAGING SECTIONAL ANATOMY I	2
! RIS 44004	COMPUTED TOMOGRAPHY CLINICAL EDUCATION I	2
! RIS 44021	PATIENT MANAGEMENT IN COMPUTED TOMOGRAPHY	2
! RIS 44030	COMPUTED TOMOGRAPHY IMAGE PRODUCTION I	2
RIS 44047	COMPUTED TOMOGRAPHY PROCEDURES I	2
! RIS 44088	LEADERSHIP IN MEDICAL IMAGING	1
! RIS 44096	INDIVIDUAL INVESTIGATION IN MEDICAL IMAGING DIRECTED READINGS	3
Credit Hours		14
<b>Semester Four</b>		
! RIS 34086	COMPUTED TOMOGRAPHY AND MAGNETIC RESONANCE IMAGING SECTIONAL ANATOMY II	2
! RIS 44048	COMPUTED TOMOGRAPHY PROCEDURES II	2
! RIS 44054	COMPUTED TOMOGRAPHY CLINICAL EDUCATION II	2
! RIS 44062	COMPUTED TOMOGRAPHY IMAGE PRODUCTION II	2
! RIS 44083	PATHOPHYSIOLOGY FOR MEDICAL IMAGING	3
! RIS 44098	RESEARCH IN MEDICAL IMAGING (ELR) (WIC)	3
Credit Hours		14
<b>Semester Five</b>		
! RIS 44068	COMPUTED TOMOGRAPHY TECHNIQUES	2
! RIS 44069	COMPUTED TOMOGRAPHY CLINICAL EDUCATION III	1
Credit Hours		3
Minimum Total Credit Hours:		120

### Computed Tomography Concentration for A.T.S. Radiologic Technology graduates (with certification)

This roadmap is a recommended semester-by-semester plan of study for this major. However, courses designated as critical (!) must be completed in the semester listed to ensure a timely graduation.

Semester Prerequisite		Credits
!	Associate of Technical Studies in Radiologic Technology	32
BSCI 10001	HUMAN BIOLOGY (KBS)	3
CHEM 10050	FUNDAMENTALS OF CHEMISTRY (KBS) or or MOLECULES OF LIFE (KBS)	3
CHEM 10055		
CIS 24053	INTRODUCTION TO COMPUTER APPLICATIONS or CS 10001 or IT 11000	3
	or COMPUTER LITERACY or INTRODUCTION TO OFFICE PRODUCTIVITY APPS	
MATH 11009	MODELING ALGEBRA (KMCR) or or ALGEBRA FOR CALCULUS (KMCR)	3-4
MATH 11010		
PSYC 11762	GENERAL PSYCHOLOGY (DIVD) (KSS)	3
UC 10097	DESTINATION KENT STATE: FIRST YEAR EXPERIENCE	1
Kent Core Requirements		3
Kent Core Requirements		3
Kent Core Requirements		3
Kent Core Requirements		3
Kent Core Requirements		3
Kent Core Requirements		3
Credit Hours		66
<b>Semester One</b>		
Kent Core Requirements		3
General Electives		9
Credit Hours		12
<b>Semester Two</b>		
Kent Core Requirement		3
Kent Core Requirement		1
General Electives		7
Credit Hours		11
<b>Semester Three</b>		
RIS 34084	COMPUTED TOMOGRAPHY AND MAGNETIC RESONANCE IMAGING SECTIONAL ANATOMY I	2
RIS 44004	COMPUTED TOMOGRAPHY CLINICAL EDUCATION I	2
RIS 44021	PATIENT MANAGEMENT IN COMPUTED TOMOGRAPHY	2
RIS 44030	COMPUTED TOMOGRAPHY IMAGE PRODUCTION I	2
RIS 44047	COMPUTED TOMOGRAPHY PROCEDURES I	2
RIS 44088	LEADERSHIP IN MEDICAL IMAGING	1
RIS 44096	INDIVIDUAL INVESTIGATION IN MEDICAL IMAGING DIRECTED READINGS	3
Credit Hours		14
<b>Semester Four</b>		
RIS 34086	COMPUTED TOMOGRAPHY AND MAGNETIC RESONANCE IMAGING SECTIONAL ANATOMY II	2
RIS 44048	COMPUTED TOMOGRAPHY PROCEDURES II	2
RIS 44054	COMPUTED TOMOGRAPHY CLINICAL EDUCATION II	2

RIS 44062	COMPUTED TOMOGRAPHY IMAGE PRODUCTION II	2
RIS 44083	PATHOPHYSIOLOGY FOR MEDICAL IMAGING	3
RIS 44098	RESEARCH IN MEDICAL IMAGING (ELR) (WIC)	3
Credit Hours		14
<b>Semester Five</b>		
RIS 44068	COMPUTED TOMOGRAPHY TECHNIQUES	2
RIS 44069	COMPUTED TOMOGRAPHY CLINICAL EDUCATION III	1
Credit Hours		3
Minimum Total Credit Hours:		120

### Diagnostic Medical Sonography Concentration for A.S. Degree graduates or Freshman

This roadmap is a recommended semester-by-semester plan of study for this major. However, courses designated as critical (!) must be completed in the semester listed to ensure a timely graduation.

Semester One		Credits
CIS 24053	INTRODUCTION TO COMPUTER APPLICATIONS or CS 10001 or IT 11000	3
	or COMPUTER LITERACY or INTRODUCTION TO OFFICE PRODUCTIVITY APPS	
PSYC 11762	GENERAL PSYCHOLOGY (DIVD) (KSS)	3
UC 10097	DESTINATION KENT STATE: FIRST YEAR EXPERIENCE	1
Kent Core Requirement		3
General Electives		3
Credit Hours		13
<b>Semester Two</b>		
MATH 11009	MODELING ALGEBRA (KMCR) or or ALGEBRA FOR CALCULUS (KMCR)	3-4
MATH 11010		
Kent Core Requirement		3
Kent Core Requirement		3
Kent Core Requirement		3
General Electives		3
Credit Hours		15
<b>Semester Three</b>		
Kent Core Requirement		3
Kent Core Requirement		3
Kent Core Requirement		3
General Electives		3
Credit Hours		12
<b>Semester Four</b>		
Kent Core Requirement		3
Kent Core Requirement		3
General Electives		4
Credit Hours		10
<b>Semester Five</b>		
BSCI 11010	FOUNDATIONAL ANATOMY AND PHYSIOLOGY I or (KBS) (KLAB) BSCI 21010 or ANATOMY AND PHYSIOLOGY I (KBS) (KLAB)	3-4
General Electives		8
Credit Hours		12
<b>Semester Six</b>		
HED 14020	MEDICAL TERMINOLOGY	3

PHY 13001 & PHY 13021 or PHY 12111	GENERAL COLLEGE PHYSICS I (KBS) and GENERAL COLLEGE PHYSICS LABORATORY I (KBS) (KLAB) or PHYSICS FOR HEALTH TECHNOLOGIES	3-5
BSCI 11020 or BSCI 21020	FOUNDATIONAL ANATOMY AND PHYSIOLOGY II (KBS) (KLAB) or ANATOMY AND PHYSIOLOGY II	3-4
General Electives		3
Credit Hours		13
<b>Third Summer Term</b>		
RIS 34001	INTRODUCTION TO DIAGNOSTIC MEDICAL SONOGRAPHY	1
Credit Hours		1
<b>Semester Seven</b>		
! RIS 34040	PATIENT MANAGEMENT IN DIAGNOSTIC MEDICAL SONOGRAPHY	3
! RIS 34042	ABDOMINAL SONOGRAPHY I	3
! RIS 34044	ULTRASOUND PHYSICS AND INSTRUMENTATION	3
! RIS 34045	ULTRASOUND CLINICAL EDUCATION I	2
! RIS 34083	SECTIONAL ANATOMY IN MEDICAL IMAGING	3
Credit Hours		14
<b>Semester Eight</b>		
! RIS 34052	ABDOMINAL SONOGRAPHY II	3
! RIS 34060	ULTRASOUND CLINICAL EDUCATION II	4
! RIS 34062	OBSTETRICS AND GYNECOLOGY SONOGRAPHY I	3
! RIS 44083	PATHOPHYSIOLOGY FOR MEDICAL IMAGING	3
! RIS 44098	RESEARCH IN MEDICAL IMAGING (ELR) (WIC)	3
Credit Hours		16
<b>Fourth Summer Term</b>		
RIS 34072	SUPERFICIAL STRUCTURES SONOGRAPHY	2
RIS 34075	ULTRASOUND CLINICAL EDUCATION III	2
! RIS 44072	OBSTETRICS AND GYNECOLOGY SONOGRAPHY II	3
! RIS 44084	ULTRASOUND IMAGE EVALUATION	1
Credit Hours		8
<b>Semester Nine</b>		
RIS 44076	ULTRASOUND CLINICAL EDUCATION IV	4
! RIS 44074	VASCULAR SONOGRAPHY	2
Credit Hours		6
Minimum Total Credit Hours:		120



## Diagnostic Medical Sonography Concentration for A.A.S Radiologic Technology graduates

This roadmap is a recommended semester-by-semester plan of study for this major. However, courses designated as critical (!) must be completed in the semester listed to ensure a timely graduation.

Semester Prerequisite	Credits
Technical requirements in Radiologic Technology	35
Biology (BSCI) Electives, choose from the following:	6-8
BSCI 11010 FOUNDATIONAL ANATOMY AND PHYSIOLOGY I & BSCI 11020(KBS) (KLAB) and FOUNDATIONAL ANATOMY AND PHYSIOLOGY II (KBS) (KLAB)	
BSCI 21010 ANATOMY AND PHYSIOLOGY I (KBS) (KLAB) & BSCI 2102C and ANATOMY AND PHYSIOLOGY II	
CHEM 10050 FUNDAMENTALS OF CHEMISTRY (KBS) or or MOLECULES OF LIFE (KBS) CHEM 10055	3
HED 14020 MEDICAL TERMINOLOGY or or MEDICAL TERMINOLOGY AHS 24010	1-3
MATH 11009 MODELING ALGEBRA (KMCR) or or ALGEBRA FOR CALCULUS (KMCR) MATH 11010	3-4
PSYC 11762 GENERAL PSYCHOLOGY (DIVD) (KSS)	3
UC 10097 DESTINATION KENT STATE: FIRST YEAR EXPERIENCE	1
Kent Core Requirement	3
Kent Core Requirement	3
Credit Hours	58
<b>Semester One</b>	
Kent Core Requirement	3
Kent Core Requirement	3
Kent Core Requirement	3
Kent Core Requirement	3
Kent Core Requirement	3
Kent Core Requirement	3
Credit Hours	18
<b>Semester Two</b>	
! RIS 34040 PATIENT MANAGEMENT IN DIAGNOSTIC MEDICAL SONOGRAPHY	3
! RIS 34042 ABDOMINAL SONOGRAPHY I	3
! RIS 34044 ULTRASOUND PHYSICS AND INSTRUMENTATION	3
! RIS 34045 ULTRASOUND CLINICAL EDUCATION I	2
! RIS 34083 SECTIONAL ANATOMY IN MEDICAL IMAGING	3
Credit Hours	14
<b>Semester Three</b>	
! RIS 34052 ABDOMINAL SONOGRAPHY II	3
! RIS 34060 ULTRASOUND CLINICAL EDUCATION II	4
! RIS 34062 OBSTETRICS AND GYNECOLOGY SONOGRAPHY I	3
! RIS 44083 PATHOPHYSIOLOGY FOR MEDICAL IMAGING	3
! RIS 44098 RESEARCH IN MEDICAL IMAGING (ELR) (WIC)	3
Credit Hours	16
<b>Semester Four</b>	
RIS 34075 ULTRASOUND CLINICAL EDUCATION III	2
RIS 34072 SUPERFICIAL STRUCTURES SONOGRAPHY	2
! RIS 44072 OBSTETRICS AND GYNECOLOGY SONOGRAPHY II	3

! RIS 44084	ULTRASOUND IMAGE EVALUATION	1
Credit Hours		8
<b>Semester Five</b>		
! RIS 44074	VASCULAR SONOGRAPHY	2
RIS 44076	ULTRASOUND CLINICAL EDUCATION IV	4
Credit Hours		6
Minimum Total Credit Hours:		120

## Diagnostic Medical Sonography Concentration for A.T.S. Radiologic Technology graduates (with certification)

This roadmap is a recommended semester-by-semester plan of study for this major. However, courses designated as critical (!) must be completed in the semester listed to ensure a timely graduation.

Semester	Prerequisite	Credits
	Associate of Technical Studies in Radiologic Technology	32
	BSCI 10001 HUMAN BIOLOGY (KBS)	3
	CHEM 10050 FUNDAMENTALS OF CHEMISTRY (KBS) or CHEM 10055 or MOLECULES OF LIFE (KBS)	3
	CIS 24053 INTRODUCTION TO COMPUTER APPLICATIONS or CS 10001 or COMPUTER LITERACY or IT 11000 or INTRODUCTION TO OFFICE PRODUCTIVITY APPS	3
	MATH 11009 MODELING ALGEBRA (KMCR) or MATH 11010 or ALGEBRA FOR CALCULUS (KMCR)	3-4
	PSYC 11762 GENERAL PSYCHOLOGY (DIVD) (KSS)	3
	UC 10097 DESTINATION KENT STATE: FIRST YEAR EXPERIENCE	1
	Kent Core Requirement	3
	Kent Core Requirement	3
	Kent Core Requirement	3
	Kent Core Requirement	3
	Kent Core Requirement	3
	Kent Core Requirement	3
	Credit Hours	66
<b>Semester One</b>		
	Kent Core Requirement	3
	Kent Core Requirement	1
	Kent Core Requirement	3
	General Electives	3
	Credit Hours	10
<b>Semester Two</b>		
!	RIS 34040 PATIENT MANAGEMENT IN DIAGNOSTIC MEDICAL SONOGRAPHY	3
!	RIS 34042 ABDOMINAL SONOGRAPHY I	3
!	RIS 34044 ULTRASOUND PHYSICS AND INSTRUMENTATION	3
!	RIS 34045 ULTRASOUND CLINICAL EDUCATION I	2
!	RIS 34083 SECTIONAL ANATOMY IN MEDICAL IMAGING	3
	Credit Hours	14
<b>Semester Three</b>		
!	RIS 34052 ABDOMINAL SONOGRAPHY II	3
!	RIS 34060 ULTRASOUND CLINICAL EDUCATION II	4
!	RIS 34062 OBSTETRICS AND GYNECOLOGY SONOGRAPHY I	3
!	RIS 44083 PATHOPHYSIOLOGY FOR MEDICAL IMAGING	3
!	RIS 44098 RESEARCH IN MEDICAL IMAGING (ELR) (WIC)	3
	Credit Hours	16
<b>Semester Four</b>		
	RIS 34072 SUPERFICIAL STRUCTURES SONOGRAPHY	2
	RIS 34075 ULTRASOUND CLINICAL EDUCATION III	2
!	RIS 44072 OBSTETRICS AND GYNECOLOGY SONOGRAPHY II	3
!	RIS 44084 ULTRASOUND IMAGE EVALUATION	1
	Credit Hours	8

<b>Semester Five</b>			
!	RIS 44074	VASCULAR SONOGRAPHY	2
	RIS 44076	ULTRASOUND CLINICAL EDUCATION IV	4
Credit Hours			6
Minimum Total Credit Hours:			120

## Magnetic Resonance Imaging Concentration for A.A.S. Radiologic Technology graduates

This roadmap is a recommended semester-by-semester plan of study for this major. However, courses designated as critical (!) must be completed in the semester listed to ensure a timely graduation.

<b>Semester Prerequisite</b>	<b>Credits</b>
Technical requirements in Radiologic Technology	40
Biology (BSCI) Electives, choose from the following:	6-8
BSCI 11010 FOUNDATIONAL ANATOMY AND PHYSIOLOGY I & BSCI 11020(KBS) (KLAB) and FOUNDATIONAL ANATOMY AND PHYSIOLOGY II (KBS) (KLAB)	
BSCI 21010 ANATOMY AND PHYSIOLOGY I (KBS) (KLAB) or or ANATOMY AND PHYSIOLOGY II BSCI 2102	
CHEM 10050 FUNDAMENTALS OF CHEMISTRY (KBS) or or MOLECULES OF LIFE (KBS) CHEM 10055	3
HED 14020 MEDICAL TERMINOLOGY or or MEDICAL TERMINOLOGY AHS 24010	1-3
MATH 11009 MODELING ALGEBRA (KMCR) or or ALGEBRA FOR CALCULUS (KMCR) MATH 11010	3-4
PSYC 11762 GENERAL PSYCHOLOGY (DIVD) (KSS)	3
UC 10097 DESTINATION KENT STATE: FIRST YEAR EXPERIENCE	1
Kent Core Requirement	3
Kent Core Requirement	3
Credit Hours	63
<b>Semester One</b>	
Kent Core Requirement	3
Kent Core Requirement	3
Kent Core Requirement	3
Kent Core Requirement	3
General Electives	3
Credit Hours	15
<b>Semester Two</b>	
Kent Core Requirement	3
Kent Core Requirement	3
General Electives	5
Credit Hours	11
<b>Semester Three</b>	
! RIS 34084 COMPUTED TOMOGRAPHY AND MAGNETIC RESONANCE IMAGING SECTIONAL ANATOMY I	2
! RIS 44003 MAGNETIC RESONANCE IMAGING CLINICAL EDUCATION I	2
! RIS 44031 PATIENT MANAGEMENT IN MAGNETIC RESONANCE IMAGING	2
! RIS 44044 MAGNETIC RESONANCE IMAGING PROCEDURES I	2
! RIS 44051 MAGNETIC RESONANCE EQUIPMENT AND IMAGE ACQUISITION I	2
! RIS 44088 LEADERSHIP IN MEDICAL IMAGING	1
! RIS 44096 INDIVIDUAL INVESTIGATION IN MEDICAL IMAGING DIRECTED READINGS	3
Credit Hours	14

<b>Semester Four</b>			
!	RIS 34086	COMPUTED TOMOGRAPHY AND MAGNETIC RESONANCE IMAGING SECTIONAL ANATOMY II	2
!	RIS 44045	MAGNETIC RESONANCE IMAGING PROCEDURES II	2
!	RIS 44052	MAGNETIC RESONANCE EQUIPMENT AND IMAGE ACQUISITION II	2
!	RIS 44063	MAGNETIC RESONANCE IMAGING CLINICAL EDUCATION II	2
!	RIS 44083	PATHOPHYSIOLOGY FOR MEDICAL IMAGING	3
!	RIS 44098	RESEARCH IN MEDICAL IMAGING (ELR) (WIC)	3
Credit Hours			14
<b>Second Summer Term</b>			
!	RIS 44066	MAGNETIC RESONANCE IMAGING TECHNIQUES	2
!	RIS 44073	MAGNETIC RESONANCE IMAGING CLINICAL EDUCATION III	1
Credit Hours			3
Minimum Total Credit Hours:			120

## Magnetic Resonance Imaging Concentration for A.T.S. Radiologic Technology graduates (with certification)

This roadmap is a recommended semester-by-semester plan of study for this major. However, courses designated as critical (!) must be completed in the semester listed to ensure a timely graduation.

Semester Prerequisite		Credits
!	Associate of Technical Studies in Radiologic Technology	32
	BSCI 10001 HUMAN BIOLOGY (KBS)	3
	CHEM 10050 FUNDAMENTALS OF CHEMISTRY (KBS) or CHEM 10055 or MOLECULES OF LIFE (KBS)	3
	CIS 24053 INTRODUCTION TO COMPUTER APPLICATIONS or CS 10001 or COMPUTER LITERACY or IT 11000 or INTRODUCTION TO OFFICE PRODUCTIVITY APPS	3
	MATH 11009 MODELING ALGEBRA (KMCR) or MATH 11010 or ALGEBRA FOR CALCULUS (KMCR)	3-4
	PSYC 11762 GENERAL PSYCHOLOGY (DIVD) (KSS)	3
	UC 10097 DESTINATION KENT STATE: FIRST YEAR EXPERIENCE	1
	Kent Core Requirement	3
	Kent Core Requirement	3
	Kent Core Requirement	3
	Kent Core Requirement	3
	Kent Core Requirement	3
	Kent Core Requirement	3
	Credit Hours	66
<b>Semester One</b>		
	General Electives	9
	Credit Hours	9
<b>Semester Two</b>		
	Kent Core Requirement	3
	Kent Core Requirement	3
	Kent Core Requirement	1
	Credit Hours	7
<b>Semester Three</b>		
!	RIS 34084 COMPUTED TOMOGRAPHY AND MAGNETIC RESONANCE IMAGING SECTIONAL ANATOMY I	2
!	RIS 44003 MAGNETIC RESONANCE IMAGING CLINICAL EDUCATION I	2
!	RIS 44031 PATIENT MANAGEMENT IN MAGNETIC RESONANCE IMAGING	2
!	RIS 44044 MAGNETIC RESONANCE IMAGING PROCEDURES I	2
!	RIS 44051 MAGNETIC RESONANCE EQUIPMENT AND IMAGE ACQUISITION I	2
!	RIS 44088 LEADERSHIP IN MEDICAL IMAGING	1
!	RIS 44096 INDIVIDUAL INVESTIGATION IN MEDICAL IMAGING DIRECTED READINGS	3
	General Electives	2
	Credit Hours	16
<b>Semester Four</b>		
!	RIS 34086 COMPUTED TOMOGRAPHY AND MAGNETIC RESONANCE IMAGING SECTIONAL ANATOMY II	2
!	RIS 44045 MAGNETIC RESONANCE IMAGING PROCEDURES II	2

!	RIS 44052	MAGNETIC RESONANCE EQUIPMENT AND IMAGE ACQUISITION II	2
!	RIS 44063	MAGNETIC RESONANCE IMAGING CLINICAL EDUCATION II	2
!	RIS 44083	PATHOPHYSIOLOGY FOR MEDICAL IMAGING	3
	RIS 44098	RESEARCH IN MEDICAL IMAGING (ELR) (WIC)	3
	Credit Hours		14
<b>Second Summer Term</b>			
	RIS 44066	MAGNETIC RESONANCE IMAGING TECHNIQUES	2
	RIS 44073	MAGNETIC RESONANCE IMAGING CLINICAL EDUCATION III	1
	General Electives		5
	Credit Hours		8
	Minimum Total Credit Hours:		120

## Radiation Therapy Concentration for A.S. Degree graduates or Freshman

This roadmap is a recommended semester-by-semester plan of study for this major. However, courses designated as critical (!) must be completed in the semester listed to ensure a timely graduation.

Semester One		Credits
CIS 24053	INTRODUCTION TO COMPUTER APPLICATIONS	3
or CS 10001	or COMPUTER LITERACY	
or IT 11000	or INTRODUCTION TO OFFICE PRODUCTIVITY APPS	
PSYC 11762	GENERAL PSYCHOLOGY (DIVD) (KSS)	3
UC 10097	DESTINATION KENT STATE: FIRST YEAR EXPERIENCE	1
Kent Core Requirement		3
General Electives		2
Credit Hours		12
Semester Two		
MATH 11009	MODELING ALGEBRA (KMCR)	3-4
or	or ALGEBRA FOR CALCULUS (KMCR)	
MATH 11010		
Kent Core Requirement		3
Kent Core Requirement		3
General Electives		3
Credit Hours		12
Semester Three		
Kent Core Requirement		3
Kent Core Requirement		3
General Electives		6
Credit Hours		12
Semester Four		
COMM 15000	INTRODUCTION TO HUMAN COMMUNICATION (KADL)	3
Kent Core Requirement		3
Kent Core Requirement		3
General Electives		7
Credit Hours		16
Semester Five		
BSCI 11010	FOUNDATIONAL ANATOMY AND PHYSIOLOGY I (KBS) (KLAB)	3-4
or	or FOUNDATIONAL ANATOMY AND PHYSIOLOGY II (KBS) (KLAB)	
BSCI 11020		
General Electives		6
Credit Hours		10
Semester Six		
HED 14020	MEDICAL TERMINOLOGY	3
PHY 13001	GENERAL COLLEGE PHYSICS I (KBS)	3-5
& PHY 13021	and GENERAL COLLEGE PHYSICS LABORATORY I (KBS) (KLAB)	
or	or PHYSICS FOR HEALTH TECHNOLOGIES	
PHY 12111		
BSCI 11020	FOUNDATIONAL ANATOMY AND PHYSIOLOGY II (KBS) (KLAB)	3-4
or	or ANATOMY AND PHYSIOLOGY II	
BSCI 21020		
General Electives		3
Credit Hours		13
Semester Seven		
! RIS 34003	RADIATION THERAPY PRINCIPLES AND PRACTICE I	3
! RIS 34004	RADIATION THERAPY PATIENT MANAGEMENT	3

! RIS 34008	RADIATION THERAPY PHYSICS I	3
! RIS 34030	RADIATION THERAPY CLINICAL EDUCATION I	1
! RIS 34083	SECTIONAL ANATOMY IN MEDICAL IMAGING	3
RIS 44000	INTRODUCTION TO RADIATION THERAPY	2
Credit Hours		15
Semester Eight		
! RIS 44009	RADIATION THERAPY PRINCIPLES AND PRACTICE II	2
! RIS 44018	RADIATION THERAPY PHYSICS II	3
! RIS 44029	RADIATION THERAPY PATHOLOGY I	3
! RIS 44053	RADIATION THERAPY CLINICAL EDUCATION II	3
! RIS 44098	RESEARCH IN MEDICAL IMAGING (ELR) (WIC)	3
Credit Hours		14
Fourth Summer Term		
! RIS 44028	RADIATION THERAPY RADIOBIOLOGY	3
! RIS 44042	RADIATION THERAPY PATHOLOGY II	3
RIS 44058	RADIATION THERAPY CLINICAL EDUCATION III	2
Credit Hours		8
Semester Nine		
! RIS 44038	RADIATION THERAPY PHYSICS III	3
! RIS 44041	RADIATION THERAPY QUALITY MANAGEMENT	2
RIS 44067	RADIATION THERAPY CLINICAL EDUCATION IV	3
Credit Hours		8
Minimum Total Credit Hours:		120



## Radiation Therapy Concentration for A.A.S. Radiologic Technology graduates

This roadmap is a recommended semester-by-semester plan of study for this major. However, courses designated as critical (!) must be completed in the semester listed to ensure a timely graduation.

Semester Prerequisite	Credits
Technical requirements in Radiologic Technology	39
Biology (BSCI) Electives, choose from the following	6-8
BSCI 11010 FOUNDATIONAL ANATOMY AND PHYSIOLOGY I & BSCI 11020(KBS) (KLAB) and FOUNDATIONAL ANATOMY AND PHYSIOLOGY II (KBS) (KLAB)	
BSCI 21010 ANATOMY AND PHYSIOLOGY I (KBS) (KLAB) & BSCI 2102C and ANATOMY AND PHYSIOLOGY II	
CHEM 10050 FUNDAMENTALS OF CHEMISTRY (KBS) or or MOLECULES OF LIFE (KBS) CHEM 10055	3
HED 14020 MEDICAL TERMINOLOGY or or MEDICAL TERMINOLOGY AHS 24010	1-3
MATH 11009 MODELING ALGEBRA (KMCR) or or ALGEBRA FOR CALCULUS (KMCR) MATH 11010	3-4
PSYC 11762 GENERAL PSYCHOLOGY (DIVD) (KSS)	3
UC 10097 DESTINATION KENT STATE: FIRST YEAR EXPERIENCE	1
Kent Core Requirement	3
Kent Core Requirement	3
Credit Hours	62
<b>Semester One</b>	
COMM 15000 INTRODUCTION TO HUMAN COMMUNICATION (KADL)	3
Kent Core Requirement	3
Kent Core Requirement	3
Kent Core Requirement	3
Kent Core Requirement	3
Credit Hours	15
<b>Semester Two</b>	
! RIS 34003 RADIATION THERAPY PRINCIPLES AND PRACTICE I	3
! RIS 34004 RADIATION THERAPY PATIENT MANAGEMENT	3
! RIS 34008 RADIATION THERAPY PHYSICS I	3
! RIS 34030 RADIATION THERAPY CLINICAL EDUCATION I	1
! RIS 34083 SECTIONAL ANATOMY IN MEDICAL IMAGING	3
Credit Hours	13
<b>Semester Three</b>	
! RIS 44009 RADIATION THERAPY PRINCIPLES AND PRACTICE II	2
! RIS 44018 RADIATION THERAPY PHYSICS II	3
! RIS 44029 RADIATION THERAPY PATHOLOGY I	3
! RIS 44053 RADIATION THERAPY CLINICAL EDUCATION II	3
! RIS 44098 RESEARCH IN MEDICAL IMAGING (ELR) (WIC)	3
Credit Hours	14
<b>Second Summer Term</b>	
! RIS 44028 RADIATION THERAPY RADIOBIOLOGY	3
! RIS 44042 RADIATION THERAPY PATHOLOGY II	3
RIS 44058 RADIATION THERAPY CLINICAL EDUCATION III	2
Credit Hours	8

<b>Semester Five</b>		
! RIS 44038	RADIATION THERAPY PHYSICS III	3
! RIS 44041	RADIATION THERAPY QUALITY MANAGEMENT	2
RIS 44067	RADIATION THERAPY CLINICAL EDUCATION IV	3
Credit Hours		8
Minimum Total Credit Hours:		120

## Radiation Therapy Concentration for A.T.S. Radiologic Technology graduates (with certification)

This roadmap is a recommended semester-by-semester plan of study for this major. However, courses designated as critical (!) must be completed in the semester listed to ensure a timely graduation.

Semester Prerequisite	Credits
! Associate of Technical Studies in Radiologic Technology	32
BSCI 10001 HUMAN BIOLOGY (KBS)	3
CHEM 10050 FUNDAMENTALS OF CHEMISTRY (KBS) or CHEM 10055 or MOLECULES OF LIFE (KBS)	3
COMM 15000 INTRODUCTION TO HUMAN COMMUNICATION (KADL)	3
CIS 24053 INTRODUCTION TO COMPUTER APPLICATIONS or CS 10001 or COMPUTER LITERACY or IT 11000 or INTRODUCTION TO OFFICE PRODUCTIVITY APPS	3
MATH 11009 MODELING ALGEBRA (KMCR) or MATH 11010 or ALGEBRA FOR CALCULUS (KMCR)	3-4
PSYC 11762 GENERAL PSYCHOLOGY (DIVD) (KSS)	3
UC 10097 DESTINATION KENT STATE: FIRST YEAR EXPERIENCE	1
Kent Core Requirement	3
Kent Core Requirement	3
Kent Core Requirement	3
Kent Core Requirement	3
Kent Core Requirement	3
Credit Hours	66
<b>Semester One</b>	
COMM 15000 INTRODUCTION TO HUMAN COMMUNICATION (KADL)	3
Kent Core Requirement	3
Kent Core Requirement	1
General Electives	4
Credit Hours	11
<b>Semester Two</b>	
! RIS 34003 RADIATION THERAPY PRINCIPLES AND PRACTICE I	3
! RIS 34004 RADIATION THERAPY PATIENT MANAGEMENT	3
! RIS 34008 RADIATION THERAPY PHYSICS I	3
! RIS 34030 RADIATION THERAPY CLINICAL EDUCATION I	1
! RIS 34083 SECTIONAL ANATOMY IN MEDICAL IMAGING	3
Credit Hours	13
<b>Semester Three</b>	
! RIS 44009 RADIATION THERAPY PRINCIPLES AND PRACTICE II	2
! RIS 44018 RADIATION THERAPY PHYSICS II	3
! RIS 44029 RADIATION THERAPY PATHOLOGY I	3
! RIS 44053 RADIATION THERAPY CLINICAL EDUCATION II	3
! RIS 44098 RESEARCH IN MEDICAL IMAGING (ELR) (WIC)	3
Credit Hours	14
<b>Second Summer Term</b>	
! RIS 44028 RADIATION THERAPY RADIOBIOLOGY	3
! RIS 44042 RADIATION THERAPY PATHOLOGY II	3
RIS 44058 RADIATION THERAPY CLINICAL EDUCATION III	2
Credit Hours	8

Semester Five		
! RIS 44038	RADIATION THERAPY PHYSICS III	3
! RIS 44041	RADIATION THERAPY QUALITY MANAGEMENT	2
RIS 44067	RADIATION THERAPY CLINICAL EDUCATION IV	3
Credit Hours		8
Minimum Total Credit Hours:		120

## Radiologic Technology - A.A.S.

### College of Applied and Technical Studies

cats@kent.edu

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## Description

The Associate of Applied Science degree in Radiologic Technology educates students on how to perform diagnostic imaging procedures. Medical imaging is a branch of health care delivery that utilizes x-rays and other energy forms to aid in the diagnosis and treatment of medical conditions. Through a blend of classroom education at the university and clinical education at a hospital, students learn anatomy, patient positioning, examination techniques, radiation safety, basic patient care and imaging equipment operation.

Graduates are eligible to take the certification examination administered by the American Registry of Radiologic Technologists (ARRT) to become registered radiologic technologists.

### Fully Offered At:

- Ashtabula Campus
- Salem Campus

## Accreditation

The A.A.S. degree in Radiologic Technology is accredited by the Joint Review Committee on Education in Radiologic Technology (JRCERT).

## Admission Requirements

The university affirmatively strives to provide educational opportunities and access to students with varied backgrounds, those with special talents and adult students who graduated from high school three or more years ago.

Kent State campuses at Ashtabula, East Liverpool, Geauga, Salem, Stark, Trumbull and Tuscarawas, and the Twinsburg Academic Center, have open enrollment admission for students who hold a high school diploma, GED or equivalent.

For more information on admissions, contact the Regional Campuses admissions offices.

## Program Learning Outcomes

Graduates of this program will be able to:

1. Utilize critical thinking and problem-solving skills effectively in the practice of radiologic technology.
2. Communicate effectively in oral and written form with patients families and members of the health care team.

- Perform radiographic procedures successfully and consistent with entry-level requirements of a registered radiologic technologist.
- Determine the value of professional growth and development and to conduct themselves in a professional manner.

## University Requirements

All students in an applied or technical associate degree program at Kent State University must complete the following university requirements for graduation.

**NOTE:** University requirements may be fulfilled in this program by specific course requirements, please see Program Requirements for details.

Code	Title	Credit Hours
	Destination Kent State: First Year Experience	1
	Course is not required for students with 25 transfer credits, excluding College Credit Plus, or age 21+ at time of admission.	
	Kent Core (see table below)	15
	Total Credit Hour Requirement	60
	Some associate degrees require students to complete more than 60 credit hours.	

## Kent Core Requirements

Kent Core Composition (KCOMP)	3
Kent Core Mathematics and Critical Reasoning (KMCR)	3
Kent Core Humanities and Fine Arts (KHUM/KFA)	3
Kent Core Social Sciences (KSS)	3
Kent Core Basic Sciences (KBS/KLAB)	3
<b>Total Credit Hours:</b>	<b>15</b>

## Program Requirements

### Major Requirements

Code	Title	Credit Hours
<b>Major Requirements (courses count in major GPA; min C grade required in all courses)</b>		
RADT 14003	INTRODUCTION TO RADIOLOGIC TECHNOLOGY	2
RADT 14005	CLINICAL EDUCATION I	1
RADT 14006	RADIOGRAPHIC PROCEDURES I	1
RADT 14015	CLINICAL EDUCATION II	3
RADT 14018	IMAGING EQUIPMENT	2
RADT 14021	RADIOGRAPHIC PROCEDURES II	4
RADT 14024	RADIOGRAPHIC PROCEDURES III	4
RADT 14025	CLINICAL EDUCATION III	3
RADT 14034	IMAGE ACQUISITION AND PROCESSING	2
RADT 14085	CLINICAL EDUCATION IV	2
RADT 24008	RADIOBIOLOGY AND RADIATION PROTECTION	3
RADT 24016	IMAGING PHYSICS	3
RADT 24015	CLINICAL EDUCATION V	3
RADT 24025	CLINICAL EDUCATION VI	3
<b>Additional Requirements (courses do not count in major GPA)</b>		
AHS 14016	PATIENT CARE MANAGEMNT	2
AHS 24010	MEDICAL TERMINOLOGY	1-3
or HED 14020	MEDICAL TERMINOLOGY	
AHS 24014	ADVANCED IMAGING	2
AHS 24028	RADIOLOGIC PATHOLOGY	3

BSCI 11010	FOUNDATIONAL ANATOMY AND PHYSIOLOGY I (KBS) (KLAB) (min C grade) <sup>1</sup>	3
BSCI 11020	FOUNDATIONAL ANATOMY AND PHYSIOLOGY II (KBS) (KLAB) (min C grade) <sup>1</sup>	3
CHEM 10050	FUNDAMENTALS OF CHEMISTRY (KBS)	3
or CHEM 10055	MOLECULES OF LIFE (KBS)	
MATH 11009	MODELING ALGEBRA (KMCR)	3-4
or MATH 11010	ALGEBRA FOR CALCULUS (KMCR)	
PSYC 11762	GENERAL PSYCHOLOGY (DIVD) (KSS)	3
UC 10097	DESTINATION KENT STATE: FIRST YEAR EXPERIENCE	1
	Kent Core Composition	3
	Kent Core Humanities and Fine Arts	3
	Minimum Total Credit Hours:	66

<sup>1</sup> Students who have completed BSCI 21010 and BSCI 21020 (or ATTR 25057 and ATTR 25058, or EXSC 25057 and EXSC 25058) may use these courses in place of BSCI 11010 and BSCI 11020, but the courses must have been completed within the past five years prior to admission to the program.

## Progression Requirements

To be able to register for Radiologic Technology (RADT) courses, students must be admitted to technical study. Admission is selective due to the limited number of students approved for each clinical education setting. Admission criteria are the following:

- Minimum 2.75 high school GPA (minimum 2.75 overall GPA for applicants previously or currently attending a college)
- Completion of high school or college-level algebra course (or MATH 00022) with minimum C grade
- Completion of high school or college-level biology course with minimum C grade
- Completion of high school or college-level chemistry course with minimum C grade
- Minimum four hours of job shadowing (eight hours preferred)
- Submission of a Radiologic Technology application
- Interview

## Graduation Requirements

Minimum Major GPA	Minimum Overall GPA
2.000	2.000

- A minimum grade of C grade is required in most courses; view the program requirements to see specific courses.

## Roadmap

This roadmap is a recommended semester-by-semester plan of study for this major. However, courses designated as critical (!) must be completed in the semester listed to ensure a timely graduation.

Summer 1		Credits
AHS 24010 or HED 14020	MEDICAL TERMINOLOGY or MEDICAL TERMINOLOGY	1-3
RADT 14003	INTRODUCTION TO RADIOLOGIC TECHNOLOGY	2
RADT 14005	CLINICAL EDUCATION I	1
RADT 14006	RADIOGRAPHIC PROCEDURES I	1
UC 10097	DESTINATION KENT STATE: FIRST YEAR EXPERIENCE	1
Credit Hours		6
Summer 2		
RADT 14085	CLINICAL EDUCATION IV	2
Kent Core Requirement		3
Kent Core Requirement		3
Credit Hours		8
Semester One		
AHS 14016	PATIENT CARE MANAGEMNT	2
BSCI 11010	FOUNDATIONAL ANATOMY AND PHYSIOLOGY I (KBS) (KLAB)	3
! RADT 14015	CLINICAL EDUCATION II	3
! RADT 14018	IMAGING EQUIPMENT	2
! RADT 14021	RADIOGRAPHIC PROCEDURES II	4
Credit Hours		14
Semester Two		
BSCI 11020	FOUNDATIONAL ANATOMY AND PHYSIOLOGY II (KBS) (KLAB)	3
CHEM 10050 or CHEM 10055	FUNDAMENTALS OF CHEMISTRY (KBS) or MOLECULES OF LIFE (KBS)	3
RADT 14034	IMAGE ACQUISITION AND PROCESSING	2
! RADT 14024	RADIOGRAPHIC PROCEDURES III	4
! RADT 14025	CLINICAL EDUCATION III	3
Credit Hours		15
Semester Three		
AHS 24014	ADVANCED IMAGING	2
MATH 11009 or MATH 11010	MODELING ALGEBRA (KMCR) or ALGEBRA FOR CALCULUS (KMCR)	3-4
! RADT 24008	RADIOBIOLOGY AND RADIATION PROTECTION	3
! RADT 24015	CLINICAL EDUCATION V	3
RADT 24016	IMAGING PHYSICS	3
Credit Hours		14
Semester Four		
AHS 24028	RADIOLOGIC PATHOLOGY	3
PSYC 11762	GENERAL PSYCHOLOGY (DIVD) (KSS)	3
! RADT 24025	CLINICAL EDUCATION VI	3
Credit Hours		9
Minimum Total Credit Hours:		66

## Radiologic Technology - A.T.S.

College of Applied and Technical Studies  
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## Description

The Associate of Technical Study degree in Radiologic Technology offers a completion program to graduates of certificate programs in radiologic technology. Kent State University awards college credit for the hospital-based program and American Registry of Radiologic Technologists certification.

The degree program articulates to Kent State's Bachelor of Radiologic and Imaging Sciences Technology degree.

The Radiologic Technology major includes the following optional concentration:

- Radiology Department Management Technology

## Fully Offered At:

- Salem Campus

## Accreditation

The A.T.S. degree in Radiologic Technology is accredited by the Joint Review Committee on Education in Radiologic Technology (JRCERT).

## Admission Requirements

The university affirmatively strives to provide educational opportunities and access to students with varied backgrounds, those with special talents and adult students who graduated from high school three or more years ago.

Kent State campuses at Ashtabula, East Liverpool, Geauga, Salem, Stark, Trumbull and Tuscarawas, and the Twinsburg Academic Center, have open enrollment admission for students who hold a high school diploma, GED or equivalent.

For more information on admissions, contact the Regional Campuses admissions offices.

## Program Learning Outcomes

Graduates of this program will be able to:

1. Demonstrate oral and written communication skills
2. Use mathematics, science and computer skills in radiology.
3. Improve patient care skills

## University Requirements

All students in an applied or technical associate degree program at Kent State University must complete the following university requirements for graduation.

**NOTE:** University requirements may be fulfilled in this program by specific course requirements, please see Program Requirements for details.

Code	Title	Credit Hours
	Destination Kent State: First Year Experience	1
	Course is not required for students with 25 transfer credits, excluding College Credit Plus, or age 21+ at time of admission.	

Kent Core (see table below)	15
<b>Total Credit Hour Requirement</b>	<b>60</b>
Some associate degrees require students to complete more than 60 credit hours.	

### Kent Core Requirements

Kent Core Composition (KCOMP)	3
Kent Core Mathematics and Critical Reasoning (KMCR)	3
Kent Core Humanities and Fine Arts (KHUM/KFA)	3
Kent Core Social Sciences (KSS)	3
Kent Core Basic Sciences (KBS/KLAB)	3
<b>Total Credit Hours:</b>	<b>15</b>

## Program Requirements

### Major Requirements

Code	Title	Credit Hours
<b>Additional Requirements (courses do not count in major GPA)</b>		
UC 10097	DESTINATION KENT STATE: FIRST YEAR EXPERIENCE	1
Kent Core Composition <sup>1</sup>		6
<b>Additional Major Requirements or Concentration</b>		
Choose from the following:		59-60
Additional Requirements for Students Not Declaring a Concentration		
Radiology Department Management Technology		
Minimum Total Credit Hours:		66-67

<sup>1</sup> 3 credit hours are required for Kent Core (University Requirements). This program requires a total of 6 credit hours to earn the degree.

### Additional Requirements for Students Not Declaring a Concentration

Code	Title	Credit Hours
<b>Prerequisite Requirements</b>		
Credits awarded on the basis of certification by the American Registry of Radiologic Technologists <sup>1</sup>		32
<b>Additional Requirements (courses do not count in major GPA)</b>		
BSCI 10001	HUMAN BIOLOGY (KBS)	3
CHEM 10050	FUNDAMENTALS OF CHEMISTRY (KBS)	3
or CHEM 10055	MOLECULES OF LIFE (KBS)	
IT 11000	INTRODUCTION TO OFFICE PRODUCTIVITY APPS	3
or CS 10001	COMPUTER LITERACY	
or CIS 24053	INTRODUCTION TO COMPUTER APPLICATIONS	
MATH 11009	MODELING ALGEBRA (KMCR)	3-4
or MATH 11010	ALGEBRA FOR CALCULUS (KMCR)	
PSYC 11762	GENERAL PSYCHOLOGY (DIVD) (KSS)	3
Kent Core Additional <sup>3</sup>		3
Kent Core Humanities and Fine Arts <sup>2</sup>		6
Kent Core Social Sciences		3
Minimum Total Credit Hours:		59

<sup>1</sup> On the basis of certification, maximum 32 credit hours are awarded only after the completion of program requirements

<sup>2</sup> 3 credit hours are required for Kent Core (University Requirements). This program requires a total of 6 credit hours to to earn the non-concentration option in the degree.

<sup>3</sup> This program requires a total of 3 credit hours of Additional Kent Core to earn the non-concentration option in the degree.

## Radiology Department Management Technology Concentration Requirements

Code	Title	Credit Hours
<b>Prerequisite Requirements</b>		
Credits awarded on the basis of certification by the American Registry of Radiologic Technologists <sup>1</sup>		30
<b>Major Requirements (courses count in major GPA)</b>		
BMRT 11000	INTRODUCTION TO BUSINESS	3
or BUS 10123	EXPLORING BUSINESS	
BMRT 11009	INTRODUCTION TO MANAGEMENT TECHNOLOGY	3
or MGMT 24163	PRINCIPLES OF MANAGEMENT	
BMRT 21000	BUSINESS LAW AND ETHICS I	3
or FIN 26074	LEGAL ENVIRONMENT OF BUSINESS	
BMRT 31006	HUMAN RESOURCE MANAGEMENT	3
or HRM 34180	HUMAN RESOURCE MANAGEMENT	
BMRT 21050	FUNDAMENTALS OF MARKETING TECHNOLOGY	3
or MKTG 25010	PRINCIPLES OF MARKETING	
COMM 15000	INTRODUCTION TO HUMAN COMMUNICATION (KADL)	3
ECON 22060	PRINCIPLES OF MICROECONOMICS (KSS)	3
MATH 11010	ALGEBRA FOR CALCULUS (KMCR)	3
Kent Core Basic Sciences		3
Kent Core Humanities and Fine Arts		3
Minimum Total Credit Hours:		60

<sup>1</sup> On the basis of certification, maximum 30 credit hours are awarded only after the completion of program requirements

## Graduation Requirements

Minimum Major GPA	Minimum Overall GPA
2.000	2.000



## Roadmaps

- Radiologic Technology (No Concentration)
- Radiology Department Management Technology Concentration

### Radiologic Technology (No Concentration)

This roadmap is a recommended semester-by-semester plan of study for this major. However, courses designated as critical (!) must be completed in the semester listed to ensure a timely graduation.

Semester Prerequisite		Credits
Credits awarded on the basis of certification by the American Registry of Radiologic Technologists		32
Credit Hours		32
<b>Semester One</b>		
IT 11000	INTRODUCTION TO OFFICE PRODUCTIVITY APPS	3
or CS 10001	or COMPUTER LITERACY	
or CIS 24053	or INTRODUCTION TO COMPUTER APPLICATIONS	
MATH 11009	MODELING ALGEBRA (KMCR)	3-4
or	or ALGEBRA FOR CALCULUS (KMCR)	
MATH 11010		
PSYC 11762	GENERAL PSYCHOLOGY (DIVD) (KSS)	3
UC 10097	DESTINATION KENT STATE: FIRST YEAR EXPERIENCE	1
Kent Core Requirement		3
Credit Hours		13
<b>Semester Two</b>		
BSCI 10001	HUMAN BIOLOGY (KBS)	3
Kent Core Requirement		3
Kent Core Requirement		3
Kent Core Requirement		3
Credit Hours		12
<b>Semester Three</b>		
CHEM 10050	FUNDAMENTALS OF CHEMISTRY (KBS)	3
or	or MOLECULES OF LIFE (KBS)	
CHEM 10055		
Kent Core Requirement		3
Kent Core Requirement		3
Credit Hours		9
Minimum Total Credit Hours:		66

## Radiology Department Management Technology Concentration

This roadmap is a recommended semester-by-semester plan of study for this major. However, courses designated as critical (!) must be completed in the semester listed to ensure a timely graduation.

Semester Prerequisite		Credits
Credits awarded on the basis of certification by the American Registry of Radiologic Technologists		30
Credit Hours		30
<b>Semester One</b>		
BMRT 11000 or BUS 10123	INTRODUCTION TO BUSINESS or EXPLORING BUSINESS	3
BMRT 11009 or MGMT 24163	INTRODUCTION TO MANAGEMENT TECHNOLOGY or PRINCIPLES OF MANAGEMENT	3
MATH 11010	ALGEBRA FOR CALCULUS (KMCR)	3
UC 10097	DESTINATION KENT STATE: FIRST YEAR EXPERIENCE	1
Kent Core Requirement		3
Credit Hours		13
<b>Semester Two</b>		
BMRT 31006 or HRM 34180	HUMAN RESOURCE MANAGEMENT or HUMAN RESOURCE MANAGEMENT	3
ECON 22060	PRINCIPLES OF MICROECONOMICS (KSS)	3
Kent Core Requirement		3
Kent Core Requirement		3
Credit Hours		12
<b>Semester Three</b>		
BMRT 21000 or FIN 26074	BUSINESS LAW AND ETHICS I or LEGAL ENVIRONMENT OF BUSINESS	3
BMRT 21050 or MKTG 25010	FUNDAMENTALS OF MARKETING TECHNOLOGY or PRINCIPLES OF MARKETING	3
COMM 15000	INTRODUCTION TO HUMAN COMMUNICATION (KADL)	3
Kent Core Requirement		3
Credit Hours		12
Minimum Total Credit Hours:		67

## Respiratory Care - B.S.

### College of Applied and Technical Studies

cats@kent.edu  
www.kent.edu/cats

## Description

The Bachelor of Science degree in Respiratory Care is a complete program designed to prepare qualified respiratory therapists with the necessary knowledge and skills to develop professionalism and advance their careers in the areas of leadership, management, education, research, disease and sleep medicine utilizing best practices in order to advance the practice of respiratory care.

## Fully Offered At:

- Online

## Accreditation

Commission on Accreditation for Respiratory Care (CoARC)

## Admission Requirements

Admission to the Respiratory Care major is selective. Applicants must hold an active credential for certified respiratory therapist (CRT) or registered respiratory therapist (RRT) and an associate degree from a CoARC-accredited respiratory therapy/care program with a minimum 2.000 overall GPA.

Applicants who are actively enrolled and in good standing in the second year of a CoARC-accredited entry-level associate degree in respiratory therapy/care or are actively enrolled and in good standing in the third year of a CoARC-accredited bachelor's degree in respiratory therapy/care may be conditionally enrolled in the program.

### English Language Proficiency Requirements for International Students:

All international students must provide proof of English language proficiency (unless they meet specific exceptions) by earning a minimum 525 TOEFL score (71 on the Internet-based version), minimum 75 MELAB score, minimum 6.0 IELTS score or minimum 48 PTE Academic score, or by completing the ELS level 112 Intensive Program. For more information on international admission, visit the Office of Global Education's admission website.

## Program Learning Outcomes

Graduates of this program will be able to:

1. Incorporate theory, research, evidence and best practices to enhance respiratory care practice.
2. Understand leadership and management principles as it relates to the function and organizational structure of the respiratory care department.
3. Understand the purpose and application of key elements of professionalism in the practice of respiratory care.
4. Demonstrate techniques and strategies of teaching and learning of respiratory therapy utilized in various venues.
5. Identify a variety of sleep and breathing disorders and exhibit a fundamental understanding of the application and interpretation of sleep studies in the diagnosis of related disorders.
6. Apply critical thinking in the area of managing chronic disease and the impact healthcare professionals have on affecting positive patient population outcomes.
7. Describe research methodology and design and their application to health science research and their application to everyday health care.
8. Exhibit knowledge in specified areas of advanced respiratory care practice.
9. Identify and analyze current contemporary issues in respiratory care and their impact on the profession and delivery of care.
10. Understand information management and information systems, technology and the human/technology interface utilized in professional healthcare practices.

## University Requirements

All students in a bachelor's degree program at Kent State University must complete the following university requirements for graduation.

**NOTE:** University requirements may be fulfilled in this program by specific course requirements. Please see Program Requirements for details.

Destination Kent State: First Year Experience	1
Course is not required for students with 25 transfer credits, excluding College Credit Plus, or age 21+ at time of admission.	
Diversity Domestic/Global (DIVD/DIVG)	2 courses
Students must successfully complete one domestic and one global course, of which one must be from the Kent Core.	
Experiential Learning Requirement (ELR)	varies
Students must successfully complete one course or approved experience.	
Kent Core (see table below)	36-37
Writing-Intensive Course (WIC)	1 course
Students must earn a minimum C grade in the course.	
Upper-Division Requirement	39 (or 42)
Students must successfully complete 39 upper-division (numbered 30000 to 49999) credit hours to graduate. Students in a B.A. and/or B.S. degree in the College of Arts and Sciences must complete 42 upper-division credit hours.	
Total Credit Hour Requirement	120
Some bachelor's degrees require students to complete more than 120 credit hours.	

## Kent Core Requirements

Kent Core Composition (KCOMP)	6
Kent Core Mathematics and Critical Reasoning (KMCR)	3
Kent Core Humanities and Fine Arts (KHUM/KFA) (min one course each)	9
Kent Core Social Sciences (KSS) (must be from two disciplines)	6
Kent Core Basic Sciences (KBS/KLAB) (must include one laboratory)	6-7
Kent Core Additional (KADL)	6
<b>Total Credit Hours:</b>	<b>36-37</b>

## Program Requirements

### Major Requirements

Code	Title	Credit Hours
<b>Major Requirements (courses count in major GPA)</b>		
NURS 46000	HEALTH CARE POLICY	3
RSPC 30000	PROFESSIONAL PRACTICE IN RESPIRATORY CARE	3
RSPC 30002	LEADERSHIP AND MANAGEMENT IN RESPIRATORY CARE	3
RSPC 30004	EDUCATIONAL INSTRUCTION IN RESPIRATORY CARE	3
RSPC 30006	SLEEP MEDICINE AND POLYSOMNOGRAPHY	3
RSPC 40002	RESEARCH DEVELOPMENT IN RESPIRATORY CARE (WIC) <sup>1</sup>	3
RSPC 40004	ADVANCED PRACTICE IN RESPIRATORY CARE	3
RSPC 40006	CONTEMPORARY ISSUES AND TRENDS IN RESPIRATORY CARE	3

RSPC 40008	CHRONIC DISEASE MANAGEMENT PRINCIPLES	3
RSPC 40075	INFORMATION AND PATIENT CARE TECHNOLOGY FOR HEALTHCARE PROFESSIONALS	3
RSPC 41092	PRACTICUM FOR RESPIRATORY CARE (ELR)	3
<b>Additional Requirements (courses do not count in major GPA)</b>		
PSYC 11762	GENERAL PSYCHOLOGY (DIVD) (KSS)	3
LIS 30010	INFORMATION FLUENCY IN THE WORKPLACE AND BEYOND	3
UC 10097	DESTINATION KENT STATE: FIRST YEAR EXPERIENCE	1
Statistics Electives, choose from the following:		3-4
MATH 10041	INTRODUCTORY STATISTICS (KMCR)	
MATH 12022	PROBABILITY AND STATISTICS FOR LIFE SCIENCES <sup>2</sup>	
MATH 30011	BASIC PROBABILITY AND STATISTICS <sup>2</sup>	
MGMT 24056	BUSINESS ANALYTICS I	
PH 30002	INTRODUCTORY BIostatISTICS	
PSYC 21621	QUANTITATIVE METHODS IN PSYCHOLOGY I	
SOC 32220 & SOC 32221	DATA ANALYSIS and DATA ANALYSIS LABORATORY	
Kent Core Composition		6
Kent Core Mathematics and Critical Reasoning		3
Kent Core Humanities and Fine Arts (minimum one course from each)		9
Kent Core Social Sciences		3
Kent Core Basic Sciences (must include one laboratory)		6-7
Kent Core Additional		6
General Electives (total credit hours depends on earning 120 credit hours, including 39 upper-division credit hours) <sup>3</sup>		44
Minimum Total Credit Hours:		120

<sup>1</sup> A minimum C grade must be earned to fulfill the writing-intensive requirement.

<sup>2</sup> MATH 12022 and MATH 30011 are not offered online presently.

<sup>3</sup> The majority of general elective credit hours may be transfer courses from an associate degree in respiratory care/therapy.

## Progression Requirements

To be able to register for Respiratory Care (RSPC) courses, students must be admitted to professional study. Admission is a selective process. Criteria for admission are the following:

- Official transcript of associate degree
- Evidence of earned CRT or RRT credential
- Evidence of current active license to practice respiratory therapy
- Minimum C grade in PSYC 11762 (or equivalent)

## Graduation Requirements

Minimum Major GPA	Minimum Overall GPA
2.000	2.000

## Roadmap

This roadmap is a recommended semester-by-semester plan of study for this major. However, courses designated as critical (!) must be completed in the semester listed to ensure a timely graduation.

Semester Prerequisite		Credits
PSYC 11762	GENERAL PSYCHOLOGY (DIVD) (KSS)	3
Transfer courses from associate degree in respiratory care/therapy		41
Kent Core Requirements		15
Credit Hours		59
Semester One		
UC 10097	DESTINATION KENT STATE: FIRST YEAR EXPERIENCE	1
Statistics Elective		3
Kent Core Requirement		3
Kent Core Requirement		3
Kent Core Requirement		3
Kent Core Requirement		3
Credit Hours		16
Semester Two		
LIS 30010	INFORMATION FLUENCY IN THE WORKPLACE AND BEYOND	3
! RSPC 30002	LEADERSHIP AND MANAGEMENT IN RESPIRATORY CARE	3
! RSPC 30004	EDUCATIONAL INSTRUCTION IN RESPIRATORY CARE	3
! RSPC 40002	RESEARCH DEVELOPMENT IN RESPIRATORY CARE (WIC)	3
! RSPC 40004	ADVANCED PRACTICE IN RESPIRATORY CARE	3
Credit Hours		15
Semester Three		
! RSPC 30000	PROFESSIONAL PRACTICE IN RESPIRATORY CARE	3
! RSPC 30006	SLEEP MEDICINE AND POLYSOMNOGRAPHY	3
Kent Core Requirement		6
General Elective		3
Credit Hours		15
Semester Four		
! RSPC 40006	CONTEMPORARY ISSUES AND TRENDS IN RESPIRATORY CARE	3
! RSPC 40008	CHRONIC DISEASE MANAGEMENT PRINCIPLES	3
! RSPC 40075	INFORMATION AND PATIENT CARE TECHNOLOGY FOR HEALTHCARE PROFESSIONALS	3
! NURS 46000	HEALTH CARE POLICY	3
! RSPC 41092	PRACTICUM FOR RESPIRATORY CARE (ELR)	3
Credit Hours		15
Minimum Total Credit Hours:		120

## Respiratory Therapy Technology - A.A.S.

### College of Applied and Technical Studies

cats@kent.edu

www.kent.edu/cats

## Description

The Associate of Applied Science degree in Respiratory Therapy Technology provides students the skills to evaluate, treat and care for patients with breathing or other cardiopulmonary disorders. Practicing under the direction of a physician, respiratory therapists assume

primary responsibility for all respiratory care therapeutic treatments and diagnostic procedures. Respiratory therapists also provide complex therapy requiring considerable independent judgment, such as caring for patients on life support in intensive-care units of hospitals.

Graduates of the program are eligible to take national credentialing examinations administered by the National Board for Respiratory Care to become Certified and Registered Respiratory Therapists (CRT, RRT), Certified and Registered Pulmonary Function Technologists (CPFT, RPFT) and Neonatal Pediatric Specialist (NPS).

### Fully Offered At:

- Ashtabula Campus

## Accreditation

The A.A.S. degree in Respiratory Therapy Technology is accredited by the Commission on Accreditation for Respiratory Care.

## Admission Requirements

The university affirmatively strives to provide educational opportunities and access to students with varied backgrounds, those with special talents and adult students who graduated from high school three or more years ago.

Kent State campuses at Ashtabula, East Liverpool, Geauga, Salem, Stark, Trumbull and Tuscarawas, and the Twinsburg Academic Center, have open enrollment admission for students who hold a high school diploma, GED or equivalent.

For more information on admissions, contact the Regional Campuses admissions offices.

## Program Learning Outcomes

Graduates of this program will be able to:

1. Demonstrate knowledge of respiratory care principles, current theories and practices required of registered respiratory therapists as defined by the National Board of Respiratory Care (NBRC)
2. Exhibit, professionally and fluently, technical skills and procedures utilized in current practice by registered respiratory therapists
3. Express personal professional ethics and behaviors expected of registered respiratory therapists in practice to obtain and maintain a positive impact in patient care and inter-staff relations

## University Requirements

All students in an applied or technical associate degree program at Kent State University must complete the following university requirements for graduation.

**NOTE:** University requirements may be fulfilled in this program by specific course requirements, please see Program Requirements for details.

Code	Title	Credit Hours
	Destination Kent State: First Year Experience	1
	Course is not required for students with 25 transfer credits, excluding College Credit Plus, or age 21+ at time of admission.	
	Kent Core (see table below)	15
	Total Credit Hour Requirement	60

Some associate degrees require students to complete more than 60 credit hours.

## Kent Core Requirements

Kent Core Composition (KCMP)	3
Kent Core Mathematics and Critical Reasoning (KMCR)	3
Kent Core Humanities and Fine Arts (KHUM/KFA)	3
Kent Core Social Sciences (KSS)	3
Kent Core Basic Sciences (KBS/KLAB)	3
<b>Total Credit Hours:</b>	<b>15</b>

## Program Requirements

### Major Requirements

Code	Title	Credit Hours
<b>Major Requirements (courses count in major GPA; min C grade required in all courses)</b>		
RTT 10000	INTRODUCTION TO RESPIRATORY THERAPY	4
RTT 11003	APPLICATION AND MECHANISMS OF CARDIOPULMONARY ANATOMY AND PHYSIOLOGY	3
RTT 11004	THERAPEUTICS	6
RTT 11008	BLOOD GAS ANALYSIS	2
RTT 21000	CRITICAL CARE	4
RTT 21001	MECHANICAL VENTILATION	5
RTT 21003	PERINATAL AND PEDIATRIC RESPIRATORY THERAPY	2
RTT 21004	ADVANCED DIAGNOSTICS	3
RTT 21006	PULMONARY REHABILITATION AND CONTINUING CARE	1
RTT 21013	RESPIRATORY THERAPY CAPSTONE	2
<b>Additional Requirements (courses do not count in major GPA; min C grade required in all courses)</b>		
AHS 12000 or RTT 11001	BASIC PRINCIPLES OF PHARMACOLOGY RESPIRATORY CARE PHARMACOLOGY	2
BSCI 11010 or BSCI 21010	FOUNDATIONAL ANATOMY AND PHYSIOLOGY I (KBS) (KLAB) <sup>1</sup> ANATOMY AND PHYSIOLOGY I (KBS) (KLAB)	3-4
BSCI 11020 or BSCI 21020	FOUNDATIONAL ANATOMY AND PHYSIOLOGY II (KBS) (KLAB) <sup>1</sup> ANATOMY AND PHYSIOLOGY II	3-4
BSCI 20021 or BSCI 30171	BASIC MICROBIOLOGY GENERAL MICROBIOLOGY	3-4
PSYC 11762	GENERAL PSYCHOLOGY (DIVD) (KSS)	3
RTT 11002	CARDIOPULMONARY DISEASES	3
UC 10097	DESTINATION KENT STATE: FIRST YEAR EXPERIENCE	1
Chemistry Elective, choose from the following:		3-4
CHEM 10050	FUNDAMENTALS OF CHEMISTRY (KBS)	
CHEM 10055	MOLECULES OF LIFE (KBS)	
CHEM 10060	GENERAL CHEMISTRY I (KBS)	
CHEM 10061	GENERAL CHEMISTRY II (KBS)	
COMM 20001 or COMM 26501	INTERPERSONAL COMMUNICATION INTRODUCTION TO HEALTH COMMUNICATION	3
Kent Core Composition		3
Kent Core Mathematics and Critical Reasoning		3

Kent Core Humanities and Fine Arts	3
Minimum Total Credit Hours:	65

<sup>1</sup> Students who have successfully completed ATTR 25057 and ATTR 25058 (or EXSC 25057 and EXSC 25058) may use those courses in place of BSCI 11010 and BSCI 11020 (or BSCI 21010 and BSCI 21020).

## Progression Requirements

To be able to register for respiratory care (RTT) courses, students must be accepted to technical study. Acceptance is a selective process. Criteria for acceptance are the following;

- Minimum 2.700 overall GPA
- Completion, or placement out, of MATH 00022 (or equivalent)
- Completion of required first anatomy and physiology course with minimum C grade: BSCI 11010 or BSCI 21010 (or equivalent)
- Completion of required chemistry course with minimum C grade: CHEM 10050 or CHEM 10055 or CHEM 10060 or CHEM 10061 (or equivalent)
- Completion of four hours of job shadowing experience

## Graduation Requirements

Minimum Major GPA	Minimum Overall GPA
2.000	2.000

## Roadmap

This roadmap is a recommended semester-by-semester plan of study for this major. However, courses designated as critical (!) must be completed in the semester listed to ensure a timely graduation.

Semester One		Credits
BSCI 11010 or BSCI 21010	FOUNDATIONAL ANATOMY AND PHYSIOLOGY I (KBS) (KLAB) or ANATOMY AND PHYSIOLOGY I (KBS) (KLAB)	3-4
! RTT 10000	INTRODUCTION TO RESPIRATORY THERAPY	4
! RTT 11003	APPLICATION AND MECHANISMS OF CARDIOPULMONARY ANATOMY AND PHYSIOLOGY	3
UC 10097	DESTINATION KENT STATE: FIRST YEAR EXPERIENCE	1
Chemistry Elective		3-4
Credit Hours		14
Semester Two		
BSCI 11020 or BSCI 21020	FOUNDATIONAL ANATOMY AND PHYSIOLOGY II (KBS) (KLAB) or ANATOMY AND PHYSIOLOGY II	3-4
BSCI 20021	BASIC MICROBIOLOGY	3
Kent Core Requirement		3
Credit Hours		9
Semester Three		
AHS 12000 or RTT 11001	BASIC PRINCIPLES OF PHARMACOLOGY or RESPIRATORY CARE PHARMACOLOGY	2
! RTT 11002	CARDIOPULMONARY DISEASES	3
! RTT 11004	THERAPEUTICS	6



!	RTT 11008	BLOOD GAS ANALYSIS	2
		Credit Hours	13
<b>Semester Four</b>			
!	RTT 21001	MECHANICAL VENTILATION	5
!	RTT 21003	PERINATAL AND PEDIATRIC RESPIRATORY THERAPY	2
!	RTT 21004	ADVANCED DIAGNOSTICS	3
		Kent Core Requirement	3
		Credit Hours	13
<b>Semester Five</b>			
	PSYC 11762	GENERAL PSYCHOLOGY (DIVD) (KSS)	3
!	RTT 21000	CRITICAL CARE	4
		Credit Hours	7
<b>Semester Six</b>			
	COMM 20001	INTERPERSONAL COMMUNICATION	3
	or	or INTRODUCTION TO HEALTH COMMUNICATION	
	COMM 26501	COMMUNICATION	
!	RTT 21006	PULMONARY REHABILITATION AND CONTINUING CARE	1
!	RTT 21013	RESPIRATORY THERAPY CAPSTONE	2
		Kent Core Requirement	3
		Credit Hours	9
		Minimum Total Credit Hours:	65

## Software Development - Minor

### College of Applied and Technical Studies

cats@kent.edu

www.kent.edu/cats

## Description

The Software Development minor is designed to complement a wide range of majors. The curriculum focuses on visual basic, scripting and programming mobile devices. Electives provide flexibility to tailor the minor to each student's interests and career goals. For example, a student might choose a different programming language or a more in-depth course in scripting, visual basic or data design.

### Fully Offered At:

- Online
- Ashtabula Campus
- East Liverpool Campus
- Geauga Campus
- Kent Campus
- Salem Campus
- Stark Campus
- Trumbull Campus
- Tuscarawas Campus

## Admission Requirements

Admission to a minor is open to students declared in a bachelor's degree, the A.A.B. or A.A.S. degree or the A.T.S. degree (not Individualized Program major). Students declared only in the A.A. or A.S. degree or the A.T.S. degree in Individualized Program may not declare a minor. Students may not pursue a minor and a major in the same discipline.

## Minor Requirements

Code	Title	Credit Hours
<b>Minor Requirements</b>		
IT 21005	VISUAL BASIC DATABASE PROGRAMMING	4
IT 21036	WEB SCRIPTING I	3
IT 36309	PROGRAMMING MOBILE APPLICATIONS	3
IT 46308	ADVANCED VISUAL BASIC PROGRAMMING	3
Information Technology Electives, choose from the following: <sup>1</sup>		
IT 20001	C++ PROGRAMMING	
IT 20011	JAVA PROGRAMMING	
IT 36302	ADVANCED C# PROGRAMMING	
IT 36308	ERGONOMICS IN COMPUTER SYSTEMS	
IT 36336	WEB SCRIPTING II	
IT 46309	ASP.NET WEB PROGRAMMING	
IT 46315	SQL WITH ORACLE	
IT 46321	WEB DATABASE INTEGRATION	
IT 46340	DATA DESIGN AND IMPLEMENTATION	
Minimum Total Credit Hours:		19

<sup>1</sup> Minimum 3 credit hours of electives must be upper-division.

## Graduation Requirements

Minimum Minor GPA	Minimum Overall GPA
2.000	2.000

- Minimum 6 credit hours in the minor must be upper-division coursework (30000 and 40000 level).
- Minimum 6 credit hours in the minor must be outside of the course requirements for any major or other minor the student is pursuing.
- Minimum 50 percent of the total credit hours for the minor must be taken at Kent State (in residence).

## Technical and Applied Studies - B.T.A.S.

### College of Applied and Technical Studies

cats@kent.edu

www.kent.edu/cats

## Description

The Bachelor of Technical and Applied Studies degree in Technical and Applied Studies is designed both for students beginning their academic study and for students with an associate degree or college-level coursework. The program accommodates varied educational backgrounds, develops competencies needed for success in a variety of work settings and offers major courses in schedules attractive to traditional students and to time- and place-bound adults. Students construct a meaningful plan for using the curriculum to explore and prepare for their preferred futures by completing a cornerstone course. A capstone course features a synthesizing of learning focused on foundational competencies and developing an electronic portfolio. This enables students to collect artifacts of their learning, which can be used to advance their careers.

The Technical and Applied Studies major includes the following optional concentrations:

- The **Applied Business** concentration is an option for associate degree graduates or students with a business background who choose not to pursue the B.B.A degree, or for students who would like to gain knowledge about financial management, customer service, strategic management, labor students and leadership. The concentration includes a practicum.
- The **Fraud Examination** concentration prepares students with a business background to work in the field of detection and prevention of financial fraud and abuse in a company, including understanding ethical dilemmas and applying ethical principles to prevent occupational/financial fraud. This concentration also allows students to review and analyze past and current issues of fraud cases.
- The **Nonprofit-Human Services** concentration provides students with the knowledge and competencies in areas such as grant writing and fundraising, mission and vision, advocacy and lobbying, risk management, board committee development, program planning, leadership and ethics, human resource development, youth and adult development, marketing, financial management and nonprofit management.

Students may also declare the Technical and Applied Studies major with no concentration. The stand-alone major offers a flexible and robust core of skills/knowledge-based courses, which bridge multiple disciplines in multiple colleges. The skill sets that are provided by this program are civic engagement, computer literacy, critical thinking, diversity/internationalization, ethics, information literacy, leadership, self-management, oral and written communication and mathematics.

### Fully Offered At:

- Online (Applied Business and Nonprofit-Human Services concentrations only)
- Ashtabula Campus
- East Liverpool Campus
- Geauga Campus
- Salem Campus
- Stark Campus
- Trumbull Campus
- Tuscarawas Campus

## Admission Requirements

The university affirmatively strives to provide educational opportunities and access to students with varied backgrounds, those with special talents and adult students who graduated from high school three or more years ago.

**Freshman Students on the Kent Campus:** The freshman admission policy on the Kent Campus is selective. Admission decisions are based upon the following: cumulative grade point average, ACT and/or SAT scores, strength of high school college preparatory curriculum and grade trends. The Admissions Office at the Kent Campus may defer the admission of students who do not meet admissions criteria but who demonstrate areas of promise for successful college study. Deferred applicants may begin their college coursework at one of seven regional campuses of Kent State University. For more information on admissions, including additional requirements for some academic programs, visit the admissions website for new freshmen.

**Freshman Students on the Regional Campuses:** Kent State campuses at Ashtabula, East Liverpool, Geauga, Salem, Stark, Trumbull and Tuscarawas, as well as the Regional Academic Center in Twinsburg, have open enrollment admission for students who hold a high school diploma, GED or equivalent.

**English Language Proficiency Requirements for International Students:** All international students must provide proof of English language proficiency (unless they meet specific exceptions) by earning a minimum 525 TOEFL score (71 on the Internet-based version), minimum 75 MELAB score, minimum 6.0 IELTS score or minimum 48 PTE score, or by completing the ESL level 112 Intensive Program. For more information on international admission, visit the Office of Global Education's admission website.

**Transfer, Transitioning and Former Students:** For more information about admission criteria for transfer, transitioning and former students, please visit the admissions website.

## University Requirements

All students in a bachelor's degree program at Kent State University must complete the following university requirements for graduation.

**NOTE:** University requirements may be fulfilled in this program by specific course requirements. Please see Program Requirements for details.

Destination Kent State: First Year Experience	1
Course is not required for students with 25 transfer credits, excluding College Credit Plus, or age 21+ at time of admission.	
Diversity Domestic/Global (DIVD/DIVG)	2 courses
Students must successfully complete one domestic and one global course, of which one must be from the Kent Core.	
Experiential Learning Requirement (ELR)	varies
Students must successfully complete one course or approved experience.	
Kent Core (see table below)	36-37
Writing-Intensive Course (WIC)	1 course
Students must earn a minimum C grade in the course.	
Upper-Division Requirement	39 (or 42)
Students must successfully complete 39 upper-division (numbered 30000 to 49999) credit hours to graduate. Students in a B.A. and/or B.S. degree in the College of Arts and Sciences must complete 42 upper-division credit hours.	
Total Credit Hour Requirement	120
Some bachelor's degrees require students to complete more than 120 credit hours.	

## Kent Core Requirements

Kent Core Composition (KCMP)	6
Kent Core Mathematics and Critical Reasoning (KMCR)	3
Kent Core Humanities and Fine Arts (KHUM/KFA) (min one course each)	9
Kent Core Social Sciences (KSS) (must be from two disciplines)	6
Kent Core Basic Sciences (KBS/KLAB) (must include one laboratory)	6-7
Kent Core Additional (KADL)	6
<b>Total Credit Hours:</b>	<b>36-37</b>

## Program Requirements

### Major Requirements

Code	Title	Credit Hours
<b>Major Program Requirements (courses count in major GPA)</b>		
IT 11000	INTRODUCTION TO OFFICE PRODUCTIVITY APPS	3
or IT 12000	INTERMEDIATE OFFICE PRODUCTIVITY APPS	
or CIS 24053	INTRODUCTION TO COMPUTER APPLICATIONS	
TAS 37900	TECHNICAL AND APPLIED STUDIES CORNERSTONE (min C grade)	3
TAS 47999	TECHNICAL AND APPLIED STUDIES CAPSTONE (ELR)	3
Major Electives, choose from the following (min C grade):		9
BMRT 11009	INTRODUCTION TO MANAGEMENT TECHNOLOGY <sup>1</sup>	
BMRT 36401	APPLICATIONS OF TECHNOLOGY MANAGEMENT SOFTWARE <sup>1</sup>	
COMM 35864	ORGANIZATIONAL COMMUNICATION <sup>2</sup>	
ENG 20002	INTRODUCTION TO TECHNICAL WRITING	
ENG 30063	PROFESSIONAL WRITING	
ENGR 31000	CULTURAL DYNAMICS TECHNOLOGY (DIVD) (WIC)	
LIS 30010	INFORMATION FLUENCY IN THE WORKPLACE AND BEYOND	
OTEC 26638	BUSINESS COMMUNICATIONS	
SOC 32570	INEQUALITY IN SOCIETIES (DIVD)	
<b>Additional Program Requirements (courses do not count in major GPA)</b>		
UC 10097	DESTINATION KENT STATE: FIRST YEAR EXPERIENCE	1
Kent Core Composition		6
Kent Core Mathematics and Critical Reasoning		3
Kent Core Humanities and Fine Arts (minimum one course from each)		9
Kent Core Social Sciences (courses from two curricular areas)		6
Kent Core Basic Sciences (must include one laboratory)		6-7
Kent Core Additional		6
General Electives (total credit hours depends on earning 120 credit hours, including 39 upper-division credit hours)		32-35
<b>Additional Requirements or Concentrations</b>		
Choose from the following:		30-33
Additional Requirements for Students Not Declaring a Concentration		
Applied Business Concentration		
Fraud Examination Concentration		
Nonprofit-Human Services Concentration		
Minimum Total Credit Hours:		120

<sup>1</sup> BMRT 11009 and BMRT 36401 are recommended for students in the Applied Business concentration.

<sup>2</sup> A minimum C grade must be earned to fulfill the writing-intensive requirement.

### Additional Requirements for Students Not Declaring a Concentration

Code	Title	Credit Hours
<b>Major Requirements (courses count in major GPA)</b>		
Additional Major Electives, choose from the following:		30
ANTH 48245	PSYCHOLOGICAL ANTHROPOLOGY (DIVG)	
BMRT 11009	INTRODUCTION TO MANAGEMENT TECHNOLOGY	
or MGMT 24163	PRINCIPLES OF MANAGEMENT	
BMRT 21000	BUSINESS LAW AND ETHICS I	
BMRT 21020	INTRODUCTION TO ENTREPRENEURSHIP	
BMRT 31006	HUMAN RESOURCE MANAGEMENT	
or HRM 34180	HUMAN RESOURCE MANAGEMENT	
BMRT 36401	APPLICATIONS OF TECHNOLOGY MANAGEMENT SOFTWARE	
BMRT 36415	CUSTOMER SERVICE	
BMRT 46409	STRATEGIC MANAGEMENT OF TECHNOLOGY AND INNOVATION	
BMRT 46418	LABOR STUDIES IN TECHNOLOGY	
CES 37800	SMALL GROUP PROCESS	
COMM 35852	INTERCULTURAL COMMUNICATION (DIVG)	
COMM 35864	ORGANIZATIONAL COMMUNICATION <sup>1</sup>	
ECON 42075	INTERNATIONAL ECONOMIC RELATIONS	
EMAT 10010	INTRODUCTION TO EMERGING MEDIA AND TECHNOLOGY	
EMAT 10310	MY STORY ON THE WEB	
EMAT 13210	DESIGN PROCESSES AND PRINCIPLES	
EMAT 15310	CREATIVE CODING	
EMAT 30410	INFORMATION ETHICS AND SOCIAL RESPONSIBILITY	
EMAT 33310	HUMAN-COMPUTER INTERACTION	
EMAT 34410	DIGITAL INFORMATION MANAGEMENT AND PROCESSING	
ENG 20002	INTRODUCTION TO TECHNICAL WRITING	
ENG 30063	PROFESSIONAL WRITING	
ENGR 31000	CULTURAL DYNAMICS TECHNOLOGY (DIVD) (WIC)	
ENTR 27056	INTRODUCTION TO ENTREPRENEURSHIP	
HDFS/SOC 24011	INTERPERSONAL RELATIONSHIPS AND FAMILIES (DIVD)	
HDFS 24012	CHILD DEVELOPMENT	
HDFS 44032	NONPROFIT FUNDRAISING AND GRANTWRITING	
HDFS 44033	COMMUNITY OUTREACH IN NONPROFIT MANAGEMENT (ELR)	
HDFS 44034	PRINCIPLES AND PRACTICES OF NONPROFIT MANAGEMENT	
HED 46052	STRESS: RECOGNITION AND MANAGEMENT	
INS 29000	INTRODUCTION TO INSURANCE AND RISK	
IT 21007	CYBER ETHICS IN INFORMATION TECHNOLOGY	
IT 36308	ERGONOMICS IN COMPUTER SYSTEMS	
IT 36314	SEMINAR IN EMERGING COMPUTER AND INFORMATION TECHNOLOGIES	
IT 36318	SURVEY OF INFORMATION SECURITY, INTERNET FRAUD AND COMPUTER FORENSICS (WIC) <sup>1</sup>	
IT 42000	SOCIAL MEDIA SECURITY	

JMC 21001	PRINCIPLES OF ADVERTISING
JMC 28001	PRINCIPLES OF PUBLIC RELATIONS
LIS 30010	INFORMATION FLUENCY IN THE WORKPLACE AND BEYOND
MATH 10041	INTRODUCTORY STATISTICS (KMCR)
MATH 11009	MODELING ALGEBRA (KMCR)
MATH 11010	ALGEBRA FOR CALCULUS (KMCR)
MATH 30011	BASIC PROBABILITY AND STATISTICS
MGMT 34054	USING INFORMATION SYSTEMS FOR SOLVING BUSINESS PROBLEMS
MGMT 34060	OPERATIONS MANAGEMENT
MGMT 34165	DYNAMICS OF LEADERSHIP
MGMT 34185	INDIVIDUAL AND GROUP BEHAVIOR IN ORGANIZATIONS
MGMT 34280	ORGANIZATIONAL CHANGE MANAGEMENT
MKTG 35035	CONSUMER BEHAVIOR
OTEC 26638	BUSINESS COMMUNICATIONS
PACS 32020	STRATEGIC PLANNING
PH 30006	INTRODUCTION TO ENVIRONMENTAL HEALTH AND SAFETY
POL 30301	INTRODUCTION TO PUBLIC ADMINISTRATION
PSYC 30111	FORENSIC PSYCHOLOGY
PSYC 30656	PSYCHOLOGY OF AGING
PSYC 31532	SOCIAL PSYCHOLOGY
PSYC 31773	INDUSTRIAL PSYCHOLOGY
PSYC 41581	HEALTH PSYCHOLOGY
SOC 32400	INDIVIDUAL AND SOCIETY
SOC 32510	SOCIOLOGY OF WORK
SOC 32570	INEQUALITY IN SOCIETIES (DIVD)
SOC 42421	CHILDHOOD IN SOCIETY
SOC 42478	ADOLESCENCE IN SOCIETY
SOC 42558	WEALTH, POVERTY AND POWER
SOC 42563	SOCIOLOGY OF HEALTH AND HEALTH CARE
SOC 42575	FAMILIES IN A GLOBAL PERSPECTIVE (DIVG)
SOC 42577	SOCIOLOGY OF FAMILY VIOLENCE
Minimum Total Credit Hours: 30	

<sup>1</sup> A minimum C grade must be earned to fulfill the writing-intensive requirement.

### Applied Business Concentration Requirements

Code	Title	Credit Hours
<b>Concentration Requirements (courses count in major GPA; min C grade required in all courses)</b>		
BMRT 21011	FUNDAMENTALS OF FINANCIAL MANAGEMENT	3
BMRT 31005	PURCHASING AND SUPPLY MANAGEMENT	3
BMRT 31006	HUMAN RESOURCE MANAGEMENT	3
BMRT 31009	SEMINAR IN MANAGEMENT AND ENTREPRENEURSHIP	3
BMRT 36415	CUSTOMER SERVICE	3
BMRT 46409	STRATEGIC MANAGEMENT OF TECHNOLOGY AND INNOVATION	3
BMRT 46418	LABOR STUDIES IN TECHNOLOGY	3
Applied Business Electives, choose from the following:		3
ACTT 31063	INTRODUCTION TO COST ACCOUNTING	

BMRT 21008	CASE STUDIES IN MANAGEMENT AND ENTREPRENEURSHIP	
BMRT 21020	INTRODUCTION TO ENTREPRENEURSHIP	
BMRT 36410	SECURITY FOR BUSINESS STUDENTS	
BMRT 40092	PRACTICUM IN APPLIED BUSINESS AND TECHNOLOGY (ELR)	
BMRT 40096	INDIVIDUAL INVESTIGATION IN BUSINESS AND TECHNOLOGY	
BMRT 46295	SPECIAL TOPICS IN APPLIED BUSINESS	
ECON 32082	INTRODUCTION TO MANAGERIAL ECONOMICS	
ENGT 22003	SUPERVISION AND LABOR RELATIONS	
ENGT 22006	ECONOMIC DECISION ANALYSIS	
INS 29000	INTRODUCTION TO INSURANCE AND RISK	
IT 36318	SURVEY OF INFORMATION SECURITY, INTERNET FRAUD AND COMPUTER FORENSICS (WIC)	
Applied Business Upper-Division Electives, choose from the following:		6
ACTT 31063	INTRODUCTION TO COST ACCOUNTING	
BMRT 36410	SECURITY FOR BUSINESS STUDENTS	
BMRT 40092	PRACTICUM IN APPLIED BUSINESS AND TECHNOLOGY (ELR)	
BMRT 40096	INDIVIDUAL INVESTIGATION IN BUSINESS AND TECHNOLOGY	
BMRT 46295	SPECIAL TOPICS IN APPLIED BUSINESS	
ECON 32082	INTRODUCTION TO MANAGERIAL ECONOMICS	
IT 36318	SURVEY OF INFORMATION SECURITY, INTERNET FRAUD AND COMPUTER FORENSICS (WIC)	

Minimum Total Credit Hours: 30

### Fraud Examination Concentration Requirements

Code	Title	Credit Hours
<b>Concentration Requirements (courses count in major GPA; min C grade required in all courses)</b>		
ACTT 36110	PRINCIPLES OF FRAUD EXAMINATION	3
ACTT 36120	ETHICAL ISSUES RELATING TO FRAUD EXAMINATION	3
ACTT 46170	CASE STUDIES IN FRAUD EXAMINATION	3
ACTT 46191	SEMINAR IN FRAUD EXAMINATION	3
CRIM 12000	INTRODUCTION TO JUSTICE STUDIES	3
CRIM 22100	BASIC INTERVIEWING	3
CRIM 22301	THE INVESTIGATIVE PROCESS	3
CRIM 34200	CRIMINAL PROCEDURES AND EVIDENCE	3
HRM 34180	HUMAN RESOURCE MANAGEMENT	3
IT 36318	SURVEY OF INFORMATION SECURITY, INTERNET FRAUD AND COMPUTER FORENSICS (WIC)	3
MGMT 34165	DYNAMICS OF LEADERSHIP	3
Minimum Total Credit Hours:		33

### Nonprofit-Human Services Concentration Requirements

Code	Title	Credit Hours
<b>Concentration Requirements (courses count in major GPA; min C grade required in all courses)</b>		
SOC 32220 & SOC 32221 or ACTT 11000	DATA ANALYSIS and DATA ANALYSIS LABORATORY ACCOUNTING I: FINANCIAL	4

BMRT 11000	INTRODUCTION TO BUSINESS	3
HDFS 44032	NONPROFIT FUNDRAISING AND GRANTWRITING	3
HDFS 44033	COMMUNITY OUTREACH IN NONPROFIT MANAGEMENT (ELR)	3
HDFS 44034	PRINCIPLES AND PRACTICES OF NONPROFIT MANAGEMENT	3
IT 36318	SURVEY OF INFORMATION SECURITY, INTERNET FRAUD AND COMPUTER FORENSICS (WIC)	3
Nonprofit-Human Services Electives, choose from the following:		12
ANTH 18210	GLOBAL CULTURAL DIVERSITY: ANTHROPOLOGICAL PERSPECTIVES (DIVG) (KSS)	
ANTH 48245	PSYCHOLOGICAL ANTHROPOLOGY (DIVG)	
BMRT 11009	INTRODUCTION TO MANAGEMENT TECHNOLOGY	
	or MGMT 24163 PRINCIPLES OF MANAGEMENT	
BMRT 31006	HUMAN RESOURCE MANAGEMENT	
BMRT 36401	APPLICATIONS OF TECHNOLOGY MANAGEMENT SOFTWARE	
BMRT 46409	STRATEGIC MANAGEMENT OF TECHNOLOGY AND INNOVATION	
BUS 10123	EXPLORING BUSINESS	
ENG 20002	INTRODUCTION TO TECHNICAL WRITING	
ENG 30063	PROFESSIONAL WRITING	
GERO 14029	INTRODUCTION TO GERONTOLOGY (DIVD) (KSS)	
GERO 40656	PSYCHOLOGY OF AGING	
HDFS/SOC 24011	INTERPERSONAL RELATIONSHIPS AND FAMILIES (DIVD)	
HDFS 24013	EARLY ADOLESCENCE	
HDFS 34031	CULTURAL DIVERSITY:IMPLICATIONS FOR THE HELPING PROFESSIONS	
IHS 10000	CAREERS IN HEALTH SCIENCES AND HUMAN SERVICES	
MKTG 25010	PRINCIPLES OF MARKETING	
NURS 20950	HUMAN GROWTH AND DEVELOPMENT FOR HEALTH PROFESSIONALS	
PACS 11001	INTRODUCTION TO CONFLICT MANAGEMENT (DIVD) (KSS)	
PH 30005	SOCIAL AND BEHAVIORAL SCIENCE THEORIES IN PUBLIC HEALTH	
PH 44000	HEALTH DISPARITIES (DIVD) (WIC)	
POL 30301	INTRODUCTION TO PUBLIC ADMINISTRATION	
PSYC 20651	CHILD PSYCHOLOGY (DIVD) (KSS)	
PSYC 30651	ADOLESCENT PSYCHOLOGY	
PSYC 30656	PSYCHOLOGY OF AGING	
RPTM 36010	RECREATION, LEISURE AND AGING	
SOC 22570	UNDERSTANDING DIFFERENCES AND INEQUALITY	
SOC 32569	MINORITIES IN THE UNITED STATES (DIVD)	
SOC 32570	INEQUALITY IN SOCIETIES (DIVD)	
SOC 42421	CHILDHOOD IN SOCIETY	
SOC 42478	ADOLESCENCE IN SOCIETY	
SOC 42558	WEALTH, POVERTY AND POWER	
SOC 42563	SOCIOLOGY OF HEALTH AND HEALTH CARE	
SOC 42575	FAMILIES IN A GLOBAL PERSPECTIVE (DIVG)	

SOC 42879	AGING IN SOCIETY (DIVD)	
Minimum Total Credit Hours:		31

## Graduation Requirements

Minimum Major GPA	Minimum Overall GPA
2.000	2.000

- Students may declare more than one concentration in the Technical and Applied Studies major, provided that they complete minimum 12 credit hours of coursework unique to each concentration. Students who elect to declare more than one concentration must complete all concentration requirements, and they must meet with an advisor for a plan of study that meets these requirements before additional concentrations can be declared. Any changes made to the program of study must also be approved by an advisor, or the student may not be allowed to graduate with multiple concentrations.



## Roadmaps

- Technical and Applied Studies Major (no concentration)
- Applied Business Concentration
- Fraud Examination Concentration
- Nonprofit-Human Services Concentration

Additional Major Electives	6
General Electives	5
<b>Credit Hours</b>	<b>14</b>
<b>Minimum Total Credit Hours:</b>	<b>120</b>

### TECHNICAL AND APPLIED STUDIES MAJOR (NO CONCENTRATION)

This roadmap is a recommended semester-by-semester plan of study for this major. However, courses designated as critical (!) must be completed in the semester listed to ensure a timely graduation.

Semester One		Credits
UC 10097	DESTINATION KENT STATE: FIRST YEAR EXPERIENCE	1
Kent Core Requirement		3
Kent Core Requirement		3
Kent Core Requirement		3
Kent Core Requirement		3
General Elective		3
Credit Hours		16
Semester Two		
IT 11000 or IT 12000 or CIS 24053	INTRODUCTION TO OFFICE PRODUCTIVITY APPS or INTERMEDIATE OFFICE PRODUCTIVITY APPS or INTRODUCTION TO COMPUTER APPLICATIONS	3
Kent Core Requirement		3
Kent Core Requirement		3
General Electives		6
Credit Hours		15
Semester Three		
Kent Core Requirement		3
Kent Core Requirement		3
General Electives		9
Credit Hours		15
Semester Four		
Kent Core Requirement		3
Kent Core Requirement		3
General Electives		9
Credit Hours		15
Semester Five		
! TAS 37900	TECHNICAL AND APPLIED STUDIES CORNERSTONE	3
Major Electives		9
Kent Core Requirement		3
Credit Hours		15
Semester Six		
Additional Major Electives		9
Kent Core Requirement		3
General Elective		3
Credit Hours		15
Semester Seven		
Additional Major Electives		15
Credit Hours		15
Semester Eight		
! TAS 47900		3

## Applied Business Concentration

This roadmap is a recommended semester-by-semester plan of study for this major. However, courses designated as critical (!) must be completed in the semester listed to ensure a timely graduation.

Kent Core Requirement	3
Credit Hours	15
Minimum Total Credit Hours:	120

Semester One		Credits
IT 11000	INTRODUCTION TO OFFICE PRODUCTIVITY APPS	3
or IT 12000	or INTERMEDIATE OFFICE PRODUCTIVITY APPS	
or CIS 24053	or INTRODUCTION TO COMPUTER APPLICATIONS	
UC 10097	DESTINATION KENT STATE: FIRST YEAR EXPERIENCE	1
Kent Core Requirement		3
Kent Core Requirement		3
Kent Core Requirement		3
General Elective		2
Credit Hours		15
Semester Two		
Kent Core Requirement		3
Kent Core Requirement		3
General Electives		9
Credit Hours		15
Semester Three		
Kent Core Requirement		3
Kent Core Requirement		3
General Electives		9
Credit Hours		15
Semester Four		
! Concentration Requirement		3
Kent Core Requirement		3
Kent Core Requirement		3
General Electives		6
Credit Hours		15
Semester Five		
! TAS 37900	TECHNICAL AND APPLIED STUDIES CORNERSTONE	3
! Concentration Requirements		9
General Elective		3
Credit Hours		15
Semester Six		
! Major Elective		3
! Concentration Requirement		3
Kent Core Requirement		3
General Electives		6
Credit Hours		15
Semester Seven		
! Major Elective		3
! Concentration Requirements		6
Applied Business Elective		3
Kent Core Requirement		3
Credit Hours		15
Semester Eight		
! TAS 47900		3
! Major Elective		3
Applied Business Electives		6

## Fraud Examination Concentration

This roadmap is a recommended semester-by-semester plan of study for this major. However, courses designated as critical (!) must be completed in the semester listed to ensure a timely graduation.

Semester One		Credits
IT 11000 or IT 12000 or CIS 24053	INTRODUCTION TO OFFICE PRODUCTIVITY APPS or INTERMEDIATE OFFICE PRODUCTIVITY APPS or INTRODUCTION TO COMPUTER APPLICATIONS	3
UC 10097	DESTINATION KENT STATE: FIRST YEAR EXPERIENCE	1
	Kent Core Requirement	3
	Kent Core Requirement	3
	Kent Core Requirement	3
	General Elective	3
	Credit Hours	16
Semester Two		
	Kent Core Requirement	3
	Kent Core Requirement	3
	General Electives	9
	Credit Hours	15
Semester Three		
	Kent Core Requirement	3
	Kent Core Requirement	3
	General Electives	9
	Credit Hours	15
Semester Four		
	Kent Core Requirement	3
	Kent Core Requirement	3
	General Electives	9
	Credit Hours	15
Semester Five		
! ACTT 36110	PRINCIPLES OF FRAUD EXAMINATION	3
! CRIM 12000	INTRODUCTION TO JUSTICE STUDIES	3
IT 36318	SURVEY OF INFORMATION SECURITY, INTERNET FRAUD AND COMPUTER FORENSICS (WIC)	3
! TAS 37900	TECHNICAL AND APPLIED STUDIES CORNERSTONE	3
! Major Elective		3
	Credit Hours	15
Semester Six		
! ACTT 36120	ETHICAL ISSUES RELATING TO FRAUD EXAMINATION	3
! CRIM 22100	BASIC INTERVIEWING	3
! Major Elective		3
	Kent Core Requirement	3
	General Elective	2
	Credit Hours	14
Semester Seven		
! ACTT 46170	CASE STUDIES IN FRAUD EXAMINATION	3
! CRIM 22301	THE INVESTIGATIVE PROCESS	3
MGMT 34165	DYNAMICS OF LEADERSHIP	3
! Major Elective		3
	Kent Core Requirement	3
	Credit Hours	15

## Semester Eight

! ACTT 46191	SEMINAR IN FRAUD EXAMINATION	3
! CRIM 34200	CRIMINAL PROCEDURES AND EVIDENCE	3
HRM 34180	HUMAN RESOURCE MANAGEMENT	3
! TAS 47900		3
	Kent Core Requirement	3
	Credit Hours	15
	Minimum Total Credit Hours:	120

## Nonprofit-Human Services Concentration

This roadmap is a recommended semester-by-semester plan of study for this major. However, courses designated as critical (!) must be completed in the semester listed to ensure a timely graduation.

Semester One		Credits
IT 11000	INTRODUCTION TO OFFICE PRODUCTIVITY APPS	3
or IT 12000	or INTERMEDIATE OFFICE PRODUCTIVITY APPS	
or CIS 24053	or INTRODUCTION TO COMPUTER APPLICATIONS	
UC 10097	DESTINATION KENT STATE: FIRST YEAR EXPERIENCE	1
Kent Core Requirement		3
Kent Core Requirement		3
Kent Core Requirement		3
General Elective		2
Credit Hours		15
Semester Two		
Kent Core Requirement		3
Kent Core Requirement		3
General Electives		9
Credit Hours		15
Semester Three		
Kent Core Requirement		3
Kent Core Requirement		3
General Electives		9
Credit Hours		15
Semester Four		
Kent Core Requirement		3
Kent Core Requirement		3
General Electives		9
Credit Hours		15
Semester Five		
! TAS 37900	TECHNICAL AND APPLIED STUDIES CORNERSTONE	3
! Concentration Requirements		13
Credit Hours		16
Semester Six		
! Major Elective		3
! Concentration Requirements		6
Kent Core Requirement		3
General Elective		3
Credit Hours		15
Semester Seven		
! Major Elective		3
! Nonprofit-Human Services Electives		6
Kent Core Requirement		3
General Elective		2
Credit Hours		14
Semester Eight		
! TAS 47900		3
! Major Elective		3
! Nonprofit-Human Services Electives		6
Kent Core Requirement		3
Credit Hours		15
Minimum Total Credit Hours:		120

## Technical Modeling Design - A.A.S.

### College of Applied and Technical Studies

cats@kent.edu

www.kent.edu/cats

## Description

The Associate of Applied Science degree in Technical Modeling Design prepares students for entry-level positions as technical illustrators, drafter/designer technicians in business and computer animation and game design industries, as well as in the field of multimedia development. Computer-aided design (CAD) is used throughout the program for computer modeling and multimedia development.

The degree program articulates with the CAD for Manufacturing undergraduate certificate, the Bachelor of Science degree in Animation Game Design and other select bachelor's degrees at Kent State.

## Fully Offered At:

- Tuscarawas Campus

## Admission Requirements

The university affirmatively strives to provide educational opportunities and access to students with varied backgrounds, those with special talents and adult students who graduated from high school three or more years ago.

Kent State campuses at Ashtabula, East Liverpool, Geauga, Salem, Stark, Trumbull and Tuscarawas, and the Twinsburg Academic Center, have open enrollment admission for students who hold a high school diploma, GED or equivalent.

For more information on admissions, contact the Regional Campuses admissions offices.

## Program Learning Outcomes

Graduates of this program will be able to:

1. Demonstrate entry-level skills in technical writing and programming
2. Demonstrate comprehensive skills in two-dimensional, three-dimensional and solid-modeling as applied to complex computer-aided design technology
3. Understand professional and ethical responsibilities with real-world cases
4. Collaborate with people of diverse backgrounds and abilities
5. Demonstrate an ability for effective oral, graphic and written communication
6. Recognize the need for and an ability to engage in lifelong learning

## University Requirements

All students in an applied or technical associate degree program at Kent State University must complete the following university requirements for graduation.

**NOTE:** University requirements may be fulfilled in this program by specific course requirements, please see Program Requirements for details.

Code	Title	Credit Hours
Destination Kent State: First Year Experience		1
Course is not required for students with 25 transfer credits, excluding College Credit Plus, or age 21+ at time of admission.		
Kent Core (see table below)		15
<b>Total Credit Hour Requirement</b>		<b>60</b>
Some associate degrees require students to complete more than 60 credit hours.		

## Kent Core Requirements

Kent Core Composition (KCOMP)	3
Kent Core Mathematics and Critical Reasoning (KMCR)	3
Kent Core Humanities and Fine Arts (KHUM/KFA)	3
Kent Core Social Sciences (KSS)	3
Kent Core Basic Sciences (KBS/KLAB)	3
<b>Total Credit Hours:</b>	<b>15</b>

## Program Requirements

### Major Requirements

Code	Title	Credit Hours
<b>Major Requirements (courses count in major GPA)</b>		
AGD 11003	SOLID MODELING	3
AGD 12000	TWO DIMENSION GRAPHICS	3
AGD 12001	MODELING AND TEXTURING I	3
AGD 22000	TWO-DIMENSION COMMUNICATION	3
AGD 22001	MODELING FOR ARCHITECTURE	3
Major Electives, choose from the following:		9
AGD 21000	FUNDAMENTALS OF MIXED REALITY	
AGD 22010	DIGITAL SCULPTING	
AGD 22095	SPECIAL TOPICS IN ANIMATION AND GAME DESIGN	
AGD 23020	GAMING AND CULTURE	
MERT 12000	ENGINEERING DRAWING	
MERT 12001	COMPUTER-AIDED DESIGN	
<b>Additional Requirements (courses do not count in major GPA)</b>		
ARTS 14000	DRAWING I	3
BMRT 11000	INTRODUCTION TO BUSINESS	3
or BUS 10123	EXPLORING BUSINESS	
COMM 15000	INTRODUCTION TO HUMAN COMMUNICATION (KADL)	3
EERT 32003	TECHNICAL COMPUTING	3
ENG 20002	INTRODUCTION TO TECHNICAL WRITING	3
MATH 11010	ALGEBRA FOR CALCULUS (KMCR)	3
UC 10097	DESTINATION KENT STATE: FIRST YEAR EXPERIENCE	1
Kent Core Composition		3
Kent Core Humanities and Fine Arts		3
Kent Core Social Sciences		3
Kent Core Basic Sciences		3
General Electives (total credit hours depends on earning minimum 60 credit hours)		5
<b>Minimum Total Credit Hours:</b>		<b>60</b>

## Graduation Requirements

Minimum Major GPA	Minimum Overall GPA
2.000	2.000

## Roadmap

This roadmap is a recommended semester-by-semester plan of study for this major. However, courses designated as critical (!) must be completed in the semester listed to ensure a timely graduation.

Semester One	Credits
AGD 12000 TWO DIMENSION GRAPHICS	3
ARTS 14000 DRAWING I	3
BMRT 11000 INTRODUCTION TO BUSINESS	3
or BUS 10123 or EXPLORING BUSINESS	
UC 10097 DESTINATION KENT STATE: FIRST YEAR EXPERIENCE	1
Major Elective	3
Kent Core Requirement	3
<b>Credit Hours</b>	<b>16</b>

Semester Two	Credits
AGD 11003 SOLID MODELING	3
ENG 20002 INTRODUCTION TO TECHNICAL WRITING	3
MATH 11010 ALGEBRA FOR CALCULUS (KMCR)	3
Major Elective	3
Kent Core Requirement	3
<b>Credit Hours</b>	<b>15</b>

Semester Three	Credits
AGD 12001 MODELING AND TEXTURING I	3
COMM 15000 INTRODUCTION TO HUMAN COMMUNICATION (KADL)	3
Major Elective	3
Kent Core Requirement	3
General Elective	3
<b>Credit Hours</b>	<b>15</b>

Semester Four	Credits
AGD 22000 TWO-DIMENSION COMMUNICATION	3
AGD 22001 MODELING FOR ARCHITECTURE	3
EERT 32003 TECHNICAL COMPUTING	3
Kent Core Requirement	3
General Elective	2
<b>Credit Hours</b>	<b>14</b>
<b>Minimum Total Credit Hours:</b>	<b>60</b>

## Veterinary Technology - A.A.S.

### College of Applied and Technical Studies

cats@kent.edu  
www.kent.edu/cats

## Description

The Associate of Applied Science degree in Veterinary Technology prepares graduates to serve as veterinary technicians performing support functions, including routine laboratory and clinical procedures. Other growing employment opportunities are expected in biomedical research,



diagnostic laboratories, wildlife facilities, humane societies and animal control facilities.

Upon completion, graduates are eligible to take the Veterinary Technician National Examination, which is a step in the process to pursue registration in the State of Ohio.

### Fully Offered At:

- Ashtabula Campus
- Trumbull Campus
- Tuscarawas Campus

## Accreditation

The A.A.S. degree in Veterinary Technology is accredited by the American Veterinary Medical Association.

## Admission Requirements

The university affirmatively strives to provide educational opportunities and access to students with varied backgrounds, those with special talents and adult students who graduated from high school three or more years ago.

Kent State campuses at Ashtabula, East Liverpool, Geauga, Salem, Stark, Trumbull and Tuscarawas, and the Twinsburg Academic Center, have open enrollment admission for students who hold a high school diploma, GED or equivalent.

For more information on admissions, contact the Regional Campuses admissions offices.

## Program Learning Outcomes

Graduates of this program will be able to:

1. Qualify to take the Veterinary Technician National Examination
2. Demonstrate successful completion of all essential skills as mandated by American Veterinary Medical Association's Committee on Veterinary Technician Education and Activities (Appendix I of the Accreditation Policies and Procedures)
3. Demonstrate competency in safely performing animal handling skills
4. Demonstrate competency in decision-making abilities for patient case management, from the initial presentation to the successful outcome of the patient's treatment and resolution of the patient's presenting problem(s)

## University Requirements

All students in an applied or technical associate degree program at Kent State University must complete the following university requirements for graduation.

**NOTE:** University requirements may be fulfilled in this program by specific course requirements, please see Program Requirements for details.

Code	Title	Credit Hours
	Destination Kent State: First Year Experience	1
	Course is not required for students with 25 transfer credits, excluding College Credit Plus, or age 21+ at time of admission.	
	Kent Core (see table below)	15
	Total Credit Hour Requirement	60

Some associate degrees require students to complete more than 60 credit hours.

## Kent Core Requirements

Kent Core Composition (KCOMP)	3
Kent Core Mathematics and Critical Reasoning (KMCR)	3
Kent Core Humanities and Fine Arts (KHUM/KFA)	3
Kent Core Social Sciences (KSS)	3
Kent Core Basic Sciences (KBS/KLAB)	3
<b>Total Credit Hours:</b>	<b>15</b>

## Program Requirements

### Major Requirements

Code	Title	Credit Hours
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**Major Requirements (courses count in major GPA; min C grade required in all courses)**

VTEC 10001	INTRODUCTION TO VETERINARY TECHNOLOGY	2
VTEC 10002	VETERINARY NURSING I	3
VTEC 10204	CLINICAL LABORATORY I	3
VTEC 10205	VETERINARY NURSING II	3
VTEC 10206	PHARMACOLOGY	2
VTEC 20008	CLINICAL LABORATORY II	3
VTEC 20009	VETERINARY NURSING III	3
VTEC 20010	IMAGING TECHNIQUES	3
VTEC 20212	SURGERY AND ANESTHESIA	3
VTEC 20213	NUTRITION AND DISEASE	2
VTEC 20215	VETERINARY OFFICE APPLICATIONS	1
VTEC 20216	LABORATORY AND EXOTIC ANIMAL MEDICINE	2
VTEC 20392	PRACTICUM IN VETERINARY HOSPITAL (ELR)	5

**Additional Requirements (courses do not count in major GPA; min C grade required in all courses)**

BSCI 10005	ANATOMY FOR VETERINARY TECHNICIANS	5
BSCI 10110	BIOLOGICAL DIVERSITY (KBS) (KLAB)	4
BSCI 20021	BASIC MICROBIOLOGY	3
BSCI 20022	BASIC MICROBIOLOGY LABORATORY	1
CHEM 10050	FUNDAMENTALS OF CHEMISTRY (KBS)	3
UC 10097	DESTINATION KENT STATE: FIRST YEAR EXPERIENCE	1

Kent Core Composition	3
Kent Core Mathematics and Critical Reasoning	3
Kent Core Humanities or Fine Arts	3
Kent Core Social Sciences	3
<b>Minimum Total Credit Hours:</b>	<b>64</b>

## Progression Requirements

All students in the Veterinary Technology program must complete all coursework in sequence before continuing to the next level.

To be able to register for Veterinary Technology (VTEC) courses, students must be accepted to technical study. Acceptance into technical study is selective and requires a separate application process. Students interested in the program must attend an information session prior to application. Criteria for acceptance is the following:

- Minimum 2.500 college or high school overall GPA

## Graduation Requirements

Minimum Major GPA	Minimum Overall GPA
2.000	2.000

## Roadmap

This roadmap is a recommended semester-by-semester plan of study for this major. However, courses designated as critical (!) must be completed in the semester listed to ensure a timely graduation.

Semester One		Credits
BSCI 10005	ANATOMY FOR VETERINARY TECHNICIANS	5
CHEM 10050	FUNDAMENTALS OF CHEMISTRY (KBS)	3
UC 10097	DESTINATION KENT STATE: FIRST YEAR EXPERIENCE	1
!	VTEC 10001 INTRODUCTION TO VETERINARY TECHNOLOGY	2
!	VTEC 10002 VETERINARY NURSING I	3
!	VTEC 10204 CLINICAL LABORATORY I	3
Credit Hours		17
Semester Two		
BSCI 10110	BIOLOGICAL DIVERSITY (KBS) (KLAB)	4
!	VTEC 10205 VETERINARY NURSING II	3
!	VTEC 10206 PHARMACOLOGY	2
VTEC 20008	CLINICAL LABORATORY II	3
VTEC 20215	VETERINARY OFFICE APPLICATIONS	1
Kent Core Requirement		3
Credit Hours		16
Semester Three		
BSCI 20021	BASIC MICROBIOLOGY	3
BSCI 20022	BASIC MICROBIOLOGY LABORATORY	1
!	VTEC 20010 IMAGING TECHNIQUES	3
!	VTEC 20212 SURGERY AND ANESTHESIA	3
!	VTEC 20213 NUTRITION AND DISEASE	2
Kent Core Requirement		3
Credit Hours		15
Semester Four		
!	VTEC 20009 VETERINARY NURSING III	3
VTEC 20216	LABORATORY AND EXOTIC ANIMAL MEDICINE	2
!	VTEC 20392 PRACTICUM IN VETERINARY HOSPITAL (ELR)	5
Kent Core Requirement		3
Kent Core Requirement		3
Credit Hours		16
Minimum Total Credit Hours:		64

## Viticulture - A.A.S.

### College of Applied and Technical Studies

cats@kent.edu  
www.kent.edu/cats

## Description

The Associate of Applied Science degree in Viticulture provides students with the foundational scientific and mathematical knowledge, practical experiences and technological skills of the cultivation of grapes for

making wine. This program emphasizes hands-on experiences and internships at local vineyards and wineries in Ashtabula County.

Graduates are qualified for positions in the commercial winemaking industry as a viticulturist, vineyard manager and assistant vineyard manager.

The A.A.S. degree in Viticulture is offered in consortium with the Viticulture and Enology Science and Technology Alliance (VESTA), a National Science Foundation-funded partnership between the Missouri State University system and colleges, universities, vineyards and wineries across the United States.

## Fully Offered At:

- Ashtabula Campus

## Admission Requirements

The university affirmatively strives to provide educational opportunities and access to students with varied backgrounds, those with special talents and adult students who graduated from high school three or more years ago.

Kent State campuses at Ashtabula, East Liverpool, Geauga, Salem, Stark, Trumbull and Tuscarawas, and the Twinsburg Academic Center, have open enrollment admission for students who hold a high school diploma, GED or equivalent.

For more information on admissions, contact the Regional Campuses admissions offices.

## Program Learning Outcomes

Graduates of this program will be able to:

1. Identify and safely use planting, cultivating, spraying and harvesting equipment found in a vineyard
2. Identify the various parts of a grapevine and describe the sequential growth cycle of grapevines
3. Properly prune grapevines, including calculations regarding the appropriate balanced pruning formula
4. Identify and treat major pest, weed and fungus infestations in a vineyard, including preventative treatments
5. Perform random sample on vines to predict crop yield and maintain vine balance
6. Collect fruit samples and perform lab analyses regarding harvest parameters
7. Make decisions regarding vineyard management practices, including planting, pruning, harvest, nutrition, planning and winterization

## University Requirements

All students in an applied or technical associate degree program at Kent State University must complete the following university requirements for graduation.

**NOTE:** University requirements may be fulfilled in this program by specific course requirements, please see Program Requirements for details.

Code	Title	Credit Hours
	Destination Kent State: First Year Experience	1
	Course is not required for students with 25 transfer credits, excluding College Credit Plus, or age 21+ at time of admission.	
	Kent Core (see table below)	15
	<b>Total Credit Hour Requirement</b>	<b>60</b>
	Some associate degrees require students to complete more than 60 credit hours.	

## Graduation Requirements

Minimum Major GPA	Minimum Overall GPA
2.000	2.000

## Kent Core Requirements

Kent Core Composition (KCMP)	3
Kent Core Mathematics and Critical Reasoning (KMCR)	3
Kent Core Humanities and Fine Arts (KHUM/KFA)	3
Kent Core Social Sciences (KSS)	3
Kent Core Basic Sciences (KBS/KLAB)	3
<b>Total Credit Hours:</b>	<b>15</b>

## Program Requirements

### Major Requirements

Code	Title	Credit Hours
<b>Major Requirements (courses count in major GPA)</b>		
ENOL 14600	INTRODUCTION TO ENOLOGY	3
VIN 10500	MOLECULAR PRINCIPLES IN GRAPE AND WINE	4
VIN 11100	INTRODUCTION TO VITICULTURE AND VINEYARD ESTABLISHMENT	3
VIN 11392	WINTER VITICULTURE FIELDWORK (ELR)	2
VIN 11492	SPRING VITICULTURE FIELDWORK (ELR)	2
VIN 11592	SUMMER/FALL VITICULTURE FIELDWORK (ELR)	2
VIN 21100	INTEGRATED PEST MANAGEMENT	2
VIN 21300	REGIONAL VINEYARD MANAGEMENT	2
VIN 29300	SOILS FOR VITICULTURE	3
	Enology (ENOL) or Viticulture (VIN) Electives	8
<b>Additional Requirements (courses do not count in major GPA)</b>		
BMRT 11000 or BMRT 21020	INTRODUCTION TO BUSINESS INTRODUCTION TO ENTREPRENEURSHIP	3
BSCI 10002 & BSCI 10003 or BSCI 10110	LIFE ON PLANET EARTH (KBS) and LABORATORY EXPERIENCE IN BIOLOGY (KBS) (KLAB) BIOLOGICAL DIVERSITY (KBS) (KLAB)	4
BSCI 16001 or VIN 11200	HORTICULTURAL BOTANY BOTANICAL VITICULTURE	3-4
UC 10097	DESTINATION KENT STATE: FIRST YEAR EXPERIENCE	1
	Kent Core Composition	3
	Kent Core Mathematics and Critical Reasoning	3
	Kent Core Humanities and Fine Arts	3
	Kent Core Social Sciences	3
	General Electives (total credit hours depends on earning minimum 60 credit hours)	6
	<b>Minimum Total Credit Hours:</b>	<b>60</b>

## Roadmap

This roadmap is a recommended semester-by-semester plan of study for this major. However, courses designated as critical (!) must be completed in the semester listed to ensure a timely graduation.

Semester One		Credits
BSCI 10002	LIFE ON PLANET EARTH (KBS)	4
& BSCI 10003	and LABORATORY EXPERIENCE IN BIOLOGY (KBS) (KLAB)	
or BSCI 10110	or BIOLOGICAL DIVERSITY (KBS) (KLAB)	
ENOL 14600	INTRODUCTION TO ENOLOGY	3
UC 10097	DESTINATION KENT STATE: FIRST YEAR EXPERIENCE	1
VIN 10500	MOLECULAR PRINCIPLES IN GRAPE AND WINE	4
VIN 11100	INTRODUCTION TO VITICULTURE AND VINEYARD ESTABLISHMENT	3
Credit Hours		15
Semester Two		Credits
BSCI 16001	HORTICULTURAL BOTANY	3-4
or VIN 11200	or BOTANICAL VITICULTURE	
VIN 11392	WINTER VITICULTURE FIELDWORK (ELR)	2
VIN 11492	SPRING VITICULTURE FIELDWORK (ELR)	2
VIN 11592	SUMMER/FALL VITICULTURE FIELDWORK (ELR)	2
Kent Core Requirement		3
Kent Core Requirement		3
Credit Hours		15
Semester Three		Credits
VIN 21100	INTEGRATED PEST MANAGEMENT	2
VIN 29300	SOILS FOR VITICULTURE	3
Enology (ENOL) or Viticulture (VIN) Electives		4
Kent Core Requirement		3
General Elective		3
Credit Hours		15
Semester Four		Credits
BMRT 11000	INTRODUCTION TO BUSINESS	3
or BMRT 21020	or INTRODUCTION TO ENTREPRENEURSHIP	
VIN 21300	REGIONAL VINEYARD MANAGEMENT	2
Enology (ENOL) or Viticulture (VIN) Electives		4
Kent Core Requirement		3
General Elective		3
Credit Hours		15
Minimum Total Credit Hours:		60

## Viticulture -Undergraduate Certificate

### College of Applied and Technical Studies

cats@kent.edu  
www.kent.edu/cats

## Description

The certificate in Viticulture provides students with the practical experiences and technological skills of the cultivation of grapes for making wine. This program emphasizes hands-on experiences and internships at local vineyards and wineries in Ohio.

Students who complete the certificate are qualified for positions in the commercial winemaking industry as a viticulturist, vineyard manager and assistant vineyard manager.

### Fully Offered At:

- Ashtabula Campus

## Admission Requirements

The university affirmatively strives to provide educational opportunities and access to students with varied backgrounds, those with special talents and adult students who graduated from high school three or more years ago.

Kent State campuses at Ashtabula, East Liverpool, Geauga, Salem, Stark, Trumbull and Tuscarawas, and the Twinsburg Academic Center, have open enrollment admission for students who hold a high school diploma, GED or equivalent.

For more information on admissions, contact the Regional Campuses admissions offices.

## Program Requirements

### Certificate Requirements

Code	Title	Credit Hours
<b>Certificate Requirements</b>		
VIN 11100	INTRODUCTION TO VITICULTURE AND VINEYARD ESTABLISHMENT	3
VIN 11200	BOTANICAL VITICULTURE	4
or BSCI 16001	HORTICULTURAL BOTANY	
VIN 11392	WINTER VITICULTURE FIELDWORK (ELR)	2
VIN 11492	SPRING VITICULTURE FIELDWORK (ELR)	2
VIN 11592	SUMMER/FALL VITICULTURE FIELDWORK (ELR)	2
VIN 21100	INTEGRATED PEST MANAGEMENT	2
VIN 21300	REGIONAL VINEYARD MANAGEMENT	2
VIN 29300	SOILS FOR VITICULTURE	3
Minimum Total Credit Hours:		20

### Graduation Requirements

Minimum Certificate GPA	Minimum Overall GPA
2.000	2.000

## College of Architecture and Environmental Design

### College of Architecture and Environmental Design

Center for Architecture and Environmental Design  
Kent Campus  
330-672-2917  
CAED\_info@kent.edu  
www.kent.edu/caed

### Academic Advising Office

Center for Architecture and Environmental Design  
Kent Campus  
<http://www.kent.edu/caed/advising>

## Mission

The College of Architecture and Environmental Design at Kent State University is dedicated to preparing graduates for leadership in a rapidly changing world, focused on professions relating to the design and construction of the built environment. Whether Architecture, Interior Design, Urban Design, Landscape Architecture, Healthcare Design, or Construction Management, our commitment is to the education of professionals who are committed to enhancing the built environment, improving the quality of life, protecting and enriching public welfare.

The college broadens students' exposure to advanced tools, techniques, theories, and complements its progressive curricula with robust co-curricular opportunities ranging from lecture and exhibition series, to symposia and traveling workshops. Experiential, collaborative, cross-disciplinary, hands-on, project-based learning in classrooms, studios, and labs—as well as on project sites and in domestic and foreign cities, is key to a vibrant, forward-leaning education at the College of Architecture and Environmental Design.

The college invests in scholarship and research in the various disciplines, and in the dissemination of new knowledge. It contributes to the public welfare through outreach programs to assist communities in their efforts and interest in improving the physical environment.

## Undergraduate Programs

- Architectural Studies - B.A.
- Architecture - B.S.
- Construction Management - B.S.
- Interior Design - B.A.

## Minors

- Architectural History
- Architectural Studies
- Construction Management
- Historic Preservation

## Graduate Programs

- Architecture - M.Arch.
- Architecture and Environmental Design - M.S.
- Construction Management - M.S.
- Healthcare Design - M.H.D.
- Landscape Architecture - M.L.A. I
- Landscape Architecture - M.L.A. II
- Urban Design - M.U.D.

## Graduate Certificates

- Health Systems and Facilities Design

## College of Architecture and Environmental Design Faculty

- Adamtey, Simon (2016), Assistant Professor
- Bayramzadeh, Sara (2018), Assistant Professor, Ph.D., University of Florida, 2015
- Bernal, Ivan A. (2018), Associate Professor & Program Director, M.Arch., Southern California Institute of Architecture, 2011

- Brandner, Sara K. (2010), Lecturer
- Cho, Ji Young (2010), Assistant Professor, Ph.D., University of Missouri-Columbia, 2011
- Coffman, Reid R. (2012), Associate Professor
- Daniel, Ronn (2018), Associate Professor, M.A., University of Illinois at Chicago, 1994
- Davis-Sikora, Diane M. (1997), Associate Professor, M.Arch., Harvard University Graduate & Professional School, 1995
- Frederick, Charles M. (1996), Assistant Professor, M.L.A., University of Virginia, Main Campus, 1998
- Hughes, David (1985), Professor, M.U.P., New York City College of Technology, 1975
- Jaminet, Jean J. (2017), Assistant Professor, M.Arch., Princeton University, 2004
- Karpinski, Joseph (1990), Senior Lecturer, M.Tech, Kent State University, 2005
- Lahrmer, Jill (2008), Assistant Professor, B.A., Bowling Green University, 1999
- Liu, Rui (2013), Associate Professor, Ph.D., University of Colorado, Denver, 2010
- Lucak, Frederick W. (1986), Associate Professor, B.Arch., Kent State University, 1990
- Marshall, Cathy S. (2017), Associate Professor, M.L.A., Harvard University Graduate and Professional School, 2003
- Meshkani, Taraneh (2018), Assistant Professor, Harvard University Graduate & Professional School, 2016
- Mirando, Anthony M. (2013), Lecturer, M.S., Colorado State University, 2014
- Onsarigo, Lameck M. (2016), Assistant Professor, Ph.D., Indiana State University, 2016
- Patel, Tina (2018), Assistant Professor
- Peters, Brian (2013), Assistant Professor, M.Arch., University of Illinois-Chicago, 2005
- Poustinchi, Mohammad Ebrahim (2017), Assistant Professor, M.Arch., University of California, Los Angeles, 2014
- Robison, Elwin C. (1985), Professor, Ph.D., Cornell University, 1985
- Rugare, Steven N. (1993), Associate Professor
- Safley, Robert N. (2018), Assistant Professor, M.Arch., University of Michigan, Ann Arbor, 2013
- Sharag-Eldin, Adil M.K. (2002), Associate Professor, Ph.D., University of California-Berkeley, 1998
- Sharag-Eldin, Adil M. (2002), Associate Professor, Ph.D., University of California, Berkeley, 1998
- Stauffer, Thomas A. (1977), Professor, M.Arch., University of Pennsylvania, 1976
- Strand, Kathryn E. (2003), Associate Professor, M.Arch., University of Pennsylvania, 2003
- Stroh, Gregory S. (1998), Associate Professor, M.Arch., University of Pennsylvania, 1996
- Tippet, Brett D. (2012), Associate Professor, Ph.D., Universidad de Navarra, 2011
- Willoughby, William T. (2013), Associate Professor & Associate Dean, M.A., Kent State University, 1991
- Yoder, Jon (2013), Associate Professor, Ph.D., University of California-Los Angeles, 2011



## Architecture and Environmental Design (AED)

### AED 10001 DESIGN THINKING I 2 Credit Hours

Provides a broad, interdisciplinary introduction to design culture and the visualization of ideas and information through observations of the object in space.

**Prerequisite:** Architecture, Architectural Studies or Interior Design major.

**Corequisite:** AED 10101.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

### AED 10002 DESIGN THINKING II 2 Credit Hours

Explores the role of design in society with a focus on purpose and meaning of form and space in relation to the human body.

**Prerequisite:** AED 10001; and Architecture, Interior Design, or Architectural Studies major.

**Corequisite:** AED 10102.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

### AED 10101 DESIGN FOUNDATIONS STUDIO I 3 Credit Hours

Introduction to the organizational principles and tools designers use to interpret and shape the built environment.

**Prerequisite:** Architecture, Architectural studies or Interior Design major.

**Corequisite:** AED 10001.

**Schedule Type:** Studio

**Contact Hours:** 6 other

**Grade Mode:** Standard Letter

### AED 10102 DESIGN FOUNDATIONS STUDIO II 3 Credit Hours

A continued exploration of the organizational principles and tools designers use to interpret and shape the built environment.

**Prerequisite:** AED 10101; and Architecture, Interior Design or Architectural Studies major.

**Schedule Type:** Studio

**Contact Hours:** 6 other

**Grade Mode:** Standard Letter

### AED 60922 METHODS OF INQUIRY IN ARCHITECTURAL STUDIES 2 Credit Hours

(Cross-listed with ARCH 60922 and LARC 60922) Provides a comprehensive coverage of architectural inquiry techniques, including qualitative and quantitative research methods and critical-thinking skills to help students better conduct and understand research.

**Prerequisite:** Graduate standing.

**Corequisite:** AED 60923.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

### AED 60923 EMPIRICAL RESEARCH IN ENVIRONMENTAL DESIGN 1 Credit Hour

(Cross-listed with LARC 60923) Introduces a student to faculty-directed research in a field with the environmental design domain. Typically, the course will include lectures by research faculty, readings from primary and review literature, and regular discussions among students, faculty and other research associates working under the direction of a principal investigator.

**Prerequisite:** Graduate standing; and special approval.

**Corequisite:** AED 60922.

**Schedule Type:** Lecture

**Contact Hours:** 1 lecture

**Grade Mode:** Standard Letter

### AED 60930 APPLIED RESEARCH METHODS IN ARCHITECTURE AND ENVIRONMENTAL DESIGN 3 Credit Hours

Addresses ontological and epistemological underpinnings of applied research methods in the environmental design fields. It is intended to extend students' understanding of quantitative and qualitative research methods, data collection, analysis and interpretation.

**Prerequisite:** Minimum B- grade in the following courses AED 60922 and 60923; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

### AED 66099 THESIS PREPARATION SEMINAR 2 Credit Hours

Designed for students writing a thesis in the Master of Science in Architecture and Environmental Design Program. Supports students development of research topics, review relevant research and scholarship, frame research questions and arguments, choose an appropriate methodology for analysis, and draft introductory and methodology sections of the thesis proposal document.

**Prerequisite:** AED 60922 and 60923 and 60930; and ARCH 60301; and graduate standing; and special approval.

**Schedule Type:** Seminar

**Contact Hours:** 2 other

**Grade Mode:** Standard Letter

### AED 66199 THESIS I 6 Credit Hours

Thesis students must register for a total of 6 hours.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Masters Thesis

**Contact Hours:** 6 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

### AED 66299 THESIS II 2 Credit Hours

Following completion of 6 credit hours of Thesis I all graduate students must continuously register for Thesis II for all subsequent academic terms (including summer) until all degree requirements are met.

**Prerequisite:** 6 credit hours of AED 66199; and graduate standing; and special approval.

**Schedule Type:** Masters Thesis

**Contact Hours:** 2 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

## Architecture (ARCH)

### ARCH 10001 UNDERSTANDING ARCHITECTURE (KFA) 3 Credit Hours

The nature of the built environment, its forms and functions are explored within the cultural contexts of ecology, technology, human behavior, symbolism, art and history.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Kent Core Fine Arts, Transfer Module Fine Arts

### ARCH 10011 GLOBAL ARCHITECTURAL HISTORY I (KFA) 3 Credit Hours

Global history of architecture from Neolithic times through the 16th century.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Kent Core Fine Arts, Transfer Module Fine Arts

### ARCH 10012 GLOBAL ARCHITECTURAL HISTORY II (KFA) 3 Credit Hours

Global history of architecture from the 17th century to 2000.

**Prerequisite:** ARCH 10011 or ARTH 22007.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Kent Core Fine Arts, Transfer Module Fine Arts

### ARCH 10093 WORKSHOP: VARIABLE TITLE 1-3 Credit Hours

(Repeatable for credit) Topics vary per workshop offering.

**Prerequisite:** Special approval.

**Schedule Type:** Workshop

**Contact Hours:** 1-3 other

**Grade Mode:** Satisfactory/Unsatisfactory

### ARCH 10101 FIRST YEAR DESIGN STUDIO I 3 Credit Hours

Introduction to the fundamental principles of visual organization, structural organization, graphic communications, historical precedence and current directions in architecture. Graphic techniques include free hand drawing and technical orthographics, axonometrics and perspectives.

**Prerequisite:** Architecture major or Interior Design major.

**Schedule Type:** Studio

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

### ARCH 10102 FIRST-YEAR DESIGN STUDIO II 3 Credit Hours

Investigations into strategies of form making through the introduction of client, type, context, site and form/space theories, 2-D and 3-D representation techniques and analysis of related reference architects.

**Prerequisite:** ARCH 10101.

**Schedule Type:** Studio

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

### ARCH 10111 HISTORY OF ARCHITECTURE I 3 Credit Hours

History of architecture from pre-history through the Gothic period.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

### ARCH 20101 SECOND-YEAR DESIGN STUDIO I 3 Credit Hours

The introduction of a building design process that emphasizes the integration of program requirements with specific form topologies using line and plane as the primary elements to provide shape and space.

**Prerequisite:** ARCH 10102.

**Schedule Type:** Studio

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

### ARCH 20102 SECOND-YEAR DESIGN STUDIO II 3 Credit Hours

The introduction of a building design process that emphasizes the integration of program requirements with form typologies that are both influenced and informed by specific site context. Line and plane and primary configurational shapes are again incorporated to develop building form solutions.

**Prerequisite:** ARCH 20101.

**Schedule Type:** Studio

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

### ARCH 20112 HISTORY OF ARCHITECTURE II 3 Credit Hours

History of architecture from the Medieval era through the 19th century.

**Prerequisite:** Architecture major; or Architectural Studies major or minor.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

### ARCH 20113 HISTORY OF ARCHITECTURE III 3 Credit Hours

A history of architecture in the 20th century.

**Prerequisite:** ARCH 20112; and Architecture or Architectural Studies major or Architectural Studies minor.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

### ARCH 20201 BEYOND WESTERN ARCHITECTURE 3 Credit Hours

Course introduces students to the broad realm of contributions to world architecture made by cultures and civilizations that were not in the traditional sphere of Western/European influence.

**Prerequisite:** ARCH 10111 and ARCH 20112; and Architecture major or Architectural Studies major.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

### ARCH 20301 INTRODUCTION TO BUILDING STRUCTURES 3 Credit Hours

An introduction to building structures, statics, strength of materials, analysis for shear-moment-displacement and loads. Includes dead-live-wind-earthquake and building code requirements for structural safety.

**Prerequisite:** MATH 12011 and MATH 12012 (or MATH 12002); and PHY 13001 or PHY 13011; and Architecture major.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ARCH 20601 COMPUTER APPLICATIONS IN ARCHITECTURE I 1-3 Credit Hours**

Course provides a basic understanding of two-dimensional CAD operations, parametric building design and building information modeling (BIM).

**Prerequisite:** Architecture major or Architectural Studies major or Interior Design major.

**Schedule Type:** Studio

**Contact Hours:** 15-45 other

**Grade Mode:** Standard Letter

**ARCH 20602 COMPUTER APPLICATIONS IN ARCHITECTURE II 1-3 Credit Hours**

Principles and practices of three-dimension digital modeling and rendering, including production of geometric surfaces and forms using polygon construction, texturing, lighting and rendering.

**Prerequisite:** ARCH 20601; and Architecture major or Architectural Studies major or Interior Design major.

**Schedule Type:** Studio

**Contact Hours:** 15-45 other

**Grade Mode:** Standard Letter

**ARCH 20693 WORKSHOP: COMPUTER APPLICATIONS 1-3 Credit Hours**

(Repeatable for credit) Course provides an exposure to various fundamental computer topics and their application to architectural studies. Topics include file management, network applications, spreadsheets, raster image manipulations, two- and three- dimensional CAD and computer-aided visualization.

**Prerequisite:** Architecture major or Interior Design majors.

**Schedule Type:** Workshop

**Contact Hours:** 1-3 other

**Grade Mode:** Satisfactory/Unsatisfactory

**ARCH 30001 SITE DESIGN (WIC) 1 Credit Hour**

Research component addressing technical, cultural and contextual concerns, influences and directions in site design.

**Prerequisite:** Architecture major; and approved admission to advanced study (third year).

**Corequisite:** ARCH 30101.

**Schedule Type:** Lecture

**Contact Hours:** 1 lecture

**Grade Mode:** Standard Letter

**Attributes:** Writing Intensive Course

**ARCH 30002 URBAN DESIGN 1 Credit Hour**

(Equivalent to ARCH 30012) Lecture component conducted concurrently with ARCH 30102. Course addresses design of form and space in cities through study of precedents, traditions and current directions in urban form-making.

**Prerequisite:** ARCH 30001 and ARCH 30101.

**Corequisite:** ARCH 30102.

**Schedule Type:** Lecture

**Contact Hours:** 1 lecture

**Grade Mode:** Standard Letter

**ARCH 30012 URBAN DESIGN, FLORENCE, ITALY 1 Credit Hour**

(Equivalent to ARCH 30002) Lecture component conducted concurrently with ARCH 30112. Course addresses design of form and space in cities through study of precedents, traditions and current directions in urban form making.

**Prerequisite:** ARCH 30101.

**Corequisite:** ARCH 30112.

**Schedule Type:** Lecture

**Contact Hours:** 1 lecture

**Grade Mode:** Standard Letter

**ARCH 30101 THIRD-YEAR DESIGN STUDIO I 5 Credit Hours**

Studio investigation of the simultaneous concerns of program, site, context and materials of construction. Specific emphasis on the understanding of the goals, objectives, intentions and parameters of site/context in design, including cultural influences.

**Prerequisite:** Architecture major; and approved admission to advanced study (third year).

**Corequisite:** ARCH 30001.

**Schedule Type:** Studio

**Contact Hours:** 5 other

**Grade Mode:** Standard Letter

**ARCH 30102 THIRD-YEAR DESIGN STUDIO II (ELR) 5 Credit Hours**

(Equivalent to ARCH 30112) Studio investigation with specific emphasis on the understanding of the goals, objectives, intentions and parameters of urban design.

**Prerequisite:** ARCH 30101.

**Corequisite:** ARCH 30002.

**Schedule Type:** Studio

**Contact Hours:** 5 other

**Grade Mode:** Standard Letter

**Attributes:** Experiential Learning Requirement

**ARCH 30112 THIRD-YEAR DESIGN STUDIO II, FLORENCE, ITALY (ELR) 5 Credit Hours**

(Equivalent to ARCH 30102) Studio investigation with specific emphasis on understanding of the goals, objectives, intentions and parameters of urban design.

**Prerequisite:** Special approval.

**Corequisite:** ARCH 30012.

**Schedule Type:** Studio

**Contact Hours:** 5 other

**Grade Mode:** Standard Letter

**Attributes:** Experiential Learning Requirement

**ARCH 40001 SUSTAINABLE DESIGN (WIC) 1 Credit Hour**

(Slashed with ARCH 50001) Research component addressing precedents, traditions, current directions in conservation of natural environment. Principles and methods of ecological design in architecture and urban design.

**Prerequisite:** ARCH 30102 or ARCH 30112.

**Corequisite:** ARCH 40101.

**Schedule Type:** Lecture

**Contact Hours:** 1 lecture

**Grade Mode:** Standard Letter

**Attributes:** Writing Intensive Course

**ARCH 40002 SYSTEMS DESIGN 1 Credit Hour**

(Slashed with ARCH 50002) Lecture and research component addressing comprehensive integration of mechanical, electrical communications structural life safety systems and sustainable design concerns.

**Prerequisite:** ARCH 40101.

**Corequisite:** ARCH 40102.

**Schedule Type:** Lecture

**Contact Hours:** 1 lecture

**Grade Mode:** Standard Letter

**ARCH 40101 FOURTH-YEAR DESIGN STUDIO I 5 Credit Hours**

(Slashed with ARCH 50101) Studio investigation of complex formal and spatial constructs addressing the comprehensive concerns of architecture. Special emphasis on understanding the conservation of the natural environment. Knowledge of CAD is required.

**Prerequisite:** ARCH 30102 or ARCH 30112.

**Corequisite:** ARCH 40001.

**Schedule Type:** Studio

**Contact Hours:** 5 other

**Grade Mode:** Standard Letter

**ARCH 40102 INTEGRATED DESIGN STUDIO 5 Credit Hours**

(Slashed with ARCH 50102) Studio investigation of the comprehensive concerns and understanding of building systems integration. Knowledge of CAD is required.

**Prerequisite:** ARCH 40101.

**Corequisite:** ARCH 40002.

**Schedule Type:** Studio

**Contact Hours:** 5 other

**Grade Mode:** Standard Letter

**ARCH 40301 STRUCTURAL SYSTEMS I 3 Credit Hours**

(Slashed with ARCH 50301) A continuation of building structures, statics strength of materials and systems analysis. Emphasis is on elastic materials, allowable stresses and design for wood and steel structural members and systems.

**Prerequisite:** ARCH 20301; and Architecture major; and approved admission to advanced study (third year).

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 6 other

**Grade Mode:** Standard Letter

**ARCH 40302 STRUCTURAL SYSTEMS II 3 Credit Hours**

(Slashed with ARCH 50302) A continuation of building structures, statics, strength of materials and systems analysis. Emphasis is on inelastic materials, allowable stress and design for masonry and concrete structural members and systems.

**Prerequisite:** ARCH 40301.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**ARCH 40401 METHODS AND MATERIALS I 3 Credit Hours**

(Slashed with ARCH 50401) Introduction to the origins, extraction, properties and processing of the basic materials of construction. Primary focus on wood and masonry-appropriate use and scale including code requirements, methods of construction and design consequences.

**Prerequisite:** Architecture major; and approved admission to advanced study (third year).

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 6 other

**Grade Mode:** Standard Letter

**ARCH 40402 METHODS AND MATERIALS II 3 Credit Hours**

(Slashed with ARCH 50402) Continued investigation of the origins, extraction, properties and processing of the basic materials of construction. Primary focus on concrete and steel-appropriate use and scale, including allied systems and building materials. Introduction to construction contract documents.

**Prerequisite:** ARCH 40401.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**ARCH 40501 ENVIRONMENTAL TECHNOLOGY I 3 Credit Hours**

(Slashed with ARCH 50501) Basic principles of ecological design and architecture environmental systems including lighting, sonic and thermal systems.

**Prerequisite:** PHY 13012; and Architecture major; and approved admission to advanced study (third year); or Interior Design major with special approval.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 4.5 other

**Grade Mode:** Standard Letter

**ARCH 40502 ENVIRONMENTAL TECHNOLOGY II 3 Credit Hours**

(Slashed with ARCH 50502) Ecological design of large buildings. Investigation and analysis of lighting, thermal, water, electrical and waste systems in urban settings.

**Prerequisite:** ARCH 40501.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**ARCH 44611 PORTFOLIO 1 Credit Hour**

Architectural drawings and other allied work of the student reproduced and assembled in a professional portfolio suitable for job and graduate application.

**Prerequisite:** ARCH 40101.

**Schedule Type:** Lecture

**Contact Hours:** 1 lecture

**Grade Mode:** Standard Letter

**ARCH 45210 RENAISSANCE ARCHITECTURE 3 Credit Hours**

(Slashed with ARCH 55210) History and theory of renaissance architecture from 1400 until 1600.

**Prerequisite:** ARCH 10011 and ARCH 10012; or ARCH 10111 and ARCH 20112; or ARTH 22006 and ARCH 22007.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ARCH 45211 BAROQUE ARCHITECTURE 3 Credit Hours**

(Slashed with ARCH 55211) History and theory of architecture in Europe from 1600 through 1750.

**Prerequisite:** ARCH 10011 and ARCH 10012; or ARCH 10111 and ARCH 20112; or ARTH 22006 and ARTH 22007.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ARCH 45213 20TH CENTURY ARCHITECTURAL HISTORY 3 Credit Hours**

(Slashed with ARCH 55213) History and theory of architecture during the 20th century.

**Prerequisite:** ARCH 10011 and ARCH 10012.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ARCH 45220 AMERICAN ARCHITECTURE: COLONIAL TO 1900 3 Credit Hours**

(Slashed with ARCH 55220) History of American architecture for Spanish, French, Dutch and English colonization through the 19th century.

**Prerequisite:** ARCH 10011 and ARCH 10012; or ARCH 10111 and ARCH 20112; or ARTH 22006 and ARTH 22007.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ARCH 45230 FRANK LLOYD WRIGHT 3 Credit Hours**

(Slashed with ARCH 55230) Examination of the life, buildings and literary works of Frank Lloyd Wright with emphasis on his contributions to American art and architecture and his place in American intellectual history.

**Prerequisite:** ARCH 10011 and ARCH 10012.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ARCH 45240 THE SKYSCRAPER 3 Credit Hours**

(Slashed with ARCH 55240) A study of skyscrapers from the standpoint of architectural, financial, structural, psychological and technological considerations. Emphasis is placed on the early developments in Chicago and New York, the influence of the international style and the current trends in ultra-high skyscrapers built outside the United States.

**Prerequisite:** Minimum C grade in ARCH 10111 and ARCH 20112.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ARCH 45241 ARCHITECTURE OF WORLD'S FAIRS 3 Credit Hours**

(Slashed with ARCH 55241) Students investigate world's fairs and related expositions as a cultural phenomenon, an urban design challenge and an opportunity to advance and popularize ideas in architecture and design.

**Prerequisite:** ARCH 10011 and ARCH 10012.

**Schedule Type:** Seminar

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**ARCH 45291 SEMINAR: VARIABLE TOPICS IN ARCHITECTURAL HISTORY 1-3 Credit Hours**

(Repeatable for maximum 3 credit hours)(Slashed with ARCH 55291) Content within architectural history varies per course offering.

**Prerequisite:** Special approval.

**Schedule Type:** Seminar

**Contact Hours:** 1-3 other

**Grade Mode:** Standard Letter

**ARCH 45391 SEMINAR: STRUCTURES III 1-3 Credit Hours**

(Repeatable for credit)(Slashed with ARCH 55391) A continuation of building structures, statics, strength of materials and systems analysis. Emphasis is on complex systems, including horizontal long span and high rise structures. Computer analysis is required.

**Prerequisite:** ARCH 40302.

**Schedule Type:** Seminar

**Contact Hours:** 1-3 other

**Grade Mode:** Standard Letter

**ARCH 45491 SEMINAR: METHODS AND MATERIALS III 1-3 Credit Hours**

(Repeatable for credit)(Slashed with ARCH 55491) Advanced topics in methods and complex materials systems. Computer modeling and field experiences are required.

**Prerequisite:** ARCH 40402.

**Schedule Type:** Seminar

**Contact Hours:** 1-3 other

**Grade Mode:** Standard Letter

**ARCH 45591 SEMINAR: ENVIRONMENTAL TECHNOLOGY III 1-3 Credit Hours**

(Repeatable for credit)(Slashed with ARCH 55591) Variable topics in environmental technology, environmental design and energy conservation, advanced lighting techniques etc.

**Prerequisite:** ARCH 40502.

**Schedule Type:** Seminar

**Contact Hours:** 1-3 other

**Grade Mode:** Standard Letter

**ARCH 45601 ADVANCED COMPUTER APPLICATIONS 1-3 Credit Hours**

(Slashed with ARCH 55601) Course discusses advanced visualization techniques such as raytracing, radiosity and animation. Presents a variety of presentation issues and options.

**Prerequisite:** Approved admission to third year; and special approval.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 1-3 other

**Grade Mode:** Standard Letter

**ARCH 45620 INTRODUCTION TO PRESERVATION 1-3 Credit Hours**

(Repeatable for maximum 3 credit hours)(Slashed with ARCH 55620) An overview of preservation, including building analysis, conservation, adaptive reuse, economic benefits of preservation and preservation planning as a revitalizing strategy.

**Prerequisite:** Special approval.

**Schedule Type:** Lecture

**Contact Hours:** 1-3 lecture

**Grade Mode:** Standard Letter

**ARCH 45621 CURRENT ISSUES IN HISTORIC PRESERVATION 1-3 Credit Hours**

(Repeatable for maximum 3 credit hours)(Slashed with ARCH 55621) Practicing professionals—including architects, planners, developers and government officials—present preservation related work.

**Prerequisite:** Special approval.

**Schedule Type:** Lecture

**Contact Hours:** 1-3 lecture

**Grade Mode:** Standard Letter



**ARCH 45625 EXPLORING HISTORIC STRUCTURES 3 Credit Hours**  
(Slashed with ARCH 55625) Course provides students with the skills and opportunity to document an historic structure using methods prescribed by the Historic American Buildings Survey (HABS). Covers recording, documentation and assessment of the historic structure, implementing the guidelines established by the Getty Conservation Institute, including history, purpose, means, methods and field work.  
**Prerequisite:** Junior standing and approved admission to advanced study (third year).

**Schedule Type:** Laboratory, Lecture  
**Contact Hours:** 1.2 lecture, 3.6 lab  
**Grade Mode:** Standard Letter

**ARCH 45627 PRESERVATION TECHNOLOGY 3 Credit Hours**  
(Slashed with ARCH 55627) Study of historic building materials with an emphasis on causes of degradation, strategies for conservation and standards for restoration.  
**Prerequisite:** Junior or senior standing; and Architecture major.  
**Schedule Type:** Lecture  
**Contact Hours:** 3 lecture  
**Grade Mode:** Standard Letter

**ARCH 45630 INTRODUCTION TO LANDSCAPE ARCHITECTURE 1-3 Credit Hours**  
(Repeatable for maximum 3 credit hours)(Slashed with ARCH 55630) Introduction to landscape design with emphasis upon the relationship between landscape and buildings.  
**Prerequisite:** None.  
**Schedule Type:** Lecture  
**Contact Hours:** 1-3 lecture  
**Grade Mode:** Standard Letter

**ARCH 45631 SITE ANALYSIS AND DESIGN 1-3 Credit Hours**  
(Repeatable for maximum 3 credit hours)(Slashed with ARCH 55631) Analysis of environmental factors as a basis for site selection and site planning.  
**Prerequisite:** None.  
**Schedule Type:** Lecture  
**Contact Hours:** 1-3 lecture  
**Grade Mode:** Standard Letter

**ARCH 45640 DEVELOPING ENVIRONMENTS FOR OLDER ADULTS 1-3 Credit Hours**  
(Repeatable for maximum 3 credit hours)(Slashed with ARCH 55640) Research of existing built environments and an investigation of the planning design process for the elderly.  
**Prerequisite:** None.  
**Schedule Type:** Lecture  
**Contact Hours:** 1-3 lecture  
**Grade Mode:** Standard Letter

**ARCH 45701 URBAN DESIGN STUDIO I 3-6 Credit Hours**  
(Repeatable for maximum 6 credit hours) Introduction to urban design and its relationship to other design disciplines through analysis of neighborhoods and definition of comprehensive area improvement programs.  
**Prerequisite:** Special approval.  
**Schedule Type:** Studio  
**Contact Hours:** 3-6 other  
**Grade Mode:** Standard Letter

**ARCH 45703 THEORIES AND PRINCIPLES OF URBAN DESIGN 1-3 Credit Hours**  
(Repeatable for maximum 3 credit hours) Course on the nature and utility of theory in urban design, examining the relationship between design ideologies and the theories of the environment on which they are based.  
**Prerequisite:** None.  
**Schedule Type:** Lecture  
**Contact Hours:** 1-3 lecture  
**Grade Mode:** Standard Letter

**ARCH 45704 THEORIES AND PRINCIPLES OF URBAN DESIGN II 1-3 Credit Hours**  
(Repeatable for maximum 3 credit hours) Focuses on the relationship between design ideologies or theories and the realities of existing spatial relationships or precedents.  
**Prerequisite:** Special approval.  
**Schedule Type:** Lecture  
**Contact Hours:** 1-3 lecture  
**Grade Mode:** Standard Letter

**ARCH 45793 WORKSHOP IN URBAN DESIGN AND PLANNING 1-3 Credit Hours**  
(Repeatable for maximum 3 credit hours)(Slashed with ARCH 45793) Course provides an introduction to the scope of planning and design in the making of quality urban neighborhoods, with a particular emphasis on the role of urban design, architecture and landscape design.  
**Prerequisite:** None.  
**Schedule Type:** Workshop  
**Contact Hours:** 1-3 other  
**Grade Mode:** Satisfactory/Unsatisfactory

**ARCH 46991 SEMINAR: VARIABLE TOPIC 1-3 Credit Hours**  
(Repeatable for credit)(Slashed with ARCH 56991) Variable topic seminar.  
**Prerequisite:** approved admission to advanced study (third year).  
**Schedule Type:** Seminar  
**Contact Hours:** 1-3 other  
**Grade Mode:** Standard Letter

**ARCH 46992 FIELD STUDY (ELR) 1-3 Credit Hours**  
(Repeatable for credit)(Slashed with ARCH 56992) Variable topic field experience.  
**Prerequisite:** Approved admission to advanced study (third year).  
**Schedule Type:** Field Experience  
**Contact Hours:** 1-3 other  
**Grade Mode:** Standard Letter  
**Attributes:** Experiential Learning Requirement

**ARCH 46993 WORKSHOP: VARIABLE TOPIC 1-3 Credit Hours**  
(Repeatable for credit)(Slashed with ARCH 56993) Variable topic workshop.  
**Prerequisite:** Approved admission to advanced study (third year).  
**Schedule Type:** Workshop  
**Contact Hours:** 1-3 other  
**Grade Mode:** Satisfactory/Unsatisfactory

**ARCH 46995 SPECIAL TOPICS IN ARCHITECTURE 1-3 Credit Hours**  
(Repeatable for credit)(Slashed with ARCH 56995) Special topics in architecture.  
**Prerequisite:** Approved admission to advanced study (third year).  
**Schedule Type:** Lecture  
**Contact Hours:** 1-3 lecture  
**Grade Mode:** Standard Letter-IP

**ARCH 46996 INDIVIDUAL INVESTIGATION 1-3 Credit Hours**

(Repeatable for credit) Student-initiated experience to pursue an area of interest not covered by a regular course offering, with the guidance of a Kent State faculty member.

**Prerequisite:** Special approval.

**Schedule Type:** Individual Investigation

**Contact Hours:** 1-3 other

**Grade Mode:** Standard Letter

**ARCH 50001 SUSTAINABLE DESIGN 1 Credit Hour**

(Slashed with ARCH 40001) Research component addressing precedents, traditions, current directions in conservation of natural environment. Principles and methods of ecological design in architecture and urban design.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 1 lecture

**Grade Mode:** Standard Letter

**ARCH 50002 SYSTEMS DESIGN 1 Credit Hour**

(Slashed with ARCH 40002) Lecture and research component addressing comprehensive integration of mechanical, electrical communications structural life safety systems and sustainable design concerns.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 1 lecture

**Grade Mode:** Standard Letter

**ARCH 50093 VARIABLE TITLE WORKSHOP IN ARCHITECTURE 1-6 Credit Hours**

(Repeatable for credit) Workshop topic varies per course offering.

**Prerequisite:** Graduate standing.

**Schedule Type:** Workshop

**Contact Hours:** 1-6 other

**Grade Mode:** Satisfactory/Unsatisfactory

**ARCH 50101 FOURTH-YEAR DESIGN STUDIO I 5 Credit Hours**

(Slashed with ARCH 40101) Studio investigation of complex formal and spatial constructs addressing the comprehensive concerns of architecture. Special emphasis on understanding the conservation of the natural environment. Knowledge of CAD is required.

**Prerequisite:** ARCH 30102 or ARCH 30112; and Graduate standing.

**Corequisite:** ARCH 50001.

**Schedule Type:** Studio

**Contact Hours:** 5 other

**Grade Mode:** Standard Letter

**ARCH 50102 INTEGRATED DESIGN STUDIO 5 Credit Hours**

(Slashed with ARCH 40102) Studio investigation of the comprehensive concerns and understanding of building systems integration. Knowledge of CAD is required.

**Prerequisite:** Graduate standing.

**Corequisite:** ARCH 50002.

**Schedule Type:** Studio

**Contact Hours:** 5 other

**Grade Mode:** Standard Letter

**ARCH 50301 STRUCTURAL SYSTEMS I 3 Credit Hours**

(Slashed with ARCH 40301) A continuation of building structures, statics strength of materials and systems analysis. Emphasis is on elastic materials, allowable stresses and design for wood and steel structural members and systems.

**Prerequisite:** ARCH 20301; and Architecture major; and graduate standing.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 6 other

**Grade Mode:** Standard Letter

**ARCH 50302 STRUCTURAL SYSTEMS II 3 Credit Hours**

(Slashed with ARCH 40302) A continuation of building structures, statics, strength of materials and systems analysis. Emphasis is on inelastic materials, allowable stress, and design for masonry and concrete structural members and systems.

**Prerequisite:** Graduate standing.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**ARCH 50401 METHODS AND MATERIALS I 3 Credit Hours**

(Slashed with ARCH 40401) Introduction to the origins, extraction, properties and processing of the basic materials of construction. Primary focus on wood and masonry-appropriate use and scale including code requirements, methods of construction and design consequences.

**Prerequisite:** Graduate standing.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 6 other

**Grade Mode:** Standard Letter

**ARCH 50402 METHODS AND MATERIALS II 3 Credit Hours**

(Slashed with ARCH 40402) Continued investigation of the origins, extraction, properties and processing of the basic materials of construction. Primary focus on concrete and steel-appropriate use and scale, including allied systems and building materials. Introduction to construction contract documents.

**Prerequisite:** Graduate standing.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**ARCH 50501 ENVIRONMENTAL TECHNOLOGY I 3 Credit Hours**

(Slashed with ARCH 40501) Basic principles of ecological design and architecture environmental systems including lighting, sonic and thermal systems.

**Prerequisite:** PHY 13012; and Architecture major; and approved admission to advanced study (third year); and graduate standing.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 4.5 other

**Grade Mode:** Standard Letter

**ARCH 50502 ENVIRONMENTAL TECHNOLOGY II 3 Credit Hours**

(Slashed with ARCH 40502) Ecological design of large buildings. Investigation and analysis of lighting, thermal, water, electrical and waste systems in urban settings.

**Prerequisite:** Graduate standing.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**ARCH 55101 FIFTH-YEAR DESIGN STUDIO I 6 Credit Hours**

Students investigate a new scale of environmental issues that integrate both architectural and urban planning. Included are site visits, data collection, design of a master plan and an architectural form response to a segment of the total conceptual plan.

**Prerequisite:** Graduate standing.

**Schedule Type:** Studio

**Contact Hours:** 6 other

**Grade Mode:** Standard Letter

**ARCH 55102 FIFTH-YEAR DESIGN STUDIO II 3-6 Credit Hours**

(Repeatable for maximum 6 credit hours) Advanced design studio emphasizing comprehensive and independent investigation. Explores and manifests ideas through architecture using competition and hypothetical or real projects as vehicles of expression.

**Prerequisite:** Graduate standing.

**Schedule Type:** Studio

**Contact Hours:** 3-6 other

**Grade Mode:** Standard Letter

**ARCH 55210 RENAISSANCE ARCHITECTURE 3 Credit Hours**

(Slashed with ARCH 45210) History and theory of Renaissance architecture from 1400 until 1600.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ARCH 55211 BAROQUE ARCHITECTURE 3 Credit Hours**

(Slashed with ARCH 45211) History and theory of architecture in Europe from 1600 through 1750.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ARCH 55213 20TH CENTURY ARCHITECTURAL HISTORY 3 Credit Hours**

(Slashed with ARCH 45213) History and theory of architecture during the 20th century.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ARCH 55220 AMERICAN ARCHITECTURE: COLONIAL TO 1900 3 Credit Hours**

(Slashed with ARCH 45220) History of American architecture for Spanish, French, Dutch and English colonization through the 19th century.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ARCH 55230 FRANK LLOYD WRIGHT 3 Credit Hours**

(Slashed with ARCH 45230) Examination of the life, buildings and literary works of Frank Lloyd Wright with emphasis on his contributions to American art and architecture and his place in American intellectual history.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ARCH 55240 THE SKYSCRAPER 3 Credit Hours**

(Slashed with ARCH 45240) A study of skyscrapers from the standpoint of architectural, financial, structural, psychological and technological considerations. Emphasis is placed on the early developments in Chicago and New York, the influence of the international style and the current trends in ultra-high skyscrapers built outside the United States.

**Prerequisite:** Minimum C grade in ARCH 10111 and ARCH 20112; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ARCH 55241 ARCHITECTURE OF WORLD'S FAIRS 3 Credit Hours**

(Slashed with ARCH 45241) Students investigate world's fairs and related expositions as a cultural phenomenon, an urban design challenge and an opportunity to advance and popularize ideas in architecture and design.

**Prerequisite:** Graduate standing.

**Schedule Type:** Seminar

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ARCH 55291 SEMINAR: VARIABLE TOPICS IN ARCHITECTURAL HISTORY 1-3 Credit Hours**

(Repeatable for maximum 3 credit hours)(Slashed with ARCH 45291) Content within architectural history varies per course offering.

**Prerequisite:** Graduate standing and special approval.

**Schedule Type:** Seminar

**Contact Hours:** 1-3 other

**Grade Mode:** Standard Letter

**ARCH 55391 SEMINAR: STRUCTURES III 1-3 Credit Hours**

(Repeatable for credit)(Slashed with ARCH 45391) A continuation of building structures, statics, strength of materials and systems analysis. Emphasis is on complex systems, including horizontal long span and high rise structures. Computer analysis is required.

**Prerequisite:** Graduate standing.

**Schedule Type:** Seminar

**Contact Hours:** 1-3 other

**Grade Mode:** Standard Letter

**ARCH 55491 SEMINAR: METHODS AND MATERIALS III 1-3 Credit Hours**

(Repeatable for credit)(Slashed with ARCH 45491) Advanced topics in methods and complex materials systems. Computer modeling and field experiences are required.

**Prerequisite:** Graduate standing.

**Schedule Type:** Seminar

**Contact Hours:** 1-3 other

**Grade Mode:** Standard Letter

**ARCH 55591 SEMINAR: ENVIRONMENTAL TECHNOLOGY III 1-3 Credit Hours**

(Repeatable for maximum 3 credit hours)(Slashed with ARCH 45591) Variable topics in environmental technology, environmental design and energy conservation, advanced lighting techniques, etc.

**Prerequisite:** Graduate standing.

**Schedule Type:** Seminar

**Contact Hours:** 1-3 other

**Grade Mode:** Standard Letter

**ARCH 55601 ADVANCED COMPUTER APPLICATIONS 1-3 Credit Hours**

(Repeatable for maximum 3 credit hours)(Slashed with ARCH 45601)  
Course discusses advanced visualization techniques such as raytracing, radiosity and animation. Presents a variety of presentation issues and options.

**Prerequisite:** Graduate standing.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 1-3 other

**Grade Mode:** Standard Letter

**ARCH 55620 INTRODUCTION TO PRESERVATION 1-3 Credit Hours**

(Repeatable for maximum 3 credit hours)(Slashed with ARCH 45620)

An overview of preservation, including building analysis, conservation, adaptive reuse, economic benefits of preservation and preservation planning as a revitalizing strategy.

**Prerequisite:** Graduate standing and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 1-3 lecture

**Grade Mode:** Standard Letter

**ARCH 55621 CURRENT ISSUES IN HISTORIC PRESERVATION 1-3 Credit Hours**

(Repeatable for maximum 3 credit hours)(Slashed with ARCH 45621)

Practicing professionals—including architects, planners, developers and government officials—present preservation related work.

**Prerequisite:** Graduate standing and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 1-3 lecture

**Grade Mode:** Standard Letter

**ARCH 55625 EXPLORING HISTORIC STRUCTURES 3 Credit Hours**

(Slashed with ARCH 45625) Course provides students with the skills and opportunity to document an historic structure using methods prescribed by the Historic American Buildings Survey (HABS). Covers recording, documentation and assessment of the historic structure, implementing the guidelines established by the Getty Conservation Institute, including history, purpose, means, methods and field work.

**Prerequisite:** Major in the College of Architecture and Environmental Design; and graduate standing.

**Schedule Type:** Laboratory, Lecture

**Contact Hours:** 1.2 lecture, 3.6 lab

**Grade Mode:** Standard Letter

**ARCH 55627 PRESERVATION TECHNOLOGY 3 Credit Hours**

(Slashed with ARCH 45627) Study of historic building materials with an emphasis on causes of degradation, strategies for conservation and standards for restoration.

**Prerequisite:** Minimum C grade in ARCH 40401 and ARCH 40402; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ARCH 55630 INTRODUCTION TO LANDSCAPE ARCHITECTURE 1-3 Credit Hours**

(Repeatable for maximum 3 credit hours)(Slashed with ARCH 45630)

Introduction to landscape design with emphasis upon the relationship between landscape and buildings.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 1-3 lecture

**Grade Mode:** Standard Letter

**ARCH 55631 SITE ANALYSIS AND DESIGN 1-3 Credit Hours**

(Repeatable for maximum 3 credit hours)(Slashed with ARCH 45631)  
Analysis of environmental factors as a basis for site selection and site planning.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 1-3 lecture

**Grade Mode:** Standard Letter

**ARCH 55640 DEVELOPING ENVIRONMENTS FOR OLDER ADULTS 1-3 Credit Hours**

(Repeatable for maximum 3 credit hours)(Slashed with ARCH 45640)

Research of existing built environments and an investigation of the planning design process for the elderly.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 1-3 lecture

**Grade Mode:** Standard Letter

**ARCH 55707 REPRESENTATION IN DESIGN 1-3 Credit Hours**

(Repeatable for maximum 3 credit hours) Course on the nature of communication in design and the representational tools the designer uses to give form to abstract ideas and converse with clients and colleagues.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 1-3 lecture

**Grade Mode:** Standard Letter

**ARCH 55793 WORKSHOP IN URBAN DESIGN AND PLANNING 1-3 Credit Hours**

(Repeatable for maximum 3 credit hours)(Slashed with ARCH 45793)

Course provides an introduction to the scope of planning and design in the making of quality urban neighborhoods, with a particular emphasis on the role of urban design, architecture and landscape design.

**Prerequisite:** Graduate standing.

**Schedule Type:** Workshop

**Contact Hours:** 1-3 other

**Grade Mode:** Satisfactory/Unsatisfactory

**ARCH 56991 SEMINAR: VARIABLE TOPIC 1-3 Credit Hours**

(Repeatable for maximum 3 credit hours)(Slashed with ARCH 46991)

Variable topic seminar.

**Prerequisite:** Graduate standing and special approval.

**Schedule Type:** Seminar

**Contact Hours:** 1-3 other

**Grade Mode:** Standard Letter

**ARCH 56992 FIELD STUDY 1-3 Credit Hours**

(Repeatable for maximum 3 credit hours)(Slashed with ARCH 46992)

Field experience.

**Prerequisite:** Graduate standing and special approval.

**Schedule Type:** Field Experience

**Contact Hours:** 1-3 other

**Grade Mode:** Standard Letter

**ARCH 56993 WORKSHOP: VARIABLE TOPIC 1-3 Credit Hours**

(Repeatable for credit)(Slashed with ARCH 46993) Field experience.

**Prerequisite:** Graduate standing.

**Schedule Type:** Workshop

**Contact Hours:** 1-3 other

**Grade Mode:** Satisfactory/Unsatisfactory

**ARCH 56995 SPECIAL TOPICS IN ARCHITECTURE 1-3 Credit Hours**  
(Repeatable for credit)(Slashed with ARCH 46995) Special topics in architecture.

**Prerequisite:** Graduate standing and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 1-3 lecture

**Grade Mode:** Standard Letter-IP

**ARCH 60101 GRADUATE DESIGN STUDIO I 3-6 Credit Hours**

Architectural studies related to buildings. Emphasis on spatial, aesthetic, environmental and functional factors in design.

**Prerequisite:** Graduate standing.

**Schedule Type:** Studio

**Contact Hours:** 3-6 other

**Grade Mode:** Standard Letter

**ARCH 60102 GRADUATE DESIGN STUDIO II 3-6 Credit Hours**

Independent design project, completed under the direction of an individual adviser selected from the graduate faculty.

**Prerequisite:** ARCH 60101 and ARCH 60301; and graduate standing.

**Corequisite:** ARCH 60922.

**Schedule Type:** Studio

**Contact Hours:** 3-6 other

**Grade Mode:** Standard Letter

**ARCH 60103 GRADUATE DESIGN STUDIO III 6-9 Credit Hours**

Capstone studio (or master's project) aimed at further investigating building design issues both at a greater depth of complexity and by focusing on particular design aspects or areas of concentration.

**Prerequisite:** ARCH 60102 and ARCH 60150 and ARCH 60922; and graduate standing.

**Schedule Type:** Studio

**Contact Hours:** 6-9 other

**Grade Mode:** Standard Letter-IP

**ARCH 60111 GRADUATE DESIGN FOUNDATIONS STUDIO 3-6 Credit Hours**

Graduate-level introduction to the organizational principles and tools designers use to interpret and shape the build environment.

**Prerequisite:** Graduate Standing.

**Schedule Type:** Studio

**Contact Hours:** 3-6 other

**Grade Mode:** Standard Letter

**ARCH 60112 GRADUATE DESIGN ARCHITECTURE STUDIO 3-6 Credit Hours**

The introduction of a building design process that emphasizes the integration of program requirements with specific form typologies using architectural elements as the primary components to design shape, space, and form.

**Prerequisite:** Graduate Standing.

**Schedule Type:** Studio

**Contact Hours:** 3-6 other

**Grade Mode:** Standard Letter

**ARCH 60113 GRADUATE DESIGN CONTEXT STUDIO 3-6 Credit Hours**

Studio investigation that includes consideration of program, site, context, materiality and tectonics. Specific emphasis on understanding the influences of site, context and urban design, including the role of social and cultural influences on the built environment.

**Prerequisite:** Graduate standing.

**Schedule Type:** Studio

**Contact Hours:** 3-6 other

**Grade Mode:** Standard Letter

**ARCH 60114 GRADUATE DESIGN SYSTEMS STUDIO 3-6 Credit Hours**

Studio investigation of comprehensive design concerns, including the integration of building systems and implementation of sustainable strategies.

**Prerequisite:** Graduate standing.

**Schedule Type:** Studio

**Contact Hours:** 3-6 other

**Grade Mode:** Standard Letter

**ARCH 60150 PROJECT PROGRAMMING 2-3 Credit Hours**

Study and discussion of the notion of program in architecture and the principles of project programming. Case study analysis and preparation of a comprehensive program for an architectural project.

**Prerequisite:** ARCH 60101 and ARCH 60301; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 2-3 lecture

**Grade Mode:** Standard Letter

**ARCH 60211 GRADUATE GLOBAL HISTORY OF ARCHITECTURE I 3 Credit Hours**

Global history of architecture from Neolithic times through the 16th Century.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ARCH 60212 GRADUATE GLOBAL HISTORY OF ARCHITECTURE II 3 Credit Hours**

Global history of architecture from the 17th century to the early 21st century.

**Prerequisite:** ARCH 60211; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ARCH 60301 THEORIES OF ARCHITECTURE 1-3 Credit Hours**

(Repeatable for maximum 3 credit hours) In-depth analysis and discussion of contemporary architectural theories. Critical evaluation of major authors and architectural projects.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 1-3 lecture

**Grade Mode:** Standard Letter

**ARCH 60601 TOOLS OF REPRESENTATION 3 Credit Hours**

Introduction to the software used in the digital environment for modeling and representing architectural schemes. Course covers software interface, x,y,z coordinates and navigation, Nurbs modeling and mesh modeling. Enables students to design in three-dimension and represent massing studies, building details and develop architectural elements and site context.

**Prerequisite:** Graduate standing.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter



**ARCH 60602 TOOLS OF FABRICATION 3 Credit Hours**

Course covers advanced three-dimensional modeling tools and the different methods for outputting digital models into the physical environment. Includes three-dimension printing, laser cutting, CNC milling and vacuum forming.

**Prerequisite:** Graduate standing.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**ARCH 60603 TOOLS OF SIMULATION 3 Credit Hours**

Course covers two-dimensional and three-dimensional simulation platforms and the theory behind the tools to generate and simulate architectural ideas and environments. Animation techniques and robotic integration operate as the bridge between the digital and the physical environment.

**Prerequisite:** Graduate standing.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**ARCH 60604 TOOLS OF CODING 3 Credit Hours**

Course covers visual parametric software and coding languages to generate and develop architectural ideas. Integrates the tools and theory of coding and parametric software and their evolution in the architecture field.

**Prerequisite:** Graduate standing.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**ARCH 60922 METHODS OF INQUIRY IN ARCHITECTURAL STUDIES 2 Credit Hours**

(Cross-listed with AED 60922 and LARC 60922) Provides a comprehensive coverage of architectural inquiry techniques, including qualitative and quantitative research methods and critical-thinking skills to help students better conduct and understand research.

**Prerequisite:** ARCH 60101 and ARCH 60301; and graduate standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**ARCH 65001 PROFESSIONAL PRACTICE: REAL ESTATE AND DEVELOPMENT 2-4 Credit Hours**

Introduction to the economic, social, ethical and legal impact on/ of development projects in both the public and the private sectors. Computer applications and case-studies analysis are required.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 2-4 lecture

**Grade Mode:** Standard Letter

**ARCH 65002 PROFESSIONAL PRACTICE: CONTRACT AND PLANNING LAW 2 Credit Hours**

Course surveys laws relating to the practice of architecture and to dispute resolution, with emphasis on contract laws contrasted with laws of negligence and the standard of care in the profession. The planning law component surveys land use control mechanisms as seen through zoning, variances and practical applications.

**Prerequisite:** Architecture major and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**ARCH 65003 PROFESSIONAL PRACTICE: LEADERSHIP, ETHICS AND OFFICE MANAGEMENT 2-3 Credit Hours**

Course discusses issues of professional leadership and examines architectural office structures. Management approaches, professional registration and practice, use of consulting engineers and financial management of an office in the context of the profession as business.

**Prerequisite:** ARCH 65002; and Architecture major; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 2-3 lecture

**Grade Mode:** Standard Letter

**ARCH 66199 THESIS I 2-6 Credit Hours**

(Repeatable for credit) Thesis students must register for a total of 6 hours.

**Prerequisite:** Graduate standing.

**Schedule Type:** Masters Thesis

**Contact Hours:** 2-6 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**ARCH 66299 THESIS II 2 Credit Hours**

(Repeatable for credit) Following completion of 6 credit hours of Thesis I all graduate students must continuously register for Thesis II for all subsequent academic terms (including summer) until all degree requirements are met.

**Prerequisite:** 6 credit hours of ARCH 66199; graduate standing.

**Schedule Type:** Masters Thesis

**Contact Hours:** 2 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**ARCH 66892 PRACTICUM 1-3 Credit Hours**

(Repeatable for credit) Practicum in the field.

**Prerequisite:** Special approval.

**Schedule Type:** Practical Experience

**Contact Hours:** 1-3 other

**Grade Mode:** Standard Letter

**ARCH 66991 SEMINAR: VARIABLE TOPIC 1-4 Credit Hours**

(Repeatable for credit) Seminar on a variable topic per course offering.

**Prerequisite:** Graduate standing.

**Schedule Type:** Seminar

**Contact Hours:** 1-4 other

**Grade Mode:** Standard Letter

**ARCH 66992 FIELD STUDY 1-3 Credit Hours**

(Repeatable for credit) Field study in architecture.

**Prerequisite:** Graduate standing.

**Schedule Type:** Field Experience

**Contact Hours:** 1-3 other

**Grade Mode:** Standard Letter-IP

**ARCH 66993 WORKSHOP: VARIABLE TOPIC 1-3 Credit Hours**

(Repeatable for credit) Variable topic workshop in architecture.

**Prerequisite:** Graduate standing.

**Schedule Type:** Workshop

**Contact Hours:** 1-3 other

**Grade Mode:** Satisfactory/Unsatisfactory

**ARCH 66995 SPECIAL TOPICS IN ARCHITECTURE 1-4 Credit Hours**

(Repeatable for credit) Special topics in architecture.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 1-4 lecture

**Grade Mode:** Standard Letter

**ARCH 66996 INDIVIDUAL INVESTIGATION 1-3 Credit Hours**

(Repeatable for credit) Individual investigation in architecture.

**Prerequisite:** Graduate standing.

**Schedule Type:** Individual Investigation

**Contact Hours:** 1-3 other

**Grade Mode:** Standard Letter-IP

**ARCH 66998 RESEARCH 2-6 Credit Hours**

(Repeatable for credit) Research in architecture.

**Prerequisite:** Graduate standing.

**Schedule Type:** Research

**Contact Hours:** 2-6 other

**Grade Mode:** Standard Letter

**ARCH 67510 SUSTAINABLE BUILDING CONSTRUCTION I 3 Credit Hours**

First course of a two-course sequence. Provides an in-depth survey of design, pre- and post-construction activities pertinent to green building and sustainable design of the built environment. Reviews fundamental concepts and principles of sustainable building design and construction with special emphasis on construction site issues. Provides a comprehensive review of impact of site on construction and building design on the site and its resources. Focus is on understanding the role building design and construction play on resources efficiency and minimizing the impact of construction activities on the environment.

**Prerequisite:** ENGR 67000; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ARCH 67511 SUSTAINABLE BUILDING CONSTRUCTION II 3 Credit Hours**

Second course of a two-course sequence. Provides an in-depth survey of design, pre- and post-construction activities pertinent to green building and sustainable design of the built environment. Reviews fundamental concepts and principles of sustainable building design and construction with special emphasis on building systems. Provides a comprehensive review of impact of building component, materials and systems on design and construction of High-performance buildings. Focus is on understanding the role building design and construction play on resources efficiency and minimizing the impact of construction activities on the environment.

**Prerequisite:** ARCH 67510; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

## Architectural Studies (ARCS)

**ARCS 10121 REPRESENTATION OF DESIGN I 3 Credit Hours**

A survey of the techniques and assumptions of basic architectural design concepts and representation of the built environment through analytical and synthetic exercises that introduce fundamental design skills. In order to integrate students into the college and the field, the exercises are supplemented by readings in contemporary visual culture.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ARCS 10122 REPRESENTATION OF DESIGN II 3 Credit Hours**

Continuation of ARCS 10121 with an emphasis on 3-D thinking and representation, critical skills and the role of images in architectural culture and society. The course also introduces the wider application of design principles in graphic design, digital media and the visualization of information.

**Prerequisite:** ARCS 10121 or ARCH 10101.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ARCS 20121 STUDIO FOR ARCHITECTURAL STUDIES 4 Credit Hours**

Course exposes students to the distinct design processes, final products, and interconnectedness of various allied design disciplines including (but not limited to) graphic design, interior design, landscape architecture, urban design, industrial design, architecture and historic preservation.

**Prerequisite:** AED 10102; and Architectural Studies major.

**Schedule Type:** Studio

**Contact Hours:** 8 other

**Grade Mode:** Standard Letter

**ARCS 20122 STUDIO FOR ARCHITECTURAL STUDIES II 4 Credit Hours**

Studio allows students to further develop their design skills in relation to a theme or shared research topic that crosses the disciplinary boundaries of architecture and challenges conventional ideas of the role design can play in developing knowledge.

**Prerequisite:** ARCS 20121 or ARCH 20101.

**Schedule Type:** Studio

**Contact Hours:** 4 other

**Grade Mode:** Standard Letter

**ARCS 30123 MATERIALS AND PROCESS OF MAKING 3 Credit Hours**

Seeks to introduce and foster an ease of mobility through various digital design environments utilizing familiar techniques of design production (i.e. drawing, modeling, rendering, etc.). Students engage in digital modes of production that will enable the testing of material, spatial, and tectonic performance through scalar prototyping.

**Prerequisite:** AED 10102; or special approval for students who have completed equivalent design foundations studios in areas such as Fashion Design, Visual Communications Design or Studio Art.

**Schedule Type:** Lecture, Studio

**Contact Hours:** 1 lecture, 4 other

**Grade Mode:** Standard Letter

**ARCS 30124 METHODS AND THEORIES OF REPRESENTATION 3 Credit Hours**

Seeks to examine traditional and contemporary methods of architectural representation as generative tools that mediate between individual idea and constructed environment.

**Prerequisite:** AED 10102; or special approval for students who have completed equivalent design foundations studios in areas such as Fashion Design, Visual Communications Design or Studio Art.

**Schedule Type:** Lecture, Studio

**Contact Hours:** 1 lecture, 4 other

**Grade Mode:** Standard Letter

**ARCS 30321 STRUCTURAL TYPOLOGY 3 Credit Hours**

Course provides an intuitive introduction to architectural structures that focuses on the historical development of structural types, structure as organization, the structural properties of materials, the physical form-finding design process and scientific method through lab exercises and design projects.

**Prerequisite:** AED 10102 or ARCH 10012.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ARCS 30421 ENVIRONMENTAL IMPERATIVES 3 Credit Hours**

Course introduces students to various viewpoints on sustainable built environments with emphasis on the ethical, ecological, social, political, economic, and technical implications. Engages students in debates on theoretical and practical positions on sustainability, and the organizations that support sustainable practices in the building industry.

**Prerequisite:** AED 10102 or ARCH 10012 or Sustainability Minor.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ARCS 40022 URBAN DESIGN DISCOURSE (ELR) 3 Credit Hours**

Course explores the interconnections among making space, image creation and inhabiting the city; engages students in visual and textual documentation of urban life and phenomena. Course presents history, theory and practices of documentation in conjunction with investigation of, and frequent visits to, Cleveland sites as the basis for student projects.

**Prerequisite:** ARCH 10012; and junior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Experiential Learning Requirement

**ARCS 40114 THEORY AND CRITICISM IN ARCHITECTURAL MEDIA (WIC) 3 Credit Hours**

Aimed at investigating the increasingly intertwined issues that link contemporary architectural theory and criticism with the world of media.

**Prerequisite:** ARCH 10012; and junior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Writing Intensive Course

## Construction Management (CMGT)

**CMGT 10001 INTRODUCTION TO CONSTRUCTION MANAGEMENT 3 Credit Hours**

Serves to introduce the basic terms, concepts, procedures and current trends in the construction industry.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CMGT 11044 CONSTRUCTION SAFETY 3 Credit Hours**

The theories and principles of construction safety and health applied to real-world setting. Upon completion of course materials and required attendance hours, students receive their OSHA 30 certification.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CMGT 11071 CONSTRUCTION MATERIALS AND METHODS I 3 Credit Hours**

An introduction to principles of building construction, including preparation for the structures and environmental control sequences. Includes a more detailed and systematic look at wood light-frame construction.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CMGT 21071 CONSTRUCTION MATERIALS AND METHODS II 3 Credit Hours**

Ties together steel and concrete structural systems and the integration of building service systems, with a focus on the construction and detailing of building enclosure systems.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CMGT 22200 CONSTRUCTION DOCUMENT READING 3 Credit Hours**

The reading and understanding of the drawings that are used to communicate information about commercial and residential buildings.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CMGT 25000 PRINCIPLES OF LEED 1 Credit Hour**

Review of the green building rating system Leadership in Energy and Environmental Design (LEED) as it applies to the construction industry. Focus on preparation for the LEED Green Associate exam.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 1 lecture

**Grade Mode:** Standard Letter

**CMGT 31015 CONSTRUCTION TECHNOLOGY 3 Credit Hours**

Course provides basic concepts and practices of the construction industry, including estimating, materials, tools, techniques and production of residential construction.

**Prerequisite:** None.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 1 lecture, 4 lab

**Grade Mode:** Standard Letter

**CMGT 31023 CONSTRUCTION SURVEYING 3 Credit Hours**

The study of surveying, including fieldwork, using state-of-the-art equipment and its relationship to the construction documents.

**Prerequisite:** CMGT 22200.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 2 lecture, 2 lab

**Grade Mode:** Standard Letter

**Attributes:** TAG Engineering Technology

**CMGT 31033 MECHANICAL SYSTEMS 3 Credit Hours**

An overview of mechanical systems in commercial and residential buildings.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CMGT 31040 ELECTRICAL SYSTEMS FOR CONSTRUCTION MANAGERS 3 Credit Hours**

An overview of electrical systems in commercial and residential buildings.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CMGT 31044 ADVANCED CONSTRUCTION SAFETY AND MANAGEMENT 3 Credit Hours**

Course enables students to be able to properly manage the construction safety techniques and practices they learned in CMGT 11044. Course provides the opportunity for students to learn how to utilize management skills to lead and implement an effective construction safety program.

**Prerequisite:** CMGT 11044.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CMGT 31045 CONSTRUCTION RISK MANAGEMENT 3 Credit Hours**

Course provides an in-depth study of various risks associated with construction projects, and how those risks affect the construction industry. Topics of discussion include analytical and management techniques used to identify, analyze and respond to risks. Students review actual legal case studies and develop written opinion papers.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CMGT 31046 INTRODUCTION TO INSURANCE AND WORKER'S COMPENSATION 3 Credit Hours**

Introduction to construction-related insurance products and worker's compensation practices and policies. Course provides the understanding of the legal, management and costing implications associated with each of these, both prior to and during a construction project.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CMGT 32001 PROPOSAL DEVELOPMENT AND ANALYSIS 3 Credit Hours**

(Repeatable for credit) Students create and combine project management, safety and quality control plans to prepare quantity takeoffs and schedule for a construction project, in the form of a construction proposal and presentation. Further analysis is done on general construction proposals.

**Prerequisite:** CMGT 10001; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CMGT 33092 CONSTRUCTION MANAGEMENT INTERNSHIP (ELR) (WIC) 1-3 Credit Hours**

(Repeatable for credit) Supervised work-study experience in an approved construction-related business that is relative to a student's program. The course can be taken for 3 credit hours in the semester for full time employment (450+ total hours) or 2 credit hour for part-time employment (300-450 total hours). Repeatable to maximum of 6 credits. To repeat the course for credit, the student must assume a different position or responsibilities if employed by the same organization, or the student must be employed by a different company.

**Prerequisite:** Minimum 2.250 overall GPA; and Construction Management major or minor; and sophomore standing.

**Schedule Type:** Practical Experience

**Contact Hours:** 10-30 other

**Grade Mode:** Standard Letter

**Attributes:** Experiential Learning Requirement, Writing Intensive Course

**CMGT 37295 SPECIAL TOPICS IN CONSTRUCTION MANAGEMENT 1-3 Credit Hours**

Analysis of significant and current issues in construction management not covered in regular courses. Offered when opportunities and resources permit; the topic is announced when the course is scheduled.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 1-3 lecture

**Grade Mode:** Standard Letter

**CMGT 41040 CONSTRUCTION ESTIMATING I 3 Credit Hours**

(Slashed with CMGT 51040) Introduction to estimating and the quantity takeoff process needed to complete accurate estimates for all types of construction projects. Students must have the ability to read and understand construction drawings.

**Prerequisite:** CMGT 22200.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CMGT 41041 CONSTRUCTION ESTIMATING II 3 Credit Hours**

(Slashed with CMGT 51041) Course covers putting costs to the project, finalizing the bid, incorporating the estimate into the schedule, buying out the project, bidding ethics and using computer spreadsheets, including Excel, to automate estimating functions.

**Prerequisite:** CMGT 41040.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CMGT 41047 FUNDAMENTALS OF INDUSTRIAL AND CONSTRUCTION HYGIENE 3 Credit Hours**

Focuses on the environmental, community and occupational health issues within facilities and construction sites. Course provides the opportunity for students to recognize, evaluate and control occupational hazards.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CMGT 41048 OCCUPATIONAL SAFETY AND HEALTH LAW 3 Credit Hours**

Course focuses on general legal doctrine and practical considerations of the Occupational Safety and Health Act (OSHA). Covers the scope of the act, duties under the act, enforcement, adjudication and OSHA-related litigation.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CMGT 42030 BUILDING INFORMATION MODELING FOR CONSTRUCTION MANAGERS 3 Credit Hours**

Course reinforces and investigate the usage of building information modeling (BIM) as a construction management tool. Students create BIM models, with scheduling and cost loading, to understand how BIM usage is maximized within the built environment. Student utilizes software applications to create the BIM model and integrate the construction schedule and estimate.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CMGT 42050 INTERNATIONAL CONSTRUCTION MANAGEMENT 3 Credit Hours**

Course focuses on the culture and management of international design and construction operations, with an emphasis on business development, financing, planning, contracts and negotiations, special construction techniques in adverse environments, procurement and logistics. A short-term study abroad trip is included in the course.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CMGT 42051 ALTERNATIVE ENERGY SYSTEMS IN BUILDING DESIGN 3 Credit Hours**

Course focuses on the construction application of alternative mechanical, electrical and plumbing systems in the built environment. Emphasis on energy efficient systems, energy conservation, cost benefits, building issues and construction techniques to develop these systems.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CMGT 42052 MECHANICAL AND ELECTRICAL ESTIMATING 3 Credit Hours**

Course focuses on estimating mechanical, electrical, plumbing and fire protection systems for the built environment. Covers detailed estimating practices of mechanical systems, including indirect costs, direct costs, bidding strategies, piping, pumps, plumbing systems, fire protection, HVAC, ductwork, insulation, automatic temperature controls, supports and manpower.

**Prerequisite:** CMGT 31033 and CMGT 31040.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CMGT 42053 SUBCONTRACTOR LEADERSHIP AND PRACTICES 3 Credit Hours**

Course focuses on the leadership, operations and overall management of construction subcontractor companies. Emphasis on how subcontractor leaders can avoid mistakes and manage risk to make their scopes of work run more intelligently, effectively and efficiently.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CMGT 42054 CIVIL ESTIMATING 3 Credit Hours**

Course provides an in-depth review and application of civil construction estimating techniques and technology associated with civil estimating practices. Course covers site work, site utilities, substructures and heavy equipment estimating.

**Prerequisite:** CMGT 10001 and CMGT 41040.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CMGT 42055 CIVIL UTILITY SYSTEMS 3 Credit Hours**

Course discusses the installation, construction, renewal, estimating and management of underground utility systems. Maintains an emphasis on minimal soil and environmental disturbance.

**Prerequisite:** CMGT 10001.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CMGT 42056 SOILS AND MATERIALS 3 Credit Hours**

Building on previous knowledge of construction, students explore the nature of soils and how they can influence construction operations, soil safety, soils within the construction contract, soil classifications, soil strengths and specification sections tied to soils and materials.

**Prerequisite:** CMGT 10001.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CMGT 42105 CONSTRUCTION CONTRACTS AND LAW 3 Credit Hours**

(Slashed with CMGT 52105) Course covers the fundamentals of construction contracts and law; the impact of information technology on contracts and contracting; and the effect of contracts and law on the management, administration and costs of construction work.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CMGT 42107 CONSTRUCTION SCHEDULING 3 Credit Hours**

(Slashed with CMGT 52107) The traditional theory of planning, scheduling and controlling construction projects. Current industry standard computer applications for scheduling are utilized.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter



**CMGT 42110 CONSTRUCTION MANAGEMENT CAPSTONE 3 Credit Hours**

The application of all previous construction management courses and experiences to ensure all major learning objectives have been obtained, and that these learning objectives can be applied to performance similar to industry practices.

**Prerequisite:** Senior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CMGT 43096 INDIVIDUAL INVESTIGATION IN CONSTRUCTION MANAGEMENT 1-3 Credit Hours**

(Repeatable for credit) Independent study carried out by a student under the supervision of a faculty member. Subject content, objectives, assignments and evaluation methods may vary.

**Prerequisite:** Junior standing; and special approval.

**Schedule Type:** Individual Investigation

**Contact Hours:** 3-9 other

**Grade Mode:** Standard Letter

**CMGT 51040 CONSTRUCTION ESTIMATING I 3 Credit Hours**

(Slashed with CMGT 51040) Introduction to estimating and the quantity takeoff process needed to complete accurate estimates for all types of construction projects. Students must have the ability to read and understand construction drawings.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CMGT 51041 ADVANCED ESTIMATING 3 Credit Hours**

(Slashed with CMGT 41041) Course covers putting costs to the project, finalizing the bid, incorporating the estimate into the schedule, buying out the project, bidding ethics and using computer spreadsheets, including Excel, to automate estimating functions.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CMGT 52105 CONSTRUCTION CONTRACTS AND LAW 3 Credit Hours**

(Slashed with CMGT 42105) Course covers the fundamentals of construction contracts and law; the impact of information technology on contracts and contracting; and the effect of contracts and law on the management, administration and costs of construction work.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CMGT 52107 CONSTRUCTION SCHEDULING 3 Credit Hours**

(Slashed with CMGT 42107) The traditional theory of planning, scheduling and controlling construction projects. Current industry standard computer applications for scheduling are utilized.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CMGT 52110 ADVANCED CONSTRUCTION MANAGEMENT 3 Credit Hours**

A comprehensive application of construction management principles and practices to various situations and projects according to construction industry methods and performance standards.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CMGT 62030 BUILDING INFORMATION MODELING FOR CONSTRUCTION MANAGEMENT 3 Credit Hours**

Course reinforces and investigate the usage of building information modeling (BIM) as a construction management tool. Students create BIM models, with scheduling and cost loading, to understand how BIM usage is maximized within the built environment. Student utilizes software applications to create the BIM model and integrate the construction schedule and estimate. Students also perform research on the application of BIM in the industry.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CMGT 62040 CONSTRUCTION METHODS IMPROVEMENTS 3 Credit Hours**

A focused study of the philosophy and principles of quality management as applied to the construction industry. Course presents a project-based approach to the principles and practices of Total Quality Management (TQM) in construction projects and the application of TQM and other quality measures during different phases of the construction process.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CMGT 62050 INTERNATIONAL CONSTRUCTION MANAGEMENT 3 Credit Hours**

Topics include operating and sustaining an international business or business presence, the global market, project funding, case studies and best practices. Course includes project-specific case studies.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CMGT 62060 NEGOTIATION IN THE BUILT ENVIRONMENT 3 Credit Hours**

Examination of negotiation theories, strategies and tactics as applied to transactions in the construction and technological environments. Establishment of win-win environment in dealing with the project parties by adopting creative means to solve problems and resolve disputes. Practice through negotiation case studies, scenarios and role playing.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CMGT 62070 ENGINEERING ECONOMICS AND STRATEGIC DECISION MAKING 3 Credit Hours**

Application of engineering economic principles related to evaluating alternative solutions, replacement decisions and retention decisions. Includes decision and risk analysis, sensitivity analysis, expected value, benefit cost analysis, public sector economics, economic cycle, operation research, strategic management and entrepreneurship in the technological environment.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CMGT 62080 ADVANCED CONSTRUCTION RISK MANAGEMENT 3 Credit Hours**

This course provides an in-depth study of various risks associated with construction projects, and how those risks affect the construction industry. This course prepares leaders to make decisions that affect individual projects and the organization as a whole. Topics of discussion include analytical and management techniques used to identify, analyze, and respond to construction risks. Students review case studies, texts, and use instructor examples of how to identify and mitigate risks.

**Prerequisite:** Graduate Standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CMGT 65099 MASTER PROJECT IN CONSTRUCTION MANAGEMENT 3 Credit Hours**

This course is the application of all previous construction management courses and experiences to ensure all major learning objectives have been obtained, and that these learning objectives can be applied to performance similar to industry best practices.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Project or Capstone

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CMGT 67295 SPECIAL TOPICS IN CONSTRUCTION MANAGEMENT 1-4 Credit Hours**

Analysis of significant and current issues in construction management not covered in regular courses. Offered when opportunities and resources permit; the topic is announced when the course is scheduled.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 1-4 lecture

**Grade Mode:** Standard Letter

**CMGT 67296 INDIVIDUAL INVESTIGATION IN CONSTRUCTION MANAGEMENT 1-3 Credit Hours**

Independent study carried out by a student under the supervision of a faculty member. Subject content, objectives, assignments and evaluation methods may vary.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Individual Investigation

**Contact Hours:** 3-9 other

**Grade Mode:** Standard Letter-IP

**CMGT 67320 APPLIED SUSTAINABILITY IN CONSTRUCTION MANAGEMENT 3 Credit Hours**

Investigation of strategies and methods used by construction managers and others to assist in developing sustainable built environments. Course takes a close look at standards for environmentally sustainable construction and at the application of best management practices for construction activities. Focus is on LEED certification, international standards on environmental management systems and other established criteria, guidelines, standards and tools associated with green building. Provides an in-depth discussion and practical application of LEED assessment, guidelines and standards for various building sectors. Includes a major individual design project/case study involving research in green construction and design on a particular construction project, along with the application of LEED guidelines, assessment and methods to the project.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

## Healthcare Design (HCD)

**HCD 60000 HEALTHCARE DESIGN STUDIO 6 Credit Hours**

Course integrates and applies expert knowledge in healthcare design. Projects demonstrate solutions through design, case study analysis and in collaboration with industry and healthcare partners.

**Prerequisite:** Graduate standing.

**Schedule Type:** Studio

**Contact Hours:** 6 other

**Grade Mode:** Standard Letter

**HCD 60092 PRACTICAL EXPERIENCE 1 Credit Hour**

Course offers students three options: internship, observation or research. Tracks allow for first-hand experience with a healthcare facility design project or environment; and to develop professional communication skills.

**Prerequisite:** Graduate standing.

**Schedule Type:** Practical Experience

**Contact Hours:** 1 other

**Grade Mode:** Standard Letter

**HCD 60100 HEALTHCARE SYSTEMS WORKSHOP 3 Credit Hours**

Course integrates the knowledge-base gained in other core courses into design evaluations and solutions, helping students apply what they have learned in practice. Focus is on learning about other healthcare systems, design trends and research applications. Students deliver a design project and/or a report of the field trip.

**Prerequisite:** Graduate standing.

**Schedule Type:** Workshop

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**HCD 60101 HEALTHCARE DESIGN WORKSHOP: CULTURE AND ETHICS 3 Credit Hours**

Course integrates the knowledgebase gained in other courses into design evaluations and solutions, helping students apply what they have learned in practice. Focus is on a small design project.

**Prerequisite:** Graduate standing.

**Schedule Type:** Workshop

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**HCD 60198 MASTER'S PROJECT IN HEALTHCARE DESIGN I 3 Credit Hours**

Oriented to the individual student, focusing on research surrounding a specific aspect health care facility design. The student then defines the design issue and establishes the parameters around which their masters design project is executed.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Master's Project, Research

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**HCD 60298 MASTER'S PROJECT IN HEALTHCARE DESIGN II 6 Credit Hours**

Focused on an individual student's defined master's project topic and overseen by a faculty advisor and committee members. Concludes in the design of the specific issue detailed by the student in HCD 60198.

**Prerequisite:** HCD 60198; and graduate standing; and special approval.

**Schedule Type:** Master's Project

**Contact Hours:** 6 other

**Grade Mode:** Standard Letter

**HCD 63001 EVIDENCE-BASED DESIGN IN HEALTHCARE 2 Credit Hours**

Course offers the knowledge and skills required for applied research, and the use of credible data in the design decision-making process. Encompasses the evidence-based design (EBD) process, and how it applies in projects.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**HCD 63002 HEALTHCARE FACILITIES 2 Credit Hours**

An investigation of the history and types of healthcare facilities, design guidelines and basic planning and programming requirements for their planning and design.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**HCD 63003 ENVIRONMENTAL SYSTEMS AND MATERIALS IN HEALTHCARE 2 Credit Hours**

An investigation of architectural finishes, furnishings, mechanical systems and lighting in healthcare settings.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**HCD 63004 ENVIRONMENTS OF CARE AND PATIENT POPULATIONS 2 Credit Hours**

Course explores the functional, operational and person psychosocial requirements for different patient populations. Focus is on how design can respond to specific patient population needs.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**HCD 63005 PATIENT SAFETY AND SYSTEMS THINKING 2 Credit Hours**

Course introduces systems engineering initiative for patient safety as a major interdisciplinary approach known as systems thinking. Covers the basics of human factors in healthcare and the interactive relationship between humans and the environment; including the factors contributing to patient safety in healthcare settings, and the role environments play in patient safety.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

## Interior Design (ID)

**ID 14011 INTRODUCTION TO INTERIOR DESIGN 1 Credit Hour**

Introduction to a broad range of interior design issues including environmental, ecological, aesthetic, social, global, spatial, ethical and technical, and addresses the needs of the human being related to interior design practice. Students acquire knowledge and understanding of significant aspects in interior design and diverse options within the profession, which helps them to identify their career paths in interior design.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 1 lecture

**Grade Mode:** Standard Letter

**ID 14012 DESIGN AND HUMAN BEHAVIOR 3 Credit Hours**

Introduces the concepts of human factors, the way in which humans relate to the physical environment within cultural milieus, and investigates applications of these factors in the design of interiors with consideration of specialized populations.

**Prerequisite:** ID 14011 with a minimum C grade.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ID 14501 STUDIO PROBLEMS IN INTERIOR DESIGN I 4 Credit Hours**

Studio problems in interior design is a course for the beginning student whose interest is in interior space design.

**Prerequisite:** None.

**Schedule Type:** Lecture, Studio

**Contact Hours:** 2 lecture, 2 other

**Grade Mode:** Standard Letter

**ID 14512 INTERIOR DESIGN GRAPHICS I 3 Credit Hours**

Studio based course introducing concepts of architectural drawing and sketching techniques including plan, elevation, section and perspective.

**Prerequisite:** Interior design major.

**Schedule Type:** Studio

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**ID 24001 INTERIOR DESIGN STUDIO I-SPACE PLANNING AND HUMAN FACTORS 3 Credit Hours**

Focuses on space planning and the application of human factors to interior design solutions. Based on knowledge received in ID 14012 Design and Human Behavior, the following areas are incorporated into the studio projects: Americans with Disabilities Act; data gathering; space analysis and synthesis.

**Prerequisite:** ID 14012 with a minimum C grade.

**Schedule Type:** Studio

**Contact Hours:** 6 other

**Grade Mode:** Standard Letter

**ID 24002 INTERIOR DESIGN STUDIO II-DETAILING AND FABRICATION 3 Credit Hours**

Focus is the understanding of detailing and fabrication in interior design that leads students to have a balanced ability between the creative and the technical abilities in design projects. Studies of architectural and interior design detailing, custom cabinetry, casework, joinery, millwork, fabrication, and FF&E are blended into each of the projects to instill a proficiency in construction execution. Usage of a 3D printer and laser cutter is introduced along with design projects.

**Prerequisite:** ID 24001 with a minimum C grade.

**Schedule Type:** Studio

**Contact Hours:** 6 other

**Grade Mode:** Standard Letter

**ID 24011 METHODS AND MATERIALS I: BUILDING SYSTEMS 3 Credit Hours**

Introduction to the principles of building construction and systems. Covers topics related to structural systems in buildings which include: floor, wall and roof systems; environmental comfort and sustainability; safety and security; HVAC; electrical; building control; and conveying systems, that influence and interact with interior design. Designed to advance the student to a higher level of understanding and competence in building technology for interior design.

**Prerequisite:** ID 14012 with a minimum C grade.

**Corequisite:** ID 24001.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ID 24012 CODES AND STANDARDS FOR INTERIOR DESIGN 3 Credit Hours**

Presents codes, standards and regulations that pertain to the materials and finishes of building interiors, their proper methods of application, installation and maintenance.

**Prerequisite:** ID 24001 with a minimum C grade.

**Corequisite:** ID 24002.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ID 24013 HISTORY OF INTERIORS I-ANCIENT TO 15TH CENTURY 3 Credit Hours**

Provides a thorough background of the major design periods and traditions of global civilizations from ancient times to the 15th century including the design of furnishings, architecture, interiors, textiles, and the decorative and fine arts. The influences of culture, geography, technology, religion and politics on design are investigated.

**Prerequisite:** ID 24001 with a minimum C grade.

**Corequisite:** ID 24002.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ID 24021 INTEGRATED DIGITAL APPLICATIONS I 3 Credit Hours**

Prepares students for an ongoing exploration and integration of architectural software to assist with design problems within the interior design practice. Course work covers basic fundamentals of popular architectural programs and enables students to continuously build upon acquired knowledge and skills.

**Prerequisite:** AED 10102 with a minimum C grade.

**Corequisite:** ID 24001.

**Schedule Type:** Laboratory

**Contact Hours:** 6 lab

**Grade Mode:** Standard Letter

**ID 24022 3D MODELING AND RENDERING 2 Credit Hours**

Introduces fundamental concepts, principles and practices of 3D digital modeling and rendering techniques applicable to design practice. Thorough instruction is given in the production of geometric surfaces and forms using surface and solid modeling tools, texturing, and lighting. Tutorial-based with supporting demonstrations and lectures on the various commands and approaches to interior design and architectural modeling and rendering.

**Prerequisite:** ID 24001 with a minimum C grade.

**Corequisite:** ID 24002.

**Schedule Type:** Laboratory

**Contact Hours:** 4 lab

**Grade Mode:** Standard Letter

**ID 24023 FURNITURE DESIGN I-WOOD 3 Credit Hours**

Provides experience in design through the fundamentals of hand and machine processes in wood furniture design and fabrication. Projects are designed, planned and constructed by the student according to curricular needs and interests. Students must be admitted to the second year of the interior design program or have approval.

**Prerequisite:** Interior design major; and special approval.

**Pre/corequisite:** ID 24001.

**Schedule Type:** Laboratory, Lecture

**Contact Hours:** 1 lecture, 5 lab

**Grade Mode:** Standard Letter

**ID 24502 STUDIO PROBLEMS IN INTERIOR DESIGN II 4 Credit Hours**

Special problems dealing with design of residential and related spaces, traffic flow, placement of furnishings, emphasis on color and textural experience and lighting of space. Practical, integrated approach.

**Prerequisite:** ID 14501; and interior design major.

**Schedule Type:** Lecture, Studio

**Contact Hours:** 2 lecture, 2 other

**Grade Mode:** Standard Letter

**ID 24510 TEXTILES IN THE BUILT ENVIRONMENT 2 Credit Hours**

A concise background in textile science is established with a hands-on approach to the evaluation, selection and application of textiles by interior design professionals and architects.

**Prerequisite:** Interior design major.

**Corequisite:** ID 34503.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**ID 24522 INTERIOR DESIGN GRAPHICS II 3 Credit Hours**

Studio based course continuation of ID 14512. Exploration of color, media and graphic representation of interior design materials and environments.

**Prerequisite:** ID 14501 and ID 14512 and ID 24502.

**Schedule Type:** Studio

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**ID 34001 INTERIOR DESIGN STUDIO III-LARGE SCALE PLANNING AND DOCUMENTATION 4 Credit Hours**

Introduction to large-scale commercial space design through studio projects and lectures with an emphasis on space planning, office systems furniture planning, and development of workstation prototype development.

**Prerequisite:** ID 24002 with a minimum C grade.

**Schedule Type:** Studio

**Contact Hours:** 8 other

**Grade Mode:** Standard Letter

**ID 34002 INTERIOR DESIGN STUDIO IV-GLOBAL AND HISTORICAL CONTEXT 4 Credit Hours**

Focus is on projects involving the historical design traditions of the United States and various global cultures. Historical approaches to interiors include: preservation; restoration; recreation of historic interiors; and the reuse of historic structures for new purposes. The use of metric dimensioning is a component of one project.

**Prerequisite:** ID 34001 with a minimum C grade.

**Corequisite:** ID 44014.

**Schedule Type:** Studio

**Contact Hours:** 8 other

**Grade Mode:** Standard Letter

**ID 34010 DESIGN THEORY AND AESTHETICS 2 Credit Hours**

This survey course discusses theories related to interior design and other design disciplines. Topics include environmental aesthetics, visual perception, psychology of design, and other multidisciplinary theories and their relationship to humans in places and time.

**Prerequisite:** Interior design major; and sophomore standing.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**ID 34011 LIGHTING FOR INTERIOR SPACES 3 Credit Hours**

Lighting for Interior Spaces is structured to provide the interior design student with the knowledge required to select, design and install the proper lighting in the interior environment. Builds from elementary information to the complex and current technology in the industry.

**Prerequisite:** ID 24002 with a minimum C grade.

**Corequisite:** ID 34001.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ID 34012 METHODS AND MATERIALS II-INTERIOR MATERIALS 3 Credit Hours**

Explores the methods and materials utilized in the design and construction of the sustainable interior environment. Presents the standards and requirements that pertain to finishes and materials; manufacture and composition of various interior materials and finishes; and proper methods of application and installation of selected materials.

**Prerequisite:** ID 24002 with a minimum C grade.

**Corequisite:** ID 34001.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ID 34013 INTERIOR DESIGN BUSINESS AND PROFESSIONAL PRACTICE 3 Credit Hours**

Undertakes a study of business and professional practices of interior designers. Topics to be covered include: opportunities within the design profession; types of business formations; legal and ethical responsibilities; business operations; and project management. Students develop a business plan; write resumes and cover letters; and develop a design services proposal.

**Prerequisite:** ID 24002 with a minimum C grade.

**Corequisite:** ID 34001.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ID 34021 LIGHTING FOR INTERIOR SPACES LABORATORY 1 Credit Hour**

Lighting for Interior Spaces Lab is a co-requisite to ID 34011 Lighting for Interior Spaces lecture. Structured for hands-on experience with calculating, specifying and testing different types of light and their application.

**Prerequisite:** ID 24002 with a minimum C grade.

**Corequisite:** ID 34011.

**Schedule Type:** Laboratory

**Contact Hours:** 2 lab

**Grade Mode:** Standard Letter

**ID 34022 METHODS AND MATERIALS II-INTERIOR MATERIALS LABORATORY 1 Credit Hour**

Provides hands-on experience in the application of selected materials for the design and construction of the sustainable interior environment. Information presented in ID 34012 Methods and Materials II - Interior Materials are applied to design scenarios.

**Prerequisite:** ID 24002 with a minimum C grade.

**Corequisite:** ID 34012.

**Schedule Type:** Laboratory

**Contact Hours:** 1 lab

**Grade Mode:** Standard Letter

**ID 34023 PERSONAL BRANDING AND IMAGE MAKING 3 Credit Hours**

Designed to provide the student with an understanding of 1) branding as a mechanism for personal and group identity; 2) the job market, versatility of the profession, and industry expectations; 3) a developed knowledge of portfolio layout, cover letter and resume writing; 4) increased sense of who they are as a designer and their future; and 5) the ability to market themselves and their work.

**Prerequisite:** ID 24002 with a minimum C grade.

**Corequisite:** ID 34001.

**Schedule Type:** Lecture

**Contact Hours:** 3 lab

**Grade Mode:** Standard Letter

**ID 34503 STUDIO PROBLEMS IN INTERIOR DESIGN III 4 Credit Hours**

Special problems concerning design of small to moderate size commercial interior space.

**Prerequisite:** ID 24502.

**Schedule Type:** Lecture, Studio

**Contact Hours:** 2 lecture, 2 other

**Grade Mode:** Standard Letter



**ID 34504 STUDIO PROBLEMS IN INTERIOR DESIGN IV 4 Credit Hours**

Introduction to large scale planning.

**Prerequisite:** ARCH 10101 and ID 34503.

**Pre/corequisite:** PHY 13001.

**Schedule Type:** Lecture, Studio

**Contact Hours:** 2 lecture, 2 other

**Grade Mode:** Standard Letter

**ID 34515 COMPUTER AIDED DESIGN FOR INTERIOR DESIGNERS 3 Credit Hours**

Introduction to application of computer drawing and drafting techniques used in interior design. Study of two dimensional and three dimensional techniques as well as symbol libraries.

**Prerequisite:** Interior design major.

**Corequisite:** ID 34503.

**Schedule Type:** Laboratory

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ID 34522 METHODS AND MATERIALS FOR INTERIOR DESIGN 3 Credit Hours**

Information regarding the manufacture, construction and application of materials used in interior design. Proper methods and installation procedures of both surface materials and furnishings required in the profession are explored.

**Prerequisite:** Interior design major.

**Corequisite:** ID 24502.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ID 41093 VARIABLE TITLE WORKSHOP IN INTERIOR DESIGN 1-4 Credit Hours**

(Repeatable for credit) Workshops dealing with variable topics related to the interior design profession. Learning experiences provided in a broad spectrum of specialties.

**Prerequisite:** Interior design major.

**Schedule Type:** Workshop

**Contact Hours:** 1-4 other

**Grade Mode:** Satisfactory/Unsatisfactory

**ID 41095 SPECIAL TOPICS IN INTERIOR DESIGN 1-4 Credit Hours**

(Repeatable for credit) Discussion of a major topic or issue within the profession of interior design. Repeat registration permitted.

**Prerequisite:** Interior design major.

**Schedule Type:** Lecture

**Contact Hours:** 1-4 lecture

**Grade Mode:** Standard Letter

**ID 41096 INDIVIDUAL INVESTIGATION IN INTERIOR DESIGN 1-3 Credit Hours**

(Repeatable for credit) Independent study of interior design and related topics under the guidance of a faculty member.

**Prerequisite:** Interior design major.

**Schedule Type:** Individual Investigation

**Contact Hours:** 1-3 other

**Grade Mode:** Standard Letter-IP

**ID 44001 INTERIOR DESIGN STUDIO V-SPECIALIZED FOCUS AND POPULATIONS 5 Credit Hours**

Structured to allow for a specialized focus on design problems that can occur based on current trends or issues that affect the built environment for varying populations. Environmental conditions and current and on-going specific design issues in the interior environment are utilized as problems for the course.

**Prerequisite:** ID 34002 with a minimum C grade.

**Schedule Type:** Studio

**Contact Hours:** 10 other

**Grade Mode:** Standard Letter

**ID 44002 INTERIOR DESIGN STUDIO VI-COMMUNITY ENGAGEMENT 5 Credit Hours**

Community engagement refers to the process by which organizations and individuals build ongoing, permanent relationships for the purpose of applying a collective vision for the benefit of a community. Structured to establish relationships and work with community organizations and leaders in formal and informal manners and partnering to create change and improve physical environments.

**Prerequisite:** ID 44001 with a minimum C grade.

**Schedule Type:** Studio

**Contact Hours:** 10 other

**Grade Mode:** Standard Letter

**ID 44011 INTEGRATED DESIGN PRACTICE AND PROJECT MANAGEMENT 2 Credit Hours**

Introduction and application of current interior design and related disciplines project management needs, methods, and techniques in order to complete a design-build project. Content is project scheduling, documentation and supervision of all members of a design-build team including interior designers, architects, construction personnel and assorted trades involved in producing a built environment.

**Prerequisite:** ID 44612 with a minimum C grade.

**Corequisite:** ID 44001.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**ID 44014 HISTORY OF INTERIORS II-16TH THROUGH 19TH CENTURY 3 Credit Hours**

Provides a thorough background of the major design periods and traditions of global civilizations from the 16th through the 19th centuries including the design of furnishings, architecture, interiors, textiles, and the decorative and fine arts. The influence of culture, geography, technology, religion and politics on design are investigated.

**Prerequisite:** ID 24013 with a minimum C grade.

**Corequisite:** ID 34002.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ID 44015 HISTORY OF INTERIORS III-20TH CENTURY TO THE PRESENT 3 Credit Hours**

Provides a thorough background of the major design periods and traditions of global civilizations from the 20th century to the present including the design of furnishings, architecture, interiors, textiles, and the decorative and fine arts. The influence of culture, geography, technology, religion and politics on design are investigated.

**Prerequisite:** ID 44014 with a minimum C grade.

**Corequisite:** ID 44001.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ID 44041 CURRENT ISSUES IN INTERIOR DESIGN 1 Credit Hour**

Structured to inform the advanced design student about issues within the design and social world and how design contributes to improving human well-being and livelihood. Focuses the student on developing an understanding that designers and creative professionals have a responsibility and are able to cause real change in the world through good design.

**Prerequisite:** ID 44001.

**Corequisite:** ID 44002.

**Schedule Type:** Lecture

**Contact Hours:** 1 lecture

**Grade Mode:** Standard Letter

**ID 44505 STUDIO PROBLEMS IN INTERIOR DESIGN V 2 Credit Hours**

Introduction to principles of historic design focusing on hands-on and on-site design techniques. For interior design majors only.

**Prerequisite:** ID 34504 and ID 44534.

**Corequisite:** ID 44535.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**ID 44506 STUDIO PROBLEMS IN INTERIOR DESIGN VI 4 Credit Hours**

Special problems concerning the design of large-scale commercial environments.

**Prerequisite:** CMGT 31015 and ID 44505.

**Corequisite:** ARCH 40501.

**Schedule Type:** Lecture, Studio

**Contact Hours:** 2 lecture, 2 other

**Grade Mode:** Standard Letter

**ID 44507 STUDIO PROBLEMS IN INTERIOR DESIGN VII 4 Credit Hours**

This course will provide the opportunity for a senior design thesis. Problems will be selected by the students and will represent their own area of interest.

**Prerequisite:** ID 44506 and ARCH 40501.

**Schedule Type:** Lecture, Studio

**Contact Hours:** 2 lecture, 2 other

**Grade Mode:** Standard Letter

**ID 44512 HISTORIC FURNISHING TEXTILES 2 Credit Hours**

(Slashed with ID 54512) Designed to acclimate students to historic textiles created primarily for use in interior architecture. Focus is on aesthetics, design and construction. A comprehensive adaptive reuse or restoration project is required.

**Prerequisite:** ID 44534 and ID 44535.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**ID 44523 INTERIOR DESIGN PROFESSIONAL PRACTICE 2 Credit Hours**

A study of the business and professional practices of interior designers.

**Prerequisite:** ID 34504.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**ID 44525 LIGHTING APPLICATION IN INTERIOR SPACES 3 Credit Hours**

Design application of lighting technology for various interior spaces. Field trips to study lighting installations.

**Prerequisite:** ID 34503.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ID 44527 STUDY TOURS 1-10 Credit Hours**

A series of study tours for in-depth, first-hand experiences of historic sites, markets, manufacturing facilities and attendance at product seminars.

**Prerequisite:** Junior or senior standing.

**Schedule Type:** Lecture

**Contact Hours:** 1-10 lecture

**Grade Mode:** Standard Letter

**ID 44534 HISTORY OF INTERIORS TO 1600 (WIC) 4 Credit Hours**

A chronological study of housing and furnishings from civilization to the 15th century.

**Prerequisite:** ID 34504; and ARTH 22006 and ARTH 22007; or ARCH 10011 and ARCH 10012; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 4 lecture

**Grade Mode:** Standard Letter

**Attributes:** Writing Intensive Course

**ID 44535 HISTORY OF INTERIORS-1600 TO PRESENT 4 Credit Hours**

A chronological study of housing and furnishings from the Renaissance to the Victorian Period-16th to 19th centuries and 20th century.

**Prerequisite:** ID 44534.

**Schedule Type:** Lecture

**Contact Hours:** 4 lecture

**Grade Mode:** Standard Letter

**ID 44592 PROFESSIONAL INTERIOR DESIGN INTERNSHIP (ELR) 1-4 Credit Hours**

(Repeatable for a maximum of 4 credit hours) Provides practical professional interior design experience by exposing the student to first-hand knowledge of the professional work environment. Students are required to prepare a portfolio and resume, and interview for the positions offered by the professional design firms locally, nationally and internationally.

**Prerequisite:** ID 34002 with a minimum C grade.

**Schedule Type:** Practical Experience

**Contact Hours:** 12-48 other

**Grade Mode:** Standard Letter

**Attributes:** Experiential Learning Requirement

**ID 44611 INTERIOR DESIGN RESEARCH AND PROGRAMMING 2 Credit Hours**

Structured to provide the student with an understanding of the research systems of inquiry related to the interior design process; the ability to demonstrate an understanding of the knowledge and tools related to the gathering of data related to the successful completion of a design project; and experience in researching, evaluating and programming of private and public spaces.

**Prerequisite:** ID 34001 with a minimum C grade.

**Corequisite:** ID 44631.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**ID 44612 INTERIOR SPECIFICATIONS AND COST ANALYSIS 3 Credit Hours**

Promotes an understanding of specifications and cost analysis of materials and furniture utilized in the design and construction of the sustainable interior environment. Informs students about format and content of the specifications that pertain to the interior contract documentation.

**Prerequisite:** ID 34001 with a minimum C grade.

**Corequisite:** ID 34002.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ID 44631 INQUIRY FOR EVIDENCE BASED DESIGN (WIC) 1 Credit Hour**

Structured to provide the student with the ability 1) to apply the research systems of inquiry related to the interior design process; 2) to demonstrate an understanding of the knowledge and tools related to the gathering of data related to the successful completion of a design project; 3) to experience the research, evaluation, and programming of private and public spaces.

**Prerequisite:** ID 34001 with a minimum C grade.

**Corequisite:** ID 44611.

**Schedule Type:** Lecture

**Contact Hours:** 1 lecture

**Grade Mode:** Standard Letter

**Attributes:** Writing Intensive Course

**ID 51093 VARIABLE TITLE WORKSHOP IN INTERIOR DESIGN 1-4 Credit Hours**

(Repeatable for credit) Workshop topics dealing with variable topics related to the interior design profession. Learning experiences are provided in a wide range of areas.

**Prerequisite:** Interior design major; and graduate standing.

**Schedule Type:** Workshop

**Contact Hours:** 1-4 other

**Grade Mode:** Satisfactory/Unsatisfactory

**ID 51095 SPECIAL TOPICS IN INTERIOR DESIGN 1-4 Credit Hours**

(Repeatable for credit) Discussion of a major topic or issue within the profession of interior design.

**Prerequisite:** Interior design major; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 1-4 lecture

**Grade Mode:** Standard Letter

**ID 51096 INDIVIDUAL INVESTIGATION IN INTERIOR DESIGN 1-3 Credit Hours**

(Repeatable for credit) Independent study of interior design and related topics under the guidance of a faculty member.

**Prerequisite:** Interior design major; and graduate standing.

**Schedule Type:** Individual Investigation

**Contact Hours:** 1-3 other

**Grade Mode:** Standard Letter-IP

**ID 54512 HISTORIC FURNISHING TEXTILES 2 Credit Hours**

(Slashed with ID 44512) Designed to acclimate students to historic textiles created primarily for use in interior architecture. Focus is on aesthetics, design and construction. A comprehensive adaptive reuse or restoration project is required.

**Prerequisite:** ID 44534 and ID 44535; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**ID 54534 HISTORY OF INTERIORS TO 1600 4 Credit Hours**

A chronological study of housing and furnishings from civilization to the 15th century.

**Prerequisite:** Graduate standing and special approval and ID 34504; and ARTH 22006 and ARTH 22007; or ARCH 10011 and ARCH 10012.

**Schedule Type:** Lecture

**Contact Hours:** 4 lecture

**Grade Mode:** Standard Letter

**ID 54535 HISTORY OF INTERIORS 1600 TO PRESENT 4 Credit Hours**

A chronological study of housing and furnishings from the Renaissance to the Victorian Period, sixteenth to nineteenth centuries and twentieth century.

**Prerequisite:** ID 54534; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 4 lecture

**Grade Mode:** Standard Letter

## Landscape Architecture (LARC)

**LARC 50100 DESIGN VISUALIZATION 3 Credit Hours**

Demonstration and application of computer software that aids the communication skill of a designer.

**Prerequisite:** Landscape architecture major; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**LARC 50101 LANDSCAPE ARCHITECTURE STUDIO I 6 Credit Hours**

Garden Typologies: Beginning studio focused on garden typologies including exploration of small scale design elements and site, with private spaces emphasis.

**Prerequisite:** Landscape architecture major; and graduate standing.

**Schedule Type:** Studio

**Contact Hours:** 12 other

**Grade Mode:** Standard Letter

**LARC 50102 LANDSCAPE ARCHITECTURE STUDIO II 6 Credit Hours**

Neighborhoods: Small scale community design that connects spaces to form neighborhoods and establishes linkages to larger communities.

**Prerequisite:** LARC 50101; and landscape architecture major; and graduate standing.

**Schedule Type:** Studio

**Contact Hours:** 12 other

**Grade Mode:** Standard Letter

**LARC 60103 LANDSCAPE ARCHITECTURE STUDIO III 6 Credit Hours**

Systems and Infrastructure: Natural and hybrid ecological design studio with exploration of the role of systems and the integration into suburban and urban infrastructures with a focus on ecological function and services.

**Prerequisite:** LARC 50102; and landscape architecture major; and graduate standing.

**Schedule Type:** Studio

**Contact Hours:** 12 other

**Grade Mode:** Standard Letter

**LARC 60104 LANDSCAPE ARCHITECTURE STUDIO IV 6 Credit Hours**

Urban Form: Urban design studio at multiple scales to understand the diversity of a city with an emphasis on the relationships of architecture forms, systems, infrastructures, and landscape architecture functions.

**Prerequisite:** LARC 60103; and landscape architecture major; and graduate standing.

**Schedule Type:** Studio

**Contact Hours:** 12 other

**Grade Mode:** Standard Letter

**LARC 60105 LANDSCAPE ARCHITECTURE STUDIO V 6 Credit Hours**

Interdisciplinary or Capstone Studio: Option of a studio with graduate CUDC architecture and urban design students or development of an individual studio project with a selected faculty advisor.

**Prerequisite:** LARC 60104; and graduate standing.

**Schedule Type:** Studio

**Contact Hours:** 12 other

**Grade Mode:** Standard Letter

**LARC 60106 LANDSCAPE ARCHITECTURE STUDIO VI 6 Credit Hours**

Interdisciplinary or Capstone Studio 2: Option of a studio with graduate CUDC architecture and urban design students or develop individual studio project and select faculty adviser.

**Prerequisite:** LARC 60105; and graduate standing.

**Schedule Type:** Studio

**Contact Hours:** 12 other

**Grade Mode:** Standard Letter-IP

**LARC 60111 LANDSCAPE HISTORY AND THEORY 3 Credit Hours**

Presentation of important landscape events, people and places to document and explain the factors that influenced the built and natural environments, with emphasis on cultural theories of design and their influence upon the built and natural environments.

**Prerequisite:** Landscape architecture major; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**LARC 60301 SITE ENGINEERING 3 Credit Hours**

Examination and application of typical engineering strategies for small and large scale landscape projects with a concentration on sustainable practices.

**Prerequisite:** Landscape architecture major; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**LARC 60401 LANDSCAPE ARCHITECTURE CONSTRUCTION METHODS 3 Credit Hours**

Discussion and application of small and large scale construction techniques that explore materials, construction assemblies, construction methods and construction documentation including investigations of lifecycles and maintenance of design decisions.

**Prerequisite:** Landscape architecture major; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**LARC 60601 PLANTS AND PLANTED FORM 3 Credit Hours**

Plant identification with emphasis on individual plants and plant communities as relate to the built environment; integrated into the application of formal and informal design strategies for landscape planning that explores individual plants, plant communities and ecosystems. Further emphasis is placed on the relationships of architecture and interior design to landscape architecture.

**Prerequisite:** Landscape architecture major; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**LARC 60602 URBAN ECOLOGICAL SYSTEMS 3 Credit Hours**

Study of how ecological systems in highly anthropocentric environments provide necessary ecological services. Emphasized is the role that water plays in activating the supporting, provisioning, regulating and cultural ecosystem services required for human well-being.

**Prerequisite:** Landscape architecture major; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**LARC 60798 MASTER PROJECT IN LANDSCAPE ARCHITECTURE RESEARCH 3 Credit Hours**

Development of a rationale and structure for the independent design project to be completed in the final semester of the program.

**Prerequisite:** Graduate standing.

**Schedule Type:** Research

**Contact Hours:** 9 other

**Grade Mode:** Standard Letter

**LARC 60799 MASTERS PROJECT IN LANDSCAPE ARCHITECTURE 6 Credit Hours**

Independent Landscape Architecture design project, completed under the direction of an individual advisor selected from the graduate faculty.

**Prerequisite:** LARC 60105 and Graduate standing.

**Schedule Type:** Project or Capstone

**Contact Hours:** 6 other

**Grade Mode:** Standard Letter

**LARC 60922 METHODS OF INQUIRY IN ARCHITECTURAL STUDIES 2 Credit Hours**

(Cross-listed with AED 60922 and ARCH 60922) Provides a comprehensive coverage of architectural inquiry techniques, including qualitative and quantitative research methods and critical-thinking skills to help students better conduct and understand research.

**Prerequisite:** Landscape architecture major; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**LARC 60923 EMPIRICAL RESEARCH IN ENVIRONMENTAL DESIGN 1 Credit Hour**

(Cross-listed with AED 60923) Introduces student to faculty-directed research in a field within the environmental design domain. Includes lectures by research faculty, readings from primary and review literature, and regular discussions among students, faculty and other research associates working under the direction of a principal investigator.

**Prerequisite:** Landscape architecture major; and graduate standing.

**Corequisite:** LARC 60922.

**Schedule Type:** Lecture

**Contact Hours:** 1 lecture

**Grade Mode:** Standard Letter

**LARC 65003 PROFESSIONAL PRACTICE: LEADERSHIP, ETHICS AND OFFICE MANAGEMENT 3 Credit Hours**

Discusses issues of professional leadership and examines architectural office structures. Management approaches, professional registration and practice, use of consulting engineers and financial management of an office in the profession as business.

**Prerequisite:** Landscape architecture major; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**LARC 66992 FIELD STUDY IN LANDSCAPE ARCHITECTURE 1-3 Credit Hours**

(Repeatable for credit) Field study in landscape architecture.

**Prerequisite:** Graduate standing.

**Schedule Type:** Practical Experience

**Contact Hours:** 3-9 other

**Grade Mode:** Standard Letter

**LARC 66995 SPECIAL TOPICS IN LANDSCAPE ARCHITECTURE 1-3 Credit Hours**

(Repeatable for credit) Special topics in landscape architecture.

**Schedule Type:** Lecture, Research

**Contact Hours:** 1-3 other

**Grade Mode:** Standard Letter

## Urban Design (UD)

**UD 55705 FORCES THAT SHAPE CITIES 1-3 Credit Hours**

(Repeatable for maximum 3 credit hours) Course examines the forces that have shaped urban form through history, how they impact our cities today and the challenges they will pose for the future.

**Prerequisite:** Graduate standing.

**Schedule Type:** Seminar

**Contact Hours:** 1-3 other

**Grade Mode:** Standard Letter

**UD 60701 URBAN DESIGN STUDIO I 3-6 Credit Hours**

Introduction to urban design and its relationship to other design disciplines through the analysis of neighborhoods and the definition of comprehensive area improvement programs.

**Prerequisite:** Graduate standing.

**Schedule Type:** Studio

**Contact Hours:** 6-10 other

**Grade Mode:** Standard Letter

**UD 60702 URBAN DESIGN STUDIO II 3-6 Credit Hours**

Urban design explorations of the formal relationships between buildings, open spaces and street sin the development of high density, mixed-use projects.

**Prerequisite:** UD 60701; and graduate standing.

**Schedule Type:** Studio

**Contact Hours:** 6-10 other

**Grade Mode:** Standard Letter

**UD 60703 URBAN DESIGN STUDIO III 3-6 Credit Hours**

Design of a comprehensive redevelopment strategy and implementation strategies for an urban area of diverse existing character.

**Prerequisite:** UD 55705 and 60702 and 65102; and graduate standing.

**Schedule Type:** Studio

**Contact Hours:** 3-6 other

**Grade Mode:** Standard Letter

**UD 60705 MASTER PROJECT IN URBAN DESIGN PREPARATION 1-3 Credit Hours**

(Repeatable for maximum three credit hours) Development of a rationale and structure for the independent design project to be completed in the final semester of the program.

**Prerequisite:** UD 60703; and graduate standing.

**Schedule Type:** Seminar

**Contact Hours:** 1-3 other

**Grade Mode:** Standard Letter-IP

**UD 60798 MASTERS PROJECT IN URBAN DESIGN 6-9 Credit Hours**

Independent urban design project, completed under the direction of an individual advisor selected from the graduate faculty.

**Prerequisite:** UD 60703 and 60705; and graduate standing.

**Schedule Type:** Master's Project

**Contact Hours:** 10-15 other

**Grade Mode:** Standard Letter-IP

**UD 65101 COMMUNITY DEVELOPMENT PROCESS 1-3 Credit Hours**

Advanced course on comprehensive community development. Case study analysis, qualitative research and work with community initiatives are required.

**Prerequisite:** UD 55705 and 60703 and 65102; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 1-3 lecture

**Grade Mode:** Standard Letter

**UD 65102 URBAN SYSTEMS 1-3 Credit Hours**

Introduction to urban systems in its socio-economic, environmental and engineering aspects: residential fabric, commercial sector, open space network, transportation systems, and infrastructures.

**Prerequisite:** Graduate standing.

**Schedule Type:** Seminar

**Contact Hours:** 1-3 other

**Grade Mode:** Standard Letter

**UD 65632 URBAN ECOLOGICAL SYSTEMS 3 Credit Hours**

Study of how ecological systems in highly anthropocentric environments provide necessary ecological services. Emphasized is the role that water plays in activating the supporting, provisioning, regulating, and cultural ecosystem services required for human well-being.

**Prerequisite:** UD 65102; and graduate standing.

**Schedule Type:** Seminar

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**UD 66995 SPECIAL TOPICS IN URBAN DESIGN 1-4 Credit Hours**

(Repeatable for credit) Special topics in urban design.

**Prerequisite:** Graduate standing.

**Schedule Type:** Seminar

**Contact Hours:** 1-4 other

**Grade Mode:** Standard Letter

## Architectural History - Minor

College of Architecture and Environmental Design

Center for Architecture and Environmental Design

Kent Campus

330-672-2917

CAED\_info@kent.edu

www.kent.edu/caed



## Description

The Architectural History minor is intended for students who desire to expand their understanding of architectural history. Students with a major or interest in any of the following may benefit from this minor: architectural studies, interior design, geography, history and art history.

### Fully Offered At:

- Kent Campus

## Admission Requirements

Admission to a minor is open to students declared in a bachelor's degree, the A.A.B. or A.A.S. degree or the A.T.S. degree (not Individualized Program major). Students declared only in the A.A. or A.S. degree or the A.T.S. degree in Individualized Program may not declare a minor. Students may not pursue a minor and a major in the same discipline.

## Minor Requirements

Code	Title	Credit Hours
<b>Minor Requirements</b>		
ARCH 10011	GLOBAL ARCHITECTURAL HISTORY I (KFA)	3
ARCH 10012	GLOBAL ARCHITECTURAL HISTORY II (KFA)	3
Minor Electives, choose from the following:		15
ARCH 45210	RENAISSANCE ARCHITECTURE	
ARCH 45211	BAROQUE ARCHITECTURE	
ARCH 45213	20TH CENTURY ARCHITECTURAL HISTORY	
ARCH 45220	AMERICAN ARCHITECTURE:COLONIAL TO 1900	
ARCH 45230	FRANK LLOYD WRIGHT	
ARCH 45240	THE SKYSCRAPER	
ARCH 45291	SEMINAR: VARIABLE TOPICS IN ARCHITECTURAL HISTORY	

Minimum Total Credit Hours: 21

## Graduation Requirements

Minimum Minor GPA	Minimum Overall GPA
2.000	2.000

- Minimum 6 credit hours in the minor must be upper-division coursework (30000 and 40000 level).
- Minimum 6 credit hours in the minor must be outside of the course requirements for any major or other minor the student is pursuing.
- Minimum 50 percent of the total credit hours for the minor must be taken at Kent State (in residence).

## Architectural Studies - B.A.

**College of Architecture and Environmental Design**  
Center for Architecture and Environmental Design  
Kent Campus  
330-672-2917  
CAED\_info@kent.edu  
www.kent.edu/caed

## Description

The Bachelor of Arts degree in Architectural Studies is a liberal arts program that exposes students to the theory and processes of design, and prepares them for directed graduate study and careers in a variety of design-related disciplines.

As the only liberal arts degree in Kent State's College of Architecture and Environmental Design, the Architectural Studies major allows students to pursue dual degrees, double majors and/or multiple minors in related fields such as art history, business, construction management, fashion, geography, history, marketing, music, physical/life sciences, studio arts, urban studies, visual communications design and others. The program includes required design studios; lecture/studio hybrid courses; and seminars on architectural history, theory/criticism, urban issues and theories of sustainability. Additionally, students take architecture electives, which allow them to explore digital design processes, landscape architecture and urban design, or to pursue a minor in architectural history or historic preservation.

Students have the option of graduating with a streamlined dual degree, the B.A. degree in Architectural Studies and the B.S. degree in Construction Management .

Students may take advantage of the semester-long study abroad program in Florence, Italy, in any semester after successful completion of AED 10101 and AED 10102. This program is open to all students who have made satisfactory progress toward completion of their undergraduate program. While in Florence, students may take design studios, electives, foreign language courses in Italian, and/or courses that may count towards a minor.

### Fully Offered At:

- Kent Campus

## Admission Requirements

The university affirmatively strives to provide educational opportunities and access to students with varied backgrounds, those with special talents and adult students who graduated from high school three or more years ago.

**Freshman Students on the Kent Campus:** The freshman admission policy on the Kent Campus is selective. Admission decisions are based upon the following: cumulative grade point average, ACT and/or SAT scores, strength of high school college preparatory curriculum and grade trends. The Admissions Office at the Kent Campus may defer the admission of students who do not meet admissions criteria but who demonstrate areas of promise for successful college study. Deferred applicants may begin their college coursework at one of seven regional campuses of Kent State University. For more information on admissions, including additional requirements for some academic programs, visit the admissions website for new freshmen.

**Freshman Students on the Regional Campuses:** Kent State campuses at Ashtabula, East Liverpool, Geauga, Salem, Stark, Trumbull and Tuscarawas, as well as the Regional Academic Center in Twinsburg, have open enrollment admission for students who hold a high school diploma, GED or equivalent.

### English Language Proficiency Requirements for International Students:

All international students must provide proof of English language proficiency (unless they meet specific exceptions) by earning a minimum 525 TOEFL score (71 on the Internet-based version), minimum 75 MELAB score, minimum 6.0 IELTS score or minimum 48 PTE score, or by

completing the ESL level 112 Intensive Program. For more information on international admission, visit the Office of Global Education's admission website.

**Transfer, Transitioning and Former Students:** For more information about admission criteria for transfer, transitioning and former students, please visit the admissions website.

## Program Learning Outcomes

Graduates of this program will be able to:

1. Demonstrate understanding of the language, logic and rhetoric of design, and ability to deploy this understanding in design projects, research, analysis and critique.
2. Demonstrate abilities in design thinking, visual thinking, critical thinking and design discourse.
3. Demonstrate skills in research and apply these skills to the design of the built environment.
4. Recognize the value of cultural diversity and a broad range of historical traditions.
5. Demonstrate understanding of the interconnectedness of the allied design disciplines, and the ability to articulate relationships between these professions and other areas of study
6. Appreciate a wider range of contrasting perspectives on sustainability, recognize the relationship between these perspectives and the design of the built environment, and advocate for specific positions
7. Utilize and interpret literature and data related to environments and their design
8. Demonstrate leadership skills in cross-disciplinary settings

## University Requirements

All students in a bachelor's degree program at Kent State University must complete the following university requirements for graduation.

**NOTE:** University requirements may be fulfilled in this program by specific course requirements. Please see Program Requirements for details.

Destination Kent State: First Year Experience	1
Course is not required for students with 25 transfer credits, excluding College Credit Plus, or age 21+ at time of admission.	
Diversity Domestic/Global (DIVD/DIVG)	2 courses
Students must successfully complete one domestic and one global course, of which one must be from the Kent Core.	
Experiential Learning Requirement (ELR)	varies
Students must successfully complete one course or approved experience.	
Kent Core (see table below)	36-37
Writing-Intensive Course (WIC)	1 course
Students must earn a minimum C grade in the course.	
Upper-Division Requirement	39 (or 42)
Students must successfully complete 39 upper-division (numbered 30000 to 49999) credit hours to graduate. Students in a B.A. and/or B.S. degree in the College of Arts and Sciences must complete 42 upper-division credit hours.	
Total Credit Hour Requirement	120
Some bachelor's degrees require students to complete more than 120 credit hours.	

## Kent Core Requirements

Kent Core Composition (KCMP)	6
Kent Core Mathematics and Critical Reasoning (KMCR)	3
Kent Core Humanities and Fine Arts (KHUM/KFA) (min one course each)	9
Kent Core Social Sciences (KSS) (must be from two disciplines)	6
Kent Core Basic Sciences (KBS/KLAB) (must include one laboratory)	6-7
Kent Core Additional (KADL)	6
<b>Total Credit Hours:</b>	<b>36-37</b>

## Program Requirements

### Major Requirements

Code	Title	Credit Hours
<b>Major Requirements (courses count in major GPA)</b>		
AED 10101	DESIGN FOUNDATIONS STUDIO I	3
AED 10102	DESIGN FOUNDATIONS STUDIO II	3
ARCH 10011	GLOBAL ARCHITECTURAL HISTORY I (KFA)	3
ARCH 10012	GLOBAL ARCHITECTURAL HISTORY II (KFA)	3
ARCH 45213	20TH CENTURY ARCHITECTURAL HISTORY	3
ARCS 20121	STUDIO FOR ARCHITECTURAL STUDIES	4
ARCS 30123	MATERIALS AND PROCESS OF MAKING <sup>1</sup>	3
ARCS 30124	METHODS AND THEORIES OF REPRESENTATION	3
ARCS 30321	STRUCTURAL TYPOLOGY <sup>2</sup>	3
ARCS 30421	ENVIRONMENTAL IMPERATIVES	3
ARCS 40022	URBAN DESIGN DISCOURSE (ELR)	3
ARCS 40114	THEORY AND CRITICISM IN ARCHITECTURAL MEDIA (WIC) <sup>3</sup>	3
Architecture (ARCH) Upper-Division Electives (30000 or 40000 level) <sup>4</sup>		12
<b>Additional Requirements (courses do not count in major GPA)</b>		
ARTH 22006	ART HISTORY: ANCIENT AND MEDIEVAL ART (KFA)	3
ARTH 22007	ART HISTORY: RENAISSANCE TO MODERN ART (KFA)	3
PHIL 11009	CRITICAL THINKING (KADL)	3
UC 10097	DESTINATION KENT STATE: FIRST YEAR EXPERIENCE	1
Foreign Language <sup>5</sup>		11-15
Kent Core Composition		6
Kent Core Mathematics and Critical Reasoning		3
Kent Core Humanities		3
Kent Core Social Sciences (must be from two disciplines)		6
Kent Core Basic Sciences (must include one laboratory)		6-7
Non-Architecture Electives (total credit hours depends on earning 121 credit hours, including 39 upper-division credit hours)		27
Minimum Total Credit Hours:		121

<sup>1</sup> Students declaring a dual degree program with the B.S. in Construction Management may substitute CMGT 21071 for ARCS 30123.

<sup>2</sup> Students declaring a dual degree program with the B.S. in Construction Management may substitute TECH 33111 for ARCS 30321.

<sup>3</sup> A minimum C grade must be earned to fulfill the writing-intensive requirement.

- <sup>4</sup> Students declaring a dual degree program with the B.S. in Construction Management may substitute CMGT 42110 for 3 credit hours of Architecture upper-division electives.
- <sup>5</sup> Students declaring a dual degree program with the B.S. in Construction Management may substitute ACCT 23020, ECON 22060; ECON 22061 and MKTG 25010 for the foreign language requirement.

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## Graduation Requirements

Minimum Major GPA	Minimum Overall GPA
2.250	2.000

- Dual degree-seeking students who are also declared in the Construction Management major are required to complete a minimum total of 140 credit hours.
- Students in the Architectural Studies major are required to declare and complete a minor. Students may select any minor available at Kent State University. The number of credit hours required to complete the minor depends on the minor selected.

## Roadmap

This roadmap is a recommended semester-by-semester plan of study for this major. However, courses designated as critical (!) must be completed in the semester listed to ensure a timely graduation.

Semester One		Credits
!	AED 10101 DESIGN FOUNDATIONS STUDIO I	3
	UC 10097 DESTINATION KENT STATE: FIRST YEAR EXPERIENCE	1
	Foreign Language	4-5
	Kent Core Requirement	3
	Kent Core Requirement	3
	Credit Hours	14
Semester Two		Credits
!	AED 10102 DESIGN FOUNDATIONS STUDIO II	3
	ARTH 22006 ART HISTORY: ANCIENT AND MEDIEVAL ART (KFA)	3
	PHIL 11009 CRITICAL THINKING (KADL)	3
	Foreign Language	4-5
	Kent Core Requirement	3
	Credit Hours	16
Semester Three		Credits
	ARCH 10011 GLOBAL ARCHITECTURAL HISTORY I (KFA)	3
	ARTH 22007 ART HISTORY: RENAISSANCE TO MODERN ART (KFA)	3
	Foreign Language	3-5
	Kent Core Requirement	3
	Kent Core Requirement	3
	Credit Hours	15
Semester Four		Credits
	ARCH 10012 GLOBAL ARCHITECTURAL HISTORY II (KFA)	3
	ARCS 20121 STUDIO FOR ARCHITECTURAL STUDIES	4
	Kent Core Requirement	3
	Kent Core Requirement	3
	Kent Core Requirement	3
	Credit Hours	16
Semester Five		Credits
	ARCS 30123 MATERIALS AND PROCESS OF MAKING	3
	ARCS 30321 STRUCTURAL TYPOLOGY	3
	Non-Architecture Electives	9
	Credit Hours	15
Semester Six		Credits
	ARCS 30124 METHODS AND THEORIES OF REPRESENTATION	3
	ARCS 30421 ENVIRONMENTAL IMPERATIVES	3
	ARCH 45213 20TH CENTURY ARCHITECTURAL HISTORY	3
	Non-Architecture Electives	6
	Credit Hours	15
Semester Seven		Credits
	ARCS 40022 URBAN DESIGN DISCOURSE (ELR)	3
	ARCS 40114 THEORY AND CRITICISM IN ARCHITECTURAL MEDIA (WIC)	3
	Architecture (ARCH) Upper-Division Electives (30000 or 40000 level)	6
	Non-Architecture Electives	3
	Credit Hours	15

### Semester Eight

Architecture (ARCH) Upper-Division Electives (30000 or 40000 level)	6
Non-Architecture Electives	9
Credit Hours	15
Minimum Total Credit Hours:	121

## Architectural Studies - Minor

### College of Architecture and Environmental Design

Center for Architecture and Environmental Design

Kent Campus

330-672-2917

CAED\_info@kent.edu

www.kent.edu/caed

## Description

The Architectural Studies minor exposes students to the history, theory and design process of architecture and the built environment. Potential majors to benefit from this minor include, but are not limited to, studio arts, fashion, photojournalism, interior design, visual communication design, construction management, the sciences, English, history, public health, journalism/mass communication and business management.

### Fully Offered At:

- Kent Campus

## Admission Requirements

Admission to a minor is open to students declared in a bachelor's degree, the A.A.B. or A.A.S. degree or the A.T.S. degree (not Individualized Program major). Students declared only in the A.A. or A.S. degree or the A.T.S. degree in Individualized Program may not declare a minor. Students may not pursue a minor and a major in the same discipline.

## Minor Requirements

Code	Title	Credit Hours
<b>Minor Requirements</b>		
ARCH 10011	GLOBAL ARCHITECTURAL HISTORY I (KFA)	3
ARCH 10012	GLOBAL ARCHITECTURAL HISTORY II (KFA)	3
Minor Electives, choose from the following:		12
ARCH 45213	20TH CENTURY ARCHITECTURAL HISTORY	
ARCH 46995	SPECIAL TOPICS IN ARCHITECTURE	
ARCS 30123	MATERIALS AND PROCESS OF MAKING	
ARCS 30124	METHODS AND THEORIES OF REPRESENTATION	
ARCS 30321	STRUCTURAL TYPOLOGY	
ARCS 30421	ENVIRONMENTAL IMPERATIVES	
ARCS 40022	URBAN DESIGN DISCOURSE (ELR)	
ARCS 40114	THEORY AND CRITICISM IN ARCHITECTURAL MEDIA (WIC)	
Minimum Total Credit Hours:		18

## Graduation Requirements

Minimum Minor GPA	Minimum Overall GPA
2.000	2.000

- Minimum 9 credit hours must be upper-division coursework (30000 and 40000 level).
- Minimum 6 credit hours in the minor must be outside of the course requirements for any major or other minor the student is pursuing.
- Minimum 50 percent of the total credit hours for the minor must be taken at Kent State (in residence).
- Some upper-division courses may have prerequisites that students must satisfy prior to enrollment.

## Architecture - B.S.

### College of Architecture and Environmental Design

Center for Architecture and Environmental Design

Kent Campus

330-672-2917

CAED\_info@kent.edu

www.kent.edu/caed

## Description

The Bachelor of Science degree in Architecture enables students to learn, develop, and apply knowledge that contributes to the betterment of the built environment. The balanced curriculum of technology, visualization, history, theory, and design studio coursework offers a platform for research, constructive discourse and debate. Northeast Ohio's rich history and dynamic urban landscape serve as a setting for academic learning. By placing equal emphasis on the art and science of architectural design, the curriculum inspires experimentation, collaboration, discovery, critical thinking, and innovation in a studio context of project-based learning. The program fosters academic excellence and prepares students to become leaders in the architecture field.

The college offers full-semester programs abroad for qualified third-year students. The study abroad program is housed in the heart of historic Florence, Italy. The program is open to all students who have made satisfactory progress toward completion of their undergraduate program.

### Fully Offered At:

- Kent Campus

## Admission Requirements

The university affirmatively strives to provide educational opportunities and access to students with varied backgrounds, those with special talents and adult students who graduated from high school three or more years ago.

**Freshmen Students:** Admission to the Architecture major is highly selective. Of the students who apply each year, approximately 100 are enrolled in the program. Of the remaining applicants, approximately 50 are selected as alternates. Should additional space become available

prior to the beginning of fall semester, spaces will be filled from the roster of alternates.

To be considered for admission, students need a minimum 3.000 high school grade point average (on a 4.000 scale) and a minimum ACT 25 composite score (minimum ACT 25 sub scores in both English and mathematics) or a minimum SAT 1200 total with minimum 600 sub scores of in both mathematics and evidence-based reading and writing.

Application deadline is Jan. 31. All applications must include the application fee, official ACT/SAT scores and an official high school transcript that shows class rank and coursework in 9th, 10th and 11th grades, as well as the courses that are being taken or will be taken in the senior year. Transcripts that do not show class rank and senior courses cannot be considered. All completed applications received by the deadline will be reviewed.

Applicants will be notified of their admission status by March 1. Those offered admission to the architecture program must notify the college of their decision by April 1. Admission not confirmed by this date will be offered to alternates.

Applicants with a non-professional bachelor's degree or a pre-professional degree from another institution will have their prior education evaluated to determine if they meet student performance criteria as stipulated by the National Architectural Accrediting Board (NAAB). If deficient criteria or courses are recognized, the student may be required to complete additional courses to earn the degree. Determinations will be made by the program director and graduate coordinator at the time the student is admitted to the program

**Admission to Non-Degree General major:** Students not admitted to the Architecture major may qualify for admission to the college's non-degree General major. Students in the General major are assigned to freshman orientation classes with students in all College of Architecture and Environmental Design majors. These classes aid in understanding the broad range of career options within the environmental design professions. Students should take regular coursework in preparation to attempt entry into one of the College of Architecture and Environmental Design majors or may consider alternative degree program options. Students should meet with their advisor to aid in making a decision regarding their degree program and major. In order to move forward with a minimum loss of credit hours, it is strongly recommended that students in the General, who were not accepted into a degree program, choose an alternate degree program within or outside the college prior to completing 45 credit hours.

Students in the General major may apply for admission to the architecture summer studio program. To be eligible, they must complete their first year with a minimum 2.750 GPA (3.000 GPA or higher are the most competitive), complete first year non-studio requirements and apply for the summer studio program. Students who are accepted will complete ARCH 10101 and ARCH 10102 during the summer between their first and second years. A personal interview with the associate college dean is recommended during the first week of the spring semester of their first year.

**Transfer, Transitioning and Former Students:** For more information about admission criteria for transfer, transitioning and former students, please visit the admissions website.

**English Language Proficiency Requirements for International Students:** All international students must provide proof of English language proficiency (unless they meet specific exceptions) by earning a minimum



525 TOEFL score (71 on the Internet-based version), minimum 75 MELAB score, minimum 6.0 IELTS score or minimum 48 PTE Academic score, or by completing the ELS level 112 Intensive Program. For more information on international admission, visit the Office of Global Education's admission website.

## Program Learning Outcomes

Graduates of this program will be able to:

1. Demonstrate the fundamentals of visual perception and the principles of two and three-dimensional form and space making.
2. Demonstrate comprehensive design studio experiences through which graduates apply an understanding of the integration of building design, site design, assemblies, structure, environmental systems and building code requirements.
3. Demonstrate an understanding of building systems and their integration for human comfort, including lighting, heating ventilation and acoustics.

## University Requirements

All students in a bachelor's degree program at Kent State University must complete the following university requirements for graduation.

**NOTE:** University requirements may be fulfilled in this program by specific course requirements. Please see Program Requirements for details.

Destination Kent State: First Year Experience	1
Course is not required for students with 25 transfer credits, excluding College Credit Plus, or age 21+ at time of admission.	
Diversity Domestic/Global (DIVD/DIVG)	2 courses
Students must successfully complete one domestic and one global course, of which one must be from the Kent Core.	
Experiential Learning Requirement (ELR)	varies
Students must successfully complete one course or approved experience.	
Kent Core (see table below)	36-37
Writing-Intensive Course (WIC)	1 course
Students must earn a minimum C grade in the course.	
Upper-Division Requirement	39 (or 42)
Students must successfully complete 39 upper-division (numbered 30000 to 49999) credit hours to graduate. Students in a B.A. and/or B.S. degree in the College of Arts and Sciences must complete 42 upper-division credit hours.	
Total Credit Hour Requirement	120
Some bachelor's degrees require students to complete more than 120 credit hours.	

## Kent Core Requirements

Kent Core Composition (KCOMP)	6
Kent Core Mathematics and Critical Reasoning (KMCR)	3
Kent Core Humanities and Fine Arts (KHUM/KFA) (min one course each)	9
Kent Core Social Sciences (KSS) (must be from two disciplines)	6
Kent Core Basic Sciences (KBS/KLAB) (must include one laboratory)	6-7
Kent Core Additional (KADL)	6
<b>Total Credit Hours:</b>	<b>36-37</b>

## Program Requirements

### Major Requirements

Code	Title	Credit Hours
<b>Major Requirements (courses count in major GPA)</b>		
AED 10101	DESIGN FOUNDATIONS STUDIO I	3
AED 10102	DESIGN FOUNDATIONS STUDIO II	3
ARCH 10011	GLOBAL ARCHITECTURAL HISTORY I (KFA)	3
ARCH 10012	GLOBAL ARCHITECTURAL HISTORY II (KFA)	3
ARCH 20101	SECOND YEAR DESIGN STUDIO I	3
ARCH 20102	SECOND YEAR DESIGN STUDIO II	3
ARCH 20301	INTRODUCTION TO BUILDING STRUCTURES	3
ARCH 20601	COMPUTER APPLICATIONS IN ARCHITECTURE I	2
ARCH 20602	COMPUTER APPLICATIONS IN ARCHITECTURE II	1
ARCH 30001	SITE DESIGN (WIC) <sup>1</sup>	1
ARCH 30002	URBAN DESIGN <sup>2</sup>	1
ARCH 30101	THIRD YEAR DESIGN STUDIO I	5
ARCH 30102	THIRD YEAR DESIGN STUDIO II (ELR) <sup>3</sup>	5
ARCH 40001	SUSTAINABLE DESIGN (WIC) <sup>1</sup>	1
ARCH 40002	SYSTEMS DESIGN	1
ARCH 40101	FOURTH YEAR DESIGN STUDIO I	5
ARCH 40102	INTEGRATED DESIGN STUDIO	5
ARCH 40301	STRUCTURAL SYSTEMS I	3
ARCH 40302	STRUCTURAL SYSTEMS II	3
ARCH 40401	METHODS AND MATERIALS I	3
ARCH 40402	METHODS AND MATERIALS II	3
ARCH 40501	ENVIRONMENTAL TECHNOLOGY I	3
ARCH 40502	ENVIRONMENTAL TECHNOLOGY II	3
Architecture (ARCH) Upper-Division Electives (30000 or 40000 level)		9
Architectural History Elective, choose from the following:		3
ARCH 45210	RENAISSANCE ARCHITECTURE	
ARCH 45211	BAROQUE ARCHITECTURE	
ARCH 45213	20TH CENTURY ARCHITECTURAL HISTORY	
ARCH 45220	AMERICAN ARCHITECTURE: COLONIAL TO 1900	
ARCH 45230	FRANK LLOYD WRIGHT	
ARCH 45240	THE SKYSCRAPER	
ARCH 45241	ARCHITECTURE OF WORLD'S FAIRS	
ARCH 45291	SEMINAR: VARIABLE TOPICS IN ARCHITECTURAL HISTORY	
<b>Additional Requirements (courses do not count in major GPA)</b>		
MATH 12011	CALCULUS WITH PRECALCULUS I (KMCR)	3
MATH 12002	ANALYTIC GEOMETRY AND CALCULUS I (KMCR)	3-5
or MATH 12012	CALCULUS WITH PRECALCULUS II (KMCR)	
PHY 13001	GENERAL COLLEGE PHYSICS I (KBS)	4
PHY 13012	COLLEGE PHYSICS II (KBS) <sup>4</sup>	2
PHY 13021	GENERAL COLLEGE PHYSICS LABORATORY I (KBS) (KLAB)	1
UC 10097	DESTINATION KENT STATE: FIRST YEAR EXPERIENCE	1
Kent Core Composition		6
Kent Core Humanities		3
Kent Core Social Sciences <sup>5</sup>		6
Kent Core Additional		3

Non-Architecture Electives (total credit hours depends on earning 124 credit hours, including 39 upper-division credit hours)	14
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Minimum Total Credit Hours:	124
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- <sup>1</sup> A minimum C grade must be earned to fulfill the writing-intensive requirement.
- <sup>2</sup> This course is equivalent to ARCH 30012.
- <sup>3</sup> This course is equivalent to ARCH 30112.
- <sup>4</sup> Students who successfully complete PHY 13002 will have met the requirement for PHY 13012.
- <sup>5</sup> ECON 22060 is a recommended Kent Core Social Sciences course.

- No more than the first 16 credit hours of ROTC courses—Aerospace Studies (ASTU) and Military Studies (MSCI)—may apply to required credit hours for graduation. Veterans who have completed a minimum one year of active duty may receive PWS credit for military basic training according to branch of service, as follows:
  - Army and Marine Corps: 3 credit hours
  - Navy and Coast Guard: 2 credit hours
  - Air Force: 1 credit hour

## Progression Requirements

Requirements for advancement to third year—professional level:

Advancement review for the Bachelor of Science in Architecture occurs at the end of the second year. Upon completion of 60 credit hours, students are required to contact the Office of Advising and Academic Services in Taylor Hall to obtain a requirement sheet bearing a current evaluation of all progress toward completion of the student's chosen degree program. Requirement evaluations are not a substitute for meeting with a faculty advisor. To advance, students must accomplish the following:

- Comply with all specific course prerequisites
- Earn a minimum 2.25 GPA in architecture courses
- Earn a minimum 2.50 overall GPA
- Complete the following courses:

Code	Title	Credit Hours
AED 10101	DESIGN FOUNDATIONS STUDIO I	3
AED 10102	DESIGN FOUNDATIONS STUDIO II	3
ARCH 10011	GLOBAL ARCHITECTURAL HISTORY I (KFA)	3
ARCH 10012	GLOBAL ARCHITECTURAL HISTORY II (KFA)	3
ARCH 20101	SECOND YEAR DESIGN STUDIO I	3
ARCH 20102	SECOND YEAR DESIGN STUDIO II	3
ARCH 20301	INTRODUCTION TO BUILDING STRUCTURES	3
ARCH 20601	COMPUTER APPLICATIONS IN ARCHITECTURE I	1-3
ARCH 20602	COMPUTER APPLICATIONS IN ARCHITECTURE II	1-3
MATH 12011 & MATH 12012 or MATH 12002	CALCULUS WITH PRECALCULUS I (KMCR) and CALCULUS WITH PRECALCULUS II (KMCR) ANALYTIC GEOMETRY AND CALCULUS I (KMCR)	5-6
PHY 13001	GENERAL COLLEGE PHYSICS I (KBS)	4
PHY 13012	COLLEGE PHYSICS II (KBS)	2
PHY 13021	GENERAL COLLEGE PHYSICS LABORATORY I (KBS) (KLAB)	1
Kent Core Composition		6

## Graduation Requirements

Minimum Major GPA	Minimum Overall GPA
2.250	2.000

- Architecture majors may not use the following course to satisfy the architectural major requirements: ARCH 10001.
- No more than 4 credit hours of Physical Activity, Wellness and Sport (PWS) courses may apply to required credit hours for graduation.

## Roadmap

This roadmap is a recommended semester-by-semester plan of study for this major. However, courses designated as critical (!) must be completed in the semester listed to ensure a timely graduation.

Semester One		Credits
!	AED 10101 DESIGN FOUNDATIONS STUDIO I	3
	MATH 12011 CALCULUS WITH PRECALCULUS I (KMCR)	3
	UC 10097 DESTINATION KENT STATE: FIRST YEAR EXPERIENCE	1
	Kent Core Requirement	3
	Kent Core Requirement	3
	Kent Core Requirement	3
Credit Hours		16
Semester Two		
!	AED 10102 DESIGN FOUNDATIONS STUDIO II	3
	MATH 12002 ANALYTIC GEOMETRY AND CALCULUS I (KMCR) or MATH 12012 or CALCULUS WITH PRECALCULUS II (KMCR)	3-5
	Non-Architecture Electives	3
	Kent Core Requirement	3
	Kent Core Requirement	3
Credit Hours		15
Semester Three		
!	ARCH 10011 GLOBAL ARCHITECTURAL HISTORY I (KFA)	3
!	ARCH 20101 SECOND YEAR DESIGN STUDIO I	3
!	ARCH 20601 COMPUTER APPLICATIONS IN ARCHITECTURE I	2
!	PHY 13001 GENERAL COLLEGE PHYSICS I (KBS)	4
!	PHY 13021 GENERAL COLLEGE PHYSICS LABORATORY I (KBS) (KLAB)	1
	Kent Core Requirement	3
Credit Hours		16
Semester Four		
Requirement: Kent Core Composition courses (6 credit hours) must be completed.		
!	ARCH 10012 GLOBAL ARCHITECTURAL HISTORY II (KFA)	3
!	ARCH 20102 SECOND YEAR DESIGN STUDIO II	3
!	ARCH 20301 INTRODUCTION TO BUILDING STRUCTURES	3
!	ARCH 20602 COMPUTER APPLICATIONS IN ARCHITECTURE II	1
!	PHY 13012 COLLEGE PHYSICS II (KBS)	2
	Non-Architecture Electives	3
Credit Hours		15
Semester Five		
Requirements: minimum 2.250 GPA in ARCH courses, minimum overall 2.500 GPA. Note: no more than one deficiency in required major coursework listed in the first four semesters		
!	ARCH 30001 SITE DESIGN (WIC)	1
!	ARCH 30101 THIRD YEAR DESIGN STUDIO I	5
	ARCH 40301 STRUCTURAL SYSTEMS I	3
	ARCH 40401 METHODS AND MATERIALS I	3
	ARCH 40501 ENVIRONMENTAL TECHNOLOGY I	3
Credit Hours		15
Semester Six		
!	ARCH 30002 URBAN DESIGN	1
!	ARCH 30102 THIRD YEAR DESIGN STUDIO II (ELR)	5
	Architecture (ARCH) Upper-Division Electives (30000 or 40000 level)	9
Credit Hours		15

### Semester Seven

!	ARCH 40001 SUSTAINABLE DESIGN (WIC)	1
!	ARCH 40101 FOURTH YEAR DESIGN STUDIO I	5
!	ARCH 40402 METHODS AND MATERIALS II	3
!	ARCH 40502 ENVIRONMENTAL TECHNOLOGY II	3
	Non-Architecture Electives	3
Credit Hours		15

### Semester Eight

!	ARCH 40002 SYSTEMS DESIGN	1
!	ARCH 40102 INTEGRATED DESIGN STUDIO	5
!	ARCH 40302 STRUCTURAL SYSTEMS II	3
	Architectural History Elective	3
	Non-Architecture Electives	5
Credit Hours		17

Minimum Total Credit Hours: 124

## Architecture - M.Arch.

### College of Architecture and Environmental Design

Center for Architecture and Environmental Design

Kent Campus

330-672-2917

CAED\_info@kent.edu

www.kent.edu/caed

## Description

The Master of Architecture degree seeks to prepare graduates to lead in the field of architecture by stimulating the growth of technical knowledge and design creativity. The program fosters the refinement of design skills acquired in undergraduate programs. Master coursework affords opportunities for inquiry in architecture through the introduction of traditional scholarly research methods as well as approaches to research through design in a studio setting. Professional practice courses paired with Theory seminars and elective classes in areas of digital technology, building sciences, and history provide a comprehensive exposure to professional opportunities and a broad capacity for considering and postulating architecture in innovative ways.

Students may also pursue a dual degree program with the Master of Business Administration degree or with the Master of Urban Design degree.

### Fully Offered At:

- Kent Campus

## Accreditation

The M.ARC degree in Architecture is accredited by the National Architectural Accrediting Board (NAAB).

## Admission Requirements

- Bachelor's degree from an accredited college or university<sup>1</sup> for unconditional admission
- Minimum 3.000 undergraduate GPA on a 4.000 point scale for unconditional admission

- Official transcript(s)
  - GRE scores (or GMAT scores for the dual degree with the M.B.A.)
  - Goal statement (include intent and background information)
  - Portfolio, with design work clearly indicating role in group projects
  - Three letters of recommendation, with one letter from a non-academic source
  - English language proficiency - all international students must provide proof of English language proficiency (unless they meet specific exceptions) by earning one of the following:
    - Minimum 550 TOEFL PBT score (paper-based version)
    - Minimum 79 TOEFL IBT (Internet-based version)
    - Minimum 77 MELAB score
    - Minimum 6.5 IELTS score
    - Minimum 58 PTE score
    - Minimum 110 Duolingo test score
14. Develop an ability to compare and contrast the perspectives, values, customs and traditions of student's own culture from those held by other cultures.
  15. Develop and enhance student's writing skills.
  16. Understand the following professional practices: real estate and development, contract and planning law, leadership and ethics, office and finance management.
  17. Understand site.
  18. Understand the responsibility of the architect to elicit, understand and resolve the needs of the client.
  19. Develop an awareness of diverse cultures, ideals and beliefs.

For more information about graduate admissions, please visit the Graduate Studies website. For more information on international admission, visit the Office of Global Education's admission website.

<sup>1</sup> Applicants with a non-professional bachelor's degree or a pre-professional degree in architecture from another institution will have their prior education evaluated to determine if they meet student performance criteria as stipulated by the National Architectural Accrediting Board (NAAB). If deficient criteria or courses are recognized, the student may be required to complete additional courses to earn the degree. Determinations will be made by the program director and graduate coordinator at the time the student is admitted to the program.

## Program Learning Outcomes

Graduates of this program will be able to:

1. Increase level of intellectual discourse about architecture.
2. Demonstrate enhanced verbal, graphic and writing skills.
3. Develop and enhance student's research skills.
4. Develop and enhance problem-solving and reasoning skills; an ability to critically analyze information and fundamental design skills.
5. Understand the complexities of environmental design including both technical and theoretical components.
6. Develop management and leadership skills; verbal and graphic
7. Understand design and systems integration through a thesis or capstone experience through an array of professional practice and "field" related coursework.
8. Demonstrate the ability to think critically and to gather, record and apply relevant information.
9. Develop an awareness of and sensitivity to international cultures.
10. Understand different cultural perspectives, values, customs and traditions.
11. Understand western traditions.
12. Understand the principles of building programming, including assessment of user needs, review of precedents, an inventory of space requirements, site analysis and review of the relevant laws and standards.
13. Understand design principles and theories of urban design.

## Program Requirements

### Major Requirements

Code	Title	Credit Hours
<b>Major Requirements</b>		
ARCH 60101	GRADUATE DESIGN STUDIO I	6
ARCH 60102	GRADUATE DESIGN STUDIO II	4
ARCH 60103	GRADUATE DESIGN STUDIO III	9
ARCH 60150	PROJECT PROGRAMMING	3
ARCH 60301	THEORIES OF ARCHITECTURE	3
ARCH 60922	METHODS OF INQUIRY IN ARCHITECTURAL STUDIES	2
ARCH 65001	PROFESSIONAL PRACTICE: REAL ESTATE AND DEVELOPMENT	2
ARCH 65002	PROFESSIONAL PRACTICE: CONTRACT AND PLANNING LAW	2
ARCH 65003	PROFESSIONAL PRACTICE: LEADERSHIP, ETHICS AND OFFICE MANAGEMENT	3
ARCH 66995	SPECIAL TOPICS IN ARCHITECTURE	1
Electives <sup>1</sup>		9
Minimum Total Credit Hours:		44

<sup>1</sup> Elective credits may be taken from the offerings in the College of Architecture and Environmental Design, or from other Kent State colleges, schools or departments or from at the Levin College of Urban Affairs at Cleveland State University.

### Graduation Requirements

Time to completion for the degree typically is one to two years for students with an accredited pre-professional undergraduate degree in architecture. Students admitted without a pre-professional degree may be required to take additional courses, in addition to the requirements for the degree, to meet NAAB student performance criteria. Therefore, time for graduation may be three years with more than the listed credit hours.

## Dual Degree with M.B.A. degree in Business Administration

Students have the opportunity to complete a dual degree program with the M.Arch. degree in Architecture and the M.B.A. degree in Business Administration. A separate application must be submitted for each program. Students can view admission requirements for each program on their respective catalog page.

The dual degree combining a Master of Architecture (M.Arch.) with a Master of Business Administration (M.B.A.) is designed for architects or undergraduate architectural students who aspire to middle or executive management positions in architectural practices, or who are interested in starting their own business along with the preparation to enter the profession of architecture by stimulating the growth of technical knowledge and design creativity. It fosters the refinement of design skills acquired in undergraduate programs, also by offering a broad exposure to professional issues and knowledge.

### Dual Degree Requirements

Code	Title	Credit Hours
<b>Major Requirements</b>		
ACCT 63037	FINANCIAL ACCOUNTING FOR DECISION MAKING	2

ACCT 63038	MANAGERIAL ACCOUNTING FOR DECISION MAKING	2
ARCH 60101	GRADUATE DESIGN STUDIO I	6
ARCH 60102	GRADUATE DESIGN STUDIO II	4
ARCH 60103	GRADUATE DESIGN STUDIO III	9
ARCH 60150	PROJECT PROGRAMMING	3
ARCH 60301	THEORIES OF ARCHITECTURE	3
ARCH 60922	METHODS OF INQUIRY IN ARCHITECTURAL STUDIES	2
ARCH 65001	PROFESSIONAL PRACTICE: REAL ESTATE AND DEVELOPMENT	2
ARCH 65002	PROFESSIONAL PRACTICE: CONTRACT AND PLANNING LAW	2
ARCH 65003	PROFESSIONAL PRACTICE: LEADERSHIP, ETHICS AND OFFICE MANAGEMENT	3
ARCH 66995	SPECIAL TOPICS IN ARCHITECTURE <sup>1</sup>	1
ECON 62021	GLOBAL CONDITIONS AND MACROECONOMICS POLICY	2
ECON 62022	MANAGERIAL ECONOMICS	2
FIN 66060	MANAGERIAL FINANCE	2
MIS 64005	ANALYTICS FOR DECISION MAKING	2
MIS 64041	OPERATIONS, SERVICE AND SUPPLY CHAIN MANAGEMENT	2
MIS 64042	GLOBALIZATION AND TECHNOLOGY STRATEGY	2
MIS 64158	LEADERSHIP AND MANAGERIAL ASSESSMENT	2
MIS 64185	BUSINESS STRATEGY	3
MIS 64271	HUMAN RESOURCE MANAGEMENT	2
MIS 68051	BUSINESS PROFESSIONAL DEVELOPMENT I	1
MKTG 65051	MARKETING MANAGEMENT	2
Business Elective		3
Minimum Total Credit Hours:		64

<sup>1</sup> Topics in Professional Practice.

- Actual offerings and schedules vary from year to year and College of Architecture and Environmental Design (CAED) and College of Business Administration (COBA) will jointly provide a pre-approved recommended course of study. Students who wish to take a different course of study need to obtain separate approvals from CAED and COBA graduate coordinators. Contact the CAED graduate secretary for details on coursework registration.

### Graduation Requirements

Minimum of 64 credit hours, 35 from the M.Arch. program and 29 from the M.B.A. program.

## Dual Degree with M.U.D. degree in Urban Design

Student have the opportunity to complete a dual degree program with the M.U.D. degree in Urban Design and the M.Arch. degree in Architecture. A separate application must be submitted for each program. Students can view admission requirements for each program on their respective catalog page.

This dual degree program prepares students to enter the profession of architecture by stimulating the growth of technical knowledge and design creativity. It fosters the refinement of design skills acquired in



undergraduate programs and offers a broad exposure to professional issues and knowledge related to urban design.

## Dual Degree Requirements

Code	Title	Credit Hours
<b>Major Requirements</b>		
ARCH 60101	GRADUATE DESIGN STUDIO I	6
ARCH 60102	GRADUATE DESIGN STUDIO II	4
ARCH 60103	GRADUATE DESIGN STUDIO III	9
ARCH 60150	PROJECT PROGRAMMING	3
ARCH 60301	THEORIES OF ARCHITECTURE	3
ARCH 60922	METHODS OF INQUIRY IN ARCHITECTURAL STUDIES	2
ARCH 65001	PROFESSIONAL PRACTICE: REAL ESTATE AND DEVELOPMENT	2
ARCH 65002	PROFESSIONAL PRACTICE: CONTRACT AND PLANNING LAW	2
ARCH 65003	PROFESSIONAL PRACTICE: LEADERSHIP, ETHICS AND OFFICE MANAGEMENT	3
ARCH 66995	SPECIAL TOPICS IN ARCHITECTURE <sup>1</sup>	1
UD 55705	FORCES THAT SHAPE CITIES	3
UD 60703	URBAN DESIGN STUDIO III	6
UD 60705	MASTER PROJECT IN URBAN DESIGN PREPARATION	3
UD 65101	COMMUNITY DEVELOPMENT PROCESS	1
UD 65102	URBAN SYSTEMS	3
UD 65632	URBAN ECOLOGICAL SYSTEMS	3
UD 66995	SPECIAL TOPICS IN URBAN DESIGN	1
UST 623	Urban Development Finance (Cleveland State University) <sup>2</sup>	4
Electives <sup>3</sup>		11
Minimum Total Credit Hours:		70

<sup>1</sup> Special topics course in professional practice.

<sup>2</sup> This course is offered at the Levin College of Urban Affairs at Cleveland State University.

<sup>3</sup> These credits may be taken from the offerings in the College of Architecture and Environmental Design offerings, or from other Kent State college, school or department or from at the Levin College of Urban Affairs at Cleveland State University.

## Architecture and Environmental Design - M.S.

**College of Architecture and Environmental Design**  
Center for Architecture and Environmental Design  
Kent Campus  
330-672-2917  
CAED\_info@kent.edu  
www.kent.edu/caed

### Description

The Master of Science degree in Architecture and Environmental Design is a research-intensive program with one-year full residency requirement. The curriculum includes research methods, theories of architecture, thesis research, thesis and directed and free electives. The program is

best suited for individuals interested in pursuing a specialization in the built environment.

The program may be taken as a dual degree with the Master of Architecture degree.

### Fully Offered At:

- Kent Campus

## Admission Requirements

- Bachelor's degree in a professional or pre-professional environmental design program<sup>1</sup> for unconditional admission
- Minimum 3.200 undergraduate GPA on a 4.000 point scale for unconditional admission
- Official transcript(s)
- GRE scores
- Résumé
- Goal statement (two pages) that includes and outline of a proposed study program
- Portfolio for design and research work
- Three letters of recommendation
- English language proficiency - all international students must provide proof of English language proficiency (unless they meet specific exceptions) by earning one of the following:
  - Minimum 550 TOEFL PBT score (paper-based version)
  - Minimum 79 TOEFL IBT score (Internet-based version)
  - Minimum 77 MELAB score
  - Minimum 6.5 IELTS score
  - Minimum 58 PTE score
  - Minimum 110 Duolingo test score

For more information about graduate admissions, please visit the Graduate Studies website. For more information on international admission, visit the Office of Global Education's admission website.

<sup>1</sup> Conditional admission may be offered to applicants with undergraduate and graduate degrees in related disciplines.

<sup>2</sup> Applicants with a 3.0–3.19 GPA may be conditionally admitted on an individual case-by-case basis.

## Program Requirements

### Major requirements

Code	Title	Credit Hours
<b>Major Requirements</b>		
AED 60922	METHODS OF INQUIRY IN ARCHITECTURAL STUDIES	2
AED 60923	EMPIRICAL RESEARCH IN ENVIRONMENTAL DESIGN	1
AED 60930	APPLIED RESEARCH METHODS IN ARCHITECTURE AND ENVIRONMENTAL DESIGN	3
AED 66099	THESIS PREPARATION SEMINAR	2
AED 66199	THESIS I	6
ARCH 60301	THEORIES OF ARCHITECTURE	3
Directed Electives		12

Electives

6

Minimum Total Credit Hours:

35

Council for Construction Education of the Association of Technology Management and Applied Engineering (ATMAE).

## Construction Management - B.S.

### College of Architecture and Environmental Design

Center for Architecture and Environmental Design

Kent Campus

330-672-2917

CAED\_info@kent.edu

www.kent.edu/caed

## Description

The Bachelor of Science degree in Construction Management employs a professional-service approach that applies effective management techniques and oversight to the building and management of construction projects. Students learn the business of construction from inception to completion of a project—including emphasis on construction materials and methods—that will enable them to estimate costs, schedule work, oversee construction work-site activities and manage projects.

The Construction Management major includes the following optional concentrations:

- **Civil Management** concentration offers students an opportunity to further explore civil construction estimating functions, utility systems, soils, and subcontractor leadership. Focusing on the critical systems that are needed on all projects, this concentration will provide construction managers with the tools to navigate civil construction on any project.
- **Mechanical and Electrical Management** concentration offers students expertise in mechanical systems. By exposing students to sustainable building technologies, specific mechanical and electrical estimating, BIM, and leadership this concentration sets students apart in knowledge base and experience. Construction Managers are more effective with an in-depth understanding of critical MEP systems.
- **Safety Management** concentration is for those wishing to pursue a career in safety and/or construction managers looking to expand their knowledge in safety-related to construction. Students will take advanced OSHA and safety course while exposing them to insurance and workman's compensation laws and procedures. Safety is the #1 priority of project management teams, and this concentration looks to provide future leaders with the tools to lead a safe job site.

Cooperative education opportunities are available to students in construction companies and architect/engineering firms in the region. In addition, students have an opportunity to pursue a dual degree with the B.A. degree in Architectural Studies.

### Fully Offered At:

- Kent Campus

## Accreditation

The B.S. degree in Construction Management is accredited by the American Council for Construction Education (ACCE) and the American

## Admission Requirements

The university affirmatively strives to provide educational opportunities and access to students with varied backgrounds, those with special talents and adult students who graduated from high school three or more years ago.

**Freshman Students on the Kent Campus:** The freshman admission policy on the Kent Campus is selective. Admission decisions are based upon the following: cumulative grade point average, ACT and/or SAT scores, strength of high school college preparatory curriculum and grade trends. The Admissions Office at the Kent Campus may defer the admission of students who do not meet admissions criteria but who demonstrate areas of promise for successful college study. Deferred applicants may begin their college coursework at one of seven regional campuses of Kent State University. For more information on admissions, including additional requirements for some academic programs, visit the admissions website for new freshmen.

**Freshman Students on the Regional Campuses:** Kent State campuses at Ashtabula, East Liverpool, Geauga, Salem, Stark, Trumbull and Tuscarawas, as well as the Regional Academic Center in Twinsburg, have open enrollment admission for students who hold a high school diploma, GED or equivalent.

**English Language Proficiency Requirements for International Students:** All international students must provide proof of English language proficiency (unless they meet specific exceptions) by earning a minimum 525 TOEFL score (71 on the Internet-based version), minimum 75 MELAB score, minimum 6.0 IELTS score or minimum 48 PTE score, or by completing the ESL level 112 Intensive Program. For more information on international admission, visit the Office of Global Education's admission website.

**Transfer, Transitioning and Former Students:** For more information about admission criteria for transfer, transitioning and former students, please visit the admissions website.

## Program Learning Outcomes

Graduates of the program will be able to:

1. Understand construction materials, methods and processes.
2. Competently read and understand construction drawings and specifications.
3. Control and manage the scope of work for a construction jobsite.
4. Maintain a safe work environment.
5. Quantity takeoffs and cost estimates.
6. Understand the scheduling process and use computer software to create construction schedules.
7. Uphold ethical and professional standards.
8. Use critical thinking and problem-solving skills to analyze and perform functions within construction projects.
9. Communicate effectively to operate effectively in a construction management environment.
10. Understand construction laws, codes and regulations.

## University Requirements

All students in a bachelor's degree program at Kent State University must complete the following university requirements for graduation.

**NOTE:** University requirements may be fulfilled in this program by specific course requirements. Please see Program Requirements for details.

Destination Kent State: First Year Experience	1
Course is not required for students with 25 transfer credits, excluding College Credit Plus, or age 21+ at time of admission.	
Diversity Domestic/Global (DIVD/DIVG)	2 courses
Students must successfully complete one domestic and one global course, of which one must be from the Kent Core.	
Experiential Learning Requirement (ELR)	varies
Students must successfully complete one course or approved experience.	
Kent Core (see table below)	36-37
Writing-Intensive Course (WIC)	1 course
Students must earn a minimum C grade in the course.	
Upper-Division Requirement	39 (or 42)
Students must successfully complete 39 upper-division (numbered 30000 to 49999) credit hours to graduate. Students in a B.A. and/or B.S. degree in the College of Arts and Sciences must complete 42 upper-division credit hours.	
Total Credit Hour Requirement	120
Some bachelor's degrees require students to complete more than 120 credit hours.	

## Kent Core Requirements

Kent Core Composition (KCOMP)	6
Kent Core Mathematics and Critical Reasoning (KMCR)	3
Kent Core Humanities and Fine Arts (KHUM/KFA) (min one course each)	9
Kent Core Social Sciences (KSS) (must be from two disciplines)	6
Kent Core Basic Sciences (KBS/KLAB) (must include one laboratory)	6-7
Kent Core Additional (KADL)	6
<b>Total Credit Hours:</b>	<b>36-37</b>

## Program Requirements

### Major Requirements

Code	Title	Credit Hours
<b>Major Requirements (courses count in major GPA)</b>		
ARCH 10001	UNDERSTANDING ARCHITECTURE (KFA)	3
CMGT 10001	INTRODUCTION TO CONSTRUCTION MANAGEMENT	3
CMGT 11044	CONSTRUCTION SAFETY	3
CMGT 11071	CONSTRUCTION MATERIALS AND METHODS I	3
CMGT 21071	CONSTRUCTION MATERIALS AND METHODS II	3
CMGT 22200	CONSTRUCTION DOCUMENT READING <sup>1</sup>	3
CMGT 25000	PRINCIPLES OF L.E.E.D.	1
CMGT 31023	CONSTRUCTION SURVEYING	3
CMGT 31033	MECHANICAL SYSTEMS	3
CMGT 31040	ELECTRICAL SYSTEMS FOR CONSTRUCTION MANAGERS	3

CMGT 33092	CONSTRUCTION MANAGEMENT INTERNSHIP (ELR) (WIC) <sup>2</sup>	3
CMGT 41040	CONSTRUCTION ESTIMATING I	3
CMGT 41041	CONSTRUCTION ESTIMATING II	3
CMGT 42105	CONSTRUCTION CONTRACTS AND LAW	3
CMGT 42107	CONSTRUCTION SCHEDULING	3
CMGT 42110	CONSTRUCTION MANAGEMENT CAPSTONE	3
ENGR 27210	INTRODUCTION TO SUSTAINABILITY <sup>3</sup>	3
ENGR 33111	STATICS AND STRENGTH OF MATERIALS	3

<b>Additional Requirements (courses do not count in major GPA)</b>		
ACCT 23020	INTRODUCTION TO FINANCIAL ACCOUNTING	3
ECON 22060	PRINCIPLES OF MICROECONOMICS (KSS)	3
ECON 22061	PRINCIPLES OF MACROECONOMICS (KSS)	3
ENG 20002	INTRODUCTION TO TECHNICAL WRITING	3
FIN 26074	LEGAL ENVIRONMENT OF BUSINESS	3
MATH 11012	INTUITIVE CALCULUS (KMCR)	3
MATH 11022	TRIGONOMETRY (KMCR)	3
MGMT 24163	PRINCIPLES OF MANAGEMENT	3
MKTG 25010	PRINCIPLES OF MARKETING	3
PHY 13001	GENERAL COLLEGE PHYSICS I (KBS)	4
PHY 13021	GENERAL COLLEGE PHYSICS LABORATORY I (KBS) (KLAB)	1
UC 10097	DESTINATION KENT STATE: FIRST YEAR EXPERIENCE	1
Kent Core Composition		6
Kent Core Humanities and Fine Arts (minimum one course from each)		6
Kent Core Social Sciences		3
Kent Core Basic Sciences (total credit hours in this category must be 8 for this major)		3
General Electives (total credit hours depends on earning 120 credit hours, including 39 upper-division credit hours)		5

<b>Additional Requirements or Concentrations</b>		
Choose from the following:		12
Additional Requirements for Students Not Declaring a Concentration		
Civil Management concentration		
Mechanical and Electrical Management concentration		
Safety Management concentration		

Minimum Total Credit Hours: 120

- Students declaring a dual degree program with the B.A. in Architectural Studies major may substitute AED 10102 for CMGT 22200.
- A minimum C grade must be earned to fulfill the writing-intensive requirement.
- Students declaring a dual degree program with the B.A. in Architectural Studies may substitute ARCS 30421 for ENGR 27210.

### Additional Requirements for Students Not Declaring a Concentration

Code	Title	Credit Hours
<b>Additional Requirements (courses do not count in major GPA)</b>		
General Electives <sup>1</sup>		12

- Recommended FIN 36053 to complete the Business minor. Also recommended is COMM 15000.

## Civil Management Concentration Requirements

Code	Title	Credit Hours
<b>Concentration Requirements (courses count in major GPA)</b>		
CMGT 42053	SUBCONTRACTOR LEADERSHIP AND PRACTICES	3
CMGT 42054	CIVIL ESTIMATING	3
CMGT 42055	CIVIL UTILITY SYSTEMS	3
CMGT 42056	SOILS AND MATERIALS	3
Minimum Total Credit Hours:		12

## Mechanical and Electrical Management Concentration Requirements

Code	Title	Credit Hours
<b>Concentration Requirements (courses count in major GPA)</b>		
CMGT 42030	BUILDING INFORMATION MODELING FOR CONSTRUCTION MANAGERS	3
CMGT 42051	ALTERNATIVE ENERGY SYSTEMS IN BUILDING DESIGN	3
CMGT 42052	MECHANICAL AND ELECTRICAL ESTIMATING	3
CMGT 42053	SUBCONTRACTOR LEADERSHIP AND PRACTICES	3
Minimum Total Credit Hours:		12

## Safety Management Concentration Requirements

Code	Title	Credit Hours
<b>Concentration Requirements (courses count in major GPA)</b>		
Choose from the following:		12
CMGT 31044	ADVANCED CONSTRUCTION SAFETY AND MANAGEMENT	
CMGT 31045	CONSTRUCTION RISK MANAGEMENT	
CMGT 31046	INTRODUCTION TO INSURANCE AND WORKER'S COMPENSATION	
CMGT 41047	FUNDAMENTALS OF INDUSTRIAL AND CONSTRUCTION HYGIENE	
CMGT 41048	OCCUPATIONAL SAFETY AND HEALTH LAW	
Minimum Total Credit Hours:		12

## Graduation Requirements

Minimum Major GPA	Minimum Overall GPA
2.250	2.000

## Roadmap

This roadmap is a recommended semester-by-semester plan of study for this major. However, courses designated as critical (!) must be completed in the semester listed to ensure a timely graduation.

Semester One	Credits
ARCH 10001 UNDERSTANDING ARCHITECTURE (KFA)	3
CMGT 10001 INTRODUCTION TO CONSTRUCTION MANAGEMENT	3
MATH 11022 TRIGONOMETRY (KMCR)	3
UC 10097 DESTINATION KENT STATE: FIRST YEAR EXPERIENCE	1
Kent Core Requirement	3

Kent Core Requirement	3
Credit Hours	16
<b>Semester Two</b>	
CMGT 11044 CONSTRUCTION SAFETY	3
CMGT 11071 CONSTRUCTION MATERIALS AND METHODS I	3
CMGT 22200 CONSTRUCTION DOCUMENT READING	3
MATH 11012 INTUITIVE CALCULUS (KMCR)	3
Kent Core Requirement	3
Credit Hours	15
<b>Semester Three</b>	
ENG 20002 INTRODUCTION TO TECHNICAL WRITING	3
ENGR 27210 INTRODUCTION TO SUSTAINABILITY	3
Kent Core Requirement	3
Kent Core Requirement	3
Kent Core Requirement	3
Credit Hours	15
<b>Semester Four</b>	
CMGT 21071 CONSTRUCTION MATERIALS AND METHODS II	3
CMGT 25000 PRINCIPLES OF L.E.E.D.	1
ECON 22060 PRINCIPLES OF MICROECONOMICS (KSS)	3
PHY 13001 GENERAL COLLEGE PHYSICS I (KBS)	4
PHY 13021 GENERAL COLLEGE PHYSICS LABORATORY I (KBS) (KLAB)	1
General Elective	3
Credit Hours	15
<b>Semester Five</b>	
ACCT 23020 INTRODUCTION TO FINANCIAL ACCOUNTING	3
CMGT 31033 MECHANICAL SYSTEMS	3
CMGT 31023 CONSTRUCTION SURVEYING	3
CMGT 41040 CONSTRUCTION ESTIMATING I	3
ENGR 33111 STATICS AND STRENGTH OF MATERIALS	3
Credit Hours	15
<b>Semester Six</b>	
CMGT 31040 ELECTRICAL SYSTEMS FOR CONSTRUCTION MANAGERS	3
CMGT 41041 CONSTRUCTION ESTIMATING II	3
MGMT 24163 PRINCIPLES OF MANAGEMENT	3
MKTG 25010 PRINCIPLES OF MARKETING	3
Concentration Requirement or General Elective	3
Credit Hours	15
<b>Semester Seven</b>	
CMGT 33092 CONSTRUCTION MANAGEMENT INTERNSHIP (ELR) (WIC)	3
CMGT 42107 CONSTRUCTION SCHEDULING	3
ECON 22061 PRINCIPLES OF MACROECONOMICS (KSS)	3
FIN 26074 LEGAL ENVIRONMENT OF BUSINESS	3
Concentration Requirement or General Elective	3
Credit Hours	15
<b>Semester Eight</b>	
CMGT 42105 CONSTRUCTION CONTRACTS AND LAW	3
CMGT 42110 CONSTRUCTION MANAGEMENT CAPSTONE	3
Concentration Requirements or General Electives	8
Credit Hours	14
Minimum Total Credit Hours:	120

# Construction Management - M.S.

College of Architecture and Environmental Design  
Center for Architecture and Environmental Design  
Kent Campus  
330-672-2917  
CAED\_info@kent.edu  
www.kent.edu/caed

## Description

The Master of Science degree in Construction Management offers students a deep understanding of leading dynamic construction projects and organizations in the built environment. The program also offers a thesis or project option for those interested in a research and/or a future higher education role. Graduates of the program are prepared to lead at both the project and corporate level.

### Fully Offered At:

- Kent Campus

## Admission Requirements

- Bachelor's degree from an accredited college or university for unconditional admission
- Minimum 3.000 undergraduate GPA (on a 4.000 point scale) for unconditional admission
- Official transcript(s)
- Two letters of recommendation
- English language proficiency - all international students must provide proof of English language proficiency (unless they meet specific exceptions) by earning one of the following:
  - Minimum 525 TOEFL PBT score (paper-based version)
  - Minimum 71 TOEFL IBT score (Internet-based version)
  - Minimum 74 MELAB score
  - Minimum 6.0 IELTS score
  - Minimum 50 PTE score
  - Minimum 100 Duolingo test score

For more information about graduate admissions, please visit the Graduate Studies website. For more information on international admission, visit the Office of Global Education website.

## Program Learning Outcomes

Graduates of this program will be able to:

1. Exhibit the planning, organization, execution and contract skills of a construction manager.
2. Apply ethical and sustainability perspectives to construction management knowledge.
3. Demonstrate the financial, managerial and risk management of a leader in the construction industry.
4. Analyze how issues of cost, safety, quality, schedule and design impact project development and implementation.
5. Evaluate the procurement and logistics processes of underlying construction systems and devise strategies to mitigate these complexities.

6. Compare construction management technologies, innovations and processes, and how they relate to cross-disciplinary teams.

## Program Requirements

### Major Requirements

Code	Title	Credit Hours
<b>Major Requirements</b>		
AED 60922	METHODS OF INQUIRY IN ARCHITECTURAL STUDIES	2
AED 60923	EMPIRICAL RESEARCH IN ENVIRONMENTAL DESIGN	1
AED 60930	APPLIED RESEARCH METHODS IN ARCHITECTURE AND ENVIRONMENTAL DESIGN	3
CMGT 52105	CONSTRUCTION CONTRACTS AND LAW	3
CMGT 52107	CONSTRUCTION SCHEDULING	3
CMGT 52110	ADVANCED CONSTRUCTION MANAGEMENT	3
CMGT 62080	ADVANCED CONSTRUCTION RISK MANAGEMENT	3
Major Electives, choose from the following:		9
CMGT 51041	ADVANCED ESTIMATING	
CMGT 62030	BUILDING INFORMATION MODELING FOR CONSTRUCTION MANAGEMENT	
CMGT 62040	CONSTRUCTION METHODS IMPROVEMENTS	
CMGT 62050	INTERNATIONAL CONSTRUCTION MANAGEMENT	
CMGT 62060	NEGOTIATION IN THE BUILT ENVIRONMENT	
CMGT 62070	ENGINEERING ECONOMICS AND STRATEGIC DECISION MAKING	
CMGT 67320	APPLIED SUSTAINABILITY IN CONSTRUCTION MANAGEMENT	
Thesis or Project Option, choose from the following:		8
<i>Thesis Option</i>		
AED 66099	THESIS PREPARATION SEMINAR	
AED 66199	THESIS I	
<i>Project Option</i>		
CMGT 65099	MASTER PROJECT IN CONSTRUCTION MANAGEMENT <sup>1</sup>	
Graduate Electives <sup>2</sup>		
Minimum Total Credit Hours:		35

<sup>1</sup> Students who select the master's project are expected to demonstrate a summative understanding of their overall coursework. Students will be immersed in team settings and required to create a total company structure; estimate, schedule and complete risk assessment and sustainability goals for a proposed project; and develop a marketing plan and other expectations.

<sup>2</sup> Students who select the master's project will complete additional graduate-level courses to meet the minimum required credit hours for the degree. The courses will be part of the student's approved plan of study and should contribute to the master's project and the student's future goals. Students will be advised to take coursework in either construction management or a related field (e.g., architecture, business, healthcare design).

## Construction Management - Minor

College of Architecture and Environmental Design



Center for Architecture and Environmental Design  
 Kent Campus  
 330-672-2917  
 CAED\_info@kent.edu  
 www.kent.edu/caed

Kent Campus  
 330-672-2917  
 CAED\_info@kent.edu  
 www.kent.edu/caed

## Description

The Construction Management minor gives students an introduction to the body of knowledge expected for entry-level professional construction management positions. The minor is particularly appropriate for students whose major or interest is architecture, business or interior design.

### Fully Offered At:

- Kent Campus

## Admission Requirements

Admission to a minor is open to students declared in a bachelor's degree, the A.A.B. or A.A.S. degree or the A.T.S. degree (not Individualized Program major). Students declared only in the A.A. or A.S. degree or the A.T.S. degree in Individualized Program may not declare a minor. Students may not pursue a minor and a major in the same discipline.

## Minor Requirements

Code	Title	Credit Hours
<b>Minor Requirements</b>		
CMGT 41040	CONSTRUCTION ESTIMATING I	3
CMGT 41041	CONSTRUCTION ESTIMATING II	3
CMGT 42107	CONSTRUCTION SCHEDULING	3
CMGT 42110	CONSTRUCTION MANAGEMENT CAPSTONE	3
Minor Electives, choose from the following:		6
CMGT 10001	INTRODUCTION TO CONSTRUCTION MANAGEMENT	
CMGT 22200	CONSTRUCTION DOCUMENT READING	
CMGT 31015	CONSTRUCTION TECHNOLOGY	
CMGT 32001	PROPOSAL DEVELOPMENT AND ANALYSIS	
CMGT 42105	CONSTRUCTION CONTRACTS AND LAW	
Minimum Total Credit Hours:		18

## Graduation Requirements

Minimum Minor GPA	Minimum Overall GPA
2.500	2.000

- Minimum 6 credit hours in the minor must be upper-division coursework (30000 and 40000 level).
- Minimum 6 credit hours in the minor must be outside of the course requirements for any major or other minor the student is pursuing.
- Minimum 50 percent of the total credit hours for the minor must be taken at Kent State (in residence).

## Health Systems and Facilities Design - Graduate Certificate

College of Architecture and Environmental Design  
 Center for Architecture and Environmental Design

## Description

The Health Systems and Facilities Designs graduate certificate program enhances students understanding of how building design effects health care issues. Graduates of this program will be able to participate in facility management and design that will maximize efficiency of treatment and quality of patient care, all in an effort to raise the standard of health care.

Courses from the College of Architecture and Environmental Design, the College of Public Health and the College of Nursing comprise the program. The program is designed to meet the needs of working professionals who want to have a deeper understanding of health care design and other drivers of health care innovations, including public policy, reimbursement, emerging technologies and what patient-centered care really means from the perspective of patients and families. The program is appropriate for designers, clinicians, project managers, facility managers, nurse administrators and others.

Students are introduced to professionals in many different fields over the course of the program, expanding their horizons as well as their networks. Program courses provide students with background knowledge and theory, and also deal with behavioral science, health science, ethical and cultural issues in health care, codes and regulatory requirements, existing and emerging technologies and evidence-based design procedures which aid architects, administrators, planners and health care professionals to better meet the needs of end users – patients, families and staff.

### Fully Offered At:

- Online

## Admission Requirements

- Bachelor's degree (from any field)
- Official transcript(s)
- A resume/CV
- English language proficiency - all international students must provide proof of English language proficiency (unless they meet specific exceptions) by earning one of the following:
  - Minimum 550 TOEFL PBT score (paper-based version)
  - Minimum 79 TOEFL IBT score (Internet-based version)
  - Minimum 77 MELAB score
  - Minimum 6.5 IELTS score
  - Minimum 58 PTE score

For more information about graduate admissions, please visit the Graduate Studies website. For more information on international admission, visit the Office of Global Education's admission website.

## Program Requirements

### Certificate Requirements

Code	Title	Credit Hours
<b>Certificate Requirements</b>		
HCD 63001	EVIDENCE-BASED DESIGN IN HEALTHCARE	2
HCD 63002	HEALTHCARE FACILITIES	2
HCD 63003	ENVIRONMENTAL SYSTEMS AND MATERIALS IN HEALTHCARE	2
HCD 63004	ENVIRONMENTS OF CARE AND PATIENT POPULATIONS	2
HCD 63005	PATIENT SAFETY AND SYSTEMS THINKING	2
Certificate Electives, choose from the following:		2-3
ARCH 55640	DEVELOPING ENVIRONMENTS FOR OLDER ADULTS	
EHS 52018	ENVIRONMENTAL HEALTH CONCEPTS IN PUBLIC HEALTH	
HPM 52016	PUBLIC HEALTH ADMINISTRATION	
HPM 53003	HEALTH CARE SYSTEMS	
HPM 53004	PUBLIC HEALTH POLICY, LAW AND ETHICS	
HPM 53012	NATIONAL HEALTH REFORM	
NURS 60014	LEADERSHIP IN NURSING AND HEALTH CARE MANAGEMENT	
NURS 60020	LEGAL AND REGULATORY MANAGEMENT FOR NURSE ADMINISTRATORS	
NURS 60024	HEALTH CARE ORGANIZATION STRUCTURE AND BEHAVIOR	
SBS 54634	SOCIAL DETERMINANTS OF HEALTH BEHAVIORS	
Directed Electives <sup>1</sup>		
Minimum Total Credit Hours:		12

<sup>1</sup> Students may work with the coordinator of the program for additional elective choices.

### Graduation Requirements

Minimum Certificate GPA	Minimum Overall GPA
3.000	

## Healthcare Design - M.H.D.

**College of Architecture and Environmental Design**  
Center for Architecture and Environmental Design  
Kent Campus  
330-672-2917  
CAED\_info@kent.edu  
www.kent.edu/caed

### Description

The Master of Healthcare Design degree is a post-professional program focusing on the design and performance of health care environments for professionals with a demonstrated level of competency in their respective fields. Courses from the College of Architecture and Environmental Design, the College of Public Health and the College of Nursing comprise the program, which is open to individuals with a professional degree in a design field, including architecture, interiors, landscape or urban or graphic design.

The program is also designed for those professionals who want to have a deeper understanding of not just health care design, but of other drivers of health care innovations such as public policy, reimbursement, emerging technologies and what patient-centered care really means from the perspective of patients and families. The program typically takes two to three and a half years to complete, depending on course load.

Students are introduced to professionals in many different fields over the course of the program, expanding their horizons as well as their networks. Program courses provide students with background knowledge and theory, and also deal with behavioral science, health science, ethical and cultural issues in health care, codes and regulatory requirements, existing and emerging technologies and evidence-based design procedures that aid architects, administrators, planners and health care professionals to better meet the needs of end users, including patients, families and staff.

Following successful completion of coursework, students complete a master's project, which integrates learned principles and incorporates codified standards through an independently-directed design problem with the goal of improving designs for health care. There is both a written component and a design component based on a real project in a health care setting of the student's choice. Students will conduct a literature review and analysis, complete comparable site analyses, develop and conduct a research project in the setting and develop design solutions.

### Fully Offered At:

- Kent Campus

### Admission Requirements

- Accredited professional design degree for unconditional admission
- Minimum 3.000 undergraduate GPA on a 4.000 point scale for unconditional admission
- Official transcript(s)
- Résumé or curriculum vitae
- Goal statement
- Portfolio of design work that clearly delineates the role played by the applicant in team projects
- Three letters of recommendations, with one letter from a non-academic source
- English language proficiency requirements for international students:
  - Minimum 550 TOEFL PBT score
  - Minimum 79 TOEFL IBT score
  - Minimum 77 MELAB score
  - Minimum 6.5 IELTS score
  - Minimum 58 PTE score
  - Minimum 110 Duolingo test score

For more information about graduate admissions, please visit the Graduate Studies website. For more information on international admission, visit the Office of Global Education's admission website.

## Program Requirements

### Major Requirements

Code	Title	Credit Hours
<b>Major Requirements</b>		
HCD 60000	HEALTHCARE DESIGN STUDIO	6

HCD 60092	PRACTICAL EXPERIENCE	1
HCD 60100	HEALTHCARE SYSTEMS WORKSHOP	3
HCD 60101	HEALTHCARE DESIGN WORKSHOP: CULTURE AND ETHICS	3
HCD 63001	EVIDENCE-BASED DESIGN IN HEALTHCARE	2
HCD 63002	HEALTHCARE FACILITIES	2
HCD 63003	ENVIRONMENTAL SYSTEMS AND MATERIALS IN HEALTHCARE	2
HCD 63004	ENVIRONMENTS OF CARE AND PATIENT POPULATIONS	2
HCD 63005	PATIENT SAFETY AND SYSTEMS THINKING	2
Major Elective, choose from the following:		3
ARCH 55640	DEVELOPING ENVIRONMENTS FOR OLDER ADULTS	
EHS 50109	LABORATORY SAFETY AND HYGIENE	
EHS 52018	ENVIRONMENTAL HEALTH CONCEPTS IN PUBLIC HEALTH	
EHS 53012	OCCUPATIONAL SAFETY AND HEALTH	
EHS 53014	BUILT ENVIRONMENT AND PUBLIC HEALTH	
GERO 54032		
HPM 52016	PUBLIC HEALTH ADMINISTRATION	
HPM 53003	HEALTH CARE SYSTEMS	
HPM 53004	PUBLIC HEALTH POLICY, LAW AND ETHICS	
HPM 53012	NATIONAL HEALTH REFORM	
NURS 60014	LEADERSHIP IN NURSING AND HEALTH CARE MANAGEMENT	
NURS 60020	LEGAL AND REGULATORY MANAGEMENT FOR NURSE ADMINISTRATORS	
NURS 60024	HEALTH CARE ORGANIZATION STRUCTURE AND BEHAVIOR	
SBS 54634	SOCIAL DETERMINANTS OF HEALTH BEHAVIORS	
<i>Culminating Experience</i>		
HCD 60198	MASTER'S PROJECT IN HEALTHCARE DESIGN I	3
HCD 60298	MASTER'S PROJECT IN HEALTHCARE DESIGN II	6
Directed Electives <sup>1</sup>		
Minimum Total Credit Hours:		35

<sup>1</sup> Students may work with the coordinator of the program for additional elective choices.

## Historic Preservation - Minor

**College of Architecture and Environmental Design**  
Center for Architecture and Environmental Design  
Kent Campus  
330-672-2917  
CAED\_info@kent.edu  
www.kent.edu/caed

### Description

The Historic Preservation minor is intended for students who desire to understand the history, theory and practice of historic preservation. Students with a major or interest in any of the following may benefit from this minor: architectural studies, interior design, studio art, real estate, geography, history, art history and business.

### Fully Offered At:

- Kent Campus

## Admissions Requirements

Admission to a minor is open to students declared in a bachelor's degree, the A.A.B. or A.A.S. degree or the A.T.S. degree (not Individualized Program major). Students declared only in the A.A. or A.S. degree or the A.T.S. degree in Individualized Program may not declare a minor. Students may not pursue a minor and a major in the same discipline.

## Minor Requirements

Code	Title	Credit Hours
<b>Minor Requirements</b>		
ARCH 10011	GLOBAL ARCHITECTURAL HISTORY I (KFA)	3
ARCH 10012	GLOBAL ARCHITECTURAL HISTORY II (KFA)	3
ARCH 45213	20TH CENTURY ARCHITECTURAL HISTORY	3
ARCH 45220	AMERICAN ARCHITECTURE: COLONIAL TO 1900	3
ARCH 45620	INTRODUCTION TO PRESERVATION	3
ARCH 45625	EXPLORING HISTORIC STRUCTURES	3
ARCH 45627	PRESERVATION TECHNOLOGY	3
Minimum Total Credit Hours:		21

## Graduation Requirements

Minimum Minor GPA	Minimum Overall GPA
2.000	2.000

- Minimum 6 credit hours in the minor must be upper-division coursework (30000 and 40000 level).
- Minimum 6 credit hours in the minor must be outside of the course requirements for any major or other minor the student is pursuing.
- Minimum 50 percent of the total credit hours for the minor must be taken at Kent State (in residence).

## Interior Design - B.A.

**College of Architecture and Environmental Design**  
Center for Architecture and Environmental Design  
Kent Campus  
330-672-2917  
CAED\_info@kent.edu  
www.kent.edu/caed

### Description

The Bachelor of Arts in Interior Design degree seeks to exemplify design excellence, make interior spaces for human well-being, and to continually expand the reputation and rigor of the program. The program educates highly skilled and empathetic interior designers through a diverse curriculum that emphasizes research, creativity, professionalism, and leadership in an era of social and technological change. Competencies achieved in the program include fundamental design tempered with the application of research and creative inquiry; knowledge of materials, methods, and systems; space planning and programming; professional practice knowledge and critical thinking; gaining experiences through a guided internship; inquiry into human factors in design; and the

comprehensive designing of interior spaces with vigilance toward the health, safety, and welfare of the public.

The college offers a semester abroad for qualified third-year students in the Interior Design major. The study abroad program is housed in the heart of historic Florence, Italy. The program is open to all students who have made satisfactory progress toward completion of their undergraduate program.

Interior Design students may apply early to the Master of Healthcare Design degree and double count 9 credit hours of graduate courses toward both degree programs. See the Combined Bachelor's/Master's Degree Program policy in the University Catalog for more information.

### Fully Offered At:

- Kent Campus

## Accreditation

The B.A. degree in Interior Design is accredited by the Council for Interior Design Accreditation (CIDA) and the National Association of Schools of Art and Design (NASAD).

## Admission Requirements

The university affirmatively strives to provide educational opportunities and access to students with varied backgrounds, those with special talents and adult students who graduated from high school three or more years ago.

**Freshmen Students:** There is open admission to the Interior Design major, but early application is advised. For direct admission must have a minimum 2.75 overall high school grade point average and a minimum 22 ACT composite score or a minimum 1100 SAT total score.

**Admission to Non-Degree General major:** Students who do not qualify for admission to the Interior Design major may qualify for admissions to the college's non-degree General major. Students in the General major are assigned to freshman orientation classes with all College of Architecture and Environmental Design majors. These classes aid in understanding the broad range of career options within the environmental design professions. Students should take regular coursework in preparation to attempt entry into one of the College of Architecture and Environmental Design majors or may consider alternative degree program options. Students should meet with their advisors to aid in making decisions regarding their degree program and major. In order to move forward with a minimum loss of credit hours, it is strongly recommended that students in the General major, who were not accepted into a degree program, choose an alternate degree program within or outside the college prior to completing 45 credit hours.

**Transfer, Transitioning and Former Students:** For more information about admission criteria for transfer, transitioning and former students, please visit the admissions website.

### English Language Proficiency Requirements for International Students:

All international students must provide proof of English language proficiency (unless they meet specific exceptions) by earning a minimum 525 TOEFL score (71 on the Internet-based version), minimum 75 MELAB score, minimum 6.0 IELTS score or minimum 48 PTE Academic score, or by completing the ELS level 112 Intensive Program. For more information

on international admission, visit the Office of Global Education's admission website.

## Program Learning Outcomes

Graduates of this program will be able to:

1. Demonstrate necessary research skills and appropriate writing skills.
2. Demonstrate a comprehensive understanding of design and systems integration through studio coursework or capstone experience and participation in an array of professional practice and 'field' related coursework.

## University Requirements

All students in a bachelor's degree program at Kent State University must complete the following university requirements for graduation.

**NOTE:** University requirements may be fulfilled in this program by specific course requirements. Please see Program Requirements for details.

Destination Kent State: First Year Experience	1
Course is not required for students with 25 transfer credits, excluding College Credit Plus, or age 21+ at time of admission.	
Diversity Domestic/Global (DIVD/DIVG)	2 courses
Students must successfully complete one domestic and one global course, of which one must be from the Kent Core.	
Experiential Learning Requirement (ELR)	varies
Students must successfully complete one course or approved experience.	
Kent Core (see table below)	36-37
Writing-Intensive Course (WIC)	1 course
Students must earn a minimum C grade in the course.	
Upper-Division Requirement	39 (or 42)
Students must successfully complete 39 upper-division (numbered 30000 to 49999) credit hours to graduate. Students in a B.A. and/or B.S. degree in the College of Arts and Sciences must complete 42 upper-division credit hours.	
Total Credit Hour Requirement	120
Some bachelor's degrees require students to complete more than 120 credit hours.	

## Kent Core Requirements

Kent Core Composition (KCOMP)	6
Kent Core Mathematics and Critical Reasoning (KMCR)	3
Kent Core Humanities and Fine Arts (KHUM/KFA) (min one course each)	9
Kent Core Social Sciences (KSS) (must be from two disciplines)	6
Kent Core Basic Sciences (KBS/KLAB) (must include one laboratory)	6-7
Kent Core Additional (KADL)	6
<b>Total Credit Hours:</b>	<b>36-37</b>

## Program Requirements

### Major Requirements

Code	Title	Credit Hours
<b>Major Requirements (courses count in major GPA)</b>		
AED 10101	DESIGN FOUNDATIONS STUDIO I (min C grade)	3
AED 10102	DESIGN FOUNDATIONS STUDIO II (min C grade)	3
ARTH 22007	ART HISTORY: RENAISSANCE TO MODERN ART (KFA)	3
CMGT 31015	CONSTRUCTION TECHNOLOGY	3
ID 14011	INTRODUCTION TO INTERIOR DESIGN (min C grade)	1
ID 14012	DESIGN AND HUMAN BEHAVIOR (min C grade)	3
ID 24001	INTERIOR DESIGN STUDIO I-SPACE PLANNING AND HUMAN FACTORS (min C grade)	3
ID 24002	INTERIOR DESIGN STUDIO II-DETAILING AND FABRICATION (min C grade)	3
ID 24011	METHODS AND MATERIALS I: BUILDING SYSTEMS (min C grade)	3
ID 24012	CODES AND STANDARDS FOR INTERIOR DESIGN (min C grade)	3
ID 24013	HISTORY OF INTERIORS I-ANCIENT TO 15TH CENTURY (min C grade)	3
ID 24021	INTEGRATED DIGITAL APPLICATIONS I (min C grade)	3
ID 24022	3D MODELING AND RENDERING (min C grade)	2
ID 24023	FURNITURE DESIGN I-WOOD	3
ID 34001	INTERIOR DESIGN STUDIO III-LARGE SCALE PLANNING AND DOCUMENTATION (min C grade)	4
ID 34002	INTERIOR DESIGN STUDIO IV-GLOBAL AND HISTORICAL CONTEXT (min C grade)	4
ID 34010	DESIGN THEORY AND AESTHETICS (min C grade)	2
ID 34011	LIGHTING FOR INTERIOR SPACES (min C grade)	3
ID 34012	METHODS AND MATERIALS II-INTERIOR MATERIALS (min C grade)	3
ID 34013	INTERIOR DESIGN BUSINESS AND PROFESSIONAL PRACTICE (min C grade)	3
ID 34021	LIGHTING FOR INTERIOR SPACES LABORATORY (min C grade)	1
ID 34022	METHODS AND MATERIALS II-INTERIOR MATERIALS LABORATORY (min C grade)	1
ID 44001	INTERIOR DESIGN STUDIO V-SPECIALIZED FOCUS AND POPULATIONS (min C grade)	5
ID 44002	INTERIOR DESIGN STUDIO VI-COMMUNITY ENGAGEMENT (min C grade)	5
ID 44011	INTEGRATED DESIGN PRACTICE AND PROJECT MANAGEMENT (min C grade)	2
ID 44014	HISTORY OF INTERIORS II-16TH THROUGH 19TH CENTURY (min C grade)	3
ID 44015	HISTORY OF INTERIORS III-20TH CENTURY TO THE PRESENT (min C grade)	3
ID 44041	CURRENT ISSUES IN INTERIOR DESIGN (min C grade)	1
ID 44592	PROFESSIONAL INTERIOR DESIGN INTERNSHIP (ELR) (min C grade)	1
ID 44611	INTERIOR DESIGN RESEARCH AND PROGRAMMING (min C grade)	2

ID 44631	INQUIRY FOR EVIDENCE BASED DESIGN (WIC) (min C grade)	1
MKTG 25010	PRINCIPLES OF MARKETING	3
MKTG 45046 or MKTG 45082	PROFESSIONAL SELLING SERVICES MARKETING	3
VCD 17000	COLOR:THEORY AND APPLICATION (min C grade)	3
<b>Additional Requirements (courses do not count in major GPA)</b>		
COMM 15000	INTRODUCTION TO HUMAN COMMUNICATION (KADL)	3
ECON 22060	PRINCIPLES OF MICROECONOMICS (KSS)	3
MATH 11010	ALGEBRA FOR CALCULUS (KMCR)	3
PSYC 11762 or SOC 12050	GENERAL PSYCHOLOGY (DIVD) (KSS) INTRODUCTION TO SOCIOLOGY (DIVD) (KSS)	3
UC 10097	DESTINATION KENT STATE: FIRST YEAR EXPERIENCE	1
Kent Core Composition		6
Kent Core Humanities		3
Kent Core Humanities or Fine Arts		3
Kent Core Basic Sciences (must include one laboratory)		6-7
Kent Core Additional		3
Minimum Total Credit Hours:		126

### Progression Requirements

A minimum 2.500 overall GPA is required for advancement to the second year.

This professional program is based on both lecture and studio work. Because of this, the coursework requires the use of expendable materials. Interior Design majors are expected to purchase art supplies and materials beyond the regular textbooks.

### Graduation Requirements

Minimum Major GPA	Minimum Overall GPA
2.500	2.000



## Roadmap

This roadmap is a recommended semester-by-semester plan of study for this major. However, courses designated as critical (!) must be completed in the semester listed to ensure a timely graduation.

Semester One		Credits
!	AED 10101 DESIGN FOUNDATIONS STUDIO I	3
	ARTH 22007 ART HISTORY: RENAISSANCE TO MODERN ART (KFA)	3
!	ID 14011 INTRODUCTION TO INTERIOR DESIGN	1
	MATH 11010 ALGEBRA FOR CALCULUS (KMCR)	3
	PSYC 11762 GENERAL PSYCHOLOGY (DIVD) (KSS) or SOC 12050 or INTRODUCTION TO SOCIOLOGY (DIVD) (KSS)	3
	UC 10097 DESTINATION KENT STATE: FIRST YEAR EXPERIENCE	1
Credit Hours		14
Semester Two		
!	AED 10102 DESIGN FOUNDATIONS STUDIO II	3
	COMM 15000 INTRODUCTION TO HUMAN COMMUNICATION (KADL)	3
!	ID 14012 DESIGN AND HUMAN BEHAVIOR	3
Kent Core Requirement		3
Kent Core Requirement		3
Credit Hours		15
Semester Three		
Requirement: A minimum 2.500 cumulative GPA is required for advancement to the second year.		
!	ID 24001 INTERIOR DESIGN STUDIO I-SPACE PLANNING AND HUMAN FACTORS	3
!	ID 24012 CODES AND STANDARDS FOR INTERIOR DESIGN	3
!	ID 24021 INTEGRATED DIGITAL APPLICATIONS I	3
!	ID 24023 FURNITURE DESIGN I-WOOD	3
!	ID 34010 DESIGN THEORY AND AESTHETICS	2
!	VCD 17000 COLOR:THEORY AND APPLICATION	3
Credit Hours		17
Semester Four		
!	CMGT 31015 CONSTRUCTION TECHNOLOGY	3
!	ID 24002 INTERIOR DESIGN STUDIO II-DETAILING AND FABRICATION	3
!	ID 24011 METHODS AND MATERIALS I: BUILDING SYSTEMS	3
!	ID 24022 3D MODELING AND RENDERING	2
	ID 34013 INTERIOR DESIGN BUSINESS AND PROFESSIONAL PRACTICE	3
Kent Core Requirement		3
Credit Hours		17
Semester Five		
Requirement: Kent Core Composition courses (6 credit hours) must be completed.		
	ID 24013 HISTORY OF INTERIORS I-ANCIENT TO 15TH CENTURY	3
!	ID 34001 INTERIOR DESIGN STUDIO III-LARGE SCALE PLANNING AND DOCUMENTATION	4
!	ID 34011 LIGHTING FOR INTERIOR SPACES	3
!	ID 34012 METHODS AND MATERIALS II-INTERIOR MATERIALS	3
!	ID 34021 LIGHTING FOR INTERIOR SPACES LABORATORY	1

!	ID 34022 METHODS AND MATERIALS II-INTERIOR MATERIALS LABORATORY	1
Credit Hours		15
Semester Six		
!	ECON 22060 PRINCIPLES OF MICROECONOMICS (KSS)	3
!	ID 34002 INTERIOR DESIGN STUDIO IV-GLOBAL AND HISTORICAL CONTEXT	4
!	ID 44014 HISTORY OF INTERIORS II-16TH THROUGH 19TH CENTURY	3
!	ID 44611 INTERIOR DESIGN RESEARCH AND PROGRAMMING	2
!	ID 44631 INQUIRY FOR EVIDENCE BASED DESIGN (WIC)	1
Kent Core Requirement		3
Credit Hours		16
Semester Seven		
!	ID 44001 INTERIOR DESIGN STUDIO V-SPECIALIZED FOCUS AND POPULATIONS	5
!	ID 44011 INTEGRATED DESIGN PRACTICE AND PROJECT MANAGEMENT	2
!	ID 44015 HISTORY OF INTERIORS III-20TH CENTURY TO THE PRESENT	3
	MKTG 25010 PRINCIPLES OF MARKETING	3
Kent Core Requirement		3
Credit Hours		16
Semester Eight		
!	ID 44002 INTERIOR DESIGN STUDIO VI-COMMUNITY ENGAGEMENT	5
!	ID 44041 CURRENT ISSUES IN INTERIOR DESIGN	1
!	ID 44592 PROFESSIONAL INTERIOR DESIGN INTERNSHIP (ELR)	1
	MKTG 45046 PROFESSIONAL SELLING or MKTG 45082 or SERVICES MARKETING	3
Kent Core Requirement		3
Kent Core Requirement		3
Credit Hours		16
Minimum Total Credit Hours:		126

## Landscape Architecture - M.L.A. I

### College of Architecture and Environmental Design

Center for Architecture and Environmental Design

Kent Campus

330-672-2917

CAED\_info@kent.edu

www.kent.edu/caed

## Description

The Master of Landscape Architecture I degree in Landscape Architecture is a professional program that prepares graduates for active, creative, leadership roles in landscape architecture profession through inclusive and interdisciplinary design methodologies, focused on issues surrounding urban landscapes, ecologies and social concerns.

Students are engaged in issues ranging from hydrology in the Great Lakes – Ohio River Basins watershed to the role of urban landscapes associated with industrial cities and matters of global significance relating to the role of landscape and design relative to reclamation of

urban vacancies, infrastructural systems, natural resources, climate change, water quality for health and social justice, and cultural landscapes.

### Fully Offered At:

- Cleveland

## Accreditation

The M.L.A. I degree in Landscape Architecture has candidacy status for Landscape Architecture Accrediting Board (LAAB).

## Admission Requirements

- Bachelor's degree from an accredited college or university for unconditional admission
- Minimum 3.000 undergraduate GPA on a 4.000 point scale for unconditional admission
- Official transcript(s)
- GRE scores
- Curriculum vitae
- Goal statement
- Portfolio of design work
- Three letters of recommendation
- English language proficiency - all international students must provide proof of English language proficiency (unless they meet specific exceptions) by earning one of the following:
  - Minimum 550 TOEFL PBT score (paper-based version)
  - Minimum 79TOEFL IBT score (Internet-based version)
  - Minimum 77 MELAB score
  - Minimum 6.5 IELTS score
  - Minimum 58 PTE score
  - Minimum 110 Duolingo test score

For more information about graduate admissions, please visit the Graduate Studies admission website. For more information on international admission, visit the Office of Global Education's admission website.

## Program Learning Outcomes

Graduates of this program will be able to:

- Pursue careers in landscape architecture
- Synthesize higher-level learning necessary to practice landscape architecture; and develop critical understanding through increased independent, collaborative, interdisciplinary, and course-based research.
- Establish a design process that is firmly based upon research, technology and artistic expression.
- Appraise and understand geo-cultural differences and develop skills to engage local phenomena.

## Program Requirements

### Major Requirements

Code	Title	Credit Hours
<b>Major Requirements</b>		
LARC 50100	DESIGN VISUALIZATION	3
LARC 50101	LANDSCAPE ARCHITECTURE STUDIO I	6
LARC 50102	LANDSCAPE ARCHITECTURE STUDIO II	6
LARC 60103	LANDSCAPE ARCHITECTURE STUDIO III	6
LARC 60104	LANDSCAPE ARCHITECTURE STUDIO IV	6
LARC 60105	LANDSCAPE ARCHITECTURE STUDIO V	6
LARC 60106	LANDSCAPE ARCHITECTURE STUDIO VI	6
LARC 60111	LANDSCAPE HISTORY AND THEORY	3
LARC 60301	SITE ENGINEERING	3
LARC 60401	LANDSCAPE ARCHITECTURE CONSTRUCTION METHODS	3
LARC 65003	PROFESSIONAL PRACTICE: LEADERSHIP, ETHICS AND OFFICE MANAGEMENT	3
LARC 60601	PLANTS AND PLANTED FORM	3
LARC 60602	URBAN ECOLOGICAL SYSTEMS	3
LARC 60922	METHODS OF INQUIRY IN ARCHITECTURAL STUDIES	2
LARC 60923	EMPIRICAL RESEARCH IN ENVIRONMENTAL DESIGN	1
Cognate Electives, choose from the following:		12
ARCH 55291	SEMINAR: VARIABLE TOPICS IN ARCHITECTURAL HISTORY	
BSCI 50162	SOIL BIOLOGY	
BSCI 50170	STREAM BIOLOGY	
BSCI 50364	LIMNOLOGY	
BSCI 50368	WETLAND ECOLOGY AND MANAGEMENT	
BSCI 50372	COMMUNITIES AND ECOSYSTEMS	
BSCI 50374	CONSERVATION BIOLOGY	
BSCI 50375	ENVIRONMENTAL BIOLOGY AND MANAGEMENT	
BSCI 50525	WILDLIFE RESOURCES	
BSCI 60080	EXPERIMENTAL METHODS IN BIOLOGY	
BSCI 60391	SEMINAR IN ECOLOGY	
EHS 52018	ENVIRONMENTAL HEALTH CONCEPTS IN PUBLIC HEALTH	
EHS 53009	EMERGING ENVIRONMENTAL HEALTH ISSUES AND RESPONSE	
GEOG 51066	GLOBAL CLIMATE CHANGE	
GEOG 51073	CONSERVATION OF OUR NATURAL RESOURCES	
GEOG 51074	RESOURCE GEOGRAPHY	
GEOG 51082	GEOGRAPHY OF SOILS	
GEOG 52052	MEDICAL GEOGRAPHY	
GEOG 54010	GEOGRAPHIES OF GLOBAL DEVELOPMENT	
GEOG 54070	SPATIAL ANALYSIS AND LOCATION THEORY	
GEOG 55085	URBAN TRANSPORTATION	
GEOG 56070	URBAN AND REGIONAL PLANNING	
GEOG 59070	GEOGRAPHIC INFORMATION SCIENCE	
GEOG 59076	SPATIAL PROGRAMMING	
GEOG 59080	ADVANCED GEOGRAPHIC INFORMATION SCIENCE	
GEOG 59162	CARTOGRAPHY	

GEOG 59230	REMOTE SENSING
GEOG 60191	SEMINAR IN TOPICAL GEOGRAPHY
GEOG 60800	SEMINAR IN THE DEVELOPMENT OF GEOGRAPHIC THOUGHT
GEOG 62062	BEHAVIORAL GEOGRAPHY
GEOG 69004	QUANTITATIVE METHODS IN GEOGRAPHY
GEOG 69701	RESEARCH AND PRESENTATION OF GEOGRAPHIC DATA
GEOL 51073	GEOLOGY OF OHIO
GEOL 51077	GEOLOGY OF THE NATIONAL PARKS
GEOL 52067	INTRODUCTORY HYDROGEOLOGY
GEOL 62011	HYDROLOGY
GEOL 62068	ADVANCED HYDROGEOLOGY
GEOL 62082	INTRODUCTION TO SOIL MECHANICS
HCD 63002	HEALTHCARE FACILITIES
HCD 63003	ENVIRONMENTAL SYSTEMS AND MATERIALS IN HEALTHCARE
UD 55705	FORCES THAT SHAPE CITIES
RPTM 56070	PARK PLANNING
UD 65101	COMMUNITY DEVELOPMENT PROCESS
UD 65102	URBAN SYSTEMS
UD 65632	URBAN ECOLOGICAL SYSTEMS
UD 66995	SPECIAL TOPICS IN URBAN DESIGN

Minimum Total Credit Hours:

72

## Landscape Architecture - M.L.A. II

### College of Architecture and Environmental Design

Center for Architecture and Environmental Design

Kent Campus

330-672-2917

CAED\_info@kent.edu

www.kent.edu/caed

## Description

The Master of Landscape Architecture II degree in Landscape Architecture is a post-professional program intended for students to develop new knowledge through research and design, and to provide professionals with the opportunity for specialization in an area of their choosing.

Students are engaged in issues ranging from hydrology in the Great Lakes – Ohio River Basins watershed to the role of urban landscapes associated with industrial cities and matters of global significance relating to the role of landscape and design relative to reclamation of urban vacancies, infrastructural systems, natural resources, climate change, water quality for health and social justice, and cultural landscapes. Individual capstone research or advanced design studios comprise the second year of study.

### Fully Offered At:

- Cleveland

## Admission Requirements

- Bachelor of Landscape Architecture degree that is accredited by the Landscape Architecture Accrediting Board (LAAB) for unconditional admission
- Minimum 3.000 undergraduate GPA on a 4.000 point scale for unconditional admission
- Official transcript(s)
- GRE scores
- Curriculum vitae
- Goal statement
- Portfolio of design work
- Three letters of recommendation
- English language proficiency - all international students must provide proof of English language proficiency (unless they meet specific exceptions) by earning one of the following:
  - Minimum 550 TOEFL PBT score (paper-based version)
  - Minimum 79 TOEFL IBT score (Internet-based version)
  - Minimum 77 MELAB score
  - Minimum 6.5 IELTS score
  - Minimum 58 PTE score
  - Minimum 110 Duolingo test score

For more information about graduate admissions, please visit the Graduate Studies admission website. For more information on international admission, visit the Office of Global Education's admission website.

## Program Learning Outcomes

Graduates of this program will be able to:

- Synthesize higher level learning necessary to practice landscape architecture; and develop critical understanding through increased independent, collaborative, interdisciplinary, and course-based research.

## Program Requirements

### Major Requirements

Code	Title	Credit Hours
<b>Major Requirements</b>		
LARC 60103	LANDSCAPE ARCHITECTURE STUDIO III	6
LARC 60104	LANDSCAPE ARCHITECTURE STUDIO IV	6
LARC 60105	LANDSCAPE ARCHITECTURE STUDIO V	6
LARC 60106	LANDSCAPE ARCHITECTURE STUDIO VI	6
LARC 60922	METHODS OF INQUIRY IN ARCHITECTURAL STUDIES	2
LARC 60923	EMPIRICAL RESEARCH IN ENVIRONMENTAL DESIGN	1
Cognate Electives, choose from the following:		33
ARCH 55291	SEMINAR: VARIABLE TOPICS IN ARCHITECTURAL HISTORY	
BSCI 50162	SOIL BIOLOGY	
BSCI 50170	STREAM BIOLOGY	
BSCI 50364	LIMNOLOGY	
BSCI 50368	WETLAND ECOLOGY AND MANAGEMENT	
BSCI 50372	COMMUNITIES AND ECOSYSTEMS	

BSCI 50374	CONSERVATION BIOLOGY
BSCI 50375	ENVIRONMENTAL BIOLOGY AND MANAGEMENT
BSCI 50525	WILDLIFE RESOURCES
BSCI 60080	EXPERIMENTAL METHODS IN BIOLOGY
BSCI 60391	SEMINAR IN ECOLOGY
EHS 52018	ENVIRONMENTAL HEALTH CONCEPTS IN PUBLIC HEALTH
EHS 53009	EMERGING ENVIRONMENTAL HEALTH ISSUES AND RESPONSE
GEOG 51066	GLOBAL CLIMATE CHANGE
GEOG 51073	CONSERVATION OF OUR NATURAL RESOURCES
GEOG 51074	RESOURCE GEOGRAPHY
GEOG 51082	GEOGRAPHY OF SOILS
GEOG 52052	MEDICAL GEOGRAPHY
GEOG 54010	GEOGRAPHIES OF GLOBAL DEVELOPMENT
GEOG 54070	SPATIAL ANALYSIS AND LOCATION THEORY
GEOG 55085	URBAN TRANSPORTATION
GEOG 56070	URBAN AND REGIONAL PLANNING
GEOG 59070	GEOGRAPHIC INFORMATION SCIENCE
GEOG 59076	SPATIAL PROGRAMMING
GEOG 59080	ADVANCED GEOGRAPHIC INFORMATION SCIENCE
GEOG 59162	CARTOGRAPHY
GEOG 59230	REMOTE SENSING
GEOG 60191	SEMINAR IN TOPICAL GEOGRAPHY
GEOG 60800	SEMINAR IN THE DEVELOPMENT OF GEOGRAPHIC THOUGHT
GEOG 62062	BEHAVIORAL GEOGRAPHY
GEOG 69004	QUANTITATIVE METHODS IN GEOGRAPHY
GEOG 69701	RESEARCH AND PRESENTATION OF GEOGRAPHIC DATA
GEOL 51073	GEOLOGY OF OHIO
GEOL 51077	GEOLOGY OF THE NATIONAL PARKS
GEOL 52067	INTRODUCTORY HYDROGEOLOGY
GEOL 62011	HYDROLOGY
GEOL 62068	ADVANCED HYDROGEOLOGY
GEOL 62082	INTRODUCTION TO SOIL MECHANICS
RPTM 56070	PARK PLANNING
UD 55705	FORCES THAT SHAPE CITIES
UD 65101	COMMUNITY DEVELOPMENT PROCESS
UD 65102	URBAN SYSTEMS
UD 65632	URBAN ECOLOGICAL SYSTEMS
UD 66995	SPECIAL TOPICS IN URBAN DESIGN

Minimum Total Credit Hours:

60

## Urban Design - M.U.D.

**College of Architecture and Environmental Design**  
 Center for Architecture and Environmental Design  
 Kent Campus  
 330-672-2917  
 CAED\_info@kent.edu  
 www.kent.edu/caed

## Description

The Master of Urban Design degree expands on traditional architectural, landscape architecture and planning education with an understanding of the processes of urban development, and with the skills required to the physical shaping of urban places. The degree seeks to develop knowledgeable specialists who possess significant ability to identify opportunities in the urban environment and the sensibility to provide for design solutions to the most complex problems encountered.

Faculty work in close collaboration with students through rigorous curricula focused on the application of research in the design of layered and mutually reinforcing systems and public spaces.

Projects range from neighborhood plans to large scale urban and regional initiatives engaging cultural and environmental concerns. Project locations are often in Cleveland and similar regional cities, but they address far-reaching global concerns. Students can engage in applied research in the re-design of "Cities Growing Smaller," systemic approaches to the development of urban environments, considerations of place and identity and the place-making potential of infrastructure. Further directions include the design of cities and neighborhoods that promote physical and mental health, studies of sustainable infrastructures that support sustainable ecological systems, the adaptation of traditional models of urbanism to changing conditions, and the future of urban economies as it relates to physical place-making.

## Fully Offered At:

- Cleveland

## Admission Requirements

- Bachelor's degree from an accredited college or university for unconditional admission
- Minimum 3.000 undergraduate GPA on a 4.000 point scale for unconditional admission
- Official transcript(s)
- GRE scores
- Goal statement (include intent and background information)
- Portfolio (design work should clearly indicate role in group projects)
- Three letters of recommendation, with one letter from a non-academic source
- English language proficiency - all international students must provide proof of English language proficiency (unless they meet specific exceptions) by earning one of the following:
  - Minimum 550 TOEFL PBT score (paper-based version)
  - Minimum 79 TOEFL IBT score (Internet-based version)
  - Minimum 77 MELAB score
  - Minimum 6.5 IELTS score
  - Minimum 58 PTE score
  - Minimum 110 Duolingo test score

For more information about graduate admissions, please visit the Graduate Studies website. For more information on international admission, visit the Office of Global Education's admission website.

## Program Learning Outcomes

Graduates of this program will be able to:

- Demonstrate the ability to build abstract relationships and understand the impact of ideas based on research and analysis of multiple theoretical, social, political, economic, cultural and environmental contexts. This includes the wider range of media used to think about urban and regional design, including writing, investigative skills, speaking, drawing and model making.
- Develop an ability to utilize the technical instruments of the urban design field including: legal instruments, urban systems and their organization, the role of these varied elements in the implementation of design and their impact on the environment. This is inclusive of understanding and abilities at a range of scales from local to regional design and the implications of policy and design decision making at these ranges of scale.
- Manage, advocate and act legally, ethically and critically for the good of society and the public. This includes collaborative, professional and leadership skills, especially in the public arena.

## Program Requirements

### Major Requirements

Code	Title	Credit Hours
<b>Major Requirements</b>		
ARCH 65001	PROFESSIONAL PRACTICE: REAL ESTATE AND DEVELOPMENT	2
UD 55705	FORCES THAT SHAPE CITIES	3
UD 60703	URBAN DESIGN STUDIO III	6
UD 60705	MASTER PROJECT IN URBAN DESIGN PREPARATION	3
UD 60798	MASTERS PROJECT IN URBAN DESIGN	9
UD 65101	COMMUNITY DEVELOPMENT PROCESS	1
UD 65102	URBAN SYSTEMS	3
UD 65632	URBAN ECOLOGICAL SYSTEMS	3
UD 66995	SPECIAL TOPICS IN URBAN DESIGN	1
Electives <sup>1</sup>		3
Minimum Total Credit Hours:		34

<sup>1</sup> Elective credits may be taken from the offerings in the College of Architecture and Environmental Design, or from other Kent State colleges, schools or departments or from at the Levin College of Urban Affairs at Cleveland State University.

## Dual Degree with M.Arch. degree in Architecture

Students have the opportunity to complete a dual degree program with the M.U.D. degree in Urban Design and the M.Arch. degree in Architecture. A separate application must be submitted for each program. Students can view admission requirements for each program on their respective catalog page.

This dual degree program prepares students to enter the profession of architecture by stimulating the growth of technical knowledge and design creativity. It fosters the refinement of design skills acquired in undergraduate programs and offers a broad exposure to professional issues and knowledge related to urban design.

## Dual Degree Requirements

Code	Title	Credit Hours
<b>Major Requirements</b>		
ARCH 60101	GRADUATE DESIGN STUDIO I	6
ARCH 60102	GRADUATE DESIGN STUDIO II	4
ARCH 60103	GRADUATE DESIGN STUDIO III	9
ARCH 60150	PROJECT PROGRAMMING	3
ARCH 60301	THEORIES OF ARCHITECTURE	3
ARCH 60922	METHODS OF INQUIRY IN ARCHITECTURAL STUDIES	2
ARCH 65001	PROFESSIONAL PRACTICE: REAL ESTATE AND DEVELOPMENT	2
ARCH 65002	PROFESSIONAL PRACTICE: CONTRACT AND PLANNING LAW	2
ARCH 65003	PROFESSIONAL PRACTICE: LEADERSHIP, ETHICS AND OFFICE MANAGEMENT	3
ARCH 66995	SPECIAL TOPICS IN ARCHITECTURE <sup>1</sup>	1
UD 55705	FORCES THAT SHAPE CITIES	3
UD 60703	URBAN DESIGN STUDIO III	6
UD 60705	MASTER PROJECT IN URBAN DESIGN PREPARATION	3
UD 65101	COMMUNITY DEVELOPMENT PROCESS	1
UD 65102	URBAN SYSTEMS	3
UD 65632	URBAN ECOLOGICAL SYSTEMS	3
UD 66995	SPECIAL TOPICS IN URBAN DESIGN	1
UST 623 Urban Development Finance (Cleveland State University) <sup>2</sup>		4
Electives <sup>3</sup>		11
Minimum Total Credit Hours:		70

<sup>1</sup> Special topics course in professional practice.

<sup>2</sup> This course is offered at the Levin College of Urban Affairs at Cleveland State University.

<sup>3</sup> These credits may be taken from the offerings in the College of Architecture and Environmental Design offerings, or from other Kent State college, school or department or from at the Levin College of Urban Affairs at Cleveland State University.

## College of Arts and Sciences

### College of Arts and Sciences

104 Bowman Hall  
Kent Campus  
[www.kent.edu/cas](http://www.kent.edu/cas)

### Academic Advising Office

Undergraduate  
105 Bowman Hall  
Kent Campus  
330-672-2062  
[ASAdvise@kent.edu](mailto:ASAdvise@kent.edu)  
[www.kent.edu/cas/advising](http://www.kent.edu/cas/advising)

### Graduate Affairs

108 Bowman Hall  
Kent Campus  
330-672-8964  
[ASAdvise@kent.edu](mailto:ASAdvise@kent.edu)



[www.kent.edu/cas/graduate-affairs](http://www.kent.edu/cas/graduate-affairs)

## The Mission of the College

It is the mission of the College of Arts and Sciences to deliver a first-rate education dedicated to the traditions and values of the liberal arts. These traditions include developing the skills of critical reasoning, writing, reading and deduction and providing a firm grounding in the theories and methodologies of the humanities, social and natural sciences and mathematics. These values include a commitment to rigorous questioning of principles and practices, intellectual integrity, community responsibility and diversity of perspectives in the pursuit of truth and social justice. Fundamental to a liberal education is the acquisition, preservation and transmission of new ideas and knowledge. Study within the College of Arts and Sciences broadens and enriches students' intellectual and cultural background. The College provides a core curriculum for all students whatever their major fields or career goals. With specialized and interdisciplinary programs at the undergraduate and graduate levels, the College strives to offer a wide variety of learning and research opportunities to its students, guided by nationally and internationally renowned faculty—faculty as passionate and intent on adding to human understanding as they are to passing this understanding on to future generations. The liberal arts provide both a rich variety of fields of academic specialization and a vital base for professional, creative and technological study.

Students pursuing degrees in the College of Arts and Sciences are introduced to a variety of disciplinary and intellectual perspectives through the College's General Requirements. These requirements provide a solid foundation in essential communications skills and mathematics; a strong and varied background in the humanities, the social sciences and the natural sciences; and, for most students, study of a foreign language as a tool for approaching another culture. These requirements thus supply a broad acquaintance with the traditional liberal arts and a firm basis for more specialized study.

All students in the College select at least one area of academic specialization. This area of specialization may be within one of the traditional disciplines, it may be interdisciplinary or it may be self-designed. Students may also pursue a second major area or one or more minor areas of specialization.

In addition to general requirements and the specific requirements within the areas of specialization, students have elective credit hours that may be used to pursue secondary areas of specialization, to explore areas of general interest or to take additional coursework within the area of specialization or in related areas. Elective coursework in the liberal arts provides not only a sound basis for more specialized learning but also intellectual enrichment that is of lasting value to any student in the university.

Study in the liberal arts provides a basis for success in a wide variety of careers. In addition to preparing students for later professional study, it provides communication skills, analytical tools and mental flexibility necessary for success in adapting to changing careers in a changing world. Above all, study in the liberal arts prepares students for a lifetime of learning experiences and for personal and intellectual as well as professional growth.

## Departments and Schools

- Center for Comparative and Integrative Programs
- Center for the Study of Gender and Sexuality

- Department of Anthropology
- Department of Biological Sciences
- Department of Chemistry and Biochemistry
- Department of Computer Science
- Department of English
- Department of Geography
- Department of Geology
- Department of History
- Department of Mathematical Sciences
- Department of Modern and Classical Language Studies
- Department of Pan-African Studies
- Department of Philosophy
- Department of Physics
- Department of Political Science
- Department of Psychological Sciences
- Department of Sociology
- School of Biomedical Sciences
- School of Peace and Conflict Studies

## Undergraduate Programs

- Actuarial Mathematics - B.S.
- American Sign Language - B.A.
- Anthropology - B.A.
- Anthropology - B.S.
- Applied Mathematics - B.S.
- Biology - B.A.
- Biology - B.S.
- Biotechnology - B.S.
- Botany - B.S.
- Chemistry - B.A.
- Chemistry - B.S.
- Classics - B.A.
- Computer Science - B.A.
- Computer Science - B.S.
- Criminology and Justice Studies - B.A.
- Earth Science - B.A.
- Economics - B.A.
- English - B.A.
- Environmental and Conservation Biology - B.S.
- Environmental Studies - B.A.
- French - B.A.
- Geography - B.A.
- Geology - B.A.
- Geology - B.S.
- German - B.A.
- History - B.A.
- Integrated Life Sciences - B.S./M.D.
- Integrative Studies - B.I.S.
- International Relations - B.A.
- Mathematics - B.A.
- Mathematics - B.S.
- Medical Technology - B.S.

- Neuroscience - B.S.
- Pan-African Studies - B.A.
- Paralegal Studies - B.A.
- Peace and Conflict Studies - B.A.
- Philosophy - B.A.
- Physics - B.A.
- Physics - B.S.
- Political Science - B.A.
- Psychology - B.A.
- Psychology - B.S.
- Russian Literature, Culture and Translation - B.A.
- Sociology - B.A.
- Spanish - B.A.
- Teaching English as a Second Language - B.A.
- Translation - B.S.
- Zoology - B.S.

## Minors

- African Studies
- American Sign Language
- Ancient, Medieval and Renaissance Studies
- Anthropology
- Applied Mathematics
- Applied Statistics
- Arabic
- Biological Sciences
- Business French
- Business German
- Business Russian
- Business Spanish
- Chemistry
- Chinese
- Classics
- Climate Change
- Computer Science
- Criminology and Justice Studies
- Creative Writing
- Earth Science
- English
- Environmental Geology
- Environmental Studies
- French
- Forensic Anthropology
- Geographic Information Science
- Geography
- Geology
- German
- German Studies
- Greek
- Health Care Ethics
- History
- History and Philosophy of Science

- Italian
- Italian Studies
- Japanese
- Jewish Studies
- Latin
- Latin American Studies
- Lesbian, Gay, Bisexual, Transgender and Queer Studies
- Mathematics
- Medical Anthropology
- Paleontology
- Pan-African Studies
- Paralegal Studies
- Peace and Conflict Studies
- Philosophy
- Physics
- Political Science
- Pre-Law
- Professional And Technical Writing
- Psychology
- Religion Studies
- Russian
- Russian Studies
- Sociology
- Spanish
- Studies in Globalization, Identity and Space
- Urban Studies
- Women's Studies
- World Literature and Cultures

## Graduate Programs

- Anthropology - M.A.
- Applied Geology - Ph.D.
- Applied Mathematics - M.A.
- Applied Mathematics - M.S.
- Applied Mathematics - Ph.D.
- Biological Sciences - Botany - M.S.
- Biological Sciences - Botany - Ph.D.
- Biological Sciences - Cell Biology and Molecular Genetics - M.S.
- Biological Sciences - Cell Biology and Molecular Genetics - Ph.D.
- Biological Sciences - Ecology and Evolutionary Biology - M.S.
- Biological Sciences - Ecology and Evolutionary Biology - Ph.D.
- Biological Sciences - Integrative Physiology and Neurobiology - M.S.
- Biological Sciences - Integrative Physiology and Neurobiology - Ph.D.
- Biology - M.A.
- Biology - M.S.
- Biomedical Sciences - Cellular and Molecular Biology - M.S.
- Biomedical Sciences - Cellular and Molecular Biology - Ph.D.
- Biomedical Sciences - Human Evolutionary Biology - Ph.D.
- Biomedical Sciences - Neurosciences - M.S.
- Biomedical Sciences - Neurosciences - Ph.D.
- Biomedical Sciences - Pharmacology - M.S.
- Biomedical Sciences - Pharmacology - Ph.D.

- Biomedical Sciences - Physiology Interdisciplinary - M.S.
- Biomedical Sciences - Physiology Interdisciplinary - Ph.D.
- Chemistry - M.A.
- Chemistry - M.S.
- Chemistry - Ph.D.
- Clinical Psychology - M.A.
- Clinical Psychology - Ph.D.
- Computer Science - M.A.
- Computer Science - M.S.
- Computer Science - Ph.D.
- Creative Writing - M.F.A.
- Criminology and Criminal Justice - M.A.
- English - M.A.
- English - Ph.D.
- English-Rhetoric and Composition - Ph.D.
- French - M.A.
- Geographic Information Science - M.GISC
- Geography - M.S.
- Geography - Ph.D.
- Geology - M.S.
- German - M.A.
- History - M.A.
- History - Ph.D.
- Latin - M.A.
- Liberal Studies - L.S.M.
- Materials Science - M.S.
- Materials Science - Ph.D.
- Mathematics for Secondary Teachers - M.A.
- Philosophy - M.A.
- Physics - M.A.
- Physics - M.S.
- Physics - Ph.D.
- Political Science - M.A.
- Political Science - Ph.D.
- Psychological Science - M.A.
- Psychological Sciences - Ph.D.
- Public Administration - M.P.A.
- Pure Mathematics - M.A.
- Pure Mathematics - M.S.
- Pure Mathematics - Ph.D.
- Sociology - M.A.
- Sociology - Ph.D.
- Spanish - M.A.
- Teaching English as a Second Language - M.A.
- Translation - M.A.
- Translation Studies - Ph.D.

## Certificates

### Undergraduate Certificates

- Paralegal Studies
- Teaching English as a Foreign Language

## Graduate Certificates

- Environmental Geographic Information Science
- Geographic Information Science
- Nonprofit Management
- Teaching English as a Second/Foreign Language

## Non-Degree Programs

### Undergraduate

- Columbus Program in Intergovernmental Issues
- Pre-Dentistry Advising Program
- Pre-Law Advising Program
- Pre-Medicine/Pre-Osteopathy Advising Program
- Pre-Pharmacy Advising Program
- Pre-Veterinary Medicine Advising Program
- Teaching English as a Second Language Endorsement Preparation - undergraduate
- Washington Program in National Issues

### Graduate

- Teaching English as a Second Language Endorsement Preparation - graduate

## College of Arts and Sciences Faculty

- West, John L. (1984), Trustees Research Professor, Ph.D., Carnegie Mellon University, 1980

## Center for Comparative and Integrative Programs Faculty

- Kessler, Chaya (2009), Associate Lecturer, M.A., Youngstown State University, 2005
- Paar Conroy, Amanda M. (2013), Associate Professor, J.D., Cleveland State University, 2005
- Peterson, Mary S. (2016), Assistant Professor, J.D., Bowling Green State University, 1987

## Center for the Study of Gender and Sexuality Faculty

- Holt, Suzanne L. (1984), Professor, Ph.D., Kent State University, 1994
- Merryman, Molly B. (1996), Associate Professor & Director, Ph.D., Bowling Green State University, 1995
- Vachon, Lauren (2012), Assistant Professor, M.F.A., Kent State University, 2013

## Department of Anthropology Faculty

- Bebber, Michelle R. (2019), Assistant Professor
- Eren, Metin (2016), Assistant Professor, Ph.D., Southern Methodist University, 2011
- Fotiou, Evgenia (2014), Assistant Professor, Ph.D, University of Wisconsin, Madison, 2010
- Lovejoy, Claude O. (1968), Distinguished Professor, Ph.D., University of Massachusetts, Amherst, 1970
- Manahan, Thomas K. (2006), Associate Professor, Ph.D., Vanderbilt University, 2003
- Meindl, Richard (1979), Professor, Ph.D., University of Massachusetts, Amherst, 1979

- Perusek, David J. (1998), Associate Professor, L.S.M., Kent State University, 1989
- Raghanti, Mary Ann (2000), Professor & Chair, Ph.D., Kent State University, 2007
- Spurlock, Linda B. (1993), Associate Professor, Ph.D., Kent State University, 2001
- Stumpf-Carome, Jeanne M. (1994), Associate Professor, Ph.D., University of California, Berkeley, 1992
- Takeshita, Rafaela S. (2019), Assistant Professor
- Tosi, Anthony J. (2014), Associate Professor, Ph.D., Columbia University, 2000

## Department of Biological Sciences Faculty

- Bade, Darren L. (2006), Associate Professor, Ph.D., University of Wisconsin, 2004
- Bagavandoss, Paul (1993), Associate Professor, Ph.D., University of Michigan, Ann Arbor, 1986
- Bahlai, Christine (2017), Assistant Professor, Ph.D., University Of Guelph, 2012
- Bailey, Erin L. (2012), Associate Professor, Ph.D., Kent State University, 2001
- Blackwood, Christopher B. (2006), Professor, Ph.D., Michigan State University, 2001
- Blank, James L. (1986), Professor and College Dean, Ph.D., Indiana University, 1982
- Breidenbaugh, Caralisa (2010), Associate Lecturer, M.S., Youngstown State University, 2008
- Brennan, Michael J. (2004), Senior Lecturer, M.Ed., Edinboro University of Pennsylvania, 1985
- Caldwell, Heather K. (2007), Professor, Ph.D., Georgia State University, 2004
- Carlson, Chris R. (1991), Associate Professor, M.S., Michigan State University, 1981
- Casadesus Smith, Gemma (2014), Professor, Ph.D., Tufts University, 2003
- Case, Andrea L. (2005), Associate Professor, Ph.D., University of Toronto, 2000
- Chen, Yijing (2006), Assistant Professor, Ph.D., University of Wisconsin, Madison, 1997
- Chung, Wilson C. (2011), Associate Professor, Ph.D., University of Amsterdam, 2003
- Clements, Robert J. (1997), Assistant Professor, Ph.D., Kent State University, 2004
- Costello, David M. (2014), Assistant Professor, Ph.D., University of Notre Dame, 2010
- Damron, Derek S. (2007), Professor, Ph.D., Kent State University, 1991
- Dankovich, Daniel S. (2010), Lecturer
- De Szalay, Ferenc A. (1997), Associate Professor, Ph.D., University of California, Berkeley, 1995
- Delorme, Thierry A. (2004), Associate Professor, Ph.D., University of Lyon, 1997
- Ding, Qunxing (2007), Associate Professor, Ph.D., Beijing University of Agriculture, 1994
- Eichler, Sarah E. (2019), Assistant Professor, Ph.D., University of Tennessee, Knoxville
- Eisermann, Kurtis (2002), Assistant Professor
- Engohang-Ndong, Jean (2010), Associate Professor
- Fraizer, Gail C. (2001), Associate Professor, Ph.D., University of California, Berkeley, 1983
- Freeman, Ernest J. (1990), Associate Professor & School Director, Ph.D., Kent State University, 1991
- Gerbig, Donald G. (1996), Associate Professor, Ph.D., University of Tennessee, Knoxville, 1991
- Glass, David J. (1984), Professor
- Grafton, Brian W. (1994), Professor, Ph.D., Kent State University, 2004
- Groff, Chi-Hua (2009), Assistant Professor, Ph.D., Wayne State University, 1997
- Gupta, Sanhita (2009), Associate Professor, Ph.D., Case Western Reserve University, 1998
- Hamilton, Robert (2005), Associate Professor, Ph.D., Rutgers, State University of New Jersey, 2006
- Hoeh, Walter R. (1998), Associate Professor, Ph.D., University of Michigan, Ann Arbor, 1991
- Huang, Songping D. (1998), Professor, Ph.D., Michigan State University, 1993
- Johnson, John D. (2007), Associate Professor, Ph.D., University of Colorado, Boulder, 2002
- Kershner, Mark W. (1999), Associate Professor, Ph.D., The Ohio State University, 1998
- Kim, Min-Ho (2012), Associate Professor, Ph.D., University of Toledo, 2002
- Kim, Woo-Yang (2018), Associate Professor
- Kinsman-Costello, Lauren E. (2013), Assistant Professor, Ph.D., Michigan State University, 2012
- Kooijman, Edgar (1998), Associate Professor, Ph.D., Utrecht University, 2006
- Koski, Gary K. (2010), Professor, Ph.D., Johns Hopkins University, 1995
- Kurokawa, Manabu (2017), Assistant Professor, Ph.D., Univ Of Massachusetts Amherst, 2004
- Lamichhaney, Sangeet (2019), Assistant Professor, Ph.D., Uppsala University, 2016
- Leff, Adam A. (1994), Associate Professor, D.V.M., University of Georgia, 1991
- Leff, Laura G. (1994), Professor & Department Chair, Ph.D., University of Georgia, 1992
- Lehnert, Matthew S. (2012), Associate Professor, Ph.D., University of Florida, 2010
- Lovell, John A. (1995), Associate Professor, Ph.D., Kent State University, 1993
- Marcinkiewicz, Jennifer L. (1995), Associate Professor & Director, Ph.D., University of Illinois at Chicago
- McDonough, Jennifer A. (2006), Associate Professor
- Meek, Leah M. (1995), Senior Lecturer
- Mintz, Eric M. (2002), Professor & Associate Dean, Ph.D., University of California, Santa Cruz, 1995
- Model, Michael A. (2004), Associate Professor, Ph.D., University of Michigan, Ann Arbor, 1995
- Mou, Xiaozhen (2008), Associate Professor, Ph.D., University of Georgia, 2006
- Mueller, Devin (2018), Associate Professor, Ph.D., Concordia University, 2005

- Naji, Josephine W. (1988), Associate Professor, Ph.D., Kent State University, 1994
- Novak-Barnett, Colleen M. (2009), Associate Professor, Ph.D., Michigan State University, 1999
- Piet, Richard (2019), Assistant Professor
- Piontkivska, Olena (2005), Associate Professor, Ph.D., Pennsylvania State University, 2003
- Popescu, Daniela C. (2013), Associate Professor, Ph.D., Vanderbilt University, 2006
- Redfearn, James C. (2006), Assistant Professor, Ph.D., Kent State University, 2016
- Rocha, Oscar J. (2004), Associate Professor, Ph.D., Penn State University, 1990
- Russell, Mary A. (2003), Associate Professor, Ph.D., The Ohio State University, 1996
- Shilling, Michael (2008), Assistant Professor, Ph.D., Kent State University, 2013
- Smith, Gregory A. (2014), Assistant Professor, Ph.D., University of Oklahoma, 2007
- Steele, Louise (2012), Assistant Professor, Ph.D., Case Western Reserve University, 2002
- Stone, Jonathan F. (2003), Associate Professor, B.S., University of Akron, 1985
- Tinkler, Gregory P. (2013), Associate Professor, Ph.D., Wake Forest University, 2005
- Vash, Sarah R. (2004), Senior Lecturer, M.S., Kent State University, 2003
- Veney, Sean L. (2004), Associate Professor, Ph.D., University of Virginia, Main Campus, 2000
- Vijayaraghavan, Srinivasan (1997), Professor
- Ward, David (2015), Professor, Ph.D., University of KwaZulu-Natal, 1988
- Welshhans, Kristy A. (2011), Assistant Professor
- Zhu, Haiyan (2010), Associate Professor, M.S., University of Kentucky, 1998
- Ekanayake, Sujewani K. (2012), Associate Professor
- Fenk, Christopher J. (1990), Professor & Interim Chair, Ph.D., University of Pittsburgh, 1987
- Fouad, Farid S. (2008), Associate Professor, Ph.D., Northeastern University, 2003
- Friedrich, Dirk (2016), Assistant Professor, Ph.D., Universität Leipzig, 2013
- Hegmann, Torsten (2011), Professor & Director, Ph.D., Martin Luther University, 2001
- Jaroniec, Mietek (1988), Professor, D.S., Marie Curie Skłodowska University
- Konar, Arkaprabha (2019), Assistant Professor, 2019, Michigan State University, 2015
- Leslie, Margaret R. (2004), Professor, Ph.D., Rhodes University, 1995
- Mao, Hanbin (2005), Professor, Ph.D., Texas A&M University, 2003
- Mighion, Jeffrey D. (2017), Assistant Professor, Ph.D., Princeton University, 2014
- Motry, Douglas H. (1996), Associate Professor, Ph.D., Michigan State University, 1996
- Pal Chaudhuri, Urmila (2008), Associate Professor, Ph.D., Indian Institute of Technology Madras, 2004
- Palfy-Muhoray, Peter (1987), Professor
- Perera, Roshinee S. (2013), Assistant Professor, Ph.D., University of Akron, 2011
- Sampson, Paul (1985), Professor, Ph.D., University of Birmingham, 1983
- Seed, Alexander J. (1996), Associate Professor
- Shen, Hao (2018), Assistant Professor, Ph.D., Cornell University, 2015
- Stroup, Diane (2000), Associate Professor, Ph.D., The Ohio State University, 1992
- Subramanian, Pritha (2006), Associate Professor, Ph.D., Kent State University, 2013
- Tandon, Santokh S. (2004), Professor, Ph.D., Guru Nanak Dev University, 1979
- Tubergen, Michael J. (1995), Professor, Ph.D., University of Chicago, 1991
- Twieg, Robert J. (1997), Professor, Ph.D., University of California, Berkeley
- Wang, Zhiqiang (2007), Professor
- Zheng, Yaorong (2015), Assistant Professor, Ph.D., University of Utah, 2011

## Department of Chemistry and Biochemistry Faculty

- Abeyirigunawardena, Sanjaya C. (2015), Assistant Professor, Ph.D., Wayne State University, 2008
- Abraham, Ann C. (2004), Associate Professor, Ph.D., University of Pittsburgh, 1983
- Basu, Soumitra (2005), Professor, Ph.D., Thomas Jefferson University, 1997
- Bowers, David J. (2013), Associate Professor
- Bunge, Scott D. (2004), Associate Professor, Ph.D., Georgia Institute of Technology, 2001
- Burns, Andrew (1994), Professor, Ph.D., Brown University, 1990
- Cubon-Bell, Valerie A. (2010), Associate Professor, Ph.D., Princeton University, 2008
- Datta, Bansidhar (2000), Associate Professor, University of Nebraska-Lincoln, 1989
- Ding, Tang (2006), Associate Professor, Ph.D., University of Akron, 2006
- Dunietz, Barry (2012), Associate Professor
- Earley, Clarke W. (1995), Associate Professor, Ph.D., University of Illinois-Urbana, 1987

## Department of Computer Science Faculty

- Allouzi, Maha A. (2013), Lecturer
- Bansal, Arvind K. (1988), Professor, Ph.D., Case Western Reserve University, 1985
- Dragan, Feodor F. (2000), Professor, Ph.D., Belarus State University
- Ghazinour Naini, Kambiz (2015), Assistant Professor, Ph.D., University of Calgary, 2012
- Guan, Qiang (2018), Assistant Professor, M.S., University of North Texas, 2008
- Guercio, Angela (1999), Associate Professor, Ph.D., Kent State University, 2004
- Jin, Ruoming (2005), Professor, Ph.D., The Ohio State University, 2001
- Khan, Javed I. (1997), Professor & Department Chair, Ph.D., University of Hawaii-Manoa, 1995



- Kim, JungYoon (2019), Assistant Professor, Ph.D., Penn State University, 2014
- Kim, Kwangtaek (2019), Assistant Professor, Ph.D., Purdue University, 2010
- Kim, Jong-Hoon (2017), Assistant Professor
- Lian, Xiang (2016), Assistant Professor, Ph.D., Hong Kong University Of Science and Technology, 2009
- Lu, Cheng-Chang (1988), Professor, Ph.D., Southern Methodist University, 1988
- Maha, Allouzi A. (2013), Lecturer
- Maletic, Jonathan I. (2001), Professor, Ph.D., Wayne State University, 1995
- Melton, Austin C. (1996), Professor, Ph.D., Kansas State University, 1980
- Nesterenko, Mikhail (1998), Professor, Ph.D., Kansas State University, 1998
- Peyravi, Hassan M. (1985), Professor, Ph.D., University of Oklahoma, 1995
- Samba, Augustine S. (2001), Professor, Ph.D., University of Liverpool, 1983
- Sharma, Gokarna (2015), Assistant Professor, Ph.D., Louisiana State University, 2014
- Volkert, Gwenn L. (2001), Associate Professor
- Walker, Robert A. (1996), Professor, Ph.D., Carnegie Mellon University, 1988
- Younghun, Chae (2016), Assistant Professor, Ph.D., University of Rhode Island, 2017
- Zhao, Ye (2006), Professor, Ph.D., State University of New York, Stony Brook, 2006
- Ciuba, Gary M. (1986), Professor, Ph.D., Fordham University, 1986
- Clewell, Tammy (2000), Professor, Ph.D., Florida State University, 2000
- Conrad, Jessica (2019), Lecturer, Ph.D., University of Delaware, 2019
- Cunningham, Jennifer M. (2009), Associate Professor, Ph.D., Kent State University, 2012
- Dallacheisa, Tony G. (2008), Lecturer
- Daniels, Martha E. (2010), Lecturer, Ed.D., Walden University, 2008
- Dauterich, Edward (1997), Professor, Ph.D., Kent State University, 2006
- Davis Patterson, Kathy S. (2000), Associate Professor, Ph.D., The Ohio State University, 1999
- Devore, Elizabeth E. (2010), Associate Lecturer, M.A., New Mexico Highlands University, 2009
- Dugas, Don-John (2005), Professor, Ph.D., Penn State University, 1999
- Dunmire, Patricia L. (1995), Professor, Ph.D., Carnegie Mellon University, 1995
- Elder, Dolores M. (2009), Lecturer, M.A., Kent State University, 2010
- Ellis, Marnie K. (2003), Associate Lecturer, M.F.A., Bowling Green State University, 1999
- Erritouni, Ali (2005), Associate Professor, Ph.D., University of Miami, 2004
- Fein, Susanna G. (1985), Professor, Ph.D., Harvard College, 1985
- Floyd, Kevin R. (1998), Professor, University of Iowa, 1998
- George, Barbara E. (2011), Assistant Professor, Ph.D., Kent State University, 2018
- Hakutani, Yoshinobu (1968), Professor, Ph.D., Pennsylvania State University, 1965
- Hamrick, Phillip M. (2013), Associate Professor, Ph.D., Georgetown University, 2013
- Harrington, Kristine (2016), Lecturer
- Harrison, Denise A. (2005), Associate Lecturer, M.A., Miami University, 2001
- Hayes, Amanda (2016), Assistant Professor
- Hediger, Ryan R. (2011), Associate Professor, Ph.D., University of Oregon, 2005
- Hendrickx, Jessy A. (2015), Lecturer, M.A., Kent State University, 2002
- Howard, Elizabeth A. (2000), Professor, B.A., Kent State University, 1987
- Huot, Brian A. (2004), Professor, Ph.D., Indiana University of Pennsylvania, 1988
- Jones, Jessica M. (2016), Lecturer, University Of Montana, 2014
- King, Robert J. (1998), Associate Professor, M.F.A., Indiana University-Bloomington, 1998
- Krishnan, Uma S. (2001), Professor, Ph.D., Kent State University, 2014
- Lieske, Pamela J. (1997), Professor, Ph.D., University of Massachusetts, Amherst, 1996
- Lloyd, Keith S. (2002), Professor, Ph.D., University of Louisville, 1996
- Lyons, Janet L. (2010), Associate Lecturer, M.A., Kent State University, 2011
- Lyons, Jo-Leigh (1991), Senior Lecturer, M.A., Kent State University, 1996
- M'Baye, Babacar (2006), Professor, Ph.D., Bowling Green State University, 2002
- MacLure, Jennifer (2017), Assistant Professor, Ph.D., University of Wisconsin, Madison, 2017

## Department of English Faculty

- Abuzeid, Ayham (2007), Associate Lecturer, B.A., Kent State University, 2008
- Baker, Charles R. (2002), Associate Professor, Ph.D., Indiana University of Pennsylvania, 1997
- Baker, Alexis M. (2017), Assistant Professor, Ph.D., Kent State University, Stark Campus, 2016
- Bice, Deborah M. (1997), Associate Professor, Ph.D., Case Western Reserve University, 1995
- Bowers, Abigail L. (2011), Associate Professor, Ph.D., Texas A&M University, Main Campus, 1997
- Bowles, Noelle K. (2001), Associate Professor, Ph.D., University of Miami, 1996
- Bracher, Mark F. (1985), Professor, Ph.D., Vanderbilt University, 1981
- Brodsky, Adam H. (2008), Associate Lecturer, M.A., Kent State University, 2011
- Byrne, Peter M. (2008), Associate Professor, Ph.D., University of California, Irvine, 2004
- Camden, Vera J. (1984), Professor, Ph.D., University of Virginia, Main Campus, 1986
- Canacci, James E. (1995), Associate Lecturer, M.A., Youngstown State University, 1995
- Christen-Syed, Shannon L. (2010), Lecturer, M.A., Kent State University, 2004
- Chu, Alan (2016), Assistant Professor, Ph.D., University of Arizona, 2017

- Martinez, Ann M. (2014), Assistant Professor, Ph.D., University of Kansas, 2014
- Mechenbier, Mahli X. (1996), Senior Lecturer, J.D., University of Akron, 2002
- Metz, John (2010), Senior Lecturer, M.A., University of Toledo, 1985
- Miller, Ryan T. (2014), Associate Professor, Ph.D., Carnegie Mellon University, 2013
- Mokros, Molly M. (2009), Lecturer
- Moneysmith, Jayne A. (1996), Associate Professor
- Myers, Joshua R. (2019), Lecturer
- Neaderhiser, Stephen E. (2009), Assistant Professor, M.A., University of Kansas, 2004
- Neiderman, Beverly A. (1990), Senior Lecturer, M.A., Bowling Green State University, 1980
- Nestor, Sarah M. (2017), Assistant Professor, Ph.D., Marquette University, 2012
- Orr, Katherine M. (1990), Professor, Ph.D., Kent State University, 2010
- Pate, Corey M. (2007), Lecturer, M.Ed., Kent State University, 2005
- Patterson, G. R. (2018), Assistant Professor
- Piccirillo-Smith, Linda A. (1983), Senior Lecturer, M.A., Kent State University, 1980
- Prescott, Renate W. (1993), Associate Professor, Ph.D., Bowling Green State University, 1990
- Raabe, Wesley (2008), Associate Professor, Ph.D., University of Virginia, Main Campus, 2006
- Remley, Dirk R. (1990), Professor, Ph.D., Kent State University, 2010
- Rilling, Sarah E. (2002), Professor, Ph.D., Northern Arizona University, 1998
- Robinson, Carol L. (2000), Associate Professor, Ph.D., University of Georgia, 1994
- Roman, Christopher M. (1997), Professor, Ph.D., University of Alabama, 2004
- Rooks, Mary A. (2005), Assistant Professor, Ph.D., University of Mexico, 2004
- Rozner, Debbie L. (2010), Senior Lecturer, M.Ed., George Washington University, 2004
- Sainato, Susan M. (1987), Professor, Ph.D., Kent State University, 2002
- Sanders, Michael T. (1995), Associate Professor, Ph.D., Kent State University, 2006
- Schafffler, Charlene M. (1991), Senior Lecturer, M.A., Kent State University, 1994
- Shaker, Bonnie J. (2013), Assistant Professor, Ph.D., Case Western Reserve University, 1998
- Shank, Matthew A. (1983), Senior Lecturer, M.A., University of Akron, 1982
- Simpson, Barry H. (2009), Lecturer, M.Ed., Cleveland State University, 2001
- Sloan, Jay D. (2000), Associate Professor, Ph.D., Marquette University, 1999
- Smith, Jeanne R. (1998), Associate Lecturer, M.A., State University of New York, Binghamton, 1986
- Stewart, Matthew R. (1998), Associate Lecturer, M.A., Kent State University, 1980
- Sturr, Robert D. (1997), Associate Professor, Ph.D., University of Southern California, 1998
- Takayoshi, Pamela D. (2004), Professor, Ph.D., Indiana University, Purdue University Indianapolis, 1995
- Trogdon, Robert W. (1997), Professor & Department Chair, Ph.D., University of South Carolina-Columbia, 1996
- Uhrig, Mindy D. (2006), Associate Lecturer, M.A., University of Indiana, Bloomington, 1994
- Van Ittersum, Derek (2008), Associate Professor, M.A., Kent State University, 2003
- Vogel, Lauren A. (2001), Associate Lecturer, M.A., Kent State University, 2005
- Wetzl, Ana M. (2007), Associate Professor
- Willey, Nicole L. (1997), Professor, Ph.D., University of Alabama, 2003
- Winebrenner, Kimberly C. (1982), Professor, Ph.D., Kent State University, 1991
- Wing, Catherine (2010), Associate Professor, M.F.A., University of Washington, 2004
- Winkler, Kyle M. (2018), Assistant Professor, Ph.D., University of Pittsburgh, 2018
- Winter, James P. (2008), Associate Professor, M.F.A., Kent State University, 2012
- Wollenzier, Michele M. (2005), Associate Lecturer, M.A.T., Kent State University, 2003
- Yoder, Kimberly A. (1988), Senior Lecturer, M.A., Kent State University, 1995

### Department of Geography Faculty

- Amey, Katherine S. (2009), Associate Professor, Ph.D., Kent State University, 2011
- Assal, Timothy J. (2019), Assistant Professor, Ph.D., Colorado State University, 2015
- Cromley, Gordon A. (2013), Assistant Professor, Ph.D., Kent State University, 2019
- Haley, Mary Ann (1993), Assistant Professor
- Kaplan, David H. (1995), Professor, Ph.D., University of Wisconsin, Madison, 1991
- Lee, Jay (1991), Professor, Ph.D., University of Western Ontario, 1989
- Lee, Cameron C. (2008), Assistant Professor, Ph.D., Kent State University, 2014
- Mapes, Jennifer E. (2012), Associate Professor, Ph.D., University of Southern California, 2009
- Munro-Stasiuk, Mandy (1999), Professor, Ph.D., University of Alberta, 1999
- Parylak, Rebecca P. (2008), Associate Professor, Ph.D., Texas State University, San Marcos, 2010
- Post, Christopher (2008), Associate Professor, Ph.D., University of Kansas, 2006
- Schmidlin, Thomas W. (1985), Professor, Ph.D., Cornell University, 1984
- Scholl, Andrew E. (2013), Assistant Professor, Ph.D., Penn State University, 2008
- Sheridan, Scott C. (2000), Professor & Chair, Ph.D., University of Delaware, 2000
- Smiley, Sarah L. (2010), Associate Professor, Ph.D., University of Kansas, 2007
- Turner, Victoria K. (2013), Assistant Professor, Ph.D., Arizona State University, 2013

- Tyner, James A. (1997), Professor, Ph.D., University of Southern California, 1995
- Widner, Emariana S. (2009), Associate Professor, Ph.D., Texas State University, 2009
- Ye, Xinyue (2013), Assistant Professor, Ph.D., San Diego State University, 2010
- Yin, He (2019), Assistant Professor

## Department of Geology Faculty

- Chaudhary, Kuldeep (2017), Assistant Professor, Ph.D., University of Texas-Austin, 2013
- Clement, Susanne M. (1995), Associate Professor, Ph.D., Kent State University, 2005
- Hacker, David B. (1989), Professor, Ph.D., Kent State University, 1998
- Herndon, Elizabeth (2014), Assistant Professor
- Holm, Daniel K. (1992), Professor & Department Chair, Ph.D., Harvard University, 1992
- Jefferson, Anne (2012), Associate Professor, Ph.D., Oregon State University, 2006
- Ortiz, Joseph D. (2001), Professor, Ph.D., Oregon State University, 1995
- Rowan, Christopher (2013), Assistant Professor, Ph.D., University of Southampton, 2006
- Schweitzer, Carrie E. (1994), Professor, Ph.D., Kent State University, 2000
- Singer, David M. (2012), Associate Professor, Ph.D., Stanford University, 2008
- Singh, Kuldeep (2017), Assistant Professor, Ph.D., University of Texas at Austin, 2013
- Smith, Alison J. (1990), Professor & Dean, Ph.D., Brown University, 1991
- Taylor, Eric S. (2012), Associate Professor, Ph.D., The Ohio State University, 2012
- Wells, Neil A. (1984), Professor, Ph.D., University of Michigan, Ann Arbor, 1984
- Williams, Jeremy C. (2015), Assistant Professor, Ph.D., University of Massachusetts, Boston, 2014

## Department of History Faculty

- Adams, Kevin J. (2006), Associate Professor & Interim Chair, Ph.D., University of California, Berkeley, 2004
- Bindas, Kenneth J. (1995), Professor, Ph.D., University of Toledo, 1988
- Crawford, Matthew J. (2009), Associate Professor, Ph.D., University of California, San Diego, 2009
- Diacon, Todd A. (2012), Professor and President, Ph.D., University of Wisconsin, Madison, 1987
- Grahn, Lance R. (2015), Professor, Ph.D., Duke University, 1986
- Gruenwald, Kim M. (1995), Associate Professor, Ph.D., University of Colorado, Boulder, 1994
- Hartline, Todd A. (1992), Assistant Professor, Ph.D., Kent State University, 2006
- Hayashi, Brian M. (2016), Professor, Ph.D., University of California, Los Angeles, 1990
- Heaphy, Leslie A. (1995), Associate Professor, Ph.D., University of Toledo, 1995
- Heiss, Mary A. (1992), Associate Professor, Ph.D., The Ohio State University, 1991

- Hudson, Leonne M. (1983), Associate Professor, Ph.D., Kent State University, 1990
- Keefer, Bradley S. (1987), Associate Professor, Ph.D., Kent State University, 2006
- Li, Hongshan (1993), Professor, Ph.D., University of Missouri, Columbia, 1992
- Menning, Ralph R. (2006), Assistant Professor
- Parsons, Elaine (2017), Professor, Ph.D., Johns Hopkins University, 2000
- Scarnecchia, Timothy L. (2007), Associate Professor, Ph.D., University of Michigan, 1994
- Seelye, James E. (2010), Assistant Professor, Ph.D., University of Toledo, 2010
- Sergi, Molly M. (1991), Professor, Ph.D., Kent State University, 2015
- Smith, Elizabeth M. (2001), Associate Professor, Ph.D., Rutgers, The State University of New Jersey, 2001
- Starkey, Lindsay J. (2012), Assistant Professor, Ph.D., University of Wisconsin, Madison, 2012
- Steigmann-Gall, Richard A. (2000), Associate Professor, Ph.D., University of Toronto, 1999
- Strate, Shane (2013), Associate Professor, Ph.D., University of Wisconsin, Madison, 2009
- Thyret, Isolde R. (1994), Associate Professor, Ph.D., University of Washington, 1992
- Wamsley, Esther S. (2005), Assistant Professor, Ph.D., The Ohio State University, 1998

## Department of Mathematical Sciences Faculty

- Adams, Lynn (2007), Senior Lecturer, M.S., University of Akron, 2007
- Ahuja, Om P. (2000), Professor, Ph.D., University of Khartoum, 1981
- Alexopoulos, John K. (1994), Associate Professor, Ph.D., Kent State University, 1992
- Allouba, Hassan A. (2002), Associate Professor, Ph.D., Cornell University, 1996
- Altobelli, Joseph A. (1997), Associate Professor, Ph.D., The Ohio State University, 1996
- Andaloro, Paul J. (1994), Assistant Professor, Ph.D., The Ohio State University, 1989
- Andriyevskyy, Volodymyr (2000), Professor, Ph.D., Institute of Mathematics of Ukrainian Academy of Sciences, 1986
- Barb, Cynthia M. (1990), Associate Professor, Ph.D., Kent State University, 1997
- Chebotar, Mikhail (2006), Professor, Ph.D., Moscow State University, 1999
- Das, Lovejoy S. (1989), Professor, Ph.D., University of Lucknow, 1979
- Davidson, Morley A. (1996), Associate Professor, Ph.D., University of Michigan, 1995
- de la Cruz Cabrera, Omar (2016), Assistant Professor
- Del Pizzo, Lawrence F. (1969), Assistant Professor, M.A., Kent State University, 1969
- Dhaher, Yaser Y. (1989), Professor, Ph.D., Kent State University, 2007
- Di Alesandro, Jack J. (1983), Associate Lecturer, M.Ed., Kent State University, 1989
- Dinh, Hai Q. (2004), Professor, Ph.D., Ohio University, 2003
- Feng, Bao Q. (1996), Associate Professor, Ph.D., Kent State University, 2001

- Gagola, Stephen M. (1982), Professor, Ph.D., University of Wisconsin, Madison, 1974
- Gordon, Peter (2017), Associate Professor, Ph.D., Moscow University, 1999
- He, Min (1995), Professor
- Heinbach, Charles C. (1978), Senior Lecturer, B.A., Kent State University, 1977
- Hovhannisyian, Gro (2003), Professor, Ph.D., Yerevan State University, 1990
- Hrubik-Vulanovic, Tatjana (2002), Assistant Professor, Ph.D., Kent State University, 2013
- Jahangiri, Jay M. (1994), Professor, Ph.D., University of York, 1986
- Kasturiarachi, Aloysius Bathi B. (1995), Associate Professor
- Khan, Mohammad K. (1981), Professor, Ph.D., Case Western Reserve University, 1980
- Kover, Janice S. (1996), Associate Professor, Ph.D., Kent State University, 2001
- Kracht, Darci L. (1984), Professor, Ph.D., Kent State University, 2011
- Kratky, Joseph J. (2005), Lecturer, M.S., Kent State University, 2011
- Laux, Tracy A. (1990), Senior Lecturer, B.S., Kent State University, 1990
- Lewis, Mark L. (1996), Professor, Ph.D., University of Wisconsin, Madison, 1995
- Li, Jing (2003), Associate Professor, Ph.D., New York University, 2002
- Li, Jun (2013), Associate Professor, Ph.D., Iowa State University, 2013
- Lochmueller, Kerri K. (2005), Lecturer, M.S., Youngstown State University, 2008
- Meyer, Lorree L. (1994), Associate Lecturer, B.S., Kent State University, 1993
- Mikusa, Michael (1987), Associate Professor, Ph.D., Kent State University, 1993
- Mocioalca, Oana (2004), Associate Professor, Ph.D., University of Florida, 2002
- Muckridge, Nicole A. (2007), Associate Professor, Ph.D., Kent State University, 2017
- Mulqueeny, Ellen S. (2005), Associate Professor, M.S., Cleveland State University, 1993
- Najafi, Mahmoud (1995), Professor, Ph.D., Wichita State University, 1994
- Nazarov, Fedor L. (2011), Professor
- Osikiewicz, Beth-Allyn (1994), Associate Professor, Ph.D., Kent State University, 2000
- Osikiewicz, Jeffrey A. (1990), Associate Professor, Ph.D., Kent State University, 1997
- Palocyi, Frank J. (1991), Lecturer
- Perera, Vicumpriya S. (1998), Associate Professor, Ph.D., Purdue University, 1993
- Pham, Tuyet D. (1988), Senior Lecturer, M.S., University of Akron, 1988
- Polanski, Teresa S. (1987), Senior Lecturer, M.A.T., Kent State University, 1994
- Rajagopal, Parthasarathy (1987), Assistant Professor, Ph.D.
- Rajaram, Rajeev (2008), Associate Professor, Ph.D., Iowa State University, 2005
- Reed, Beverly M. (1986), Professor, Ph.D., Kent State University, 2007
- Reichel, Lothar (1991), Professor, Ph.D., University of Stockholm, 1982
- Ruchotzke, Randy L. (1994), Lecturer, M.A., Iowa State University, 1986
- Ruff, Oliver (2009), Associate Professor, Ph.D., University of Oregon, 2002
- Ryabogin, Dmitry (2007), Professor, Ph.D., University of Jerusalem, 2001
- Sharp, Mary Theresa L. (1997), Associate Professor, Ph.D., Kent State University, 2014
- Smithies, Laura A. (1997), Associate Professor, Ph.D., University of Utah, 1997
- Soprunova, Evgenia (2007), Associate Professor, Ph.D., University of Toronto, 2002
- Stadden, Jared M. (2013), Lecturer, M.B.A., Kent State University, 2012
- Taha, Nader F. (1990), Associate Lecturer, M.S., Tennessee State University, 1989
- Tonge, Andrew M. (1985), Professor & Department Chair, Ph.D., University of Cambridge, 1976
- Trehan, Dawn M. (2019), Assistant Professor, M.S., Case Western Reserve, 1996
- Tsai, Tsung-Heng (2019), Assistant Professor
- Vezvaei, Mahbobeh (1983), Professor, Ph.D., Case Western Reserve University, 1987
- Vorhauer, Ulrike M. (2001), Associate Professor, Ph.D., University of Ulm, 1996
- Vulcanovic, Relja (1992), Professor, Ph.D., University of Novi Sad, 1986
- Wakita, Hideki (1998), Senior Lecturer, M.A., Kent State University, 2002
- Wallach, Tracy A. (1984), Senior Lecturer, M.Ed., Kent State University, 1989
- Wei, Zhaoting (2016), Assistant Professor, Ph.D., University Of Pennsylvania, 2013
- White, Donald L. (1989), Professor, Ph.D., Yale University, 1987
- Wright, Brian M. (1998), Associate Professor, Ph.D., Kent State University, 2007
- Yu, Gang (2006), Associate Professor, Ed.D., University of Georgia, 2000
- Zheng, Xiaoyu (2006), Associate Professor, Ph.D., University of North Carolina, Chapel Hill, 2006
- Zvavitch, Artem (2004), Professor, Ph.D., Weizmann Institute of Science, 2002

## Department of Modern and Classical Language Studies Faculty

- Angelone, Erik (2007), Associate Professor, Ph.D., University of Heidelberg, 2006
- Baer, Brian J. (1996), Professor, Ph.D., Yale University, 1996
- Bell, Sharon M. (1990), Assistant Professor, Ph.D., Brown University, 1987
- Berrong, Richard M. (1985), Professor, Ph.D., Cornell University, 1977
- Bilali, Loubna (2008), Assistant Professor
- Brett-Paez, Maria C. (2009), Lecturer, M.A., Kent State University, 2013
- Bystrova-McIntyre, Tatyana (2002), Associate Professor, Ph.D., Kent State University, 2012
- Carduner, Jessie (1998), Associate Professor, Ph.D., University of Pittsburgh, 1998
- Carl, Michael (2018), Professor



- Castaneda-Vise, Daniel A. (2007), Associate Professor, Ph.D., West Virginia University, 2007
- Chism, Rebecca L. (1999), Associate Professor, Ph.D., Florida State University, 2000
- De Julio, MaryAnn (1986), Professor, Ph.D., University of Iowa, 1979
- Dunne, Keiran J. (2000), Professor & Department Chair, Ph.D., Pennsylvania State University, 2000
- Dzero, Irina (2010), Assistant Professor
- Ehrman, Radd K. (1982), Professor, Ph.D., University of Illinois-Chicago, 1982
- Fatchet-McGee, Lori L. (1995), Associate Lecturer, M.A., Kent State University, 1997
- Gallagher, Patrick L. (2001), Associate Professor, Ph.D., University of Iowa, 1997
- Gee, Jacqueline L. (2009), Lecturer, M.Ed., Kent State University, 2016
- Hall, Jennifer E. (2008), Lecturer, M.Ed., University of Akron, 2015
- Harvey, Brian K. (1999), Associate Professor, Ph.D., University of Michigan, Ann Arbor, 1998
- Harvey, Sarah M. (2001), Professor, Ph.D., University of Michigan, Ann Arbor, 1999
- Hermosilla, Luis G. (1994), Associate Professor, Ph.D., The Ohio State University, 1994
- Hogue, Randall L. (2012), Associate Professor, Ph.D., Gallaudet University, 2011
- Koby, Geoffrey S. (1994), Professor, Ph.D., University of Wisconsin, Madison, 1992
- Lacruz, Isabel (1998), Associate Professor, Ph.D., Kent State University, 2005
- Larson, Jennifer L. (1992), Professor, Ph.D., University of Wisconsin-Madison, 1992
- Libbon, Stephanie E. (2002), Associate Professor, Ph.D., The Ohio State University, 2000
- Massardier-Kenney, Françoise M. (1988), Professor, Ph.D., Kent State University, 1986
- McGee, Lori L. (1995), Associate Lecturer, M.A., Kent State University, 1997
- Nehring, Lawrence J. (2008), Associate Lecturer, M.S., University of Rochester, 1991
- Rivera, Olga I. (1999), Professor, Ph.D., The Ohio State University, 1998
- Romero-Gonzalez, Mariana (2009), Associate Lecturer, M.A., Kent State University, 2012
- Rossoll, Hildegard M. (1988), Associate Professor, Ph.D., Washington University in St. Louis, 1991
- Sato, Paula K. (2009), Associate Professor
- Shiyab, Said M. (2014), Professor
- Shuman, Mason P. (2005), Associate Lecturer, M.A., Kent State University, 2006
- Siciarz, Stephanie J. (2012), Lecturer, M.A., Johns Hopkins University, 2007
- Stasiowski, Kristin (2013), Assistant Professor & Assistant Dean
- Subak, Leah L. (1994), Assistant Professor
- Talentino, Kimberly L. (2007), Associate Lecturer, M.A., Kent State University, 1991
- Tanaka, Eriko (2010), Associate Lecturer, M.A., Bowling Green State University, 2001
- Trzeciak Huss, Joanna (2006), Associate Professor

- Vickery, Steve C. (1997), Lecturer, B.A., Kent State University, 1998
- Wakabayashi, Judy F. (2002), Professor, Ph.D., University of Southern Queensland, 1993
- Washbourne, Richard K. (2003), Professor, Ph.D., University of Massachusetts-Amherst, 2002
- Yu, Hui (2012), Associate Lecturer
- Zaldivar, Maria E. (2007), Professor, Ph.D., Pennsylvania State University, 1991

## Department of Pan-African Studies Faculty

- Crawford, Charmaine M. (2019), Associate Professor
- Gooden, Amoaba (2006), Associate Professor & Department Chair, Ph.D., Temple University, 2005
- Kumah-Abiwu, Felix (2015), Assistant Professor
- Okantah, Mwatabu S. (1991), Associate Professor, B.A., Kent State University, 1976
- Sunni-Ali, Asantewa (2016), Assistant Professor
- Syed, Idris K. (1991), Associate Professor, M.Ed., Kent State University, 2001
- Temu, M.L. Nambuo (1974), Assistant Professor, Ph.D., Kent State University, 1976
- Williams, Christopher Y. (1970), Associate Professor, Ph.D., Kent State University, 1976

## Department of Philosophy Faculty

- Aldea, Andreea S. (2017), Assistant Professor, Ph.D., Emory University, 2012
- Barnbaum, Deborah R. (1997), Professor, Ph.D., University of Massachusetts, Amherst, 1996
- Byron, B. Michael (1997), Professor & Chairperson, Ph.D., University of Notre Dame, 1996
- Fernandez, Anthony (2017), Assistant Professor, Ph.D., University of South Florida, 2016
- Garchar, Kimberly K. (2008), Associate Professor, Ph.D., University of Oregon, 2006
- Ikuenobe, Polycarp A. (1997), Professor, Ph.D., Wayne State University, 1993
- Kim, Jung-Yeup (2008), Associate Professor, Ph.D., University of Hawaii-Manoa, 2008
- Norton-Smith, Thomas M. , Professor & Interim Assistant Dean
- Odell-Scott, David W. (1990), Professor & Associate Dean, Ph.D., Vanderbilt University, 1989
- Palmer, Daniel E. (2001), Associate Professor & Interim Dean, Ph.D., Purdue University, 2000
- Pereplyotchik, David (2013), Associate Professor, Ph.D., City University of New York Graduate Center, 2012
- Ryan, Frank X. (1997), Associate Professor, Ph.D., Emory University, 1996
- Smith, Deborah C. (1997), Professor, Ph.D., University of Washington, 2003
- Uher, Clarence G. (1993), Associate Lecturer, M.A., Cleveland State University, 1991
- Zavota, Gina (2003), Associate Professor, Ph.D., State University of New York-Stony Brook, 2003



## Department of Physics Faculty

- Almasan, Carmen C. (1995), Professor, Ph.D., University of South Carolina, 1989
- Antocheviz Dexheimer Strickland, Veronica A. (2013), Assistant Professor, Ph.D., Goethe Universitat, 2009
- Balci, Hamza (2009), Associate Professor, Ph.D., University of Maryland, 2004
- Barrick, John M. (1988), Associate Lecturer, Ed.S., Kent State University, 1988
- Cheng, Haw (2018), Assistant Professor, Ph.D., University of North Carolina, Chapel Hill, 2014
- Driscoll, Donald D. (2007), Associate Professor, Ph.D., Case Western Reserve University, 2004
- Dzero, Maxim (2010), Associate Professor
- Ellman, Brett D. (1997), Associate Professor, Ph.D., University of Chicago, 1993
- Fregoso, Benjamin (2017), Assistant Professor
- Gleeson, James T. (1997), Professor & Department Chair, Ph.D., Kent State University, 1991
- Katramatou, A. Mina T. (1996), Professor, Ph.D., American University, 1988
- Keane, Declan F. (1988), Professor, Ph.D., University College of Dublin
- Lavrentovich, Oleg D. (1992), Trustees Research Professor, Kiev University, 1990
- Li, Ran (2007), Associate Professor, Ph.D., Southern Illinois University, Carbondale, 2007
- Lussem, Bjorn (2014), Associate Professor
- Manley, D.M. (1986), Professor, Ph.D., University of Wyoming, 1981
- Mann, Elizabeth K. (1998), Professor, Ph.D., University of Paris, 1992
- Margetis, Spyridon (1997), Professor, Ph.D., Goethe Universitat, 1991
- Minnick, Stephen A. (2003), Professor & Assistant Dean, Ph.D., Pennsylvania State University, 2003
- Montgomery, Timothy E. (1985), Associate Lecturer
- Petratos, Gerassimos G. (1994), Professor, Ph.D., American University, 1988
- Portman, John J. (2003), Professor, Ph.D., University of Illinois, Urbana, 2000
- Quader, Khandker F. (1990), Professor, Ph.D., State University of New York-Stony Brook, 1983
- Schmidt, Thorsten-Lars (2019), Assistant Professor
- Schroeder, Almut (2001), Associate Professor
- Secaur, Jonathan M. (1980), Associate Professor, Ph.D., Kent State University, 1994
- Selinger, Jonathan V. (2005), Professor, Ph.D., Harvard College, 1989
- Selinger, Robin L. (2005), Professor, Ph.D., Harvard College, 1989
- Sprunt, Samuel N. (1995), Professor, Ph.D., Massachusetts Institute of Technology, 1989
- Strickland, Michael (2013), Professor, Ph.D., Duke University, 1997
- Vanfossen, Joseph A. (2004), Assistant Professor
- Wei, Qi-Huo (2006), Professor
- Yang, Deng-Ke (1989), Professor, Ph.D., University of Hawaii at Manoa, 1989
- Yokoyama, Hiroshi (2009), Professor, Ph.D., Tokyo International University, 1987

## Department of Political Science Faculty

- Banks, Christopher P. (2006), Professor, Ph.D., University of Virginia, 1995
- Barnes, Andrew S. (2001), Associate Professor, Ph.D., Princeton University, 1999
- Bhungalia, Lisa (2017), Assistant Professor, Ph.D., Syracuse University, 2013
- Boyd-Swan, Casey (2015), Assistant Professor, Ph.D., Arizona State University, 2015
- Carbonell, Joel R. (2007), Associate Professor, Ph.D., University of California, Riverside, 2007
- Cassell, Mark K. (1998), Professor, Ph.D., University of Wisconsin, Madison, 1998
- Chand, Daniel E. (2016), Associate Professor
- Claassen, Ryan L. (2005), Professor, Ph.D., University of California-Davis, 2005
- Ensley, Michael J. (2009), Associate Professor, Ph.D., Duke University, 2002
- Hawes, Daniel P. (2008), Associate Professor, Ph.D., Texas A&M University, Main Campus, 2008
- Mazzei, Julie M. (2004), Associate Professor, Ph.D., American University, 2006
- Molina, Anthony D. (2013), Associate Professor & Interim Chair, Ph.D., Cleveland State University, 2004
- Nickels, Ashley E. (2016), Assistant Professor
- Paar-Jakli, Gabriella (1991), Assistant Professor, Ph.D., Kent State University, 2010
- Robyn, Richard C. (1994), Associate Professor, Ph.D., Kent State University, 2000
- Stacher, Joshua A. (2008), Associate Professor
- Sykes, Vernon L. (2001), Associate Professor, Ph.D., University of Akron, 2001

## Department of Psychological Sciences Faculty

- Bartholomew, Christie L. (2003), Assistant Professor, Ph.D., Kent State University, 2014
- Ben-Porath, Yossef S. (1990), Professor, Ph.D., University of Minnesota, Twin Cities, 1989
- Betz, Brian D. (1991), Associate Professor, Ph.D., Ohio University, 1987
- Blasiman, Rachael N. (2010), Associate Professor, Ph.D., Case Western Reserve University, 2010
- Ciesla, Jeffrey (2007), Associate Professor, Ph.D., University at Albany, SUNY, 2004
- Ciesla, Shannon N. (2007), Assistant Professor, Ph.D., Kent State University, 2013
- Coifman, Karin G. (2010), Associate Professor, Ph.D., Columbia University, 2008
- Cremeans-Smith, Julie K. (1998), Associate Professor, Ph.D., Kent State University, 2004
- DeCapito, Alberta L. (1985), Senior Lecturer
- Dunlosky, John T. (2004), Professor, Ph.D., University of Washington, 1993
- Evey, Julie A. (2018), Assistant Professor, Ph.D., Kent State University, 1998
- Flessner, Christopher A. (2011), Associate Professor, Ph.D., University of Wisconsin, Milwaukee, 2008

- Folk, Jocelyn R. (1999), Associate Professor, Ph.D., University of South Carolina, Columbia, 1997
- Fountain, Stephen B. (1984), Professor, Ph.D., The Johns Hopkins University, 1981
- Fox-Cardamone, Donna L. (1994), Professor, Ph.D., Miami University, 1990
- Fresco, David M. (2001), Professor, Ph.D., University of North Carolina, Chapel Hill, 1999
- Galati, Ashley R. (2013), Associate Professor, Ph.D., University of Kentucky, 2013
- Gere, Judith (2013), Associate Professor
- Grau, Josefina M. (1994), Associate Professor, Ph.D., University of Illinois, Chicago, 1992
- Gunstad, John J. (2005), Professor, Ph.D., Ohio University, 2002
- Himmelstein, Mary S. (2019), Assistant Professor
- Hughes, Joel W. (2003), Professor, Ph.D., The Ohio State University, 2001
- Jasnow, Aaron (2011), Associate Professor, Ph.D., Georgia State University, 2002
- Jones, Bryan A. (2010), Associate Professor, Ph.D., State University of New York, Stony Brook, 2007
- Joynes, Robin L. (2000), Associate Professor, Ph.D., Texas A&M University, Main Campus, 1998
- Keiller, Scott W. (1989), Assistant Professor, Ph.D., Kent State University, 1997
- Larwin, David A. (1985), Senior Lecturer, M.A., Kent State University, 1989
- Lechner, William (2017), Assistant Professor, Ph.D., Oklahoma State University, 2015
- Merriman, William E. (1985), Professor, Ph.D., University of Minnesota, Twin Cities, 1984
- Miller, Eric D. (1999), Associate Professor, Ph.D., University of Iowa, 1999
- Moore, Zachariah (2003), Assistant Professor, Ph.D., Kent State University, 2006
- Neal-Barnett, Angela M. (1989), Professor, Ph.D., DePaul University, 1988
- Rawson, Katherine A. (2004), Professor, Ph.D., University of Colorado, Boulder, 2004
- Sato, Amy F. (2012), Associate Professor, Ph.D., University of Wisconsin, Milwaukee, 2009
- Sciartelli, Sharon M. (2007), Professor, Ph.D., Kent State University, 1995
- Sefcek, Jon A. (2011), Associate Professor, Ph.D., University of Arizona, 2007
- Shepherd, James B. (1986), Assistant Professor, Ph.D., Kent State University, 1996
- Spitznagel, Mary Beth (2009), Associate Professor, Ph.D., Ohio University, 2003
- Tabak, Melanie A. (2003), Assistant Professor, Ph.D., Kent State University, 2008
- Taber, Jennifer M. (2016), Assistant Professor
- Thompson, Clarissa A. (2014), Associate Professor, Ph.D., The Ohio State University, 2008
- Tkacz, Sharon (1993), Associate Professor, Ph.D., Bowling Green State University, 1981
- Tomich, Patricia L. (1994), Associate Professor, Ph.D., Kent State University, 2000
- Updegraff, Alanna S. (2012), Associate Professor, Ph.D., University of California, Los Angeles, 2003
- Updegraff, John A. (2004), Professor, Ph.D., University of California, Los Angeles, 2002
- Van Dulmen, Manfred H. (2004), Professor & Interim Associate Provost, Ph.D., University of Minnesota, Twin Cities, 2001
- Was, Christopher A. (2005), Associate Professor, Ph.D., University of Utah, 2005
- Weigold, Arne (2019), Associate Professor, Ph.D., Texas Tech University, 2008
- Wildman, Beth G. (1982), Professor, Ph.D., University of North Carolina, Chapel Hill, 1977
- Zaragoza, Maria S. (1984), Professor & Department Chair, Ph.D., Johns Hopkins University, 1984

## Department of Sociology Faculty

- Adams, Richard E. (2007), Professor & Chair, Ph.D., Indiana University, Bloomington, 1989
- Berard, Timothy J. (2002), Associate Professor, Ph.D., Boston University, 2001
- Bergin, Tiffany (2013), Assistant Professor, Ph.D., University of Cambridge, 2011
- Bloch, Katrina R. (2008), Associate Professor, Ph.D., North Carolina State University, 2009
- Callanan, Valerie (2005), Professor
- Campbell, Beth A. (2005), Professor, Ph.D., University of Akron, 2018
- Catto, Rebecca (2016), Assistant Professor
- Chopko, Brian A. (2007), Professor, Ph.D., University of Akron, 2007
- Drinkard, Allyson M. (2000), Assistant Professor, Ph.D., Kent State University, 2012
- Drum, Marna C. (2003), Senior Lecturer, M.A., University of Akron, 1994
- Dum, Christopher (2014), Assistant Professor, Ph.D., University at Albany, SUNY, 2014
- Fisk, Susan R. (2015), Assistant Professor, Ph.D., Stanford University, 2015
- Foster, Michelle L. (2010), Assistant Professor, M.A., Kent State University, 2011
- Gallagher, Mary N. (2001), Associate Professor, Ph.D., Kent State University, 2012
- Gibson, Gregory C. (2012), Associate Professor, Ph.D., Purdue University, 2008
- Globokar, Julie L. (2011), Associate Professor, University of Illinois at Chicago
- Goar, Carla D. (2010), Associate Professor, Ph.D., Texas A&M University, 2000
- Graff, David R. (1994), Senior Lecturer, M.S., Mercyhurst College, 1984
- Haas, Anne E. (1996), Associate Professor, Ph.D., The Ohio State University, 2005
- Jones, Adrian M. (2001), Associate Professor, Ph.D., Kent State University, 2002
- Kalkhoff, William W. (2002), Professor, Ph.D., University of Iowa, 2002
- Kessler, David A. (1995), Associate Professor, Ph.D., Indiana University

- Kunkle, Susan M. (2004), Associate Professor, Ph.D., Kent State University, 2011
- Leveto, Jessica A. (2005), Associate Professor, Ph.D., Kent State University, 2012
- Licuanan-Galela, Maria N. (1995), Associate Professor, Ph.D., University of Illinois, Urbana-Champaign, 1995
- Lowery, Allen (2014), Assistant Professor
- Marcussen, Kristen A. (2000), Associate Professor, Ph.D., University of Iowa, 2000
- Mastriacovo, Paul A. (1982), Senior Lecturer, J.D., University of Akron, 1978
- Nasheri, Hedieh (1990), Professor
- Owens, Timothy J. (2010), Professor, Ph.D., University of Minnesota-Twin Cities, 1988
- Pai, Manacy (2008), Associate Professor, Ph.D., Florida State University, 2008
- Pollock, Joshua W. (2014), Assistant Professor, Ph.D., University of Akron, 2014
- Purifoye, Gwendolyn (2014), Assistant Professor, Ph.D., Loyola University Chicago, 2014
- Rawlings, Lynette M. (2007), Senior Lecturer, M.P.A., Kent State University, 2006
- Ray, Kasey (2015), Assistant Professor, Ph.D., University of Akron, 2015
- Robinson, Kristenne M. (2019), Assistant Professor
- Rose, Lydia (2010), Assistant Professor, Ph.D., Purdue University, 1997
- Rose, Norman R. (2007), Associate Professor
- Roxburgh, Susan J. (1994), Professor
- Schiller, J. Zach (2006), Assistant Professor, Ph.D., University of California, Davis, 2005
- Shura, Robin A. (2018), Assistant Professor, Ph.D., Case Western Reserve, 2010
- Solomon, Starr (2018), Assistant Professor, Ph.D., University of Nebraska Omaha, 2018
- Spates, Kamesha (2013), Assistant Professor, Ph.D., Texas A&M University, Corpus Christi, 2009
- Stacey, Clare L. (2006), Associate Professor, Ph.D., University of California, Davis, 2004
- Taylor, Tiffany L. (2008), Associate Professor, Ph.D., North Carolina State University at Raleigh, 2008
- Tontodonato, Pamela (1987), Associate Professor, Ph.D., University of Pennsylvania, 1986
- Vander Horst, Anthony (2011), Associate Professor, The Ohio State University, 2012
- Warren, Deirdre M. (2009), Associate Professor, Ph.D., Sam Houston State University, 2009
- Wilson, Mary G. (1998), Associate Professor, Ph.D., Kent State University, 2010
- Hancock, Landon E. (2006), Professor, Ph.D., George Mason University, 2003
- Koopman, Sara (2017), Assistant Professor, Ph.D., University of British Columbia, 2012
- Solomon, Johanna A. (2017), Assistant Professor

## Courses

### College of Arts and Sciences

#### Biotechnology (BTEC)

##### **BTEC 10210 INTRODUCTION TO BIOTECHNOLOGY 3 Credit Hours**

Basic principles and applications of modern biotechnology, including recombinant DNA technology, microbial technology, fermentation, genetic engineering, plant and animal tissue culture and medical biotechnology. Lecture three hours weekly.

**Prerequisite:** BSCI 10120.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

##### **BTEC 40191 SEMINAR: RECENT DEVELOPMENTS IN BIOTECHNOLOGY 1 Credit Hour**

Recent developments in biotechnology explored through the presentation and discussion of research articles and reviews in the biotechnology literature.

**Prerequisite:** BTEC 10210; BSCI 30140, 30171, 30156; CHEM 30284.

**Schedule Type:** Seminar

**Contact Hours:** 1 other

**Grade Mode:** Standard Letter

##### **BTEC 40192 INTERNSHIP IN BIOTECHNOLOGY (ELR) 2-9 Credit Hours**

(Repeatable for credit) Work experience in a biotechnology laboratory. Registration requires approval of program director and is dependent on availability of internship sites. Written report of activities required.

**Prerequisite:** Biotechnology major.

**Schedule Type:** Practical Experience

**Contact Hours:** 2-9 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**Attributes:** Experiential Learning Requirement

##### **BTEC 40196 INDIVIDUAL INVESTIGATION IN BIOTECHNOLOGY (ELR) 2-9 Credit Hours**

(Repeatable for credit) Research experience in biotechnology. Registration requires approval of program director and research director. Written report required.

**Prerequisite:** Biotechnology major.

**Schedule Type:** Individual Investigation

**Contact Hours:** 2-9 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**Attributes:** Experiential Learning Requirement

### School of Peace and Conflict Studies Faculty

- Arai, Tatsushi (2019), Associate Professor
- Bleak, Jacquelyn K. (2014), Lecturer, M.S., George Mason University, 2012
- Cunningham, Karen D. (1990), Professor, J.D., Washington and Lee University, 1986

**BTEC 40210 CASE STUDIES IN BIOTECHNOLOGY (WIC) 3 Credit Hours**

Case studies used to explore biotechnology practice and the application of various technologies in industry and medicine. Emphasis placed on developing problem solving, information gathering, inductive reasoning and technical communication skills.

**Prerequisite:** BTEC 10210; BSCI 30140, 30171, 30156, 40158; CHEM 30284, 40248.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Writing Intensive Course

**BTEC 40220 BIOINFORMATICS 3 Credit Hours**

(Cross-listed with BSCI 40220, BSCI 50220 and BSCI 70220) Analysis of biological databases, including nucleic acid and protein sequence searching, multiple sequence alignment, protein classification, phylogenetic analysis, comparative genomics, proteomics, protein structure analysis.

**Prerequisite:** BSCI 30140 and BSCI 30156 and BSCI 40158.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**BTEC 40463 MEDICAL BIOTECHNOLOGY 3 Credit Hours**

(Cross-listed with BSCI 40463, BSCI 50463 and BSCI 70463) Medical Biotechnology provides a basic understanding of how living cells and cellular materials can be used for medical applications, particularly in the diagnosis and therapy of human diseases.

**Prerequisite:** BSCI 30140.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Materials Science (MTSC)****MTSC 60199 THESIS I 2-6 Credit Hours**

Thesis students must register for a total of 6 credit hours, 2 to 6 credit hours in a single semester or distributed over two semesters if desired.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Masters Thesis

**Contact Hours:** 2-6 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**MTSC 60299 THESIS II 2 Credit Hours**

Thesis students must continually register each semester until all degree requirements are met.

**Prerequisite:** MTSC 60199; and graduate standing.

**Schedule Type:** Masters Thesis

**Contact Hours:** 2 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**MTSC 60498 RESEARCH 1-15 Credit Hours**

(Repeatable for credit) Research or individual investigation. Credits earned may be applied toward meeting degree requirements with department approval. **Prerequisite:** Graduate standing; and special approval

**Schedule Type:** Research

**Contact Hours:** 3-45 other

**Grade Mode:** Satisfactory/Unsatisfactory

**MTSC 62241 STATISTICAL MECHANICS OF SOFT MATTER 3 Credit Hours**

(Slashed with MTSC 72241) Lectures on order, disorder and phase transitions in soft matter. Materials include magnets, gases, liquids, crystalline and amorphous solids and liquid crystals. Theoretical concepts include order parameters to describe broken symmetry, mean-field theory, Landau theory for uniform and nonuniform systems, elasticity of orientational order and topological defects.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MTSC 62242 CHARACTERIZATION OF SOFT MATTER 3 Credit Hours**

(Slashed with MTSC 72242) Course provides students with the fundamentals of the most commonly used techniques for the study and understanding of soft matter at the macroscopic and microscopic level, especially at the nanometer scale. The advancement in basic soft matter research is generally driven by the experimental techniques available and the interdisciplinary knowledge among condensed matter physicists, biologists, synthetic and physical chemists, as well as chemical and polymer engineers.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MTSC 62245 FUNDAMENTALS OF LIQUID CRYSTAL SCIENCE 4 Credit Hours**

(Slashed with MTSC 72245) Basic liquid crystals structures and their main physical properties, such as visco-elastic, electric, magnetic and optical properties, except the nature of their phase transitions. Also discussed are their interactions with surfaces and the structural defects that they can form.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 4 lecture

**Grade Mode:** Standard Letter

**MTSC 62248 LIQUID CRYSTAL OPTICS AND PHOTONICS 4 Credit Hours**

(Slashed with MTSC 72248) Optics of cholesterics, liquid crystalline photonic bandgap materials, nonlinear optics of liquid crystals; optomechanical effects in liquid crystal elastomers.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 4 lecture

**Grade Mode:** Standard Letter

**MTSC 62249 LABVIEW FOR DATA ACQUISITION AND INSTRUMENT CONTROL 1 Credit Hour**

(Slashed with MTSC 72249) Introduction to laboratory data acquisition and instrument control using LabVIEW software.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 1 lecture

**Grade Mode:** Satisfactory/Unsatisfactory

**MTSC 62335 ADVANCED LIQUID CRYSTALLINE AND POLYMERIC MATERIALS 4 Credit Hours**

(Slashed with MTSC 72335) Course introduce students to recent advances in liquid crystals and polymers with emphasis on structure-property relationships, physical and optical properties, and their applications. Liquid crystals and polymers are soft matters of two important disciplines of science and technology. They both have a similar history and are rich in physical and optical properties useful for fundamental and applied research.

**Prerequisite:** Graduate standing.

**Schedule Type:** Laboratory, Lecture, Combined Lecture and Lab

**Contact Hours:** 3 lecture, 2 lab

**Grade Mode:** Standard Letter

**MTSC 62450 LIQUID CRYSTAL OPTICS I: THEORY 2 Credit Hours**

(Slashed with MTSC 72450) Provides an introduction to optical phenomena with an emphasis on liquid crystals, from geometrical optics to Maxwell's equations. Basic principles are used to analyze and solve optics problems arising in liquid crystal engineering.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**MTSC 62452 LIQUID CRYSTAL OPTICS II: OPTICAL SYSTEMS 2 Credit Hours**

(Slashed with MTSC 72452) Focuses on the study of practical optical systems with an emphasis on liquid crystals. Students study the principles of optical system design starting with the understanding of basic optical components such as lenses, mirrors, filters and polarizers. Practical concepts and techniques for the implementation of optical instruments and displays are mastered through lectures and lab work.

**Prerequisite:** MTSC 62450; and graduate standing.

**Schedule Type:** Laboratory, Lecture, Combined Lecture and Lab

**Contact Hours:** 1 lecture, 2 lab

**Grade Mode:** Standard Letter

**MTSC 62460 LIQUID CRYSTAL MATERIALS SCIENCE 2 Credit Hours**

(Slashed with MTSC 72460) Familiarizes students with the basic, underlying chemical concepts in liquid crystal science. These concepts include molecular structures and properties of liquid crystal molecules, miscibility rules and micro-segregation of chemically incompatible molecular segments, physical and electronic properties of aromatic compounds including heterocycles and fluorinated aromatics, properties of aliphatic and perfluorinated hydrocarbons, unsaturation, and chirality. Other aspects covered in later sections of this course relate to auxiliary and novel materials used in liquid crystal devices such as polymers, carbon nanomaterials, metal and semiconductor nanoparticles and photo-responsive organic materials.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**MTSC 62462 LIQUID CRYSTAL SCIENCE: PHYSICAL PROPERTIES 3 Credit Hours**

(Slashed with MTSC 72462) Basics of liquid crystal defects and their behavior in magnetic and electric fields.

**Prerequisite:** Graduate standing.

**Pre/corequisite:** MTSC 62460.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MTSC 62640 LIQUID CRYSTAL, POLYMER AND COLLOID COMPOSITES 4 Credit Hours**

(Slashed with MTSC 72640) Interdisciplinary science of systems consisting of liquid crystal, polymer and colloid. Statistical physics of composite systems, mixing free energy, phase separation principle, phase diagrams and phase separation dynamics. States, structures and free energies of liquid crystal, polymer and colloidal systems. Polymer dispersed liquid crystals (PDLC), polymer stabilized liquid crystals (PSCT) and their applications. Laboratory experiments on composite systems and fabrication of PDLC and PSCT light shutters.

**Prerequisite:** Graduate standing.

**Schedule Type:** Laboratory, Lecture, Combined Lecture and Lab

**Contact Hours:** 3 lecture, 2 lab

**Grade Mode:** Standard Letter

**MTSC 62643 ELECTRO-OPTICS OF LIQUID CRYSTALS: MODELING AND DEVICE DESIGN 3 Credit Hours**

(Slashed with MTSC 72643) Apply knowledge of liquid crystals and optics to the design of liquid crystal electro-optical devices. Emphasis is on modeling of devices and the use of that modeling to optimize device characteristics. Several particular device designs are considered to familiarize students with the state of the art in electro-optical applications of liquid crystals and to prepare them to advance the art in future designs.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MTSC 62647 STRUCTURED FLUIDS 3 Credit Hours**

(Slashed with MTSC 72647) The basics of fluids having internal structures, such as long range orientational order and or one and two dimensional positional order. Materials include thermotropic smetic, lamellar lyotropic and columnar liquid crystals, soap films, fluid foams, fluid fibers and Langmuir monolayers.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MTSC 62650 COMPUTATIONAL MATERIALS SCIENCE 3 Credit Hours**

(Slashed with MTSC 72650) Materials modeling at the classical (i.e. non-quantum) level. Monte Carlo methods; molecular dynamics simulation; mesoscale models; numerical methods; case studies.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MTSC 62651 NANOTECHNOLOGY 3 Credit Hours**

(Slashed with MTSC 72651) Course presents the concepts, principles and the state-of-the-arts of nanotechnologies and their applications in biological and biomedical science and engineering. Focus is on the fundamental physical principles and engineering technologies of device miniaturization and system integration for bioapplications.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter



**MTSC 63000 PHYSICS OF SOFT MATTER 3 Credit Hours**

(Slashed with MTSC 73000) Students learn the basics of physics of soft matter, including polymers, liquid crystals, colloids, reduced dimensionality fluids and active matter. Course provides students a coherent and deep understanding of the most important concepts and scientific results of soft matter, such as nano-, and microscopic structures, mechanical, electrical and optical properties.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MTSC 63010 LYOTROPIC LIQUID CRYSTALS 3 Credit Hours**

(Slashed with MTSC 73010) Course covers the fundamentals and the chemical aspects of different types of lyotropic liquid crystals (organic, inorganic, composites) leading to a discussion of phase diagrams and a comprehensive discussion of the characterization techniques of lyotropic liquid crystals. Focuses on some key aspects related to the use of lyotropic liquid crystals in pharmacological and medical applications such as drug delivery and the use of lyotropic liquid crystals as templates or 'reactors' for nanoscale synthesis and mesoscale manufacturing.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MTSC 63015 CHEMISTRY OF SOFT MATTER 3 Credit Hours**

(Slashed with MTSC 73015) Course familiarizes students with the basic underlying chemical concepts in soft matter science, focusing on the most important chemical building blocks in soft matter, IUPAC rules for naming them, miscibility rules and micro-segregation of chemically incompatible molecular segments, physical and electronic properties of aromatic compounds, including heterocyclic and fluorinated aromatics, properties of aliphatic and perfluorinated hydrocarbons, unsaturation, structure-property relationships and all levels of chirality (molecular to supramolecular). Other topics focus on specific types of materials explored in soft matter such as polymers, liquid crystals, carbon nanomaterials, metal and semiconductor nanoparticles and light-responsive organic materials, gels, foams and colloids.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MTSC 63020 APPLICATIONS OF SOFT MATTER 3 Credit Hours**

(Slashed with MTSC 73020) Course covers the applications of soft matter that include electro-optical, sensor and biological applications. Recent developments related to emerging applications are covered.

**Prerequisite:** MTSC 63000; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MTSC 63025 ACTIVE MATTER 2 Credit Hours**

(Slashed with MTSC 73025) The course is designed to teach the science of active matter which embraces a broad range of dynamic out-of-equilibrium systems comprised of interacting units that are capable of converting stored energy or the energy of the environment into systematic motion. Examples include colloids powered by an electric field, swimming bacteria and living liquid crystals. Theoretical models considered are Vicsek model and Toner-Tu model. The course will provide a coherent picture of the dynamic out-of-equilibrium phenomena.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**MTSC 63100 EMERGING DISPLAY TECHNOLOGIES 2 Credit Hours**

(Slashed with MTSC 73100) This course focuses on the fundamentals and applications of latest display technologies in transmissive, reflective and emissive displays as well as free-space display technologies. This course is aimed for students who wish to learn more, not limited to liquid crystal devices and applications, but also wide ranges of current and future display technologies, and will intergrate among materials science, physics and engineering with display technologies ranging from direct-view, flexible, wearable and free-space displays.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**MTSC 64491 SEMINAR: LIQUID CRYSTALS 1 Credit Hour**

(Repeatable for credit)(Slashed with MTSC 74491) Discussion of current literature or original research in liquid crystals. Participation by students, faculty and guests.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Seminar

**Contact Hours:** 1 other

**Grade Mode:** Satisfactory/Unsatisfactory

**MTSC 64495 SPECIAL TOPICS IN CHEMICAL PHYSICS 1-3 Credit Hours**

(Repeatable for credit)(Slashed with MTSC 74495) Topic varies per course offering.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 1-3 lecture

**Grade Mode:** Standard Letter

**MTSC 65006 LIQUID CRYSTAL DEVICE PROTOTYPING 2 Credit Hours**

(Slashed with MTSC 75006) Liquid crystal device prototyping; introduction to liquid crystal device manufacturing methods.

**Prerequisite:** Graduate standing.

**Schedule Type:** Laboratory, Lecture, Combined Lecture and Lab

**Contact Hours:** 1 lecture, 2 lab

**Grade Mode:** Standard Letter

**MTSC 65008 LIQUID CRYSTAL DEVICE CONSTRUCTION 1 Credit Hour**

(Slashed with MTSC 75008) Students acquire the knowledge and experience in basic techniques and procedures for the construction of liquid crystal cells. Students are prepared for successive lab courses and the capstone project based on the clean-room techniques, ITO glass handling, film deposition, surface alignment treatment and cell assembly experienced.

**Prerequisite:** Graduate standing.

**Schedule Type:** Laboratory

**Contact Hours:** 2 lab

**Grade Mode:** Standard Letter

**MTSC 65032 SCIENTIFIC COMMUNICATION 1 Credit Hour**

(Slashed with MTSC 75032) Course aims to help graduate students in STEM fields improve their skills in scientific writing and presentations. Activities include a mock panel review of scientific proposals. Students produce a final paper that could serve as the introductory chapter of a thesis or dissertation.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 1 lecture

**Grade Mode:** Standard Letter

**MTSC 65098 MASTER'S PROJECT: ENGINEERING APPLICATIONS OF LIQUID CRYSTALS 6 Credit Hours**

Course offers an opportunity for students to carry out a project that aims to develop a liquid crystal device for a particular application, experiencing the complete development process from the field analysis, idea generation, concept design, feasibility study, implementation and testing.

**Prerequisite:** MTSC 62450; and MTSC 62452; and MTSC 62460; and MTSC 62462; and MTSC 65008; and graduate standing.

**Schedule Type:** Research

**Contact Hours:** 6 other

**Grade Mode:** Standard Letter-IP

**MTSC 72241 STATISTICAL MECHANICS OF SOFT MATTER 3 Credit Hours**

(Slashed with MTSC 62241) Lectures on order, disorder and phase transitions in soft matter. Materials include magnets, gases, liquids, crystalline and amorphous solids and liquid crystals. Theoretical concepts include order parameters to describe broken symmetry, mean-field theory, Landau theory for uniform and nonuniform systems, elasticity of orientational order and topological defects.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MTSC 72242 CHARACTERIZATION OF SOFT MATTER 3 Credit Hours**

(Slashed with MTSC 62242) Course provides students with the fundamentals of the most commonly used techniques for the study and understanding of soft matter at the macroscopic and microscopic level, especially at the nanometer scale. The advancement in basic soft matter research is generally driven by the experimental techniques available and the interdisciplinary knowledge among condensed matter physicists, biologists, synthetic and physical chemists, as well as chemical and polymer engineers.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MTSC 72245 FUNDAMENTALS OF LIQUID CRYSTAL SCIENCE 4 Credit Hours**

(Slashed with MTSC 62245) Basic liquid crystals structures and their main physical properties, such as visco-elastic, electric, magnetic and optical properties, except the nature of their phase transitions. Also discussed are their interactions with surfaces and the structural defects that they can form.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 4 lecture

**Grade Mode:** Standard Letter

**MTSC 72248 LIQUID CRYSTAL OPTICS AND PHOTONICS 4 Credit Hours**

(Slashed with MTSC 62248) Optics of cholesterics, liquid crystalline photonic bandgap materials, nonlinear optics of liquid crystals; optomechanical effects in liquid crystal elastomers.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 4 lecture

**Grade Mode:** Standard Letter

**MTSC 72249 LABVIEW FOR DATA ACQUISITION AND INSTRUMENT CONTROL 1 Credit Hour**

(Slashed with MTSC 62249) Introduction to laboratory data acquisition and instrument control using LabVIEW software.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 1 lecture

**Grade Mode:** Satisfactory/Unsatisfactory

**MTSC 72335 ADVANCED LIQUID CRYSTALLINE AND POLYMERIC MATERIALS 4 Credit Hours**

(Slashed with MTSC 62335) Course introduce students to recent advances in liquid crystals and polymers with emphasis on structure-property relationships, physical and optical properties, and their applications. Liquid crystals and polymers are soft matters of two important disciplines of science and technology. They both have a similar history and are rich in physical and optical properties useful for fundamental and applied research.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Laboratory, Lecture, Combined Lecture and Lab

**Contact Hours:** 3 lecture, 2 lab

**Grade Mode:** Standard Letter

**MTSC 72450 LIQUID CRYSTAL OPTICS I: THEORY 2 Credit Hours**

(Slashed with MTSC 62450) Provides an introduction to optical phenomena with an emphasis on liquid crystals, from geometrical optics to Maxwell's equations. Basic principles are used to analyze and solve optics problems arising in liquid crystal engineering.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**MTSC 72452 LIQUID CRYSTAL OPTICS II: OPTICAL SYSTEMS 2 Credit Hours**

(Slashed with MTSC 62452) Focuses on the study of practical optical systems with an emphasis on liquid crystals. Students study the principles of optical system design starting with the understanding of basic optical components such as lenses, mirrors, filters and polarizers. Practical concepts and techniques for the implementation of optical instruments and displays are mastered through lectures and lab work.

**Prerequisite:** MTSC 72450; and doctoral standing.

**Schedule Type:** Laboratory, Lecture, Combined Lecture and Lab

**Contact Hours:** 1 lecture, 2 lab

**Grade Mode:** Standard Letter

**MTSC 72460 LIQUID CRYSTAL MATERIALS SCIENCE 2 Credit Hours**

(Slashed with MTSC 62460) Familiarizes students with the basic, underlying chemical concepts in liquid crystal science. These concepts include molecular structures and properties of liquid crystal molecules, miscibility rules and micro-segregation of chemically incompatible molecular segments, physical and electronic properties of aromatic compounds including heterocycles and fluorinated aromatics, properties of aliphatic and perfluorinated hydrocarbons, unsaturation, and chirality. Other aspects covered in later sections of this course relate to auxiliary and novel materials used in liquid crystal devices such as polymers, carbon nanomaterials, metal and semiconductor nanoparticles and photo-responsive organic materials.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**MTSC 72462 LIQUID CRYSTAL SCIENCE: PHYSICAL PROPERTIES 3 Credit Hours**

(Slashed with MTSC 62462) Basics of liquid crystal defects and their behavior in magnetic and electric fields.

**Prerequisite:** Doctoral standing.

**Pre/corequisite:** MTSC 72460.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MTSC 72640 LIQUID CRYSTAL, POLYMER AND COLLOID COMPOSITES 4 Credit Hours**

(Slashed with MTSC 62640) Interdisciplinary science of systems consisting of liquid crystal, polymer and colloid. Statistical physics of composite systems, mixing free energy, phase separation principle, phase diagrams and phase separation dynamics. States, structures and free energies of liquid crystal, polymer and colloidal systems. Polymer dispersed liquid crystals (PDLC), polymer stabilized liquid crystals (PSLC) and their applications. Laboratory experiments on composite systems and fabrication of PDLC and PSLC light shutters.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Laboratory, Lecture, Combined Lecture and Lab

**Contact Hours:** 3 lecture, 2 lab

**Grade Mode:** Standard Letter

**MTSC 72643 ELECTRO-OPTICS OF LIQUID CRYSTALS: MODELING AND DEVICE DESIGN 3 Credit Hours**

(Slashed with MTSC 62643) Apply knowledge of liquid crystals and optics to the design of liquid crystal electro-optical devices. Emphasis is on modeling of devices and the use of that modeling to optimize device characteristics. Several particular device designs are considered to familiarize students with the state of the art in electro-optical applications of liquid crystals and to prepare them to advance the art in future designs.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MTSC 72647 STRUCTURED FLUIDS 3 Credit Hours**

(Slashed with MTSC 62647) The basics of fluids having internal structures, such as long range orientational order and or one and two dimensional positional order. Such materials include thermotropic smectic, lamellar lyotropic and columnar liquid crystals, soap films, fluid foams, fluid fibers and Langmuir monolayers.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MTSC 72650 COMPUTATIONAL MATERIALS SCIENCE 3 Credit Hours**

(Slashed with MTSC 62650) Materials modeling at the classical (i.e. non-quantum) level. Monte Carlo methods; molecular dynamics simulation; mesoscale models; numerical methods; case studies.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MTSC 72651 NANOTECHNOLOGY 3 Credit Hours**

(Slashed with MTSC 62651) Course presents the concepts, principles and the state-of-the-arts of nanotechnologies and their applications in biological and biomedical science and engineering. Focus is on the fundamental physical principles and engineering technologies of device miniaturization and system integration for bioapplications.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MTSC 73000 PHYSICS OF SOFT MATTER 3 Credit Hours**

(Slashed with MTSC 63000) Students learn the basics of physics of soft matter, including polymers, liquid crystals, colloids, reduced dimensionality fluids and active matter. Course provides students a coherent and deep understanding of the most important concepts and scientific results of soft matter, such as nano-, and microscopic structures, mechanical, electrical and optical properties.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MTSC 73010 LYOTROPIC LIQUID CRYSTALS 3 Credit Hours**

(Slashed with MTSC 63010) Course covers the fundamentals and the chemical aspects of different types of lyotropic liquid crystals (organic, inorganic, composites) leading to a discussion of phase diagrams and a comprehensive discussion of the characterization techniques of lyotropic liquid crystals. Focuses on some key aspects related to the use of lyotropic liquid crystals in pharmacological and medical applications such as drug delivery and the use of lyotropic liquid crystals as templates or 'reactors' for nanoscale synthesis and mesoscale manufacturing.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MTSC 73015 CHEMISTRY OF SOFT MATTER 3 Credit Hours**

(Slashed with MTSC 63015) Course familiarizes students with the basic underlying chemical concepts in soft matter science, focusing on the most important chemical building blocks in soft matter, IUPAC rules for naming them, miscibility rules and micro-segregation of chemically incompatible molecular segments, physical and electronic properties of aromatic compounds, including heterocyclic and fluorinated aromatics, properties of aliphatic and perfluorinated hydrocarbons, unsaturation, structure-property relationships and all levels of chirality (molecular to supramolecular). Other topics focus on specific types of materials explored in soft matter such as polymers, liquid crystals, carbon nanomaterials, metal and semiconductor nanoparticles and light-responsive organic materials, gels, foams and colloids.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MTSC 73020 APPLICATIONS OF SOFT MATTER 3 Credit Hours**

(Slashed with MTSC 63020) Course covers the applications of soft matter that include electro-optical, sensor and biological applications. Recent developments related to emerging applications are covered.

**Prerequisite:** MTSC 73000; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MTSC 73025 ACTIVE MATTER 2 Credit Hours**

(Slashed with MTSC 63025) The course is designed to teach the science of active matter which embraces a broad range of dynamic out-of-equilibrium systems comprised of interacting units that are capable of converting stored energy or the energy of the environment into systematic motion. Examples include colloids powered by an electric field, swimming bacteria and living liquid crystals. Theoretical models considered are Vicsek model and Toner-Tu model. The course will provide a coherent picture of the dynamic out-of-equilibrium phenomena.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**MTSC 73100 EMERGING DISPLAY TECHNOLOGIES 2 Credit Hours**

(Slashed with MTSC 63100) This course focuses on the fundamentals and applications of latest display technologies in transmissive, reflective and emissive displays as well as free-space display technologies. This course is aimed for students who wish to learn more, not limited to liquid crystal devices and applications, but also wide ranges of current and future display technologies, and will intergrate among materials science, physics and engineering with display technologies ranging from direct-view, flexible, wearable and free-space displays.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**MTSC 74491 SEMINAR: LIQUID CRYSTALS 1 Credit Hour**

(Repeatable for credit)(Slashed with MTSC 64491) Discussion of current literature or original research in liquid crystals. Participation by students, faculty and guests.

**Prerequisite:** Doctoral standing; and special approval.

**Schedule Type:** Seminar

**Contact Hours:** 1 other

**Grade Mode:** Satisfactory/Unsatisfactory

**MTSC 74495 SPECIAL TOPICS IN CHEMICAL PHYSICS 1-3 Credit Hours**

(Repeatable for credit)(Slashed with MTSC 64495) Topic varies per course offering.

**Prerequisite:** Doctoral standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 1-3 lecture

**Grade Mode:** Standard Letter

**MTSC 75006 LIQUID CRYSTAL DEVICE PROTOTYPING 2 Credit Hours**

(Slashed with MTSC 65006) Liquid crystal device prototyping; introduction to liquid crystal device manufacturing methods.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Laboratory, Lecture, Combined Lecture and Lab

**Contact Hours:** 1 lecture, 2 lab

**Grade Mode:** Standard Letter

**MTSC 75008 LIQUID CRYSTAL DEVICE CONSTRUCTION 1 Credit Hour**

(Slashed with MTSC 65008) Students acquire the knowledge and experience in basic techniques and procedures for the construction of liquid crystal cells. Students are prepared for successive lab courses and the capstone project based on the clean-room techniques, ITO glass handling, film deposition, surface alignment treatment and cell assembly experienced.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Laboratory

**Contact Hours:** 2 lab

**Grade Mode:** Standard Letter

**MTSC 75032 SCIENTIFIC COMMUNICATION 1 Credit Hour**

(Slashed with MTSC 65032) Course aims to help graduate students in STEM fields improve their skills in scientific writing and presentations. Activities include a mock panel review of scientific proposals. Students produce a final paper that could serve as the introductory chapter of a thesis or dissertation.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 1 lecture

**Grade Mode:** Standard Letter

**MTSC 80199 DISSERTATION I 15 Credit Hours**

(Repeatable for credit) Doctoral dissertation for which registration in at least two semesters is required, first of which will be semester in which dissertation work is begun, and continuing until the completion of 30 hours.

**Prerequisite:** Doctoral standing; and special approval.

**Schedule Type:** Dissertation

**Contact Hours:** 15 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**MTSC 80299 DISSERTATION II 15 Credit Hours**

(Repeatable for credit) Continuing registration required of doctoral students who have completed the initial 30 hours of dissertation and continuing until all degree requirements are met.

**Prerequisite:** MTSC 80199 and doctoral standing.

**Schedule Type:** Dissertation

**Contact Hours:** 15 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**MTSC 80498 RESEARCH 1-15 Credit Hours**

(Repeatable for credit) Research or individual investigation for doctoral student who has not yet passed candidacy exam. Credit earned may be applied toward degree.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Research

**Contact Hours:** 3-45 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**Neuroscience (NEUR)****NEUR 10100 SEMINAR IN NEUROSCIENCE 1 Credit Hour**

Course provides an overview of the neuroscience field, including areas of neuroscience research, foundational principles in neuroscience, current questions and techniques, career possibilities and examples of research being conducted by neuroscience faculty.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 1 lecture

**Grade Mode:** Satisfactory/Unsatisfactory

**NEUR 30100 NEUROSCIENCE I 3 Credit Hours**

(Crosslisted with BSCI 30100) Course covers basic principles in neuroscience, from the cellular to systems levels. Provides students a basic understanding of how the nervous system is organized, electrophysiology properties of neurons, sensory systems and motor pathways.

**Prerequisite:** BSCI 30140.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**NEUR 30200 NEUROSCIENCE II 3 Credit Hours**

(Cross-listed with BSCI 30200) Course builds off of the principles taught in Neuroscience I by providing more depth and breadth to the functioning of the nervous system. Course provides students a more complete understanding of the neuroanatomy, neurophysiology and neural circuitry involved in sensory processing, motor control and higher order cognitive functioning.

**Prerequisite:** NEUR 30100 or BSCI 30100.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**NEUR 30300 EXPERIMENTAL METHODS IN NEUROSCIENCE 1 Credit Hour**

(Cross-listed with BSCI 30300) Accompanying laboratory for NEUR 30200 or BSCI 30200. Course provides a greater depth of understanding into and hand-on experience with the principles discussed in NEUR 30200 or BSCI 30200. Course provides students a full understanding in the major research techniques used in neuroscience. The major topics covered include: electrophysiology, neuroanatomy, learning and memory, the neuromuscular junction and sensory perception. .

**Prerequisite:** NEUR 30100 or BSCI 30100 with minimum C grade.

**Pre/corequisite:** NEUR 30200 or BSCI 30200.

**Schedule Type:** Laboratory

**Contact Hours:** 3 lab

**Grade Mode:** Standard Letter

**NEUR 40192 INTERNSHIP IN NEUROSCIENCE (ELR) 3-12 Credit Hours**

Work experience and training in neuroscience under the supervision of appropriate personnel in a government agency, nonprofit organization or business.

**Prerequisite:** NEUR 30200; and special approval.

**Schedule Type:** Practical Experience

**Contact Hours:** 9-36 other

**Grade Mode:** Standard Letter

**Attributes:** Experiential Learning Requirement

**NEUR 40195 SPECIAL TOPICS IN NEUROSCIENCE 1-3 Credit Hours**

Topics in neuroscience vary per course offering.

**Prerequisite:** NEUR 30200.

**Schedule Type:** Laboratory, Lecture, Combined Lecture and Lab

**Contact Hours:** 1-3 lecture, 2-6 lab

**Grade Mode:** Standard Letter

**NEUR 40196 INDIVIDUAL INVESTIGATION IN NEUROSCIENCE 1-3 Credit Hours**

Research study under the guidance of a neuroscience faculty member.

**Prerequisite:** NEUR 30200

**Schedule Type:** Laboratory

**Contact Hours:** 3-9 lab

**Grade Mode:** Standard Letter

**Center for Comparative and Integrative Programs****Arts and Sciences (AS)****AS 10095 SPECIAL TOPICS 1-5 Credit Hours**

(Repeatable for credit) This program, administered by the dean, is intended to encourage interdisciplinary study to cover areas not treated adequately in traditional coursework and to make available promptly the new and significant experience of the faculty.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 1-5 lecture

**Grade Mode:** Standard Letter



**AS 10096 SCIENCE EXPERIENCE 1 Credit Hour**

Students will gain experience in research methods via participation in mentored hands-on science research projects. Each student will work on an individual basis in consultation with their assigned research mentor. Laboratory safety training is provided and required for the projects. Students must have completed or be co-enrolled in at least one college level (or advanced placement) class in a relevant STEM discipline.

**Prerequisite:** Special approval.

**Schedule Type:** Laboratory

**Contact Hours:** 3 lab

**Grade Mode:** Standard Letter-IP

**AS 20071 INTRODUCTION TO GENDER AND SEXUALITY STUDIES 3 Credit Hours**

Provides an introduction to the interdisciplinary study of gender and sexuality, with particular focus on the tenants of the field (e.g., intersectionality, anti-oppression, social justice).

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**AS 20095 SPECIAL TOPICS 1-5 Credit Hours**

(Repeatable for credit) This program, administered by the dean, is intended to encourage interdisciplinary study, to cover areas not treated adequately in traditional coursework and to make available promptly the new and significant experience of the faculty.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 1-5 lecture

**Grade Mode:** Standard Letter

**AS 30092 INTERNSHIP (ELR) 1-12 Credit Hours**

(Repeatable for a maximum of 12 credit hours) Students participate in internships under the direction of a faculty member.

**Prerequisite:** Special approval.

**Schedule Type:** Practical Experience

**Contact Hours:** 3-36 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**Attributes:** Experiential Learning Requirement

**AS 30095 SPECIAL TOPICS 1-5 Credit Hours**

(Repeatable for credit) This program, administered by the dean, is intended to encourage interdisciplinary study to cover areas not treated adequately in traditional coursework and to make available promptly the new and significant experience of the faculty.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 1-5 lecture

**Grade Mode:** Standard Letter

**AS 30171 THEORIES OF GENDER AND SEXUALITY 3 Credit Hours**

Provides students the opportunity to explore in finer detail the theories and approaches used in the study of gender and sexuality (including feminisms, queer theory, critical theories, intersectionality, anti-oppression, social justice), and to address the influence of such theoretical approaches in further research on the subjects of gender and sexuality and by informing social change and deliberations by individuals and movements concerning gender and sexuality.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**AS 30195 STUDY ABROAD: SPECIAL TOPICS (ELR) 1-3 Credit Hours**  
(Repeatable for credit) This course may be offered in conjunction with an academic study abroad opportunity.

**Prerequisite:** Special approval.

**Schedule Type:** Field Experience

**Contact Hours:** 1-3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Experiential Learning Requirement

**AS 30196 INDIVIDUAL INVESTIGATION 1-3 Credit Hours**

(Repeatable for credit) Registration requires prior approval from the College of Arts and Sciences office.

**Prerequisite:** Special approval.

**Schedule Type:** Individual Investigation

**Contact Hours:** 1-3 other

**Grade Mode:** Standard Letter

**AS 30295 STUDY AWAY: SPECIAL TOPICS (ELR) 1-3 Credit Hours**

(Repeatable for credit) This course may be offered in conjunction with an academic domestic study away opportunity.

**Prerequisite:** Special approval.

**Schedule Type:** Field Experience

**Contact Hours:** 3-9 other

**Grade Mode:** Standard Letter

**Attributes:** Experiential Learning Requirement

**AS 30798 GENDER AND SEXUALITY RESEARCH FORUM (ELR) 3 Credit Hours**

Allows students to do research in areas of gender and sexuality that connects to their own interests, which will be presented in public settings such as panels and presentations.

**Prerequisite:** None.

**Schedule Type:** Lecture, Research

**Contact Hours:** 1 lecture, 2 other

**Grade Mode:** Standard Letter

**Attributes:** Experiential Learning Requirement

**AS 40095 SPECIAL TOPICS 1-5 Credit Hours**

(Repeatable for credit) (Cross-listed with AS 50095 and AS 70095) This program, administered by the dean, is intended to encourage interdisciplinary study, to cover areas not treated adequately in traditional coursework and to make available promptly the new and significant experience of the faculty.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**AS 41099 CAPSTONE IN GENDER AND SEXUALITY STUDIES (ELR) 3 Credit Hours**

Students will be expected to design and implement an individualized exploration that demonstrates the interactions of theory and application, ideas and practice, and is reflective of the tenets of the interdisciplinary field of gender and sexuality.

**Prerequisite:** None.

**Schedule Type:** Lecture, Research

**Contact Hours:** 1 lecture, 2 other

**Grade Mode:** Standard Letter

**Attributes:** Experiential Learning Requirement

**AS 43001 LEGAL INFORMATION SOURCES AND SERVICES 3 Credit Hours**

(Cross-listed with AS 53001 and AS 73001 and LIS 60619 and LIS 80619) Fundamentals of legal research methods and major sources of American legal literature in print and electronic formats as used in other disciplines. Students learn how to formulate a research plan based on legal analysis of issues using relevant, authoritative legal resources.

**Prerequisite:** Senior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**AS 50095 SPECIAL TOPICS 1-5 Credit Hours**

(Repeatable for credit) (Cross-listed with AS 40095 and AS 70095) Topic to be announced in the schedule of classes booklet. Repeated registration permitted when content varies.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 1-5 lecture

**Grade Mode:** Standard Letter

**AS 50096 INDIVIDUAL INVESTIGATION 1-6 Credit Hours**

(Repeatable for credit) Pursuit of a subject matter beyond normal course coverage, supervised by a graduate faculty member.

**Prerequisite:** Graduate standing.

**Schedule Type:** Individual Investigation

**Contact Hours:** 1-6 other

**Grade Mode:** Standard Letter

**AS 53001 LEGAL INFORMATION SOURCES AND SERVICES 3 Credit Hours**

(Cross-listed with AS 43001 and AS 73001 and LIS 60619 and LIS 80619) Fundamentals of legal research methods and major sources of American legal literature in print and electronic formats as used in other disciplines. Students learn how to formulate a research plan based on legal analysis of issues using relevant, authoritative legal resources.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**AS 60092 INTERNSHIP 1-6 Credit Hours**

(Repeatable credit) Students participate in internships under the direction of a faculty member.

**Prerequisite:** Special approval.

**Schedule Type:** Practical Experience

**Contact Hours:** 3-18 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**AS 61000 METHODS AND APPROACHES TO MULTIDISCIPLINARY STUDIES 3 Credit Hours**

Methods and approaches to graduate-level multidisciplinary studies.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**AS 61001 LIBERAL STUDIES RESEARCH PAPER 1-3 Credit Hours**

Learning to write a graduate-level research paper.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Seminar

**Contact Hours:** 1-3 lecture

**Grade Mode:** Standard Letter-IP

**AS 61095 LIBERAL STUDIES SEMINAR 3 Credit Hours**

(Repeatable for credit) An interdisciplinary seminar designed for candidates in the liberal studies program. Topics will vary.

**Prerequisite:** None.

**Schedule Type:** Seminar

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**AS 61098 LIBERAL STUDIES ESSAY 3 Credit Hours**

(Repeatable for credit) The preparation of an essay of approximately 50 pages on a topic related to the student's program of study for the Master of Liberal Studies degree.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Research

**Contact Hours:** 3 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**AS 70095 SPECIAL TOPICS 1-5 Credit Hours**

(Repeatable for credit) (Cross-listed with AS 40095 and AS 50095) Topic to be announced in the schedule of classes booklet.

**Prerequisite:** Doctoral standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 1-5 lecture

**Grade Mode:** Standard Letter

**AS 70096 INDIVIDUAL INVESTIGATION 1-6 Credit Hours**

(Repeatable for credit) Pursuit of a subject matter beyond normal course coverage, supervised by a graduate faculty member.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Individual Investigation

**Contact Hours:** 1-6 other

**Grade Mode:** Standard Letter

**AS 73001 LEGAL INFORMATION SOURCES AND SERVICES 3 Credit Hours**

(Cross-listed with LIS 60619 and LIS 80619) (Slashed with AS 43001 and AS 53001) Fundamentals of legal research methods and major sources of American legal literature in print and electronic formats as used in other disciplines. Students learn how to formulate a research plan based on legal analysis of issues using relevant, authoritative legal resources.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Integrative Studies (IGST)****IGST 40099 SENIOR PROJECT (ELR) (WIC) 1-3 Credit Hours**

(Repeatable twice for credit) Senior Project is a thesis or independent study done under the supervision of a faculty advisor. Students need written approval of faculty advisor, faculty member's unit, or director of the Center for Comparative and Integrative Programs in order to enroll in this course.

**Prerequisite:** Senior standing in a multidisciplinary program in the center for comparative and integrative programs; and special approval.

**Schedule Type:** Senior Project/Honors Thesis

**Contact Hours:** 1-3 other

**Grade Mode:** Standard Letter-IP

**Attributes:** Experiential Learning Requirement, Writing Intensive Course

**IGST 40192 INTERNSHIP IN INTEGRATIVE STUDIES (ELR) 3-6 Credit Hours**

(Repeatable for credit) Internship.

**Prerequisite:** Special approval from the director of the center for comparative and integrative programs.

**Schedule Type:** Practical Experience

**Contact Hours:** 9-18 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**Attributes:** Experiential Learning Requirement

**Jewish Studies (JWST)****JWST 11001 INTRODUCTION TO JEWISH STUDIES 3 Credit Hours**

Introductory exploration and examination of the diversity of Jewish life, culture, religion and society from antiquity to the present.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**JWST 20011 INTRODUCTION TO THE HEBREW BIBLE OR OLD TESTAMENT 3 Credit Hours**

Introduces students to the modern study of the Hebrew Bible (Old Testament) and the history and religion of ancient Israel. Designed to help students to understand the development of the Hebrew Bible in its ancient context. The course approaches the Hebrew Bible from historical, comparative, literary, anthropological and archeological perspectives in an effort to illuminate the world of its authors. No prior knowledge of the Bible, Judaism or Christianity is required.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**JWST 30092 INTERNSHIP IN JEWISH STUDIES (ELR) 3-6 Credit Hours**

(Repeatable for credit) Internship in Jewish studies.

**Prerequisite:** Special approval.

**Schedule Type:** Practical Experience

**Contact Hours:** 9-18 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**Attributes:** Experiential Learning Requirement

**JWST 30100 JEWISH WOMEN IN THE MODERN WORLD 3 Credit Hours**

Course explores the lives and experiences of Jewish women from diverse communities and traditions, in relation to a wide array of divergent cultural contexts within the modern world.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**JWST 30200 JEWS, BASEBALL AND AMERICAN SPORTS 3 Credit Hours**

Chronicles the experience of Jewish players and performers in American sports. Course explores the issues of religious and ethnic prejudice that Jewish athletes endured, challenged and overcame.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**JWST 30300 CHILDREN OF THE HOLOCAUST: PERPETRATORS AND VICTIMS 3 Credit Hours**

Examination of the children directly affected by the Holocaust (whether as victims, perpetrators, heroes, rescuers or survivors) and the impact these children had on the Holocaust and on history.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**JWST 40095 SPECIAL TOPICS IN JEWISH STUDIES 3 Credit Hours**

(Repeatable for credit) Topics vary per course offering as published in the Schedule of Classes.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**JWST 40096 INDIVIDUAL INVESTIGATION 1-3 Credit Hours**

(Repeatable for credit) Student-initiated experience in an area of interest not covered by a regular course offering and with the guidance of a Kent State faculty member.

**Prerequisite:** Special approval.

**Schedule Type:** Individual Investigation

**Contact Hours:** 3-9 other

**Grade Mode:** Standard Letter

**Paralegal Studies (PLST)****PLST 18000 INTRODUCTION TO PARALEGAL STUDIES AND PROFESSIONAL ETHICS 3 Credit Hours**

An overview of the legal system and the role of a paralegal professional. Includes legal terminology, types of laws, research, litigation, interviewing and office management.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PLST 28001 LEGAL RESEARCH AND WRITING 3 Credit Hours**

In-depth analysis of the legal research process, development of legal writing skills, opportunities to utilize research and writing skills are integrated into the course.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PLST 28003 FAMILY LAW AND PROCEDURE 3 Credit Hours**

Designed to acquaint the student with family law substance and practice. Covers definitions, terminology, topical areas and the philosophy underlying family law practice.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PLST 28004 PRINCIPLES AND PRACTICE OF LITIGATION 3 Credit Hours**

Provides an introduction to the rules of civil procedure, statutes of limitation, and discovery. Included in this course is a discussion of the role of the paralegal in preparation for litigation.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PLST 28007 ESTATE AND PROBATE ADMINISTRATION 3 Credit Hours**

A study of legal principles applicable to wills, organization and jurisdiction of probate court, estate administration in probate and tax considerations in estate administration.

**Prerequisite:** PLST 18000.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PLST 30000 ENVIRONMENTAL PROTECTION REGULATIONS AND ASSESSMENT 3 Credit Hours**

The Federal and State environmental regulations including the National Environmental Policy Act, the Clean Air Act, the Clean Water Act, Solid and Hazardous Waste regulations (RCRA) and the Superfund Legislation require the utilization of trained environmental professionals to conduct Environmental Site Assessments (ESAs). The focus of this course is to introduce students to the methods and approaches for conducting environmental research and study of industrial sites with respect to environmental policies and regulations. The enforcement of regulations utilize environmental professionals who serve in governmental agencies, work in private environmental companies that provide assessments and consultations for industries, and who are employed by industries that seek qualified employees to conduct assessments, and provide professional guidance for industrial regulatory compliance.

**Prerequisite:** Junior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PLST 35001 ENVIRONMENTAL LAW FOR PARALEGALS 3 Credit Hours**

Acquaints the student with the various federal and state statutes, administrative rules and case law that govern environmental regulation. International environmental law is also studied.

**Prerequisite:** Sophomore standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PLST 35003 HEALTH LAW 3 Credit Hours**

Makes the student familiar with legal topics in the field of health care including federal and state statutes governing the health care industry in the United States. Specific topics include insurance, privacy, malpractice, fraud, Medicare, Medicaid, health records, labor law-related issues and clinical research.

**Prerequisite:** Sophomore standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PLST 35005 LABOR AND EMPLOYMENT LAW FOR PARALEGALS 3 Credit Hours**

Provides a foundation in the areas of labor law, employment law, and employment discrimination law. Requires in-depth study of constitutional, statutory, administrative, and case law at both the federal and state level.

**Prerequisite:** Sophomore standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PLST 35007 ENERGY AND NATURAL RESOURCES LAW 3 Credit Hours**

Acquaints the student with the various sources of law that govern energy production and the harvesting of natural resources in the United States.

Statutory, administrative, and case law at the federal and state levels are explored.

**Prerequisite:** Sophomore standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PLST 36792 INTERNSHIP IN PARALEGAL (ELR) 3-12 Credit Hours**

(Repeatable for credit) Work experience under direction of supervising faculty member in the following entities: private law firms, legal service/legal aid offices, law departments or corporations and government agencies.

**Prerequisite:** PLST 18000 and 28001 and 28004.

**Schedule Type:** Practical Experience

**Contact Hours:** 21-84 other

**Grade Mode:** Standard Letter-IP

**Attributes:** Experiential Learning Requirement

**PLST 38003 ADMINISTRATIVE LAW AND PROCESS 3 Credit Hours**

The substantive and procedural aspects of administrative law are covered in this course. Specific topics include the regulation of public utilities, transportation agencies, employment, food and drugs and the environment.

**Prerequisite:** Sophomore standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PLST 38005 TORT LAW 3 Credit Hours**

Focus is on tort and personal injury law. Specific topics include intentional torts, negligent torts, strict liability, vicarious liability, product liability and business torts. Defenses to tort and product liability are also discussed.

**Prerequisite:** Sophomore standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PLST 38006 APPLIED LEGAL RESEARCH AND LITIGATION (WIC) 3 Credit Hours**

Provides for intense case analysis and preparation of argumentative memorandum, including writing of factual memoranda, file summaries and advocacy letters.

**Prerequisite:** PLST 28001.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Writing Intensive Course

**PLST 42701 EVIDENCE AND E-DISCOVERY 3 Credit Hours**

Addresses the various issues concerning the use of evidence in the pre-trial, trial, and post-trial phases of litigation. The course will address the traditional rules and issues associated with litigation practice as well as the new issues concerning electronic discovery of evidence and the use of that evidence.

**Prerequisite:** PLST 28001; and PLST 28004.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PLST 42705 BANKRUPTCY LAW I: BASIC FUNDAMENTALS 3 Credit Hours**

Provides an outlay of the fundamentals of bankruptcy law including the basic rules of the Chapter 7, Chapter 11, and Chapter 13 forms of bankruptcy. This course will also cover other topics such as the bankruptcy petition, the role of the bankruptcy trustee, and discharge from bankruptcy.

**Prerequisite:** Sophomore standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PLST 42706 BANKRUPTCY LAW II: CREDITOR-DEBTOR RELATIONS 3 Credit Hours**

Addresses issues not addressed in PLST 42705 including Chapter 9, Chapter 12, and Chapter 15 bankruptcy as well as the problems associated with gaining and collecting on a judgment. International bankruptcy issues will also be addressed.

**Prerequisite:** PLST 42705.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PLST 42708 REAL ESTATE LAW 3 Credit Hours**

Provides a general outlay of real estate law in the United States. Students will learn the substantive and procedural aspects of gaining and protecting property rights. Real estate contracts, financing, zoning, and landlord-tenant issues will also be covered.

**Prerequisite:** Sophomore standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PLST 48002 CONTRACT LAW 3 Credit Hours**

Intended to provide the student with an in-depth analysis of basic contract law as such related to contract information, performance and remedies. Also intended to familiarize the student with the sources of law that define contracts with an emphasis on reading and understanding case law. The student also develops a vocabulary of legal terms so that the student may assist the legal practitioner in the representation of clients in business transactions and in disputes.

**Prerequisite:** Sophomore standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PLST 48300 LAW OF CORPORATIONS AND OTHER ASSOCIATIONS 3 Credit Hours**

Covers the formation, operation and dissolution of various kinds of business organizations. Subjects covered include sole proprietorships, corporations, partnerships, the law of agency and employment agreements.

**Prerequisite:** Sophomore standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PLST 48401 PATENT LAW 3 Credit Hours**

Provides the student with an in-depth analysis of the law pertaining to patents, stressing the ability of the owner to protect their rights through filing, registration and use. International issues concerning registration, use, and trade agreements are also covered.

**Prerequisite:** Sophomore standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PLST 48403 PATENT PROSECUTION 3 Credit Hours**

Students learn to craft patent claims in various types of patent applications that would be submitted to the U.S. Patent and Trademark Office. Students also learn the mechanics of various types of patent applications including traditional applications, provisional applications, divisional applications and continuing applications. Students also gain an understanding of the various post-grant proceedings.

**Prerequisite:** PLST 48401; and sophomore standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PLST 48404 COPYRIGHT LAW I 3 Credit Hours**

(Slashed with PLST 58404) Intended to provide the student with an in-depth analysis of the foundations of the law pertaining to copyrights. Stresses the ability of the owner to protect such rights through use and registration. Also discusses the links to patent law, trademark law and the law of trade secrets.

**Prerequisite:** Sophomore standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PLST 48407 TRADEMARK LAW 3 Credit Hours**

(Slashed with PLST 58407) Intended to provide the student with an in-depth analysis of the law pertaining to trademarks and trade secrets. Stresses the ability of the owner to protect such rights through use and registration. Also discusses the links to patent law and copyright law.

**Prerequisite:** Sophomore standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PLST 48408 TRADEMARK PROSECUTION 3 Credit Hours**

Covers the substantive and procedural aspects of trademark prosecution at the state, federal, and international levels. Special attention will be paid to the topics of drafting the trademark application and conducting searches of existing trademarks in the United States and abroad.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter



**PLST 58404 COPYRIGHT LAW I 3 Credit Hours**

(Slashed with PLST 48404) Intended to provide the student with an in-depth analysis of the foundations of the law pertaining to copyrights. Stress the ability of the owner to protect such rights through use and registration. Also discusses the links to patent law, trademark law and the law of trade secrets.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PLST 58407 TRADEMARK LAW 3 Credit Hours**

(Slashed with PLST 48407) Intended to provide the student with an in-depth analysis of the law pertaining to trademarks and trade secrets. The course will stress the ability of the owner to protect such rights through use and registration. The course will also discuss the links to patent law and copyright law.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Religion (REL)****REL 11020 INTRODUCTION TO WORLD RELIGIONS (DIVG) (ELR) (KHUM) 3 Credit Hours**

A study of the religious impulse as it manifests itself in the plurality of beliefs, practices and institutions of the world religions.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Diversity Global, Experiential Learning Requirement, Kent Core Humanities, Transfer Module Humanities

**REL 12020 INTRODUCTION TO NEW TESTAMENT LITERATURE 3 Credit Hours**

Course introduces students to the literature of the New Testament and to the early Christian communities in which the works were formulated. Of focused interest is the critical study of the content of the texts, with close consideration of the historical and literary influences on the composition and reception of the gospel traditions as regards their presentations of the life, ministry and person of Jesus, and the letters of Paul. The post-Pauline pastoral epistles, and various later works included in the collection are briefly examined.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**REL 21021 MOSES, JESUS AND MOHAMMAD (DIVG) (ELR) (KHUM) 3 Credit Hours**

An in-depth exploration of Judaism, Christianity and Islam, considering the circumstances of each tradition's beginnings, the influence of the identified founder, and the cultural diversities evident in the history of each of the distinctive religious traditions, as well as the inter-connectedness and influence of each of three religions upon the others. Course concludes with a consideration of the contemporary situations faced by the traditions, including their engagements with modernity and one another as global historic traditions in a changing world.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Diversity Global, Experiential Learning Requirement, Kent Core Humanities, Transfer Module Humanities

**REL 31065 COMPARATIVE RELIGIOUS EXPERIENCE 3 Credit Hours**

Examination of the phenomena of religious experience, its structure, ramifications and expression in myth and ritual.

**Prerequisite:** REL 11020 or REL 21021.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**REL 31075 RELIGION AND WOMEN 3 Credit Hours**

Course serves to provide students with an opportunity to examine the status of women as concerns authoritative texts, politics, doctrines and institutions through the critical study of the history, texts and artifacts of selected traditional religions with the use of multidisciplinary and cross-cultural approaches concerning the experience, contributions, topics and status of women – both historically and in contemporary contexts.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**REL 31091 SEMINAR: RELIGION IN THE MODERN WORLD 3 Credit Hours**

(Repeatable for maximum 6 credit hours) An inquiry into the influences of modernity in the conception, valuation and-or interpretation of religious convictions, beliefs, symbolizations, institutions and artifacts (including texts). Students with junior standing should contact the director of the Religion Studies program for a prerequisite override, if necessary.

**Prerequisite:** REL 11020 or REL 21021.

**Schedule Type:** Seminar

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**REL 40095 SPECIAL TOPICS IN RELIGION STUDIES 3 Credit Hours**

(Repeatable for credit when topics vary) Special topics seminar in religion studies.

**Prerequisite:** Junior standing.

**Schedule Type:** Seminar

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**REL 40096 INDIVIDUAL INVESTIGATION 1-3 Credit Hours**

(Repeatable for credit) Individual investigation in religion studies.

**Prerequisite:** Special approval.

**Schedule Type:** Individual Investigation

**Contact Hours:** 3-9 other

**Grade Mode:** Standard Letter

**REL 41010 RELIGION VIOLENCE AND TERROR 3 Credit Hours**

Course explores a variety of religions focusing on the themes of violence and terror. The examination employs different academic approaches to selected historic examples and their underlying causes.

**Prerequisite:** REL 11020 or REL 21021.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**REL 41091 SEMINAR IN ADVANCED COMPARATIVE RELIGION 3 Credit Hours**

(Repeatable for a maximum of 6 credit hours)(Slashed with REL 51091) Variable content course that is an advanced examination of pivotal issues, schools and theorists in the study of religion and the future of comparative studies.

**Prerequisite:** REL 11020 or REL 21021 with a minimum C grade; and REL 31065 or REL 31091; and junior or senior standing.

**Schedule Type:** Seminar

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**REL 51091 SEMINAR IN ADVANCED COMPARATIVE RELIGION 3 Credit Hours**

(Repeatable for a maximum of 6 credit hours)(Slashed with REL 41091) Variable content course that is an advanced examination of pivotal issues, schools and theorists in the study of religion and the future of comparative studies.

**Prerequisite:** Graduate standing.

**Schedule Type:** Seminar

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

## Center for the Study of Gender and Sexuality

### LGBTQ Studies (LGBT)

**LGBT 20020 INTRODUCTION TO LESBIAN, GAY, BISEXUAL, TRANSGENDER AND QUEER STUDIES 3 Credit Hours**

Introduction to the field of LGBTQ Studies as well as an introduction to critical issues in LGBTQ lives.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**LGBT 20095 SPECIAL TOPICS IN LGBTQ STUDIES 1-3 Credit Hours**

(Repeatable for credit) Introduction to a current and specialized topic in LGBTQ studies.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 1-3 lecture

**Grade Mode:** Standard Letter

**LGBT 30095 SPECIAL TOPICS IN LGBTQ STUDIES 1-3 Credit Hours**

(Repeatable for credit) Study of special topics related to LGBTQ Studies.

**Prerequisite:** LGBT 20020.

**Schedule Type:** Lecture

**Contact Hours:** 1-3 lecture

**Grade Mode:** Standard Letter

**LGBT 30196 INDIVIDUAL INVESTIGATION IN LGBTQ STUDIES 1-3 Credit Hours**

(Repeatable for credit) Individual investigation in areas of interest not covered in courses.

**Prerequisite:** Junior standing; and special approval.

**Schedule Type:** Individual Investigation

**Contact Hours:** 3-9 other

**Grade Mode:** Standard Letter

**LGBT 40095 SPECIAL TOPICS IN LGBTQ STUDIES 1-3 Credit Hours**

(Repeatable for credit) This course will provide new and emerging topics for students to study.

**Prerequisite:** LGBT 20020 or LGBT 41198.

**Schedule Type:** Lecture

**Contact Hours:** 1-3 lecture

**Grade Mode:** Standard Letter

**LGBT 40192 PRACTICUM IN LGBTQ STUDIES (ELR) 3-6 Credit Hours**

(Repeatable for credit) Guided study of various aspects of the LGBTQ experience through involvement in the community, government agencies, non-profits, educational institutions, and other areas.

**Prerequisite:** Special approval.

**Schedule Type:** Practical Experience

**Contact Hours:** 8-18 other

**Grade Mode:** Standard Letter

**Attributes:** Experiential Learning Requirement

**LGBT 40201 INTRODUCTION TO TRANSGENDER STUDIES 3 Credit Hours**

Serves as an introduction to transgender studies, which addresses theories, practices, laws and other cultural expressions of sexed embodiments, gender identity and gender expression.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**LGBT 40202 QUEER THEORY 3 Credit Hours**

Explores theories related to sexual orientation, gender expression and gender identity.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**LGBT 41198 LGBTQ RESEARCH METHODS (ELR) 3 Credit Hours**

Explores different qualitative and quantitative methodologies through applied research on LGBTQ-related topics.

**Prerequisite:** None.

**Schedule Type:** Lecture, Research

**Contact Hours:** 1 lecture, 2 other

**Grade Mode:** Standard Letter

**Attributes:** Experiential Learning Requirement

## Women's Studies (WMST)

### WMST 20095 SPECIAL TOPICS IN WOMEN'S STUDIES 1-5 Credit Hours

(Repeatable for credit) Study of particular contemporary figures, events and social practices or phenomenon as they relate to women's studies. This includes women and war, women and work and women and interpersonal violence.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 1-5 lecture

**Grade Mode:** Standard Letter

### WMST 20193 VARIABLE TITLE WORKSHOP IN WOMEN'S STUDIES 1-6 Credit Hours

(Repeatable for credit) Workshop focused on a specific topic within women's studies.

**Prerequisite:** None.

**Schedule Type:** Workshop

**Contact Hours:** 1-6 other

**Grade Mode:** Satisfactory/Unsatisfactory

### WMST 30000 COLLOQUIUM IN WOMEN'S STUDIES (DIVD) 3 Credit Hours

A critical investigation of the position and category of women from a cross-cultural, historical and interdisciplinary perspective, with special emphasis on major themes and issues in women's studies. Issues including race, ethnicity and sexuality are addressed.

**Prerequisite:** Junior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Diversity Domestic

### WMST 30001 FEMINIST THEORY 3 Credit Hours

An examination of important historical and contemporary works of feminist theory and their influence on the development of feminist thought and practice in the United States and worldwide. Issues including race, ethnicity and sexuality are addressed.

**Prerequisite:** COMM 35912 or CRIM 37411 or ENG 21002 or ENG 33013 or ENG 33014 or GER 41332 or HIST 31075 or PAS 33110 or PAS 37100 or PAS 37200 or PHIL 31040 or POL 40470 or SOC 42315 or WMST 20095 or WMST 30000 or WMST 30095 or WMST 30100; and junior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

### WMST 30095 SPECIAL TOPICS IN WOMEN'S STUDIES II 1-5 Credit Hours

(Repeatable for credit) Study of selected topics in women's studies organized around historical and theoretical issues and movements. This includes contemporary feminist theory, suffragist movement and third wave feminism.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 1-5 lecture

**Grade Mode:** Standard Letter

### WMST 30100 HISTORY OF WOMEN IN THE UNITED STATES 3 Credit Hours

(Cross-listed with HIST 31075) An exploration of the political, economic, social, intellectual and cultural forces that have shaped women's lives, women's thought, perceptions of womanhood and feminism, from 1607 to the present in what is now the United States.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

### WMST 30196 WOMEN STUDIES INDIVIDUAL INVESTIGATION 1-3 Credit Hours

(Repeatable for credit) The design and completion of a scholarly research project related to women's studies, and the presentation of findings at the end of the term. Arrangements must be made in the semester prior to registration.

**Prerequisite:** Special approval by instructor.

**Schedule Type:** Individual Investigation

**Contact Hours:** 3-9 other

**Grade Mode:** Standard Letter

### WMST 40095 SPECIAL TOPICS IN WOMEN'S STUDIES III 1-5 Credit Hours

(Repeatable for credit) Informed study of critical issues in women's studies from an international or global perspective. Specific topic varies per course offering.

**Prerequisite:** WMST 30000 or WMST 30001.

**Schedule Type:** Lecture

**Contact Hours:** 1-5 lecture

**Grade Mode:** Standard Letter

### WMST 40193 VARIABLE TITLE WORKSHOP IN WOMEN'S STUDIES 1-6 Credit Hours

(Repeatable for credit) Workshop focused on a specific topic within women's studies.

**Prerequisite:** None.

**Schedule Type:** Workshop

**Contact Hours:** 1-6 other

**Grade Mode:** Satisfactory/Unsatisfactory

### WMST 40992 PRACTICUM IN WOMEN'S STUDIES (ELR) 3 Credit Hours

(Repeatable for credit) An assignment at a private, public or nonprofit organization that centers on women's issues such as education health and policy making. Arrangements must be made in the semester prior to registration.

**Prerequisite:** Special approval.

**Schedule Type:** Practical Experience

**Contact Hours:** 9 other

**Grade Mode:** Standard Letter

**Attributes:** Experiential Learning Requirement

## Department of Anthropology Anthropology (ANTH)

### ANTH 18095 SPECIAL TOPICS ANTHROPOLOGY 3 Credit Hours

(Repeatable for credit) Special Topics in Anthropology offered irregularly when unusual resources or opportunities exist. Topic announced when scheduled.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ANTH 18210 GLOBAL CULTURAL DIVERSITY: ANTHROPOLOGICAL PERSPECTIVES (DIVG) (KSS) 3 Credit Hours**

This introductory course in cultural anthropology examines the culture concept, the diverse ways of life found in communities around the world, and attempts by anthropologists and other social scientists to understand the commonalities underlying our diversity. It explores how individual lives are shaped by broader cultural and social forces, how people create meaning, and the nature of power relations. Students will gain insight into the potential of anthropological findings to help resolve contemporary human problems.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Diversity Global, Kent Core Social Sciences, TAG Social and Behavioral Sciences, Transfer Module Social Sciences

**ANTH 18230 INTRODUCTION TO FORENSIC ANTHROPOLOGY 3 Credit Hours**

Forensic anthropology is the application of biological anthropology in a medico-legal context. The tools of archaeology and biological anthropology are used to discover, recover and identify human remains. Topics include human osteology, determining the biological profile (sex, age, ancestry and stature), facial reconstruction, establishing a positive I.D., trauma to bone, stages of decomposition, the role of insects in decomposition, and issues of mass graves.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ANTH 18420 ARCHAEOLOGY: ANCIENT LIVES AND CULTURES (DIVG) (KSS) 3 Credit Hours**

Archaeology is the study of the human past using material remains. The themes of time change and human diversity will be emphasized as students learn about ancient societies and how they teach us about ourselves.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Diversity Global, Kent Core Social Sciences, TAG Social and Behavioral Sciences, Transfer Module Social Sciences

**ANTH 18630 HUMAN EVOLUTION (KBS) 3 Credit Hours**

Introduction to basic evolutionary theory with a focus on the emergence and progressive development of the human species during the last five million years. Includes related topics such as primate behavior and human variation.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Kent Core Basic Sciences, TAG Social and Behavioral Sciences, Transfer Module Natural Sciences

**ANTH 18631 ISSUES IN HUMAN EVOLUTION (KBS) (KLAB) 1 Credit Hour**

Laboratory study of primate and human anatomy; human paleontology; Mendelian, molecular and human genetics; and primate behavior, ecology and conservation.

**Pre/corequisite:** ANTH 18630.

**Schedule Type:** Laboratory

**Contact Hours:** 1 lab

**Grade Mode:** Standard Letter

**Attributes:** Kent Core Basic Sciences, Kent Core Basic Sciences Lab, Transfer Module Natural Sciences

**ANTH 28095 SPECIAL TOPICS ANTHROPOLOGY 3 Credit Hours**

(Repeatable for credit) Special Topics in Anthropology offered irregularly when unusual resources or opportunities exist. Topic announced when scheduled.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ANTH 28300 INTRODUCTION TO FORENSIC GENETICS 3 Credit Hours**

Forensic genetics is a field in which the properties of proteins and nucleic acids (genes) are utilized to identify the person that produced them; for example, whose DNA is on a gun trigger? This is the first in a two-course series. This course provides a foundation in basic genetic principles and methods relevant to criminal investigation and victim identification. Topics include introduction and history of molecular forensics, crime scene evidence, serology (blood, semen, saliva), blood spatter, chromosome structure, principles of inheritance, linkage and crossing over, microsatellites (STRs), DNA extraction methods, standard PCR, capillary electrophoresis, mitochondrial DNA, sex chromosomes, basic population genetics, and CODIS database.

**Prerequisite:** ANTH 18230 or ANTH 18630.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ANTH 38095 SPECIAL TOPICS IN ANTHROPOLOGY 3 Credit Hours**

Special topics in anthropology offered irregularly when unusual resources or opportunities exist. Topic announced when scheduled.

**Prerequisite:** Junior standing or above.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ANTH 38096 INDIVIDUAL INVESTIGATION IN ANTHROPOLOGY (ELR) 1-3 Credit Hours**

(Repeatable for credit) Readings and/or research supervised by a member of the anthropology staff.

**Prerequisite:** Permission.

**Schedule Type:** Individual Investigation

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter-IP

**Attributes:** Experiential Learning Requirement

**ANTH 38292 FIELD WORK IN CULTURAL ANTHROPOLOGY (ELR) 3 Credit Hours**

(Repeatable for credit) Practical experience carrying out field research in cultural anthropology under the supervision of members of the anthropology faculty.

**Prerequisite:** ANTH 18210 or SOC 12050.

**Schedule Type:** Field Experience

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Experiential Learning Requirement

**ANTH 38480 ARCHAEOLOGICAL ANALYSIS (ELR) (WIC) 3 Credit Hours**

Methods necessary for the description and laboratory analysis of prehistoric remains. Course will include laboratory exercises as well as class lectures.

**Prerequisite:** ANTH 18420.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Experiential Learning Requirement, Writing Intensive Course

**ANTH 38490 QUANTITATIVE ANTHROPOLOGY 3 Credit Hours**

Introduces the quantitative description of numerical data, provides an understanding of the basis of probability theory and statistical inference and acquaints the student with the role of computers in anthropology.

**Prerequisite:** ANTH 18420 or ANTH 18630.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ANTH 38680 PRIMATE SOCIETIES 3 Credit Hours**

This course will be a survey of the behavior of living primates. Topics covered include reproductive and foraging strategies, social structure and primate conservation. Antecedent human behavior will also be considered.

**Prerequisite:** ANTH 18630.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ANTH 48001 QUALITATIVE RESEARCH METHODS IN ANTHROPOLOGY 3 Credit Hours**

(Slashed with ANTH 58001) This course covers the qualitative research methods employed by anthropologists to collect and analyze data. Students will gain skills in ethnography, research design and analysis, and the ethical responsibilities associated with data collection and storage.

**Prerequisite:** ANTH 18210.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ANTH 48010 NORTH AMERICA'S ICE AGE HUNTERS 3 Credit Hours**

(Slashed with ANTH 58010) This class is an in-depth study of the Clovis people, their culture, their technology, their ancestors, and their progeny. The Clovis culture represents the first peoples of North America during the Pleistocene (Ice Age), over 13,000 years ago. These first Americans were colonizers to the New World, and tackled a dangerous and unfamiliar landscape.

**Prerequisite:** ANTH 18420.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ANTH 48023 FORENSIC ARCHAEOLOGY FIELD SCHOOL (ELR) 3 Credit Hours**

(Slashed with ANTH 58023) This course provides students with practical experience in archaeological fieldwork in the context of a mock crime scene. Students will excavate a complex burial feature. Surface survey, excavation and recording techniques, field drawing, and processing of bones and artifacts will be taught.

**Prerequisite:** ANTH 18230 or ANTH 18630.

**Schedule Type:** Field Experience, Laboratory, Lecture

**Contact Hours:** 1 lecture, 3 lab, 3 other

**Grade Mode:** Standard Letter

**Attributes:** Experiential Learning Requirement

**ANTH 48093 VARIABLE TITLE WORKSHOP IN ANTHROPOLOGY 1-6 Credit Hours**

(Repeatable for credit) (Cross-listed with ANTH 58093) Classroom discussions and field study activity focused on professional and disciplinary concerns. Specific content varies with workshop group.

**Prerequisite:** Special approval.

**Schedule Type:** Workshop

**Contact Hours:** 1-6 other

**Grade Mode:** Satisfactory/Unsatisfactory

**ANTH 48095 SPECIAL TOPICS IN ANTHROPOLOGY 3 Credit Hours**

(Repeatable for credit) (Cross-listed with ANTH 58095) Offered irregularly when unusual resources and/or opportunities permit. Topic announced when scheduled.

**Prerequisite:** ANTH 18210 or 18420.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ANTH 48150 RELIGION: A SEARCH FOR A MEANING 3 Credit Hours**

(Slashed with ANTH 58150) This course teaches students the anthropological approaches to the study of religious beliefs and practices, as well as the role of religion in bringing about social change.

Topics covered include: ritual, myth, witchcraft, sorcery, shamanism, syncretism, secularism and fundamentalism. Students will appreciate the diversity of ways in which religion is manifested cross-culturally and understand the different roles that religious beliefs play in human life.

Students with Junior standing or above may request that the prerequisite be waived.

**Prerequisite:** ANTH 18210.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ANTH 48212 KINSHIP AND SOCIAL ORGANIZATION (DIVG) 3 Credit Hours**

(Cross-listed with ANTH 58212) This course employs cross-cultural approaches to the understanding of marriage, family organization, descent and kinship systems.

**Prerequisite:** ANTH 18210.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Diversity Global



**ANTH 48214 POLITICS OF CULTURE (ELR) (WIC) 3 Credit Hours**  
(Slashed with ANTH 58214) Addresses the way in which culture has been politicized, and looks at such issues as cultural relativism and objectivity in anthropological studies with reference to specific peoples and geographic areas.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Experiential Learning Requirement, Writing Intensive Course

**ANTH 48220 CULTURAL ECOLOGY AND SUSTAINABILITY 3 Credit Hours**

(Slashed with ANTH 58220) Exploration of the dynamic relationship between socio-cultural systems and physical-biological environment through Anthropology's comparative perspective on the crucial contemporary need to foster a sustainable society.

**Prerequisite:** ANTH 18210.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ANTH 48225 ARCHAEOLOGY OF DEATH (ELR) (WIC) 3 Credit Hours**

Cross-listed with ANTH 58225) Archaeologists study cemeteries to learn how societies treat their dead, as well as work at mass disaster scenes, and clandestine graves. They aid law enforcement in many situations where human remains have been skeletonized. This course will provide students with an understanding of the processes and procedures involved in each.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Experiential Learning Requirement, Writing Intensive Course

**ANTH 48230 SOCIO-CULTURAL CHANGE 3 Credit Hours**

(Cross-listed with ANTH 58230) Analysis of institutional change where peoples of different cultures are in sustained contact.

**Prerequisite:** ANTH 18210.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ANTH 48242 ARCHAEOLOGICAL CERAMICS 3 Credit Hours**

(Slashed with ANTH 58242) This course will provide students with essential archaeological knowledge of ceramic materials via lecture and hands-on learning activities. Pottery will be addressed in a holistic manner, starting with its geochemical origins, through the various ways humans have sourced and manipulated this versatile raw material, as well as standard archaeological methods for study and interpretation. Ceramic materials from cultures all around the world will be discussed in depth to reveal both functional and social significance.

**Prerequisite:** ANTH 18420.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ANTH 48245 PSYCHOLOGICAL ANTHROPOLOGY (DIVG) 3 Credit Hours**

(Slashed with ANTH 58245) Overview of psychological anthropology. Includes comparative cross-cultural socialization and personality development; group and national character; relationship of personality to politics, social and occupational roles, and recent explorations of the relationship between culture and cognition. Examines contributions by leading figures, from Freud, Boas, Benedict, and Whorf through modern studies of spatial cognition and navigation.

**Prerequisite:** ANTH 18210 or PSYC 11762.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Diversity Global

**ANTH 48250 MEDICAL ANTHROPOLOGY (DIVG) 3 Credit Hours**

(Cross-listed with ANTH 58250) This course teaches students the central concepts and methods of medical anthropology, treating illness and healing as biocultural, political and experiential phenomena. The course considers both the specificity of local medical cultures and the complex interactions among the environment, human behavior and political and economic policies that shape them. The course will sensitize students to cultural issues in sickness and health care, and provide some critical analytic concepts and tools. Students with JUNIOR standing or above may request that the prerequisite be waived.

**Prerequisite:** ANTH 18210 or ANTH 18630.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Diversity Global

**ANTH 48262 PEOPLES AND CULTURES OF AMAZONIA (DIVG) 3 Credit Hours**

(Slashed with ANTH 58262) This course introduces students to the cultural traditions of Lowland South American peoples. Through a variety of ethnographic readings and films students will explore key anthropological themes such as the relationship between 'nature' and 'culture', gender relations, violence, anthropological ethics and the impacts of colonialism and globalization. Topics covered include: cosmology, personhood, ritual practices, sorcery, shamanism, gender and indigenous activism. Students with Junior standing or above may request that the prerequisite be waived.

**Prerequisite:** ANTH 18210.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Diversity Global

**ANTH 48280 BEING HUMAN: SIGNS AND SYMBOLS 3 Credit Hours**

An exploration of semiotic anthropology, the study of the production and communication of meaning through signs and symbols in human life, from both a humanistic and a scientific perspective. Special emphasis is on what it means to be human from a spatial as well as an evolutionary perspective as it relates to our sustainability crisis. The topic is crucial to our species, and to life on earth more generally, given the current globalization of modernity and the propagation of its non-sustainable definition of human being.

**Prerequisite:** Sophomore standing or above.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ANTH 48295 SPECIAL TOPICS IN CULTURAL ANTHROPOLOGY 3 Credit Hours**

Special topics in anthropology offered irregularly when unusual resources or opportunities exist. Topic announced when scheduled.

**Prerequisite:** ANTH 18210.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ANTH 48300 ADVANCED FORENSIC GENETICS 3 Credit Hours**

(Slashed with ANTH 58300) Forensic genetics is a field in which the properties of proteins and nucleic acids (genes) are utilized to identify the person that produced them. This is the second in a two-course series, and it focuses on the analysis and interpretation of molecular forensic data, as used in criminal investigations. Topics include quantitative PCR, capillary electrophoresis and electrophoretic artifacts, NRC and ISFG recommendations, CODIS database, familial searches, low-copy DNA, mixture deduction, forensic statistics, missing persons, paternity tests, mass disaster identifications, quality control, accreditations and validations, courtroom testimony, legal challenges to DNA typing, and new approaches and technologies.

**Prerequisite:** ANTH 28300.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ANTH 48360 ANTHROPOLOGY OF GENDER AND SEXUALITY (DIVG) 3 Credit Hours**

(Slashed with ANTH 58360) This course examines how people experience gender – what it means to be a man or woman – and sexuality in a variety of historical and cultural contexts. It explores how gender and sexuality intersect with other categories such as race, social class, and other markers of self and societal status. Students will gain a greater sense of the diversity of human social practices and beliefs regarding gender and sexuality across cultures. Students with Junior standing or above may request that the prerequisite be waived.

**Prerequisite:** ANTH 18210.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Diversity Global

**ANTH 48425 ANCIENT MESOAMERICA 3 Credit Hours**

(Cross-listed with ANTH 58425) Comparative analysis of Mesoamerican societies from the arrival of the first Americans over 10,000 years ago to European colonization in the 16th century A.D., including major pre-Columbian civilizations.

**Prerequisite:** ANTH 18420.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ANTH 48440 ARCHAEOLOGY OF ANCIENT OHIO 3 Credit Hours**

(Cross-listed with ANTH 58440) Cultural evolution and human-environmental relationships in the ancient Ohio region documenting an 11,000 year period from initial occupation to the beginning of European written history.

**Prerequisite:** ANTH 18420.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ANTH 48450 ANCIENT CIVILIZATIONS 3 Credit Hours**

(Slashed with ANTH 58450) This course will explore the mechanisms involved in the development of early complex societies around the globe. Students will be introduced to cross-cultural comparative analysis to explore theories regarding the rise of the state in various ecological environments, as well as other causal explanations and organizational parameters associated with ancient state formation and maintenance.

**Prerequisite:** ANTH 18420.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ANTH 48492 ARCHAEOLOGICAL FIELD METHODS (ELR) 3 Credit Hours**

(Repeatable for a maximum of 18 credit hours) (Cross-listed with ANTH 58492) Field and laboratory techniques in archaeological research.

**Prerequisite:** Special approval.

**Schedule Type:** Field Experience, Lecture

**Contact Hours:** 1.66 lecture, 4 other

**Grade Mode:** Standard Letter

**Attributes:** Experiential Learning Requirement

**ANTH 48495 SPECIAL TOPICS IN ARCHAEOLOGY 3 Credit Hours**

Special topics in anthropology offered irregularly when unusual resources or opportunities exist. Topic announced when scheduled.

**Prerequisite:** ANTH 18420.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ANTH 48550 FORENSIC SCIENCE IN THE COURTROOM 3 Credit Hours**

(Slashed with ANTH 58550) This course will provide Students with an understanding of the types of biological forensic data utilized in court, and the strengths and weaknesses of these data. Though multiple types of analyses will be discussed, emphasis will be placed on DNA (STR) data, as it is the predominant type of biological evidence used today. The course will also cover the steps required to determine whether a new type of analysis is admissible at trial. Basic courtroom procedures, biases in data interpretation and presentation, case studies, and moot courts will be included.

**Prerequisite:** Junior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ANTH 48623 HUMAN VARIATION 3 Credit Hours**

(Cross-listed with ANTH 58623) A detailed anthropological examination of the causes and extent of modern human variability.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ANTH 48630 PACIFIC ISLAND CULTURES (DIVG) 3 Credit Hours**

Peoples and characteristics of culture areas of Pacific Islands, including Polynesia, Melanesia and Micronesia with analysis of several representative cultures from these areas.

**Prerequisite:** ANTH 18210.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Diversity Global

**ANTH 48692 FIELD WORK IN BIOLOGICAL ANTHROPOLOGY (ELR) 3 Credit Hours**

(Repeatable for credit) (Cross-listed with ANTH 58692) Can be applied to any bioanth field of study and off-campus activity, ranging from museum work to U.S. and international research projects.

**Prerequisite:** Special approval.

**Schedule Type:** Field Experience

**Contact Hours:** 3 other

**Grade Mode:** Satisfactory/Unsatisfactory

**Attributes:** Experiential Learning Requirement

**ANTH 48695 SPECIAL TOPICS IN BIOLOGICAL ANTHROPOLOGY 3 Credit Hours**

Special topics in anthropology offered irregularly when unusual resources or opportunities exist. Topic announced when scheduled.

**Prerequisite:** ANTH 18630.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ANTH 48810 HUMAN PALEONTOLOGY 3 Credit Hours**

(Cross-listed with ANTH 58810) Study of primate fossils of the Miocene and Pliocene to include the origins of humans and their earliest ancestors.

**Prerequisite:** ANTH 18630.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ANTH 48820 HUMAN MUSCULO-SKELETAL SYSTEM 3 Credit Hours**

(Cross-listed with ANTH 58820) A largely hands-on course introducing the study of human anatomy for students interested in biological anthropology and archaeology. Topics include skeletal and functional anatomy biomechanics and estimation of age and sex from isolated bones.

**Prerequisite:** Junior standing or above.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ANTH 48830 HUMAN BEHAVIORAL ECOLOGY AND EVOLUTION (DIVG) (ELR) (WIC) 3 Credit Hours**

(Cross-listed with ANTH 58830) How 'unique' is human behavior? Using an evolutionary perspective, we will explore the evolution of human mating systems and parental investment.

**Prerequisite:** ANTH 18630 or BSCI 30156.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Diversity Global, Experiential Learning Requirement, Writing Intensive Course

**ANTH 48835 PRIMATE ECOLOGY AND CONSERVATION 3 Credit Hours**

(Slashed with ANTH 58835) Study of the geographic distribution and evolutionary ecology of prosimians, monkeys and apes and human and climatic effects on their long-term survival.

**Prerequisite:** ANTH 18630 or ANTH 38680 or BSCI 10120.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ANTH 48850 NATURAL SELECTION ACCORDING TO DARWIN 3 Credit Hours**

(Slashed with ANTH 58850) Darwin's Origin of Species transformed our understanding of the natural world. Although he was not aware of the biological constituents of inheritance (i.e. genetics and the modern synthesis), his three ingredients for a system of descent with modification – variation, inheritance, and sorting – were wildly influential. This course will not only explore how Darwin understood his monumental theory, but also show that Darwin's original proposal explains both biological and cultural evolution. Students will gain an understanding of how Darwin's theory provided a foundation for modern anthropological thought and continues to inform anthropological queries.

**Prerequisite:** Junior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ANTH 48889 INTERNATIONAL EXPERIENCE (ELR) 1-4 Credit Hours**

(Slashed with ANTH 58889) Faculty-led study abroad experiences.

**Prerequisite:** None.

**Schedule Type:** International Experience

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**Attributes:** Experiential Learning Requirement

**ANTH 58001 QUALITATIVE RESEARCH METHODS IN ANTHROPOLOGY 3 Credit Hours**

(Slashed with ANTH 48001) This course covers the qualitative research methods employed by anthropologists to collect and analyze data. Students will gain skills in ethnography, research design and analysis, and the ethical responsibilities associated with data collection and storage.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ANTH 58010 NORTH AMERICA'S ICE AGE HUNTERS 3 Credit Hours**

(Slashed with ANTH 48010) This class is an in-depth study of the Clovis people, their culture, their technology, their ancestors, and their progeny. The Clovis culture represents the first peoples of North America during the Pleistocene (Ice Age), over 13,000 years ago. These first Americans were colonizers to the New World, and tackled a dangerous and unfamiliar landscape.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ANTH 58023 FORENSIC ARCHAEOLOGY FIELD SCHOOL 3 Credit Hours**

(Slashed with ANTH 48023) This course provides students with practical experience in archaeological fieldwork in the context of a mock crime scene. Students will excavate a complex burial feature. Surface survey, excavation and recording techniques, field drawing, and processing of bones and artifacts will be taught.

**Prerequisite:** Graduate Standing.

**Schedule Type:** Field Experience, Laboratory, Lecture

**Contact Hours:** 1 lecture, 3 lab, 3 other

**Grade Mode:** Standard Letter

**ANTH 58093 VARIABLE TITLE WORKSHOP IN ANTHROPOLOGY 1-6 Credit Hours**

(Repeatable for credit) (Cross-listed with ANTH 48093) Classroom discussions and field study activity focused on professional and disciplinary concerns. Specific content varies with workshop group.

**Prerequisite:** Graduate standing.

**Schedule Type:** Workshop

**Contact Hours:** 1-6 other

**Grade Mode:** Satisfactory/Unsatisfactory

**ANTH 58095 SPECIAL TOPICS IN ANTHROPOLOGY 3 Credit Hours**

(Repeatable for credit) (Cross-listed with ANTH 48095) Offered irregularly when unusual resources and/or opportunities permit.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ANTH 58150 RELIGION: A SEARCH FOR MEANING 3 Credit Hours**

(Slashed with ANTH 48150) This course teaches students anthropological approaches to the study of religious beliefs and practices, as well as the role of religion in bringing about social change. Topics covered include: ritual, myth, witchcraft, sorcery, shamanism, syncretism, secularism and fundamentalism. Students will appreciate the diversity of ways in which religion is manifested cross-culturally and understand the different roles that religious beliefs play in human life.

**Prerequisite:** Graduate Standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ANTH 58212 KINSHIP AND SOCIAL ORGANIZATION 3 Credit Hours**

(Cross-listed with ANTH 48212) This course employs cross-cultural approaches to the understanding of marriage, family organization, descent and kinship system.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ANTH 58214 POLITICS OF CULTURE 3 Credit Hours**

(Slashed with ANTH 48214) This course will address the way in which culture has been politicized. It will look at issues such as cultural relativism and objectivity in anthropological studies with reference to specific peoples and geographic areas.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ANTH 58220 CULTURAL ECOLOGY AND SUSTAINABILITY 3 Credit Hours**

Cross-listed with ANTH 48220) Exploration of the dynamic relationship between socio-cultural systems and the physical-biological environment through Anthropology's comparative perspective on the crucial contemporary need to foster a sustainable society.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ANTH 58225 ARCHAEOLOGY OF DEATH 3 Credit Hours**

(Cross-listed with ANTH 48225) Archaeologists study cemeteries to learn how societies treat their dead, as well as work at mass disaster scenes, and clandestine graves. They aid law enforcement in many situations where human remains have been skeletonized. This course will provide students with an understanding of the processes and procedures involved in each.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ANTH 58230 SOCIO-CULTURAL CHANGE 3 Credit Hours**

(Cross-listed with ANTH 48230) Analysis of institutional changes where peoples of different cultures are in sustained contact.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ANTH 58242 ARCHAEOLOGICAL CERAMICS 3 Credit Hours**

(Slashed with 48242) This course will provide students with essential archaeological knowledge of ceramic materials via lectures and hands-on learning activities. Pottery will be addressed in a holistic manner, starting with its geochemical origins, through the various ways humans have sourced and manipulated this versatile raw material, as well as standard archaeological methods for study and interpretation. Ceramic materials from cultures all around the world will be discussed in depth to reveal both functional and social significance.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ANTH 58245 PSYCHOLOGICAL ANTHROPOLOGY 3 Credit Hours**

(Slashed with 48245) Overview of psychological anthropology. Includes comparative cross-cultural socialization and personality development; group and national character; relationship of personality to politics, social and occupational roles, and recent explorations of the relationship between culture and cognition. Examines contributions by leading figures, from Freud, Boas, Benedict, and Whorf through modern studies of spatial cognition and navigation.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ANTH 58250 MEDICAL ANTHROPOLOGY 3 Credit Hours**

(Cross-listed with ANTH 48250) This course teaches students the central concepts and methods of medical anthropology, treating illness and healing as biocultural, political and experiential phenomena. The course considers both the specificity of local medical cultures and the complex interactions among the environment, human behavior and political and economic policies that shape them. The course will sensitize students to cultural issues in sickness and health care, and provide some critical analytic concepts and tools.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter



**ANTH 58262 PEOPLES AND CULTURES OF AMAZONIA 3 Credit Hours**

(Slashed with ANTH 48262) This course introduces students to the cultural traditions of Lowland South American peoples. Through a variety of ethnographic readings and films students will explore key anthropological themes such as the relationship between 'nature' and 'culture', gender relations, violence, anthropological ethics and the impacts of colonialism and globalization. Topics covered include: cosmology, personhood, ritual practices, sorcery, shamanism, gender and indigenous activism.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ANTH 58295 SPECIAL TOPICS IN CULTURAL ANTHROPOLOGY 3 Credit Hours**

Special topics in anthropology offered irregularly when unusual resources or opportunities exist. Topic announced when scheduled.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ANTH 58300 ADVANCED FORENSIC GENETICS 3 Credit Hours**

(Slashed with ANTH 48300) Forensic genetics is a field in which the properties of proteins and nucleic acids (genes) are utilized to identify the person that produced them. This is the second in a two-course series, and it focuses on the analysis and interpretation of molecular forensic data, as used in criminal investigations. Topics include quantitative PCR, capillary electrophoresis and electrophoretic artifacts, NRC and ISFG recommendations, CODIS database, familial searches, low-copy DNA, mixture deduction, forensic statistics, missing persons, paternity tests, mass disaster identifications, quality control, accreditations and validations, courtroom testimony, legal challenges to DNA typing, and new approaches and technologies.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ANTH 58360 ANTHROPOLOGY OF GENDER AND SEXUALITY 3 Credit Hours**

(Slashed with ANTH 48360) This course examines how people experience gender – what it means to be a man or woman – and sexuality in a variety of historical and cultural contexts. It explores how gender and sexuality intersect with other categories such as race, social class, and other markers of self and societal status. Students will gain a greater sense of the diversity of human social practices and beliefs regarding gender and sexuality across cultures.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ANTH 58425 ANCIENT MESOAMERICA 3 Credit Hours**

(Cross-listed with ANTH 48425) Comparative analysis of Mesoamerican societies from the arrival of the first Americans over 10,000 years ago to European colonization in the 16th century A.D., including major pre-Columbian civilizations.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ANTH 58440 ARCHAEOLOGY OF ANCIENT OHIO 3 Credit Hours**

(Cross-listed with ANTH 48440) Cultural evolution and human-environmental relationships in the ancient Ohio region documenting an 11,000 year period from initial occupation to the beginning of European written history.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ANTH 58450 ANCIENT CIVILIZATIONS 3 Credit Hours**

(Cross-listed with ANTH 48450) This course will explore the mechanisms involved in the development of early complex societies around the globe. Students will be introduced to cross-cultural comparative analysis to explore theories regarding the rise of the state in various ecological environments, as well as other causal explanations and organizational parameters associated with ancient state formation and maintenance.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ANTH 58492 ARCHAEOLOGICAL FIELD METHODS 3 Credit Hours**

(Repeatable 6 times for credit) (Cross-listed with ANTH 48492) Field and laboratory techniques in archaeological research.

**Prerequisite:** Graduate standing.

**Schedule Type:** Field Experience, Lecture

**Contact Hours:** 1.66 lecture, 4 other

**Grade Mode:** Standard Letter

**ANTH 58495 SPECIAL TOPICS IN ARCHAEOLOGY 3 Credit Hours**

Special topics in anthropology offered irregularly when unusual resources or opportunities exist. Topic announced when scheduled.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ANTH 58550 FORENSIC SCIENCE IN THE COURTROOM 3 Credit Hours**

(Slashed with ANTH 48550) This course will provide students with an understanding of the types of biological forensic data utilized in court, and the strengths and weaknesses of these data. Though multiple types of analyses will be discussed, emphasis will be placed on DNA (STR) data, as it is the predominant type of biological evidence used today. The course will also cover the steps required to determine whether a new type of analysis is admissible at trial. Basic courtroom procedures, biases in data interpretation and presentation, case studies, and moot courts will be included.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ANTH 58623 HUMAN VARIATION 3 Credit Hours**

(Cross-listed with ANTH 48623) A detailed anthropological examination of the causes and extent of modern human variability.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter



**ANTH 58692 FIELD WORK IN BIOLOGICAL ANTHROPOLOGY 3 Credit Hours**

(Repeatable for credit) (Cross-listed with ANTH 48692) Can be applied to any bioanth field of study and off-campus activity, ranging from museum work to U.S. and international research projects.

**Prerequisite:** Approval of project and faculty sponsor; and graduate standing.

**Schedule Type:** Field Experience

**Contact Hours:** 3 other

**Grade Mode:** Satisfactory/Unsatisfactory

**ANTH 58695 SPECIAL TOPICS IN BIOLOGICAL ANTHROPOLOGY 3 Credit Hours**

Special topics in anthropology offered irregularly when unusual resources or opportunities exist. Topic announced when scheduled.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ANTH 58810 HUMAN PALEONTOLOGY 3 Credit Hours**

(Cross-listed with ANTH 48810) Study of primate fossils of the Miocene and Pliocene to include the origins of humans and their earliest ancestors.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ANTH 58820 HUMAN MUSCULO-SKELETAL SYSTEM 3 Credit Hours**

(Cross-listed with ANTH 48820) A largely hands-on course introducing the study of human anatomy for students interested in biological anthropology and archaeology. Topics include skeletal and functional anatomy, biomechanics, and estimation of age and sex from isolated bones.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ANTH 58830 HUMAN BEHAVIORAL ECOLOGY AND EVOLUTION 3 Credit Hours**

(Cross-listed with ANTH 48830) How 'unique' is human behavior? Using an evolutionary perspective we will explore the evolution of human mating systems and parental investment.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ANTH 58835 PRIMATE ECOLOGY AND CONSERVATION 3 Credit Hours**

(Slashed with ANTH 48835) Study of the geographic distribution and evolutionary ecology of prosimians, monkeys and apes and human and climatic effects on their long-term survival.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ANTH 58850 NATURAL SELECTION ACCORDING TO DARWIN 3 Credit Hours**

(Slashed with ANTH 48850) Darwin's Origin of Species transformed our understanding of the natural world. Although he was not aware of the biological constituents of inheritance (i.e. genetics and the modern synthesis), his three ingredients for a system of descent with modification – variation, inheritance, and sorting – were wildly influential. This course will not only explore how Darwin understood his monumental theory, but also show that Darwin's original proposal explains both biological and cultural evolution. Students will gain an understanding of how Darwin's theory provided a foundation for modern anthropological thought and continues to inform anthropological queries.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ANTH 58889 INTERNATIONAL EXPERIENCE 1-4 Credit Hours**

(Slashed with ANTH 58889) Faculty-led study abroad experiences.

**Prerequisite:** Graduate standing.

**Schedule Type:** Field Experience, International Experience

**Contact Hours:** 3-12 other

**Grade Mode:** Standard Letter

**ANTH 68091 RESEARCH SEMINAR IN ANTHROPOLOGICAL THEORY 3 Credit Hours**

(Repeatable for credit) An opportunity for advanced students to follow up personal theoretical interests based upon a previously established foundation in theory.

**Prerequisite:** Graduate standing.

**Schedule Type:** Seminar

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**ANTH 68093 VARIABLE TITLE WORKSHOP IN ANTHROPOLOGY 1-6 Credit Hours**

(Repeatable for credit) Classroom presentations and field study focused on professional and disciplinary concerns. Specific content varies with workshop group.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Workshop

**Contact Hours:** 1-6 other

**Grade Mode:** Satisfactory/Unsatisfactory

**ANTH 68095 SPECIAL TOPICS IN ANTHROPOLOGY 3 Credit Hours**

(Repeatable for credit) Offered irregularly when unusual resources and/or opportunities permit.

**Prerequisite:** 6 graduate hours toward MA in Anthropology; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ANTH 68096 INDIVIDUAL INVESTIGATION 1-3 Credit Hours**

(Repeatable for credit) Readings and/or research supervised by member of graduate faculty. Petition form available in the anthropology department office.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Individual Investigation

**Contact Hours:** 1-3 other

**Grade Mode:** Standard Letter-IP

**ANTH 68098 RESEARCH 1-15 Credit Hours**

(Repeatable for credit) Research or individual investigation. Repeated registration permitted. Petition form available in the anthropology department office.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Research

**Contact Hours:** 1-15 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**ANTH 68199 THESIS I 2-6 Credit Hours**

Thesis student must register for total of 6 hours, 2 to 6 hours in a single semester, or distributed over several semesters if desired.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Masters Thesis

**Contact Hours:** 2-6 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**ANTH 68230 PROBLEMS IN CULTURAL ANTHROPOLOGY 3 Credit Hours**

Basic graduate course in cultural anthropology required of all M.A. candidates. Course deals with major topics within this subdiscipline of anthropology.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ANTH 68241 ETHNIC GROUP ANALYSIS: PACIFIC ISLANDS 3 Credit Hours**

Peoples and characteristics of culture areas of the Pacific Islands, including Polynesia, Melanesia and Micronesia with analysis of several representative cultures from these areas.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ANTH 68299 THESIS II 2 Credit Hours**

Thesis students must continue registration each semester until all degree requirements are met.

**Prerequisite:** ANTH 68199; and graduate standing.

**Schedule Type:** Masters Thesis

**Contact Hours:** 3 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**ANTH 68430 PROBLEMS IN WORLD PREHISTORY 3 Credit Hours**

Basic graduate course in prehistoric archaeology required of all M.A. candidates.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ANTH 68630 PRINCIPLES OF BIOLOGICAL ANTHROPOLOGY 3 Credit Hours**

(Cross-listed with BMS 78630) A graduate-level introduction to the field of biological anthropology. Topics include genetics, human variation, fossil and modern primates, early man.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ANTH 68637 BIOANTHROPOLOGICAL DATA ANALYSIS I 5 Credit Hours**

(Cross-listed with BMS 78637) Examination of methods of univariate and bivariate experimental design. This survey emphasizes tests of hypothesis and estimation techniques with both classical and nonparametric procedures.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 5 lecture

**Grade Mode:** Standard Letter

**ANTH 68638 BIOANTHROPOLOGICAL DATA ANALYSIS II 3 Credit Hours**

(Cross-listed with BMS 78638) This survey of multivariate analysis in anthropology includes one-sample data exploration, multiple sample problems and regression methods. It also includes computer application. Graduate standing.

**Prerequisite:** ANTH 68637 (same course as BMS 78638).

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

## Department of Biological Sciences

### Biological Sciences (BSCI)

**BSCI 10001 HUMAN BIOLOGY (KBS) 3 Credit Hours**

Study of the scientific method and life's properties, emphasizing human biology. Topics include energy, genetics, reproduction, development disease, nutrition and physical fitness in humans. This course may not be used to fulfill major or minor requirements in the following programs: BA Biology, BS Biology, BS Botany, BS Environmental and Conservation Biology, BS Medical Technology, BS Biotechnology, BS Zoology, and the Biological Sciences minor.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Kent Core Basic Sciences, Transfer Module Natural Sciences

**BSCI 10002 LIFE ON PLANET EARTH (KBS) 3 Credit Hours**

Explores the fascinating breadth of life on Earth including the unique ecology and survival strategies of animals, plants and microbes in their natural habitats. This course may not be used to fulfill major or minor requirements in the following programs: BA Biology, BS Biology, BS Botany, BS Environmental and Conservation Biology, BS Medical Technology, BS Biotechnology, BS Zoology, and the Biological Sciences minor.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Kent Core Basic Sciences, Transfer Module Natural Sciences

**BSCI 10003 LABORATORY EXPERIENCE IN BIOLOGY (KBS) (KLAB) 1 Credit Hour**

Introductory college-level laboratory in biology for non-majors. This course may not be used to fulfill major or minor requirements in the following programs: BA Biology, BS Biology, BS Botany, BS Environmental and Conservation Biology, BS Medical Technology, BS Biotechnology, BS Zoology, and the Biological Sciences minor.

**Pre/corequisite:** BSCI 10001 or 10002.

**Schedule Type:** Laboratory

**Contact Hours:** 2 lab

**Grade Mode:** Standard Letter

**Attributes:** Kent Core Basic Sciences, Kent Core Basic Sciences Lab

**BSCI 10005 ANATOMY FOR VETERINARY TECHNICIANS 5 Credit Hours**

Comparison and identification of anatomy and basic physiological functions of domestic animals: skeletal, muscles, integumentary, special sense organs, respiratory, digestive, urinary, reproductive, mammary glands, endocrine, nerves, circulatory, immune. Lecture 4 hours, laboratory 3 hours weekly. This course may not be used to fulfill major or minor requirements in the following programs: BA Biology, BS Biology, BS Botany, BS Environmental and Conservation Biology, BS Medical Technology, BS Biotechnology, BS Zoology, and the Biological Sciences minor.

**Prerequisite:** None.

**Schedule Type:** Laboratory, Lecture, Combined Lecture and Lab

**Contact Hours:** 5 other

**Grade Mode:** Standard Letter

**BSCI 10110 BIOLOGICAL DIVERSITY (KBS) (KLAB) 4 Credit Hours**

This introductory course examines the biodiversity of life from its origins to present-day prokaryotes and eukaryotes; their behavior, ecology, and reproduction. Students must earn a final grade of at least C- in order to meet prerequisites for selected upper-division BSCI courses.

**Prerequisite:** None.

**Schedule Type:** Laboratory, Lecture, Combined Lecture and Lab

**Contact Hours:** 3 lecture, 2 lab

**Grade Mode:** Standard Letter

**Attributes:** Kent Core Basic Sciences, Kent Core Basic Sciences Lab, TAG Science

**BSCI 10120 BIOLOGICAL FOUNDATIONS (KBS) (KLAB) 4 Credit Hours**

This introductory course examines the organization of life from subcellular biochemistry and molecular biology, to genetics, bioenergetics and system homeostasis. Three hours of lecture and three hours of lab weekly. Students must earn a final grade of at least C- in order to meet prerequisites for selected upper-division BSCI courses.

**Prerequisite:** None.

**Schedule Type:** Laboratory, Lecture, Combined Lecture and Lab

**Contact Hours:** 3 lecture, 3 lab

**Grade Mode:** Standard Letter

**Attributes:** Kent Core Basic Sciences, Kent Core Basic Sciences Lab, TAG Science

**BSCI 10195 SPECIAL TOPICS IN BIOLOGY 1-3 Credit Hours**

(Repeatable for credit) Selected subjects and/or themes in biology.

**Prerequisite:** Special approval.

**Schedule Type:** Lecture

**Contact Hours:** 1-3 lecture

**Grade Mode:** Standard Letter

**BSCI 11010 FOUNDATIONAL ANATOMY AND PHYSIOLOGY I (KBS) (KLAB) 3 Credit Hours**

Anatomy and physiology to include organization of the human body, cells, tissues, organs and systems, integumentary, skeletal, muscular and respiratory systems and overviews of the nervous and circulatory system. This course is taught on Kent State's regional campuses for associate degree programs. This course may not be used to fulfill major or minor requirements in the following programs: BA Biology, BS Biology, BS Botany, BS Environmental and Conservation Biology, BS Medical Technology, BS Biotechnology, BS Zoology, and the Biological Sciences minor.

**Prerequisite:** Special approval.

**Schedule Type:** Laboratory, Lecture, Combined Lecture and Lab

**Contact Hours:** 2 lecture, 3 lab

**Grade Mode:** Standard Letter

**Attributes:** Kent Core Basic Sciences, Kent Core Basic Sciences Lab

**BSCI 11020 FOUNDATIONAL ANATOMY AND PHYSIOLOGY II (KBS) (KLAB) 3 Credit Hours**

Anatomy and physiology of the circulatory, digestive, urinary, nervous, endocrine and reproductive systems. This course is taught on Kent State's regional campuses for associate degree programs. This course may not be used to fulfill major or minor requirements in the following programs: BA Biology, BS Biology, BS Botany, BS Environmental and Conservation Biology, BS Medical Technology, BS Biotechnology, BS Zoology, and the Biological Sciences minor.

**Prerequisite:** BSCI 11010; and special approval.

**Schedule Type:** Laboratory, Lecture, Combined Lecture and Lab

**Contact Hours:** 2 lecture, 3 lab

**Grade Mode:** Standard Letter

**Attributes:** Kent Core Basic Sciences, Kent Core Basic Sciences Lab

**BSCI 16001 HORTICULTURAL BOTANY 3 Credit Hours**

To provide students with an understanding of the basic anatomy and physiology and growth characteristics of plants. Offered only at the Geauga and Salem campuses. This course may not be used to fulfill major or minor requirements in the following programs: BA Biology, BS Biology, BS Botany, BS Environmental and Conservation Biology, BS Medical Technology, BS Biotechnology, BS Zoology, and the Biological Sciences minor.

**Prerequisite:** None.

**Schedule Type:** Laboratory, Lecture

**Contact Hours:** 2 lecture, 3 lab

**Grade Mode:** Standard Letter

**BSCI 20019 BIOLOGICAL STRUCTURE AND FUNCTION 4 Credit Hours**

Basic design of human systems emphasizing the physiochemical and cellular bases of organ-system structure, function and development. This course may not be used to fulfill major or minor requirements in the following programs: BA Biology, BS Biology, BS Botany, BS Environmental and Conservation Biology, BS Medical Technology, BS Biotechnology, BS Zoology, and the Biology minor.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 4 lecture

**Grade Mode:** Standard Letter

**BSCI 20021 BASIC MICROBIOLOGY 3 Credit Hours**

Principles of microorganisms having a direct relationship on the health and well-being of humans. This course may not be used to fulfill major or minor requirements in the following programs: BA Biology, BS Biology, BS Botany, BS Environmental and Conservation Biology, BS Medical Technology, BS Biotechnology, BS Zoology, and the Biological Sciences minor.

**Prerequisite:** BSCI 20019; or BSCI 21010; or BSCI 10005; or BSCI 11010; or ATTR 25057; or EXSC 25057; and CHEM 10050 or 10052 or 10055 or 10060.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**BSCI 20022 BASIC MICROBIOLOGY LABORATORY 1 Credit Hour**

Laboratory experience in microbiology. This course may not be used to fulfill major or minor requirements in the following programs: BA Biology, BS Biology, BS Botany, BS Environmental and Conservation Biology, BS Medical Technology, BS Biotechnology, BS Zoology, and the Biological Sciences minor.

**Corequisite:** BSCI 20021.

**Schedule Type:** Laboratory

**Contact Hours:** 3 lab

**Grade Mode:** Standard Letter

**BSCI 20195 SPECIAL TOPICS IN BIOLOGY 1-3 Credit Hours**

(Repeatable for credit) Selected subjects and/or themes in Biology.

**Prerequisite:** Special approval.

**Schedule Type:** Lecture

**Contact Hours:** 1-3 lecture

**Grade Mode:** Standard Letter

**BSCI 20196 INTRODUCTION TO INDIVIDUAL INVESTIGATION 1-2 Credit Hours**

(Repeatable for credit) Introduction to research in the biological sciences under the direction of a BSCI faculty mentor.

**Prerequisite:** Minimum C grade in 8 hours of BSCI courses; and departmental and faculty mentor approvals required.

**Schedule Type:** Individual Investigation

**Contact Hours:** 1-2 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**BSCI 21010 ANATOMY AND PHYSIOLOGY I (KBS) (KLAB) 4 Credit Hours**

Anatomy, physiological chemistry, cytology, tissues, and homeostatic mechanisms of the integumentary, skeletal, nervous, muscular, and sensory systems. This course may not be used to fulfill major or minor requirements in the following programs: BA Biology, BS Biology, BS Botany, BS Environmental and Conservation Biology, BS Medical Technology, BS Biotechnology, BS Zoology, and the Biological Sciences minor.

**Prerequisite:** None.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 3 lecture, 3 lab

**Grade Mode:** Standard Letter

**Attributes:** Kent Core Basic Sciences, Kent Core Basic Sciences Lab

**BSCI 21020 ANATOMY AND PHYSIOLOGY II 4 Credit Hours**

Anatomy and physiological processes as related to the following organ systems: endocrine, circulatory, respiratory, digestive, urinary and reproductive. This course may not be used to fulfill major or minor requirements in the following programs: BA Biology, BS Biology, BS Botany, BS Environmental and Conservation Biology, BS Medical Technology, BS Biotechnology, BS Zoology, and the Biological Sciences minor.

**Prerequisite:** BSCI 21010.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 3 lecture, 3 lab

**Grade Mode:** Standard Letter

**BSCI 26002 ECOLOGICAL PRINCIPLES OF PEST MANAGEMENT 3 Credit Hours**

Basic principles of integrated pest management, pesticide application, pest identification and environmental effects. Lecture three hours weekly; offered only at the Salem Campus. This course may not be used to fulfill major or minor requirements in the following programs: BA Biology, BS Biology, BS Botany, BS Environmental and Conservation Biology, BS Medical Technology, BS Biotechnology, BS Zoology, and the Biological Sciences minor.

**Prerequisite:** BSCI 16001.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**BSCI 26003 PLANT IDENTIFICATION AND SELECTION I 3 Credit Hours**

Identification and selection of horticulturally important plant species. Emphasis on woody species, shrubs and trees. Lecture two hours weekly, lab three hours weekly. Offered only at the Salem Campus. This course may not be used to fulfill major or minor requirements in the following programs: BA Biology, BS Biology, BS Botany, BS Environmental and Conservation Biology, BS Medical Technology, BS Biotechnology, BS Zoology, and the Biological Sciences minor.

**Prerequisite:** HORT 16001 and BSCI 16001.

**Schedule Type:** Laboratory, Lecture

**Contact Hours:** 2 lecture, 3 lab

**Grade Mode:** Standard Letter

**BSCI 26004 PLANT IDENTIFICATION AND SELECTION II 3 Credit Hours**

Identification and selection of horticulturally important plant species. Emphasis on herbaceous species, ground covers and vines. Lecture two hours weekly, lab three hours weekly. Offered only at the Salem Campus. This course may not be used to fulfill major or minor requirements in the following programs: BA Biology, BS Biology, BS Botany, BS Environmental and Conservation Biology, BS Medical Technology, BS Biotechnology, BS Zoology, and the Biological Sciences minor.

**Prerequisite:** BSCI 16001 and HORT 16001.

**Schedule Type:** Laboratory, Lecture

**Contact Hours:** 2 lecture, 3 lab

**Grade Mode:** Standard Letter

**BSCI 30050 HUMAN GENETICS 3 Credit Hours**

Modern concepts of genetics applicable to the human including examination of genetically related diseases and their societal implications. This course may not be used to fulfill major or minor requirements in the following programs: BA Biology, BS Biology, BS Botany, BS Environmental and Conservation Biology, BS Medical Technology, BS Biotechnology, BS Zoology, and the Biological Sciences minor.

**Prerequisite:** 8 credit hours of Biology courses; and 3 credit hours of Chemistry courses.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**BSCI 30100 NEUROSCIENCE I 3 Credit Hours**

(Crosslisted with NEUR 30100) Neuroscience I will cover basic principles in neuroscience from the cellular to systems levels. After completion of the course, students will have a basic understanding of how the nervous system is organized, electrophysiology properties of neurons, sensory systems, and motor pathways.

**Prerequisite:** BSCI 30140.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**BSCI 30105 CAREER PATHWAYS IN BIOLOGY 1 Credit Hour**

Orients students toward various career pathways in the biological sciences.

**Prerequisite:** Minimum C- grade in the following courses BSCI 10110 and BSCI 10120.

**Schedule Type:** Lecture

**Contact Hours:** 1 lecture

**Grade Mode:** Satisfactory/Unsatisfactory

**BSCI 30130 HUMAN PHYSIOLOGY 3 Credit Hours**

Integrating mechanisms, pharmacological and pathological considerations for selected organ systems.

**Prerequisite:** Minimum C- grade in the following courses BSCI 20019; or BSCI 10110 and BSCI 10120; and 4 credit hours of Chemistry courses.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**BSCI 30140 CELL BIOLOGY 4 Credit Hours**

Investigation of the cell as the fundamental unit of life with an emphasis on the relationship between cellular structure and function. Three-hour lecture and three-hour lab weekly.

**Prerequisite:** Minimum C- grade in BSCI 10120; and CHEM 10060 and 10062.

**Schedule Type:** Laboratory, Lecture, Combined Lecture and Lab

**Contact Hours:** 3 lecture, 3 lab

**Grade Mode:** Standard Letter

**BSCI 30156 ELEMENTS OF GENETICS 3 Credit Hours**

Principles of organic mechanisms for expression and transmission of traits as studied in molecules, cells, organisms and populations.

**Prerequisite:** Minimum C- grade in the following courses BSCI 10110 and 10120; and MATH 10772 or MATH 10775 or MATH 11009 or MATH 11010 or MATH 12002 or MATH 12021.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**BSCI 30157 GENETICS LABORATORY 1 Credit Hour**

Consists of hands-on experiments with modern computational and molecular biology experimental approaches.

**Prerequisite:** Minimum C- grade in the following courses BSCI 10110 and BSCI 10120.

**Corequisite:** BSCI 30156.

**Schedule Type:** Laboratory

**Contact Hours:** 3 lab

**Grade Mode:** Standard Letter

**BSCI 30158 READINGS IN GENETICS 1 Credit Hour**

This course emphasizes principles covered in elements of genetics.

**Prerequisite:** Minimum C- grade in the following courses BSCI 10110 and BSCI 10120.

**Corequisite:** BSCI 30156.

**Schedule Type:** Lecture

**Contact Hours:** 1 lecture

**Grade Mode:** Standard Letter

**BSCI 30171 GENERAL MICROBIOLOGY 4 Credit Hours**

Fundamental principles of microbiology and of organisms including their structure, physiology, genetics, pathogenicity, classification, mechanisms of cultivation and control. Lecture three hours, lab three hours weekly.

**Prerequisite:** Minimum C- grade in BSCI 10110; and BSCI 30140; and CHEM 10060, 10061, 10062 and 10063.

**Schedule Type:** Laboratory, Lecture, Combined Lecture and Lab

**Contact Hours:** 3 lecture, 1 lab

**Grade Mode:** Standard Letter

**BSCI 30200 NEUROSCIENCE II 3 Credit Hours**

(Cross-listed with NEUR 30200) The course builds off of the principles taught in Neuroscience I by providing more depth and breadth to the functioning of the nervous system. The course provides students a more complete understanding of the neuroanatomy, neurophysiology and neural circuitry involved in sensory processing, motor control, and higher-order cognitive functioning.

**Prerequisite:** NEUR 30100 or BSCI 30100.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**BSCI 30267 PLANT PHYSIOLOGY 4 Credit Hours**

Introduction to biochemical processes in plants and plant cells. How plants grow and maintain their bodies through dynamic interactions with the environment. Lecture three hours weekly, lab two hours weekly.

**Prerequisite:** BSCI 10120, CHEM 10060 and 10062.

**Schedule Type:** Laboratory, Lecture

**Contact Hours:** 3 lecture, 3 lab

**Grade Mode:** Standard Letter

**BSCI 30270 GENERAL PLANT BIOLOGY 3 Credit Hours**

Covers all topics in modern plant biology, including molecular and cellular biology, physiology, anatomy, development, ecology, evolution and diversity.

**Prerequisite:** Minimum C- grades in BSCI 10110 and BSCI 10120.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter



**BSCI 30271 GENERAL PLANT BIOLOGY LABORATORY 1 Credit Hour**

Laboratory and greenhouse exercises in general plant biology.

**Prerequisite:** Minimum C- grade in the following courses BSCI 10110 and BSCI 10120.

**Corequisite:** BSCI 30270.

**Schedule Type:** Laboratory

**Contact Hours:** 1 lab

**Grade Mode:** Standard Letter

**BSCI 30274 FORESTRY 3 Credit Hours**

Management of the forest resource within appropriate environmental constraints for sustained use relative to watershed protection, lumber production, recreation and wildlife.

**Prerequisite:** Minimum C- grade in BSCI 10110.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**BSCI 30275 LOCAL FLORA (ELR) 4 Credit Hours**

Identification and field study of local plants: native, naturalized and cultivated. Two-hour lecture and six-hour lab weekly.

**Prerequisite:** Minimum C- grade in the following courses BSCI 10110 and 10120.

**Schedule Type:** Laboratory, Lecture

**Contact Hours:** 2 lecture, 6 lab

**Grade Mode:** Standard Letter

**Attributes:** Experiential Learning Requirement

**BSCI 30277 ECONOMIC BOTANY 3 Credit Hours**

Economic botany is the scientific study of plants that are important to humans. It considers how plants are used and how plants have shaped up past and modern cultural development.

**Prerequisite:** Minimum C- grades in BSCI 10110.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**BSCI 30300 EXPERIMENTAL METHODS IN NEUROSCIENCE 1 Credit Hour**

(Cross-listed with NEUR 30300) Accompanying laboratory course to NEUR 30200 or BSCI 30200. Course provides a greater depth of understanding into and hand-on experience with the principles discussed in NEUR 30200 or BSCI 30200. Course provides students a full understanding in the major research techniques used in neuroscience.

The major topics covered include: electrophysiology, neuroanatomy, learning and memory, the neuromuscular junction and sensory perception.

**Prerequisite:** Minimum C grade in NEUR 30100 or BSCI 30100.

**Pre/corequisite:** NEUR 30200 or BSCI 30200.

**Schedule Type:** Laboratory

**Contact Hours:** 3 lab

**Grade Mode:** Standard Letter

**BSCI 30360 GENERAL ECOLOGY 4 Credit Hours**

Principles of ecology based on field studies of local plant and animal communities. Lecture three hours, lab three hours weekly.

**Prerequisite:** Minimum C- grade in BSCI 10110.

**Schedule Type:** Laboratory, Lecture

**Contact Hours:** 3 lecture, 1 lab

**Grade Mode:** Standard Letter

**BSCI 30361 BIOGEOGRAPHY 3 Credit Hours**

Geographical distribution of biotic communities with special reference to North America and to their environmental control.

**Prerequisite:** Minimum C- grade in the following courses BSCI 10110 and 10120.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**BSCI 30362 INTRODUCTION TO BIOLOGY OF THE TROPICS 3 Credit Hours**

Biology and conservation of tropical ecosystems and organisms.

**Prerequisite:** Minimum C- grade in BSCI 10110; and junior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**BSCI 30370 CLIMATE CHANGE BIOLOGY 3 Credit Hours**

This course focuses on the biological impacts of climate change. It includes background on the issue of the biological consequences of climate change, as well as the history of research, current impacts and projected changes discussed in the Inter-Governmental Panel on Climate Change report, and the controversies of climate-change skeptics. It also includes the biogeochemistry of climate change effects on biology, climate change, and biological interactions, vector-borne infectious diseases, rates of evolution, and Great Lakes biology.

**Prerequisite:** Minimum C- grade in BSCI 10110; or ENV5 22070.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**BSCI 30517 HUMAN ANATOMY 4 Credit Hours**

An intensive investigation of the anatomy and development of the human body.

**Prerequisite:** Senior standing; and special approval.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 3 lecture, 3 lab

**Grade Mode:** Standard Letter

**BSCI 30518 VERTEBRATE ANATOMY 4 Credit Hours**

Concepts and methods of functional morphology. Comparative study of vertebrate organs and systems: skeletal, muscular, digestive, respiratory, circulatory, urogenital, nervous and endocrine. Lecture three hours, lab three hours weekly.

**Prerequisite:** Minimum C- grade in BSCI 10110 or 10120.

**Schedule Type:** Laboratory, Lecture

**Contact Hours:** 3 lecture, 1 lab

**Grade Mode:** Standard Letter

**BSCI 30519 VERTEBRATE EMBRYOLOGY AND DEVELOPMENTAL ANATOMY 4 Credit Hours**

Gametogenesis, fertilization, embryogenesis, organogenesis, normal/ abnormal embryological development; emphasizing mammal; amphibian, bird illustrating general principles and concepts. Laboratory studies of frog, chick, pig developmental anatomy. Three one hour lectures and one three hour lab.

**Prerequisite:** BSCI 30518 and 30140.

**Schedule Type:** Laboratory, Lecture

**Contact Hours:** 3 lecture, 1 lab

**Grade Mode:** Standard Letter

**BSCI 30520 INTRODUCTION TO NEUROSCIENCE 3 Credit Hours**

Basic principles in neuroscience from the cellular to systems level. Covers how the nervous system is organized, how it detects sensory stimuli to create a mental representation of their environment and output pathways by which the nervous system can control movement, hormone levels and physiological processes.

**Prerequisite:** BSCI 30140.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**BSCI 30560 INVERTEBRATE ZOOLOGY 4 Credit Hours**

Survey of the animal kingdom emphasizing evolutionary developments. Three-hour lecture and three-hour lab weekly.

**Prerequisite:** Minimum C- grade in the following courses BSCI 10110 and 10120.

**Schedule Type:** Laboratory, Lecture

**Contact Hours:** 3 lecture, 3 lab

**Grade Mode:** Standard Letter

**BSCI 30580 ENTOMOLOGY 4 Credit Hours**

Classification, biology and ecology of the principal groups of insects.

Lecture three hours, lab three hours weekly.

**Prerequisite:** Minimum C- grade in the following courses BSCI 10110 and 10120; and 10 hours of Biology courses.

**Schedule Type:** Laboratory, Lecture

**Contact Hours:** 3 lecture, 1 lab

**Grade Mode:** Standard Letter

**BSCI 30582 ORNITHOLOGY 4 Credit Hours**

Field study of natural history of local birds. Lecture three hours, lab three hours weekly.

**Prerequisite:** Minimum C- grade in the following courses BSCI 10110 and 10120.

**Schedule Type:** Laboratory, Lecture

**Contact Hours:** 3 lecture, 1 lab

**Grade Mode:** Standard Letter

**BSCI 30789 FEASTS AND PLAGUES: THE SCIENCE OF ITALIAN FOOD, WINE, AND DISEASE 3 Credit Hours**

This course explores the microbial mechanisms responsible for plagues such as the Black Death as well as for their positive roles in food and wine production. These costs and benefits are explored in Florence, Italy since each is ingrained in the city's history, culture, art, and biology. Course activities include food and wine tastings and field trips to historical sites and museums in Florence and Siena. This course is designed to appeal to students with a wide array of interests in human health and society. Students will analyze genomes of microbes responsible for human disease, discuss ecological and biological factors associated with disease transmission, construct cemetery life tables, discuss the impacts of disease on Italian art, architecture, and culture, master knowledge of the fermentation process, and compare and contrast the microbiomes and environments of vineyards in Tuscany vs. California.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**BSCI 40020 BIOLOGY OF AGING 3 Credit Hours**

(Slashed with BSCI 50020) Current theories of aging; changes at the cellular level associated with aging in humans; course covers the normal aging process, dysfunction, and diseases of the elderly categorized by body systems. This course may not be used to fulfill major or minor requirements in the following programs: BA Biology, BS Biology, BS Botany, BS Environmental and Conservation Biology, BS Medical Technology, BS Biotechnology, BS Zoology, and the Biological Sciences minor.

**Prerequisite:** BSCI 20019; or BSCI 21010 and BSCI 21020; or BSCI 11010 and BSCI 11020; or ATTR 25057 and ATTR 25058; or EXSC 25057 and EXSC 25058.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**BSCI 40104 INTRODUCTION TO BEEKEEPING 2 Credit Hours**

(Cross-listed with BSCI 50104) Covers basic beekeeping practices and provides students with an in-depth understanding of the honey bee colony through participation in hands-on activities, observation and experimentation.

**Prerequisite:** BSCI 10110 and 10120 with minimum C- grades; and junior or senior standing.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 1 lecture, 2 lab

**Grade Mode:** Standard Letter

**BSCI 40141 EXPERIMENTAL DESIGN AND ANALYSIS IN MOLECULAR BIOLOGY 3 Credit Hours**

(Slashed with BSCI 50141 and BSCI 70141) This course explores experimental design and analysis of biological data using tools of molecular biology. Students will study modern and classic techniques and learn the pros and cons of each technique as well as alternative approaches in the context of experiments. The course will consist of a combination of lectures, student presentations and class discussions based on recent primary literature, with particular focus on cell death and disease, including cancer.

**Prerequisite:** BSCI 30156 and BSCI 30140.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**BSCI 40142 BIOENERGETICS 3 Credit Hours**

(Cross-listed with BSCI 50142 and BSCI 70142) Lecture and discussion of respiration and photosynthesis, their origin, development and control in living systems. Concepts are introduced from fundamental principles. Lecture three hours weekly.

**Prerequisite:** BSCI 30140 and CHEM 20481 or 30481.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**BSCI 40143 EUKARYOTIC CELL BIOLOGY 3 Credit Hours**

Current survey of the structure and function of eukaryotic cells, including recent advances in research technology. Lecture three hours weekly.

**Prerequisite:** BSCI 30140 and CHEM 20481 or 30481.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**BSCI 40146 DEVELOPMENTAL BIOLOGY 3 Credit Hours**

(Cross-listed with BSCI 50146 and BSCI 70146) Fundamental concepts and paradigms of development as exemplified by major model organisms. Examines our modern understanding of the molecular, cellular and genetic basis of developmental biology.

**Prerequisite:** Minimum B grades in the following courses BSCI 30156 and BSCI 30140; and senior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**BSCI 40147 DEVELOPMENTAL NEUROBIOLOGY 3 Credit Hours**

(Slashed with BSCI 50147 and BSCI 70147) Covers fundamental principles in developmental neurobiology, including molecular and cellular processes involved in the formation of the vertebrate central nervous system.

**Prerequisite:** BSCI 30140; and junior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**BSCI 40148 PRINCIPLES OF INFECTIOUS DISEASE 3 Credit Hours**

(Slashed with BSCI 50148 and BSCI 70148) Basic principles of infectious disease, with emphasis on major human pathogens including protozoa, bacteria, and viruses. Topics include infection establishment, spread within the host, pathology, immunity, and host behavior.

**Prerequisite:** BSCI 30171; and CHEM 10060; and CHEM 10061; and CHEM 10062; and CHEM 10063.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**BSCI 40150 MOLECULAR MECHANISMS OF DISEASE: CANCER 3 Credit Hours**

(Cross-listed with BSCI 50150 and BSCI 70150) Explores the current understanding of molecular and cellular mechanisms of disease processes, including new technologies and modern strategies in the forefront of future biomedical research. Emphasis on a review of primary literature.

**Prerequisite:** BSCI 30156 and BSCI 30140; and junior or senior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**BSCI 40151 MECHANISMS OF DISEASE: OBESITY AND RELATED METABOLIC DISEASES 3 Credit Hours**

(Slashed with BSCI 50151 and BSCI 70151) Addresses obesity from multiple angles, including health and disease process, underlying physiology and cell and molecular biology, and the role of behavior. Emphasis on a review of primary literature to discuss obesity causes, consequences, and treatments.

**Prerequisite:** Minimum C- grade in BSCI 10120; and BSCI 30130 or BSCI 40430.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**BSCI 40152 MOLECULAR MECHANISMS OF DISEASE: NEUROLOGICAL DISORDERS 3 Credit Hours**

(Slashed with BSCI 50152 and BSCI 70152) Major concepts and theoretical principles underlying neurological disorders.

**Prerequisite:** Minimum C- grade in the following courses BSCI 10110 and BSCI 10120; and junior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**BSCI 40154 DIABETES AND CARDIOVASCULAR DISEASE 3 Credit Hours**

(Slashed with BSCI 50154 and BSCI 70154) Physiological aspects of diabetes and cardiovascular disease, including associated pathologies and therapies.

**Prerequisite:** BSCI 40430; or BSCI 30140 and BSCI 30130.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**BSCI 40157 NEUROBIOLOGY OF DRUG ADDICTION 3 Credit Hours**

(Slashed with BSCI 50157 and BSCI 70157) Introduction to neural structures, circuitry, and chemistry underlying drug addiction, main categories of drugs of abuse, and how brain cells and circuits are modified in response to addictive drugs.

**Prerequisite:** Minimum C- grades in BSCI 10110 and BSCI 10120; and junior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**BSCI 40158 MOLECULAR BIOLOGY 3 Credit Hours**

Molecular genetics, DNA and RNA structure, chromosomes, DNA replication, recombination, genetic transcription and translation, gene expression, current concepts and technologies.

**Prerequisite:** BSCI 30140 and 30156.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**BSCI 40159 MOLECULAR BIOLOGY LABORATORY (ELR) (WIC) 3 Credit Hours**

Experience in research methods for studying cellular and molecular processes in plant and animal systems.

**Prerequisite:** BSCI 30140 and 30156.

**Schedule Type:** Laboratory

**Contact Hours:** 6 lab

**Grade Mode:** Standard Letter

**Attributes:** Experiential Learning Requirement, Writing Intensive Course

**BSCI 40160 MARINE BIOLOGY 3 Credit Hours**

(Slashed with BSCI 50160 and BSCI 70160) Natural history and ecology of marine organisms, with emphasis on life in coastal habitats.

**Prerequisite:** Minimum C- grade in the following courses BSCI 10110 and BSCI 10120.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**BSCI 40162 SOIL BIOLOGY 3 Credit Hours**

(Slashed with BSCI 50162 and BSCI 70162) The ecology and physiology of organisms that live in soil, including microbes, plants and animals. The physical and chemical aspects of soil are introduced to understand how organisms in soils impact nutrient cycles and ecosystem development.

**Prerequisite:** Minimum C- grade in the following courses BSCI 10110 and BSCI 10120; and junior or senior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**BSCI 40163 EVOLUTION 3 Credit Hours**

(Cross-listed with BSCI 50163 and BSCI 70163) History of evolutionary theory, the evidences of evolution, the evolutionary forces and the products of these forces. Lecture three hours weekly.

**Prerequisite:** BSCI 30156; and 4 hours of Biology courses.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**BSCI 40166 ENVIRONMENTAL SENSOR TECHNOLOGY 2 Credit Hours**

(Slashed with BSCI 50166 and BSCI 70166) Provides learning experiences in the field of environmental wireless sensor technology for performing both isolated and collaborative tasks. Students will use practical tools for WST design.

**Prerequisite:** Special approval.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**BSCI 40170 STREAM BIOLOGY 3 Credit Hours**

(Slashed with BSCI 50170 and BSCI 70170) Identification, biology and ecology of stream-inhabiting organisms. Lecture two hours, lab three hours weekly.

**Prerequisite:** Minimum C- grade in the following courses BSCI 10110 and BSCI 10120.

**Schedule Type:** Laboratory, Lecture

**Contact Hours:** 2 lecture, 1 lab

**Grade Mode:** Standard Letter

**BSCI 40174 IMMUNOLOGY 3 Credit Hours**

(Cross-listed with BSCI 50174 and BSCI 70174) Survey of the mammalian host responses to self and non-self with emphasis on the cellular and molecular mechanisms by which innate and acquired immunity result. Experimental design and data analyses are related to current methodologies used to study immunology. Lectures 3 hours weekly.

**Prerequisite:** BSCI 30171 and CHEM 10060, 10061, 10062 and 10063.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**BSCI 40191 SENIOR SEMINAR 1 Credit Hour**

(Repeatable for credit) A capstone seminar course to examine biological topics and scientific contributions across subdisciplines. Discussion of current problems in the biological sciences related to societal needs and concerns.

**Prerequisite:** Biology major; and senior standing.

**Schedule Type:** Seminar

**Contact Hours:** 1 other

**Grade Mode:** Satisfactory/Unsatisfactory

**BSCI 40192 INTERNSHIP IN BIOLOGICAL SCIENCES (ELR) 3-12 Credit Hours**

(Repeatable for credit) Work experience and training in the biological sciences under the supervision of appropriate personnel in a government agency, nonprofit organization or business. Maximum of 4 credit hours to count toward BSCI degrees as upper division elective hours.

**Prerequisite:** 18 hours of Biology; and 2.750 minimum overall GPA in Biology coursework; and special approval.

**Schedule Type:** Practical Experience

**Contact Hours:** 3-12 other

**Grade Mode:** Standard Letter

**Attributes:** Experiential Learning Requirement

**BSCI 40193 VARIABLE TITLE WORKSHOP IN BIOLOGICAL SCIENCES 1-6 Credit Hours**

(Repeatable for credit) Topics to be offered will meet specific needs in the biological sciences.

**Prerequisite:** Permission.

**Schedule Type:** Workshop

**Contact Hours:** 1-6 other

**Grade Mode:** Satisfactory/Unsatisfactory

**BSCI 40195 SPECIAL TOPICS IN BIOLOGY 1-3 Credit Hours**

(Repeatable for credit) (Cross-listed with BSCI 50195 and BSCI 70195) Special topics in biology.

**Prerequisite:** 18 hours of Biology coursework; and special approval of instructor.

**Schedule Type:** Laboratory, Lecture

**Contact Hours:** 1-3 lecture, 2-6 lab

**Grade Mode:** Standard Letter-IP

**BSCI 40196 INDIVIDUAL INVESTIGATION (ELR) 1-3 Credit Hours**

(Repeatable for credit) Research study under the direction of a BSCI faculty mentor. May be repeated; however, a maximum of 6 credit hours count toward BSCI degrees as upper-division elective hours.

**Prerequisite:** A minimum BSCI grade average of 2.750; and at least 18 credit hours of BSCI coursework; and departmental and faculty mentor approvals required.

**Schedule Type:** Individual Investigation

**Contact Hours:** 1-3 other

**Grade Mode:** Standard Letter-IP

**Attributes:** Experiential Learning Requirement

**BSCI 40199 SENIOR HONORS THESIS (ELR) 1-10 Credit Hours**

(Repeatable for credit) Honors thesis research project completed during the senior year with BSCI faculty mentor and research committee. Maximum of 4 credit hours to count toward BSCI degrees as upper division elective hours.

**Prerequisite:** Departmental faculty mentor; and honors college approval.

**Schedule Type:** Senior Project/Honors Thesis

**Contact Hours:** 1-10 other

**Grade Mode:** Standard Letter-IP

**Attributes:** Experiential Learning Requirement

**BSCI 40220 BIOINFORMATICS 3 Credit Hours**

(Cross-listed with BTEC 40220) (Slashed with BSCI 50220 and BSCI 70220) Analysis of biological databases, including nucleic acid and protein sequence searching, multiple sequence alignment, protein classification, phylogenetic analysis, comparative genomics, proteomics and protein structure analysis.

**Prerequisite:** BSCI 30140 and BSCI 30156 and BSCI 40158.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter



**BSCI 40221 ECOLOGICAL GENOMICS 3 Credit Hours**

(Slashed with BSCI 50221 and BSCI 70221) Covers principles, concepts and techniques of ecological genomics, emphasizing the application of genomics to ecology and biogeochemistry and using genomic, metagenomic and metatranscriptomic data.

**Prerequisite:** BSCI 30140; and BSCI 30156; and BSCI 30360.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**BSCI 40222 INVASION BIOLOGY 3 Credit Hours**

(Slashed with BSCI 50222 and BSCI 70222) This course will provide an overview of the science of biological invasions, focusing on the processes of introduction, establishment, and spread. It will discuss both invasions of species from other countries as well as encroachment of native species. The economic and ecological impacts of both plant and animal invasive species, as well as ways of combating the harmful effects of invasions will be discussed. Prerequisite: BSCI 10110

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**BSCI 40224 QUANTITATIVE METHODS IN BIOLOGY 4 Credit Hours**

Introduction to the quantitative skills required of practicing biologists (experimental design, graphing, inference, and management of biological data). Real data from biological studies will be used to address fundamental questions in the biological sciences. Laboratory exercises will give experience with spreadsheet and statistical software used by practicing biologists.

**Prerequisite:** Minimum C- grade in BSCI 10110 or BSCI 10120; and minimum 55 ALEKS math score, or MATH 10675 or MATH 10775 or MATH 11010 with minimum C- grade.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 3 lecture, 2 lab

**Grade Mode:** Standard Letter

**BSCI 40242 SEMINAR ON MEDICAL PRACTICE FOR UNDERSERVED POPULATIONS 2 Credit Hours**

(Slashed with BSCI 50242). Course will introduce students to primary care and medical practice in rural and urban settings. Physicians and other healthcare practitioners from rural and urban settings will serve as invited speakers in this seminar. Preference for registration will be given to students following the Baccalaureate-MD program with junior standing and minimum 3.500 overall GPA.

**Prerequisite:** Special approval.

**Schedule Type:** Seminar

**Contact Hours:** 2 other

**Grade Mode:** Satisfactory/Unsatisfactory

**BSCI 40272 PLANT ANATOMY 4 Credit Hours**

(Slashed with BSCI 50272 and BSCI 70272) Development and structure of cells, tissues and tissue systems of seed plants. Both vegetative and reproductive structures of angiosperms will be emphasized. Lecture two hours, lab six hours weekly.

**Prerequisite:** Minimum C- grade in the following courses BSCI 10110 and BSCI 10120.

**Schedule Type:** Laboratory, Lecture

**Contact Hours:** 2 lecture, 6 lab

**Grade Mode:** Standard Letter

**BSCI 40273 INTRODUCTION TO MYCOLOGY 3 Credit Hours**

(Slashed with BSCI 50273 and BSCI 70273) Introduces key features defining the fungi. Topics include anatomical and morphological features, reproductive strategies, identification, and community interactions.

**Prerequisite:** Minimum C- grade in the following courses BSCI 10110 and BSCI 10120.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**BSCI 40274 PLANT COMMUNITIES OF OHIO 3 Credit Hours**

(Slashed with BSCI 50274 and BSCI 70274) Designed to familiarize students with the range of plant communities within Ohio by relating plant identification to biological, hydrological, geological, and climatic forces.

**Prerequisite:** Minimum C- grade in the following courses BSCI 10110 and BSCI 10120.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**BSCI 40275 PLANT SYSTEMATICS AND EVOLUTION 4 Credit Hours**

(Slashed with BSCI 50275 and BSCI 70275) Introduction to vascular plant diversity, with a focus on flowering plants. Students will learn characteristics of vascular plants and how to identify major plant groups. Lecture three hours weekly, lab two hours weekly.

**Prerequisite:** Minimum C- grade in the following courses BSCI 10110 and BSCI 10120.

**Schedule Type:** Laboratory, Lecture

**Contact Hours:** 3 lecture, 1 lab

**Grade Mode:** Standard Letter

**BSCI 40292 INTERNSHIP IN PRIMARY CARE FOR THE UNDERSERVED (ELR) 2 Credit Hours**

(Slashed with BSCI 50292) Students will be placed in internships in urban or rural healthcare settings. Registration preference will be given to students following the Baccalaureate/M.D. pathway and who have junior standing and a minimum 3.500 overall GPA.

**Prerequisite:** Special approval.

**Schedule Type:** Practical Experience

**Contact Hours:** 6 other

**Grade Mode:** Standard Letter

**Attributes:** Experiential Learning Requirement

**BSCI 40341 STEM CELL BIOLOGY: PRINCIPLES AND APPLICATIONS 3 Credit Hours**

(Slashed with BSCI 50341 and BSCI 70341) Examination of stem cells from various tissues, molecular mechanism of stem cell differentiation, and use of stem cells in clinical applications.

**Prerequisite:** BSCI 30140.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**BSCI 40360 ICHTHYOLOGY 4 Credit Hours**

Basic biology, natural history, behavior and ecology of the fishes. Three hour lecture and three hour lab weekly.

**Prerequisite:** Minimum C- grade in the following courses BSCI 10110 and BSCI 10120; and junior standing.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 3 lecture, 3 lab

**Grade Mode:** Standard Letter



**BSCI 40363 MICROBIAL ECOLOGY 3 Credit Hours**

(Slashed with BSCI 50363 and BSCI 70363) Microbial interactions with their biotic and abiotic environment; control of distribution and physiological activities; biochemical cycles; current techniques; emphasis on bacteria in aquatic systems.

**Prerequisite:** BSCI 30171 and BSCI 30360.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**BSCI 40364 LIMNOLOGY 3 Credit Hours**

(Cross-listed with BSCI 50364 and BSCI 70364) The study of the principles of aquatic ecology with emphasis on lakes and reservoirs.

**Prerequisite:** BSCI 30360.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**BSCI 40365 FIELD METHODS IN ORNITHOLOGY (ELR) 3 Credit Hours**

(Slashed with BSCI 50365 and BSCI 70365) Habitat-based survey of Ohio birds. Field-based lectures and activities cover location, observation and identification of birds and their songs, as well as bird ecology and behavior.

**Prerequisite:** Minimum C- grade in the following courses BSCI 10110 and 10120.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Experiential Learning Requirement

**BSCI 40368 WETLAND ECOLOGY AND MANAGEMENT (ELR) 4 Credit Hours**

(Slashed with BSCI 50368 and BSCI 70368) Lecture, laboratory and field study of the principles of wetland ecology including adaptations of the biota to environmental conditions, comparison among different wetland habitat types and habitat management. Lecture 3 hours, lab 3 hours weekly.

**Prerequisite:** Minimum C- grade in the following courses BSCI 10110 and 10120; and 10 hours of Biology coursework.

**Schedule Type:** Laboratory, Lecture

**Contact Hours:** 3 lecture, 1 lab

**Grade Mode:** Standard Letter

**Attributes:** Experiential Learning Requirement

**BSCI 40374 CONSERVATION BIOLOGY (ELR) 4 Credit Hours**

(Cross-listed with BSCI 50374 and BSCI 70374) Provides a critical analysis of the factors that threaten biological diversity in the biosphere and the consequences on biological processes and quality of life.

**Prerequisite:** BSCI 30360.

**Schedule Type:** Lecture

**Contact Hours:** 4 lecture

**Grade Mode:** Standard Letter

**Attributes:** Experiential Learning Requirement

**BSCI 40375 ENVIRONMENTAL BIOLOGY AND MANAGEMENT 4 Credit Hours**

(Slashed with BSCI 50375 and BSCI 70375) Introduction to current concepts in applied ecology and ecosystem management. Students will learn aspects of ecosystem management and restoration including: 1) how environmental factors affect organism survival and ecosystem structure, 2) how human impacts such as pollution, habitat fragmentation, introduction of invasive species affect ecosystems, and 3) the use of ecological principles and methods to restore and manage ecosystems.

**Prerequisite:** Minimum C- grade in the following courses BSCI 10110 and BSCI 10120; and BSCI 30360.

**Schedule Type:** Lecture

**Contact Hours:** 4 lecture

**Grade Mode:** Standard Letter

**BSCI 40376 TROPICAL FIELD BIOLOGY AND CONSERVATION (ELR) 5 Credit Hours**

(Slashed with BSCI 50376 and BSCI 70376) Introduction to major issues in tropical ecology and conservation including the threats to the biological diversity of tropical ecosystems resulting from human activities. Students learn how to apply modern field-observation techniques to generate and test problem-solving hypotheses.

**Prerequisite:** Minimum C- grade in the following courses BSCI 10110 and BSCI 10120; junior or senior standing.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 3 lecture, 6 lab

**Grade Mode:** Standard Letter

**Attributes:** Experiential Learning Requirement

**BSCI 40380 BIOGEOCHEMISTRY 3 Credit Hours**

(Cross-listed with GEOL 40380 and GEOL 50380) (Slashed with BSCI 50380 and BSCI 70380) Biogeochemistry explores the chemical, physical, geological, and biological processes and reactions that shape the world around us, and provides tools for understanding human alterations to global systems. In this course, we will explore elemental cycles in diverse terrestrial and aquatic ecosystems, as well as assess how humans have drastically altered these elemental cycles on a global scale, and the implications of these changes for biological systems.

**Prerequisite:** Minimum C- grade in the following courses BSCI 10110 and BSCI 10120 or GEOL 11040 and (GEOL 11042 or GEOL 21062 or GEOL 21080); and CHEM 10060 and CHEM 10062.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**BSCI 40430 ANIMAL PHYSIOLOGY 3 Credit Hours**

Physiologic principles and concepts.

**Prerequisite:** BSCI 30140; CHEM 10060, 10061, 10062 and 10063.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**BSCI 40431 NEUROENDOCRINOLOGY 3 Credit Hours**

(Slashed with BSCI 50431 and BSCI 70431) This course is an introduction to neuroendocrinology. There will be a focus on the major sources of neurohormones, the different classes of neurohormones, as well as how neurohormones are regulated, how they signal, and how they function. This course will integrate aspects of endocrinology, neuroscience, and physiology. After completion of this course students should have a basic understanding of the various neuroendocrine messengers and how they function.

**Prerequisite:** BSCI 30130 or BSCI 40430 or BSCI 40460 or NEUR 30100.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**BSCI 40432 ENDOCRINOLOGY 3 Credit Hours**

(Cross-listed with BSCI 50432 and BSCI 70432) Principles of endocrine regulation of physiological and metabolic processes. Morphological and functional interrelationships between systems. Lecture three hours.

**Prerequisite:** BSCI 30130 or BSCI 40430.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**BSCI 40433 MAMMALIAN PHYSIOLOGY I 3 Credit Hours**

Physiology of the endocrine, nervous, and reproductive systems.

**Prerequisite:** BSCI 30140 and CHEM 10060 and CHEM 10061 and CHEM 10062 and CHEM 10063; and CHEM 20481 or 30481.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**BSCI 40434 MAMMALIAN PHYSIOLOGY II 3 Credit Hours**

Physiology of cardiovascular, renal, respiratory and digestive systems. Lecture three hours.

**Prerequisite:** BSCI 30140 and CHEM 10060 and CHEM 10061 and CHEM 10062 and CHEM 10063; and CHEM 20481 or 30481.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**BSCI 40450 BIOLOGICAL CLOCKS 2 Credit Hours**

(Cross-listed with BSCI 50450 and BSCI 70450) Topics covered include the characteristics of biological clocks, their ecology, molecular biology, and neurobiology, the function and organization of sleep, and the medical implications of biological rhythmicity.

**Prerequisite:** BSCI 30156; and BSCI 30520 or 40430 or 40433 or PSYC 41363.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**BSCI 40460 ADVANCED HUMAN PHYSIOLOGY 3 Credit Hours**

(Slashed with BSCI 50460 and BSCI 70460) Major concepts and theoretical principles of human physiology, including nervous, endocrine, cardiovascular, respiratory, renal, gastrointestinal and reproductive systems.

**Prerequisite:** BSCI 30140; and junior standing.

**Corequisite:** BSCI 40462.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**BSCI 40462 ADVANCED HUMAN PHYSIOLOGY: READINGS AND CASE STUDIES 1 Credit Hour**

(Slashed with BSCI 50462 and BSCI 70462) Designed to complement the lecture course in Advanced Human Physiology. Students will read primary literature in physiology and work independently and in groups to apply their knowledge to solving case studies.

**Prerequisite:** BSCI 30140; and junior standing.

**Corequisite:** BSCI 40460.

**Schedule Type:** Lecture

**Contact Hours:** 1 lecture

**Grade Mode:** Standard Letter

**BSCI 40463 MEDICAL BIOTECHNOLOGY 3 Credit Hours**

(Slashed with BSCI 50463 and BSCI 70463) (Cross-listed BTEC 40463) Medical Biotechnology provides a basic understanding of how living cells and cellular materials can be used for medical applications, particularly in the diagnosis and therapy of human diseases.

**Prerequisite:** BSCI 30140.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**BSCI 40466 MEDICAL AND VETERINARY ENTOMOLOGY 3 Credit Hours**

(Slashed with BSCI 50466 and BSCI 70466) This course covers the ecology of flies, lice, ticks, spiders, and other arthropods with a medical or veterinary importance. The course will consist of lectures and discussions on topics including evolutionary adaptations and lifecycles, allergic responses, disease transmission, forensic entomology, entomophobia, veterinary pests, and pest control techniques.

**Prerequisite:** Minimum C- grade in the following courses BSCI 10110 and BSCI 10120.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**BSCI 40515 ANIMAL BEHAVIOR 3 Credit Hours**

Explores the evolution of various animal behaviors, the functions they might serve, and the interplay among the social, ecological and physiological mechanisms that regulate their occurrence.

**Prerequisite:** Minimum C- grade in the following courses BSCI 10110 and BSCI 10120; and 6 additional hours of Biology courses.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**BSCI 40517 MEDICAL HISTOLOGY 3 Credit Hours**

(Slashed with BSCI 50517 and BSCI 70517) Study of the microscopic and submicroscopic structure of the human body in relation to function. Lecture two hours, lab three hours weekly.

**Prerequisite:** Minimum C- grade in the following courses BSCI 10110 and BSCI 10120; and BSCI 30140.

**Schedule Type:** Laboratory, Lecture

**Contact Hours:** 2 lecture, 3 lab

**Grade Mode:** Standard Letter

**BSCI 40519 HORMONES AND BEHAVIOR 3 Credit Hours**

(Slashed with BSCI 50519 and BSCI 70519) Current concepts of hormone and behavior interactions across species.

**Prerequisite:** Minimum C- grade in the following courses BSCI 10110 and BSCI 10120; and junior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**BSCI 40520 BEHAVIORAL EVOLUTION (WIC) 3 Credit Hours**  
(Cross-listed with BSCI 50520 and BSCI 70520) Examination of how behavior contributes to survival and reproduction in an ecological context. We consider how behavior may have evolved in a wide range of animals.

**Prerequisite:** BSCI 40163.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Writing Intensive Course

**BSCI 40525 WILDLIFE RESOURCES (ELR) 3 Credit Hours**  
(Slashed with BSCI 50525 and BSCI 70525) Ecological parameters are discussed relative to the preservation and management of wild animal populations. Aesthetic, economic and environmental values are discussed. Lecture three hours weekly.

**Prerequisite:** Minimum C- grade in BSCI 10110; plus 4 hours of Biology coursework.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Experiential Learning Requirement

**BSCI 40556 VERTEBRATE ZOOLOGY 4 Credit Hours**  
(Slashed with BSCI 50556 and BSCI 70556) Field approach to identification and natural history of all Ohio vertebrates except birds. Lecture three hours, lab and field three hours weekly.

**Prerequisite:** Minimum C- grade in the following courses BSCI 10110 and BSCI 10120; and 4 hours of Biology coursework.

**Schedule Type:** Laboratory, Lecture

**Contact Hours:** 3 lecture, 3 lab

**Grade Mode:** Standard Letter

**BSCI 40558 MAMMALOLOGY 3 Credit Hours**  
(Slashed with BSCI 50558 and BSCI 70558) This course will explore the biology of mammals. The course is organized into three sections. Section 1 will define what a mammal is and explore their origin, evolution, and modern distribution. Section 2 will survey modern mammal taxonomic diversity. Section 3 will explore the environmental physiology and various ecological roles that mammals play using specific case studies of mammalian ecological interactions in the world's major biomes.

**Prerequisite:** Minimum C- grade in BSCI 10110.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**BSCI 40560 HERPETOLOGY 3 Credit Hours**  
(Slashed with BSCI 50560 and BSCI 70560) This course will explore the biology of amphibians and reptiles. The course is organized into three sections. Section 1 we will explore their origin, evolution, and modern diversity of amphibians and reptiles (Yes, you will be required to memorize a whole mess of taxonomic names!). Section 2 will survey various aspects of the biology of amphibians and reptiles. Section 3 will explore the various aspects of the ecology of amphibians and reptiles, and examine a few critical topics in amphibian and reptile conservation.

**Prerequisite:** Minimum C- grade in BSCI 10110.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**BSCI 40581 ANIMAL PARASITOLOGY 4 Credit Hours**  
(Slashed with BSCI 50581) Morphology, physiology, life-histories, systematics and economic importance of parasites. Lecture two hours lab, six hours weekly.

**Prerequisite:** Minimum C- grade in the following courses BSCI 10110 and BSCI 10120; and 4 hours of Biology coursework.

**Schedule Type:** Laboratory, Lecture

**Contact Hours:** 2 lecture, 6 lab

**Grade Mode:** Standard Letter

**BSCI 40600 WRITING IN THE BIOLOGICAL SCIENCES (WIC) 1 Credit Hour**  
Writing-intensive course taken with a 3- or 4-credit-hour upper-division biology course. This course may be used to satisfy the writing-intensive course requirement with approval of major department.

**Prerequisite:** Biology major; and junior standing.

**Schedule Type:** Lecture

**Contact Hours:** 1 lecture

**Grade Mode:** Standard Letter

**Attributes:** Writing Intensive Course

**BSCI 41110 BIOPHOTONICS 3 Credit Hours**  
(Slashed with BSCI 51110; Cross-listed with CHEM 41010 and CHEM 41010 and PHY 41010 and PHY 51010). Interdisciplinary overview of the basics of biophotonics; application of biophotonic techniques to probe biological samples. Introduction to the foundations of optics and photonics and how the molecular structure of organic molecules translates into unique photonic properties and targeting in biological cells or tissue. Preparation of fluorescent materials, advanced spectroscopy and cell visualization using regular and confocal fluorescence microscopy.

**Prerequisite:** Special approval.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 1 lecture, 6 lab

**Grade Mode:** Standard Letter

**BSCI 41120 BIOLOGICAL LIGHT MICROSCOPY 3 Credit Hours**  
(Slashed with BSCI 51120 and BSCI 71120) Theoretical and practical information on the operation of optical microscopes, the application of transmission and fluorescence microscopy to biological specimens, and analysis of microscopic images.

**Prerequisite:** BSCI 30140.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**BSCI 50020 BIOLOGY OF AGING 3 Credit Hours**  
(Cross-listed with BSCI 40020) Current theories of aging; changes at the cellular level associated with aging in humans; course covers the normal aging process, dysfunction, and diseases of the elderly by body systems.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**BSCI 50104 INTRODUCTION TO BEEKEEPING 2 Credit Hours**  
Covers basic beekeeping practices and provides students with an in-depth understanding of the honey bee colony through participation in hands-on activities, observation and experimentation. This course may not be used to fulfill degree requirements in the MS or MA Biology programs.

**Prerequisite:** Graduate standing.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 1 lecture, 2 lab

**Grade Mode:** Standard Letter

**BSCI 50105 CAREER PATHWAYS IN BIOLOGY 1 Credit Hour**

This course orients students to graduate studies and to various career pathways in the biological sciences. Students will learn about a variety of possible careers, and prepare application materials needed to enter the workforce or apply to additional graduate programs.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 1 lecture

**Grade Mode:** Satisfactory/Unsatisfactory

**BSCI 50141 EXPERIMENTAL DESIGN AND ANALYSIS IN MOLECULAR BIOLOGY 3 Credit Hours**

(Slashed with BSCI 40141 and BSCI 70141) This course explores experimental design and analysis of biological data using tools of molecular biology. Students will study modern and classic techniques and learn the pros and cons of each technique as well as alternative approaches in the context of experiments. The course will consist of a combination of lectures, student presentations and class discussions based on recent primary literature, with particular focus on cell death and disease, including cancer.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**BSCI 50142 BIOENERGETICS 3 Credit Hours**

(Cross-listed with BSCI 40142 and BSCI 70142) Lecture and discussion of respiration and photosynthesis, their origin development and control in living systems. Concepts are introduced from fundamental principles. Lecture three hours weekly.

**Prerequisite:** BSCI 40430; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**BSCI 50143 EUKARYOTIC CELL BIOLOGY 3 Credit Hours**

(Cross-listed with BSCI 40143 and BSCI 70143) Current survey of the structure and function of eukaryotic cells, including recent advances in research technology. Lecture three hours weekly.

**Prerequisite:** BSCI 40430; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**BSCI 50146 DEVELOPMENTAL BIOLOGY 3 Credit Hours**

(Cross-listed with BSCI 40146 and BSCI 70146) Fundamental concepts and paradigms of development as exemplified by major model organisms. This course will examine our modern understanding of the molecular, cellular and genetic basis of developmental biology.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**BSCI 50147 DEVELOPMENTAL NEUROBIOLOGY 3 Credit Hours**

(Slashed with BSCI 40147 and BSCI 70147) Covers fundamental principles in developmental neurobiology, including molecular and cellular processes involved in the formation of the vertebrate central nervous system.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**BSCI 50148 PRINCIPLES OF INFECTIOUS DISEASE 3 Credit Hours**

(Slashed with BSCI 40148 and BSCI 70148) Basic principles of infectious disease, with emphasis on major human pathogens including protozoa, bacteria, and viruses. Topics include infection establishment, spread within the host, pathology, immunity, and host behavior.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**BSCI 50150 MOLECULAR MECHANISMS OF DISEASE: CANCER 3 Credit Hours**

(Cross-listed with BSCI 40150 and BSCI 70150) Explores the current understanding of molecular and cellular mechanisms of disease processes, including new technologies and modern strategies in the forefront of future biomedical research. Emphasis on a review of primary literature.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**BSCI 50151 MECHANISMS OF DISEASE: OBESITY AND RELATED METABOLIC DISEASES 3 Credit Hours**

(Slashed with BSCI 40151 and BSCI 70151) Addresses obesity from multiple angles, including health and disease process, underlying physiology and cell and molecular biology, and the role of behavior. Emphasis on a review of primary literature to discuss obesity causes, consequences and treatments.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**BSCI 50152 MOLECULAR MECHANISMS OF DISEASE: NEUROLOGICAL DISORDERS 3 Credit Hours**

(Slashed with BSCI 40152 and BSCI 70152) Major concepts and theoretical principles underlying neurological disorders.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**BSCI 50154 DIABETES AND CARDIOVASCULAR DISEASE 3 Credit Hours**

(Slashed with BSCI 40154 and BSCI 70154) This course covers physiological aspects of diabetes and cardiovascular disease, including associated pathologies and therapies.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**BSCI 50157 NEUROBIOLOGY OF DRUG ADDICTION 3 Credit Hours**

(Slashed with BSCI 40157 and BSCI 70157) Introduction to neural structures, circuitry, and chemistry underlying drug addiction, main categories of drugs of abuse, and how brain cells and circuits are modified in response to addictive drugs.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter



**BSCI 50158 MOLECULAR BIOLOGY 3 Credit Hours**

(Cross-listed with BSCI 40158 and BSCI 70158) Molecular genetics, DNA and RNA structure, chromosomes DNA replication, recombination, genetic transcription and translation, gene expression, current concepts and technologies.

**Prerequisite:** BSCI 30156; and Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**BSCI 50159 MOLECULAR BIOLOGY LABORATORY 3 Credit Hours**

(Cross-listed with BSCI 40159 and BSCI 70159) Experience in research methods for studying cellular and molecular processes in plant and animal systems.

**Prerequisite:** Graduate standing; and special approval from instructor.

**Schedule Type:** Laboratory

**Contact Hours:** 9 lab

**Grade Mode:** Standard Letter

**BSCI 50160 MARINE BIOLOGY 3 Credit Hours**

(Cross-listed with BSCI 40160 and BSCI 70160) Natural history and ecology of marine organisms, with emphasis on life in coastal habitats. Lecture three hours weekly.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**BSCI 50162 SOIL BIOLOGY 3 Credit Hours**

(Cross-listed with BSCI 40162 and BSCI 70162) The ecology and physiology of organisms that live in soil, including microbes, plants and animals. The physical and chemical aspects of soil are introduced to understand how organisms in soils impact nutrient cycles and ecosystem development.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**BSCI 50163 EVOLUTION 3 Credit Hours**

Discussion of the history of evolutionary theory, the evidence of evolution the evolutionary forces and the products of those forces.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**BSCI 50166 ENVIRONMENTAL SENSOR TECHNOLOGY 2 Credit Hours**

(Slashed with BSCI 40166 and BSCI 70166) Provides learning experiences in the field of environmental wireless sensor technology for performing both isolated and collaborative tasks. Students will use practical tools for WST design.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**BSCI 50170 STREAM BIOLOGY 3 Credit Hours**

(Slashed with BSCI 40170 and BSCI 70170) Identification, biology and ecology of stream-inhabiting organisms. Lecture two hours, laboratory three hours weekly.

**Prerequisite:** Graduate standing.

**Schedule Type:** Laboratory, Lecture

**Contact Hours:** 2 lecture, 1 lab

**Grade Mode:** Standard Letter

**BSCI 50174 IMMUNOLOGY 3 Credit Hours**

(Cross-listed with BSCI 40174 and BSCI 70174) Survey of the mammalian host responses to self and non-self with emphasis on the cellular and molecular mechanisms by which innate and acquired immunity result. Experimental design and data analyses are related to current methodologies used to study immunology. Lecture three hours weekly. Graduate standing.

**Prerequisite:** BSCI 30171 and CHEM 10060, 10061 and 10062.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**BSCI 50193 VARIABLE TITLE WORKSHOP IN BIOLOGICAL SCIENCES 1-6 Credit Hours**

(Repeatable for credit) Topics to be offered will meet specific needs in the biological sciences.

**Prerequisite:** Permission; and graduate standing.

**Schedule Type:** Workshop

**Contact Hours:** 1-6 other

**Grade Mode:** Satisfactory/Unsatisfactory

**BSCI 50195 SPECIAL TOPICS IN BIOLOGY 1-3 Credit Hours**

(Repeatable for credit) (Cross-listed with BSCI 40195 and BSCI 70195) Special topics in biology.

**Prerequisite:** Graduate standing; and special approval of instructor.

**Schedule Type:** Laboratory, Lecture

**Contact Hours:** 1-3 lecture, 2-6 lab

**Grade Mode:** Standard Letter-IP

**BSCI 50196 INDIVIDUAL INVESTIGATION 1-3 Credit Hours**

(Repeatable for credit) (Cross-listed with BSCI 40196 and BSCI 70196) Individual investigation in biology.

**Prerequisite:** Graduate standing; and special approval of instructor.

**Schedule Type:** Individual Investigation

**Contact Hours:** 1-3 other

**Grade Mode:** Standard Letter-IP

**BSCI 50220 BIOINFORMATICS 3 Credit Hours**

(Cross-listed with BTEC 40220) (Slashed with BSCI 40220 and BSCI 70220) Analysis of biological databases, including nucleic acid and protein sequence searching, multiple sequence alignment, protein classification, phylogenetic analysis, comparative genomics, proteomics, protein structure analysis.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter



**BSCI 50221 ECOLOGICAL GENOMICS 3 Credit Hours**

(Slashed with BSCI 40221 and BSCI 70221) Covers principles, concepts and techniques of ecological genomics, emphasizing the application of genomics to ecology and biogeochemistry and using genomic, metagenomic, and metatranscriptomic data.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**BSCI 50222 INVASION BIOLOGY 3 Credit Hours**

(Slashed with BSCI 40222 and BSCI 70222) This course will provide an overview of the science of biological invasions, focusing on the processes of introduction, establishment, and spread. It will discuss both invasions of species from other countries as well as encroachment of native species. The economic and ecological impacts of both plant and animal invasive species, as well as ways of combating the harmful effects of invasions will be discussed.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**BSCI 50242 SEMINAR ON MEDICAL PRACTICE FOR UNDERSERVED POPULATIONS 2 Credit Hours**

(Slashed with BSCI 40242). Course will introduce students to primary care and medical practice in rural and urban settings. Physicians and other healthcare practitioners from rural and urban settings will serve as invited speakers in this seminar. Preference for registration will be given to students following the MA-MD program.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Seminar

**Contact Hours:** 2 other

**Grade Mode:** Satisfactory/Unsatisfactory

**BSCI 50272 PLANT ANATOMY 4 Credit Hours**

(Cross-listed with BSCI 40272 and BSCI 70272) Development and structure of cells, tissues and tissue systems of seed plants. Both vegetative and reproductive structures of angiosperms will be emphasized. Lecture two hours, laboratory six hours weekly.

**Prerequisite:** Graduate standing.

**Schedule Type:** Laboratory, Lecture

**Contact Hours:** 3 lecture, 1 lab

**Grade Mode:** Standard Letter

**BSCI 50273 INTRODUCTION TO MYCOLOGY 3 Credit Hours**

(Slashed with BSCI 40273 and BSCI 70273) Introduces the key features defining the fungi. Topics include anatomical and morphological features, reproductive strategies, identification, and community interactions.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**BSCI 50274 PLANT COMMUNITIES OF OHIO 3 Credit Hours**

(Slashed with BSCI 40274 and BSCI 70274) Designed to familiarize students with the range of plant communities within Ohio by relating plant identification to biological, hydrological, geological, and climatic forces.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**BSCI 50275 PLANT SYSTEMATICS AND EVOLUTION 4 Credit Hours**

(Cross-listed with BSCI 40275 and BSCI 70275) Introduction to vascular plant diversity, with a focus on flowering plants. Students will learn characteristics of vascular plants and how to identify major plant groups. Lecture three hours weekly, lab two hours weekly.

**Prerequisite:** Graduate standing.

**Schedule Type:** Laboratory, Lecture

**Contact Hours:** 3 lecture, 1 lab

**Grade Mode:** Standard Letter

**BSCI 50292 INTERNSHIP IN PRIMARY CARE FOR THE UNDERSERVED 2 Credit Hours**

Students will be placed in internships in urban or rural healthcare settings. Preference will be given to students following the MA-MD program.

**Prerequisite:** Graduate Standing; and special approval.

**Schedule Type:** Practical Experience

**Contact Hours:** 6 other

**Grade Mode:** Standard Letter

**BSCI 50341 STEM CELL BIOLOGY: PRINCIPLES AND APPLICATIONS 3 Credit Hours**

(Slashed with BSCI 40341 and BSCI 70341) Examination of stem cells from various tissues, molecular mechanism of stem cell differentiation, and use of stem cells in clinical applications.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**BSCI 50360 ICHTHYOLOGY 4 Credit Hours**

(Cross-listed with BSCI 40360 and 70360) Basic biology, natural history, behavior and ecology of the fishes. Three hour lecture and three hour lab weekly.

**Prerequisite:** Graduate standing.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 3 lecture, 3 lab

**Grade Mode:** Standard Letter

**BSCI 50363 MICROBIAL ECOLOGY 3 Credit Hours**

(Cross-listed with BSCI 40363 and BSCI 70363) Microbial interactions with their biotic and abiotic environment; control of distribution and physiological activities; emphasis on bacteria in aquatic systems.

**Prerequisite:** BSCI 30171, 30360; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**BSCI 50364 LIMNOLOGY 3 Credit Hours**

(Cross-listed with BSCI 40364 and BSCI 70364) The study of the principles of aquatic ecology with emphasis on lakes and reservoirs.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**BSCI 50365 FIELD METHODS IN ORNITHOLOGY 3 Credit Hours**

(Slashed with BSCI 40365 and BSCI 70365) Habitat-based survey of Ohio birds. Field-based lectures and activities cover location, observation and identification of birds and their songs, as well as bird ecology and behavior.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**BSCI 50368 WETLAND ECOLOGY AND MANAGEMENT 4 Credit Hours**

(Cross-listed with BSCI 40368 and BSCI 70368) Lecture, laboratory and field study of the principles of wetland ecology including adaptations of the biota to environmental conditions, comparison among different wetland habitat types and habitat management. Lecture 3 hours lab 3 hours weekly.

**Prerequisite:** Graduate standing.

**Schedule Type:** Laboratory, Lecture

**Contact Hours:** 3 lecture, 1 lab

**Grade Mode:** Standard Letter

**BSCI 50370 ECOLOGICAL AND EVOLUTIONARY GENETICS 2 Credit Hours**

(Cross-listed with BSCI 70370) Genetic and genomic approaches to studying ecology and evolution in populations and communities.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**BSCI 50371 EVOLUTIONARY BIOLOGY 2 Credit Hours**

(Cross-listed with BSCI 70371) Theoretical and experimental approaches to studying evolution from genes to populations and communities.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**BSCI 50372 COMMUNITIES AND ECOSYSTEMS 2 Credit Hours**

(Cross-listed with BSCI 70372) Theory and experimental approaches to studying community and ecosystem ecology.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**BSCI 50373 POPULATION AND COMMUNITY ECOLOGY 2 Credit Hours**

(Cross-listed with BSCI 70373) Theory and experimental approaches to studying population and community ecology.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**BSCI 50374 CONSERVATION BIOLOGY 4 Credit Hours**

(Cross-listed with BSCI 40374 and BSCI 70374) Provides a critical analysis of the factors that threaten biological diversity in the biosphere and the consequences on biological processes and quality of life.

**Prerequisite:** BSCI 30360; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 4 lecture

**Grade Mode:** Standard Letter

**BSCI 50375 ENVIRONMENTAL BIOLOGY AND MANAGEMENT 4 Credit Hours**

(Cross-listed with BSCI 40375 and BSCI 70375) Introduction to current concepts in applied ecology and ecosystem management. Students will learn aspects of ecosystem management and restoration including: 1) how environmental factors affect organism survival and ecosystem structure, 2) how human impacts such as pollution, habitat fragmentation, introduction of invasive species affect ecosystems, and 3) the use of ecological principles and methods to restore and manage ecosystems.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 4 lecture

**Grade Mode:** Standard Letter

**BSCI 50376 TROPICAL FIELD BIOLOGY AND CONSERVATION 5 Credit Hours**

(Cross-listed with BSCI 40376 and BSCI 70376) Introduction to major issues in tropical ecology and conservation including the threats to the biological diversity of tropical ecosystems resulting from human activities. Students learn how to apply modern field-observation techniques to generate and test problem-solving hypotheses.

**Prerequisite:** Graduate standing.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 3 lecture, 6 lab

**Grade Mode:** Standard Letter

**BSCI 50380 BIOGEOCHEMISTRY 3 Credit Hours**

(Cross-listed with GEOL 40380 and GEOL 50380) (Slashed with BSCI 40380 and BSCI 70380) Biogeochemistry explores the chemical, physical, geological, and biological processes and reactions that shape the world around us, and provides tools for understanding human alterations to global systems. In this course, we will explore elemental cycles in diverse terrestrial and aquatic ecosystems, as well as assess how humans have drastically altered these elemental cycles on a global scale, and the implications of these changes for biological systems.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**BSCI 50431 NEUROENDOCRINOLOGY 3 Credit Hours**

(Slashed with BSCI 40431 and BSCI 70431) This course is an introduction to neuroendocrinology. There will be a focus on the major sources of neurohormones, the different classes of neurohormones, as well as how neurohormones are regulated, how they signal, and how they function. This course will integrate aspects of endocrinology, neuroscience, and physiology. After completion of this course students should have a basic understanding of the various neuroendocrine messengers and how they function.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**BSCI 50432 ENDOCRINOLOGY 3 Credit Hours**

(Cross-listed with BSCI 40432 and BSCI 70432) Principles of endocrine regulation of physiological and metabolic processes. Morphological and functional interrelationships between systems. Lecture three hours weekly.

**Prerequisite:** BSCI 40430; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**BSCI 50433 MAMMALIAN PHYSIOLOGY I 3 Credit Hours**

Physiology of the endocrine, nervous, and reproductive systems.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**BSCI 50434 MAMMALIAN PHYSIOLOGY II 3 Credit Hours**

Physiology of cardiovascular, renal, respiratory and digestive systems.

Lecture three hours.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**BSCI 50450 BIOLOGICAL CLOCKS 2 Credit Hours**

(Cross-listed with BSCI 40450 and BSCI 70450) Topics covered include the characteristics of biological clocks, their ecology, molecular biology, and neurobiology, the function and organization of sleep, and the medical implications of biological rhythmicity. Students enrolling at the graduate level should have some background in neurobiology and genetics.

**Prerequisite:** Graduate standing.

**Corequisite:** BSCI 50451.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**BSCI 50451 CURRENT TOPICS IN BIOLOGICAL CLOCKS RESEARCH 1 Credit Hour**

(Cross-listed with BSCI 70451) Discussion of current research literature in the area of research on biological clocks.

**Prerequisite:** Graduate standing.

**Corequisite:** BSCI 50450.

**Schedule Type:** Seminar

**Contact Hours:** 1 lecture

**Grade Mode:** Standard Letter-S/U

**BSCI 50460 ADVANCED HUMAN PHYSIOLOGY 3 Credit Hours**

(Slashed with BSCI 40460 and BSCI 70460) Major concepts and theoretical principles of human physiology, including nervous, endocrine, cardiovascular, respiratory, renal, gastrointestinal and reproductive systems.

**Prerequisite:** Graduate standing.

**Corequisite:** BSCI 50462.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**BSCI 50462 ADVANCED HUMAN PHYSIOLOGY: READINGS AND CASE STUDIES 1 Credit Hour**

(Slashed with BSCI 40462 and BSCI 70462) Designed to complement the lecture course in Advanced Human Physiology. Students will read primary literature in physiology and work independently and in groups to apply their knowledge to solving case studies.

**Prerequisite:** Graduate standing.

**Corequisite:** BSCI 50460.

**Schedule Type:** Lecture

**Contact Hours:** 1 lecture

**Grade Mode:** Standard Letter

**BSCI 50463 MEDICAL BIOTECHNOLOGY 3 Credit Hours**

(Slashed with BSCI 40463 and BSCI 70463) (Cross-listed with BTEC 40463) Medical Biotechnology provides a basic understanding of how living cells and cellular materials can be used for medical applications, particularly in the diagnosis and therapy of human diseases.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**BSCI 50466 MEDICAL AND VETERINARY ENTOMOLOGY 3 Credit Hours**

(Slashed with BSCI 40466 and BSCI 70466) This course covers the ecology of flies, lice, ticks, spiders, and other arthropods with a medical or veterinary importance. The course will consist of lectures and discussions on topics including evolutionary adaptations and lifecycles, allergic responses, disease transmission, forensic entomology, entomophobia, veterinary pests, and pest control techniques.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**BSCI 50515 ANIMAL BEHAVIOR 3 Credit Hours**

Explores the evolution of various animal behaviors, the functions they might serve, and the interplay among the social, ecological and physiological mechanisms that regulate their occurrence.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**BSCI 50517 MEDICAL HISTOLOGY 3 Credit Hours**

(Cross-listed with BSCI 40517 and BSCI 70517) Study of the microscopic and submicroscopic structure of the human body in relation to function. Lecture two hours, laboratory three hours weekly.

**Prerequisite:** Graduate standing.

**Schedule Type:** Laboratory, Lecture

**Contact Hours:** 2 lecture, 3 lab

**Grade Mode:** Standard Letter

**BSCI 50519 HORMONES AND BEHAVIOR 3 Credit Hours**

(Cross-listed with BSCI 40519 and BSCI 70519) Current concepts of hormone and behavior interactions across species.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**BSCI 50520 BEHAVIORAL EVOLUTION 3 Credit Hours**

(Cross-listed with BSCI 40520 and BSCI 70520) Examination of how behavior contributes to survival and reproduction in an ecological context. We consider how behavior may have evolved in a wide range of animals. Students enrolled at the graduate level in the course are expected to have had a course in evolution.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**BSCI 50525 WILDLIFE RESOURCES 3 Credit Hours**

(Cross-listed with BSCI 40525 and BSCI 70525) Ecological parameters are discussed relative to the preservation and management of wild animal populations. Aesthetic economic and environmental values are discussed. Lecture three hours weekly.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**BSCI 50556 VERTEBRATE ZOOLOGY 4 Credit Hours**

(Cross-listed with BSCI 40556 and BSCI 70556) Field approach to identification and natural history of all Ohio vertebrates except birds. Lecture three hours, laboratory and field three hours weekly.

**Prerequisite:** 4 hours of Biology; and graduate standing.

**Schedule Type:** Laboratory, Lecture

**Contact Hours:** 3 lecture, 3 lab

**Grade Mode:** Standard Letter

**BSCI 50558 MAMMALOGY 3 Credit Hours**

(Slashed with BSCI 40558 and BSCI 70558) This course will explore the biology of mammals. The course is organized into three sections. Section 1 will define what a mammal is and explore their origin, evolution, and modern distribution. Section 2 will survey modern mammal taxonomic diversity. Section 3 will explore the environmental physiology and various ecological roles that mammals play using specific case studies of mammalian ecological interactions in the world's major biomes.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**BSCI 50560 HERPETOLOGY 3 Credit Hours**

Slashed with BSCI 40560 and BSCI 70560) This course will explore the biology of amphibians and reptiles. The course is organized into three sections. Section 1 we will explore their origin, evolution, and modern diversity of amphibians and reptiles (Yes, you will be required to memorize a whole mess of taxonomic names!). Section 2 will survey various aspects of the biology of amphibians and reptiles. Section 3 will explore the various aspects of the ecology of amphibians and reptiles, and examine a few critical topics in amphibian and reptile conservation.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**BSCI 50581 ANIMAL PARASITOLOGY 4 Credit Hours**

Morphology, physiology, life-histories, systematics and economic importance of parasites. Lecture two hours, lab six hours weekly.

**Prerequisite:** Graduate standing.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 2 lecture, 6 other

**Grade Mode:** Standard Letter

**BSCI 51110 BIOPHOTONICS 3 Credit Hours**

(Slashed with BSCI 41110; Cross-listed with CHEM 41010 and CHEM 51010 and PHY 41010 and PHY 51010) Interdisciplinary overview of the basics of biophotonics and application of biophotonic techniques to probe biological samples. Introduction to the foundations of optics and photonics and how the molecular structure of organic molecules translates into unique photonic properties and targeting in biological cells or tissue. Preparation of fluorescent materials, advanced spectroscopy and cell visualization using regular and confocal fluorescence microscopy.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 1 lecture, 6 lab

**Grade Mode:** Standard Letter

**BSCI 51120 BIOLOGICAL LIGHT MICROSCOPY 3 Credit Hours**

(Slashed with BSCI 41120 and BSCI 71120) Theoretical and practical information on the operation of optical microscopes, the application of transmission and fluorescence microscopy to biological specimens, and analysis of microscopic images.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**BSCI 60080 EXPERIMENTAL METHODS IN BIOLOGY 2 Credit Hours**

The development of hypotheses, principles of experimental design and methods of gathering and evaluating data.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**BSCI 60104 BIOLOGICAL STATISTICS 4 Credit Hours**

(Slashed with BSCI 70104) Principles of experimental design and statistical analysis and how to choose and interpret statistical tests using biological data sets.

**Prerequisite:** Graduate standing.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 3 lecture, 2 lab

**Grade Mode:** Standard Letter

**BSCI 60144 SELECTED READINGS IN EUKARYOTIC CELL BIOLOGY 1 Credit Hour**

(Cross-listed with BSCI 70144) Directed readings in cell and molecular biology from the primary and review literature will be presented and discussed by the students. Corequisite: BSCI 50143

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 1 lecture

**Grade Mode:** Standard Letter



**BSCI 60145 MEDICAL GENOMICS 3 Credit Hours**

(Cross-listed with BSCI 80145) Explores the relationship and contribution of genetics and genomics to healthcare issues, including disease susceptibility and therapeutic efficacy. Up-to-date genomics concepts and their applications to health care and the challenges of personalized medicine including genetic analyses (e.g., linkage and estimating population risks), ethical issues in genetic testing and therapy, genetic basis of disease processes (e.g., neurological, cardiovascular and neoplastic diseases) and epigenetic processes (that may link the environment to the risk of chronic diseases) are covered. This course requires an understanding of genetics and physiology; students should contact the Department of Biological Sciences to determine if they have the requisite prior training.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**BSCI 60184 RESPONSIBLE CONDUCT IN RESEARCH AND TEACHING-BIOLOGICAL SCIENCES 2 Credit Hours**

(Slashed with BSCI 70184) Educates biology graduate students in central aspects of the responsible and effective conduct of research and teaching. Topics include appropriate conduct in the laboratory, effective presentations and issues related to proposal and manuscript preparation and review.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Satisfactory/Unsatisfactory

**BSCI 60191 SEMINAR IN BIOLOGY 1 Credit Hour**

(Repeatable for credit) Departmental seminar required of all graduate students.

**Prerequisite:** Graduate standing.

**Schedule Type:** Seminar

**Contact Hours:** 1 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**BSCI 60198 RESEARCH 1-15 Credit Hours**

(Repeatable for credit) Research or individual investigation for master's level graduate students. Credits earned may be applied toward degree requirements if department approves.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Research

**Contact Hours:** 1-15 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**BSCI 60199 THESIS I 2-6 Credit Hours**

Thesis students must register for a minimum of 6 hours, 2 to 6 hours in a single semester distributed over several semesters if desired.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Masters Thesis

**Contact Hours:** 2-6 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**BSCI 60299 THESIS II 2 Credit Hours**

Thesis students must continue registration each semester until all degree requirements are met.

**Prerequisite:** BSCI 60199; and graduate standing.

**Schedule Type:** Masters Thesis

**Contact Hours:** 2 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**BSCI 60391 SEMINAR IN ECOLOGY 1 Credit Hour**

(Repeatable for credit) (Cross-listed with BSCI 70391) Seminar on topics in animal and plant ecology. Credits earned may be applied to degree if department approves.

**Prerequisite:** Graduate standing; and special approval of instructor.

**Schedule Type:** Seminar

**Contact Hours:** 1 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**BSCI 60440 CELLULAR AND MOLECULAR SIGNALING 3 Credit Hours**

(Cross-listed with BSCI 70440 and BMS 60440 and BMS 70440)

The relevant and current topics associated with cellular signaling is covered. Topics include receptor pharmacology, classes and regulation, transcription factors, cell cycle signaling and cell-cell communication.

**Prerequisite:** BSCI 4/5/70143; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**BSCI 60462 NEUROBIOLOGY: SYSTEMS AND BEHAVIOR 4 Credit Hours**

(Slashed with BSCI 80462; Cross-listed with BMS 60462 and BMS 70462) Provides broad coverage of the parts of the central nervous systems and how they integrate sensory information, drive motor function and regulate behavior.

**Prerequisite:** BMS 60729 or BMS 70729; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 4 lecture

**Grade Mode:** Standard Letter

**BSCI 60491 SEMINAR IN PHYSIOLOGY 1 Credit Hour**

(Repeatable for credit) (Cross-listed with BSCI 70491) Credits may be applied toward degree if department approves.

**Prerequisite:** Graduate standing; and special approval of instructor.

**Schedule Type:** Seminar

**Contact Hours:** 1 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**BSCI 70104 BIOLOGICAL STATISTICS 4 Credit Hours**

(Slashed with BSCI 60104) Principles of experimental design and statistical analysis, and how to choose and interpret statistical tests using biological data sets.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 3 lecture, 2 lab

**Grade Mode:** Standard Letter

**BSCI 70141 EXPERIMENTAL DESIGN AND ANALYSIS IN MOLECULAR BIOLOGY 3 Credit Hours**

(Slashed with BSCI 40141 and BSCI 50141) This course explores experimental design and analysis of biological data using tools of molecular biology. Students will study modern and classic techniques and learn the pros and cons of each technique as well as alternative approaches in the context of experiments. The course will consist of a combination of lectures, student presentations and class discussions based on recent primary literature, with particular focus on cell death and disease, including cancer.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter



**BSCI 70142 BIOENERGETICS 3 Credit Hours**

(Cross-listed with BSCI 40142 and BSCI 50142) Lecture and discussion of respiration and photosynthesis, their origin development and control in living systems. Concepts are introduced from fundamental principles. Lecture three hours weekly.

**Prerequisite:** BSCI 40430; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**BSCI 70143 EUKARYOTIC CELL BIOLOGY 3 Credit Hours**

(Cross-listed with BSCI 40143 and BSCI 70143) Current survey of the structure and function of eukaryotic cells, including recent advances in research technology. Lecture three hours weekly.

**Prerequisite:** BSCI 40430; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**BSCI 70144 SELECTED READINGS IN EUKARYOTIC CELL BIOLOGY 1 Credit Hour**

(Cross-listed with BSCI 60144) Directed readings in cell and molecular biology from the primary and review literature will be presented and discussed by the students.

**Prerequisite:** Doctoral standing.

**Corequisite:** BSCI 70143.

**Schedule Type:** Lecture

**Contact Hours:** 1 lecture

**Grade Mode:** Standard Letter

**BSCI 70146 DEVELOPMENTAL BIOLOGY 3 Credit Hours**

(Cross-listed with BSCI 40146 and BSCI 50146) Fundamental concepts and paradigms of development as exemplified by major model organisms. This course will examine our modern understanding of the molecular, cellular and genetic basis of developmental biology.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**BSCI 70147 DEVELOPMENTAL NEUROBIOLOGY 3 Credit Hours**

(Slashed with BSCI 40147 and BSCI 50147) Covers fundamental principles in developmental neurobiology, including molecular and cellular processes involved in the formation of the vertebrate central nervous system.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**BSCI 70148 PRINCIPLES OF INFECTIOUS DISEASE 3 Credit Hours**

(Slashed with BSCI 40148 and BSCI 50148) Basic principles of infectious disease, with emphasis on major human pathogens including protozoa, bacteria, and viruses. Topics include infection establishment, spread within the host, pathology, immunity, and host behavior.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**BSCI 70150 MOLECULAR MECHANISMS OF DISEASE: CANCER 3 Credit Hours**

(Cross-listed with BSCI 40150 and BSCI 50150) Explores the current understanding of molecular and cellular mechanisms of disease processes, including new technologies and modern strategies in the forefront of future biomedical research. Emphasis on a review of primary literature.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**BSCI 70151 MECHANISMS OF DISEASE: OBESITY AND RELATED METABOLIC DISEASES 3 Credit Hours**

(Slashed with BSCI 40151 and BSCI 50151) Addresses obesity from multiple angles, including health and disease process, underlying physiology and cell and molecular biology, and the role of behavior. Emphasis on a review of primary literature to discuss obesity causes, consequences and treatments.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**BSCI 70152 MOLECULAR MECHANISMS OF DISEASE: NEUROLOGICAL DISORDERS 3 Credit Hours**

(Slashed with BSCI 40152 and BSCI 50152) Major concepts and theoretical principles underlying neurological disorders.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**BSCI 70154 DIABETES AND CARDIOVASCULAR DISEASE 3 Credit Hours**

(Slashed with BSCI 40154 and BSCI 50154) This course covers physiological aspects of diabetes and cardiovascular disease, including associated pathologies and therapies.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**BSCI 70157 NEUROBIOLOGY OF DRUG ADDICTION 3 Credit Hours**

(Slashed with BSCI 40157 and BSCI 50157) Introduction to neural structures, circuitry, and chemistry underlying drug addiction, main categories of drugs of abuse, and how brain cells and circuits are modified in response to addictive drugs.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**BSCI 70158 MOLECULAR BIOLOGY 3 Credit Hours**

(Slashed with BSCI 40158 and BSCI 50158) Molecular genetics, DNA and RNA structure, chromosomes, DNA replication, recombination, genetic transcription and translation, gene expression, current concepts and technologies.

**Prerequisite:** BSCI 30156; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**BSCI 70159 MOLECULAR BIOLOGY LABORATORY 3 Credit Hours**

(Cross-listed with BSCI 40159 and BSCI 50159) Experience in research methods for studying cellular and molecular processes in plant and animal systems.

**Prerequisite:** Doctoral standing; and special approval from instructor.

**Schedule Type:** Laboratory

**Contact Hours:** 9 lab

**Grade Mode:** Standard Letter

**BSCI 70160 MARINE BIOLOGY 3 Credit Hours**

(Cross-listed with BSCI 40160 and BSCI 50160) Natural history and ecology of marine organisms, with emphasis on life in coastal habitats. Lecture three hours weekly.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**BSCI 70162 SOIL BIOLOGY 3 Credit Hours**

(Cross-listed with BSCI 40162 and BSCI 50162) The ecology and physiology of organisms that live in soil, including microbes, plants and animals. The physical and chemical aspects of soil are introduced to understand how organisms in soils impact nutrient cycles and ecosystem development.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**BSCI 70163 EVOLUTION 3 Credit Hours**

(Cross-listed with BSCI 40163 and BSCI 50163) Discussion of the history of evolutionary theory, the evidence of evolution, the evolutionary forces and the products of those forces. Doctoral standing.

**Prerequisite:** BSCI 30156 plus 4 hours of biology.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**BSCI 70166 ENVIRONMENTAL SENSOR TECHNOLOGY 2 Credit Hours**

(Slashed with BSCI 40166 and BSCI 50166) Provides learning experiences in the field of environmental wireless sensor technology for performing both isolated and collaborative tasks. Students will use practical tools for WST design.

**Prerequisite:** Doctoral standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**BSCI 70170 STREAM BIOLOGY 3 Credit Hours**

(Cross-listed with BSCI 40170 and BSCI 50170) Identification, biology and ecology of stream-inhabiting organisms. Lecture two, laboratory three hours weekly.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Laboratory, Lecture

**Contact Hours:** 2 lecture, 1 lab

**Grade Mode:** Standard Letter

**BSCI 70174 IMMUNOLOGY 3 Credit Hours**

(Cross-listed with BSCI 40174 and BSCI 50174) Survey of the mammalian host responses to self and non-self with emphasis on the cellular and molecular mechanisms by which innate and acquired immunity result. Experimental design and data analyses are related to current methodologies used to study immunology. Lecture three hours weekly. Doctoral standing.

**Prerequisite:** BSCI 30171 and CHEM 10060, 10061 and 10062.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**BSCI 70184 RESPONSIBLE CONDUCT IN RESEARCH AND TEACHING-BIOLOGICAL SCIENCES 2 Credit Hours**

(Slashed with BSCI 60184) Educates biology graduate students in central aspects of the responsible and effective conduct of research and teaching. Topics include appropriate conduct in the laboratory, effective presentations and issues related to proposal and manuscript preparation and review.

**Prerequisite:** Doctoral standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Satisfactory/Unsatisfactory

**BSCI 70191 SEMINAR IN BIOLOGY 1 Credit Hour**

(Repeatable for credit) Departmental seminar required of all graduate students.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Seminar

**Contact Hours:** 1 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**BSCI 70193 VARIABLE TITLE WORKSHOP IN BIOLOGICAL SCIENCES 1-6 Credit Hours**

(Repeatable for credit) Topics to be offered will meet specific needs in the biological sciences.

**Prerequisite:** Doctoral standing; and special approval.

**Schedule Type:** Workshop

**Contact Hours:** 1-6 other

**Grade Mode:** Satisfactory/Unsatisfactory

**BSCI 70195 SPECIAL TOPICS IN BIOLOGY 1-3 Credit Hours**

(Repeatable for credit) (Cross-listed with BSCI 40195 and BSCI 50195)

**Prerequisite:** Doctoral standing; and special approval of instructor.

**Schedule Type:** Laboratory, Lecture

**Contact Hours:** 1-3 lecture, 2-6 lab

**Grade Mode:** Standard Letter-IP

**BSCI 70196 INDIVIDUAL INVESTIGATION 1-3 Credit Hours**

(Repeatable for credit) (Cross-listed with BSCI 40196 and BSCI 50196)

**Prerequisite:** Doctoral standing; and special approval of instructor.

**Schedule Type:** Individual Investigation

**Contact Hours:** 1-3 other

**Grade Mode:** Standard Letter-IP

**BSCI 70220 BIOINFORMATICS 3 Credit Hours**

(Cross-listed with BTEC 40220) (Slashed with BSCI 40220 and BSCI 50220) Analysis of biological databases, including nucleic acid and protein sequence searching, multiple sequence alignment, protein classification, phylogenetic analysis, comparative genomics, proteomics, protein structure analysis.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**BSCI 70221 ECOLOGICAL GENOMICS 3 Credit Hours**

(Slashed with BSCI 40221 and BSCI 50221) Covers principles, concepts and techniques of ecological genomics, emphasizing the application of genomics to ecology and biogeochemistry and using genomic, metagenomic and metatranscriptomic data.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**BSCI 70222 INVASION BIOLOGY 3 Credit Hours**

(Slashed with BSCI 40222 and BSCI 50222) This course will provide an overview of the science of biological invasions, focusing on the processes of introduction, establishment, and spread. It will discuss both invasions of species from other countries as well as encroachment of native species. The economic and ecological impacts of both plant and animal invasive species, as well as ways of combating the harmful effects of invasions will be discussed.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**BSCI 70272 PLANT ANATOMY 4 Credit Hours**

(Cross-listed with BSCI 40272 and BSCI 50272) Development and structure of cells, tissues and tissue systems of seed plants. Both vegetative and reproductive structures of angiosperms will be emphasized. Lecture two hours, laboratory six hours weekly.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Laboratory, Lecture

**Contact Hours:** 3 lecture, 0 lab

**Grade Mode:** Standard Letter

**BSCI 70273 INTRODUCTION TO MYCOLOGY 3 Credit Hours**

(Slashed with BSCI 40273 and BSCI 50273) Introduces the key features defining the fungi. Topics include anatomical and morphological features, reproductive strategies, identification, and community interactions.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**BSCI 70274 PLANT COMMUNITIES OF OHIO 3 Credit Hours**

(Slashed with BSCI 40274 and BSCI 50274) Designed to familiarize students with the range of plant communities within Ohio by relating plant identification to biological, hydrological, geological, and climatic forces.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**BSCI 70275 PLANT SYSTEMATICS AND EVOLUTION 4 Credit Hours**

(Cross-listed with BSCI 40275 and BSCI 50275) Introduction to vascular plant diversity, with a focus on flowering plants. Students will learn characteristics of vascular plants and how to identify major plant groups. Lecture three hours weekly, lab two hours weekly.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Laboratory, Lecture

**Contact Hours:** 3 lecture, 1 lab

**Grade Mode:** Standard Letter

**BSCI 70341 STEM CELL BIOLOGY: PRINCIPLES AND APPLICATIONS 3 Credit Hours**

(Slashed with BSCI 40341 and BSCI 50341) Examination of stem cells from various tissues, molecular mechanism of stem cell differentiation, and use of stem cells in clinical applications.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**BSCI 70360 ICHTHYOLOGY 4 Credit Hours**

(Cross-listed with BSCI 40360 and BSCI 50360) Basic biology, natural history, behavior and ecology of the fishes. Three hour lecture and three hour lab weekly.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 3 lecture, 3 lab

**Grade Mode:** Standard Letter

**BSCI 70363 MICROBIAL ECOLOGY 3 Credit Hours**

(Cross-listed with BSCI 40363 and BSCI 50363) Microbial interactions with their biotic and abiotic environment; control of distribution and physiological activities; emphasis on bacteria in aquatic systems.

**Prerequisite:** BSCI 30171, 30360; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**BSCI 70364 LIMNOLOGY 3 Credit Hours**

(Cross-listed with BSCI 40364 and BSCI 50364) The study of the principles of aquatic ecology with emphasis on lakes and reservoirs.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**BSCI 70365 FIELD METHODS IN ORNITHOLOGY 3 Credit Hours**

(Slashed with BSCI 40365 and BSCI 50365) Habitat-based survey of Ohio birds. Field-based lectures and activities cover location, observation and identification of birds and their songs, as well as bird ecology and behavior.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**BSCI 70368 WETLAND ECOLOGY AND MANAGEMENT 4 Credit Hours**

(Cross-listed with BSCI 40368 and BSCI 50368) Lecture, laboratory and field study of the principles of wetland ecology including adaptations of the biota to environmental conditions, comparison among different wetland habitat types and habitat management. Lecture 3 hours, lab 3 hours weekly.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Laboratory, Lecture

**Contact Hours:** 3 lecture, 1 lab

**Grade Mode:** Standard Letter

**BSCI 70370 ECOLOGICAL AND EVOLUTIONARY GENETICS 2 Credit Hours**

(Cross-listed with BSCI 50370) Genetic and genomic approaches to studying ecology and evolution in populations and communities.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**BSCI 70371 EVOLUTIONARY BIOLOGY 2 Credit Hours**

(Cross-listed with BSCI 50371) Theoretical and experimental approaches to studying evolution from genes to populations and communities.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**BSCI 70372 COMMUNITIES AND ECOSYSTEMS 2 Credit Hours**

(Cross-listed with BSCI 50372) Theory and experimental approaches to studying community and ecosystem ecology.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**BSCI 70373 POPULATION AND COMMUNITY ECOLOGY 2 Credit Hours**

(Cross-listed with BSCI 50373) Theory and experimental approaches to studying population and community ecology.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**BSCI 70374 CONSERVATION BIOLOGY 4 Credit Hours**

(Cross-listed with BSCI 40374 and BSCI 50374) Provides a critical analysis of the factors that threaten biological diversity in the biosphere and the consequences on biological processes and quality of life.

**Prerequisite:** BSCI 30360; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 4 lecture

**Grade Mode:** Standard Letter

**BSCI 70375 ENVIRONMENTAL BIOLOGY AND MANAGEMENT 4 Credit Hours**

(Cross-listed with BSCI 40375 and BSCI 50375) Introduction to current concepts in applied ecology and ecosystem management. Students will learn aspects of ecosystem management and restoration including: 1) how environmental factors affect organism survival and ecosystem structure, 2) how human impacts such as pollution, habitat fragmentation, introduction of invasive species affect ecosystems, and 3) the use of ecological principles and methods to restore and manage ecosystems.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 4 lecture

**Grade Mode:** Standard Letter

**BSCI 70376 TROPICAL FIELD BIOLOGY AND CONSERVATION 5 Credit Hours**

(Cross-listed with BSCI 40376 and BSCI 50376) Introduction to major issues in tropical ecology and conservation including the threats to the biological diversity of tropical ecosystems resulting from human activities. Students learn how to apply modern field-observation techniques to generate and test problem-solving hypotheses.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 3 lecture, 6 lab

**Grade Mode:** Standard Letter

**BSCI 70380 BIOGEOCHEMISTRY 3 Credit Hours**

(Slashed with BSCI 40380 and BSCI 50380) Biogeochemistry explores the chemical, physical, geological, and biological processes and reactions that shape the world around us, and provides tools for understanding human alterations to global systems. In this course, we will explore elemental cycles in diverse terrestrial and aquatic ecosystems, as well as assess how humans have drastically altered these elemental cycles on a global scale, and the implications of these changes for biological systems.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**BSCI 70391 SEMINAR IN ECOLOGY 1 Credit Hour**

(Repeatable for credit) (Cross-listed with BSCI 60391) Seminar on topics in animal and plant ecology. Credits earned may be applied to degree if department approves.

**Prerequisite:** Doctoral standing; and special approval of instructor.

**Schedule Type:** Seminar

**Contact Hours:** 1 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**BSCI 70431 NEUROENDOCRINOLOGY 3 Credit Hours**

(Slashed with BSCI 40431 and BSCI 50431) This course is an introduction to neuroendocrinology. There will be a focus on the major sources of neurohormones, the different classes of neurohormones, as well as how neurohormones are regulated, how they signal, and how they function. This course will integrate aspects of endocrinology, neuroscience, and physiology. After completion of this course students should have a basic understanding of the various neuroendocrine messengers and how they function.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**BSCI 70432 ENDOCRINOLOGY 3 Credit Hours**

(Cross-listed with BSCI 40432 and BSCI 40432) Principles of endocrine regulation of physiological and metabolic processes. Morphological and functional interrelationships between systems. Lecture three hours weekly.

**Prerequisite:** BSCI 40430; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**BSCI 70433 MAMMALIAN PHYSIOLOGY I 3 Credit Hours**

Physiology of the endocrine, nervous, and reproductive systems.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter



**BSCI 70434 MAMMALIAN PHYSIOLOGY II 3 Credit Hours**

Physiology of cardiovascular, renal, respiratory and digestive systems. Lecture three hours.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**BSCI 70440 CELLULAR AND MOLECULAR SIGNALING 3 Credit Hours**

(Slashed with BSCI 60440) (Crosslisted with BMS 60440 and BMS 70440) The relevant and current topics associated with cellular signaling is covered. Topics include receptor pharmacology, classes and regulation, transcription factors, cell cycle signaling and cell-cell communication.

**Prerequisite:** BSCI 70143; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**BSCI 70450 BIOLOGICAL CLOCKS 2 Credit Hours**

(Cross-listed with BSCI 40450 and BSCI 50450) Topics covered include the characteristics of biological clocks, their ecology, molecular biology, and neurobiology, the function and organization of sleep, and the medical implications of biological rhythmicity. Students enrolling at the graduate level should have some background in neurobiology and genetics.

**Prerequisite:** Doctoral standing.

**Corequisite:** BSCI 70451.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**BSCI 70451 CURRENT TOPICS IN BIOLOGICAL CLOCKS RESEARCH 1 Credit Hour**

(Cross-listed with BSCI 50451) Discussion of current research literature in the area of research on biological clocks.

**Prerequisite:** Doctoral standing.

**Corequisite:** BSCI 70450.

**Schedule Type:** Seminar

**Contact Hours:** 1 lecture

**Grade Mode:** Standard Letter-S/U

**BSCI 70460 ADVANCED HUMAN PHYSIOLOGY 3 Credit Hours**

(Slashed with BSCI 40460 and BSCI 50460) Major concepts and theoretical principles of human physiology, including nervous, endocrine, cardiovascular, respiratory, renal, gastrointestinal and reproductive systems.

**Prerequisite:** Doctoral standing.

**Corequisite:** BSCI 70462.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**BSCI 70462 ADVANCED HUMAN PHYSIOLOGY: READINGS AND CASE STUDIES 1 Credit Hour**

(Slashed with BSCI 40462 and BSCI 50462) Designed to complement the lecture course in Advanced Human Physiology. Students will read primary literature in physiology and work independently and in groups to apply their knowledge to solving case studies.

**Prerequisite:** Doctoral standing.

**Corequisite:** BSCI 70460.

**Schedule Type:** Lecture

**Contact Hours:** 1 lecture

**Grade Mode:** Standard Letter

**BSCI 70463 MEDICAL BIOTECHNOLOGY 3 Credit Hours**

(Slashed with BSCI 40463 and BSCI 50463) (Cross-listed with BTEC 40463) Medical Biotechnology provides a basic understanding of how living cells and cellular materials can be used for medical applications, particularly in the diagnosis and therapy of human diseases.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**BSCI 70466 MEDICAL AND VETERINARY ENTOMOLOGY 3 Credit Hours**

(Slashed with BSCI 40466 and BSCI 50466) This course covers the ecology of flies, lice, ticks, spiders, and other arthropods with a medical or veterinary importance. The course will consist of lectures and discussions on topics including evolutionary adaptations and lifecycles, allergic responses, disease transmission, forensic entomology, entomophobia, veterinary pests, and pest control techniques.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**BSCI 70491 SEMINAR IN PHYSIOLOGY 1 Credit Hour**

(Repeatable for credit) (Cross-listed with BSCI 60491) Credits may be applied toward degree if department approves.

**Prerequisite:** Doctoral standing; and special approval of instructor.

**Schedule Type:** Seminar

**Contact Hours:** 1 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**BSCI 70515 ANIMAL BEHAVIOR 3 Credit Hours**

Explores the evolution of various animal behaviors, the functions they might serve, and the interplay among the social, ecological and physiological mechanisms that regulate their occurrence.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**BSCI 70517 MEDICAL HISTOLOGY 3 Credit Hours**

(Slashed with BSCI 40517 and BSCI 50517) Study of the microscopic and submicroscopic structure of the mammalian body in relation to function. Lecture two hours laboratory three hours weekly.

**Prerequisite:** 4 hours of biology; and doctoral standing.

**Schedule Type:** Laboratory, Lecture

**Contact Hours:** 2 lecture, 3 lab

**Grade Mode:** Standard Letter

**BSCI 70519 HORMONES AND BEHAVIOR 3 Credit Hours**

(Cross-listed with BSCI 40519 and BSCI 70519) Current concepts of hormone and behavior interactions across species.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter



**BSCI 70520 BEHAVIORAL EVOLUTION 3 Credit Hours**

(Cross-listed with BSCI 40520 and BSCI 50520) Examination of how behavior contributes to survival and reproduction in an ecological context. We consider how behavior may have evolved in a wide range of animals. Students enrolled at the graduate level will be expected to have had a course in evolution.

**Prerequisite:** Doctoral standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**BSCI 70525 WILDLIFE RESOURCES 3 Credit Hours**

(Cross-listed with BSCI 40525 and BSCI 50525) Ecological parameters are discussed relative to the preservation and management of wild animal populations. Aesthetic economic and environmental values are discussed. Lecture three hours weekly.

**Prerequisite:** 4 hours of Biology; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**BSCI 70556 VERTEBRATE ZOOLOGY 4 Credit Hours**

(Cross-listed with BSCI 40556 and BSCI 50556) Field approach to identification and natural history of all Ohio vertebrates except birds. Lecture three hours laboratory and field three hours weekly.

**Prerequisite:** 4 hours of Biology; and doctoral standing.

**Schedule Type:** Laboratory, Lecture

**Contact Hours:** 3 lecture, 3 lab

**Grade Mode:** Standard Letter

**BSCI 70558 MAMMALOLOGY 3 Credit Hours**

(Slashed with BSCI 40558 and BSCI 50558) This course will explore the biology of mammals. The course is organized into three sections. Section 1 will define what a mammal is and explore their origin, evolution, and modern distribution. Section 2 will survey modern mammal taxonomic diversity. Section 3 will explore the environmental physiology and various ecological roles that mammals play using specific case studies of mammalian ecological interactions in the world's major biomes.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**BSCI 70560 HERPETOLOGY 3 Credit Hours**

(Slashed with BSCI 40560 and BSCI 50560) This course will explore the biology of amphibians and reptiles. The course is organized into three sections. Section 1 we will explore their origin, evolution, and modern diversity of amphibians and reptiles (Yes, you will be required to memorize a whole mess of taxonomic names!). Section 2 will survey various aspects of the biology of amphibians and reptiles. Section 3 will explore the various aspects of the ecology of amphibians and reptiles, and examine a few critical topics in amphibian and reptile conservation.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**BSCI 71120 BIOLOGICAL LIGHT MICROSCOPY 3 Credit Hours**

(Slashed with BSCI 41120 and BSCI 51120) Theoretical and practical information on the operation of optical microscopes, the application of transmission and fluorescence microscopy to biological specimens, and analysis of microscopic images.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**BSCI 80145 MEDICAL GENOMICS 3 Credit Hours**

(Cross-listed with BSCI 60145) Explores the relationship and contribution of genetics and genomics to healthcare issues, including disease susceptibility and therapeutic efficacy. Up-to-date genomics concepts and their applications to health care and the challenges of personalized medicine including genetic analyses (e.g., linkage and estimating population risks), ethical issues in genetic testing and therapy, genetic basis of disease processes (e.g., neurological, cardiovascular and neoplastic diseases) and epigenetic processes (that may link the environment to the risk of chronic diseases) are covered. This course requires an understanding of genetics and physiology; students should contact the Department of Biological Sciences to determine if they have the requisite prior training.

**Prerequisite:** Doctoral standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**BSCI 80198 RESEARCH 1-15 Credit Hours**

(Repeatable for credit) Research or individual investigation for doctoral students who have not yet passed candidacy examination.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Research

**Contact Hours:** 1-15 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**BSCI 80199 DISSERTATION I 15 Credit Hours**

(Repeatable for credit) Doctoral dissertation, for which registration in at least two semesters is required first of which will be semester in which dissertation work is begun and continuing until the completion of 30 hours.

**Prerequisite:** Special approval; and doctoral standing.

**Schedule Type:** Dissertation

**Contact Hours:** 15 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**BSCI 80299 DISSERTATION II 15 Credit Hours**

(Repeatable for credit) Continuing registration of doctoral students who have completed the initial 30 hours of dissertation and continuing until all degree requirements are met.

**Prerequisite:** BSCI 80199; and doctoral standing.

**Schedule Type:** Dissertation

**Contact Hours:** 15 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**BSCI 80462 NEUROBIOLOGY: SYSTEMS AND BEHAVIOR 4 Credit Hours**

(Slashed with BSCI 60462; Cross-listed with BMS 60462 and BMS 70462)  
Provides broad coverage of the parts of the central nervous systems and how they integrate sensory information, drive motor function and regulate behavior.

**Prerequisite:** BMS 60729 or BMS 70729; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 4 lecture

**Grade Mode:** Standard Letter

**Clinical Laboratory Sciences (CLS)****CLS 49010 CLINICAL MICROBIOLOGY: THEORY 4 Credit Hours**

Theoretical consideration of laboratory isolation, cultivation, identification and characterization of pathogenic microorganisms.

**Prerequisite:** Medical technology major.

**Schedule Type:** Clinical Laboratory

**Contact Hours:** 8 other

**Grade Mode:** Standard Letter-IP

**CLS 49011 CLINICAL MICROBIOLOGY: APPLICATIONS 4 Credit Hours**

Applied and practical considerations of theoretical aspects of laboratory isolation, cultivation, identification and characterization of pathogenic microorganisms.

**Prerequisite:** Medical Technology major.

**Schedule Type:** Clinical Laboratory

**Contact Hours:** 8 other

**Grade Mode:** Standard Letter-IP

**CLS 49012 CLINICAL IMMUNOLOGY: THEORY 1 Credit Hour**

Theoretical considerations of laboratory practices involving quantitation and detection of antigens and antibodies and the significance of these findings in pathological states.

**Prerequisite:** Medical technology major.

**Schedule Type:** Clinical Laboratory

**Contact Hours:** 2 other

**Grade Mode:** Standard Letter-IP

**CLS 49013 CLINICAL IMMUNOLOGY: APPLICATIONS 1 Credit Hour**

Applied and practical consideration of laboratory practices in immunology and serology relating to diagnosis of disease states.

**Prerequisite:** Medical technology major.

**Schedule Type:** Clinical Laboratory

**Contact Hours:** 2 other

**Grade Mode:** Standard Letter-IP

**CLS 49014 CLINICAL MYCOLOGY: THEORY AND APPLICATIONS 1 Credit Hour**

Theoretical, applied and practical consideration of the isolation, identification and characterization of pathogenic fungi and their relation to human disease states.

**Prerequisite:** Medical technology major.

**Schedule Type:** Clinical Laboratory

**Contact Hours:** 2 other

**Grade Mode:** Standard Letter-IP

**CLS 49015 CLINICAL PARASITOLOGY: THEORY AND APPLICATIONS 1 Credit Hour**

Theoretical, applied and practical considerations of the isolation identification and characterization of human parasites and their relations to pathologic conditions.

**Prerequisite:** Medical technology major.

**Schedule Type:** Clinical Laboratory

**Contact Hours:** 2 other

**Grade Mode:** Standard Letter-IP

**CLS 49020 CLINICAL CHEMISTRY: THEORY 4 Credit Hours**

Theoretical considerations of the principles of clinical chemistry relating to the identification and quantitation of biologically important substances in blood and other body fluids.

**Prerequisite:** Medical technology major.

**Schedule Type:** Clinical Laboratory

**Contact Hours:** 8 other

**Grade Mode:** Standard Letter-IP

**CLS 49021 CLINICAL CHEMISTRY: APPLICATIONS 3 Credit Hours**

Applied and practical considerations of clinical chemistry principles relating to significant changes in body fluids as the result of pathologic conditions.

**Prerequisite:** Medical technology major.

**Schedule Type:** Clinical Laboratory

**Contact Hours:** 6 other

**Grade Mode:** Standard Letter-IP

**CLS 49022 URINALYSIS: THEORY 1 Credit Hour**

Theoretical considerations of the physiological activities of the renal system together with laboratory principles of analysis of urine and other body fluids.

**Prerequisite:** Medical technology major.

**Schedule Type:** Clinical Laboratory

**Contact Hours:** 2 other

**Grade Mode:** Standard Letter-IP

**CLS 49023 URINALYSIS: APPLICATIONS 1 Credit Hour**

Applied and practical considerations of laboratory practices in urine and other body fluid analysis as aids in diagnosis of disease.

**Prerequisite:** Medical technology major.

**Schedule Type:** Clinical Laboratory

**Contact Hours:** 2 other

**Grade Mode:** Standard Letter-IP

**CLS 49030 IMMUNOHEMATOLOGY: THEORY 2 Credit Hours**

Theoretical consideration of laboratory procedures involved in blood grouping and typing; identification of blood group antigens and antibodies collection and preparation of blood for transfusion.

**Prerequisite:** Medical technology major.

**Schedule Type:** Clinical Laboratory

**Contact Hours:** 4 other

**Grade Mode:** Standard Letter-IP

**CLS 49031 IMMUNOHEMATOLOGY: APPLICATIONS 2 Credit Hours**

Applied and practical consideration of laboratory methods for the administration of blood and its components.

**Prerequisite:** Medical technology major.

**Schedule Type:** Clinical Laboratory

**Contact Hours:** 4 other

**Grade Mode:** Standard Letter-IP

**CLS 49032 COAGULATION: THEORY AND APPLICATIONS 1 Credit Hour**

Theoretical consideration of the coagulation mechanism and its relation to pathological states; identification of abnormalities and deficiencies.

**Prerequisite:** Medical technology major.

**Schedule Type:** Clinical Laboratory

**Contact Hours:** 2 other

**Grade Mode:** Standard Letter-IP

**CLS 49033 CLINICAL HEMATOLOGY: THEORY 2 Credit Hours**

Theoretical considerations of the development of formed elements; identification of marrow and blood cells; study of normal and abnormal cellular blood components.

**Prerequisite:** Medical technology major.

**Schedule Type:** Clinical Laboratory

**Contact Hours:** 4 other

**Grade Mode:** Standard Letter-IP

**CLS 49034 CLINICAL HEMATOLOGY: APPLICATIONS 2 Credit Hours**

Applied and practical consideration of laboratory methods and procedures in identification and enumeration of normal and abnormal formed elements of blood.

**Prerequisite:** Medical technology major.

**Schedule Type:** Clinical Laboratory

**Contact Hours:** 4 other

**Grade Mode:** Standard Letter-IP

**CLS 49040 TOPICS IN LABORATORY MANAGEMENT 1 Credit Hour**

Consideration of topics relating to safety, education, personnel, budgeting, scheduling and medical legal problems. Repeatable for a total of 4 hours.

**Prerequisite:** Medical technology major.

**Schedule Type:** Clinical Laboratory

**Contact Hours:** 2 other

**Grade Mode:** Standard Letter-IP

**CLS 49095 SPECIAL TOPICS IN MEDICAL TECHNOLOGY 1-4 Credit Hours**

(Repeatable for a maximum of 4 credit hours) Topical consideration of special techniques encountered in nuclear medicine, cytology, cytogenetics, virology, toxicology and special instrumentation.

**Prerequisite:** Medical technology major.

**Schedule Type:** Clinical Laboratory

**Contact Hours:** 2-8 other

**Grade Mode:** Standard Letter-IP

## Department of Chemistry and Biochemistry

### Chemistry (CHEM)

**CHEM 00020 INTRODUCTION TO CHEMISTRY 2 Credit Hours**

Problem-based introduction to the fundamentals of chemistry including significant figures, unit conversions, measurement, structure of matter, energy, composition of matter, atomic structure, the periodic table, introduction to bonding, and the formulas and names of both ionic and covalent compounds. Course does not count toward graduation.

**Prerequisite:** Math ACT score of 18; or ALEKS math assessment score of 45; or minimum C grade in any MATH course.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**CHEM 10030 CHEMISTRY IN OUR WORLD (KBS) 3 Credit Hours**

A course for non-science majors that utilizes environmental and consumer topics to introduce chemical principles and develop critical-thinking skills.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Kent Core Basic Sciences, Transfer Module Natural Sciences

**CHEM 10031 CHEMISTRY IN OUR WORLD LABORATORY (KBS) (KLAB) 1 Credit Hour**

Discovery-based experiments to introduce chemical principles and develop critical-thinking skills. A course for non-science majors; includes chemistry that is related to environmental and consumer issues.

**Pre/corequisite:** CHEM 10030.

**Schedule Type:** Laboratory

**Contact Hours:** 3 lab

**Grade Mode:** Standard Letter

**Attributes:** Kent Core Basic Sciences, Kent Core Basic Sciences Lab, Transfer Module Natural Sciences

**CHEM 10050 FUNDAMENTALS OF CHEMISTRY (KBS) 3 Credit Hours**

Basic concepts of chemistry (including atomic structure, chemical bonding and reactions) necessary for courses in elementary organic chemistry and physiological chemistry. Students may only receive credit toward graduation for one of the following courses: CHEM 10050; or CHEM 10060 and 10061; or CHEM 10970 and 10971.

**Prerequisite:** Minimum 16 ACT math score or MATH 10675 or MATH 11009 or MATH 11010 or MATH 11012 or MATH 12002 or MATH 12011 or MATH 12021.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Kent Core Basic Sciences, Transfer Module Natural Sciences

**CHEM 10052 INTRODUCTION TO ORGANIC CHEMISTRY (KBS) 2 Credit Hours**

Chemistry of organic and biological molecules necessary for the study of physiological chemistry. Students may only receive credit toward graduation for one of the following courses: CHEM 10052; or CHEM 20481 and 20482; or CHEM 30481 and 30482.

**Prerequisite:** CHEM 10050 or 10060.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**Attributes:** Kent Core Basic Sciences, Transfer Module Natural Sciences

**CHEM 10053 INORGANIC AND ORGANIC LABORATORY (KBS) (KLAB) 1 Credit Hour**

Laboratory with experiments covering material from CHEM 10050 and 10052. Students may only receive credit toward graduation for one of the following courses: CHEM 10053; or CHEM 10062 and 10063.

**Prerequisite:** CHEM 10050.

**Corequisite:** CHEM 10052.

**Schedule Type:** Laboratory

**Contact Hours:** 3 lab

**Grade Mode:** Standard Letter

**Attributes:** Kent Core Basic Sciences, Kent Core Basic Sciences Lab, Transfer Module Natural Sciences

**CHEM 10055 MOLECULES OF LIFE (KBS) 3 Credit Hours**

An integrated introduction to molecular systems and their participation in the processes of life.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Kent Core Basic Sciences

**CHEM 10060 GENERAL CHEMISTRY I (KBS) 4 Credit Hours**

Chemistry for science majors, emphasizing stoichiometry, introduction to chemical reactions, thermochemistry, atomic structure, periodicity, molecular structure and chemical bonding. Students who register for this course must successfully complete the departmentally-approved placement assessment prior to the start of the term. Students who do not complete the placement assessment and associated modules will be deregistered. Students will be informed of the requirement by the Department of Chemistry and Biochemistry. Students may only receive credit toward graduation for one of the following courses: CHEM 10050 or CHEM 10055 or CHEM 10060 or CHEM 10970. **Prerequisite:** Minimum 55 ALEKS math score; or minimum 22 ACT math score; or minimum 530 SAT math score; or minimum C grade in MATH 10675; or minimum C grade in any course MATH 11009 to MATH 49999 (MATH 14001 and MATH 14002 are not acceptable)

**Schedule Type:** Lecture

**Contact Hours:** 4 lecture

**Grade Mode:** Standard Letter

**Attributes:** Kent Core Basic Sciences, TAG Science

**CHEM 10061 GENERAL CHEMISTRY II (KBS) 4 Credit Hours**

Continuation of CHEM 10060, emphasizing intermolecular forces, properties of mixtures, main group chemistry, kinetics, equilibrium, acid-base chemistry, thermodynamics and electrochemistry. Students may only receive credit toward graduation for one of the following courses: CHEM 10050 or CHEM 10055 or CHEM 10061 or CHEM 10971.

**Prerequisite:** Minimum C grade in either CHEM 10060 or CHEM 10970.

**Schedule Type:** Lecture

**Contact Hours:** 4 lecture

**Grade Mode:** Standard Letter

**Attributes:** Kent Core Basic Sciences, TAG Science

**CHEM 10062 GENERAL CHEMISTRY I LABORATORY (KBS) (KLAB) 1 Credit Hour**

Laboratory covering pertinent aspects of CHEM 10060. Three hours weekly. Students may only receive credit toward graduation for one of the following courses: CHEM 10053 or CHEM 10062.

**Pre/corequisite:** CHEM 10060 or CHEM 10970.

**Schedule Type:** Laboratory

**Contact Hours:** 3 lab

**Grade Mode:** Standard Letter

**Attributes:** Kent Core Basic Sciences, Kent Core Basic Sciences Lab, TAG Science

**CHEM 10063 GENERAL CHEMISTRY II LABORATORY (KBS) (KLAB) 1 Credit Hour**

Laboratory covering pertinent aspects of CHEM 10061, including qualitative analysis. Students may only receive credit toward graduation for one of the following courses: CHEM 10053 or CHEM 10063.

**Prerequisite:** CHEM 10062.

**Pre/corequisite:** CHEM 10061 or CHEM 10971.

**Schedule Type:** Laboratory

**Contact Hours:** 3 lab

**Grade Mode:** Standard Letter

**Attributes:** Kent Core Basic Sciences, Kent Core Basic Sciences Lab, TAG Science

**CHEM 10970 HONORS GENERAL CHEMISTRY I (KBS) 4 Credit Hours**

Rigorous general chemistry course for qualified students. Stoichiometry, equilibrium, thermochemistry, atomic structure and chemical bonding, descriptive inorganic and nuclear chemistry.

**Prerequisite:** Special approval.

**Schedule Type:** Lecture

**Contact Hours:** 4 lecture

**Grade Mode:** Standard Letter

**Attributes:** Kent Core Basic Sciences

**CHEM 10971 HONORS GENERAL CHEMISTRY II (KBS) 4 Credit Hours**

A continuation of CHEM 10970. Topics include properties of mixtures, properties of the elements, periodic patterns, organic compounds, kinetics, equilibrium, thermodynamics and electrochemistry.

**Prerequisite:** Minimum C grade in CHEM 10970.

**Schedule Type:** Lecture

**Contact Hours:** 4 lecture

**Grade Mode:** Standard Letter

**Attributes:** Kent Core Basic Sciences

**CHEM 20050 CAREER PATHWAYS IN CHEMISTRY 1 Credit Hour**

Designed to introduce students to the wide range of career pathways available in chemistry. Students will learn different strategies for identifying and pursuing career opportunities, and will develop their communication skills through writing assignments and oral presentations.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 1 lecture

**Grade Mode:** Satisfactory/Unsatisfactory

**CHEM 20095 SPECIAL TOPICS 1-3 Credit Hours**

(Repeatable for credit) Selected topics in chemistry.

**Prerequisite:** Special approval.

**Schedule Type:** Lecture

**Contact Hours:** 1-3 lecture

**Grade Mode:** Standard Letter

**CHEM 20098 INTRODUCTION TO CHEMICAL RESEARCH (ELR) 1-3 Credit Hours**

Research experience for freshmen and sophomores. Registration requires prior approval of the research director. Does not count toward the electives for the BS or BA chemistry degree. A written report is required.

**Prerequisite:** Minimum overall 2.500 GPA in Chemistry and special approval.

**Schedule Type:** Research

**Contact Hours:** 1-3 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**Attributes:** Experiential Learning Requirement

**CHEM 20481 BASIC ORGANIC CHEMISTRY I 4 Credit Hours**

Survey of the structure, preparation and reactions (including mechanisms) of organic compounds emphasizing the chemistry of biologically important functional groups. Students may only receive credit toward graduation for one of the following courses: CHEM 10052 or CHEM 10055 or CHEM 20481 or CHEM 30481.

**Prerequisite:** Minimum C grade in CHEM 10061 or CHEM 10971.

**Schedule Type:** Lecture

**Contact Hours:** 4 lecture

**Grade Mode:** Standard Letter

**Attributes:** TAG Science

**CHEM 20482 BASIC ORGANIC CHEMISTRY II 2 Credit Hours**

Continuation of CHEM 20481, emphasizing the chemistry of functional groups prevalent in biological chemistry. Students may only receive credit toward graduation for one of the following courses: CHEM 10052 or CHEM 10055 or CHEM 20482 or CHEM 30482.

**Prerequisite:** Minimum C grade in CHEM 20481.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**Attributes:** TAG Science

**CHEM 30050 INTRODUCTION TO MATERIALS CHEMISTRY 2 Credit Hours**

This course provides an introduction to materials and their applications. It serves as the initiation for the materials chemistry concentration.

**Prerequisite:** CHEM 10061 or CHEM 10971; and CHEM 30481 and PHY 23101.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**CHEM 30105 ANALYTICAL CHEMISTRY I 3 Credit Hours**

Covers the fundamental theory, experimental methods, and applications of analytical chemistry principles in chemistry as well as other related disciplines such as life sciences and environmental science. It covers analytical measurements, experimental error, statistics, chemical equilibrium and titration, spectrometry as well as analytical separation techniques. **Prerequisite:** CHEM 10061 or CHEM 10971

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CHEM 30106 ANALYTICAL CHEMISTRY II 2 Credit Hours**

Covers the theoretical basis and experimental methods of analytical chemistry not considered in Analytical Chemistry I (CHEM 30105), such as noise reduction, advanced chemical equilibria and titrations, electrochemistry, atomic spectroscopy, instrumental design, and sample preparation.

**Prerequisite:** CHEM 30105.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**CHEM 30107 ANALYTICAL CHEMISTRY LABORATORY I (WIC) 1 Credit Hour**

Fundamental laboratory class for analytical chemistry. Provides hands-on experience to students on the subjects including data treatment, volumetric analysis, spectrophotometry, separation techniques and mass spectroscopy.

**Prerequisite:** CHEM 10063.

**Pre/corequisite:** CHEM 30105.

**Schedule Type:** Laboratory

**Contact Hours:** 3 lab

**Grade Mode:** Standard Letter

**Attributes:** Writing Intensive Course

**CHEM 30108 ANALYTICAL CHEMISTRY LABORATORY II (WIC) 2 Credit Hours**

Advanced analytical chemistry laboratory class which covers a broad range of modern analytical techniques, including ion-selective electrodes, voltammetry, atomic spectroscopy, mass-spectrometry and capillary electrophoresis. Unlike Analytical Chemistry Laboratory I (CHEM 30107) this class focuses on forensic rather than bioanalytical applications.

**Prerequisite:** CHEM 30105.

**Pre/corequisite:** CHEM 30107.

**Schedule Type:** Laboratory

**Contact Hours:** 6 lab

**Grade Mode:** Standard Letter

**Attributes:** Writing Intensive Course

**CHEM 30284 INTRODUCTORY BIOLOGICAL CHEMISTRY 4 Credit Hours**

Chemistry and metabolism of biochemically important compounds; nature of enzyme action; metabolic regulation and bioenergetics.

**Prerequisite:** CHEM 20481; or CHEM 30481 and CHEM 30482.

**Schedule Type:** Lecture

**Contact Hours:** 4 lecture

**Grade Mode:** Standard Letter

**CHEM 30301 INORGANIC CHEMISTRY I 2 Credit Hours**

Chemistry of hydrogen, ions in aqueous solution, redox reactions, coordination complexes: d-block chemistry, crystal field model, electronic spectra and magnetism, introduction to organometallic chemistry, periodic trends for p-block elements.

**Prerequisite:** CHEM 10061 or CHEM 10971.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**CHEM 30475 ORGANIC CHEMISTRY LABORATORY I (ELR) 1 Credit Hour**

Practical experience in organic laboratory techniques on both micro- and macroscale: physical methods for purification and characterization of organic compounds, introduction to organic reactions.

**Prerequisite:** CHEM 10063.

**Pre/corequisite:** CHEM 20481 or 30481.

**Schedule Type:** Laboratory

**Contact Hours:** 1 lab

**Grade Mode:** Standard Letter

**Attributes:** Experiential Learning Requirement, TAG Science



**CHEM 30476 ORGANIC CHEMISTRY LABORATORY II 1 Credit Hour**

Continuation of CHEM 30475, involving multi-step organic experiments that utilize techniques introduced in CHEM 30475.

**Prerequisite:** CHEM 30475.

**Pre/corequisite:** CHEM 20482 or 30482.

**Schedule Type:** Laboratory

**Contact Hours:** 1 lab

**Grade Mode:** Standard Letter

**Attributes:** TAG Science

**CHEM 30481 ORGANIC CHEMISTRY I 3 Credit Hours**

Introduction to organic chemistry from structural, mechanistic and synthetic viewpoints with an emphasis on the chemistry of biologically relevant functional groups. Students may only receive credit toward graduation for one of the following courses: CHEM 10052 or CHEM 10055 or CHEM 20481 or CHEM 30481.

**Prerequisite:** Minimum C grade in CHEM 10061 or CHEM 10971.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CHEM 30482 ORGANIC CHEMISTRY II 3 Credit Hours**

Continuation of CHEM 30481; organic chemistry from mechanistic and synthetic viewpoints; IR and NMR spectroscopy; mass spectrometry. Students may only receive credit toward graduation for one of the following courses: CHEM 10052 or CHEM 10055 or CHEM 20482 or CHEM 30482.

**Prerequisite:** Minimum C grade in CHEM 30481.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CHEM 40053 MATERIALS CHEMISTRY LABORATORY 2 Credit Hours**

Exploration of the synthesis, characterization and application of inorganic and organic materials.

**Prerequisite:** CHEM 30050.

**Schedule Type:** Laboratory

**Contact Hours:** 2 lab

**Grade Mode:** Standard Letter

**CHEM 40092 INTERNSHIP IN CHEMISTRY AND BIOCHEMISTRY (ELR)  
1-9 Credit Hours**

Workplace experience in chemistry or biochemistry relevant to a student's career objectives. Includes career advising and job search strategies. Comprehensive written report and presentation of activities required after completion of internship.

**Prerequisite:** Junior standing; and special approval.

**Schedule Type:** Practical Experience

**Contact Hours:** 3-27 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**Attributes:** Experiential Learning Requirement

**CHEM 40093 VARIABLE TITLE WORKSHOP IN CHEMISTRY 1-6  
Credit Hours**

(Repeatable for credit) Variable titled workshop in chemistry.

**Prerequisite:** Special approval.

**Schedule Type:** Workshop

**Contact Hours:** 1-6 other

**Grade Mode:** Satisfactory/Unsatisfactory

**CHEM 40099 SENIOR HONORS THESIS (ELR) 1-10 Credit Hours**

(Repeatable for credit) For departmental honors may be started summer prior to senior year. Register each semester during senior year. Minimum total credit 5-hours.

**Prerequisite:** Departmental and honors college approval.

**Schedule Type:** Senior Project/Honors Thesis

**Contact Hours:** 1-10 other

**Grade Mode:** Standard Letter-IP

**Attributes:** Experiential Learning Requirement

**CHEM 40109 BIOANALYTICAL CHEMISTRY 3 Credit Hours**

(Slashed with CHEM 50109 and CHEM 70109) Covers traditional as well as newly emerging topics in the field of bioanalytical chemistry. Provides an overview of the fundamental biological targets for bioanalytical assays, such as lipids, peptides, proteins, nucleic acids and cells. Briefly introduces traditional tools, such as chromatography, electrophoresis, mass spectrometry, fluorescence techniques, immunoassays, and biosensors. Discusses approaches most recently developed in the field, which include lab-on-a-chip and single molecule techniques.

**Prerequisite:** CHEM 30105.

**Pre/corequisite:** CHEM 30284 or CHEM 40245 or CHEM 40261.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CHEM 40110 ANALYTICAL MASS SPECTROMETRY 3 Credit Hours**

(Slashed with CHEM 50110 and CHEM 70110) Survey of modern techniques in and associated with mass spectrometry, including historical perspectives, strengths and weaknesses, detection and quantification of analytes, ionization source and mass analyzer design, as well as construction of associated technologies including vacuum systems, ion detection, and ion optics. Ion formation processes will also be discussed.

**Prerequisite:** Minimum C grade in CHEM 30105; and a minimum C grade in MATH 12002 or MATH 12021.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CHEM 40113 CHEMICAL SEPARATIONS 3 Credit Hours**

(Cross-listed with CHEM 50113 and CHEM 70113) Theory, instrumentation and applications of chemical separations for chemical analysis with an emphasis on gas and liquid chromatography.

**Prerequisite:** CHEM 30106.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CHEM 40116 SPECTROCHEMICAL METHODS OF ANALYSIS 3 Credit  
Hours**

(Slashed with CHEM 50116 and CHEM 70116) Presented material is designed to familiarize students with fundamental concepts in spectrochemical analyses, mainly in the form of optical spectroscopic methods. Design and construction of spectroscopic instruments, detection and quantification of analytes, interaction of electromagnetic radiation with molecules, as well as collection and processing of analytical signals will be presented.

**Prerequisite:** Minimum C grade in CHEM 30105; and a minimum C grade in MATH 12002 or MATH 12021.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CHEM 40195 SPECIAL TOPICS IN ANALYTICAL CHEMISTRY 1-3 Credit Hours**

(Repeatable for credit) Selected topics in analytical chemistry.

**Prerequisite:** Special approval.

**Schedule Type:** Lecture

**Contact Hours:** 1-3 lecture

**Grade Mode:** Standard Letter

**CHEM 40245 BIOCHEMICAL FOUNDATIONS OF MEDICINE 4 Credit Hours**

(Slashed with CHEM 50245) Chemistry and metabolism of biologically important compounds; enzyme catalysis; metabolic regulation, inborn and induced errors of metabolism. Does not count toward the BS Chemistry (Biochemistry Concentration) or BS Chemistry (Biochemistry-Pre-Medicine, Pre-Osteopathy, Pre-Dentistry Concentration)

**Prerequisite:** CHEM 30481.

**Pre/corequisite:** CHEM 30482.

**Schedule Type:** Lecture

**Contact Hours:** 4 lecture

**Grade Mode:** Standard Letter

**CHEM 40248 ADVANCED BIOLOGICAL CHEMISTRY 3 Credit Hours**

(Slashed with CHEM 50248 and CHEM 70248) Supra-molecular structures of DNA, advanced topics in DNA replication, recombination, damage and repair; gene transcription, Pre-RNA processing, mRNA translation, post-translational modifications on proteins; protein folding, protein splicing, sorting of proteins in different parts of the cells, and protein turn-over; cell signaling and cell cycle; and genetic diseases and their therapies.

**Prerequisite:** CHEM 30284 or CHEM 40245.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CHEM 40251 ADVANCED BIOLOGICAL CHEMISTRY LABORATORY (WIC) 2 Credit Hours**

Practical experience in the characterization of biomolecules; recombinant DNA technology; electrophoretic separation of macromolecules, affinity purification; mass spectrometric approaches; protein folding; RNA structure, interactions and catalytic mechanisms.

**Pre/corequisite:** CHEM 40262.

**Schedule Type:** Lecture

**Contact Hours:** 6 lab

**Grade Mode:** Standard Letter

**Attributes:** Writing Intensive Course

**CHEM 40261 PRINCIPLES OF BIOCHEMISTRY I 3 Credit Hours**

(Cross-listed with CHEM 50261 and CHEM 70261) Introduction to biochemical principles regarding the structure and function of biomolecules including water, amino acids, proteins, carbohydrates and lipids; emphasis on enzymes, membranes and bioenergetics.

**Prerequisite:** CHEM 20481 or CHEM 30482.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CHEM 40262 PRINCIPLES OF BIOCHEMISTRY II 3 Credit Hours**

(Cross-listed with CHEM 50262 and CHEM 70262) Aspects of biochemistry focusing on information, chemical and energy flow, including: integration of metabolic pathways; DNA replication, repair, recombination and modification; transcription and translation; signal transduction, post-translational modification.

**Prerequisite:** CHEM 40261.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CHEM 40263 PHYSICAL BIOCHEMISTRY 3 Credit Hours**

(Slashed with CHEM 50263 and CHEM 70263) Principles and techniques of physical chemistry used in studying biomacromolecules and biological systems, spectroscopy, structure and properties of biological molecules.

**Prerequisite:** CHEM 40555 or CHEM 40567; and CHEM 30284 or CHEM 40245 or CHEM 40261.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CHEM 40264 MEDICAL BIOCHEMISTRY 3 Credit Hours**

(Slashed with CHEM 50264 and CHEM 70264) The course provides an in-depth exploration of the biochemical basis for disease and its application to clinical medicine with an emphasis on new discoveries and other advances.

**Prerequisite:** CHEM 40262 or BSCI 40143.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CHEM 40295 SPECIAL TOPICS IN BIOCHEMISTRY 1-3 Credit Hours**

(Repeatable for credit) Selected topics in biochemistry.

**Prerequisite:** Special approval.

**Schedule Type:** Lecture

**Contact Hours:** 1-3 lecture

**Grade Mode:** Standard Letter

**CHEM 40302 INORGANIC CHEMISTRY II 2 Credit Hours**

(Cross-listed with CHEM 50302) Physical techniques in inorganic chemistry, molecular structure and bonding, metallic and ionic solids, organometallic chemistry, homogeneous and heterogeneous catalysis; solid-state and materials chemistry, nanomaterials, nanoscience and nanotechnology.

**Prerequisite:** CHEM 30301.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**CHEM 40303 INORGANIC CHEMISTRY III 2 Credit Hours**

(Cross-listed with CHEM 50303) Molecular symmetry, molecular orbital theory of polyatomic molecules and octahedra complexes, electronic spectra and reaction mechanisms of d-block complexes, periodic trends Groups 1 and 2 and d-block, bioinorganic chemistry.

**Prerequisite:** CHEM 40302.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**CHEM 40352 INORGANIC MATERIALS CHEMISTRY 3 Credit Hours**

(Slashed with CHEM 50352 and CHEM 70352) Broad survey of the synthesis, properties, characterization and applications of inorganic materials.

**Prerequisite:** CHEM 40302.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CHEM 40364 INTERMEDIATE INORGANIC CHEMISTRY LAB 1 Credit Hour**

A laboratory course providing experience in the synthesis of significant inorganic compounds and the techniques of various experimental and spectroscopic methods and chromatographic separations.

**Prerequisite:** CHEM 40302.

**Schedule Type:** Laboratory

**Contact Hours:** 3 lab

**Grade Mode:** Standard Letter

**CHEM 40365 BIOLOGICAL INORGANIC CHEMISTRY 3 Credit Hours**

(Slashed with CHEM 50365 and CHEM 70365) Physical methods, s-block metals, metal ion-induced folding, electron transfer proteins, oxidoreductases, substrate binding and activation by non-redox mechanisms, biomineralization, group-atom transfer and metals in medicine.

**Prerequisite:** CHEM 30301.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CHEM 40395 SPECIAL TOPICS IN INORGANIC CHEMISTRY 1-3 Credit Hours**

(Repeatable for credit) Selected topics in inorganic chemistry.

**Prerequisite:** Special approval.

**Schedule Type:** Lecture

**Contact Hours:** 1-3 lecture

**Grade Mode:** Standard Letter

**CHEM 40451 ORGANIC MATERIALS CHEMISTRY 3 Credit Hours**

(Slashed with CHEM 50451 and CHEM 70451) Broad survey of the synthesis, properties, characterization and applications of organic and polymeric materials.

**Prerequisite:** CHEM 30482.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CHEM 40476 SPECTROSCOPIC IDENTIFICATION OF ORGANIC COMPOUNDS 2 Credit Hours**

(Slashed with CHEM 50476 and CHEM 70476) Strategies for structural elucidation of organic compounds from analysis of infrared, proton and carbon NMR, and mass spectrometric data through lectures and problem solving.

**Prerequisite:** CHEM 30482.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**CHEM 40477 INTERMEDIATE ORGANIC CHEMISTRY LABORATORY 1 Credit Hour**

Continuation of CHEM 30476, including hands-on use of a high-field NMR spectrometer; single and multistep organic syntheses.

**Prerequisite:** CHEM 30476 and CHEM 40483.

**Schedule Type:** Laboratory

**Contact Hours:** 1 lab

**Grade Mode:** Standard Letter

**CHEM 40478 SYNTHESIS OF ORGANIC LIQUID CRYSTALS 3 Credit Hours**

(Slashed with CHEM 50478 and CHEM 70478) Synthesis of organic thermotropic liquid crystals including nematic, smectic and discotic variants. Evaluation of the phase types using polarizing microscopy and DSC. Brief introduction into their use in display devices.

**Prerequisite:** CHEM 30482.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CHEM 40483 INTERMEDIATE ORGANIC CHEMISTRY 1 Credit Hour**

Continuation of CHEM 30482; organic chemistry from mechanistic and synthetic viewpoints, including synthetic design, organotransition metal chemistry and free radical chemistry.

**Prerequisite:** A minimum C grade in CHEM 30482.

**Schedule Type:** Lecture

**Contact Hours:** 1 lecture

**Grade Mode:** Standard Letter

**CHEM 40495 SPECIAL TOPICS IN ORGANIC CHEMISTRY 1-3 Credit Hours**

(Repeatable for credit) Selected topics in organic chemistry.

**Prerequisite:** Special approval.

**Schedule Type:** Lecture

**Contact Hours:** 1-3 lecture

**Grade Mode:** Standard Letter

**CHEM 40555 PHYSICAL CHEMISTRY I 3 Credit Hours**

(Slashed with CHEM 50555 and CHEM 70555) Fundamental concepts of physical chemistry, with example problems chosen emphasizing applications in chemistry and the biological sciences.

**Prerequisite:** Minimum C grade in CHEM 10061 or CHEM 10971; and a minimum MATH 12003; and PHY 23102.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CHEM 40556 PHYSICAL CHEMISTRY II 3 Credit Hours**

(Slashed with CHEM 50556 and CHEM 70556) A continuation of CHEM 40555. Areas covered include quantum mechanics, atomic and molecular structure, spectroscopy, statistical mechanics, theories of reaction rates and the solid state.

**Prerequisite:** CHEM 40555 or PHY 45301.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CHEM 40557 PHYSICAL CHEMISTRY LABORATORY 2 Credit Hours**  
(Slashed with CHEM 50557 and CHEM 70557) Experiments in numerous areas of physical chemistry, including the interpretation and reporting of obtained experimental data, correlation of results with theory and an introduction to the computer treatment of data.

**Prerequisite:** CHEM 40556.

**Schedule Type:** Laboratory

**Contact Hours:** 3 lab

**Grade Mode:** Standard Letter

**CHEM 40559 NANOMATERIALS 3 Credit Hours**

(Slashed with CHEM 50559 and CHEM 70559) Fundamental aspects of nanomaterials ranging from nanoparticles to three-dimensional (3D) nanostructures emphasizing their synthesis, chemistry and applications.

**Prerequisite:** CHEM 10061 or CHEM 10971 and; CHEM 40555 or CHEM 40567.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CHEM 40567 PHYSICAL CHEMISTRY FOR LIFE SCIENCES 4 Credit Hours**

Traditional aspects of physical chemistry with minimal calculus treatment. Applications to the health sciences emphasized.

**Prerequisite:** Minimum C grade in CHEM 10061 or CHEM 10971; and MATH 12002 or MATH 12021.

**Pre/corequisite:** PHY 13002 or PHY 23102.

**Schedule Type:** Lecture

**Contact Hours:** 4 lecture

**Grade Mode:** Standard Letter

**CHEM 40568 ELEMENTARY PHYSICAL CHEMISTRY LABORATORY 1 Credit Hour**

Provides hands-on experience with calorimetry, viscosimetry and spectroscopic techniques.

**Prerequisite:** CHEM 40555 or CHEM 40567.

**Schedule Type:** Laboratory

**Contact Hours:** 1 lab

**Grade Mode:** Standard Letter

**CHEM 40571 SURFACE CHEMISTRY 2 Credit Hours**

(Slashed with CHEM 50571 and CHEM 70571) Treatment of basic principles and concepts in surface and colloid chemistry. Relationship to practical systems emphasized. Two hours lecture weekly.

**Prerequisite:** CHEM 40555 or CHEM 40567.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**CHEM 40595 SPECIAL TOPICS IN PHYSICAL CHEMISTRY 1-3 Credit Hours**

(Repeatable for credit) Selected topics in physical chemistry.

**Prerequisite:** Special approval.

**Schedule Type:** Lecture

**Contact Hours:** 1-3 lecture

**Grade Mode:** Standard Letter

**CHEM 40795 CURRENT TOPICS IN CHEMICAL EDUCATION 1-3 Credit Hours**

(Repeatable for credit) (Cross-listed with CHEM 50795) Recent advances in chemical research, instrumentation and theory important to chemical educators.

**Prerequisite:** Permission.

**Schedule Type:** Lecture

**Contact Hours:** 1-3 lecture

**Grade Mode:** Satisfactory/Unsatisfactory

**CHEM 40796 INDIVIDUAL INVESTIGATION 1-8 Credit Hours**

(Repeatable for credit) Registration requires prior approval of the research director. Written report required. Maximum of two hours may be applied to the four hour CHEM 40000 elective requirement for the chemistry concentration within the B.S. in Chemistry.

**Prerequisite:** Minimum 2.500 overall GPA in Chemistry; and special approval.

**Schedule Type:** Individual Investigation

**Contact Hours:** 1-8 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**CHEM 41010 BIOPHOTONICS 3 Credit Hours**

(Slashed with CHEM 51010; Cross-listed with BSCI 41110 and BSCI 51110 and PHY 41010 and PHY 51010) Interdisciplinary overview of the basics of biophotonics; application of biophotonic techniques to probe biological samples. Introduction to the foundations of optics and photonics and how the molecular structure of organic molecules translates into unique photonic properties and targeting in biological cells or tissue. Preparation of fluorescent materials, advanced spectroscopy and cell visualization using regular and confocal fluorescence microscopy.

**Prerequisite:** Special approval.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 1 lecture, 6 lab

**Grade Mode:** Standard Letter

**CHEM 50093 VARIABLE TITLE WORKSHOP IN CHEMISTRY 1-6 Credit Hours**

(Repeatable for credit) Variable titled workshop in chemistry.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Workshop

**Contact Hours:** 1-6 other

**Grade Mode:** Satisfactory/Unsatisfactory

**CHEM 50109 BIOANALYTICAL CHEMISTRY 3 Credit Hours**

(Slashed with CHEM 40109 and CHEM 70109) Covers traditional as well as newly emerging topics in the field of bioanalytical chemistry. The course will provide an overview of the fundamental biological targets for the bioanalytical assays, such as lipids, peptides, proteins, nucleic acids, and cells. The course will then briefly introduce traditional tools, such as chromatography, electrophoresis, mass spectrometry, fluorescence techniques, immunoassays, and biosensors. Finally, the course will discuss approaches most recently developed in the field, which include lab-on-a-chip and single molecule techniques.

**Prerequisite:** CHEM 30105; and graduate standing; and special approval.

**Corequisite:** CHEM 30284 or 40245 or 40261.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CHEM 50110 ANALYTICAL MASS SPECTROMETRY 3 Credit Hours**  
(Slashed with CHEM 40110 and CHEM 70110) Survey of modern techniques in and associated with mass spectrometry, including historical perspectives, strengths and weaknesses, detection and quantification of analytes, ionization source and mass analyzer design, as well as construction of associated technologies including vacuum systems, ion detection, and ion optics. Ion formation processes will also be discussed.

**Prerequisite:** Graduate standing in Chemistry.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CHEM 50113 CHEMICAL SEPARATIONS 3 Credit Hours**  
(Slashed with CHEM 40113 and CHEM 70113) Theory, instrumentation and applications of chemical separations for chemical analysis. Emphasis on gas and liquid chromatography.

**Prerequisite:** CHEM 30106; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CHEM 50116 SPECTROCHEMICAL METHODS OF ANALYSIS 3 Credit Hours**

(Slashed with CHEM 40116 and CHEM 70116) Presented material is designed to familiarize students with fundamental concepts in spectrochemical analyses, mainly in the form of optical spectroscopic methods. Design and construction of spectroscopic instruments, detection and quantification of analytes, interaction of electromagnetic radiation with molecules, as well as collection and processing of analytical signals will be presented.

**Prerequisite:** Graduate standing in Chemistry.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CHEM 50166 PRINCIPLES AND APPLICATIONS IN ANALYTICAL CHEMISTRY 2 Credit Hours**

Survey of important principles and concepts and their application in Analytical Chemistry.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**CHEM 50245 BIOCHEMICAL FOUNDATIONS OF MEDICINE 4 Credit Hours**

(Slashed with CHEM 40245) Introduction to chemistry and metabolism of important compounds in biological systems; enzymes and characteristics of enzyme catalysis; regulation of metabolism at molecular, cellular and organism levels; inborn and induced errors of metabolism. Designed and scheduled for and priority given to students in integrated life sciences program.

**Prerequisite:** CHEM 30481; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 4 lecture

**Grade Mode:** Standard Letter

**CHEM 50248 ADVANCED BIOLOGICAL CHEMISTRY 3 Credit Hours**  
(Slashed with CHEM 40248 and CHEM 70248) Supra-molecular structures of DNA, advanced topics in DNA replication, recombination, damage and repair; gene transcription, Pre-RNA processing, mRNA translation, post-translational modifications on proteins; protein folding, protein splicing, sorting of proteins in different parts of the cells, and protein turn-over; cell signaling and cell cycle; and genetic diseases and their therapies.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CHEM 50261 PRINCIPLES OF BIOCHEMISTRY I 3 Credit Hours**

(Slashed with CHEM 40261 and CHEM 70261) Introduction to biochemical principles regarding the structure and function of biomolecules including water, amino acids, proteins, carbohydrates and lipids; emphases on enzymes, membranes and bioenergetics.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CHEM 50262 PRINCIPLES OF BIOCHEMISTRY II 3 Credit Hours**

(Slashed with CHEM 40262 and CHEM 70262) Aspects of biochemistry focusing on information, chemical and energy flow, including: integration of metabolic pathways; DNA replication, repair, recombination and modification; transcription and translation; signal transduction, and post-translational modification.

**Prerequisite:** CHEM 50261 or CHEM 70261; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CHEM 50263 PHYSICAL BIOCHEMISTRY 3 Credit Hours**

(Slashed with CHEM 40263 and CHEM 70263) Principles and techniques of physical chemistry used in studying biomacromolecules and biological systems. Topics covered are thermodynamics, spectroscopy, structure and properties of biological molecules.

**Prerequisite:** Graduate standing in Chemistry.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CHEM 50264 MEDICAL BIOCHEMISTRY 3 Credit Hours**

(Slashed with CHEM 40624 and CHEM 70624) Course provides an in-depth exploration of the biochemical basis for disease and its application to clinical medicine with an emphasis on new discoveries and other advances.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CHEM 50266 PRINCIPLES AND APPLICATIONS IN BIOCHEMISTRY 2 Credit Hours**

Survey of important principles and concepts and their application in biochemistry.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture, 2 lab

**Grade Mode:** Standard Letter



**CHEM 50302 INORGANIC CHEMISTRY II 2 Credit Hours**

(Slashed with CHEM 40302) Physical techniques in inorganic chemistry, molecular structure and bonding, metallic and ionic solids, organometallic chemistry, homogeneous and heterogeneous catalysis; solid-state and materials chemistry, nanomaterials, nanoscience and nanotechnology.

**Prerequisite:** CHEM 30301; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**CHEM 50303 INORGANIC CHEMISTRY III 2 Credit Hours**

(Slashed with CHEM 40303) Molecular symmetry, molecular orbital theory of polyatomic molecules and octahedral complexes, electronic spectra and reaction mechanisms of d-block complexes, periodic trends Groups 1 and 2 and d-block, bioinorganic chemistry.

**Prerequisite:** CHEM 50302; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**CHEM 50352 INORGANIC MATERIALS CHEMISTRY 3 Credit Hours**

(Slashed with CHEM 40352 and CHEM 70352) Broad survey of the synthesis, properties, characterization and applications of inorganic materials.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CHEM 50365 BIOLOGICAL INORGANIC CHEMISTRY 3 Credit Hours**

(Slashed with CHEM 40365 and CHEM 70365) Physical methods, s-block metals, metal-induced stabilization, electron transfer proteins, oxidoreductases, hydrolases and lyases, metal transport and storage, nitrogenases, group-atom transfer and metals in medicine.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CHEM 50366 PRINCIPLES AND APPLICATIONS IN INORGANIC CHEMISTRY 2 Credit Hours**

Survey of important principles and concepts and their application in inorganic chemistry.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**CHEM 50451 ORGANIC MATERIALS CHEMISTRY 3 Credit Hours**

(Slashed with CHEM 40451 and CHEM 70451) Broad survey of the synthesis, properties, characterization and applications of organic and polymeric materials.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CHEM 50466 PRINCIPLES AND APPLICATIONS IN ORGANIC CHEMISTRY 2 Credit Hours**

Survey of important principles and concepts and their application in Organic Chemistry.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**CHEM 50476 SPECTROSCOPIC IDENTIFICATION OF ORGANIC COMPOUNDS 2 Credit Hours**

(Slashed with CHEM 40476 and CHEM 70476) Strategies for structural elucidation of organic compounds from analysis of infrared, proton and carbon NMR and mass spectrometric data through lectures and problem solving.

**Prerequisite:** CHEM 30482; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**CHEM 50478 SYNTHESIS OF ORGANIC LIQUID CRYSTALS 3 Credit Hours**

(Slashed with CHEM 40478 and CHEM 70478) Synthesis of organic thermotropic liquid crystals including nematic, smectic and discotic variants. Evaluation of the phase types using polarizing microscopy and DSC. Brief introduction into their use in display devices.

**Prerequisite:** CHEM 30482; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CHEM 50555 PHYSICAL CHEMISTRY I 3 Credit Hours**

(Slashed with CHEM 40555 and CHEM 70555) Fundamental concepts of physical chemistry, with example problems chosen emphasizing application in chemistry and the biological sciences.

**Prerequisite:** Graduate standing in Chemistry.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CHEM 50556 PHYSICAL CHEMISTRY II 3 Credit Hours**

(Slashed with CHEM 40556 and CHEM 70556) A continuation of CHEM 50555. Areas covered are chemical kinetics, quantum chemistry and the solid state.

**Prerequisite:** CHEM 50555 or PHY 45301; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CHEM 50557 PHYSICAL CHEMISTRY LABORATORY 2 Credit Hours**

(Slashed with CHEM 40557 and CHEM 70557) Experiments in numerous areas of physical chemistry, including the interpretation and reporting of obtained experimental data, correlation of results with theory and an introduction to the computer treatment of data.

**Prerequisite:** Graduate standing.

**Pre/corequisite:** CHEM 50555 and CHEM 50556.

**Schedule Type:** Laboratory

**Contact Hours:** 4 lab

**Grade Mode:** Standard Letter

**CHEM 50559 NANOMATERIALS 3 Credit Hours**

(Slashed with CHEM 40559 and CHEM 70559). Fundamental aspects of nanomaterials ranging from nanoparticles to three-dimensional (3D) nanostructures emphasizing their synthesis, chemistry and applications.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CHEM 50566 PRINCIPLES AND APPLICATIONS IN PHYSICAL CHEMISTRY 2 Credit Hours**

Survey of key principles and concepts and their application in Physical Chemistry.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**CHEM 50571 SURFACE CHEMISTRY 2 Credit Hours**

(Slashed with CHEM 40571 and CHEM 70571) Treatment of basic principles and concepts in surface and colloid chemistry. Relationship to practical systems emphasized.

**Prerequisite:** CHEM 40555 or 40567; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**CHEM 50795 CURRENT TOPICS IN CHEMICAL EDUCATION 1-3 Credit Hours**

(Repeatable for credit) (Slashed with CHEM 40795) Designed to present recent advances in chemical research, instrumentation and theory to chemistry educators.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 1-3 lecture

**Grade Mode:** Satisfactory/Unsatisfactory

**CHEM 51010 BIOPHOTONICS 3 Credit Hours**

(Slashed with CHEM 41010; Cross-listed with BSCI 41110 and BSCI 51110 and PHY 41010 and PHY 51010) Interdisciplinary overview of the basics of biophotonics; application of biophotonic techniques to probe biological samples. Introduction to the foundations of optics and photonics and how the molecular structure of organic molecules translates into unique photonic properties and targeting in biological cells or tissue. Preparation of fluorescent materials, advanced spectroscopy and cell visualization using regular and confocal fluorescence microscopy.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 1 lecture, 6 lab

**Grade Mode:** Standard Letter

**CHEM 60099 MASTERS CAPSTONE PROJECT 3-6 Credit Hours**

Capstone project in the form of literature reviews or research projects on topics in chemistry, biochemistry, or chemical education.

**Prerequisite:** Graduate standing.

**Schedule Type:** Master's Project

**Contact Hours:** 3-6 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**CHEM 60199 THESIS I 2-6 Credit Hours**

Thesis students must register for a total of 6 hours, 2 to 6 hours in single semester distributed over several semesters if desired.

**Prerequisite:** Graduate standing.

**Schedule Type:** Masters Thesis

**Contact Hours:** 2-6 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**CHEM 60254 BIOMEMBRANES 2 Credit Hours**

(Slashed with CHEM 70254) Biological membranes; composition, structure, dynamics and biogenesis; structure/function of protein mediated membrane transport.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**CHEM 60291 SEMINAR: RECENT DEVELOPMENTS IN BIOCHEMISTRY 1 Credit Hour**

(Repeatable for credit) (Slashed with CHEM 70291) Presentation and discussion of research papers from current biochemistry literature. Participation by students and faculty.

**Prerequisite:** Graduate standing.

**Schedule Type:** Seminar

**Contact Hours:** 1 other

**Grade Mode:** Standard Letter-IP

**CHEM 60299 THESIS II 2 Credit Hours**

Thesis students must continue registration until all degree requirements are met.

**Prerequisite:** CHEM 60199; and graduate standing.

**Schedule Type:** Masters Thesis

**Contact Hours:** 2 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**CHEM 60327 MODERN INORGANIC CHEMISTRY 3 Credit Hours**

(Slashed with CHEM 70327) Synthesis, structure and reactivity of inorganic compounds including transition metal and organometallic complexes.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CHEM 60391 SEMINAR: RECENT DEVELOPMENTS IN INORGANIC CHEMISTRY 1 Credit Hour**

(Repeatable for credit) (Slashed with CHEM 70391) Presentation and discussion of research papers from current inorganic chemistry literature. Participation by students and faculty.

**Prerequisite:** Graduate standing.

**Schedule Type:** Seminar

**Contact Hours:** 1 other

**Grade Mode:** Standard Letter-IP

**CHEM 60472 ADVANCED ORGANIC CHEMISTRY-SYNTHETIC ASPECTS 3 Credit Hours**

(Slashed with CHEM 70472) Disconnection approach to organic synthesis. Modern methods for carbon-carbon bond formation and functional group interconversion, and their application to natural product synthesis.

**Prerequisite:** CHEM 30482; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CHEM 60473 STEREOSELECTIVE ORGANIC SYNTHESIS 3 Credit Hours**

(Slashed with CHEM 70473) Modern methods of asymmetric synthesis; introduction to selected methods for stereoselective N-heterocycle synthesis; application of these methods in natural product synthesis.

**Prerequisite:** CHEM 30482; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CHEM 60541 ADVANCED PHYSICAL CHEMISTRY 3 Credit Hours**

(Slashed with CHEM 70541) Covers basic materials of modern physical chemistry in two broad areas: thermodynamics and introductory quantum mechanics.

**Prerequisite:** CHEM 50556; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CHEM 60591 SEMINAR: RECENT DEVELOPMENTS IN PHYSICAL CHEMISTRY 1 Credit Hour**

(Repeatable for credit) (Slashed with CHEM 70591) Presentation and discussion of research papers from current physical chemistry literature. Participation by students and faculty.

**Prerequisite:** Graduate standing.

**Schedule Type:** Seminar

**Contact Hours:** 1 other

**Grade Mode:** Standard Letter-IP

**CHEM 60691 SEMINAR: RECENT DEVELOPMENTS IN INDUSTRIAL CHEMISTRY 1 Credit Hour**

Presentation and discussion of research papers from the current industrial chemistry field. Participation by students and faculty.

**Prerequisite:** Graduate standing.

**Schedule Type:** Seminar

**Contact Hours:** 1 other

**Grade Mode:** Standard Letter

**CHEM 60894 COLLEGE TEACHING OF CHEMISTRY 1 Credit Hour**

(Repeatable for credit) (Slashed with CHEM 70894) Experience in teaching of chemistry at college level.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 1 lecture

**Grade Mode:** Satisfactory/Unsatisfactory

**CHEM 60898 MASTERS RESEARCH 1-15 Credit Hours**

(Repeatable for credit) Research for master's students. Credits earned may be applied toward degree if department approves.

**Prerequisite:** Graduate standing.

**Schedule Type:** Research

**Contact Hours:** 1-15 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**CHEM 61191 SEMINAR: PROBLEM SOLVING IN ANALYTICAL CHEMISTRY 1 Credit Hour**

(Repeatable for credit) (Slashed with CHEM 71191) Problem solving in analytical chemistry, including chemical analysis methods, instrumentation, sample preparation, and data handling.

**Prerequisite:** Graduate standing.

**Schedule Type:** Seminar

**Contact Hours:** 1 other

**Grade Mode:** Standard Letter-IP

**CHEM 61491 SEMINAR: PROBLEM SOLVING IN ORGANIC CHEMISTRY 1 Credit Hour**

(Repeatable for credit) (Slashed with CHEM 71491) Practical experience in the solving of current problems of synthesis, spectroscopy, and mechanism in organic chemistry.

**Prerequisite:** Graduate standing.

**Schedule Type:** Seminar

**Contact Hours:** 1 other

**Grade Mode:** Standard Letter-IP

**CHEM 62191 SEMINAR: ANALYTICAL CHEMISTRY 1 Credit Hour**

(Repeatable for credit) (Slashed with CHEM 72191) Student and faculty presentations on topics in analytical chemistry.

**Prerequisite:** Graduate standing.

**Schedule Type:** Seminar

**Contact Hours:** 1 other

**Grade Mode:** Standard Letter-IP

**CHEM 62291 SEMINAR: BIOCHEMISTRY 1 Credit Hour**

(Repeatable for credit) (Slashed with CHEM 72291) Student and faculty presentations on topics in biochemistry

**Prerequisite:** Graduate standing.

**Schedule Type:** Seminar

**Contact Hours:** 1 other

**Grade Mode:** Standard Letter-IP

**CHEM 62391 SEMINAR: INORGANIC CHEMISTRY 1 Credit Hour**

(Repeatable for credit) (Slashed with CHEM 72391) Student and faculty presentations on topics in inorganic chemistry.

**Prerequisite:** Graduate standing.

**Schedule Type:** Seminar

**Contact Hours:** 1 other

**Grade Mode:** Standard Letter-IP

**CHEM 62491 SEMINAR: ORGANIC CHEMISTRY 1 Credit Hour**

(Repeatable for credit) (Slashed with CHEM 72491) Presentation of topics from the recent literature on aspects of organic chemistry including synthesis, spectroscopy, mechanism, and materials properties.

**Prerequisite:** Graduate standing.

**Schedule Type:** Seminar

**Contact Hours:** 1 other

**Grade Mode:** Standard Letter-IP

**CHEM 62591 SEMINAR: PHYSICAL CHEMISTRY 1 Credit Hour**

(Repeatable for credit) (Slashed with CHEM 72591) Student and faculty presentations on topics in physical chemistry.

**Prerequisite:** Graduate standing.

**Schedule Type:** Seminar

**Contact Hours:** 1 other

**Grade Mode:** Standard Letter-IP

**CHEM 62691 SEMINAR: INDUSTRIAL CHEMISTRY 1 Credit Hour**

Presentation of current research in industrial chemistry. Participation by students and faculty.

**Prerequisite:** Graduate standing.

**Schedule Type:** Seminar

**Contact Hours:** 1 other

**Grade Mode:** Standard Letter

**CHEM 62791 SEMINAR: CHEMICAL EDUCATION 1 Credit Hour**

Presentation of current research in chemical education. Participation by students and faculty.

**Prerequisite:** Graduate standing.

**Schedule Type:** Seminar

**Contact Hours:** 1 other

**Grade Mode:** Standard Letter

**CHEM 70093 VARIABLE TITLE WORKSHOP IN CHEMISTRY 1-6 Credit Hours**

(Repeatable for credit) Variable title workshop in Chemistry.

**Prerequisite:** Doctoral standing; and special approval.

**Schedule Type:** Workshop

**Contact Hours:** 1-6 other

**Grade Mode:** Satisfactory/Unsatisfactory

**CHEM 70109 BIOANALYTICAL CHEMISTRY 3 Credit Hours**

(Slashed with CHEM 40109 and CHEM 50109) Covers traditional as well as newly emerging topics in the field of bioanalytical chemistry. The course will provide an overview of the fundamental biological targets for the bioanalytical assays, such as lipids, peptides, proteins, nucleic acids, and cells. The course will then briefly introduce traditional tools, such as chromatography, electrophoresis, mass spectrometry, fluorescence techniques, immunoassays, and biosensors. Finally, the course will discuss approaches most recently developed in the field, which include lab-on-a-chip and single molecule techniques.

**Prerequisite:** CHEM 30105; and doctoral standing; and special approval.

**Corequisite:** CHEM 30284 or CHEM 40245 or CHEM 40261.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CHEM 70110 ANALYTICAL MASS SPECTROMETRY 3 Credit Hours**

(Slashed with CHEM 40110 and CHEM 50110) Survey of modern techniques in and associated with mass spectrometry, including historical perspectives, strengths and weaknesses, detection and quantification of analytes, ionization source and mass analyzer design, as well as construction of associated technologies including vacuum systems, ion detection, and ion optics. Ion formation processes will also be discussed.

**Prerequisite:** Doctoral standing in Chemistry.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CHEM 70113 CHEMICAL SEPARATIONS 3 Credit Hours**

(Slashed with CHEM 40113 and CHEM 50113) Theory, instrumentation and applications of chemical separations for chemical analysis. Emphasis on gas and liquid chromatography.

**Prerequisite:** CHEM 30106; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CHEM 70116 SPECTROCHEMICAL METHODS OF ANALYSIS 3 Credit Hours**

(Slashed with CHEM 40116 and CHEM 50116) Presented material is designed to familiarize students with fundamental concepts in spectrochemical analyses, mainly in the form of optical spectroscopic methods. Design and construction of spectroscopic instruments, detection and quantification of analytes, interaction of electromagnetic radiation with molecules, as well as collection and processing of analytical signals will be presented.

**Prerequisite:** Doctoral standing in Chemistry.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CHEM 70195 ADVANCED TOPICS, ANALYTICAL 1-3 Credit Hours**

(Repeatable for credit) Advanced topics in analytical chemistry.

**Prerequisite:** Doctoral standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 1-3 lecture

**Grade Mode:** Standard Letter

**CHEM 70248 ADVANCED BIOLOGICAL CHEMISTRY 3 Credit Hours**

(Slashed with CHEM 40248 and CHEM 50248) Supra-molecular structures of DNA, advanced topics in DNA replication, recombination, damage and repair; gene transcription, Pre-RNA processing, mRNA translation, post-translational modifications on proteins; protein folding, protein splicing, sorting of proteins in different parts of the cells, and protein turn-over; cell signaling and cell cycle; and genetic diseases and their therapies.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CHEM 70254 BIOMEMBRANES 2 Credit Hours**

(Slashed with CHEM 60254) Biological membranes; composition, structure, dynamics and biogenesis; structure/function of protein mediated membrane transport.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**CHEM 70261 PRINCIPLES OF BIOCHEMISTRY I 3 Credit Hours**

(Slashed with CHEM 40261 and CHEM 50261) Introduction to biochemical principles regarding the structure and function of biomolecules including water, amino acids, proteins, carbohydrates and lipids; emphases on enzymes, membranes and bioenergetics.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CHEM 70262 PRINCIPLES OF BIOCHEMISTRY II 3 Credit Hours**

(Slashed with CHEM 40262 and CHEM 50262) Aspects of biochemistry focusing on information, chemical and energy flow, including: integration of metabolic pathways; DNA replication, repair, recombination and modification; transcription and translation; signal transduction, and post-translational modification.

**Prerequisite:** CHEM 50261 or CHEM 70261; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CHEM 70263 PHYSICAL BIOCHEMISTRY 3 Credit Hours**

(Slashed with CHEM 40263 and CHEM 50263) Principles and techniques of physical chemistry used in studying biomacromolecules and biological systems. Topics covered are thermodynamics, spectroscopy, structure and properties of biological molecules.

**Prerequisite:** Doctoral standing in Chemistry.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CHEM 70264 MEDICAL BIOCHEMISTRY 3 Credit Hours**

(Slashed with CHEM 40624 and CHEM 50624) The course provides an in-depth exploration of the biochemical basis for disease and its application to clinical medicine with an emphasis on new discoveries and other advances.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CHEM 70291 SEMINAR:RECENT DEVELOPMENTS IN BIOCHEMISTRY 1 Credit Hour**

(Repeatable for credit) Presentation and discussion of research papers from current biochemistry literature. Participation by students and faculty.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Seminar

**Contact Hours:** 1 other

**Grade Mode:** Standard Letter-IP

**CHEM 70295 ADVANCED TOPICS IN BIOCHEMISTRY 1-3 Credit Hours**

(Repeatable for credit) Advanced topics in biochemistry.

**Prerequisite:** Doctoral standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 1-3 lecture

**Grade Mode:** Standard Letter

**CHEM 70327 MODERN INORGANIC CHEMISTRY 3 Credit Hours**

(Slashed with CHEM 60327) Synthesis, structure and reactivity of inorganic compounds including transition metal and organometallic complexes.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CHEM 70352 INORGANIC MATERIALS CHEMISTRY 3 Credit Hours**

(Slashed with CHEM 40352 and CHEM 50352) Broad survey of the synthesis, properties, characterization and applications of inorganic materials.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CHEM 70365 BIOLOGICAL INORGANIC CHEMISTRY 3 Credit Hours**

(Slashed with CHEM 40365 and CHEM 50365) Physical methods, s-block metals, metal-induced stabilization, electron transfer proteins, oxidoreductases, hydrolases and lyases, metal transport and storage, nitrogenases, group-atom transfer and metals in medicine.

**Prerequisite:** CHEM 30301; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CHEM 70391 SEMINAR:RECENT DEVELOPMENTS IN INORGANIC CHEMISTRY 1 Credit Hour**

(Repeatable for credit) (Slashed with CHEM 60391) Presentation and discussion of research papers from current inorganic chemistry literature. Participation by students and faculty.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Seminar

**Contact Hours:** 1 other

**Grade Mode:** Standard Letter-IP

**CHEM 70395 ADVANCED TOPICS, INORGANIC 1-3 Credit Hours**

(Repeatable for credit) Advanced topics in inorganic chemistry.

**Prerequisite:** Doctoral standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 1-3 lecture

**Grade Mode:** Standard Letter

**CHEM 70451 ORGANIC MATERIALS CHEMISTRY 3 Credit Hours**

(Slashed with CHEM 40451 and CHEM 50451) Broad survey of the synthesis, properties characterization and applications of organic and polymeric materials.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CHEM 70472 ADVANCED ORGANIC CHEMISTRY-SYNTHETIC ASPECTS 3 Credit Hours**

(Slashed with CHEM 60472) Disconnection approach to organic synthesis. Modern methods for carbon-carbon bond formation and functional group interconversion, and their application to natural product synthesis. Doctoral standing.

**Prerequisite:** CHEM 30482.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CHEM 70473 STEREOSELECTIVE ORGANIC SYNTHESIS 3 Credit Hours**

(Slashed with CHEM 60473) Modern methods of asymmetric synthesis; introduction to selected methods for stereoselective N-heterocycle synthesis; application of these methods in natural product synthesis.

**Prerequisite:** CHEM 30482; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CHEM 70476 SPECTROSCOPIC IDENTIFICATION OF ORGANIC COMPOUNDS 2 Credit Hours**

(Slashed with CHEM 40476 and CHEM 50476) Strategies for structural elucidation of organic compounds from analysis of infrared, proton and carbon NMR, and mass spectrometric data through lectures and problem solving.

**Prerequisite:** CHEM 30482; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**CHEM 70478 SYNTHESIS OF ORGANIC LIQUID CRYSTALS 3 Credit Hours**

(Slashed with CHEM 40478 and CHEM 70478) Synthesis of organic thermotropic liquid crystals including nematic, smectic and discotic variants. Evaluation of the phase types using polarizing microscopy and DSC. Brief introduction into their use in display devices.

**Prerequisite:** CHEM 30482; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CHEM 70495 ADVANCED TOPICS, ORGANIC 1-3 Credit Hours**

(Repeatable for credit) Advanced topics in organic chemistry.

**Prerequisite:** Permission.

**Schedule Type:** Lecture

**Contact Hours:** 1-3 lecture

**Grade Mode:** Standard Letter



**CHEM 70541 ADVANCED PHYSICAL CHEMISTRY 3 Credit Hours**  
(Slashed with CHEM 60541) Covers basic materials of modern physical chemistry in two broad areas: thermodynamics and introductory quantum mechanics.

**Prerequisite:** CHEM 50556; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CHEM 70555 PHYSICAL CHEMISTRY I 3 Credit Hours**  
(Slashed with CHEM 40555 and CHEM 50555) Fundamental concepts of physical chemistry, with example problems chosen emphasizing applications in chemistry and the biological sciences.

**Prerequisite:** Doctoral standing in Chemistry.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CHEM 70556 PHYSICAL CHEMISTRY II 3 Credit Hours**  
(Slashed with CHEM 40556 and CHEM 50556) Fundamental concepts of physical chemistry of current interest. Included are biological and medical aspects of physical chemistry. Graduate credit given to nonchemistry and nonphysics majors and with permission to certain chemistry majors.

**Prerequisite:** CHEM 50555 or 70555; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CHEM 70557 PHYSICAL CHEMISTRY LABORATORY 2 Credit Hours**  
(Slashed with CHEM 40557 and CHEM 50557) Experiments in numerous areas of physical chemistry, including the interpretation and reporting of obtained experimental data correlation of results with theory and an introduction to the computer treatment of data.

**Prerequisite:** Doctoral standing.

**Pre/corequisite:** CHEM 70555 and CHEM 70556.

**Schedule Type:** Laboratory

**Contact Hours:** 4 lab

**Grade Mode:** Standard Letter

**CHEM 70559 NANOMATERIALS 3 Credit Hours**  
(Slashed with CHEM 40559 and CHEM 50559) Fundamental aspects of nanomaterials ranging from nanoparticles to three-dimensional (3D) nanostructures emphasizing their synthesis, chemistry and applications.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CHEM 70571 SURFACE CHEMISTRY 2 Credit Hours**  
(Slashed with CHEM 40571 and CHEM 50571) Treatment of basic principles and concepts in surface and colloid chemistry. Relationship to practical systems emphasized.

**Prerequisite:** CHEM 40555 or CHEM 40567; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**CHEM 70591 SEMINAR:RECENT DEVELOPMENTS IN PHYSICAL CHEMISTRY 1 Credit Hour**  
(Repeatable for credit) (Slashed with CHEM 60591) Presentation and discussion of research papers from current physical chemistry literature. Participation by students and faculty.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Seminar

**Contact Hours:** 1 other

**Grade Mode:** Standard Letter-IP

**CHEM 70595 ADVANCED TOPICS, PHYSICAL 1-3 Credit Hours**  
(Repeatable for credit) Advanced topics in physical chemistry.

**Prerequisite:** Doctoral standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 1-3 lecture

**Grade Mode:** Standard Letter

**CHEM 70894 COLLEGE TEACHING OF CHEMISTRY 1 Credit Hour**  
(Repeatable for credit) (Slashed with CHEM 60894) Experience in teaching of chemistry at college level.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 1 lecture

**Grade Mode:** Satisfactory/Unsatisfactory

**CHEM 71191 SEMINAR:PROBLEM SOLVING IN ANALYTICAL CHEMISTRY 1 Credit Hour**  
(Repeatable for credit) (Slashed with CHEM 61191) Problem solving in analytical chemistry, including chemical analysis methods, instrumentation, sample preparation, and data handling.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Seminar

**Contact Hours:** 1 other

**Grade Mode:** Standard Letter-IP

**CHEM 71491 SEMINAR:PROBLEM SOLVING IN ORGANIC CHEMISTRY 1 Credit Hour**  
(Repeatable for credit) (Slashed with CHEM 61491) Practical experience in the solving of current problems of synthesis, spectroscopy, and mechanism in organic chemistry.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Seminar

**Contact Hours:** 1 other

**Grade Mode:** Standard Letter-IP

**CHEM 72191 SEMINAR: ANALYTICAL CHEMISTRY 1 Credit Hour**  
(Repeatable for credit) (Slashed with CHEM 62191) Student and faculty presentations on topics in analytical chemistry.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Seminar

**Contact Hours:** 1 other

**Grade Mode:** Standard Letter-IP

**CHEM 72291 SEMINAR: BIOCHEMISTRY 1 Credit Hour**  
(Repeatable for credit) (Slashed with CHEM 62291) Student and faculty presentations on topics in biochemistry.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Seminar

**Contact Hours:** 1 other

**Grade Mode:** Standard Letter-IP

**CHEM 72391 SEMINAR:INORGANIC CHEMISTRY 1 Credit Hour**  
(Repeatable for credit) (Slashed with CHEM 62391) Student and faculty presentations on topics in inorganic chemistry.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Seminar

**Contact Hours:** 1 other

**Grade Mode:** Standard Letter-IP

**CHEM 72491 SEMINAR:ORGANIC CHEMISTRY 1 Credit Hour**  
(Repeatable for credit) (Slashed with CHEM 62491) Presentation of topics from the recent literature on aspects of organic chemistry including synthesis, spectroscopy, mechanism, and materials properties.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Seminar

**Contact Hours:** 1 other

**Grade Mode:** Standard Letter-IP

**CHEM 72591 SEMINAR:PHYSICAL CHEMISTRY 1 Credit Hour**  
(Repeatable for credit) (Slashed with CHEM 62591) Student and faculty presentations on topics in physical chemistry.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Seminar

**Contact Hours:** 1 other

**Grade Mode:** Standard Letter-IP

**CHEM 80199 DISSERTATION I 15 Credit Hours**  
(Repeatable for credit) Doctoral dissertation, for which registration in two semesters is required, first of which will be semester in which dissertation work is begun and continuing until the completion of 30 hours.

**Prerequisite:** Doctoral standing; and special approval.

**Schedule Type:** Dissertation

**Contact Hours:** 15 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**CHEM 80299 DISSERTATION II 15 Credit Hours**  
(Repeatable for credit) Continuing registration required of doctoral students who have completed the initial 30 hours of dissertation and continuing until all degree requirements are met.

**Prerequisite:** CHEM 80199; and doctoral standing.

**Schedule Type:** Dissertation

**Contact Hours:** 15 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**CHEM 80898 RESEARCH 1-15 Credit Hours**  
(Repeatable for credit) Research for doctoral students. Credits earned may be applied toward degree if department approves.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Research

**Contact Hours:** 1-15 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

## Department of Computer Science Computer Science (CS)

**CS 10001 COMPUTER LITERACY 3 Credit Hours**  
Introduction to history, language, procedures, applications, abuses and impact of computers. Hands-on experience with microcomputers. Not open to students with previous experience.

**Prerequisite:** None.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**CS 10051 INTRODUCTION TO COMPUTER SCIENCE (KMCR) 4 Credit Hours**

An introductory, broad and hands-on coverage of aspects of computer science, including algorithms, problem solving, operating systems concepts, computer architecture, programming languages and modern applications. Three-credit lecture with one-credit lab.

**Prerequisite:** None.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 3 lecture, 1 lab

**Grade Mode:** Standard Letter

**Attributes:** Kent Core Mathematics and Critical Reasoning

**CS 10062 PROGRAMMING FOR PROBLEM SOLVING IN SCIENCES 4 Credit Hours**

Solving problems in a science frequently requires a knowledge of programming. This course provides an introduction to using programs to solve problems. It is designed for majors and non-majors who have had little or no prior programming experience. The course emphasizes a hands-on, team-based approach to learning programming and problem solving.

**Prerequisite:** Minimum 55 ALEKS math score or minimum C grade in either MATH 11009 (or MATH 10772) or MATH 11010 (or MATH 10774 or MATH 10775 or MATH 10675).

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 3 lecture, 2 lab

**Grade Mode:** Standard Letter

**CS 13001 COMPUTER SCIENCE I: PROGRAMMING AND PROBLEM SOLVING 4 Credit Hours**

Computer science concepts, including algorithm development and problem-solving strategies focused on procedural abstraction. High-level programming concepts, including data types, expressions, program structures, functions, parameter passing, scope, extent, arrays, introduction to recursion and an introduction to object oriented-concepts.

**Prerequisite:** Minimum C grade in MATH 11010.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 3 lecture, 3 lab

**Grade Mode:** Standard Letter

**CS 13011 COMPUTER SCIENCE IA: PROCEDURAL PROGRAMMING 2 Credit Hours**

Computer science concepts, including algorithm development and problem-solving strategies focused on programming abstractions. High-level programming concepts, including variables, branching, iteration and functions.

**Prerequisite:** Minimum C grade in MATH 11010.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 1.5 lecture, 1.5 lab

**Grade Mode:** Standard Letter

**CS 13012 COMPUTER SCIENCE IB: OBJECT ORIENTED PROGRAMMING 2 Credit Hours**

Computer science concepts, including algorithm development and problem-solving strategies focused on programming abstractions. High-level programming concepts, including introduction to recursion and an introduction to object oriented-concepts.

**Prerequisite:** Minimum C grade in CS 13011.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 1.5 lecture, 1.5 lab

**Grade Mode:** Standard Letter

**CS 13401 USER LEVEL COMPUTER SECURITY 3 Credit Hours**

Introduction to computer and network safety; detection and removal of viruses, detection and defense against spyware and rootkits, firewall description and use, protection mechanisms against computer system hacking, spam, identity theft and phishing, protecting wireless networks, safe computing. Includes many in-lecture tutorials.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CS 19995 SPECIAL TOPICS IN COMPUTER SCIENCE 1-3 Credit Hours**

(Repeatable for credit)Special topics from all areas of computer science.

**Prerequisite:** Permission.

**Schedule Type:** Lecture

**Contact Hours:** 1-3 lecture

**Grade Mode:** Standard Letter

**CS 23001 COMPUTER SCIENCE II: DATA STRUCTURES AND ABSTRACTION 4 Credit Hours**

Advanced computer programming design, and development with a primary focus on data structures and abstraction using an object oriented programming language.

**Prerequisite:** Minimum C grade in CS 13001 or CS 13012.

**Corequisite:** CS 23022.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 3 lecture, 2 lab

**Grade Mode:** Standard Letter

**CS 23022 DISCRETE STRUCTURES FOR COMPUTER SCIENCE 3 Credit Hours**

(Cross-listed with MATH 23022) Discrete structures for computer scientists with a focus on: mathematical reasoning, combinatorial analysis, discrete structures, algorithmic thinking, applications and modeling. Specific topics include logic, sets, functions, relations, algorithms, proof techniques, counting, graphs, trees, Boolean algebra, grammars and languages.

**Prerequisite:** Minimum C grade in MATH 11009 or MATH 11010.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CS 23301 ROBOTICS AND EMBEDDED SYSTEMS LABORATORY I 1 Credit Hour**

This course provides a team based, hands-on introduction to linking and programming robotic and embedded systems. Students in this course work with junior and senior level students on projects building devices that require linking and programming robotic and embedded systems.

**Prerequisite:** Minimum C grade in CS 13001 or CS 13012.

**Schedule Type:** Laboratory

**Contact Hours:** 2 lab

**Grade Mode:** Standard Letter

**CS 23302 ROBOTICS AND EMBEDDED SYSTEMS LABORATORY II 2 Credit Hours**

This course is the second computer science course on linking and programming robotic and embedded systems in a team based, hands-on environment. Students in this course work with junior and senior level students on projects building devices that require linking and programming robotic and embedded systems.

**Prerequisite:** CS 23001 and CS 23301 with a minimum C grade.

**Schedule Type:** Laboratory

**Contact Hours:** 4 lab

**Grade Mode:** Standard Letter

**CS 27101 INTRODUCTION TO WEB INTERFACE DESIGN 3 Credit Hours**

Introduction to principles for the design and implementation of user-centered website interfaces, website interface evaluation, human computer interaction, effective data organization and manipulation and tools for website creation.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CS 29995 SPECIAL TOPICS IN COMPUTER SCIENCE 1-3 Credit Hours**

(Repeatable for credit)Special topics from all areas of computer science.

**Prerequisite:** Permission.

**Schedule Type:** Lecture

**Contact Hours:** 1-3 lecture

**Grade Mode:** Standard Letter

**CS 32301 HUMAN INTERFACE COMPUTING 3 Credit Hours**

Foundations of human computer interaction including interaction design. Foundations of graphics and visualization. Basic concepts in security and secure design including cryptography. Introduction to intelligent systems including basic knowledge representation and basic machine learning.

**Prerequisite:** Minimum C grade in CS 23001.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CS 33006 SOCIAL AND ETHICAL ISSUES IN COMPUTING (WIC) 3 Credit Hours**

Social issues, including historical and social context, professional responsibilities, risks and liabilities and intellectual property.

**Prerequisite:** Minimum C grade in CS 13001.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Writing Intensive Course

**CS 33007 INTRODUCTION TO DATABASE SYSTEM DESIGN 3 Credit Hours**

An introduction to the basic theoretical aspects of database systems, file organization, search methodologies, language design and performance evaluation techniques, initial modeling concepts and their use in hierarchical, network, relational and object-oriented database designs.

**Prerequisite:** Minimum C grade in CS 23001.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CS 33011 SPEED PROGRAMMING TECHNIQUES 3 Credit Hours**

Discussion and practice of pertinent aspects related to programming under time constraints.

**Prerequisite:** CS 23001.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**CS 33092 SPEED PROGRAMMING PRACTICUM (ELR) 2 Credit Hours**

(Repeatable for credit)Practice of pertinent aspects from CS 33011.

**Prerequisite:** CS 33011.

**Schedule Type:** Practical Experience

**Contact Hours:** 2 other

**Grade Mode:** Standard Letter

**Attributes:** Experiential Learning Requirement

**CS 33101 STRUCTURE OF PROGRAMMING LANGUAGES 3 Credit Hours**

Introduction to grammar, discrete and data structure concepts, syntax, semantics, abstraction, implementation model for imperative languages, dynamic memory management, type theory, concurrent programming, functional programming, logic programming, object oriented programming, event driven programming.

**Prerequisite:** Minimum C grade in CS 23001.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CS 33192 INTERNSHIP IN COMPUTER SCIENCE (ELR) 1-3 Credit Hours**

(Repeatable for credit for a maximum of 12 credit hours) Supervised work experience in computer science. Since this work will be outside the department a report and final presentation will be required; a site visit might also be necessary.

**Prerequisite:** Special approval.

**Schedule Type:** Practical Experience

**Contact Hours:** 3-9 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**Attributes:** Experiential Learning Requirement

**CS 33211 OPERATING SYSTEMS 3 Credit Hours**

Introduction to operating systems, processes and threads, CPU scheduling, mutual exclusion and synchronization, deadlock, memory management, file systems, security, networking and distributed systems and current topics. systems.

**Prerequisite:** Minimum C grade in CS 23001.

**Pre/corequisite:** CS 35101.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CS 33223 UNIX TOOLS 3 Credit Hours**

Course will cover UNIX operating system environment topics that will make the user more productive. Topics will include the user environment, shells, files, the file system, editors, scripting languages, document processing, processes, remote access and documentation.

**Prerequisite:** CS 13001.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CS 33301 EMBEDDED SYSTEM PROGRAMMING 3 Credit Hours**

Catalog Description (edited): An embedded system is a combination of computer hardware and software specifically designed for a particular function. Embedded systems have been playing important roles in various application areas such as industrial machines, automobiles, medical equipment, cameras, household appliances, air planes, vending machines, toys and other uses. Students will learn fundamental concepts of designing and programming embedded computer systems, including requirements specifications, architectural and detailed design, and implementation, focusing on real-time aspects of programming languages, operating system kernels, and hardware architectures.

**Prerequisite:** Minimum C grade in CS 23001.

**Corequisite:** CS 35101.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CS 33901 SOFTWARE ENGINEERING 3 Credit Hours**

An introduction to software engineering concepts: life cycle models; modeling languages; requirements analysis; specification; design; testing; validation; project management and maintenance.

**Prerequisite:** Minimum C grade in CS 23001.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CS 35101 COMPUTER ORGANIZATION 3 Credit Hours**

Computer system organization, including performance measures, instruction sets, computer arithmetic, central processing unit, pipelining, memory hierarchy, and parallel processors.

**Prerequisite:** Minimum C grade in CS 13001; or minimum C grade in the following courses CS 13011 and CS 13012.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CS 35201 COMPUTER COMMUNICATION NETWORKS 3 Credit Hours**

An introduction to net-centric systems, data communication protocols, network architectures, routing protocols, network management, congestion control, network security, compression techniques, mobile and wireless networks, and WWW as an example of a client-server system.

**Prerequisite:** Minimum C grade in CS 23001.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CS 38101 INTRODUCTION TO GAME PROGRAMMING 3 Credit Hours**

Game engine scripting, event driven and data driven programming, game engine data structures, basic game related graphics and AI concepts, a short game development project.

**Prerequisite:** Minimum C grade in CS 23001.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CS 39995 SPECIAL TOPICS IN COMPUTER SCIENCE 1-3 Credit Hours**

(Repeatable for credit) Special topics from all areas of computer science.

**Prerequisite:** Permission.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CS 41038 INTERMEDIATE LOGIC 3 Credit Hours**

(Cross-listed with MATH 41038 and MATH 51038 and PHIL 41038 and PHIL 51038) A detailed, systematic study of symbolic logic for philosophy majors, mathematics majors, computer science majors, and anyone else interested in advanced study in logic. The aim of the course is twofold: first, to develop a facility in understanding and using symbolic logic for various purposes, and second, to understand and appreciate symbolic logic as an area of study in itself. Topics include the distinction between syntactic, object-level proofs and semantic, meta-level proofs, the distinction between axiomatic systems and natural deduction systems of object-level proofs, various systems of modal logic, and some non-classical logics.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter



**CS 41045 METALOGIC 3 Credit Hours**

(Slashed with CS 51045; Cross-listed with MATH 41045 and MATH 51045 and PHIL 41045 and PHIL 51045) A detailed, systematic study of metalogic for philosophy majors, mathematics majors, computer science majors, and anyone else interested in advanced study in logic. Topics include the soundness and completeness of the propositional and predicate calculi, the decidability of propositional calculus, the undecidability of predicate calculus, Gödel's incompleteness proof for languages capable of expressing arithmetic, the co-extensionality of the set of general recursive functions, abacus computable functions, and Turing computable functions, and the philosophical motivations for the Church-Turing Thesis that all computable functions are Turing computable.

**Prerequisite:** PHIL 41038.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CS 42201 INTRODUCTION TO NUMERICAL COMPUTING I 3 Credit Hours**

An introduction to numerical methods and software for solving many common scientific computing problems. Linear systems, least-squares data fitting, nonlinear equations and systems and optimization problems.

**Prerequisite:** Minimum C grade in the following courses MATH 12003; and MATH 21001 or MATH 32051; and CS 10061 or CS 13001; or CS 13011 and CS 13012.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CS 42202 NUMERICAL COMPUTING II 3 Credit Hours**

(Cross-listed with CS 52202 and MATH 42202 and MATH 52202) A continuation of CS 42201. Topics include interpolation, numerical differentiation and integration, and numerical solution of ordinary differential equations.

**Prerequisite:** MATH 32044 or MATH 32052; and MATH 42201 or CS 42201.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CS 43006 THEORY OF OBJECT-ORIENTED PROGRAMMING 3 Credit Hours**

(Cross-listed with CS 53006) In depth course on the theory and principles of object-based and object-oriented programming using a language such as C++. The course covers advanced topics in inheritance and interface planning, generic (type independent) programming, factors of polymorphism, structure and organization of class libraries and object oriented design principles.

**Prerequisite:** CS 23001.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CS 43016 BIG DATA ANALYTICS 3 Credit Hours**

This course will introduce the state-of-art computing platforms with the focus on how to utilize them in processing (managing and analyzing) massive datasets. The course will utilize several key data processing tasks, including simple statistics, data aggregation, join processing, frequent pattern mining, data clustering, information retrieval, pagerank, and massive graph analytics as the case study for large scale data processing.

**Prerequisite:** CS 23001 with a minimum C grade.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CS 43105 DATA MINING TECHNIQUES 3 Credit Hours**

Concepts and techniques of data mining. Data mining is a process of discovering information from a set of large databases. This course takes a database perspective on data mining, covering a set of interesting topics, including association rule mining, clustering, classification, web mining, etc. It covers the basics of some important theoretical foundations for data mining, including linear regression, Bayesian inferences, information theory, and markov chain random walk.

**Prerequisite:** CS 33007.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CS 43111 STRUCTURE OF COMPILERS 3 Credit Hours**

(Cross-listed with CS 53111) Techniques used to write compilers including lexical analysis, syntax analysis, syntax-directed translation, type checking, run-time environments, and intermediate code generation.

**Prerequisite:** CS 35101 and 33101.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CS 43118 GRAPH AND SOCIAL NETWORK ANALYSIS 3 Credit Hours**

(Slashed with CS 53118 and CS 73118) Catalog Description: This course covers a number of important and useful ideas in graph databases, especially in social networks (e.g. the data model for certain-uncertain graphs), indexing over graphs, and query processing algorithms for graph databases (e.g., single-source path queries, path queries, reachability queries, keyword search queries, subgraph matching, etc.). The influence maximization problems over social networks in real applications are also discussed as well as various queries over the distributed graph database.

**Prerequisite:** CS 33007.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CS 43202 SYSTEMS ADMINISTRATION 3 Credit Hours**

(Cross-listed with CS 53202) The setting up and day-to-day administration of multiuser multitasking systems, such as the various versions of UNIX, together with the analysis of problems which can arise in these activities.

**Prerequisite:** CS 33211.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter



**CS 43203 SYSTEMS PROGRAMMING 3 Credit Hours**

(Slashed with CS 53203) The setting up and day-to-day administration of multiuser multitasking systems, such as the various versions of UNIX, together with the analysis of problems which can arise in these activities. Implementation and maintenance of system programs, system utilities, command interpreters, editors, file maintenance programs, text processors, interrupt handling, and device drivers.

**Prerequisite:** CS 23001 with a minimum C grade.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CS 43301 SOFTWARE DEVELOPMENT FOR ROBOTICS 3 Credit Hours**

(Slashed with CS 53301) Robots are being used in multiple places that are not easily accessible for humans to support the lack of available labor, to gain extra precision, and for cost effective manufacturing processes, monitoring, space exploration, precision surgery and artificial limb support for elderly and physically challenged persons. Computer science is an integral part of robotics as it includes areas such as computer algorithms, artificial intelligence, and image processing that are essential aspects of robotics. This first course on robotics will teach the students various motions of rigid robots, mathematics and algorithms related to these motions, motion planning, obstacle avoidance, intelligent path planning including use of various sensors.

**Prerequisite:** CS 23001 and CS 33301 with a minimum of C grade.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CS 43302 ALGORITHMIC ROBOTICS 3 Credit Hours**

(Slashed with CS 53302 and CS 73302) This course provides students theoretical, mathematical, and practical foundations for the design, analysis, and evaluation of algorithms for robots for diverse robotic applications. We will focus on a principled and mathematically sound approach to the design of algorithms for robots rather than ad hoc and hacking development approaches.

**Prerequisite:** CS 33301 and CS 43301.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CS 43303 INTERNET OF THINGS 3 Credit Hours**

(Slashed with CS 53303 and CS 73303) This course will provide a comprehensive understanding of the Internet of Things by looking into a variety of real-world application scenarios, existing and new technologies and architectures, communication protocols and standardization efforts, societal and behavioral changes, and how to apply these technologies to tackle real-world problems.

**Prerequisite:** CS 33301 or CS 45231.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CS 43305 ADVANCED DIGITAL DESIGN 3 Credit Hours**

(Slashed with CS 53305) This course describes techniques in the design of digital systems. Topics covered include combinational and sequential logic, gate-level minimization, registers and counters, memory and programmable logic, hardware description languages, digital communication including serial and parallel and synchronous and asynchronous methods.

**Prerequisite:** CS 23001 with a minimum C grade.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CS 43334 HUMAN-ROBOT INTERACTION 3 Credit Hours**

(Slashed with CS 53334 and CS 73334) Human-Robot Interaction (HRI) is the study of interactions between humans and robots dedicated to understanding, designing, and evaluating robotic systems for use by and with humans. HRI is a multidisciplinary field that incorporates human-computer interaction, artificial intelligence, robotics, natural language understanding, design, and social sciences. Interaction between humans and robots may take several forms, but are generally categorized by how close in proximity the humans and robots are to each other such as remote, proximate, and hybrid interaction. In the class, students will learn the fundamental technologies and theories in each category, and blend this knowledge with various case studies and lab activities.

**Prerequisite:** CS 33301 and CS 43301.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CS 43401 SECURE PROGRAMMING 3 Credit Hours**

Code vulnerabilities, static code analysis, error handling, secure I/O, race conditions and mediation, handling buffer and integer overflow, handling vulnerabilities in web and database programming, privacy and cryptography, random number generators.

**Prerequisite:** CS 23001 with a minimum C grade; and junior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CS 44001 COMPUTER SCIENCE III-PROGRAMMING PATTERNS 4 Credit Hours**

(Slashed with CS 54001) CS III Programming Patterns extends students' knowledge of object oriented programming, and improves their C++ programming skills. Specifically, it covers procedural and object-based programming, inheritance, polymorphism, popular design patterns, and generic programming.

**Prerequisite:** CS 23001 with a minimum C grade.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 3 lecture, 3 lab

**Grade Mode:** Standard Letter

**CS 44003 MOBILE APPS IN IOS PROGRAMMING 3 Credit Hours**

(Slashed with CS 54003) Students are introduced to mobile applications programming in the iOS environment using model, view, controller paradigms. Other topics include swift, programming using on board devices like GPS, cameras, motion detectors, and screen touches.

**Prerequisite:** CS 23001 with a minimum C grade.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CS 44004 DRONE PROGRAMMING 3 Credit Hours**

Course describes the design, programming and control of autonomous drones. Students will learn how to write apps to compute and control the drone's trajectories, including collision avoidance and object detection. Topics covered include system software and hardware architectures, use case models, interoperability, trajectory programming, communications protocols. Students will apply this knowledge in the context of programming assignments using drone simulator. Subsequently, students will develop apps to control autonomous drone vehicle.

**Prerequisite:** Minimum C grade in CS 35201.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CS 44105 WEB PROGRAMMING I 3 Credit Hours**

(Slashed with CS 54105) This course is the first of a two-course sequence on Web Programming covering from basic to advanced topics on Web Programming based on open standards and best practices. Topics covered include the HyperText Markup Language (HTML), specifying look and feel using Cascading Style Sheets (CSS), client side programming in Javascript, server side programming in PHP, and the Hypertext Transfer Protocol (HTTP).

**Prerequisite:** CS 23001 with a minimum C grade.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CS 44106 WEB PROGRAMMING II 3 Credit Hours**

(Slashed with CS 54106) This course is the second of a two-course sequence on Web Programming covering advanced topics on Web Programming based on open standards and best practices. This is a project course exploring advanced aspects of Web programming. Topics covered include advanced server side programming in PHP; database driven websites; structured query language (SQL) and MySQL; E-commerce; web hosting using Apache, PHP and MySQL; basic and digest authentication; web security, encryption and digital certificates; Extensible Markup Language (XML) for the web, AJAX and web services; scalable vector graphics (SVG); mobile websites.

**Prerequisite:** CS 44105.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CS 44201 ARTIFICIAL INTELLIGENCE 3 Credit Hours**

(Slashed with CS 54201) Examines goals, problems, concepts and methods of artificial intelligence, heuristic versus algorithmic methods, natural language comprehension, theorem proving.

**Prerequisite:** CS 23001.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CS 44901 SOFTWARE DEVELOPMENT PROJECT (ELR) (WIC) 4 Credit Hours**

With the supervision of the instructor, students will work in teams to design and implement a realistic software project similar to projects they would encounter in the workplace.

**Prerequisite:** CS 23001 with a minimum C grade; and junior standing.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 3 lecture, 3 lab

**Grade Mode:** Standard Letter

**Attributes:** Experiential Learning Requirement, Writing Intensive Course

**CS 44902 SOFTWARE REQUIREMENTS ENGINEERING 3 Credit Hours**

(Slashed with CS 54902) Students will learn a systematic approach to requirements elicitation, envisioning, requirements engineering, while leveraging design-based ideation and validation. Topics include software and systems requirements engineering, interface design and modeling, systems architecture, performance engineering, ethics, systems verification and testing.

**Prerequisite:** CS 33901.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CS 45102 CENTRAL PROCESSING UNIT (CPU) ARCHITECTURES 3 Credit Hours**

(Slashed with CS 55102) This course explores CPU architectures and concepts, focusing mostly on general purpose CPUs. It begins by examining the x86 architecture, the origins of reduced instruction set computers, and how those diverse concepts were reconciled. It looks at superscalar execution, out-of-order execution, branch prediction, and speculative execution, and their use in the Intel Pentium Pro and Pentium II. Finally, it concludes by exploring some contemporary CPU architectures such as embedded processors, graphics processors, and the open-source RISC-V architecture.

**Prerequisite:** CS 35101; and CS 23001 with a minimum C grade.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CS 45203 COMPUTER NETWORK SECURITY 3 Credit Hours**

(Slashed with CS 55203) Overview of network security including attacks and vulnerabilities and defense measures, secure network design, network and transport layers security, intrusion detection techniques, defense against denial of service attacks, network hardware, software, and applications attacks and their defense, security policies, legal and ethical issues in cyber and computer crimes.

**Prerequisite:** CS 35201 and; MATH 20011 or MATH 30011.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CS 45231 INTERNET ENGINEERING 3 Credit Hours**

Design fundamentals and working principles of internet systems at the IP layer and above. DNS, inter-domain routing, internet client server programming, application level protocols (HTTP, XML, etc.) web server architecture, browser internet security and multimedia serving.

**Prerequisite:** CS 23001, 33211 and 35201.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CS 46101 DESIGN AND ANALYSIS OF ALGORITHMS 3 Credit Hours**

(Slashed with CS 56101) Introduction to algorithmic concepts, design and complexity analysis of algorithms and data structures, searching, sorting, graph and string algorithms.

**Prerequisite:** MATH 12003 or MATH 12013; and minimum C grade in CS 23001.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CS 47101 COMPUTER GRAPHICS 3 Credit Hours**

Display file generation, interactive graphics techniques, display devices, three-dimensional graphics, graphic system design, graphic languages and applications in man-machine communications.

**Prerequisite:** CS 23001.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CS 47201 HUMAN COMPUTER INTERACTION 3 Credit Hours**

Approaches the human-computer interaction as an activity of the human whose productivity is increased by the use of the computer as a tool.

Examines physiology and psychology considers the structure and operation of the computer and models the interaction between the two.

**Prerequisite:** CS 23001.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CS 47205 INFORMATION SECURITY 3 Credit Hours**

(Slashed with CS 57205) An introduction to concepts and methodology useful for information security, as specified by the NSTISSI NO. 4011 standard from the NSA.

**Prerequisite:** CS 23001 with a minimum C grade.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CS 47206 DATA SECURITY AND PRIVACY 3 Credit Hours**

(Slashed with CS 57206) The goal of the course is to familiarize the students with basic concepts of security and privacy, their definitions, applications and current advances in research community and industry. This course addresses the security and privacy issues in legacy systems and also studies security and privacy policies and legislations. This course also reviews current research projects in the area of security and privacy.

**Prerequisite:** CS 23001 with a minimum C grade.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CS 47207 DIGITAL FORENSICS 3 Credit Hours**

(Slashed with CS 57207) This course addresses the need for digital forensics, best practices for general incidence response, legal aspects of forensics, tools and techniques to perform a full computer forensic investigation.

**Prerequisite:** CS 23001 with a minimum C grade.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CS 47221 INTRODUCTION TO CRYPTOLOGY 3 Credit Hours**

This is a course on the modern science of Cryptology; that is, the process of hiding information by converting it, through a reversible process, into something unrecognizable. Of course, only the recipient should be able to reverse the "hiding" or encrypting process. As far as usage in life is concerned, this course will help you to set up cryptosystems in many different environments. This skill is highly employable; from the NSA, to banks, to anybody who needs to encrypt information is looking for people with knowledge in Cryptology.

**Prerequisite:** CS 23001 with a minimum C grade.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CS 48101 GAME ENGINE CONCEPTS 3 Credit Hours**

Introduction to 3D game engine design, game memory management, multithreading in games, sprites and bitmap animation level design, path finding, audio-visual effects, AI and physical modeling in games, networked gaming.

**Prerequisite:** CS 23001 with a minimum C grade.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CS 48102 GAME DEVELOPMENT PRACTICUM (ELR) (WIC) 4 Credit Hours**

With the supervision of the instructor, students will work in teams to design and implement a computer game or 3D interactive learning environment using a game engine in a professional setup.

**Prerequisite:** CS 33007 and CS 33901 and CS 35201; and CS 48101 or CS 38101; and junior standing.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 3 lecture, 2 lab

**Grade Mode:** Standard Letter

**Attributes:** Experiential Learning Requirement, Writing Intensive Course

**CS 49995 SPECIAL TOPICS IN COMPUTER SCIENCE 1-4 Credit Hours**

(Repeatable for credit) (Slashed with CS 59995) Special topics from all areas of computer science.

**Prerequisite:** Special approval.

**Schedule Type:** Lecture

**Contact Hours:** 4 lecture

**Grade Mode:** Standard Letter

**CS 49996 INDIVIDUAL STUDY 1-4 Credit Hours**

(Repeatable for credit).

**Prerequisite:** Special approval.

**Schedule Type:** Individual Investigation

**Contact Hours:** 1-4 other

**Grade Mode:** Standard Letter

**CS 49998 RESEARCH (ELR) 1-15 Credit Hours**

(Repeatable for credit)

**Prerequisite:** Special approval.

**Schedule Type:** Research

**Contact Hours:** 1-15 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**Attributes:** Experiential Learning Requirement

**CS 49999 CAPSTONE PROJECT (ELR) (WIC) 4 Credit Hours**

The course is an integrative experience that brings together all components of the undergraduate computer science curriculum in an applied, hands-on real-world setting. The course is three-credits lecture and one-credit lab.

**Prerequisite:** CS 33007 and CS 33901 and CS 35201.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 4 other

**Grade Mode:** Standard Letter

**Attributes:** Experiential Learning Requirement, Writing Intensive Course

**CS 51045 METALOGIC 3 Credit Hours**

(Slashed with CS 41045; Cross-listed with MATH 41045 and MATH 51045 and PHIL 41045 and PHIL 51045) A detailed, systematic study of metalogic for philosophy majors, mathematics majors, computer science majors, and anyone else interested in advanced study in logic. Topics include the soundness and completeness of the propositional and predicate calculi, the decidability of propositional calculus, the undecidability of predicate calculus, Gödel's incompleteness proof for languages capable of expressing arithmetic, the co-extensionality of the set of general recursive functions, abacus computable functions, and Turing computable functions, and the philosophical motivations for the Church-Turing Thesis that all computable functions are Turing computable

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CS 52201 NUMERICAL COMPUTING I 3 Credit Hours**

(Slashed with CS 42201) (Cross-listed with MATH 42201 and MATH 52201) An introduction to numerical methods and software for solving many common scientific computing problems. Linear systems, least-squares data fitting, nonlinear equations and systems, and optimization problems.

**Prerequisite:** Graduate standing in Computer Science.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CS 52202 NUMERICAL COMPUTING II 3 Credit Hours**

(Slashed with CS 42202) (Cross-listed with MATH 42202 and MATH 52202) A continuation of CS 52201. Topics include interpolation, numerical differentiation and integration and numerical solution of ordinary differential equations.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CS 53006 THEORY OF OBJECT-ORIENTED PROGRAMMING 3 Credit Hours**

(Slashed with CS 43006) In-depth course on the theory and principles of object-based and object-oriented programming using a language such as C++. The course covers advanced topics in inheritance and interface planning, generic (type independent) programming, factors of polymorphism, structure and organization of class libraries, and object-oriented design principles.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CS 53111 STRUCTURE OF COMPILERS 3 Credit Hours**

(Slashed with CS 43111) Techniques used to write compilers including lexical analysis, syntax analysis, syntax directed translation, type checking, run-time environments and intermediate code generation.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CS 53118 GRAPH AND SOCIAL NETWORK ANALYSIS 3 Credit Hours**

(Slashed with CS 43118 and CS 73118) This course covers a number of important and useful ideas in graph databases, especially in social networks (e.g. the data model for certain-uncertain graphs), indexing over graphs, and query processing algorithms for graph databases (e.g., single-source path queries, path queries, reachability queries, keyword search queries, subgraph matching, etc.). The influence maximization problems over social networks in real applications are also discussed as well as various queries over the distributed graph databases.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CS 53202 SYSTEMS ADMINISTRATION 3 Credit Hours**

(Slashed with CS 43202) The setting up and day-to-day administration of multiuser multitasking systems, such as the various versions of UNIX together with the analysis of problems which can arise in these activities.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CS 53203 SYSTEMS PROGRAMMING 3 Credit Hours**

(Slashed with CS 43203) The setting up and day-to-day administration of multiuser multitasking systems, such as the various versions of UNIX, together with the analysis of problems which can arise in these activities. Implementation and maintenance of system programs, system utilities, command interpreters, editors, file maintenance programs, text processors, interrupt handling, and device drivers.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CS 53301 SOFTWARE DEVELOPMENT FOR ROBOTICS 3 Credit Hours**

(Slashed with CS 43301) Robots are being used in multiple places that are not easily accessible for humans, to support the lack of available labor, to gain extra precision, and for cost effective manufacturing processes, monitoring, space exploration, precision surgery and artificial limb support for elderly and physically challenged persons. Computer science is an integral part of robotics as it includes areas such as computer algorithms, artificial intelligence, and image processing that are essential aspects of robotics. This first course on robotics will teach the students various motions of rigid robots, mathematics and algorithms related to these motions, motion planning, obstacle avoidance, intelligent path planning including use of various sensors.

**Prerequisite:** Graduate standing.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CS 53302 ALGORITHMIC ROBOTICS 3 Credit Hours**

(Slashed with CS 43302 and CS 73302) This course provides students theoretical, mathematical, and practical foundations for the design, analysis, and evaluation of algorithms for robots for diverse robotic applications. We will focus on a principled and mathematically sound approach to the design of algorithms for robots rather than ad hoc and hacking development approaches.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter



**CS 53303 INTERNET OF THINGS 3 Credit Hours**

(Slashed with CS 43303 and CS 73303) This course will provide a comprehensive understanding of the Internet of Things by looking into a variety of real-world application scenarios, existing and new technologies and architectures, communication protocols and standardization efforts, societal and behavioral changes, and how to apply these technologies to tackle real-world problems.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CS 53305 ADVANCED DIGITAL DESIGN 3 Credit Hours**

(Slashed with CS 43305) This course describes techniques in the design of digital systems. Topics covered include combinational and sequential logic, gate-level minimization, registers and counters, memory and programmable logic, hardware description languages, digital communication including serial and parallel and synchronous and asynchronous methods.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CS 53334 HUMAN-ROBOT INTERACTION 3 Credit Hours**

(Slashed with CS 43334 and CS 73334) Human-Robot Interaction (HRI) is the study of interactions between humans and robots dedicated to understanding, designing, and evaluating robotic systems for use by and with humans. HRI is a multidisciplinary field that incorporates human-computer interaction, artificial intelligence, robotics, natural language understanding, design, and social sciences. Interaction between humans and robots may take several forms, but are generally categorized by how close in proximity the humans and robots are to each other such as remote, proximate, and hybrid interaction. In the class, students will learn the fundamental technologies and theories in each category, and blend this knowledge with various case studies and lab activities.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CS 53401 SECURE PROGRAMMING 3 Credit Hours**

Code vulnerabilities, static code analysis, error handling, secure I/O, race conditions and mediation, handling buffer and integer overflow, handling vulnerabilities in web and database programming, privacy and cryptography, random number generators.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CS 54001 COMPUTER SCIENCE III - PROGRAMMING PATTERNS 4 Credit Hours**

(Slashed with CS 44001) Extends students' knowledge of object oriented programming, and improves their C++ programming skills. Specifically, it covers procedural and object-based programming, inheritance, polymorphism, popular design patterns, and generic programming.

**Prerequisite:** Graduate standing.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 3 lecture, 3 lab

**Grade Mode:** Standard Letter

**CS 54003 MOBILE APPS IN IOS PROGRAMMING 3 Credit Hours**

Students are introduced to mobile applications programming in the iOS environment using model, view, controller paradigms. Other topics include swift, programming using on board devices like GPS, cameras, motion detectors, and screen touches.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CS 54105 WEB PROGRAMMING I 3 Credit Hours**

(Slashed with CS 44105) This course is the first of a two-course sequence on Web Programming covering from basic to advanced topics on Web Programming based on open standards and best practices. Topics covered include the HyperText Markup Language (HTML), specifying look and feel using Cascading Style Sheets (CSS), client side programming in Javascript, server side programming in PHP, and the Hypertext Transfer Protocol (HTTP).

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CS 54106 WEB PROGRAMMING II 3 Credit Hours**

(Slashed with CS 44106) This course is the second of a two-course sequence on Web Programming covering advanced topics on Web Programming based on open standards and practices. This is a project course exploring advanced aspects of Web programming. Topics covered include advanced server side programming in PHP; database driven websites; structured query language (SQL) and MySQL; E-commerce; web hosting using Apache, PHP MySQL; basic and digest authentication; web security, encryption and digital certificates; Markup Language (XML) for the web, AJAX and web services; scalable vector graphics (SVG); websites.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CS 54201 ARTIFICIAL INTELLIGENCE 3 Credit Hours**

(Slashed with CS 44201) Examines goals, problems, concepts and methods of artificial intelligence heuristic versus algorithmic methods, natural language comprehension, theorem proving.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter



**CS 54202 MACHINE LEARNING AND DEEP LEARNING 3 Credit Hours**

This course provides an overview of some fundamental concepts, techniques and algorithms in machine learning and deep learning, and will give students a basic understanding (ideas and intuitions) of how modern machine learning works. Specifically, there are three main objectives: 1. To help student get familiar with the fundamental mathematical tools (linear algebra, probability theory, statistical inference, numerical optimization, and learning theory) which lays the foundation of machine learning algorithms and techniques; 2. To introduce the core machine learning concepts and topics, such as linear regression, classification, SVM, and neural networks (and its deep variants); in addition, we will utilize the recommendation system for students to learn how real world machine system works; 3. Teach students how to program and use the latest machine learning packages, such as Tensorflow.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CS 54902 SOFTWARE REQUIREMENTS ENGINEERING 3 Credit Hours**

(Slashed with CS 44902) Students will learn a systematic approach to requirements elicitation, envisioning, requirements engineering, while leveraging design-based ideation and validation. Topics include software and systems requirements engineering, interface design and modeling, systems architecture, performance engineering, ethics, systems verification and testing.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CS 55102 CENTRAL PROCESSING UNIT (CPU) ARCHITECTURES 3 Credit Hours**

(Slashed with CS 45102) This course explores CPU architectures and concepts, focusing mostly on general purpose CPUs. It begins by examining the x86 architecture, the origins of reduced instruction set computers, and how those diverse concepts were reconciled. It looks at superscalar execution, out-of-order execution, branch prediction, and speculative execution, and their use in the Intel Pentium Pro and Pentium II. Finally, it concludes by exploring some contemporary CPU architectures such as embedded processors, graphics processors, and the open-source RISC-V architecture.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CS 55201 COMPUTER COMMUNICATION NETWORKS 3 Credit Hours**

An introduction to net-centric systems, data communication protocols, network architectures, routing protocols, network management, congestion control, network security, compression techniques, mobile and wireless networks, and WWW as an example of a client server system.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CS 55203 COMPUTER NETWORK SECURITY 3 Credit Hours**

(Slashed with CS 45203) Overview of network security including attacks and vulnerabilities and defense measures, secure network design, network and transport layers security, intrusion detection techniques, defense against denial of service attacks, network hardware, software, and applications attacks and their defense, security policies, legal and ethical issues in cyber and computer crimes.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CS 55231 INTERNET ENGINEERING 3 Credit Hours**

(Slashed with CS 45231) Design fundamentals and working principles of internet systems at the IP layer and above. DNS, inter-domain routing, internet client server programming, application level protocols (HTTP, XML, etc.) Web server architecture, browser, internet security, and multimedia serving.

**Prerequisite:** CS 23001 and CS 55201; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CS 56101 DESIGN AND ANALYSIS OF ALGORITHMS 3 Credit Hours**

(Slashed with CS 46101) Introduction to algorithmic concepts, design and complexity analysis of algorithms and data structures, searching, sorting, graph and string algorithms.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CS 57101 COMPUTER GRAPHICS 3 Credit Hours**

(Slashed with CS 47101) Display file generation, interactive graphics techniques, display devices, three-dimensional graphics, graphic system design, graphic languages and applications in man-machine communications.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CS 57201 HUMAN COMPUTER INTERACTION 3 Credit Hours**

(Slashed with CS 47201) Approaches the human-computer interaction as an activity of the human whose productivity is increased by the use of the computer as a tool. Examines physiology and psychology considers the structure and operation of the computer and models the interaction between the two.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CS 57205 INFORMATION SECURITY 3 Credit Hours**

(Slashed with CS 47205) An introduction to concepts and methodology useful for information security, as specified by the NSTISSI NO. 4011 standard from the NSA.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CS 57206 DATA SECURITY AND PRIVACY 3 Credit Hours**

(Slashed with CS 47206) The goal of the course is to familiarize the students with basic concepts of security and privacy, their definitions, applications and current advances in research community and industry. This course addresses the security and privacy issues in legacy systems and also studies security and privacy policies and legislations. This course also reviews current research projects in the area of security and privacy.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CS 57207 DIGITAL FORENSICS 3 Credit Hours**

(Slashed with CS 47207) This course addresses the need for digital forensics, best practices for general incidence response, legal aspects of forensics, tools and techniques to perform a full computer forensic investigation.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CS 57221 INTRODUCTION TO CRYPTOLOGY 3 Credit Hours**

(Slashed with CS 47221) This is a course on the modern science of Cryptology; that is, the process of hiding information by converting it, through a reversible process, into something unrecognizable. Of course, only the recipient should be able to reverse the "hiding" or encrypting process. As far as usage in life is concerned, this course will help you to set up cryptosystems in many different environments. This skill is highly employable; from the NSA, to banks, to anybody who needs to encrypt information is looking for people with knowledge in Cryptology.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CS 59893 VARIABLE TITLE WORKSHOP IN COMPUTER SCIENCE 1-6 Credit Hours**

(Repeatable for credit) Studies in special topics in computer science.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Workshop

**Contact Hours:** 1-6 other

**Grade Mode:** Satisfactory/Unsatisfactory

**CS 59995 SPECIAL TOPICS IN COMPUTER SCIENCE 1-3 Credit Hours**

(Repeatable for credit) (Slashed with CS 49995) Various special courses will be announced in the schedule of classes under this title.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 1-3 lecture

**Grade Mode:** Standard Letter

**CS 60093 VARIABLE TITLE WORKSHOP IN COMPUTER SCIENCE 1-3 Credit Hours**

(Repeatable for credit) Studies of special topics in computer science. Not acceptable for credit toward a graduate degree in computer science without approval of the student's adviser.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Workshop

**Contact Hours:** 1-3 other

**Grade Mode:** Satisfactory/Unsatisfactory

**CS 60094 COLLEGE TEACHING OF COMPUTER SCIENCE 1 Credit Hour**

(Repeatable for credit) (Slashed with CS 70094) Techniques and problems of college teaching of computer science. Student presentation of computer science papers will be included.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 1 lecture

**Grade Mode:** Standard Letter-S/U

**CS 61002 ALGORITHMS AND PROGRAMMING I 4 Credit Hours**

An introduction to the algorithms and tools used in computer science; includes programming in a high level language. This course may not be counted toward degree requirement in the CS Masters of Science degree or the CS Ph.D. degree.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 4 lecture

**Grade Mode:** Standard Letter

**CS 61003 ALGORITHMS AND PROGRAMMING II 4 Credit Hours**

Further exploration into the tools used in computer science. This course may not be counted toward degree requirements in the CS Masters of Science degree or the CS Ph.D. degree.

**Prerequisite:** CS 61002; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 4 lecture

**Grade Mode:** Standard Letter

**CS 61004 OPERATING SYSTEMS AND ARCHITECTURE 4 Credit Hours**

The fundamentals of computer operating systems and architecture design required for a Masters of Arts degree in computer science are presented. This course may not be counted towards the Masters of Science or the Doctoral programs in Computer Science.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 4 lecture

**Grade Mode:** Standard Letter

**CS 61092 PRACTICUM IN CS FOR INFORMATION ARCHITECTURE AND KNOWLEDGE MANAGEMENT 1-5 Credit Hours**

(Repeatable for credit) This course is an alternative to IAKM 60198 for students interested in pursuing a CS thesis. Credit for IAKM 60198 or any other project course is not allowed.

**Prerequisite:** Graduate standing.

**Schedule Type:** Practical Experience

**Contact Hours:** 1-5 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**CS 61199 THESIS I FOR INFORMATION ARCHITECTURE AND KNOWLEDGE MANAGEMENT 2-6 Credit Hours**

Thesis students must register for a minimum of 6 hours. No credit for CS students.

**Prerequisite:** Graduate standing.

**Schedule Type:** Masters Thesis

**Contact Hours:** 2-6 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**CS 61299 THESIS II FOR INFORMATION ARCHITECTURE AND KNOWLEDGE MANAGEMENT STUDENTS 2 Credit Hours**

Thesis students must continue registration each semester until all degree requirements are met.

**Prerequisite:** CS 61199.

**Schedule Type:** Masters Thesis

**Contact Hours:** 2 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**CS 62263 NUMERICAL SOLUTION OF LARGE SPARSE LINEAR SYSTEMS 3 Credit Hours**

(Slashed with CS 72263) (Cross-listed with MATH 62263 and MATH 72263) Construction and analysis of iterative methods for large systems of linear algebraic equations. Jacobi, Gauss-Seidel, SOR. Polynomial acceleration methods, conjugate gradients. Multi-grid methods.

**Prerequisite:** MATH 51021 and CS 52202; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CS 62264 NUMERICAL SOLUTION OF NONLINEAR SYSTEMS 3 Credit Hours**

(Slashed with CS 72264) (Cross-listed MATH 62264 and MATH 72264) Construction and analysis of numerical methods for systems of non linear algebraic equations and optimization problems. Numerical implementation and software.

**Prerequisite:** MATH 52041 and CS 52202; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CS 63005 ADVANCED DATABASE SYSTEMS DESIGN 3 Credit Hours**

(Slashed with CS 73005) Introduction to a variety of advanced database topics and on-going trends in modern database systems. The course includes advanced issues of object-oriented database, XML, advanced client server architecture and distributed database techniques.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CS 63015 DATA MINING TECHNIQUES 3 Credit Hours**

(Slashed with CS 73015) Concepts and techniques of data mining. Data mining is a process of discovering information from a set of large databases. This course takes a database perspective on data mining.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CS 63016 BIG DATA ANALYTICS 3 Credit Hours**

(Slashed with CS 73016) Introduces computing platforms with focus on how to use them in processing, managing and analyzing massive datasets. Utilizes several key data processing tasks, including simple statistics, data aggregation, join processing, frequent pattern mining, data clustering, information retrieval, pagerank and massive graph analytics as the case study for large scale data processing.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CS 63017 BIG DATA MANAGEMENT 3 Credit Hours**

This course will cover a series of important Big-Data-related problems and their solutions. Specifically, we will introduce the characteristics and challenges of the Big Data, state-of-the-art computing paradigm and platforms (e.g., MapReduce), big data programming tools (e.g., Hadoop and MongoDB), big data extraction and integration, big data storage, scalable indexing for big data, big graph processing, big data stream techniques and algorithms, big probabilistic data management, big data privacy, big data visualizations, and big data applications (e.g., spatial, finance, multimedia, medical, health, and social data).

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CS 63018 PROBABILISTIC DATA MANAGEMENT 3 Credit Hours**

(Slashed with CS 73018) This course addresses the fundamental concepts and techniques for probabilistic data management in the area of databases. Probabilistic data are pervasive in many real-world applications, such as sensor networks, GPS system, location-based services, mobile computing, multimedia databases, data extraction and integration, trajectory data analysis, semantic web, privacy preserving, and so on. This class also covers major research topics such as probabilistic or uncertain data models, probabilistic queries, probabilistic query answering techniques, and data quality issues in databases.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CS 63100 COMPUTATIONAL HEALTH INFORMATICS 3 Credit Hours**

(Slashed with CS 73100) The course describes computational techniques and software tools for managing and transmitting health related information and automated analysis of medical and biosignal data.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CS 63201 ADVANCED OPERATING SYSTEMS 3 Credit Hours**

(Slashed with CS 73201) Introduction to distributed systems, interprocess communication, distributed mutual exclusion, synchronization and deadlock, distributed process management and distributed file systems.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CS 63301 PARALLEL AND DISTRIBUTED COMPUTING 3 Credit Hours**

(Slashed with CS 73301) Overview of parallel and distributed computing; structuring parallel and distributed programs; parallel programming using SIMD, SPMD, MIMD and associative computing; parallel and distributed architecture using existing machines as case studies.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CS 63304 CLUSTER COMPUTING 3 Credit Hours**

(Slashed with CS 73304) This course will investigate clusters of computers as a computing platform, hardware and software trade-offs for clusters and application performance and programming of clusters.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CS 63305 MULTICORE COMPUTING 3 Credit Hours**

(Slashed with CS 73305) Starting about 2005, hardware architects began putting more than one processing core on a single chip, leading to the recent rapid advancements in multicore processor architectures. This shift has changed almost everything ranging from memory hierarchy and consistency to programming those architectures. The goal of this course is to study multicore processor architectures from the perspective of hardware, software and algorithm design, the challenges, and the technologies that are relevant to those architectures.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CS 63306 EMBEDDED COMPUTING 3 Credit Hours**

(Slashed with CS 73306) Computational issues structuring programs for processors embedded in other devices, such as those found in automobiles and biological and chemical sample processing devices.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CS 63901 SOFTWARE ENGINEERING METHODOLOGIES 3 Credit Hours**

(Slashed with CS 73901) Software process models; modeling languages; software process improvement; requirement analysis and elicitation; advanced systems and architectural design; estimation; verification and validation; reuse; and metrics.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CS 63902 SOFTWARE EVOLUTION 3 Credit Hours**

(Slashed with CS 73902) Methods and techniques supporting later lifecycle activities, including software testing and maintenance, reuse and reverse engineering.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CS 64201 ADVANCED ARTIFICIAL INTELLIGENCE 3 Credit Hours**

(Slashed with CS 74201) Additional topics in AI such as logic programming, advanced problem-solving systems, understanding natural languages, vision, learning, plan-generating systems.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CS 64301 PATTERN RECOGNITION PRINCIPLES 3 Credit Hours**

(Slashed with CS 74301) Introduction to mathematical pattern recognition, feature selection, distribution-free classification, statistical classification, nonsupervised learning, sequential learning and application.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CS 64401 IMAGE PROCESSING 3 Credit Hours**

(Slashed with CS 74401) This course covers digital processing of digital imagery. Digitization of TV imagery, noise removal, image enhancement, edge and texture detection, object recognition and scene analysis.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CS 64402 MULTIMEDIA SYSTEMS AND BIOMETRICS 3 Credit Hours**

(Slashed with CS 74402) This course discusses computational techniques for the fusion of multimedia data recorded by sensors for human-identification using automated analysis of biometric signals.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CS 65101 ADVANCED COMPUTER ARCHITECTURE 3 Credit Hours**

(Slashed with CS 75101) System performance measures, processor implementation, pipelining, system interconnection, memory hierarchy interrupts, stack architecture, vector and multiprocessors.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CS 65202 ADVANCED COMMUNICATION NETWORKS 3 Credit Hours**

(Slashed with CS 75202) This course covers central problems that confront network designers in high-speed networking such as real-time traffic, congestion control, quality of service (QoS), performance analysis, traffic management and internet routing.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CS 65203 WIRELESS AND MOBILE COMMUNICATION NETWORKS 3 Credit Hours**

(Slashed with CS 75203) Examines how wireless systems work and how mobile systems are supported by the underlying network infrastructure. Course covers the architecture and the interactions among different functional units in wireless and mobile systems.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter



**CS 65301 SYSTEM MODELING AND PERFORMANCE EVALUATION 3 Credit Hours**

(Slashed with CS 75301) Provides a detailed study of queuing, network models and their application to operating systems, computer time sharing and multi access systems.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CS 66101 ADVANCED TOPICS IN ALGORITHMS 3 Credit Hours**

(Slashed with CS 76101) Advanced algorithms, fast fourier transforms, algorithms on trees and graphs, rational and polynomial arithmetic, gcd, factoring, numerical and symbolic computational algorithms, Risch integration algorithm, pattern matching.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CS 66105 PARALLEL AND DISTRIBUTED ALGORITHMS 3 Credit Hours**

(Slashed with CS 76105) Introduces and evaluates important models of parallel (synchronous and asynchronous) and distributed computation, using basic searching, sorting, graph, matrix, numerical computing and computational geometry algorithms.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CS 66110 COMPUTATIONAL GEOMETRY 3 Credit Hours**

(Slashed with CS 76110) Geometric structures are the underlying model of several important applications, including robotics, graphics, CAD/CAM, VLSI layout, wireless networks and information visualization. Computational geometry studies algorithms for geometric problems.

**Prerequisite:** CS 56101; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CS 67101 ADVANCED COMPUTER GRAPHICS 3 Credit Hours**

(Slashed with CS 77101) In-depth study of active research topics in computer graphics. Topics include volume rendering, image-based rendering and modeling, graphics architectures, virtual reality, modeling in computer graphics, non-photorealistic rendering, computer animation and computer games.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CS 67301 SCIENTIFIC VISUALIZATION 3 Credit Hours**

(Slashed with CS 77301) Discusses the visualization of scientific, engineering and medical data sets. Introduces mechanisms to acquire sampled or computed data and points out methods to transform these data into the visual system.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CS 67302 INFORMATION VISUALIZATION 3 Credit Hours**

(Slashed with CS 77302) Information visualization is the science that unveils the underlying structure of data sets using visual representations that utilize the powerful processing capabilities of the human visual perceptual system. In this class, we will study algorithms and systems for visually exploring, understanding, and analyzing large, complex data sets. Information visualization focuses on abstract data such as symbolic, tabular, networked, hierarchical, or textual information sources. The objectives of the course are to learn the principles involved in information visualization and a variety of existing techniques and systems. The students will also gain backgrounds and skills that will aid the design of new, innovative visualizations in realistic applications.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CS 69098 RESEARCH 1-5 Credit Hours**

(Repeatable for credit) Research or individual investigation. Credits are applied toward degree requirements with approval if grade of 'S' is given.

**Prerequisite:** Graduate standing.

**Schedule Type:** Research

**Contact Hours:** 1-5 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**CS 69099 CAPSTONE PROJECT 3-6 Credit Hours**

The course is an integrative experience that brings together all components of the Masters nonthesis graduate program in an applied, hands-on real-world setting.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Project or Capstone

**Contact Hours:** 3-6 other

**Grade Mode:** Standard Letter-IP

**CS 69191 MASTER'S SEMINAR 1-2 Credit Hours**

(Repeatable for credit) Seminar for masters students to present and discuss computer science related research and academics. Masters students are required to take at least 2 credit hours for completion of degree and make at least one presentation of project work or research. Only two credits count towards the masters degree.

**Prerequisite:** Computer Science major within the Master of Arts or Master of Science degree.

**Schedule Type:** Seminar

**Contact Hours:** 1-2 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**CS 69192 GRADUATE INTERNSHIP 1-3 Credit Hours**

Supervised experience in the chosen graduate program. Since this work will be outside the department, a report and a final presentation will be required.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Practical Experience

**Contact Hours:** 1-3 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**CS 69199 THESIS I 2-6 Credit Hours**

Thesis student must register for total of 6 hours, 2 to 6 hours in a single semester distributed over several semesters if desired.

**Prerequisite:** Graduate standing.

**Schedule Type:** Masters Thesis

**Contact Hours:** 2-6 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP



**CS 69299 THESIS II 2 Credit Hours**

Thesis students must continue registration each semester until all degree requirements are met.

**Prerequisite:** CS 69199; and graduate standing.

**Schedule Type:** Masters Thesis

**Contact Hours:** 2 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**CS 69995 SPECIAL TOPICS IN COMPUTER SCIENCE 1-3 Credit Hours**

(Repeatable for credit) (Slashed with CS 79995) Special topics in computer science.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 1-3 lecture

**Grade Mode:** Standard Letter

**CS 70094 COLLEGE TEACHING OF COMPUTER SCIENCE 1 Credit Hour**

(Repeatable for credit) (Slashed with CS 60094) Techniques and problems of college teaching of computer science. Student presentation of computer science papers will be included.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 1 lecture

**Grade Mode:** Standard Letter-S/U

**CS 72263 NUMERICAL SOLUTION OF LARGE SPARSE LINEAR SYSTEMS 3 Credit Hours**

(Slashed with CS 62263) (Cross-listed with MATH 62263 and MATH 72263) Construction and analysis of iterative methods for large systems of linear algebraic equations. Jacobi, Gauss-Seidel, SOR. Polynomial acceleration methods, conjugate gradients. Multi-grid methods.

**Prerequisite:** MATH 51021 and CS 52202; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CS 72264 NUMERICAL SOLUTION OF NONLINEAR SYSTEMS 3 Credit Hours**

(Slashed with CS 62264) (Cross-listed with MATH 62264 and MATH 72264) Construction and analysis of numerical methods for systems of non linear algebraic equations and optimization problems. Numerical implementation and software.

**Prerequisite:** MATH 52041 and CS 52202; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CS 73005 ADVANCED DATABASE SYSTEMS DESIGN 3 Credit Hours**

(Slashed with CS 63005) Introduction to a variety of advanced database topics and on-going trends in modern database systems. The course includes advanced issues of object-oriented database, XML, advanced client server architecture and distributed database techniques.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CS 73015 DATA MINING TECHNIQUES 3 Credit Hours**

(Slashed with CS 63015) Concepts and techniques of data mining. Data mining is a process of discovering information from a set of large databases. This course takes a database perspective on data mining.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CS 73016 BIG DATA ANALYTICS 3 Credit Hours**

Introduces computing platforms with the focus on how to utilize them in processing, managing and analyzing massive datasets. The course will utilize several key data processing tasks, including simple statistics, data aggregation, join processing, frequent pattern mining, data clustering, information retrieval, pagerank, and massive graph analytics as the case study for large scale data processing.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CS 73017 BIG DATA MANAGEMENT 3 Credit Hours**

This course will cover a series of important Big-Data-related problems and their solutions. Specifically, we will introduce the characteristics and challenges of the Big Data, state-of-the-art computing paradigm and platforms (e.g., MapReduce), big data programming tools (e.g., Hadoop and MongoDB), big data extraction and integration, big data storage, scalable indexing for big data, big graph processing, big data stream techniques and algorithms, big probabilistic data management, big data privacy, big data visualizations, and big data applications (e.g., spatial, finance, multimedia, medical, health, and social data).

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CS 73018 PROBABILISTIC DATA MANAGEMENT 3 Credit Hours**

(Slashed with CS 63018) This course addresses the fundamental concepts and techniques for probabilistic data management in the area of databases. Probabilistic data are pervasive in many real-world applications, such as sensor networks, GPS system, location-based services, mobile computing, multimedia databases, data extraction and integration, trajectory data analysis, semantic web, and privacy preserving. This class also covers major research topics such as probabilistic or uncertain data models, probabilistic queries, probabilistic query answering techniques, and data quality issues in databases.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CS 73100 COMPUTATIONAL HEALTH INFORMATICS 3 Credit Hours**

(Slashed with CS 63100) The course describes computational techniques and software tools for managing and transmitting health related information and automated analysis of medical and biosignal data.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CS 73118 GRAPH SOCIAL NETWK ANALYSIS 3 Credit Hours**

(Slashed with CS 43118 and CS 53118) This course covers a number of important and useful ideas in graph databases, especially in social networks (e.g. the data model for certain-uncertain graphs), indexing over graphs, and query processing algorithms for graph databases (e.g., single-source path queries, path queries, reachability queries, keyword search queries, subgraph matching, etc.). The influence maximization problems over social networks in real applications are also discussed as well as various queries over the distributed graph database.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CS 73201 ADVANCED OPERATING SYSTEMS 3 Credit Hours**

(Slashed with CS 63201) Introduction to distributed systems, interprocess communication, distributed mutual exclusion, synchronization and deadlock, distributed process management and distributed file systems.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CS 73301 PARALLEL AND DISTRIBUTED COMPUTING 3 Credit Hours**

(Slashed with CS 63301) Overview of parallel and distributed computing; structuring parallel and distributed programs; parallel programming using simd spmd mimd and, associative computing parallel and distributed architecture using existing machines as case studies.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CS 73302 ALGORITHMIC ROBOTICS 3 Credit Hours**

(Slashed with CS 43302 and CS 53302) This course provides students theoretical, mathematical, and practical foundations for the design, analysis, and evaluation of algorithms for robots for diverse robotic applications. We will focus on a principled and mathematically sound approach to the design of algorithms for robots rather than ad hoc and hacking development approaches.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CS 73303 INTERNET OF THINGS 3 Credit Hours**

(Slashed with CS 43303 and CS 53303) This course will provide a comprehensive understanding of the Internet of Things by looking into a variety of real-world application scenarios, existing and new technologies and architectures, communication protocols and standardization efforts, societal and behavioral changes, and how to apply these technologies to tackle real-world problems.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CS 73304 CLUSTER COMPUTING 3 Credit Hours**

(Slashed with CS 63304) This course will investigate clusters of computers as a computing platform, hardware and software tradeoffs for clusters and application performance and programming of clusters.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CS 73305 MULTICORE COMPUTING 3 Credit Hours**

(Slashed with CS 63305) Starting about 2005, hardware architects began putting more than one processing core on a single chip, leading to the recent rapid advancements in multicore processor architectures. This shift has changed almost everything ranging from memory hierarchy and consistency to programming those architectures. The goal of this course is to study multicore processor architectures from the perspective of hardware, software, and algorithm design, the challenges, and the technologies that are relevant to those architectures.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CS 73306 EMBEDDED COMPUTING 3 Credit Hours**

(Slashed with CS 63306) Computational issues structuring programs for processors embedded in other devices such as those found in automobiles and biological chemical sample processing devices.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CS 73334 HUMAN-ROBOT INTERACTION 3 Credit Hours**

(Slashed with CS 43334 and CS 53334) Human-Robot Interaction (HRI) is the study of interactions between humans and robots dedicated to understanding, designing, and evaluating robotic systems for use by and with humans. HRI is a multidisciplinary field that incorporates human-computer interaction, artificial intelligence, robotics, natural language understanding, design, and social sciences. Interaction between humans and robots may take several forms, but are generally categorized by how close in proximity the humans and robots are to each other such as remote, proximate, and hybrid interaction. In the class, students will learn the fundamental technologies and theories in each category, and blend this knowledge with various case studies and lab activities.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CS 73901 SOFTWARE ENGINEERING METHODOLOGIES 3 Credit Hours**

(Slashed with CS 63901) Software process models; modeling languages; software process improvement; requirement analysis and elicitation; advanced systems and architectural design; estimation; verification and validation reuse; and metrics.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CS 73902 SOFTWARE EVOLUTION 3 Credit Hours**

(Slashed with CS 63902) Methods and techniques supporting later lifecycle activities, including software testing and maintenance reuse and reverse engineering.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CS 74201 ADVANCED ARTIFICIAL INTELLIGENCE 3 Credit Hours**

(Slashed with CS 64201) Additional topics in AI such as logic programming, advanced problem-solving systems, understanding natural languages, vision, learning, plan generating systems.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CS 74301 PATTERN RECOGNITION PRINCIPLES 3 Credit Hours**

(Slashed with CS 64301) Introduction to mathematical pattern recognition, feature selection, distribution-free classification, statistical classification, nonsupervised learning, sequential learning and application.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CS 74401 IMAGE PROCESSING 3 Credit Hours**

(Slashed with CS 64401) This course covers digital processing of digital imagery. Digitization of TV imagery, noise removal, image enhancement, edge and texture detection, object recognition and scene analysis.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CS 74402 MULTIMEDIA SYSTEMS AND BIOMETRICS 3 Credit Hours**

(Slashed with CS 64402) This course discusses computational techniques for fusion of multimedia data collected by sensors for human-identification using automated analysis of biometric signals.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CS 75101 ADVANCED COMPUTER ARCHITECTURE 3 Credit Hours**

(Slashed with CS 65101) System performance measures, processor implementation, pipelining, system interconnection, memory hierarchy interrupts, stack architecture, vector and multiprocessors.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CS 75202 ADVANCED COMMUNICATION NETWORKS 3 Credit Hours**

(Slashed with CS 65202) This course covers central problems that confront network designers in high-speed networking such as real-time traffic, congestion control, quality of service (QoS), performance analysis, traffic management and internet routing.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CS 75203 WIRELESS AND MOBILE COMMUNICATION NETWORKS 3 Credit Hours**

(Slashed with CS 65203) Examines how wireless systems work and how mobile systems are supported by the underlying network infrastructure. Course covers the architecture and the interactions among different functional units in wireless and mobile systems.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CS 75301 SYSTEM MODELING AND PERFORMANCE EVALUATION 3 Credit Hours**

(Slashed with CS 65301) Provides a detailed study of queuing, network models and their application to operating systems, computer time sharing and multi-access systems.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CS 76101 ADVANCED TOPICS IN ALGORITHMS 3 Credit Hours**

(Slashed with CS 66101) Advanced algorithms, fast Fourier transforms, algorithms on trees and graphs, rational and polynomial arithmetic, GCD, factoring, numerical and symbolic computational algorithms, Rischintegration algorithm, pattern matching.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CS 76105 PARALLEL AND DISTRIBUTED ALGORITHMS 3 Credit Hours**

(Slashed with CS 66105) Introduces and evaluates important models of parallel (synchronous and asynchronous) and distributed computation, using basic searching, sorting, graph, matrix, numerical computing and computational geometry algorithms.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CS 76110 COMPUTATIONAL GEOMETRY 3 Credit Hours**

(Slashed with CS 66110) Geometric structures are the underlying model of several important applications, including robotics, graphics, CAD/CAM, VLSI layout, wireless networks and information visualization. Computational geometry studies algorithms for geometric problems.

**Prerequisite:** CS 56101; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CS 77101 ADVANCED COMPUTER GRAPHICS 3 Credit Hours**

(Slashed with CS 67101) In-depth study of active research topics in computer graphics. Topics include volume rendering, image-based rendering and modeling, graphics architectures, virtual reality, modeling in computer graphics, non-photorealistic rendering, computer animation and computer games.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CS 77301 SCIENTIFIC VISUALIZATION 3 Credit Hours**

(Slashed with CS 67301) Discusses the visualization of scientific, engineering and medical data sets. Introduces mechanisms to acquire sampled or computed data and points out methods to transform these data into the visual system.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CS 77302 INFORMATION VISUALIZATION 3 Credit Hours**

(Slashed with CS 67302) Information visualization is the science that unveils the underlying structure of data sets using visual representations that utilize the powerful processing capabilities of the human visual perceptual system. In this class, we will study algorithms and systems for visually exploring, understanding, and analyzing large, complex data sets. Information visualization focuses on abstract data such as symbolic, tabular, networked, hierarchical, or textual information sources. The objectives of the course are to learn the principles involved in information visualization and a variety of existing techniques and systems. The students will also gain backgrounds and skills that will aid the design of new, innovative visualizations in realistic applications.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CS 79995 SPECIAL TOPICS IN COMPUTER SCIENCE 1-3 Credit Hours**

(Repeatable for credit) (Slashed with CS 69995) Special topics in computer science.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 1-3 lecture

**Grade Mode:** Standard Letter

**CS 89098 RESEARCH 1-15 Credit Hours**

(Repeatable for credit) Research or individual investigation for doctoral students who have not yet passed their candidacy examinations.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Research

**Contact Hours:** 1-15 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**CS 89191 DOCTORAL SEMINAR 1-2 Credit Hours**

(Repeatable for credit) Seminar for doctoral students to present and discuss computer science related research and academics. Doctoral students are required to take at least 3 credit hours for completion of degree and make at least two presentations of project work or research. Only two credits count towards the doctoral degree.

**Prerequisite:** Computer Science major within the Doctor of Philosophy degree.

**Schedule Type:** Seminar

**Contact Hours:** 1-2 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**CS 89199 DISSERTATION I 15 Credit Hours**

(Repeatable for credit) Doctoral dissertation, for which registration in at least two semesters is required, first of which will be semester in which dissertation work is begun and continuing until the completion of 30 hours.

**Prerequisite:** Doctoral standing; and special approval.

**Schedule Type:** Dissertation

**Contact Hours:** 15 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**CS 89299 DISSERTATION II 15 Credit Hours**

(Repeatable for credit) Continuing registration required for doctoral students who have completed the initial 30 hours of dissertation and continuing until all degree requirements are met.

**Prerequisite:** CS 89199; and doctoral standing.

**Schedule Type:** Dissertation

**Contact Hours:** 15 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**CS 89991 RESEARCH SEMINAR IN COMPUTER SCIENCE 1-3 Credit Hours**

(Repeatable for credit) Research seminar on current research in computer science.

**Prerequisite:** Doctoral standing; and special approval.

**Schedule Type:** Seminar

**Contact Hours:** 1-3 other

**Grade Mode:** Standard Letter

## Department of English

### English (ENG)

**ENG 01001 INTRODUCTION TO COLLEGE WRITING-STRETCH 3 Credit Hours**

Introduces the instruction and experiences necessary for students to acquire college-level literacy, with an emphasis on reading and writing college level texts. Course does not count toward graduation.

**Prerequisite:** ACT English score of 0-17; or SAT Evidence Based Reading and Writing score of 200-470; or WritePlacer score of 0-3; or Accuplacer Reading Comprehension score of 0-79 and WritePlacer score of 4.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ENG 02001 ESL WRITING LEVEL I 2 Credit Hours**

Introduction to the writing process. Review of basic syntactic and morphological patterns and sentence and paragraph organization.

Support of vocabulary development. Students are placed in appropriate course based on test score. Course does not count toward graduation.

**Prerequisite:** None (placement and registration done by the department).

**Schedule Type:** Lecture

**Contact Hours:** 2.33 lecture

**Grade Mode:** Standard Letter

**ENG 02002 ESL WRITING LEVEL II 2 Credit Hours**

Introduction to basic knowledge of sentence structure and development of ability to write with more sentence variety. Practice of standard paragraph format. Course does not count toward graduation.

**Prerequisite:** None (placement and registration done by the department).

**Schedule Type:** Lecture

**Contact Hours:** 2.33 lecture

**Grade Mode:** Standard Letter

**ENG 02003 ESL WRITING LEVEL III 2 Credit Hours**

Review and practice of writing narrative and descriptive paragraphs.

Analysis and self-correction; support of vocabulary expansion and practice of syntax of statements in paragraphs through relevant topics. Course does not count toward graduation.

**Prerequisite:** None (placement and registration done by the department).

**Schedule Type:** Lecture

**Contact Hours:** 2.33 lecture

**Grade Mode:** Standard Letter



**ENG 02004 ESL WRITING LEVEL IV 2 Credit Hours**

Development of narrative, descriptive and explanatory paragraphs into essays; practice of prewriting activities. Support of vocabulary expansion and focus on transitioning from simple to complex sentences in paragraphs. Course does not count toward graduation.

**Prerequisite:** None (placement and registration done by the department).

**Schedule Type:** Lecture

**Contact Hours:** 2.33 lecture

**Grade Mode:** Standard Letter

**ENG 02005 ESL WRITING LEVEL V 2 Credit Hours**

Introduction to the purpose, format and structure of an essay. Practice of narrative and explanatory essays. Course does not count toward graduation.

**Prerequisite:** None (placement and registration done by the department).

**Schedule Type:** Lecture

**Contact Hours:** 2.33 lecture

**Grade Mode:** Standard Letter

**ENG 02006 ESL WRITING LEVEL VI 2 Credit Hours**

Review and practice of the purpose, format and structure of an essay. Focus on response essays; practice of parallel constructions, quotations, and the use of outside sources. Course does not count toward graduation.

**Prerequisite:** None (placement and registration done by the department).

**Schedule Type:** Lecture

**Contact Hours:** 2.33 lecture

**Grade Mode:** Standard Letter

**ENG 02007 ESL WRITING LEVEL VII 2 Credit Hours**

Review of formatting and structuring essays. Practice of explanatory essays; focus on outlining, summarizing and citations; review of selected text-type specific grammatical features. Course does not count toward graduation.

**Prerequisite:** None (placement and registration done by the department).

**Schedule Type:** Lecture

**Contact Hours:** 2.33 lecture

**Grade Mode:** Standard Letter

**ENG 02101 ESL READING LEVEL I 2 Credit Hours**

Introduction to basic reading strategies such as recognizing and differentiating between main and supporting ideas; skimming and scanning and making inferences. Support of vocabulary development. Students will be placed in the appropriate course based on test score. Course does not count toward graduation.

**Prerequisite:** None (placement and registration done by the department).

**Schedule Type:** Lecture

**Contact Hours:** 2.33 lecture

**Grade Mode:** Standard Letter

**ENG 02102 ESL READING LEVEL II 2 Credit Hours**

Practice in basic reading strategies and development. Support of vocabulary development. Course does not count toward graduation.

**Prerequisite:** None (placement and registration done by the department).

**Schedule Type:** Lecture

**Contact Hours:** 2.33 lecture

**Grade Mode:** Standard Letter

**ENG 02103 ESL READING LEVEL III 2 Credit Hours**

Practice in reading strategies such as recognizing and differentiating between main and supporting ideas of paragraphs and entire texts; skimming and scanning and making inferences. Support of vocabulary development. Course does not count toward graduation.

**Prerequisite:** None (placement and registration done by the department).

**Schedule Type:** Lecture

**Contact Hours:** 2.33 lecture

**Grade Mode:** Standard Letter

**ENG 02104 ESL READING LEVEL IV 2 Credit Hours**

Practice of reading and summarizing strategies; skimming and scanning texts; support of vocabulary development. Course does not count toward graduation.

**Prerequisite:** None (placement and registration done by the department).

**Schedule Type:** Lecture

**Contact Hours:** 2.33 lecture

**Grade Mode:** Standard Letter

**ENG 02105 ESL READING LEVEL V 2 Credit Hours**

Practice of reading strategies; skimming and scanning; focus on inferences from background information and culturally specific references. Support of vocabulary development. Course does not count toward graduation.

**Prerequisite:** None (placement and registration done by the department).

**Schedule Type:** Lecture

**Contact Hours:** 2.33 lecture

**Grade Mode:** Standard Letter

**ENG 02106 ESL READING LEVEL VI 2 Credit Hours**

Practice of reading strategies; skimming and scanning texts; inferences in non-explicit contexts using background information. Culturally specific references and cultural schemata. Support of vocabulary development; strengthening awareness of word-formation. Course does not count toward graduation.

**Prerequisite:** None (placement and registration done by the department).

**Schedule Type:** Lecture

**Contact Hours:** 2.33 lecture

**Grade Mode:** Standard Letter

**ENG 02107 ESL READING LEVEL VII 2 Credit Hours**

Practice identifying communicative functions of texts; reading strategies such as recognizing and differentiating between main and supporting ideas; skimming and scanning. Support of vocabulary development. Course does not count toward graduation.

**Prerequisite:** None (placement and registration done by the department).

**Schedule Type:** Lecture

**Contact Hours:** 2.33 lecture

**Grade Mode:** Standard Letter

**ENG 02201 ESL LISTENING LEVEL I 2 Credit Hours**

Practice in basic listening strategies, including listening for detail and gist, key words, names, formal and informal forms of address, greetings and conversation endings, acceptance and refusals, etc. Students are placed in the appropriate course based on test scores. Course does not count toward graduation.

**Prerequisite:** None (placement and registration done by the department).

**Schedule Type:** Lecture

**Contact Hours:** 2.33 lecture

**Grade Mode:** Standard Letter



**ENG 02202 ESL LISTENING LEVEL II 2 Credit Hours**

Practice in basic listening strategies, including listening for detail and gist, key words, locations, numbers, acceptances and refusals, opinions, etc. as appropriate to level. Course does not count toward graduation.

**Prerequisite:** None (placement and registration done by the department).

**Schedule Type:** Lecture

**Contact Hours:** 2.33 lecture

**Grade Mode:** Standard Letter

**ENG 02203 ESL LISTENING LEVEL III 2 Credit Hours**

Practice in listening strategies through predicting, using background knowledge and contextual information in order to listen for detail and gist, key words, connecting themes; comparing and summarizing as well as note-taking as appropriate to level. Course does not count toward graduation.

**Prerequisite:** None (placement and registration done by the department).

**Schedule Type:** Lecture

**Contact Hours:** 2.33 lecture

**Grade Mode:** Standard Letter

**ENG 02204 ESL LISTENING LEVEL IV 2 Credit Hours**

Practice in listening strategies through predicting, using background knowledge and contextual information in order to listen for detail and gist, key words, emphasis, stance and speaker's feelings; comparing and summarizing as well as note-taking as appropriate to level. Course does not count toward graduation.

**Prerequisite:** None (placement and registration done by the department).

**Schedule Type:** Lecture

**Contact Hours:** 2.33 lecture

**Grade Mode:** Standard Letter

**ENG 02205 ESL LISTENING LEVEL V 2 Credit Hours**

Practice in listening strategies through predicting, using background knowledge and contextual information in order to listen for detail and gist, key words; comparing and summarizing as well as note-taking as appropriate to level. Course does not count toward graduation.

**Prerequisite:** None (placement and registration done by the department).

**Schedule Type:** Lecture

**Contact Hours:** 2.33 lecture

**Grade Mode:** Standard Letter

**ENG 02206 ESL LISTENING LEVEL VI 2 Credit Hours**

Practice in listening strategies through predicting, using background knowledge and contextual information; focus on detail and gist, key words, and meanings from stress, rhythm and intonation. Includes colloquial English. Course does not count toward graduation.

**Prerequisite:** None (placement and registration done by the department).

**Schedule Type:** Lecture

**Contact Hours:** 2.33 lecture

**Grade Mode:** Standard Letter

**ENG 02207 ESL LISTENING LEVEL VII 2 Credit Hours**

Practice in listening strategies through predicting, using background knowledge and contextual information; focus on detail and gist, key words, stance and speaker's feelings; comparing and summarizing as well as note-taking as appropriate to level. Course does not count toward graduation.

**Prerequisite:** None (placement and registration done by the department).

**Schedule Type:** Lecture

**Contact Hours:** 2.33 lecture

**Grade Mode:** Standard Letter

**ENG 02301 ESL SPEAKING LEVEL I 1 Credit Hour**

Development of basic speaking skills while processing verbal and nonverbal information in both formal and informal contexts. Focus on fluency building using simple sentences. Support of vocabulary building when receiving and producing oral messages. Students are enrolled in the appropriate course based on test score. Course does not count toward graduation.

**Prerequisite:** None (placement and registration done by the department).

**Schedule Type:** Lecture

**Contact Hours:** 1.4 lecture

**Grade Mode:** Standard Letter

**ENG 02302 ESL SPEAKING LEVEL II 1 Credit Hour**

Practice of basic speaking skills while processing verbal and nonverbal information in both formal and informal contexts. Focus on fluency building using simple sentences. Support of vocabulary building when receiving and producing oral messages as appropriate to level. Course does not count toward graduation.

**Prerequisite:** None (placement and registration done by the department).

**Schedule Type:** Lecture

**Contact Hours:** 1.4 lecture

**Grade Mode:** Standard Letter

**ENG 02303 ESL SPEAKING LEVEL III 1 Credit Hour**

Practices basic speaking skills while processing verbal and nonverbal information in both formal and informal contexts. Focus on fluency building using more complex sentences. Support of vocabulary building when receiving and producing oral messages as appropriate to level. Course does not count toward graduation.

**Prerequisite:** None (placement and registration done by the department).

**Schedule Type:** Lecture

**Contact Hours:** 1.4 lecture

**Grade Mode:** Standard Letter

**ENG 02304 ESL SPEAKING LEVEL IV 1 Credit Hour**

Practice of speaking skills while processing verbal and nonverbal information in both formal and informal contexts. Focus on fluency building using more complex sentences. Support of vocabulary building when receiving and producing oral messages as appropriate to level. Course does not count toward graduation.

**Prerequisite:** None (placement and registration done by the department).

**Schedule Type:** Lecture

**Contact Hours:** 1.4 lecture

**Grade Mode:** Standard Letter

**ENG 02305 ESL SPEAKING LEVEL V 1 Credit Hour**

Practice of speaking skills while processing verbal and nonverbal information in both formal and informal contexts. Focus on fluency building using more complex sentences and improvement in accuracy. Support of vocabulary building when receiving and producing oral messages as appropriate to level. Course does not count toward graduation.

**Prerequisite:** None (placement and registration done by the department).

**Schedule Type:** Lecture

**Contact Hours:** 1.4 lecture

**Grade Mode:** Standard Letter

**ENG 02306 ESL SPEAKING LEVEL VI 1 Credit Hour**

Practice of speaking skills while processing verbal and nonverbal information in both formal and informal contexts. Focus on fluency building using more complex sentences and improvement in accuracy. Support of vocabulary building when receiving and producing oral messages as appropriate to level. Course does not count toward graduation.

**Prerequisite:** None (placement and registration done by the department).

**Schedule Type:** Lecture

**Contact Hours:** 1.4 lecture

**Grade Mode:** Standard Letter

**ENG 02307 ESL SPEAKING LEVEL VII 1 Credit Hour**

Practice of speaking skills while processing verbal and nonverbal information in both formal and informal contexts. Focus on fluency building using more complex sentences and improvement in accuracy. Support of vocabulary building when receiving and producing oral messages as appropriate to level. Course does not count toward graduation.

**Prerequisite:** None (placement and registration done by the department).

**Schedule Type:** Lecture

**Contact Hours:** 1.4 lecture

**Grade Mode:** Standard Letter

**ENG 02401 ESL GRAMMAR LEVEL I 2 Credit Hours**

Introduction to word classes, especially verbs (including regular and irregular forms, tense and aspect, imperative), statement and question syntax, positive and negative clauses. Students are placed in appropriate course based on test score. Course does not count toward graduation.

**Prerequisite:** None (placement and registration done by the department).

**Schedule Type:** Lecture

**Contact Hours:** 2.33 lecture

**Grade Mode:** Standard Letter

**ENG 02402 ESL GRAMMAR LEVEL II 2 Credit Hours**

Application of word classes, especially verbs (including tense and aspect), modal verbs, gerunds and infinitives, nouns (count and non-count), adjectives and adverbs (comparison), statement and question syntax, positive and negative clauses. Course does not count toward graduation.

**Prerequisite:** None (placement and registration done by the department).

**Schedule Type:** Lecture

**Contact Hours:** 2.33 lecture

**Grade Mode:** Standard Letter

**ENG 02403 ESL GRAMMAR LEVEL III 2 Credit Hours**

Application of word classes, especially verbs and phrasal verbs (tense and aspect), present and future modal verbs, nouns and pronouns, as well as statement and question syntax, positive and negative clauses at appropriate level. Course does not count toward graduation.

**Prerequisite:** None (placement and registration done by the department).

**Schedule Type:** Lecture

**Contact Hours:** 2.33 lecture

**Grade Mode:** Standard Letter

**ENG 02404 ESL GRAMMAR LEVEL IV 2 Credit Hours**

Application of word classes, especially verbs and phrasal verbs (tense and aspect), gerunds and infinitives, nouns, articles, adjectives, adverbs, statement and question syntax, positive and negative clauses at appropriate level. Course does not count toward graduation.

**Prerequisite:** None (placement and registration done by the department).

**Schedule Type:** Lecture

**Contact Hours:** 2.33 lecture

**Grade Mode:** Standard Letter

**ENG 02405 ESL GRAMMAR LEVEL V 2 Credit Hours**

Application of word classes, especially verbs (tense and aspect), causal and phrasal verb syntax, verbal nouns, conjoiners, as well as statement and question syntax, positive and negative clauses and question tags as appropriate to level. Course does not count toward graduation.

**Prerequisite:** None (placement and registration done by the department).

**Schedule Type:** Lecture

**Contact Hours:** 2.33 lecture

**Grade Mode:** Standard Letter

**ENG 02406 ESL GRAMMAR LEVEL VI 2 Credit Hours**

Application of verb tenses and aspects, modality and passive voice, as well as clause structures and functions (noun clauses, adjective clauses) as appropriate to level. Course does not count toward graduation.

**Prerequisite:** None (placement and registration done by the department).

**Schedule Type:** Lecture

**Contact Hours:** 2.33 lecture

**Grade Mode:** Standard Letter

**ENG 02407 ESL GRAMMAR LEVEL VII 2 Credit Hours**

Application of verb tenses and aspects, passive voice, modal verbs, noun phrases, subject-verb agreement, clause structures and functions (interrogative clauses, noun clauses, adjective clauses) as appropriate to level. Course does not count toward graduation.

**Prerequisite:** None (placement and registration done by the department).

**Schedule Type:** Lecture

**Contact Hours:** 2.33 lecture

**Grade Mode:** Standard Letter

**ENG 02500 ESL PRONUNCIATION 1 Credit Hour**

(Repeatable for a maximum of 2 credit hours) Study of English pronunciation with practice in segmental and suprasegmental features (sounds, sound combinations, syllables, stress, rhythm, and intonation). Students are placed in the appropriate course based on test score. Course does not count toward graduation.

**Prerequisite:** None (placement and registration done by the department).

**Schedule Type:** Lecture

**Contact Hours:** 1.4 lecture

**Grade Mode:** Standard Letter

**ENG 11002 COLLEGE WRITING I-STRETCH (KCMP) 3 Credit Hours**

Continues the instruction and practice necessary to write for college, with emphasis on the reading, thinking, writing and technological skills necessary for writing college level texts.

**Prerequisite:** ENG 01001 with a minimum C grade; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Kent Core Composition, Transfer Module Composition

**ENG 11011 COLLEGE WRITING I (KCMP) 3 Credit Hours**

The study and practice of academic writing, including an introduction to rhetorical principles, the writing process, critical reading, research, and technology. Students with a GED Reasoning Through Language Arts score of 165 or higher need to contact the department for approval.

**Prerequisite:** ACT English score of 18-25; or SAT Evidence Based Reading and Writing score of 480-590; or Accuplacer Reading Comprehension score of 80 or higher and WritePlacer score of 4; or WritePlacer score 5 or higher.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Kent Core Composition, Transfer Module Composition

**ENG 12008 ESL WRITING LEVEL VIII 2 Credit Hours**

Review and practice of formatting and structuring essays depending on varying content and audience. Focus on persuasive and response essays; practice of outlining, summarizing and citation; review of selected text-type specific grammatical features.

**Prerequisite:** None (placement and registration done by the department).

**Schedule Type:** Lecture

**Contact Hours:** 2.33 lecture

**Grade Mode:** Standard Letter

**ENG 12009 ESL WRITING LEVEL IX 2 Credit Hours**

Review and practice of formatting and structuring essays for academic vs. non-academic purposes. Practice of paraphrasing, summarizing and citation; review of selected text-type specific grammatical features.

**Prerequisite:** None (placement and registration done by the department).

**Schedule Type:** Lecture

**Contact Hours:** 2.33 lecture

**Grade Mode:** Standard Letter

**ENG 12010 ESL WRITING LEVEL X 2 Credit Hours**

Review and practice of formatting and structuring essays for academic vs. non-academic purposes. Practice with cause and effect, compare and contrast and argumentation. Practice of paraphrasing, summarizing and citation and review of selected text-type specific grammatical features.

**Prerequisite:** None (placement and registration done by the department).

**Schedule Type:** Lecture

**Contact Hours:** 2.33 lecture

**Grade Mode:** Standard Letter

**ENG 12095 SPECIAL TOPICS IN ENGLISH AS SECOND LANGUAGE****1-2 Credit Hours**

(Repeatable for credit) Overview of skills related to a special topic in second language learning.

**Prerequisite:** None (placement and registration done by the department).

**Schedule Type:** Lecture

**Contact Hours:** 1.4-2.33 lecture

**Grade Mode:** Standard Letter

**ENG 12108 ESL READING LEVEL VIII 2 Credit Hours**

Practice identifying communicative functions of texts; practice reading strategies. Support of vocabulary development and extensive reading.

**Prerequisite:** None (placement and registration done by the department).

**Schedule Type:** Lecture

**Contact Hours:** 2.33 lecture

**Grade Mode:** Standard Letter

**ENG 12109 ESL READING LEVEL IX 2 Credit Hours**

Identifying communicative functions of texts; reading strategies; skimming and scanning. Support of vocabulary development and extensive reading.

**Prerequisite:** None (placement and registration done by the department).

**Schedule Type:** Lecture

**Contact Hours:** 2.33 lecture

**Grade Mode:** Standard Letter

**ENG 12110 ESL READING LEVEL X 2 Credit Hours**

Practice with communicative functions of texts; strategies for academic reading. Support of vocabulary development and extensive reading.

**Prerequisite:** None (placement and registration done by the department).

**Schedule Type:** Lecture

**Contact Hours:** 2.33 lecture

**Grade Mode:** Standard Letter

**ENG 12208 ESL LISTENING LEVEL VIII 2 Credit Hours**

Practice in listening strategies through predicting, using background knowledge and contextual information; focus on detail and gist, key words, stance and speaker's feelings; comparing and summarizing as well as note-taking and meanings from stress, rhythm and intonation as appropriate to level.

**Prerequisite:** None (placement and registration done by the department).

**Schedule Type:** Lecture

**Contact Hours:** 2.33 lecture

**Grade Mode:** Standard Letter

**ENG 12209 ESL LISTENING LEVEL IX 2 Credit Hours**

Practice in listening strategies through predicting, using background knowledge and contextual information; focus on detail and gist, key words, stance and schemata. Emphasis on listening for academic purposes; practice in note-taking.

**Prerequisite:** None (placement and registration done by the department).

**Schedule Type:** Lecture

**Contact Hours:** 2.33 lecture

**Grade Mode:** Standard Letter

**ENG 12210 ESL LISTENING LEVEL X 2 Credit Hours**

Practice in listening strategies through predicting, using background knowledge and contextual information; focus on detail and gist, key words, stance and schemata. Emphasis on listening for academic purposes; practice in note-taking.

**Prerequisite:** None (placement and registration done by the department).

**Schedule Type:** Lecture

**Contact Hours:** 2.33 lecture

**Grade Mode:** Standard Letter

**ENG 12308 ESL SPEAKING LEVEL VIII 1 Credit Hour**

Practice of speaking skills while processing verbal and nonverbal information in both formal and informal contexts. Focus on natural fluency and accuracy as well as pragmatic appropriateness. Support of vocabulary building when receiving and producing oral messages as appropriate to level.

**Prerequisite:** None (placement and registration done by the department).

**Schedule Type:** Lecture

**Contact Hours:** 1.4 lecture

**Grade Mode:** Standard Letter

**ENG 12309 ESL SPEAKING LEVEL IX 1 Credit Hour**

Practice of speaking skills while processing verbal and nonverbal information in both formal and informal contexts. Focus on natural fluency and accuracy as well as pragmatic appropriateness. Support of vocabulary building when receiving and producing oral messages as appropriate to level.

**Prerequisite:** None (placement and registration done by the department).

**Schedule Type:** Lecture

**Contact Hours:** 1.4 lecture

**Grade Mode:** Standard Letter

**ENG 12310 ESL SPEAKING LEVEL X 1 Credit Hour**

Practice of speaking skills while processing verbal and nonverbal information in both formal and informal contexts. Focus on natural fluency and accuracy as well as pragmatic appropriateness. Support of vocabulary building when receiving and producing oral messages as appropriate to level.

**Prerequisite:** None (placement and registration done by the department).

**Schedule Type:** Lecture

**Contact Hours:** 1.4 lecture

**Grade Mode:** Standard Letter

**ENG 12408 ESL GRAMMAR LEVEL VIII 2 Credit Hours**

Application of verb tenses and aspects, passive voice, modal verbs, gerunds and infinitives, coordinating conjunctions as well as clause structures and functions (noun clauses, adjective clauses, adverbial clauses) as appropriate to level.

**Prerequisite:** None (placement and registration done by the department).

**Schedule Type:** Lecture

**Contact Hours:** 2.33 lecture

**Grade Mode:** Standard Letter

**ENG 12409 ESL GRAMMAR LEVEL IX 2 Credit Hours**

Application of verb tenses and aspects, passive voice, nominals, interrogative syntax as well as clause structures and functions (dependent vs. independent clauses; reducing dependent clauses; conditional clauses) as appropriate to level.

**Prerequisite:** None (placement and registration done by the department).

**Schedule Type:** Lecture

**Contact Hours:** 2.33 lecture

**Grade Mode:** Standard Letter

**ENG 12410 ESL GRAMMAR LEVEL X 2 Credit Hours**

Application of verb tenses and aspects, passive voice, nominals, adverbials, interrogative syntax as well as clause structures and functions (dependent vs. independent clauses; clause reductions; conditional clauses) as appropriate to level.

**Prerequisite:** None (placement and registration done by the department).

**Schedule Type:** Lecture

**Contact Hours:** 2.33 lecture

**Grade Mode:** Standard Letter

**ENG 12507 ESL DEBATE 1 Credit Hour**

(Repeatable for a maximum of 2 credit hours) Practice of skills for persuasive speaking, making effective arguments and active listening. Engagement in formal and informal debates and presentations. Must score minimum level 7 on proficiency test.

**Prerequisite:** None (placement and registration done by the department).

**Schedule Type:** Lecture

**Contact Hours:** 1.4 lecture

**Grade Mode:** Standard Letter

**ENG 12508 ESL PUBLIC SPEAKING 1 Credit Hour**

(Repeatable for a maximum of 2 credit hours) Preparation for continued academic study and professional advancement, including effective techniques for speaking in public. Design and analysis of speeches and presentations. Must score minimum level 8 on proficiency test.

**Prerequisite:** None (placement and registration done by the department).

**Schedule Type:** Lecture

**Contact Hours:** 1.4 lecture

**Grade Mode:** Standard Letter

**ENG 12605 ESL AMERICAN CULTURE I 2 Credit Hours**

Overview of basic American values and beliefs related to history, immigration, diversity, and geography. Must score minimum level 5 on proficiency test.

**Prerequisite:** None (placement and registration done by the department).

**Schedule Type:** Lecture

**Contact Hours:** 2.33 lecture

**Grade Mode:** Standard Letter

**ENG 12606 ESL AMERICAN CULTURE II 2 Credit Hours**

Overview of basic American values and beliefs related to education, holidays, government and politics, the criminal justice system, America in the 21st century, etc. Must score minimum level 6 on proficiency test.

**Prerequisite:** None (placement and registration done by the department).

**Schedule Type:** Lecture

**Contact Hours:** 2.33 lecture

**Grade Mode:** Standard Letter

**ENG 12707 ESL BUSINESS ENGLISH I 2 Credit Hours**

Overview of business communication, business writing strategies, and computer skills in the workplace. Must score minimum level 7 on proficiency test.

**Prerequisite:** Special approval.

**Schedule Type:** Lecture

**Contact Hours:** 5 lecture

**Grade Mode:** Standard Letter

**ENG 12708 ESL BUSINESS ENGLISH II 2 Credit Hours**

Development of oral and written business communication skills.

**Prerequisite:** ENG 12707 with a minimum C- grade; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 5 lecture

**Grade Mode:** Standard Letter

**ENG 12801 ESL ACADEMIC SUCCESS 1 Credit Hour**

This class will provide transitional support for students preparing to enter an undergraduate or graduate course of study from the ESL Center. Students will focus on the social, cultural, and academic skills needed to be competent and successful in an American university setting including understanding university policies, academic expectations, and cultural norms.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 1 lecture

**Grade Mode:** Standard Letter

**ENG 20002 INTRODUCTION TO TECHNICAL WRITING 3 Credit Hours**

Introduction to communication practices within technical communities. Planning, drafting, revising and editing. Process descriptions, object descriptions, instructional texts, technical correspondence, problem reports, critical reflection.

**Prerequisite:** ACT English score of 26 or higher; or SAT Evidence Based Reading and Writing score of 600 or higher; or minimum C- grade in ENG 11002, ENG 11011 or HONR 10197.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ENG 20021 INTRODUCTION TO CREATIVE WRITING 3 Credit Hours**

Practice in various forms of creative writing with some emphasis on student interests and on sources of creativity.

**Prerequisite:** Minimum 26 ACT combined English/writing score; or minimum 600 SAT writing score; or ENG 11002, or ENG 11011 or HONR 10197.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter



**ENG 21001 INTRODUCTION TO ETHNIC LITERATURE OF THE UNITED STATES (DIVD) 3 Credit Hours**

Study of selected ethnic American writers; may include works by African, Asian, Hispanic, Jewish, Native Americans and other groups.

**Prerequisite:** Minimum 26 ACT combined English/writing score; or minimum 600 SAT writing score; or ENG 11002 or ENG 11011 or HONR 10197.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Diversity Domestic

**ENG 21002 INTRODUCTION TO WOMEN'S LITERATURE (DIVD) 3 Credit Hours**

Introduction to works by women writing in English, and to literary and gender issues they raise.

**Prerequisite:** Minimum 26 ACT combined English/writing score; or minimum 600 SAT writing score; or ENG 11002 or ENG 11011 or HONR 10197.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Diversity Domestic

**ENG 21003 INTRODUCTION TO LGBT LITERATURE (DIVD) 3 Credit Hours**

Introduction to lesbian, gay, bisexual and transgender literature in English and to issues of gender, sexuality and culture raised by this literature.

**Prerequisite:** ACT English score of 26 or higher; or SAT Evidence based Reading and Writing score of 600 or higher; or ENG 11002, ENG 11011, or HONR 10197.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Diversity Domestic

**ENG 21011 COLLEGE WRITING II (KCMP) 3 Credit Hours**

Continuation of college-level writing instruction with emphasis on research and inquiry, culminating in a lengthy written and/or multi-modal project.

**Prerequisite:** ACT English score of 26 or higher; or SAT Evidence Based Reading and Writing score of 600 or higher; or minimum C- grade in ENG 11002, ENG 11011, or HONR 10197.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Kent Core Composition, Transfer Module Composition

**ENG 21054 INTRODUCTION TO SHAKESPEARE (KHUM) 3 Credit Hours**

Study of representative plays and poems in the context of Shakespeare's age, his language and his cultural influence.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Kent Core Humanities, Transfer Module Humanities

**ENG 22071 GREAT BOOKS TO 1700 (KHUM) 3 Credit Hours**

Great works of world literature read in English, from ancient world to 1700, covering a wide range of ethnic and national voices, genres and traditions.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Kent Core Humanities, Transfer Module Humanities

**ENG 22072 GREAT BOOKS SINCE 1700 (KHUM) 3 Credit Hours**

Great works of world literature read in English, from 1700 to today, covering a wide range of ethnic and national voices, genres and traditions.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Kent Core Humanities, Transfer Module Humanities

**ENG 22073 MAJOR MODERN WRITERS: BRITISH AND UNITED STATES (KHUM) 3 Credit Hours**

Introduction to British and U.S. writers of the 20th and 21st centuries; study of their works in their literary and cultural contexts.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Kent Core Humanities, Transfer Module Humanities

**ENG 24001 INTRODUCTION TO LITERARY STUDY 3 Credit Hours**

Introduction to techniques for reading and writing about literature, with emphasis on reading strategies for prose, poetry and drama. Literary terms, composition of interpretive essays, and literary research is also studied.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ENG 24002 INTRODUCTION TO COMPOSITION THEORY 3 Credit Hours**

Provides an introduction to composition theory, research in writing studies and pedagogical practices for academic writing. Students learn different methods of teaching writing by producing essays and projects within different genres and by applying different approaches to composition to their own work. Students examine writing, as well as research and teaching about writing, as socially, politically and historically situated activities.

**Prerequisite:** ACT English score of 26 or higher; or SAT Evidence based Reading and Writing score of 600 or higher; or ENG 11002, ENG 11011 or HONR 10197.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter



**ENG 25001 LITERATURE IN ENGLISH I 3 Credit Hours**

British literature written before 1800 studied within a broad historical context. Comprehensive introduction to knowledge and skills that serve as a foundation for further study in literature.

**Prerequisite:** ACT English score of 26 or higher; or SAT Evidence based Reading and Writing score of 600 or higher; or ENG 11002, ENG 11011, or HONR 10197.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** TAG Arts and Humanities

**ENG 25002 LITERATURE IN ENGLISH II 3 Credit Hours**

British literature written since 1800 studied within a broad historical context. Comprehensive introduction to knowledge and skills that serve as a foundation for further study in literature.

**Prerequisite:** ACT English score of 26 or higher; or SAT Evidence Based Reading and Writing score of 600 or higher; or ENG 11002, ENG 11011, or HONR 10197.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** TAG Arts and Humanities

**ENG 25004 LITERATURE IN THE UNITED STATES I 3 Credit Hours**

U.S. literature from the colonial period until 1865 studies within a broad historical context. Comprehensive introduction to knowledge and skills that serve as a foundation for further study in literature.

**Prerequisite:** ACT English score of 26 or higher; or SAT Evidence Based Reading and Writing score of 600 or higher; or ENG 11002, ENG 11011, or HONR 10197.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** TAG Arts and Humanities

**ENG 25005 LITERATURE IN THE UNITED STATES II 3 Credit Hours**

U.S. literature from 1865 to the present studied within a broad historical context. Comprehensive introduction to knowledge and skills that serve as a foundation for further study in literature.

**Prerequisite:** ACT English score of 26 or higher; or SAT Evidence based Reading and Writing score of 600 or higher; or ENG 11002, ENG 11011, or HONR 10197.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** TAG Arts and Humanities

**ENG 26001 POPULAR FORMS OF LITERATURE 3 Credit Hours**

Introduction to popular forms of literature such as the western, the detective story, science fiction, fantasy, the war story and others.

**Prerequisite:** Minimum 26 ACT combined English/writing score; or minimum 600 SAT writing score; or ENG 11002; or ENG 11011; or HONR 10197.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ENG 26095 SOPHOMORE SPECIAL TOPICS 3 Credit Hours**

(Repeatable for credit) In-depth study of a particular writer, theme or literary movement, such as literature and film, gothic novels.

**Prerequisite:** ACT English score of 26 or higher; or SAT Evidence based Reading and Writing score of 600 or higher; or ENG 11002, ENG 11011, or HONR 10197.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ENG 30001 ENGLISH STUDIES (WIC) 3 Credit Hours**

Writing about and reading in a variety of texts and critical modes as an introduction to critical thinking and writing. Emphasis on the application of principles and methods of literary study to selected texts.

**Prerequisite:** ENG 21011 or HONR 10297.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Writing Intensive Course

**ENG 30050 WRITING AND RHETORIC IN A DIGITAL AGE 3 Credit Hours**

Writing course with a focus on learning and using a variety of tools available within contemporary digital composing environments.

**Prerequisite:** ENG 21011 or HONR 10297.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ENG 30051 WRITING, RHETORIC AND NEW MEDIA 3 Credit Hours**

Rhetorical principles for multimodal writing to produce rhetorically effective professional, scholarly, personal, and civic texts that integrate some blend of written word, visuals, images, audio and video.

**Prerequisite:** ENG 21011 or HONR 10297.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ENG 30052 MEDICAL AND SCIENTIFIC WRITING 3 Credit Hours**

Explores the communication principles and practices which occur in medical, health scientific, and scientific contexts. Students gain extensive individual and collaborative practice in writing about medicine and science for diverse audiences.

**Prerequisite:** ENG 21011 or HONR 10297.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ENG 30061 WRITING IN BUSINESS 2 Credit Hours**

Introduces students to writing practices in business settings, helping students to understand several of the ways that business writing differs from academic writing. Students learn practical skills related to addressing audience expectations relative to the purpose of the message, applying appropriate formats to business documents, integrating graphics commonly used in business documents, and using principles of rhetoric to convey a message effectively and concisely.

**Prerequisite:** ENG 21011 and COMM 15000 and BUS 10123; and special approval.

**Corequisite:** BUS 30061.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**ENG 30062 PRINCIPLES OF TECHNICAL WRITING 3 Credit Hours**

Introduces theoretical principles of technical communication. Extensive practice in the use, evaluation and production of complex technical documents including research reports/research proposals. Emphasis on oral, written and electronic communication.

**Prerequisite:** Minimum C- grade in ENG 21011 or HONR 10297.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ENG 30063 PROFESSIONAL WRITING 3 Credit Hours**

Practice norms and strategies of effective workplace communication.

**Prerequisite:** Minimum C- grade in ENG 21011 or HONR 10297; and junior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** TAG Business

**ENG 30064 ARGUMENTATIVE PROSE WRITING 3 Credit Hours**

Practice in writing argumentative essays, with emphasis on discussion of student work.

**Prerequisite:** Minimum C- grade in ENG 21011 or HONR 10297.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ENG 30065 EXPOSITORY PROSE WRITING 3 Credit Hours**

Practice in prose composition with emphasis on exposition and discussion of student work.

**Prerequisite:** ENG 21011 or HONR 10297.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ENG 30066 WRITING IN THE PUBLIC SPHERE (ELR) 3 Credit Hours**

Writing course focusing on a multimodal service-learning project collaborating with peer and community partners in an online, hybrid or face-to-face delivery system.

**Prerequisite:** Minimum C- grade in ENG 21011 or HONR 10297.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Experiential Learning Requirement

**ENG 30067 FICTION WRITING I 3 Credit Hours**

Instruction and practice in writing fiction with specific models and discussions of student work on a weekly basis.

**Prerequisite:** ENG 20021.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ENG 30068 FICTION WRITING II 3 Credit Hours**

Continued instruction and practice in writing of fiction with specific models and discussion of student work on a weekly basis.

**Prerequisite:** ENG 30067.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ENG 30069 POETRY WRITING I 3 Credit Hours**

Instruction in and practice of writing poetry with specific models and discussion of student work on a weekly basis.

**Prerequisite:** ENG 20021.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ENG 30070 POETRY WRITING II 3 Credit Hours**

Continued practice in writing of poetry with specific models and discussion of student work on a weekly basis.

**Prerequisite:** ENG 30069.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ENG 30071 CREATIVE NONFICTION 3 Credit Hours**

Instruction and practice in writing creative nonfiction with specific models and discussions of student work on a weekly basis.

**Prerequisite:** Minimum C grade in ENG 21011 or HONR 10297.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ENG 30072 EDITING AND PUBLISHING I 3 Credit Hours**

Provides students with an overview of the editing and publishing industry. Provides practice, instruction, and feedback on document editing and book production and publishing.

**Prerequisite:** ENG 21011 or HONR 10297.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ENG 30073 EDITING AND PUBLISHING II 3 Credit Hours**

Builds on the skills acquired in ENG 30072 through proofreading and copyediting exercises based on the Chicago Manual of Style. Emphasis on topics such as document design and production, fact-checking, working within social media, and editing work written by others.

**Prerequisite:** ENG 30072.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ENG 30074 GRAMMAR FOR EDITING 3 Credit Hours**

Course focuses on editing practices that require knowledge of the rules of grammar, usage, and stylistic conventions in a variety of professional fields.

**Prerequisite:** ENG 21011 or HONR 10297.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ENG 30095 JUNIOR SPECIAL TOPICS 3 Credit Hours**

(Repeatable for credit)An opportunity to focus on important issues in literature, writing, criticism or cultural studies.

**Prerequisite:** Junior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ENG 31001 FUNDAMENTAL ENGLISH GRAMMAR 3 Credit Hours**  
Study of grammatical structures and matters of usage and style in edited U.S. English.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ENG 31002 HISTORY OF THE ENGLISH LANGUAGE 3 Credit Hours**

Study of the development of the English language from the Indo-European period to the present.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ENG 31003 LINGUISTICS 3 Credit Hours**

Survey of language study including linguistic tools of analysis such as phonetics, morphology and syntax, and selected topics in applied linguistics.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ENG 31004 LEXICOLOGY/LEXICOGRAPHY 3 Credit Hours**

In-depth study of the lexicon in language use and the reasons for its expansion and continuous change. Study of tools in lexicography and analysis of the role of lexicography in language education.

**Prerequisite:** ENG 31003.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ENG 31005 CHILD SECOND LANGUAGE ACQUISITION 3 Credit Hours**

Explores theory, research and teaching/learning applications of second language acquisition in children.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ENG 31006 WORLD ENGLISHES (DIVG) (WIC) 3 Credit Hours**

Explores English varieties in the context of world languages, examining language politics with a focus on first/second language education and literacy in an electronic age.

**Prerequisite:** ENG 21011 or HONR 10297.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Diversity Global, Writing Intensive Course

**ENG 31007 PEDAGOGY FOR TEACHING ENGLISH AS A SECOND LANGUAGE 3 Credit Hours**

Theoretical bases, approaches, techniques of second language pedagogy at the elementary and secondary levels. Inquiry into English as a Second Language methods, materials and lesson planning.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ENG 31008 GRAMMAR FOR TEACHING ENGLISH AS A SECOND/ FOREIGN LANGUAGE 3 Credit Hours**

Introduces students to grammars of spoken and written English and pedagogical grammar. Topics include parts of speech, tense and aspect, clause and phrase types, grammar in genre and pedagogical applications relevant to the English as a second/foreign language profession.

**Prerequisite:** ENG 31001.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ENG 31009 ADULT SECOND LANGUAGE ACQUISITION 3 Credit Hours**

Explores theory, research, teaching, and learning applications of second language acquisition in adult populations.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ENG 31012 GENDER AND LANGUAGE 3 Credit Hours**

This course applies linguistic concepts to examine gendered language in written and oral discourse, focusing on the definition of gender and how we experience it in our lives.

**Prerequisite:** ENG 21011 or HONR 10297.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ENG 31095 SPECIAL TOPICS IN LINGUISTICS 3 Credit Hours**

(Repeatable for credit) Study of specific topics in linguistics such as sociolinguistics, phonetics and phonology or bi- and multi-lingualism.

**Prerequisite:** ENG 21011 or HONR 10297.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ENG 32001 CHILDREN'S LITERATURE 3 Credit Hours**

Survey of children's literature from Mother Goose rhymes and picture books through modern realistic fiction.

**Prerequisite:** ACT English score of 26 or higher; or SAT Evidence based Reading and Writing score of 600 or higher; or ENG 11002, ENG 11011, or HONR 10197.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ENG 32002 LITERATURE FOR YOUNG ADULTS 3 Credit Hours**

Study of literature appropriate to young adults.

**Prerequisite:** ACT English score of 26 or higher; or SAT Evidence based Reading and Writing score of 600 or higher; or ENG 11002, ENG 11011, or HONR 10197.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ENG 33001 U.S. LITERATURE TO 1865 3 Credit Hours**

U.S. literary themes, genres and authors studied in their historical and cultural contexts. Selections from the Colonial period through the Civil War.

**Prerequisite:** ENG 21011 or HONR 10297.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ENG 33002 U.S. LITERATURE FROM 1865 TO 1945 3 Credit Hours**

U.S. literary themes, genres and authors studied in their historical and cultural contexts. Selections from the close of the Civil War through World War II.

**Prerequisite:** ENG 21011 or HONR 10297.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ENG 33003 U.S. LITERATURE FROM 1945 TO PRESENT 3 Credit Hours**

U.S. literary themes, genres and authors studied in their historical and cultural contexts. Selections from the close of World War II to the present.

**Prerequisite:** ENG 21011 or HONR 10297.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ENG 33010 AFRICAN-AMERICAN LITERATURE TO 1900 3 Credit Hours**

(Cross-listed with PAS 32001) Study of African-American literature from its beginning to 1900, including such writers as Wheatley, J. Hammon, Terry, B. Hammon, Jones, Marrant, Allen, Hall, Walker, Truth, Garnet, Douglass, Delany, Harper, Stewart, Turner, Jacobs, Keckley, Brown, Wilson, Griggs, Chesnut and Dunbar.

**Prerequisite:** ENG 21011 or HONR 10297.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ENG 33012 MODERN AFRICAN-AMERICAN LITERATURE 3 Credit Hours**

(Cross-listed with PAS 32002) Study of African-American literature from the early twentieth century to the present. The authors include Toomer, Hughes, Larsen, Wright, Baldwin, Hansberry, Jones, Lorde, Walker, Morrison, Mosley, Youngblood and Carter.

**Prerequisite:** ENG 21011 or HONR 10297.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ENG 33013 PAN-AFRICAN WOMEN'S LITERATURE (DIVG) 3 Credit Hours**

(Cross-listed with PAS 37100) Introduces students to literary works by African and Caribbean women.

**Prerequisite:** ENG 11011.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Diversity Global

**ENG 33014 AFRICAN-AMERICAN WOMEN'S LITERATURE 3 Credit Hours**

(Cross-listed with PAS 37200) Introduces students to literary works by African-American women.

**Prerequisite:** ENG 11011.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ENG 33015 AFRICAN LITERATURES (DIVG) 3 Credit Hours**

(Cross-listed with PAS 32050) Examines works of major 20th-century African, African American and Caribbean writers and intellectuals.

Authors include Niane, Achebe, Emecheta, Prince, Hurston, Hughes, Césaire, Senghor, Soyinka and many others.

**Prerequisite:** ENG 11011 or HONR 10197.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Diversity Global

**ENG 34001 MEDIEVAL LITERATURE 3 Credit Hours**

Medieval literary themes, genres, and authors studied in their historical and cultural contexts. Selections from Anglo-Saxon and Middle English literature.

**Prerequisite:** ENG 21011 or HONR 10297.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ENG 34002 BRITISH LITERATURE, 1500-1660 3 Credit Hours**

British literary themes, genres and authors studied in their historical and cultural contexts. Selections from Renaissance and Reformation literature through the English Civil War.

**Prerequisite:** ENG 21011 or HONR 10297.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ENG 34003 BRITISH LITERATURE, 1660-1800 3 Credit Hours**

British literary themes, genres and authors studied in their historical and cultural contexts. Selections from Restoration, Augustan and early Romantic literature.

**Prerequisite:** ENG 21011 or HONR 10297.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ENG 34004 BRITISH LITERATURE, 1800-1900 3 Credit Hours**

British literary themes, genres and authors studied in their historical and cultural contexts. Selections from Romantic and Victorian literature.

**Prerequisite:** ENG 21011 or HONR 10297.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ENG 34005 BRITISH AND IRISH LITERATURE, 1900-PRESENT 3 Credit Hours**

British and Irish literary themes, genres and authors studied in their historical and cultural contexts. Selections from modern and post modern literature.

**Prerequisite:** ENG 21011 or HONR 10297.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ENG 34011 WORLD LITERATURE IN ENGLISH (DIVG) 3 Credit Hours**

An examination of selected writings in English by postcolonial authors from Africa, Asia, the Caribbean and other parts of the world.

**Prerequisite:** ENG 21011 or HONR 10297.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Diversity Global

**ENG 34021 WOMEN'S LITERATURE (DIVD) 3 Credit Hours**

Critical and theoretical consideration of gender issues concerning British and U.S. women writers studied in their historical and cultural contexts.

**Prerequisite:** ENG 21011 or HONR 10297.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Diversity Domestic

**ENG 34031 SHORT STORY 3 Credit Hours**

Critical analysis of short stories written by important world authors. Selections include stories originally written in English and stories translated into English.

**Prerequisite:** ENG 21011 or HONR 10297.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ENG 34041 FAIRY TALES 3 Credit Hours**

Study of classic fairy tales by Perrault, Grimms, Andersen and others as fundamental texts of Western culture worthy of literary criticism.

**Prerequisite:** ENG 21011 or HONR 10297.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ENG 34055 SHAKESPEARE 3 Credit Hours**

Study of plays representing Shakespeare's entire career, including Henry IV parts I and II, The Merchant of Venice, Measure for Measure, Hamlet, Othello and The Tempest.

**Prerequisite:** ENG 21011 or HONR 10297.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ENG 34065 CHAUCER 3 Credit Hours**

Close study of Chaucer's Canterbury Tales, with some attention to courtly poems and/or selected lyrics.

**Prerequisite:** ENG 21011 or HONR 10297.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ENG 34090 SHAKESPEARE IN PERFORMANCE 3 Credit Hours**

Course is designed around a field-trip to the American Shakespeare Center in Staunton, Va., during which students attend performances of plays and participate in workshops. Students also attend at least one performance of an early modern play staged in Northeastern Ohio. Students formally study all the plays before attending performances of them.

**Prerequisite:** ENG 21011 or HONR 10297.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ENG 34095 SPECIAL TOPICS:MAJOR AUTHOR STUDIES 3 Credit Hours**

(Repeatable for credit when topics varies) Intensive study of one or more authors from the English-speaking world.

**Prerequisite:** ENG 21011 or HONR 10297.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ENG 35101 LITERATURE AND OTHER DISCIPLINES 3 Credit Hours**

Study of literature in relation to, or from the standpoint of, another discipline such as psychoanalysis, psychology, religion, theology, music and painting.

**Prerequisite:** ENG 21011 or HONR 10297.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ENG 35201 THE BIBLE AS LITERATURE 3 Credit Hours**

Study of Bible as a great book subject to literary criticism and as a main document of Western culture. Old and New Testaments read.

**Prerequisite:** ENG 21011 or HONR 10297.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ENG 35301 LESBIAN, GAY, BISEXUAL AND TRANSGENDER: CRITICAL PERSPECTIVES (DIVD) 3 Credit Hours**

Study of theory, language and other aspects of lesbian, gay, bisexual and transgendered literature and culture.

**Prerequisite:** ENG 21011 or HONR 10297.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Diversity Domestic

**ENG 35401 SCIENCE FICTION 3 Credit Hours**

Study of the origins, history, themes and major works of science fiction drawn from a variety of national literatures, as well as the adaptation of literary works into film, television, graphic novels, video games, and other forms.

**Prerequisite:** ENG 21011 or HONR 10297.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ENG 36001 APPLIED LITERARY CRITICISM 3 Credit Hours**

Advanced, reading-intensive course in the reading and interpretation of literary scholarship, with emphasis on published scholarly analysis. Primary and secondary texts vary, depending on the specialization of the instructor.

**Prerequisite:** ENG 21011 or HONR 10297; and junior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ENG 37001 CLASSICAL RHETORIC 3 Credit Hours**

Ancient approaches to rhetoric studied in their historical and cultural contexts. Selections from Greek and Roman thinkers such as the Sophists, Plato, Aristotle, Cicero and Quintilian.

**Prerequisite:** ENG 21011 or HONR 10297.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ENG 37101 CRITICAL RHETORICAL STUDIES OF TEXTS IN CONTEXT 3 Credit Hours**

Students learn critical annalistic methods and apply them to written texts, examining the rhetorical function of their linguistic elements and their relationship to rhetorical contexts.

**Prerequisite:** ENG 21011 or HONR 10297.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter



**ENG 38001 CRITICAL THEORY AND READING 3 Credit Hours**

Introduction to major interpretive paradigms in literary studies, from American New Criticism to the present, with emphasis on strategies for analyzing poetry, drama and narrative fiction.

**Prerequisite:** ENG 21011 or HONR 10297; and ENG 24001.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ENG 38002 RHETORIC AND WRITING STUDIES 3 Credit Hours**

Introduction to theories and scholarship that have shaped the disciplinary study of rhetoric and writing, including key figures and concepts from classical and modern rhetoric that continue to influence contemporary writing scholarship and pedagogy.

**Prerequisite:** ENG 21011 or HONR 10297; and ENG 24001.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ENG 38895 SPECIAL TOPICS IN WRITING 3 Credit Hours**

(Repeatable for credit) Topics vary with an emphasis on writing may. Topics include editing, publishing and grammar.

**Prerequisite:** ENG 21011 or HONR 10297.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ENG 39095 SPECIAL TOPICS IN LITERARY HISTORY 3 Credit Hours**

(Repeatable for credit) Topics vary in the study of selected literary histories such as the travel narrative, the fairy tale, the detective story and postcolonial literature.

**Prerequisite:** ENG 21011 or HONR 10297.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ENG 39195 SPECIAL TOPICS IN DRAMA 3 Credit Hours**

(Repeatable for credit) Study of selected topics, themes, or periods in drama such as gender construction, obsession or medieval drama.

**Prerequisite:** ENG 21011 or HONR 10297.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ENG 39295 SPECIAL TOPICS IN POETRY 3 Credit Hours**

(Repeatable for credit) Study of selected topics in poetry such as poetic form, historical and cultural contexts and artistic movements.

**Prerequisite:** ENG 21011 or HONR 10297.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ENG 39395 SPECIAL TOPICS IN FICTION 3 Credit Hours**

(Repeatable for credit) Study of selected topics in fiction such as the autobiographical novel, the novella and the short story.

**Prerequisite:** ENG 21011 or HONR 10297.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ENG 39495 SPECIAL TOPICS IN COMPARATIVE LITERATURE 3 Credit Hours**

(Repeatable for credit) Study of selected topics in comparative literature such as movements and genres in world literature and the interrelationships of the arts.

**Prerequisite:** ENG 21011 or HONR 10297.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ENG 39595 SPECIAL TOPICS IN LITERARY CRITICISM 3 Credit Hours**

(Repeatable for credit) Study of selected topics in literary criticism such as reader response criticism, psychoanalytic methodologies or Marxist approaches.

**Prerequisite:** ENG 21011 or HONR 10297.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ENG 39695 SPECIAL TOPICS IN ETHNIC LITERATURE OF THE UNITED STATES 3 Credit Hours**

(Repeatable for credit) Study of selected topics in ethnic literature such as the literature of one ethnic group, race and ethnicity in U.S. culture.

**Prerequisite:** ENG 21011 or HONR 10297.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ENG 39795 SPECIAL TOPICS IN WOMEN'S LITERATURE 3 Credit Hours**

(Repeatable for credit) Study of selected topics in women's literature organized around literary, historical and theoretical issues.

**Prerequisite:** ENG 21011 or HONR 10297.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ENG 39895 SPECIAL TOPICS IN RHETORIC, COMPOSITION AND WRITING 3 Credit Hours**

(Repeatable for credit) Study of selected topics in rhetoric, composition and writing such as historical and contemporary studies of political and professional discourse.

**Prerequisite:** ENG 21011 or HONR 10297.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ENG 39995 SPECIAL TOPICS CULTURAL STUDIES 3 Credit Hours**

(Repeatable for credit) Study of selected topics in cultural studies organized around a particular mode or methodology of cultural analysis.

**Prerequisite:** ENG 21011 or HONR 10297.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ENG 40099 WRITING PORTFOLIO (ELR) 2 Credit Hours**

Directed practice in constructing a portfolio of original writing, which may be creative, expository, technical, or preprofessional in nature.

**Prerequisite:** Creative Writing minor or Professional and Technical Writing minor; and junior standing.

**Schedule Type:** Senior Project/Honors Thesis

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter-IP

**Attributes:** Experiential Learning Requirement

**ENG 41001 SOCIOLINGUISTICS IN SCHOOLING (DIVD) (WIC) 3 Credit Hours**

Examines the interactions between society and language. Explores pedagogical implications of language variation.

**Prerequisite:** ENG 21011 or HONR 10297.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Diversity Domestic, Writing Intensive Course

**ENG 41003 LANGUAGE CURRICULUM, MATERIALS AND ASSESSMENT 3 Credit Hours**

Advanced inquiry into English as a Second Language teaching methods, curriculum design, and materials selection, use and design. Assessment of learners in a student-centered ESL or language curriculum.

**Prerequisite:** ENG 31007.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ENG 41009 STUDENT TEACHING (ELR) 9 Credit Hours**

(Slashed with ENG 51009) Full-time student teaching over 13 weeks in English as a Second Language in grades P-12. Background check by the Bureau of Criminal Investigation and Identification (BCII) and Federal Bureau of Investigation (FBI) required to be presented to authorized personnel at the assigned school-agency before the first day of student teaching. To be enrolled in the course, students must have official valid certification of child safety training, approved basic life support and ALICE training presented to the campus office of clinical experience.

**Prerequisite:** CULT 29535 and EPSY 29525 and ETEC 39525; and eligibility for student teaching and special approval.

**Corequisite:** ENG 41525.

**Schedule Type:** Practical Experience

**Contact Hours:** 27.733 other

**Grade Mode:** Satisfactory/Unsatisfactory

**Attributes:** Experiential Learning Requirement

**ENG 41092 ESL PRACTICUM IN INTENSIVE ENGLISH PROGRAMS (ELR) 3 Credit Hours**

(Repeatable for credit) Provides opportunities for students to observe, assist, and or teach English as a second language in the ESL Center, including 70 fieldwork hours. Participating ESL Center classes are held Monday through Friday.

**Pre/corequisite:** ENG 31007.

**Schedule Type:** Lecture, Practical Experience

**Contact Hours:** 2 lecture, 5 other

**Grade Mode:** Standard Letter

**Attributes:** Experiential Learning Requirement

**ENG 41093 VARIABLE TITLE WORKSHOP IN ENGLISH 1-6 Credit Hours**

(Repeatable for credit) An opportunity to focus on concerns of the discipline and on new developments in writing, criticism, literature and career opportunities.

**Prerequisite:** Junior standing.

**Schedule Type:** Workshop

**Contact Hours:** 1-6 other

**Grade Mode:** Satisfactory/Unsatisfactory

**ENG 41094 COLLEGE TEACHING ASSISTANT (ELR) 1-3 Credit Hours**

(Repeatable for maximum 6 credit hours) An opportunity to assist in the development and delivery of a college course in English. Expectations may include group and class leadership, selection of materials, development of classroom inquiry techniques, and multimedia support.

**Prerequisite:** Senior standing; and special approval.

**Schedule Type:** Field Experience, Practical Experience

**Contact Hours:** 1-3 other

**Grade Mode:** Standard Letter

**Attributes:** Experiential Learning Requirement

**ENG 41096 INDIVIDUAL INVESTIGATION 1-3 Credit Hours**

(Repeatable for credit) Open to advanced undergraduate students in English or TESL. Only 3 hours of individual investigation count toward the English major.

**Prerequisite:** Junior standing; and special approval of instructor and department.

**Schedule Type:** Individual Investigation

**Contact Hours:** 1-3 other

**Grade Mode:** Standard Letter-IP

**ENG 41098 GUIDED RESEARCH IN ENGLISH (ELR) 1-3 Credit Hours**

(Repeatable for a maximum of 6 credit hours) Independent student research with faculty guidance.

**Prerequisite:** Junior standing; and special approval.

**Schedule Type:** Research

**Contact Hours:** 1-3 other

**Grade Mode:** Standard Letter

**Attributes:** Experiential Learning Requirement

**ENG 41192 ESL PRACTICUM IN A P-12 SETTING (ELR) 3 Credit Hours**

(Repeatable for credit) Provides students seeking educational licensure opportunities to observe, assist, and or teach English as a second language in P-12 schools, including 70 field-clinical hours. Students must complete the Bureau of Criminal Investigation and Identification (BCII) and Federal Bureau of Investigation (FBI) background checks and submit results to authorized personnel at the assigned school-agency before the first day of Practicum.

**Prerequisite:** ENG 31005.

**Pre/corequisite:** ENG 31007.

**Schedule Type:** Lecture, Practical Experience

**Contact Hours:** 2 lecture, 5 other

**Grade Mode:** Standard Letter

**Attributes:** Experiential Learning Requirement

**ENG 41194 TUTORING OF WRITING 3 Credit Hours**

Provides training and professional development for writing center tutors. Course covers writing center theory and practice, the history writing centers, composition pedagogy, writing across the curriculum, tutoring ESL students, assessing writing center services, and the development of outreach programming.

**Prerequisite:** Minimum C grade in ENG 21011 or HONR 10297.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ENG 41198 RESEARCH ASSISTANT IN ENGLISH (ELR) 1-3 Credit Hours**

(Repeatable for a maximum of 6 credit hours) An opportunity to assist a faculty member on faculty initiated research in criticism and literary analysis, rhetoric and composition, or applied language acquisition and teaching.

**Prerequisite:** Junior standing; and special approval.

**Schedule Type:** Research

**Contact Hours:** 1-3 other

**Grade Mode:** Standard Letter

**Attributes:** Experiential Learning Requirement

**ENG 41292 TEACHING ENGLISH AS A FOREIGN LANGUAGE PRACTICUM (ELR) 3,6 Credit Hours**

(Repeatable for a maximum of 12 credits) Students observe, participate and teach in a number of school contexts in Florence, Italy, from primary to secondary, community and higher education. Course gives students authentic practice teaching English in the foreign language context.

**Pre/corequisite:** ENG 31007.

**Schedule Type:** Practical Experience

**Contact Hours:** 5-10 other

**Grade Mode:** Standard Letter

**Attributes:** Experiential Learning Requirement

**ENG 41525 INQUIRY INTO PROFESSIONAL PRACTICE 3 Credit Hours**

Preparation for student teaching of English as a second language, grades K-12.

**Prerequisite:** CULT 29535 and EPSY 29525 and ETEC 39525.

**Corequisite:** ENG 41009.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ENG 42092 WRITING INTERNSHIP (ELR) 1-3 Credit Hours**

(Repeatable for a maximum of 6 credit hours) Guided internship in professional writing, editing, or publishing. Possible placements include the KSU Press, Institute for Bibliography and Editing, and WICK Poetry Center.

**Prerequisite:** Junior standing; and special approval.

**Schedule Type:** Field Experience, Practical Experience

**Contact Hours:** 1-3 other

**Grade Mode:** Satisfactory/Unsatisfactory

**Attributes:** Experiential Learning Requirement

**ENG 42192 SERVICE LEARNING IN ENGLISH STUDIES (ELR) 3 Credit Hours**

(Repeatable for maximum 6 credit hours) Provides guided opportunities for completing service learning related to English Studies. Service placements meet a community need and provide practice in such areas as writing, editing, publishing, teaching, and tutoring.

**Prerequisite:** Junior standing; and special approval.

**Schedule Type:** Field Experience, Practical Experience

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**Attributes:** Experiential Learning Requirement

**ENG 43092 TEACHING POETRY IN THE SCHOOLS (ELR) 3 Credit Hours**

(Repeatable for maximum 6 credit hours) Exploration of various approaches to teaching poetry writing, poetry appreciation, and poetry performance in school contexts. Study of creative writing as a means of developing literacy and promoting human growth.

**Prerequisite:** Sophomore standing; and special approval.

**Schedule Type:** Field Experience, Practical Experience

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**Attributes:** Experiential Learning Requirement

**ENG 49091 SENIOR SEMINAR (ELR) (WIC) 3 Credit Hours**

(Repeatable for credit) Intensive study of in English studies. Students complete a long writing project during the semester.

**Prerequisite:** ENG 38001 or ENG 38002; and English major.

**Schedule Type:** Seminar

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**Attributes:** Experiential Learning Requirement, Writing Intensive Course

**ENG 49095 SENIOR SPECIAL TOPICS 3 Credit Hours**

(Repeatable for credit) Intensive study of topics that will vary each semester.

**Prerequisite:** Senior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ENG 51009 STUDENT TEACHING 9 Credit Hours**

(Slashed with ENG 41009) Full-time student teaching over 13 weeks in English as a Second Language in grades P-12. Background check by the Bureau of Criminal Investigation and Identification (BCII) and Federal Bureau of Investigation (FBI) required to be presented to authorized personnel at the assigned school-agency before the first day of student teaching. To be enrolled in the course, students must have official valid certification of child safety training, approved basic life support and ALICE training presented to the campus office of clinical experience.

**Prerequisite:** Eligibility for student teaching; graduate standing; and special approval.

**Schedule Type:** Practical Experience

**Contact Hours:** 27.733 other

**Grade Mode:** Satisfactory/Unsatisfactory

**ENG 61000 INTRODUCTION TO RESEARCH AND PEDAGOGY IN CRITICAL READING 3 Credit Hours**

Introduction to contemporary methods of literary and cultural criticism and to the profession of teaching English in college.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ENG 61094 INTRODUCTION TO RESEARCH IN THE TEACHING OF COLLEGE WRITING 3 Credit Hours**

(Repeatable for credit) Using the Kent program as an example, the focus will be on teaching composition, literature and language along with the needed planning and evaluation.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ENG 62291 SEMINAR:BRITISH LITERATURE 1800 TO PRESENT 3 Credit Hours**

(Repeatable for credit) (Slashed with ENG 72291) In-depth treatment of various topics from the Romantic and Victorian periods and the 20th century.

**Prerequisite:** Graduate standing.

**Schedule Type:** Seminar

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**ENG 63001 METHODOLOGY OF TEACHING ENGLISH AS A SECOND LANGUAGE 3 Credit Hours**

(Slashed with ENG 73001) The theory and methodology of teaching English as a second language.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ENG 63033 THEORIES IN SECOND LANGUAGE ACQUISITION 3 Credit Hours**

(Cross-listed with MCLS 60661) (Slashed with ENG 73033) This course surveys the major theoretical approaches to language acquisition, concentrating on second language acquisition and the relationship between acquisition/learning research and second language teaching approaches.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ENG 63034 LITERATE PRACTICES AND SOCIOLINGUISTICS 3 Credit Hours**

(Slashed with ENG 73034) Discussion of sociolinguistic approaches to understanding literacy, language in workplaces and classrooms and societal multilingualism. Survey of trends in sociolinguistic thought and method.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ENG 63038 TEACHING LITERATURE AND CULTURE 3 Credit Hours**

(Cross-listed with MCLS 60622) Students will explore theories of literature and culture teaching as well as strategies for teaching literature and culture.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ENG 63039 SECOND LANGUAGE CURRICULUM AND TESTING 3 Credit Hours**

(Cross-listed with MCLS 60663) Students will study second language curriculum and testing design and current issues, including oral proficiency testing.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ENG 63040 LINGUISTICS FOR THE LANGUAGE PROFESSIONS 3 Credit Hours**

(Cross-listed with MCLS 60601) Students will be introduced to basic linguistic issues and how these relate to the language professions. Course focuses on functional principles, especially on options to express textual, interpersonal and ideational/experiential meaning.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ENG 63041 DESCRIPTIVE GRAMMAR OF ENGLISH 3 Credit Hours**

This course provides a description of English syntax and morphology. Presentation of material will be through rules and exposure to grammatical forms in meaningful contexts.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ENG 63043 SECOND LANGUAGE WRITING 3 Credit Hours**

(Cross-listed with MCLS 60665) Theory and practice in teaching second language writing. Topics will include current and historic approaches to second language writing, approaches to tutoring international students in writing centers, teacher and peer response, error correction, and technology in second language writing instruction.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ENG 63044 SECOND LANGUAGE READING 3 Credit Hours**

(Cross-listed with MCLS 60664) Addresses a wide variety of topics related to second language reading, including theoretical perspectives, the process of learning to read, models of how reading happens, comprehension, fluency, discourse structures, strategy use, and vocabulary acquisition. Teaching issues related to second language reading will also be addressed directly, namely assessment and curriculum building.

**Prerequisite:** Graduate standing.

**Schedule Type:** Seminar

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ENG 63045 ENGLISH FOR SPECIFIC PURPOSES 3 Credit Hours**

Examination of academic, workplace, and vocational language in the design of second language instructional materials and curriculum. Discourse domains from medical to agricultural to business are analyzed through applied linguistic tools. Curriculum and instructional materials are studied and designed.

**Prerequisite:** Graduate standing.

**Schedule Type:** Seminar

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**ENG 63046 SECOND LANGUAGE LISTENING AND SPEAKING 3 Credit Hours**

Theory and practice in second language listening and speaking. Topics will include current approaches to second language speech perception and production, issues in teaching and assessing second language listening and speaking, and phonetic, phonological, and acoustic analyses for language teachers.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ENG 63047 HERITAGE LANGUAGES AND SECOND LANGUAGE LEARNING 3 Credit Hours**

(Cross-listed with MCLS 60624) Theory and practice in language education of heritage language speakers. Ethnic, minority, ancestral, and community languages and language practices will be explored with implications for second and additional language learning in English, foreign language, bilingual education.

**Prerequisite:** Graduate standing.

**Schedule Type:** Seminar

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ENG 63098 SECOND LANGUAGE RESEARCH METHODS 3 Credit Hours**

(Cross-listed with MCLS 60698) Students learn how second language research influences their teaching practices by studying research texts and recent journal articles and conducting a research project.

**Prerequisite:** Graduate standing.

**Schedule Type:** Research

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**ENG 63391 SEMINAR: LINGUISTICS 3 Credit Hours**

(Repeatable for credit) (Cross-listed with ENG 73391) In-depth treatment of various topics from modern linguistics, including phonology, morphology and various generative grammars.

**Prerequisite:** Graduate standing.

**Schedule Type:** Seminar

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**ENG 64070 WRITING POETRY 3 Credit Hours**

(Cross-listed with ENG 74070) Advanced workshop in creative writing.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ENG 64071 WRITING FICTION 3 Credit Hours**

(Slashed with ENG 74071) Advanced workshop in the writing of fiction.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ENG 65012 READING AND INTERPRETING RESEARCH ON WRITING 3 Credit Hours**

(Slashed with ENG 75012) Course focuses on how to read critically and interpret published research by examining the principle means through which 'knowledge' is constructed in writing research.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ENG 65022 RHETORICAL THEORY:GREEK AND ROMAN 3 Credit Hours**

(Slashed with ENG 75022) Course examines classical Greek and Roman rhetorical traditions and, to a lesser extent, their reappearance in contemporary rhetorical theories and composition pedagogies.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ENG 65023 RHETORICAL THEORY:18TH, 19TH AND 20TH CENTURIES 3 Credit Hours**

(Slashed with ENG 75023) Course surveys 18th-, 19th- and 20th-century developments in rhetorical theory and their influences on contemporary pedagogical and theoretical practices.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ENG 65027 ROLE OF COMPOSITION 3 Credit Hours**

(Slashed with ENG 75027) (Repeatable for maximum 6 credit hours) Study of composition's contributions to writing studies such as writing pedagogy/theory, writing technologies, assessment, process research, WAC, program administration, rhetoric and cultural studies.

**Prerequisite:** Graduate standing.

**Schedule Type:** Seminar

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**ENG 65035 LINGUISTICS FOR RHETORICIANS 3 Credit Hours**

(Slashed with ENG 75035) (Repeatable for maximum 6 credit hours) Provides an introduction to linguistic theories, concepts and tools relevant to the teaching and researching of various dimensions of written texts.

**Prerequisite:** Graduate standing.

**Schedule Type:** Seminar

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**ENG 65044 RESEARCH DESIGN 3 Credit Hours**

(Slashed with ENG 75044) (Repeatable for maximum 6 credit hours) Introduces students to a range of research methodologies through theoretical scholarship and guided practice, culminating in a pilot research project.

**Prerequisite:** Graduate standing.

**Schedule Type:** Seminar

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter



**ENG 65051 LITERACY:FUNCTIONS, PRACTICES AND HISTORY 3 Credit Hours**

(Slashed with ENG 75051) Introduces students to a range of research methodologies through theoretical scholarship and guided practice, culminating in a pilot research project. Course surveys and critically evaluates historical and contemporary studies of literacy in terms of three dominant metaphors ('adaptation,' 'power,' 'grace') those studies employ.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ENG 65052 WRITING ACTIVITY AS SOCIAL PRACTICE 3 Credit Hours**

(Slashed with ENG 75052) Through Vygotskian-based activity theory and contemporary theories of practice, course explores the rhetorical bases and implications of studying literacy and writing as embedded activity.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ENG 65053 WRITING TECHNOLOGIES 3 Credit Hours**

(Slashed with ENG 75053) Course critically examines theoretical and pedagogical claims concerning writing technologies and begins identifying the conceptual components of a grounded theory for technology-enhanced literacy learning.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ENG 66002 BRITISH AND IRISH LITERATURE FROM THE EARLY ROMANTICS ONWARD 3 Credit Hours**

(Slashed with ENG 76002) Broad, synchronic study of the literature identified with a single period in literary history embracing various genres and relating the literature to other cultural phenomena of the time.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ENG 66051 SHAKESPEARE 3 Credit Hours**

(Slashed with ENG 76051) Close reading of selected plays and poems by Shakespeare with some emphasis on critical and interpretative problems.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ENG 66101 LITERATURE OF THE UNITED STATES THROUGH THE CIVIL WAR 3 Credit Hours**

(Slashed with ENG 76101) Broad, synchronic study of U.S. literature identified with a single period in literary history embracing various genres and relating the literature to other cultural phenomena of the time.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ENG 66103 ETHNIC LITERATURE OF THE UNITED STATES 3 Credit Hours**

(Slashed with ENG 76103) An examination of selected fiction and theory by ethnic American authors, or of literary representations of special topics relating to ethnic and racial identity.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ENG 66104 AFRICAN-AMERICAN LITERATURE 3 Credit Hours**

(Slashed with ENG 76104) An examination of selected African-American fiction and theory, or of a special topic relating to literary representations of African-American culture identity or history.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ENG 66302 POST-COLONIAL LITERATURE IN ENGLISH 3 Credit Hours**

(Slashed with ENG 76302) An examination of selected fiction and theory in English by post-colonial authors from India, Africa, South Africa, the Caribbean and elsewhere.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ENG 66401 LITERARY MOVEMENTS 3 Credit Hours**

(Slashed with ENG 76401) An examination of one particular movement in literary history via its writers, artists benefactors, thinkers, political demagogues and critics.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ENG 66501 NARRATIVE LITERATURE 3 Credit Hours**

(Slashed with ENG 76501) Close readings of selected novels, short stories biographies autobiographies life writing journals and other forms of narrative and verse by British American and other writers in English from one or more periods in literary history.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ENG 66502 DRAMATIC LITERATURE 3 Credit Hours**

(Slashed with ENG 76502) Close reading of selected plays and other dramatic forms by writers of Britain, Ireland and the United States from one or more periods in literary history.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ENG 66592 PRACTICUM IN TUTORING WRITING 1 Credit Hour**

(Repeatable for credit) Practical training and experience in tutoring composition.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture, Practical Experience

**Contact Hours:** 1 lecture

**Grade Mode:** Standard Letter

**ENG 66595 SPECIAL TOPICS:AUTHORS AND AUTHORSHIP 3 Credit Hours**

(Repeatable for credit) (Slashed with ENG 76595) Research-based study of problems in the theory or practice of authorship. Typical courses include 'The Creative Process,' 'Authors and Printers,' 'Faulkner in Hollywood'.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ENG 66706 METHODS IN THE STUDY OF LITERATURE 3 Credit Hours**

(Slashed with ENG 76706) Analytical reading and interpretation of published research and criticism, its assumptions, trends, controversies; course will identify and contextualize present opportunities for research in field. Required for Ph.D.s specializing in Division II.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ENG 66791 SEMINAR:BRITISH AND IRISH LITERATURE 3 Credit Hours**

(Repeatable for credit) (Slashed with ENG 76791) In-depth treatment of various topics from Old English literature, Beowulf, Middle English literature and Chaucer.

**Prerequisite:** Graduate standing.

**Schedule Type:** Seminar

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**ENG 66891 SEMINAR:LITERATURE OF THE UNITED STATES 3 Credit Hours**

(Repeatable for credit) (Slashed with ENG 76891) This course will examine the construction of American identities. Writers typically discussed are Howells, Dreiser, Cahan, Anderson, Fitzgerald, Dos Passos, Wright, Baldwin, Bellow, Ikada, Jen and others. Content varies.

**Prerequisite:** Graduate standing.

**Schedule Type:** Seminar

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**ENG 66895 SPECIAL TOPICS 3 Credit Hours**

(Repeatable for credit) (Slashed with ENG 76895) Study of selected special topics in literature.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ENG 66991 SEMINAR:GENRE 3 Credit Hours**

(Repeatable for credit) (Slashed with ENG 76991) In-depth examination of one or more kinds of texts focusing on how forms are defined historically and analytically, with special attention to current approaches.

**Prerequisite:** Graduate standing.

**Schedule Type:** Seminar

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**ENG 67101 FEMINIST THEORY AND CRITICISM 3 Credit Hours**

(Slashed with ENG 77101) Study of key issues and concepts in feminist theory and criticism, including the nature, causes and effects (political, social and psychological) of certain types of representation of women and discourse practices employed by women.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ENG 67104 SOCIAL AND CULTURAL THEORY AND CRITICISM 3 Credit Hours**

(Repeatable for credit) (Slashed with ENG 77104) Study of important issues and concepts in Marxist, new historicist, ethnic, post- colonialist and other modes of social/cultural theory and criticism.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ENG 67591 SEMINAR: THEORY AND CRITICISM 3 Credit Hours**

(Repeatable for credit when topic varies) (Slashed with ENG 77591) In-depth study of important topics in contemporary theory and criticism.

**Prerequisite:** Graduate standing.

**Schedule Type:** Seminar

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**ENG 67691 SEMINAR:SCHOLARLY EDITING 3 Credit Hours**

(Repeatable for credit when topic varies) (Slashed with ENG 77691) In-depth treatment of various topics from modern scholarly editing.

**Prerequisite:** Graduate standing.

**Schedule Type:** Seminar

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**ENG 68093 VARIABLE TITLE WORKSHOP IN ENGLISH 2-6 Credit Hours**

(Repeatable for a maximum 8 credit hours) (Slashed with ENG 78093) Designed to focus on concerns of the profession/discipline to bring secondary teachers up to date on new developments in the field. Maximum for degree credit is 4 hours.

**Prerequisite:** Graduate standing.

**Schedule Type:** Workshop

**Contact Hours:** 2-6 other

**Grade Mode:** Satisfactory/Unsatisfactory

**ENG 68096 INDIVIDUAL INVESTIGATION 1-3 Credit Hours**

(Repeatable for credit) (Slashed with ENG 78096) Intensive study of selected writer or special topic.

**Prerequisite:** Graduate standing.

**Schedule Type:** Individual Investigation

**Contact Hours:** 1-3 other

**Grade Mode:** Standard Letter-IP

**ENG 68098 RESEARCH 1-15 Credit Hours**

(Repeatable for credit) Research for master's level graduate students.

Credits earned may be applied toward meeting degree requirements if the department approves.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Research

**Contact Hours:** 1-15 other

**Grade Mode:** Satisfactory/Unsatisfactory

**ENG 68392 PRACTICUM IN TEACHING COLLEGE ENGLISH 3 Credit Hours**

(Repeatable for credit) (Slashed with ENG 78392) Practical training and experience in teaching beginning composition courses.

**Prerequisite:** Graduate standing.

**Schedule Type:** Practical Experience

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**ENG 68492 PRACTICUM IN TEACHING INTERNATIONAL STUDENTS 3 Credit Hours**

(Repeatable for credit) Practical training and experience in teaching English to international students in a university intensive English program. Field placement in the ESL Center requires 70 field-clinical hours. Participating classes are Monday through Friday.

**Prerequisite:** Graduate standing.

**Pre/corequisite:** ENG 63001.

**Schedule Type:** Lecture, Practical Experience

**Contact Hours:** 3 lecture, 6 other

**Grade Mode:** Standard Letter

**ENG 68592 PRACTICUM IN TEACHING P-12 ENGLISH LANGUAGE LEARNERS 3 Credit Hours**

(Repeatable for credit) Practical training and experience in teaching English to speakers of other languages in P-12 schools including 100 field-clinical hours in an assigned P-12 school.

**Prerequisite:** Graduate standing in MA TESL Education Concentration.

**Pre/corequisite:** ENG 63001.

**Schedule Type:** Field Experience

**Contact Hours:** 2 lecture, 100 other

**Grade Mode:** Standard Letter

**ENG 69199 THESIS I 2-6 Credit Hours**

Thesis students must register for a total of 6 semester hours, 2 to 6 in a single semester distributed over several semesters if desired.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Masters Thesis

**Contact Hours:** 2-6 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**ENG 69299 THESIS II 2 Credit Hours**

Thesis students must continue registration each semester until all degree requirements are met.

**Prerequisite:** ENG 69199; and graduate standing.

**Schedule Type:** Masters Thesis

**Contact Hours:** 2 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**ENG 72291 SEMINAR:BRITISH LITERATURE 1800 TO PRESENT 3 Credit Hours**

(Repeatable for credit) (Slashed with ENG 62291) In-depth treatment of various topics from the Romantic and Victorian periods and the 20th century.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Seminar

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**ENG 73001 METHODOLOGY OF TEACHING ENGLISH AS A SECOND LANGUAGE 3 Credit Hours**

(Slashed with ENG 63001) The theory and methodology of teaching English as a second language.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ENG 73033 THEORIES IN SECOND LANGUAGE ACQUISITION 3 Credit Hours**

(Slashed with ENG 63033) (Cross-listed with MCLS 60661) This course surveys the major theoretical approaches to language acquisition concentrating on second language acquisition and the relationship between acquisition learning research and second language teaching approaches.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ENG 73034 LITERATE PRACTICES AND SOCIOLINGUISTICS 3 Credit Hours**

(Slashed with ENG 63034) Discussion of sociolinguistic approaches to understanding literacy, language in workplaces and classrooms and societal multilingualism. Survey of trends in sociolinguistic thought and method.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ENG 73391 SEMINAR:LINGUISTICS 3 Credit Hours**

(Repeatable for credit) (Slashed with ENG 63391) In-depth treatment of various topics from modern linguistics, including phonology, morphology and various generative grammars.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Seminar

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**ENG 74070 WRITING POETRY 3 Credit Hours**

(Slashed with ENG 64070) Advanced workshop in creative writing.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ENG 74071 WRITING FICTION 3 Credit Hours**

(Slashed with ENG 64071) Advanced workshop in the writing of fiction.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ENG 75012 READING AND INTERPRETING RESEARCH ON WRITING 3 Credit Hours**

(Slashed with ENG 65012) Course focuses on how to read critically and interpret published research by examining the principle means through which 'knowledge' is constructed in writing research.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ENG 75022 RHETORICAL THEORY:GREEK AND ROMAN 3 Credit Hours**

(Slashed with ENG 65022) Course examines classical Greek and Roman rhetorical traditions and, to a lesser extent, their reappearance in contemporary rhetorical theories and composition pedagogies.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ENG 75023 RHETORICAL THEORY:18TH, 19TH AND 20TH CENTURIES 3 Credit Hours**

(Slashed with ENG 65023) Course surveys 18th-,19th- and 20th-century developments in rhetorical theory and their influences on contemporary pedagogical and theoretical practices.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ENG 75027 ROLE OF COMPOSITION 3 Credit Hours**

(Slashed with ENG 65027) (Repeatable for maximum 6 credit hours) Study of composition's contributions to writing studies such as writing pedagogy/theory, writing technologies, assessment, process research, WAC, program administration, rhetoric and cultural studies.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Seminar

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**ENG 75035 LINGUISTICS FOR RHETORICIANS 3 Credit Hours**

(Slashed with ENG 65035) (Repeatable for maximum 6 credit hours) Provides an introduction to linguistic theories, concepts and tools relevant to the teaching and researching of various dimensions of written texts.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Seminar

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**ENG 75044 RESEARCH DESIGN 3 Credit Hours**

(Slashed with ENG 65044) (Repeatable for maximum 6 credit hours) Introduces students to a range of research methodologies through theoretical scholarship and guided practice, culminating in a pilot research project.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Seminar

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**ENG 75051 LITERACY:FUNCTIONS, PRACTICES AND HISTORY 3 Credit Hours**

(Slashed with ENG 65051) Introduces students to a range of research methodologies through theoretical scholarship and guided practice, culminating in a pilot research project. Course surveys and critically evaluates historical and contemporary studies of literacy in terms of three dominant metaphors ('adaptation,' 'power,' 'grace') those studies employ. **Prerequisite:** Doctoral standing.

**Prerequisite:** graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ENG 75052 WRITING ACTIVITY AS SOCIAL PRACTICE 3 Credit Hours**

(Slashed with ENG 65052) Through Vygotskian-based activity theory and contemporary theories of practice, course explores the rhetorical bases and implications of studying literacy and writing as embedded activity.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ENG 75053 WRITING TECHNOLOGIES 3 Credit Hours**

(Cross-listed with ENG 65053) Course critically examines theoretical and pedagogical claims concerning writing technologies and begins identifying the conceptual components of a grounded theory for technology-enhanced literacy learning.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ENG 76002 BRITISH AND IRISH LITERATURE FROM THE EARLY ROMANTICS ONWARD 3 Credit Hours**

(Slashed with ENG 66002) Broad, synchronic study of the literature identified with a single period in literary history embracing various genres and relating the literature to other cultural phenomena of the time.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ENG 76051 SHAKESPEARE 3 Credit Hours**

(Slashed with ENG 66051) Close reading of selected plays and poems by Shakespeare with some emphasis on critical and interpretative problems.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ENG 76101 LITERATURE OF THE UNITED STATES THROUGH THE CIVIL WAR 3 Credit Hours**

(Slashed with ENG 66101) Broad, synchronic study of U.S. literature identified with a single period in literary history embracing various genres and relating the literature to other cultural phenomena of the time.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ENG 76103 ETHNIC LITERATURE OF THE UNITED STATES 3 Credit Hours**

(Slashed with ENG 66103) An examination of selected fiction and theory by ethnic American authors, or of literary representations of special topics relating to ethnic and racial identity.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ENG 76104 AFRICAN-AMERICAN LITERATURE 3 Credit Hours**

(Slashed with ENG 66104) An examination of selected African-American fiction and theory, or of a special topic relating to literary representations of African-American culture, identity or history.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ENG 76302 POST-COLONIAL LITERATURE IN ENGLISH 3 Credit Hours**

(Slashed with ENG 66302) An examination of selected fiction and theory in English by post-colonial authors from India, Africa, South Africa, the Caribbean and elsewhere.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ENG 76401 LITERARY MOVEMENTS 3 Credit Hours**

(Slashed with ENG 66401) An examination of one particular movement in literary history via its writers, artists, benefactors, thinkers, political demagogues and critics.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ENG 76501 NARRATIVE LITERATURE 3 Credit Hours**

(Slashed with ENG 66501) Close readings of selected novels, short stories, biographies, autobiographies, life writing, journals, and other forms of narrative and verse by British, American and other writers in English, from one or more periods in literary history.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ENG 76502 DRAMATIC LITERATURE 3 Credit Hours**

(Slashed with ENG 66502) Close reading of selected plays and other dramatic forms by writers of Britain, Ireland and the United States, from one or more periods in literary history.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ENG 76592 PRACTICUM IN TUTORING WRITING 1 Credit Hour**

(Repeatable for credit) Practical training and experience in tutoring composition.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture, Practical Experience

**Contact Hours:** 1 lecture

**Grade Mode:** Standard Letter

**ENG 76595 SPECIAL TOPICS:AUTHORS AND AUTHORSHIP 3 Credit Hours**

(Repeatable for credit) (Slashed with ENG 66595) Research-based study of problems in the theory or practice of authorship. Typical courses include 'the creative process', 'authors and printers', 'Faulkner in Hollywood'.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ENG 76706 METHODS IN THE STUDY OF LITERATURE 3 Credit Hours**

(Slashed with ENG 66706) Analytical reading and interpretation of published research and criticism, its assumptions, trends, controversies; course will identify and contextualize present opportunities for research in field. Required for Ph.D.s specializing in Division II.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ENG 76791 SEMINAR:BRITISH AND IRISH LITERATURE 3 Credit Hours**

(Repeatable for credit) (Slashed with ENG 66791) In-depth treatment of various topics from old English literature, Beowulf, Middle English literature, and Chaucer.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Seminar

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**ENG 76891 SEMINAR:LITERATURE OF THE UNITED STATES 3 Credit Hours**

(Repeatable for credit) (Slashed with ENG 66891) This course will examine the construction of American identities. Writers typically discussed are Howells, Dreiser, Cahan, Anderson, Fitzgerald, Dos Passos, Wright, Baldwin, Bellow, Ikada, Jen and others. Content varies.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Seminar

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**ENG 76895 SPECIAL TOPICS 3 Credit Hours**

(Repeatable for credit) (Slashed with ENG 66895) Study of selected special topics in literature.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ENG 76991 SEMINAR:GENRE 3 Credit Hours**

(Repeatable for credit) (Slashed with ENG 66991) In-depth examination of one or more kinds of texts focusing on how forms are defined historically and analytically, with special attention to current approaches.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Seminar

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**ENG 77101 FEMINIST THEORY AND CRITICISM 3 Credit Hours**

(Slashed with ENG 67101) Study of key issues and concepts in feminist theory and criticism, including the nature, causes and effects (political, social and psychological) of certain types of representation of women and discourse practices employed by women.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter



**ENG 77104 SOCIAL AND CULTURAL THEORY AND CRITICISM 3 Credit Hours**

(Repeatable for credit) (Slashed with ENG 67104) Study of important issues and concepts in Marxist, new historicist, ethnic, post-colonialist and other modes of social cultural theory and criticism.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ENG 77591 SEMINAR:THEORY AND CRITICISM 3 Credit Hours**

(Repeatable for credit) (Slashed with ENG 67591) In-depth study of important topics in contemporary theory and criticism.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Seminar

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**ENG 77691 SEMINAR:SCHOLARLY EDITING 3 Credit Hours**

(Repeatable for credit when topic varies) (Slashed with ENG 67691) In-depth treatment of various topics from modern scholarly editing.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Seminar

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**ENG 78093 VARIABLE TITLE WORKSHOP IN ENGLISH 2-6 Credit Hours**

(Repeatable for a maximum of 8 credit hours) (Cross-listed with ENG 68093) Designed to focus on concerns of the profession/discipline to bring secondary teachers up to date on new developments in the field. Maximum for degree credit is 4 hours.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Workshop

**Contact Hours:** 2-6 other

**Grade Mode:** Satisfactory/Unsatisfactory

**ENG 78096 INDIVIDUAL INVESTIGATION 1-3 Credit Hours**

(Repeatable for credit) (Slashed with ENG 68096) Intensive study of selected writer or special topic.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Individual Investigation

**Contact Hours:** 1-3 other

**Grade Mode:** Standard Letter-IP

**ENG 78392 PRACTICUM IN TEACHING COLLEGE ENGLISH 3 Credit Hours**

(Repeatable for credit) (Slashed with ENG 68392) Practical training and experience in teaching beginning composition courses.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Practical Experience

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**ENG 85024 DOMAIN RHETORICS AND THE CONSTRUCTION OF KNOWLEDGE 3 Credit Hours**

(Repeatable twice for credit) Course examines disciplinarity and knowledge production as historically and socially situated practices and how they are realized through linguistic, rhetorical and material processes and systems.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ENG 85025 THEORIES AND SYSTEMS OF WRITING AND REPRESENTATION 3 Credit Hours**

Course examines the history and use of scripts and other means of constructing shared meaning and the attendant contemporary issues concerning writing and representation.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ENG 85033 THE RHETORICAL NATURE AND FUNCTION OF EXTENDED DISCOURSE 3 Credit Hours**

Examines discourse as a rhetorical and socio-political practice that extends beyond the temporal and material boundaries of individual texts by considering how discursive practice is embedded within, sustains, and modifies other social, cultural, and political practices.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ENG 85041 FIELD RESEARCH METHODS IN WRITING 3 Credit Hours**

Course focuses on qualitative methods for conducting field research in writing within communities of practice and particular contexts and for analyzing and interpreting data.

**Prerequisite:** 9 credit hours from the following courses: ENG 75012, ENG 75022, ENG 75023, ENG 73034, ENG 75051, ENG 75052, ENG 75053; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ENG 85042 DISCOURSE ANALYSIS 3 Credit Hours**

Explores various approaches to discourse analysis (e.g., critical discourse analysis, narrative theory, systemic functional linguistics) and teaches students how to use them to conduct linguistic analyses of discourse.

We will examine discourse in terms of the key functions language serves as a form of social action: to represent the world, to invoke and create social relationships, interactions, and identities, and to organize utterances into meaningful discursive events and products.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ENG 85054 STUDIES IN LITERACY AND COMMUNITY 3 Credit Hours**

Course expands on ENG 75052 by examining in more detail how literacy is embedded in the activities and practices of academic, civic and professional communities.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ENG 85055 THE NATURE AND RELATIONSHIP OF ACADEMIC AND NONACADEMIC LITERACY 3 Credit Hours**

Course explores the relationship between academic and non-academic literacy, focusing on relationships pertaining to the school-to-work transitions that students make.

**Prerequisite:** Doctoral standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ENG 85056 INTRODUCTION TO THE STUDY OF WRITING****ASSESSMENT: RESEARCH, THEORY AND PRACTICE 3 Credit Hours**

Provides students with an introduction to the theory, research, and practice of writing assessment outside the classroom, as it is informed through the study of the literatures of college writing assessment and educational measurement. In addition to acquiring a basic understanding of measurement principles like reliability and validity for assessing student writing, students can complete projects of their own design for their own institutions.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ENG 85057 RHETORICAL METHODS 3 Credit Hours**

Focuses on methodological practices associated with rhetorical theory and considers the epistemological and ontological underpinnings of these theories' methodologies. Course investigates how these theories know and what they deem worth knowing. The course is designed around several significant approaches to analysis, both classical and contemporary. This orientation is intended to offer background and prompt students to apply those rhetorical methodologies in their own work.

**Prerequisite:** 6 credit hours from ENG 75012, ENG 75022, ENG 75023; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ENG 85060 DIRECTED READINGS IN WRITING AND RHETORIC 3 Credit Hours**

Topics covered will vary according to the needs of students demonstrating deficiency in qualifying exams and/or requiring additional work before undertaking a dissertation project.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ENG 88098 RESEARCH DOCTORAL 1-15 Credit Hours**

(Repeatable for credit) Research or individual investigation for doctoral students who have not yet passed candidacy examination. Credits earned may be applied toward degree if department approves.

**Prerequisite:** Graduate standing; and special approval of the graduate chairman.

**Schedule Type:** Research

**Contact Hours:** 1-15 other

**Grade Mode:** Satisfactory/Unsatisfactory

**ENG 89199 DISSERTATION I 15 Credit Hours**

(Repeatable for credit) Doctoral dissertation, for which registration in two semesters is required first of which will be the semester in which dissertation work is begun and continuing until completion of 30 hours.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Dissertation

**Contact Hours:** 15 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**ENG 89299 DISSERTATION II 15 Credit Hours**

(Repeatable for credit) Continuing registration required of doctoral students who have completed the initial 30 hours of dissertation and continuing until all degree requirements are met.

**Prerequisite:** ENG 89199; and doctoral standing.

**Schedule Type:** Dissertation

**Contact Hours:** 15 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

## Department of Geography

### Environmental Studies (ENVS)

**ENVS 22070 NATURE AND SOCIETY (KSS) 3 Credit Hours**

Environmental studies takes an interdisciplinary approach to studying the environment, with insights from natural sciences, social sciences and the humanities. This course introduces the discipline and explores theoretical approaches to understanding how humans interact with and perceive their environment. It applies these approaches to some of the world's greatest environmental challenges: climate change, the loss of biodiversity, urban sustainability, food and resource insecurity, and the degradation of the physical environment.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Kent Core Social Sciences

**ENVS 30000 ENVIRONMENTAL PROTECTION REGULATIONS AND ASSESSMENT 3 Credit Hours**

(Cross-listed with PLST 30000) The Federal and State environmental regulations including the National Environmental Policy Act, the Clean Air Act, the Clean Water Act, Solid and Hazardous Waste regulations (RCRA) and the Superfund Legislation require the utilization of trained environmental professionals to conduct Environmental Site Assessments (ESAs). The focus of this course is to introduce students to the methods and approaches for conducting environmental research and study of industrial sites with respect to environmental policies and regulations. The enforcement of regulations utilize environmental professionals who serve in governmental agencies, work in private environmental companies that provide assessments and consultations for industries, and who are employed by industries that seek qualified employees to conduct assessments, and provide professional guidance for industrial regulatory compliance.

**Prerequisite:** Junior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ENVS 30105 CAREER PATHWAYS IN ENVIRONMENTAL STUDIES 1 Credit Hour**

Orients students toward various career pathways in Environmental Studies.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 1 lecture

**Grade Mode:** Satisfactory/Unsatisfactory

**ENVS 32091 ENVIRONMENTAL STUDIES AND SUSTAINABILITY 2 Credit Hours**

Various aspects of environmental studies are explored. Topics will vary.

**Prerequisite:** ENVS 22070; and junior standing.

**Schedule Type:** Seminar

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**ENVS 42099 INTEGRATIVE SENIOR PROJECT (ELR) (WIC) 2 Credit Hours**

This is the capstone course for the Environmental Studies major. All students in this course will learn about methods of investigation and presentation in the area of Environmental Studies. The course will culminate in a major research project developed and written by each student.

**Prerequisite:** ENVS 22070 and ENVS 32091.

**Schedule Type:** Seminar

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**Attributes:** Experiential Learning Requirement, Writing Intensive Course

**ENVS 46092 INTERNSHIP IN ENVIRONMENTAL STUDIES (ELR) 3-6 Credit Hours**

(Slashed with ENVS 56092) Work experience in local, regional, and national agencies or companies designed to utilize and develop academic and professional skills.

**Prerequisite:** Sophomore standing.

**Schedule Type:** Practical Experience

**Contact Hours:** 9-18 other

**Grade Mode:** Standard Letter

**Attributes:** Experiential Learning Requirement

**ENVS 49195 SPECIAL TOPICS IN ENVIRONMENTAL STUDIES 1-3 Credit Hours**

(Slashed with ENVS 49195) Special topics in Environmental Studies.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3-9 lecture

**Grade Mode:** Standard Letter

**ENVS 56092 INTERNSHIP IN ENVIRONMENTAL STUDIES 3-6 Credit Hours**

(Slashed with ENVS 46092) Work experience in local, regional, and national agencies or companies designed to utilize and develop academic and professional skills.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Practical Experience

**Contact Hours:** 9-18 other

**Grade Mode:** Standard Letter

**ENVS 59195 SPECIAL TOPICS IN ENVIRONMENTAL STUDIES 1-3 Credit Hours**

(Slashed with ENVS 49195) Special topics in Environmental Studies.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3-9 lecture

**Grade Mode:** Standard Letter

## Geography (GEOG)

**GEOG 10160 INTRODUCTION TO GEOGRAPHY 3 Credit Hours**

A broad introduction to the study of geographic patterns on Earth.

Course describes and explains spatial patterns of human activity and environmental processes, as well as the interaction between these two realms. Topics include weather, climate, landforms, human-environment interactions, population, culture, economy and politics.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**GEOG 16001 SOIL AND HORTICULTURAL MANAGEMENT 3 Credit Hours**

Course provides students with an understanding of the relationship of soil, nutrients and fertilizers. Students understand how to properly plant trees, shrubs and flowers.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**GEOG 17063 WORLD GEOGRAPHY (DIVG) (KSS) 3 Credit Hours**

An overview of the differences and similarities within and between regions of the world. Students study the impacts of spatial processes as they operate at regional, global and local scales. Course emphasizes the effects of globalization on culture, economies, geopolitical relationships, population and the environment.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Diversity Global, Kent Core Social Sciences, TAG Social and Behavioral Sciences, Transfer Module Social Sciences

**GEOG 17064 GEOGRAPHY OF THE UNITED STATES AND CANADA (DIVD) (KSS) 3 Credit Hours**

An overview of the differences and similarities within and between regions of the United States and Canada. Course focuses on social, economic, settlement and environmental patterns and processes.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Diversity Domestic, Kent Core Social Sciences, Transfer Module Social Sciences

**GEOG 20195 SPECIAL TOPICS IN GEOGRAPHY 1-3 Credit Hours**

(Repeatable for credit) Course explores emerging topics in geography not covered in other existing courses. Topics vary per course offering.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 1-3 lecture

**Grade Mode:** Standard Letter

**GEOG 21062 PHYSICAL GEOGRAPHY (KBS) 3 Credit Hours**

Introduction to the study of the spatial characteristics of the Earth's physical environment, including how humans interact with it. Topics include weather and climate, vegetation, soils, ecosystems, landforms and land-formation processes, human impacts on Earth systems and human societal adaptations to the physical environment.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Kent Core Basic Sciences, TAG Social and Behavioral Sciences, Transfer Module Natural Sciences

**GEOG 21063 PHYSICAL GEOGRAPHY LABORATORY (KBS) (KLAB) 1 Credit Hour**

Course offers practical experience examining physical geographic processes, including the study and manipulation of map projections, Earth-sun relationships and experiments relating to the atmosphere, biosphere, lithosphere and hydrosphere. This laboratory course is taught in conjunction with the lecture and is designed to expand and reinforce concepts discussed in lecture through hands-on activities.

**Corequisite:** GEOG 21062.

**Schedule Type:** Laboratory

**Contact Hours:** 2 lab

**Grade Mode:** Standard Letter

**Attributes:** Kent Core Basic Sciences, Kent Core Basic Sciences Lab, Transfer Module Natural Sciences

**GEOG 22040 INTRODUCTION TO GLOBAL TOURISM (DIVG) 3 Credit Hours**

(Cross-listed with RPTM 26060) Introduction to travel and tourism around the world. Students study tourism technologies and cultural and natural environments as attractions, benefits of travel, travel ethics and sustainable development.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Diversity Global

**GEOG 22061 HUMAN GEOGRAPHY (DIVG) (KSS) 3 Credit Hours**

Introduction to the spatial patterns and processes of human activity on Earth. Course examines how humans understand and interact with the world. Students consider how cities are structured; economic and cultural differences; the interaction between politics and identity; and the environmental consequences of human activities.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Diversity Global, Kent Core Social Sciences, TAG Social and Behavioral Sciences, Transfer Module Social Sciences

**GEOG 29160 MAPPING OUR WORLD 3 Credit Hours**

Course is a first step for students to understand the importance of maps. Students are exposed to case studies and various mapping techniques that allow them to learn both the fundamentals of cartography and spatial data, and how people solve real-life problems using maps.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** TAG Social and Behavioral Sciences

**GEOG 31062 FUNDAMENTALS OF METEOROLOGY 3 Credit Hours**

Analysis of weather elements emphasizing energy exchanges and controls and atmospheric circulation. Course highlights the methods of weather prediction and people's modification of weather.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**GEOG 31064 PRINCIPLES OF CLIMATOLOGY 3 Credit Hours**

A study of the physical processes causing the distribution of world climates. Focus on local and urban climates, climatic change and societal impacts of climate.

**Prerequisite:** GEOG 31062.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**GEOG 31070 POPULATION AND THE ENVIRONMENT 3 Credit Hours**

Course examines the interrelations of population growth, resource depletion and the environment from a geographic perspective, including the principal themes of space and place.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**GEOG 31080 GEOGRAPHY OF WINE 3 Credit Hours**

Examines the physical environment of viticulture, including climate, soil and farm practices; the cultural tradition of wine making, consumption and trade; and regional production styles.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**GEOG 31088 ENVIRONMENTAL GEOGRAPHY THROUGH FILM 3 Credit Hours**

Cinema combines the art of storytelling and creation of landscape in such a way as to capture artifacts of the culture from which films emerge and as such, document in some way cultural, social and political history and experiences. In the course, films are used to examine environmental issues and processes in their social and cultural context.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**GEOG 32023 CAMPUS AND COMMUNITY GARDENS (ELR) 3 Credit Hours**

Course gives students a working knowledge in, and ability to understand and analyze, the intersections of food production, access and consumption. Course enables students to apply a critical geographic lens to compare the traditional food production system with alternatives at various scales, from local to global. Students focus on urban community gardening as one such alternative and personally interact with the Stark Campus' Flash's Food Garden as a case study in planning and preparing such a garden. Course combines lectures, discussions of scholarly publications, field trips, guest lectures and the hands-on experiential learning.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Experiential Learning Requirement



**GEOG 32080 POLITICS AND PLACE (DIVG) 3 Credit Hours**

Spatial aspects of political behavior as manifested in boundary changes, the sizes of states, interstate relations and spatial organization.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Diversity Global

**GEOG 34070 ECONOMIC GEOGRAPHY 3 Credit Hours**

Examines economic patterns at global, national, regional and local scales. Focus of course goes beyond space to place, with the recognition that these patterns are socially produced and, as such, change over time. Students examine economic models and theories from a spatial perspective, but with a strong focus on real-life outcomes, debates and challenges.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**GEOG 35065 GEOGRAPHY OF TRANSPORTATION AND SPATIAL INTERACTION 3 Credit Hours**

Course examines spatial interaction; the study of flows, networks and integrated systems at different spatial scales; transport and economic development; and models and methods of analysis.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**GEOG 36065 CITIES AND URBANIZATION (DIVG) 3 Credit Hours**

Course examines what is a city, how it has evolved over time under changing economic conditions, what is its internal structure and how this has been influenced by transportation developments. Special attention is paid to the causes and consequences of social diversity within the city and how cities differ throughout the world.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Diversity Global

**GEOG 37010 GEOGRAPHY OF OHIO 3 Credit Hours**

Study of Ohio as a distinctive region, its environment and the varied characteristics of its population, its historical geographic development and contemporary patterns and problems.

**Prerequisite:** Junior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**GEOG 37040 GEOGRAPHY OF AFRICA (DIVG) 3 Credit Hours**

Course covers the complex geographical and cultural elements in Africa and demonstrates how the interaction of these elements has affected Africa's linkages to other continents, especially North America. Students discuss how this diversity has affected Africa's economic development and political evolution.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Diversity Global

**GEOG 37045 GEOGRAPHY OF THE MIDDLE EAST 3 Credit Hours**

The Middle East is a world region where the interactions between human and physical geographies have shaped its history, culture, economies and population patterns. The course uses a thematic approach to understand these interactions and how they shape the modern Middle East and its relationship with the wider world.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**GEOG 37050 GEOGRAPHY OF RUSSIA AND THE COMMONWEALTH OF INDEPENDENT STATES (DIVG) 3 Credit Hours**

Study of the physical, economical, political and cultural geography of Russia, Ukraine, Central Asia and other components of the former Soviet Union.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Diversity Global

**GEOG 37066 GEOGRAPHY OF EUROPE (DIVG) 3 Credit Hours**

Europe is unique in terms of its historical cultural influence around the world, but over recent decades, Europe has undergone significant change and experienced many struggles. The attempts to integrate have led to significant debates about just what it means to be "European." This course covers Europe using a systematic approach. Students study the physical, political, religious, linguistic, social and economic environments within Europe. In addition, students explore the issues that tie Europeans to each other and to the outside world. Students sum up many of these aspects with case studies of nations or regions that typify the issues that face Europe today.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Diversity Global

**GEOG 37070 GEOGRAPHY OF EAST AND SOUTHEAST ASIA (DIVG) 3 Credit Hours**

Analysis of the physical and cultural geography of East and Southeast Asia, extending from Japan and China to Burma and Indonesia.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Diversity Global

**GEOG 37072 GEOGRAPHY OF CHINA 3 Credit Hours**

Provides an overview of China's physical environment, natural and human resources, social, economic and cultural characteristics, and its roles in today's global environment. Offers a comprehensive view of China's historical development and contemporary trends of growth and how it impacts the United States.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter



**GEOG 37084 GEOGRAPHY OF SOUTH AMERICA (DIVG) 3 Credit Hours**

Overview of region and survey of each country emphasizes systematic similarities and differences in physical environment, culture, economic development, population, land use, politics and history.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Diversity Global

**GEOG 37085 GEOGRAPHY OF LATIN AMERICA AND THE CARIBBEAN (DIVG) 3 Credit Hours**

Latin America and the Caribbean is a traditional geographic region that has been uniquely shaped through multiple physical and cultural factors. Course takes a thematic approach to understanding the interplay of these factors and how they shape modern Latin America-Caribbean identity; the diversity of the environment and culture within the region; and how the region relates to the rest of the world.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Diversity Global

**GEOG 37095 SPECIAL TOPICS IN REGIONAL GEOGRAPHY 3 Credit Hours**

(Repeatable for a maximum of 3 times) Special topics course in a specific region of the world. Topics vary per course offering.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**GEOG 39002 STATISTICAL METHODS IN GEOGRAPHY 3 Credit Hours**

Explores probability theory, spatial statistics, estimation procedures, hypothesis testing, spatial sampling, methods of areal association and regression analysis. Geographic applications are emphasized.

**Prerequisite:** MATH 10041 or MATH 11009 or MATH 11010.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**GEOG 40093 VARIABLE TITLE WORKSHOP IN GEOGRAPHY 1-6 Credit Hours**

(Repeatable for credit) Workshop topics vary per course offering.

**Prerequisite:** Special approval.

**Schedule Type:** Workshop

**Contact Hours:** 1-6 other

**Grade Mode:** Satisfactory/Unsatisfactory

**GEOG 40191 SEMINAR IN GEOGRAPHY (ELR) (WIC) 3 Credit Hours**

(Repeatable for a maximum of 6 credit hours) Advanced study of the historical development of geography and of contemporary issues in the field. Emphasis on methods of geographic investigation and presentation of results.

**Prerequisite:** Geography major; and junior standing.

**Schedule Type:** Seminar

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**Attributes:** Experiential Learning Requirement, Writing Intensive Course

**GEOG 40192 PRACTICUM IN GEOGRAPHY (ELR) 1-3 Credit Hours**  
(Repeatable for credit) Practical experience in using or teaching geographic techniques and/or problem-solving. Faculty supervise the practicum.

**Prerequisite:** Special approval.

**Schedule Type:** Practical Experience

**Contact Hours:** 1-3 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**Attributes:** Experiential Learning Requirement

**GEOG 40195 SPECIAL TOPICS IN GEOGRAPHY 1-3 Credit Hours**

(Repeatable for credit)(Slashed with GEOG 50195 and GEOG 70195)

Topics vary according to research interest of the instructor.

**Prerequisite:** Special approval.

**Schedule Type:** Lecture

**Contact Hours:** 1-3 lecture

**Grade Mode:** Standard Letter

**GEOG 40292 FIELD EXPERIENCE IN GEOGRAPHY (ELR) 1-6 Credit Hours**

(Repeatable for credit)(Slashed with GEOG 50292 and GEOG 70292)

Examination of geographic landscapes in the field.

**Prerequisite:** Special approval.

**Schedule Type:** Field Experience

**Contact Hours:** 12-72 other

**Grade Mode:** Satisfactory/Unsatisfactory

**Attributes:** Experiential Learning Requirement

**GEOG 40392 PRACTICUM IN EMERGING GEOGRAPHIC TRENDS (ELR) 1-6 Credit Hours**

(Repeatable for credit) Students undertake a practicum to examine newly emerging geographic topics and techniques.

**Prerequisite:** Special approval.

**Schedule Type:** Practical Experience

**Contact Hours:** 1-6 other

**Grade Mode:** Satisfactory/Unsatisfactory

**Attributes:** Experiential Learning Requirement

**GEOG 40492 STUDY AWAY IN GEOGRAPHY (ELR) 1-3 Credit Hours**

(Repeatable for maximum 6 attempts)(Slashed with GEOG 50492 and GEOG 70492) Examination of geographic landscapes in the field.

**Prerequisite:** None.

**Schedule Type:** Field Experience

**Contact Hours:** 3-9 other

**Grade Mode:** Standard Letter

**Attributes:** Experiential Learning Requirement

**GEOG 40996 INDIVIDUAL INVESTIGATION IN GEOGRAPHY 1-3 Credit Hours**

(Repeatable for credit) Students undertake an investigation or research on specific geographical problems.

**Prerequisite:** Special approval.

**Schedule Type:** Individual Investigation

**Contact Hours:** 1-3 other

**Grade Mode:** Standard Letter-IP

**GEOG 41051 NATURAL DISASTERS AND SOCIETY 3 Credit Hours**  
(Slashed with GEOG 51051 and GEOG 71051) Study of natural disasters; the physical causes of the hazards associated with the disasters; their effects on humans and societies; spatial and temporal distributions; and strategies to reduce the occurrences of disasters. Natural disasters include hurricanes, tornadoes, floods, landslides, heat waves, wildfire, blizzards, earthquakes, tsunami and volcanoes. Mitigation for disasters and responses to disasters are studied across economically developing nations and developed nations. Students learn through the analysis of numerous case studies of natural disasters.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**GEOG 41052 GLACIERS AND GLACIATION 3 Credit Hours**  
(Slashed with GEOG 51052, GEOG 71052)(Cross-listed with GEOL 44052, GEOL 54052, GEOL 74052) Examination of how glacial ice masses change the shape of the Earth's surface, how they are integral to climate and sea level change, and how they pose high risk hazards.

**Prerequisite:** GEOG 21062 or GEOL 11040.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**GEOG 41065 APPLIED CLIMATOLOGY 3 Credit Hours**  
(Slashed with GEOG 51065 and GEOG 71065) Course aims to provide a full appreciation for the range of applicability of climate data to real-world problems. There are three overarching goals of the course: (1) To provide a broad overview of what weather and climate information is out there and how people synthesize weather and climate information for use in applied work; (2) to enable a thorough appreciation for the breadth of disciplines in which applied climatology plays a role; and (3) to provide real-world experience of working through an applied climatological problem, via a final project.

**Prerequisite:** GEOG 31062 or GEOG 31064.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**GEOG 41066 GLOBAL CLIMATE CHANGE 3 Credit Hours**  
(Slashed with GEOG 51066 and GEOG 71066) Examination of the evidence and causes of climate change and how these data are assessed. Students discuss past, present and future impacts of climate change and variability, in addition to policy implications.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**GEOG 41073 CONSERVATION OF NATURAL RESOURCES 3 Credit Hours**  
(Slashed with GEOG 51073 and GEOG 71073) Evaluation of past and current problems associated with the management of natural resources and the environments associated with their utilization.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**GEOG 41074 RESOURCE GEOGRAPHY 3 Credit Hours**  
(Slashed with GEOG 51074 and GEOG 71074) Culture-technology and distance in relation to resource adequacy and management concepts for societal decisions about common property and situations with external economies.

**Prerequisite:** Junior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**GEOG 41077 WATER AND SOCIETY 3 Credit Hours**  
(Slashed with GEOG 51077 and GEOG 71077) This course examines the relationships between water and the world's population with an emphasis on the developing world (Africa, Asia, Middle East, and Latin America). Students will analyze how water impacts humans and how humans impact water. The course begins by introducing the hydro-social cycle and network theories to provide a foundation and framework to understand the four primary course themes: water policy and governance (including privatization, public-private partnerships, and the various United Nations' global water initiatives), water as power (including social power and how governments politicize water), flooding and droughts (including vulnerabilities, adaptations, and mitigations), and inequalities (including on gender, quality, access, and affordability). The course concludes by revisiting these themes and applying ideas of water justice and sustainability. The course is primarily discussion based with limited lectures to ensure students understand key concepts.

**Prerequisite:** Junior standing or above.

**Schedule Type:** Seminar

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**GEOG 41082 GEOGRAPHY OF SOILS 3 Credit Hours**  
(Slashed with GEOG 51082 and GEOG 71082) An edaphological approach to soils, including morphology, formation, classification, geographical distribution and utilization. Students will be required to undertake field work.

**Prerequisite:** GEOG 21062 or GEOL 11040.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**GEOG 41195 SPECIAL TOPICS IN ENVIRONMENTAL GEOGRAPHY 1-3 Credit Hours**

(Repeatable for a maximum 10 times)(Slashed with GEOG 51195 and GEOG 71195) Topics vary per course offering.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 1-3 lecture

**Grade Mode:** Standard Letter

**GEOG 41800 GLOBAL ENVIRONMENTAL ISSUES 3 Credit Hours**  
(Slashed with GEOG 51800 and GEOG 71800) Course examines environmental belief systems and explores various perceptions of the Earth's environment and its opportunities, constraints and risks. The goals of the course is twofold: (1) develop a framework to allow students to explore both their own relationship to the environment and to understand the sociocultural constructs that have informed their personal environmental beliefs; and (2) apply this knowledge to critically assess various stakeholder perspectives of specific environmental issues.

**Prerequisite:** None.

**Schedule Type:** Seminar

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**GEOG 42040 TOURISM DEVELOPMENT AND RECREATIONAL TRAVEL 3 Credit Hours**

(Cross-listed with RPTM 46000, RPTM 56000) Investigation of travel and tourism development using an interdisciplinary social science approach.

**Prerequisite:** RPTM 36060.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**GEOG 42052 MEDICAL GEOGRAPHY 3 Credit Hours**

(Slashed with GEOG 52052 and GEOG 72052) Course explores the interconnection between geography and health. From a spatial perspective, student consider past and present epidemics, global health risks and their variation, the link between disasters and disease and the factors leading to health disparities.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**GEOG 42053 GEOGRAPHIES OF MEMORY AND HERITAGE 3 Credit Hours**

(Slashed with GEOG 52053 and GEOG 72053) Course gives students a working knowledge in, and ability to understand and analyze, the intersection of memory and landscape as a tangible re-presentation of the human past, oftentimes used as a tangible expression of cultural or political power. Students focus on memorialization, preservation and tourism concepts and themes.

**Prerequisite:** Junior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**GEOG 42064 SETTLING THE NORTH AMERICAN ENVIRONMENT 3 Credit Hours**

(Slashed with GEOG 52064 and GEOG 72064) Course surveys the environmental changes of the North American continent brought about by Indigenous, European Colonial and American land use practices, from pre-Columbian times to present. Students engage with foundational historical narratives, evidence and methods for understanding these geographic pasts. Course is a combination of lectures and discussions of readings and in-class activities.

**Prerequisite:** Junior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**GEOG 42070 SEMINAR IN ETHNIC, LIFESTYLE AND NATIONAL COMMUNITIES 3 Credit Hours**

(Slashed with GEOG 52070 and GEOG 72070) Covers the geographies of ethnic identity and nationalism, national identity and territory, borderlands and diasporas, national separatism and the variety of ways in which cultural difference asserts itself.

**Prerequisite:** Junior standing; and special approval.

**Schedule Type:** Seminar

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**GEOG 42195 SPECIAL TOPICS IN SOCIAL GEOGRAPHY 1-3 Credit Hours**

(Repeatable for maximum 10 times)(Slashed with GEOG 52195 and 72195) Topics vary per course offering.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 1-3 lecture

**Grade Mode:** Standard Letter

**GEOG 44010 GEOGRAPHY OF THE GLOBAL ECONOMY (WIC) 3 Credit Hours**

(Slashed with GEOG 54010 and GEOG 74010) Geographic analysis of the increasing inter-connectedness of economic activity. Students discuss the social, technological and political changes associated with globalization.

**Prerequisite:** ECON 22061 or GEOG 34070.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Writing Intensive Course

**GEOG 44070 SPATIAL ANALYSIS AND LOCATION THEORY 3 Credit Hours**

(Slashed with GEOG 54070 and GEOG 74070) Classical theories for location of economic activities and contemporary approach of spatial analysis, spatial organization of economic systems behavioral models in economic geography spatial allocation problems.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**GEOG 45085 URBAN TRANSPORTATION 3 Credit Hours**

(Slashed with GEOG 55085 and GEOG 75085) Transportation may be the single most important force shaping cities. Historically, cities have depended on their access to ports, canals, railroads and highways. Today, transportation networks, the use of public transportation, provisions for bicycles and pedestrians and transportation architecture continue to define how a city looks, feels and acts.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**GEOG 46070 URBAN AND REGIONAL PLANNING 3 Credit Hours**

(Slashed with GEOG 56070 and GEOG 76070) Examines how cities develop and what "people" – through government, quasi-public institutions and private interests – can do to modify urban growth, the distribution of people and places and urban design.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**GEOG 46080 URBAN SUSTAINABILITY 3 Credit Hours**

(Slashed with GEOG 56080 and GEOG 76080) Provides an introduction to interdisciplinary perspectives on urban sustainability, focusing on environmental challenges caused by urbanization and the innovative ways urban dwellers seek to address those challenges. Course provides background on relevant disciplinary perspectives and their application to environmental challenge domains.

**Prerequisite:** None.

**Schedule Type:** Lecture, Seminar

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**GEOG 46081 SEMINAR IN URBAN GEOGRAPHY 3 Credit Hours**  
(Slashed with GEOG 56081 and GEOG 76081) Through class discussions and readings, students gain a better understanding of the various issues, projects and paradigms that make up the field of urban geography.

**Prerequisite:** Junior standing; and special approval.

**Schedule Type:** Seminar

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**GEOG 46092 INTERNSHIP IN GEOGRAPHY AND PLANNING (ELR) 3-6 Credit Hours**

(Repeatable for credit) Pre-professional work experience in local, regional and environmental planning agencies and in business designed to utilize and develop academic skills. Registration into the course is competitive based on student's skills and interests and on number of positions available.

**Prerequisite:** Special approval.

**Schedule Type:** Practical Experience

**Contact Hours:** 3-6 other

**Grade Mode:** Standard Letter

**Attributes:** Experiential Learning Requirement

**GEOG 49070 GEOGRAPHIC INFORMATION SCIENCE 4 Credit Hours**

(Slashed with GEOG 59070 and GEOG 79070) Introduction to theories and methods for geographic data processing, including data capture and input data storage and management and data analysis and displays. Emphasis is on laboratory exercises using GIS software packages for real-world applications.

**Prerequisite:** None.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 3 lecture, 2 lab

**Grade Mode:** Standard Letter

**GEOG 49072 GEOGRAPHIC INFORMATION SCIENCE AND HEALTH 3 Credit Hours**

(Slashed with GEOG 59072 and GEOG 79072) Geographic theory and methods serve as the connection among disparate disciplines focused on how and why "health" varies between regions, cities and neighborhoods. Students examine how geospatial technologies, especially GIS, have become an important health analysis tool.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**GEOG 49075 GEOGRAPHIC INFORMATION SCIENCE: APPLICATIONS FOR SOCIAL PROBLEMS 3 Credit Hours**

(Slashed with GEOG 59075 and GEOG 79075) Course provides a survey of geographic information system (GIS) and related mapping applications that are used to understand and solve a variety of social problems (e.g., crime, poor health and educational outcomes, exposure to environmental hazards). Through case studies, students learn spatial data acquisition, basic spatial analysis and forms of map-based visual communication to stakeholders and the general public.

**Prerequisite:** GEOG 49070.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**GEOG 49076 SPATIAL PROGRAMMING 3 Credit Hours**

(Slashed with GEOG 59076 and GEOG 79076) Examination of the design, development and use of geographic information technologies with computer programming to model, process and visualize geographic phenomena.

**Prerequisite:** GEOG 49070.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**GEOG 49078 GEOGRAPHIC INFORMATION SCIENCE AND ENVIRONMENTAL HAZARDS 3 Credit Hours**

(Slashed with GEOG 59078 and GEOG 79078) The study and management of natural hazards are inherently reliant on both physical and human processes and spatial patterns. Given the many variables involved and the variety of scales at which they operate, use of geographic information system (GIS) has become standard practice in research on hazards and in their management by government agencies at all levels. Students are exposed to a wide array of spatial data that is used in these activities, as well as standard mapping and spatial analysis procedures and forms of data dissemination.

**Prerequisite:** GEOG 49070.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**GEOG 49080 ADVANCED GEOGRAPHIC INFORMATION SCIENCE 3 Credit Hours**

(Slashed with GEOG 59080 and GEOG 79080) Provides both an overview of geographic information science (GIS) data structures, analytical functions and usage and modeling approaches. Students learn how to manage GIS data in different formats or projections; select GIS analytical tools for solving different problems; and model changes of geographical phenomena as represented by GIS data.

**Prerequisite:** GEOG 49070.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**GEOG 49085 WEB AND MOBILE GEOGRAPHIC INFORMATION SCIENCE 3 Credit Hours**

(Slashed with GEOG 59085 and GEOG 79085) Explores how web and mobile phones present opportunities and challenges to the field of geographic information science (GIS). This includes the examination of the use, design and development of cyberinfrastructure-enabled GIS emphasizing web- and mobile-based interfaces and technologies. Students are recommended to have GIS experience to enroll in the course.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**GEOG 49098 RESEARCH IN GEOGRAPHIC INFORMATION TECHNOLOGY (ELR) 1-3 Credit Hours**

(Repeatable for credit) Students undertake individual research on a topic in geographic information technology.

**Prerequisite:** Special approval.

**Schedule Type:** Research

**Contact Hours:** 1-3 other

**Grade Mode:** Standard Letter-IP

**Attributes:** Experiential Learning Requirement



**GEOG 49162 CARTOGRAPHY 3 Credit Hours**

(Slashed with GEOG 59162 and GEOG 79162) Study of the design and production of dynamic, interactive, multimedia web-based mapping. Data acquisition and processing, symbolization, composition, text and color utilization.

**Prerequisite:** GEOG 49070.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**GEOG 49195 SPECIAL TOPICS IN GEOGRAPHIC INFORMATION SCIENCE 1-3 Credit Hours**

(Repeatable for maximum 10 times)(Slashed with GEOG 59195 and GEOG 79195) Topics vary per course offering.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 1-3 lecture

**Grade Mode:** Standard Letter

**GEOG 49198 RESEARCH IN CARTOGRAPHY AND GEOGRAPHIC INFORMATION SYSTEMS (ELR) 1-3 Credit Hours**

(Repeatable for credit) Students undertake individual research on a topic in cartography or geographic information science (GIS) under the direction of a faculty member.

**Prerequisite:** Special approval.

**Schedule Type:** Research

**Contact Hours:** 1-3 other

**Grade Mode:** Standard Letter

**Attributes:** Experiential Learning Requirement

**GEOG 49230 REMOTE SENSING 3 Credit Hours**

(Cross-listed with GEOL 42030, GEOL 52030, GEOL 72030) (Slashed with GEOG 59230, GEOG 79230) Computer analysis of multispectral satellite datasets. Applications in terrestrial Earth science are emphasized.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**GEOG 50093 VARIABLE TITLE WORKSHOP IN GEOGRAPHY 1-5 Credit Hours**

(Repeatable for credit) Variable title workshop in geography.

**Prerequisite:** Graduate standing.

**Schedule Type:** Workshop

**Contact Hours:** 1-5 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**GEOG 50195 SPECIAL TOPICS IN GEOGRAPHY 1-3 Credit Hours**

(Repeatable for credit)(Slashed with GEOG 40195 and GEOG 70195)

Topics vary according to research interest of the instructor.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 1-3 lecture

**Grade Mode:** Standard Letter

**GEOG 50292 FIELD EXPERIENCE IN GEOGRAPHY 1-6 Credit Hours**

(Repeatable for credit)(Slashed with GEOG 40292 and GEOG 70292)

Examination of geographic landscapes in the field.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Field Experience

**Contact Hours:** 12-72 other

**Grade Mode:** Satisfactory/Unsatisfactory

**GEOG 50392 PRACTICUM IN EMERGING GEOGRAPHIC TRENDS 1-6 Credit Hours**

(Repeatable for credit) Students undertake a practicum examining newly emerging geographic topics and techniques.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Practical Experience

**Contact Hours:** 1-6 other

**Grade Mode:** Satisfactory/Unsatisfactory

**GEOG 50492 STUDY AWAY IN GEOGRAPHY 1-3 Credit Hours**

(Repeatable for maximum 6 attempts)(Slashed with GEOG 40492 and GEOG 70492) Examination of geographic landscapes in the field.

**Prerequisite:** Graduate standing.

**Schedule Type:** Field Experience

**Contact Hours:** 3-9 other

**Grade Mode:** Standard Letter

**GEOG 51051 NATURAL DISASTERS AND SOCIETY 3 Credit Hours**

(Slashed with GEOG 41051 and GEOG 71051) Study of natural disasters; the physical causes of the hazards associated with the disasters; their effects on humans and societies; spatial and temporal distributions; and strategies to reduce the occurrences of disasters. Natural disasters include hurricanes, tornadoes, floods, landslides, heat waves, wildfire, blizzards, earthquakes, tsunami and volcanoes. Mitigation for disasters and responses to disasters are studied across economically developing nations and developed nations. Students learn through the analysis of numerous case studies of natural disasters.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**GEOG 51052 GLACIERS AND GLACIATION 3 Credit Hours**

(Cross-listed with GEOL 54052, GEOL 44052, GEOL 74052) (Slashed with GEOG 41052, GEOG 71052) Examination of how glacial ice masses change the shape of the earth's surface, how they are integral to climate and sea level change, and how they pose high risk hazards.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**GEOG 51065 APPLIED CLIMATOLOGY 3 Credit Hours**

(Slashed with GEOG 41065 and GEOG 71065) Course aims to provide a full appreciation for the range of applicability of climate data to real-world problems. There are three overarching goals of the course: (1) To provide a broad overview of what weather and climate information is out there and how people synthesize weather and climate information for use in applied work; (2) to enable a thorough appreciation for the breadth of disciplines in which applied climatology plays a role; and (3) to provide real-world experience of working through an applied climatological problem, via a final project.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter



**GEOG 51066 GLOBAL CLIMATE CHANGE 3 Credit Hours**

(Slashed with GEOG 41066 and GEOG 71066) Examination of the evidence and causes of climate change and how these data are assessed. Students discuss past, present and future impacts of climate change and variability, in addition to policy implications.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**GEOG 51073 CONSERVATION OF OUR NATURAL RESOURCES 3 Credit Hours**

(Slashed with GEOG 41073 and GEOG 71073) Evaluation of past and current problems associated with the management of natural resources and the environments associated with their utilization.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**GEOG 51074 RESOURCE GEOGRAPHY 3 Credit Hours**

(Slashed with GEOG 41074 and GEOG 71074) Culture-technology and distance in relation to resource adequacy and management concepts for societal decisions about common property and situations with external economies.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**GEOG 51077 WATER AND SOCIETY 3 Credit Hours**

(Slashed with GEOG 41077 and GEOG 71077) This course examines the relationships between water and the world's population with an emphasis on the developing world (Africa, Asia, Middle East, and Latin America). Students will analyze how water impacts humans and how humans impact water. The course begins by introducing the hydro-social cycle and network theories to provide a foundation and framework to understand the four primary course themes: water policy and governance (including privatization, public-private partnerships, and the various United Nations' global water initiatives), water as power (including social power and how governments politicize water), flooding and droughts (including vulnerabilities, adaptations, and mitigations), and inequalities (including on gender, quality, access, and affordability). The course concludes by revisiting these themes and applying ideas of water justice and sustainability. The course is primarily discussion-based with limited lectures to ensure students understand key concepts.

**Prerequisite:** Graduate standing.

**Schedule Type:** Seminar

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**GEOG 51082 GEOGRAPHY OF SOILS 3 Credit Hours**

(Slashed with GEOG 41082 and GEOG 71082) An edaphological approach to soils, including morphology, formation, classification, geographical distribution and utilization. Students will be required to undertake field work.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**GEOG 51195 SPECIAL TOPICS IN ENVIRONMENTAL GEOGRAPHY 1-3 Credit Hours**

(Repeatable for a maximum 10 times)(Slashed with GEOG 41195 and GEOG 71195) Topics vary per course offering.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 1-3 lecture

**Grade Mode:** Standard Letter

**GEOG 51800 GLOBAL ENVIRONMENTAL ISSUES 3 Credit Hours**

(Slashed with GEOG 41800 and GEOG 71800) Course examines environmental belief systems and explores various perceptions of the Earth's environment and its opportunities, constraints and risks. The goals of the course is twofold: (1) develop a framework to allow students to explore both their own relationship to the environment and to understand the sociocultural constructs that have informed their personal environmental beliefs; and (2) apply this knowledge to critically assess various stakeholder perspectives of specific environmental issues.

**Prerequisite:** Graduate standing.

**Schedule Type:** Seminar

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**GEOG 52052 MEDICAL GEOGRAPHY 3 Credit Hours**

(Slashed with GEOG 42052 and GEOG 72052) Course explores the interconnection between geography and health. From a spatial perspective, student consider past and present epidemics, global health risks and their variation, the link between disasters and disease and the factors leading to health disparities.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**GEOG 52053 GEOGRAPHIES OF MEMORY AND HERITAGE 3 Credit Hours**

(Slashed with GEOG 42053 and GEOG 72053) Course gives students a working knowledge in, and ability to understand and analyze, the intersection of memory and landscape as a tangible re-presentation of the human past, oftentimes used as a tangible expression of cultural or political power. Students focus on memorialization, preservation and tourism concepts and themes.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**GEOG 52064 SETTLING THE NORTH AMERICAN ENVIRONMENT 3 Credit Hours**

(Slashed with GEOG 42064 and GEOG 72064) Course surveys the environmental changes of the North American continent brought about by Indigenous, European Colonial and American land use practices, from pre-Columbian times to present. Students engage with foundational historical narratives, evidence and methods for understanding these geographic pasts. Course is a combination of lectures and discussions of readings and in-class activities.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**GEOG 52070 SEMINAR IN ETHNIC, LIFESTYLE AND NATIONAL COMMUNITIES 3 Credit Hours**

(Slashed with GEOG 42070 and GEOG 72070) Covers the geographies of ethnic identity and nationalism, national identity and territory, borderlands and diasporas, national separatism and the variety of ways in which cultural difference asserts itself.

**Prerequisite:** Graduate standing.

**Schedule Type:** Seminar

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**GEOG 52195 SPECIAL TOPICS IN SOCIAL GEOGRAPHY 1-3 Credit Hours**

(Repeatable for a maximum 10 times)(Slashed with GEOG 42195 and GEOG 72195) Topics vary per course offering.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 1-3 lecture

**Grade Mode:** Standard Letter

**GEOG 54010 GEOGRAPHY OF THE GLOBAL ECONOMY 3 Credit Hours**

(Slashed with GEOG 44010 and GEOG 74010) Geographic analysis of the increasing inter-connectedness of economic activity. Students discuss the social, technological and political changes associated with globalization.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**GEOG 54070 SPATIAL ANALYSIS AND LOCATION THEORY 3 Credit Hours**

(Slashed with GEOG 44070 and GEOG 74070) Classical theories for location of economic activities and contemporary approach of spatial analysis, spatial organization of economic systems behavioral models in economic geography and spatial allocation problems.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**GEOG 55085 URBAN TRANSPORTATION 3 Credit Hours**

(Slashed with GEOG 45085 and GEOG 75085) Transportation may be the single most important force shaping cities. Historically, cities have depended on their access to ports, canals, railroads and highways. Today, transportation networks, the use of public transportation, provisions for bicycles and pedestrians and transportation architecture continue to define how a city looks, feels and acts.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**GEOG 56070 URBAN AND REGIONAL PLANNING 3 Credit Hours**

(Slashed with GEOG 46070 and GEOG 76070) Examines how cities develop and what "people" – through government, quasi-public institutions and private interests – can do to modify urban growth, the distribution of people and places and urban design.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**GEOG 56080 URBAN SUSTAINABILITY 3 Credit Hours**

(Slashed with GEOG 46080 and GEOG 76080) Provides an introduction to interdisciplinary perspectives on urban sustainability, focusing on environmental challenges caused by urbanization and the innovative ways urban dwellers seek to address those challenges. Course provides background on relevant disciplinary perspectives and their application to environmental challenge domains.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture, Seminar

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**GEOG 56081 SEMINAR IN URBAN GEOGRAPHY 3 Credit Hours**

(Slashed with GEOG 46081 and GEOG 76081) Through class discussions and readings, students gain a better understanding of the various issues, projects and paradigms that make up the field of urban geography.

**Prerequisite:** Graduate standing.

**Schedule Type:** Seminar

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**GEOG 56092 INTERNSHIP IN GEOGRAPHY AND PLANNING 3-6 Credit Hours**

(Repeatable for credit) Pre-professional work experience in local, regional and environmental planning agencies and private business designed to utilize and develop academic skills.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Practical Experience

**Contact Hours:** 3-6 other

**Grade Mode:** Standard Letter

**GEOG 59070 GEOGRAPHIC INFORMATION SCIENCE 4 Credit Hours**

(Slashed with GEOG 49070 and GEOG 79070) Introduction to theories and methods for geographic data processing, including data capture and input, data storage and management and data analysis and displays. Emphasis is on laboratory exercises using GIS software packages for real-world applications.

**Prerequisite:** Graduate standing.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 3 lecture, 2 lab

**Grade Mode:** Standard Letter

**GEOG 59071 FUNDAMENTALS OF GEOGRAPHIC INFORMATION SCIENCE I 3 Credit Hours**

Introduction to fundamental concepts and methods for geographic data analysis, including data capture and input, data storage and management, and data analysis and display. Emphasis is on applications of GIS software to real world issues.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**GEOG 59072 GEOGRAPHIC INFORMATION SCIENCE AND HEALTH 3 Credit Hours**

(Slashed with GEOG 49072 and GEOG 79072) Geographic theory and methods serve as the connection among disparate disciplines focused on how and why "health" varies between regions, cities and neighborhoods. Students examine how geospatial technologies, especially GIS, have become an important health analysis tool.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**GEOG 59075 GEOGRAPHIC INFORMATION SCIENCE: APPLICATIONS FOR SOCIAL PROBLEMS 3 Credit Hours**

(Slashed with GEOG 49075 and GEOG 79075) Course provides a survey of geographic information system (GIS) and related mapping applications that are used to understand and solve a variety of social problems (e.g., crime, poor health and educational outcomes, exposure to environmental hazards). Through case studies, students learn spatial data acquisition, basic spatial analysis and forms of map-based visual communication to stakeholders and the general public.

**Prerequisite:** GEOG 49070 or GEOG 59070 or GEOG 59071; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**GEOG 59076 SPATIAL PROGRAMMING 3 Credit Hours**

(Slashed with GEOG 49076 and GEOG 79076) Examination of the design, development and use of geographic information technologies with computer programming to model, process and visualize geographic phenomena.

**Prerequisite:** GEOG 59070; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**GEOG 59078 GEOGRAPHIC INFORMATION SCIENCE AND ENVIRONMENTAL HAZARDS 3 Credit Hours**

(Slashed with GEOG 49078 and GEOG 79078) The study and management of natural hazards are inherently reliant on both physical and human processes and spatial patterns. Given the many variables involved and the variety of scales at which they operate, use of geographic information system (GIS) has become standard practice in research on hazards and in their management by government agencies at all levels. Students are exposed to a wide array of spatial data that is used in these activities, as well as standard mapping and spatial analysis procedures and forms of data dissemination.

**Prerequisite:** GEOG 49070 or GEOG 59070 or GEOG 59071; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**GEOG 59080 ADVANCED GEOGRAPHIC INFORMATION SCIENCE 3 Credit Hours**

(Slashed with GEOG 49080 and GEOG 79080) Provides both an overview of geographic information science (GIS) data structures, analytical functions and usage and modeling approaches. Students learn how to manage GIS data in different formats or projections; select GIS analytical tools for solving different problems; and model changes of geographical phenomena as represented by GIS data.

**Prerequisite:** GEOG 59070; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**GEOG 59081 FUNDAMENTALS OF GEOGRAPHIC INFORMATION SCIENCE II 3 Credit Hours**

Advanced theories and techniques for handling and analyzing geographic data, analytical functions and modelling approaches. Topics covered include: two- and three-dimension processing of geographic information, detection of geographic patterns through spatial analysis and spatial statistics, network analysis, modeling of geographic processes and an overview of GIS programming tools.

**Prerequisite:** GEOG 59071; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**GEOG 59085 WEB AND MOBILE GEOGRAPHIC INFORMATION SCIENCE 3 Credit Hours**

(Slashed with GEOG 49085 and GEOG 79085) Explores how web and mobile phones present opportunities and challenges to the field of geographic information science (GIS). This includes the examination of the use, design and development of cyberinfrastructure-enabled GIS emphasizing web- and mobile-based interfaces and technologies. Students are recommended to have GIS experience to enroll in the course.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**GEOG 59162 CARTOGRAPHY 3 Credit Hours**

(Slashed with GEOG 49162 and GEOG 79162) Introduces map design principles including base maps, typography, generalization, symbols, color scheme, and classification. Builds on students' experiences with GIS to focus on applying map design principles using geospatial and graphic design software to produce effective print and static web maps.

**Prerequisite:** GEOG 49070 or GEOG 59070; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**GEOG 59195 SPECIAL TOPICS IN GEOGRAPHIC INFORMATION SCIENCE 1-3 Credit Hours**

(Repeatable for maximum 10 times)(Slashed with GEOG 49195 and GEOG 79195).Topics vary per course offering.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 1-3 lecture

**Grade Mode:** Standard Letter

**GEOG 59230 REMOTE SENSING 3 Credit Hours**

(Cross-listed with GEOL 52030, GEOL 42030, GEOL 72030) (Slashed with GEOG 49230, GEOG 79230) Computer analysis of multispectral satellite datasets. Applications in terrestrial Earth science are emphasized.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**GEOG 60191 SEMINAR IN TOPICAL GEOGRAPHY 3 Credit Hours**

(Repeatable for credit)(Slashed with GEOG 70191) Seminar in one of the major topical fields in geography. Topics vary per course offering.

**Prerequisite:** Graduate standing.

**Schedule Type:** Seminar

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**GEOG 60199 THESIS I 2-6 Credit Hours**

Thesis students must register for a total of 6 hours, 2 to 6 hours in single semester distributed over several semesters if desired.

**Prerequisite:** Graduate standing.

**Schedule Type:** Masters Thesis

**Contact Hours:** 2-6 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**GEOG 60299 THESIS II 2 Credit Hours**

Thesis students must continue registration each semester until all degree requirements are met.

**Prerequisite:** GEOG 60199; and graduate standing.

**Schedule Type:** Masters Thesis

**Contact Hours:** 2 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**GEOG 60800 SEMINAR IN THE DEVELOPMENT OF GEOGRAPHIC THOUGHT 3 Credit Hours**

(Slashed with GEOG 70800) Development of geographic knowledge and concepts with emphasis on recent development. Critical analysis of writings of representative geographers and scientists in related fields.

**Prerequisite:** Graduate standing.

**Schedule Type:** Seminar

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**GEOG 60900 QUALITATIVE RESEARCH METHODS IN GEOGRAPHY 3 Credit Hours**

(Slashed with GEOG 70900) Introduces qualitative methods and research applications, along with methodological considerations of these approaches. Students consider the epistemology of qualitative research and learn the mechanics of conducting this research in the field. In class, these methods are put into practice and the results are put into writing.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**GEOG 60996 RESEARCH IN GEOGRAPHY 1-3 Credit Hours**

(Repeatable for credit) Students undertake individual research problems in geography.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Research

**Contact Hours:** 1-3 other

**Grade Mode:** Standard Letter-IP

**GEOG 60998 RESEARCH I 1-15 Credit Hours**

(Repeatable for credit) Research or individual investigation for master's level graduate students. Credits earned may be applied toward meeting degree requirements if the department approves.

**Prerequisite:** Graduate standing.

**Schedule Type:** Research

**Contact Hours:** 1-15 other

**Grade Mode:** Standard Letter

**GEOG 61998 RESEARCH II 1-15 Credit Hours**

(Repeatable for credit) Research or individual investigation for master's level graduate students. Credits earned may be applied toward meeting degree requirements if the department approves.

**Prerequisite:** Graduate standing.

**Schedule Type:** Research

**Contact Hours:** 1-15 other

**Grade Mode:** Satisfactory/Unsatisfactory

**GEOG 62062 BEHAVIORAL GEOGRAPHY 3 Credit Hours**

(Slashed with GEOG 72062) Course focuses on spatial perception, cognition and behavior. Students discuss the collection and processing of spatial information, behavior in space, location of space and interaction in space.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**GEOG 67091 SEMINAR IN REGIONAL GEOGRAPHY 3 Credit Hours**

(Repeatable for credit)(Slashed with GEOG 77091) Variable content seminar on one of the major regions of world.

**Prerequisite:** Graduate standing.

**Schedule Type:** Seminar

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**GEOG 69004 QUANTITATIVE METHODS IN GEOGRAPHY 3 Credit Hours**

(Slashed with GEOG 79004) Explores the methods and applications of some of the most common statistics found in geographic work. It explores probability theory, spatial statistics, estimation procedures, hypothesis testing, spatial sampling, methods of areal association, correlation and regression analysis, and principal components analysis.

Theory and execution of these methods are equally emphasized, and applications to geographic problems are examined within each theme.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**GEOG 69007 SPATIOTEMPORAL ANALYTICS 3 Credit Hours**

Course equips students with essential spatiotemporal thinking and technical skills in mapping, analyzing, visualizing, communicating and simulating the spatiotemporal data. The software ArcGIS and free packages in R and Netlogo are used in the instruction.

**Prerequisite:** GEOG 49070 or GEOG 59070 or GEOG 59071; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**GEOG 69073 GEOGRAPHIC INFORMATION SCIENCE: GLOBAL HEALTH 3 Credit Hours**

Emerging and re-emerging diseases in non-developed countries pose one of the greatest health challenges of current times. Geospatial approaches often provide one of the only information sources in data poor and challenging environments. The course exposes students to these health issues and disease environments through varied case studies, while simultaneously highlighting the geospatial methods and approaches used to understand and combat disease.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter



**GEOG 69074 GEOGRAPHIC INFORMATION SCIENCE: SPATIAL ANALYSIS FOR HEALTH GEOGRAPHY 3 Credit Hours**

Spatial analysis is used to verify patterns and associations in health data maps. These results can then be used to further hone the scientific question, or help design an intervention strategy. Course introduces students to spatial analytical approaches used by health researchers and practitioners in the exploratory investigation of health data. Students are exposed to new mobile technologies that can be used to enrich more traditional spatial data sources.

**Prerequisite:** GEOG 49070 or GEOG 59070 or GEOG 59071; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**GEOG 69079 ENVIRONMENTAL GEOGRAPHIC INFORMATION SCIENCE 3 Credit Hours**

GPS and environmental spatial data are commonly used in a variety of management and assessment plans in fields related to environmental science to achieve effective decision making and environmental resource management. Course focuses on techniques used to process, manage, visualize and analyze environmental data using GIS. Students learn how to collect and process GPS and online sources of geospatial data and how to employ techniques such as suitability modeling, measuring distributions and calculating landscape metrics.

**Prerequisite:** GEOG 49070 or GEOG 59070 or GEOG 59071; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**GEOG 69082 CYBERGIS 3 Credit Hours**

(Slashed with GEOG 79082) Explores cyberinfrastructure-enabled geographic information systems (i.e. cyberGIS) and related technologies including a broad introduction to the use, design, and development of cyberinfrastructure, spatial data infrastructures, geographic information services, and web-enabled mapping technologies. Situates CyberGIS in the broader context of geographic information science focusing on the how synthesizing computational thinking and spatial thinking influence methodological approaches.

**Prerequisite:** GEOG 49070 or GEOG 59070 or GEOG 59071; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**GEOG 69083 GEODATABASES 3 Credit Hours**

Course explores the essential concepts and skills needed to efficiently create a geodatabase, add data to it and realistically model the real-world spatial relationships inherent to the data. Students learn about geodatabase features that help ensure data integrity over time and about storing and managing geographic data.

**Prerequisite:** GEOG 49070 or GEOG 59070 or GEOG 59071; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**GEOG 69164 CARTOGRAPHIC DESIGN 3 Credit Hours**

Introduces students to the principles of map design and the art of map construction. Students will become familiar with the cartographic process, especially as they apply basic mapping concepts such as scale, projections, typography, generalization, symbols, color scheme, and classification to the design and production of thematic maps. Students will also learn how to describe and manipulate spatial data and how to select an appropriate map type for a given task and data set. This course builds on students' experiences with GIS to focus on the design needed to disseminate information beyond users of the software and produce effective print and web maps. Class exercises will provide hands-on experience in using GIS and graphic software packages. Principles and experiences learned in class will equip students with the fundamental skills necessary to effectively communicate graphic information through maps.

**Prerequisite:** GEOG 49070 or GEOG 59070 or GEOG 59071; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**GEOG 69231 ENVIRONMENTAL REMOTE SENSING 3 Credit Hours**

Introduction to the basic principles of environmental remote sensing, including the electromagnetic spectrum, spectral properties of Earth objects, aerial photograph analysis and interpretation and satellite image analysis and interpretation. Special focus will be on environmental applications, especially as they pertain to understanding vegetation, water, and land use mapping and impacts.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**GEOG 69392 PRACTICUM IN GEOGRAPHIC INFORMATION SCIENCE 6 Credit Hours**

Culminating experience for students in the MGISc program. It will be taken in place of two Carousel/Specialist courses on the schedule for the student's final semester. It is designed to provide practical experience in the application of MGISc course content in real-world professional settings. Students will select a professional project in consultation with their employer and program faculty and then will design, implement, and report on their activities in a culminating professional paper.

**Prerequisite:** GEOG 59070 or GEOG 59071 and GEOG 59080 or GEOG 59081 and GEOG 69164; and two additional graduate-level GEOG courses; and graduate standing; and special approval.

**Schedule Type:** Practical Experience

**Contact Hours:** 18 other

**Grade Mode:** Standard Letter-IP

**GEOG 69701 RESEARCH AND PRESENTATION OF GEOGRAPHIC DATA 3 Credit Hours**

Critical discussion of techniques of geographic research and preparation and presentation of research papers.

**Prerequisite:** Graduate standing.

**Schedule Type:** Seminar

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter



**GEOG 70093 VARIABLE TITLE WORKSHOP IN GEOGRAPHY 1-5 Credit Hours**

(Repeatable for credit) Variable title workshop in geography.

**Prerequisite:** Doctoral standing.**Schedule Type:** Workshop**Contact Hours:** 1-5 other**Grade Mode:** Satisfactory/Unsatisfactory-IP**GEOG 70191 SEMINAR IN TOPICAL GEOGRAPHY 3 Credit Hours**

(Repeatable for credit)(Slashed with GEOG 60191) Seminar in one of the major topical fields in geography. Topics vary per course offering.

**Prerequisite:** Doctoral standing.**Schedule Type:** Seminar**Contact Hours:** 3 other**Grade Mode:** Standard Letter**GEOG 70195 SPECIAL TOPICS IN GEOGRAPHY 1-3 Credit Hours**

(Repeatable for credit)(Slashed with GEOG 40195 and GEOG 50195)

Topics vary according to research interest of the instructor.

**Prerequisite:** Doctoral standing.**Schedule Type:** Lecture**Contact Hours:** 1-3 lecture**Grade Mode:** Standard Letter**GEOG 70292 FIELD EXPERIENCE IN GEOGRAPHY 1-6 Credit Hours**

(Repeatable for credit)(Slashed with GEOG 40292 and GEOG 50292)

Examination of geographic landscapes in the field.

**Prerequisite:** Doctoral standing; and special approval.**Schedule Type:** Field Experience**Contact Hours:** 1-6 other**Grade Mode:** Satisfactory/Unsatisfactory**GEOG 70392 PRACTICUM IN EMERGING GEOGRAPHIC TRENDS 1-6 Credit Hours**

(Repeatable for credit) Students undertake a practicum in examining newly emerging geographic topics and techniques.

**Prerequisite:** Doctoral standing; and special approval.**Schedule Type:** Practical Experience**Contact Hours:** 1-6 other**Grade Mode:** Satisfactory/Unsatisfactory**GEOG 70492 STUDY AWAY IN GEOGRAPHY 1-3 Credit Hours**

(Repeatable for maximum 6 attempts)(Slashed with GEOG 40492 and GEOG 50492) Examination of geographic landscapes in the field.

**Prerequisite:** Doctoral standing.**Schedule Type:** Field Experience**Contact Hours:** 3-9 other**Grade Mode:** Standard Letter**GEOG 70800 SEMINAR IN THE DEVELOPMENT OF GEOGRAPHIC THOUGHT 3 Credit Hours**

(Slashed with GEOG 60800) Development of geographic knowledge and concepts with emphasis on recent development. Critical analysis of writings of representative geographers and scientists in related fields.

**Prerequisite:** Doctoral standing.**Schedule Type:** Seminar**Contact Hours:** 3 other**Grade Mode:** Standard Letter**GEOG 70900 QUALITATIVE RESEARCH METHODS IN GEOGRAPHY 3 Credit Hours**

(Slashed with GEOG 60900) Introduces qualitative methods and research applications, along with methodological considerations of these approaches. Students consider the epistemology of qualitative research and learn the mechanics of conducting this research in the field. In class, these methods are put into practice and the results are put into writing.

**Prerequisite:** Doctoral standing.**Schedule Type:** Lecture**Contact Hours:** 3 lecture**Grade Mode:** Standard Letter**GEOG 71051 NATURAL DISASTERS AND SOCIETY 3 Credit Hours**

(Slashed with GEOG 41051 and GEOG 51051) Study of natural disasters; the physical causes of the hazards associated with the disasters; their effects on humans and societies; spatial and temporal distributions; and strategies to reduce the occurrences of disasters. Natural disasters include hurricanes, tornadoes, floods, landslides, heat waves, wildfire, blizzards, earthquakes, tsunami and volcanoes. Mitigation for disasters and responses to disasters are studied across economically developing nations and developed nations. Students learn through the analysis of numerous case studies of natural disasters.

**Prerequisite:** Doctoral standing.**Schedule Type:** Lecture**Contact Hours:** 3 lecture**Grade Mode:** Standard Letter**GEOG 71052 GLACIERS AND GLACIATION 3 Credit Hours**

(Cross-listed with GEOL 74052, GEOL 44052, GEOL 54052) (Slashed with GEOG 41052, GEOG 51052) Examination of how glacial ice masses change the shape of the earth's surface, how they are integral to climate and sea level change, and how they pose high risk hazards.

**Prerequisite:** Doctoral standing.**Schedule Type:** Lecture**Contact Hours:** 3 lecture**Grade Mode:** Standard Letter**GEOG 71065 APPLIED CLIMATOLOGY 3 Credit Hours**

(Slashed with GEOG 41065 and GEOG 51065) Course aims to provide a full appreciation for the range of applicability of climate data to real-world problems. There are three overarching goals of the course: (1) To provide a broad overview of what weather and climate information is out there and how people synthesize weather and climate information for use in applied work; (2) to enable a thorough appreciation for the breadth of disciplines in which applied climatology plays a role; and (3) to provide real-world experience of working through an applied climatological problem, via a final project.

**Prerequisite:** Doctoral standing.**Schedule Type:** Lecture**Contact Hours:** 3 lecture**Grade Mode:** Standard Letter**GEOG 71066 GLOBAL CLIMATE CHANGE 3 Credit Hours**

(Slashed with GEOG 41066 and GEOG 51066) Examination of the evidence and causes of climate change and how these data are assessed. Students discuss past, present and future impacts of climate change and variability, in addition to policy implications.

**Prerequisite:** Doctoral standing.**Schedule Type:** Lecture**Contact Hours:** 3 lecture**Grade Mode:** Standard Letter

**GEOG 71073 CONSERVATION OF OUR NATURAL RESOURCES 3 Credit Hours**

(Slashed with GEOG 41073 and GEOG 51073) Evaluation of past and current problems associated with the management of natural resources and the environments associated with their utilization.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**GEOG 71074 RESOURCE GEOGRAPHY 3 Credit Hours**

(Slashed with GEOG 41074 and GEOG 51074) Culture-technology and distance in relation to resource adequacy and management concepts for societal decisions about common property and situations with external economies.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**GEOG 71077 WATER AND SOCIETY 3 Credit Hours**

(Slashed with GEOG 41077 and GEOG 51077) This course examines the relationships between water and the world's population with an emphasis on the developing world (Africa, Asia, Middle East, and Latin America). Students will analyze how water impacts humans and how humans impact water. The course begins by introducing the hydro-social cycle and network theories to provide a foundation and framework to understand the four primary course themes: water policy and governance (including privatization, public-private partnerships, and the various United Nations' global water initiatives), water as power (including social power and how governments politicize water), flooding and droughts (including vulnerabilities, adaptations, and mitigations), and inequalities (including on gender, quality, access, and affordability). The course concludes by revisiting these themes and applying ideas of water justice and sustainability. The course is primarily discussion-based with limited lectures to ensure students understand key concepts.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Seminar

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**GEOG 71082 GEOGRAPHY OF SOILS 3 Credit Hours**

(Slashed with GEOG 41082 and GEOG 51082) An edaphological approach to soils, including morphology, formation, classification, geographical distribution and utilization. Students will be required to undertake field work.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**GEOG 71195 SPECIAL TOPICS IN ENVIRONMENTAL GEOGRAPHY 1-3 Credit Hours**

(Repeatable for a maximum 10 times)(Slashed with GEOG 41195 and GEOG 51195) Topics vary per course offering.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 1-3 lecture

**Grade Mode:** Standard Letter

**GEOG 71800 GLOBAL ENVIRONMENTAL ISSUES 3 Credit Hours**

(Slashed with GEOG 41800 and GEOG 51800) Course examines environmental belief systems and explores various perceptions of the Earth's environment and its opportunities, constraints and risks. The goals of the course is twofold: (1) develop a framework to allow students to explore both their own relationship to the environment and to understand the sociocultural constructs that have informed their personal environmental beliefs; and (2) apply this knowledge to critically assess various stakeholder perspectives of specific environmental issues.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Seminar

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**GEOG 72052 MEDICAL GEOGRAPHY 3 Credit Hours**

(Slashed with GEOG 42052 and GEOG 52052) Course explores the interconnection between geography and health. From a spatial perspective, student consider past and present epidemics, global health risks and their variation, the link between disasters and disease and the factors leading to health disparities.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**GEOG 72053 GEOGRAPHIES OF MEMORY AND HERITAGE 3 Credit Hours**

(Slashed with GEOG 42053 and GEOG 52053) Course gives students a working knowledge in, and ability to understand and analyze, the intersection of memory and landscape as a tangible re-presentation of the human past, oftentimes used as a tangible expression of cultural or political power. Students focus on memorialization, preservation and tourism concepts and themes.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**GEOG 72062 BEHAVIORAL GEOGRAPHY 3 Credit Hours**

(Slashed with GEOG 62062) Course focuses on spatial perception, cognition and behavior. Students discuss the collection and processing of spatial information, behavior in space, location of space and interaction in space.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**GEOG 72064 SETTLING THE NORTH AMERICAN ENVIRONMENT 3 Credit Hours**

(Slashed with GEOG 42064 and GEOG 52064) Course surveys the environmental changes of the North American continent brought about by Indigenous, European Colonial and American land use practices, from pre-Columbian times to present. Students engage with foundational historical narratives, evidence and methods for understanding these geographic pasts. Course is a combination of lectures and discussions of readings and in-class activities.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**GEOG 72070 SEMINAR IN ETHNIC, LIFESTYLE AND NATIONAL COMMUNITIES 3 Credit Hours**

(Slashed with GEOG 42070 and GEOG 52070) Covers the geographies of ethnic identity and nationalism, national identity and territory, borderlands and diasporas, national separatism and the variety of ways in which cultural difference asserts itself.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Seminar

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**GEOG 72195 SPECIAL TOPICS IN SOCIAL GEOGRAPHY 1-3 Credit Hours**

(Repeatable for maximum of 10 times)(Slashed with GEOG 42195 and GEOG 52195) Topics vary per course offering.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 1-3 lecture

**Grade Mode:** Standard Letter

**GEOG 74010 GEOGRAPHY OF THE GLOBAL ECONOMY 3 Credit Hours**

(Slashed with GEOG 44010 and GEOG 54010) Geographic analysis of the increasing inter-connectedness of economic activity. Students discuss the social, technological and political changes associated with globalization.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**GEOG 74070 SPATIAL ANALYSIS AND LOCATION THEORY 3 Credit Hours**

(Slashed with GEOG 44070 and GEOG 54070) Classical theories for location of economic activities and contemporary approach of spatial analysis, spatial organization of economic systems, behavioral models in economic geography and spatial allocation problems.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**GEOG 75085 URBAN TRANSPORTATION 3 Credit Hours**

(Slashed with GEOG 45085 and GEOG 55085) Transportation may be the single most important force shaping cities. Historically, cities have depended on their access to ports, canals, railroads and highways. Today, transportation networks, the use of public transportation, provisions for bicycles and pedestrians and transportation architecture continue to define how a city looks, feels and acts.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**GEOG 76070 URBAN AND REGIONAL PLANNING 3 Credit Hours**

(Slashed with GEOG 46070 and GEOG 56070) Examines how cities develop and what "people" – through government, quasi-public institutions and private interests – can do to modify urban growth, the distribution of people and places and urban design.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**GEOG 76080 URBAN SUSTAINABILITY 3 Credit Hours**

(Slashed with GEOG 46080 and GEOG 56080) Provides an introduction to interdisciplinary perspectives on urban sustainability, focusing on environmental challenges caused by urbanization and the innovative ways urban dwellers seek to address those challenges. Course provides background on relevant disciplinary perspectives and their application to environmental challenge domains.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture, Seminar

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**GEOG 76081 SEMINAR IN URBAN GEOGRAPHY 3 Credit Hours**

(Slashed with GEOG 46081 and GEOG 56081) Through class discussions and readings, students gain a better understanding of the various issues, projects and paradigms that make up the field of urban geography.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Seminar

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**GEOG 77091 SEMINAR IN REGIONAL GEOGRAPHY 3 Credit Hours**

(Repeatable for credit)(Slashed with GEOG 67091) Variable content seminar on one of the major regions of world.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Seminar

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**GEOG 79004 QUANTITATIVE METHODS IN GEOGRAPHY 3 Credit Hours**

(Slashed with GEOG 69004) Explores the methods and applications of some of the most common statistics found in geographic work. It explores probability theory, spatial statistics, estimation procedures, hypothesis testing, spatial sampling, methods of areal association, correlation and regression analysis, and principal components analysis.

Theory and execution of these methods are equally emphasized, and applications to geographic problems are examined within each theme.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**GEOG 79070 GEOGRAPHIC INFORMATION SCIENCE 4 Credit Hours**

(Slashed with GEOG 49070 and GEOG 59070) Introduction to theories and methods for geographic data processing, including data capture and input, data storage and management and data analysis and displays. Emphasis is on laboratory exercises using GIS software packages for real-world applications.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 3 lecture, 2 lab

**Grade Mode:** Standard Letter

**GEOG 79072 GEOGRAPHIC INFORMATION SCIENCE AND HEALTH 3 Credit Hours**

(Slashed with GEOG 49072 and GEOG 59072) Geographic theory and methods serve as the connection among disparate disciplines focused on how and why "health" varies between regions, cities and neighborhoods. Students examine how geospatial technologies, especially GIS, have become an important health analysis tool.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**GEOG 79075 GEOGRAPHIC INFORMATION SCIENCE: APPLICATIONS FOR SOCIAL PROBLEMS 3 Credit Hours**

(Slashed with GEOG 49075 and GEOG 59075) Course provides a survey of geographic information system (GIS) and related mapping applications that are used to understand and solve a variety of social problems (e.g., crime, poor health and educational outcomes, exposure to environmental hazards). Through case studies, students learn spatial data acquisition, basic spatial analysis and forms of map-based visual communication to stakeholders and the general public.

**Prerequisite:** GEOG 79070; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**GEOG 79076 SPATIAL PROGRAMMING 3 Credit Hours**

(Slashed with GEOG 49076 and GEOG 59076) Examination of the design, development and use of geographic information technologies with computer programming to model process and visualize geographic phenomena.

**Prerequisite:** GEOG 79070; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**GEOG 79078 GEOGRAPHIC INFORMATION SCIENCE AND ENVIRONMENTAL HAZARDS 3 Credit Hours**

(Slashed with GEOG 49078 and GEOG 59078) The study and management of natural hazards are inherently reliant on both physical and human processes and spatial patterns. Given the many variables involved and the variety of scales at which they operate, use of geographic information system (GIS) has become standard practice in research on hazards and in their management by government agencies at all levels. Students are exposed to a wide array of spatial data that is used in these activities, as well as standard mapping and spatial analysis procedures and forms of data dissemination.

**Prerequisite:** GEOG 79070; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**GEOG 79080 ADVANCED GEOGRAPHIC INFORMATION SCIENCE 3 Credit Hours**

(Slashed with GEOG 49080 and GEOG 59080) Provides both an overview of geographic information science (GIS) data structures, analytical functions and usage and modeling approaches. Students learn how to manage GIS data in different formats or projections; select GIS analytical tools for solving different problems; and model changes of geographical phenomena as represented by GIS data.

**Prerequisite:** GEOG 79070; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**GEOG 79082 CYBERGIS 3 Credit Hours**

(Slashed with GEOG 69082) Explores cyberinfrastructure-enabled geographic information systems (i.e. cyberGIS) and related technologies including a broad introduction to the use, design, and development of cyberinfrastructure, spatial data infrastructures, geographic information services, and web-enabled mapping technologies. Situates cyberGIS in the broader context of geographic information science focusing on the how synthesizing computational thinking and spatial thinking influence methodological approaches.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**GEOG 79085 WEB AND MOBILE GEOGRAPHIC INFORMATION SCIENCE 3 Credit Hours**

(Slashed with GEOG 49085 and GEOG 59085) Explores how web and mobile phones present opportunities and challenges to the field of geographic information science (GIS). This includes the examination of the use, design and development of cyberinfrastructure-enabled GIS emphasizing web- and mobile-based interfaces and technologies. Students are recommended to have GIS experience to enroll in the course.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**GEOG 79162 CARTOGRAPHY 3 Credit Hours**

(Slashed with GEOG 49162 and GEOG 59162) Study of the design and production of dynamic, interactive, multimedia web-based mapping. Data acquisition and processing, symbolization, composition, text and color utilization.

**Prerequisite:** GEOG 49070 or GEOG 59070 or GEOG 79070; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**GEOG 79195 SPECIAL TOPICS IN GEOGRAPHIC INFORMATION SCIENCE 1-3 Credit Hours**

(Repeatable for maximum 10 times)(Slashed with GEOG 49195 and GEOG 59195). Topics vary per course offering.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 1-3 lecture

**Grade Mode:** Standard Letter

**GEOG 79230 REMOTE SENSING 3 Credit Hours**

(Cross-listed with GEOL 72030, GEOL 42030, GEOL 52030)(Slashed with GEOG 49230, GEOG 59230) Computer analysis of multispectral satellite datasets. Applications in terrestrial Earth science are emphasized.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter



**GEOG 80199 DISSERTATION I 15 Credit Hours**

(Repeatable for credit) Doctoral dissertation, for which registration in at least two semesters is required first of which will be semester in which dissertation work is begun and continuing until the completion of 30 hours.

**Prerequisite:** Doctoral standing; and special approval.

**Schedule Type:** Dissertation

**Contact Hours:** 15 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**GEOG 80299 DISSERTATION II 15 Credit Hours**

(Repeatable for credit) Continuing registration required of doctoral students who have completed the initial 30 hours of dissertation and continuing until all degree requirements are met.

**Prerequisite:** GEOG 80199; and doctoral standing.

**Schedule Type:** Dissertation

**Contact Hours:** 15 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**GEOG 80998 RESEARCH I 1-15 Credit Hours**

(Repeatable for credit) Research or individual investigation for doctoral students who have not yet passed their candidacy examination. Credits earned may be applied toward degree if department approves.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Research

**Contact Hours:** 1-15 other

**Grade Mode:** Standard Letter

**GEOG 81091 RESEARCH IN PHYSICAL RESOURCES 2,3 Credit Hours**

(Repeatable for credit) Research on basic processes related to formation of physical environment. Investigation of significant variables in resource utilization relevant to regional planning and development.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Research

**Contact Hours:** 2-3 other

**Grade Mode:** Standard Letter-IP

**GEOG 81998 RESEARCH II 1-15 Credit Hours**

(Repeatable for credit) Research or individual investigation for doctoral students who have not yet passed their candidacy examination. Credits earned may be applied toward degree if department approves.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Research

**Contact Hours:** 1-15 other

**Grade Mode:** Satisfactory/Unsatisfactory

**GEOG 89092 GRADUATE FIELD CAMP 5 Credit Hours**

(Repeatable for credit) Field research problems involving individual investigation of specific urban or rural region.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Field Experience

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**GEOG 89098 RESEARCH IN CARTOGRAPHY 1-3 Credit Hours**

(Repeatable for credit) Investigations into function of map as medium of scientific expression; problem of map design in relation to human perception of graphically expressed spatial information.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Research

**Contact Hours:** 1-3 other

**Grade Mode:** Standard Letter

## Department of Geology

### Geology (GEOL)

**GEOG 11040 HOW THE EARTH WORKS (KBS) 3 Credit Hours**

Explores processes that shape Earth's landscapes (e.g., volcanism, flooding, landslides, sea-level rise, mountain building) and that are of vital interest to humans (e.g., earthquakes, groundwater, energy and mineral resources, climate change).

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Kent Core Basic Sciences, TAG Science, Transfer Module Natural Sciences

**GEOG 11041 HOW THE EARTH WORKS LABORATORY (KBS) (KLAB) 1 Credit Hour**

Students study earth materials (e.g., mineral crystals, common and unusual rock specimens) and Google Earth images. Students conduct experiments demonstrating processes at earth's surface such as groundwater pollution, flooding and earthquakes.

**Pre/corequisite:** GEOG 11040.

**Schedule Type:** Laboratory

**Contact Hours:** 3 lab

**Grade Mode:** Standard Letter

**Attributes:** Kent Core Basic Sciences, Kent Core Basic Sciences Lab, TAG Science, Transfer Module Natural Sciences

**GEOG 11042 EARTH AND LIFE THROUGH TIME (KBS) 3 Credit Hours**

Explores major events in the history of Earth, including mass extinctions, Snowball Earth hypothesis, birth and death of oceans, growth of continents, explosion of life, dinosaurs and the inter-relatedness of earth and life processes.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Kent Core Basic Sciences, TAG Science, Transfer Module Natural Sciences

**GEOG 11043 EARTH AND LIFE THROUGH TIME LABORATORY (KBS) (KLAB) 1 Credit Hour**

Student conduct lab experiments with fossils, rocks and sedimentary features, a river process simulator and the concept of deep time.

**Pre/corequisite:** GEOG 11042.

**Schedule Type:** Laboratory

**Contact Hours:** 3 lab

**Grade Mode:** Standard Letter

**Attributes:** Kent Core Basic Sciences, Kent Core Basic Sciences Lab, TAG Science, Transfer Module Natural Sciences

**GEOG 21062 ENVIRONMENTAL EARTH SCIENCE (KBS) 3 Credit Hours**

Application of Earth science to environmental problems, including natural resource extraction, water supply, pollution, waste disposal, landslides, floods and land use planning. Students take local field trips.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Kent Core Basic Sciences, Transfer Module Natural Sciences



**GEOL 21080 ALL ABOUT THE OCEANS (KBS) 3 Credit Hours**

Explores the many fascinating (and some still little known) features and processes of the Earth's oceans, including mid-ocean ridges, hydrothermal vents, tsunamis, tides, rogue waves, marine life and the role of the ocean in climate change.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Kent Core Basic Sciences, Transfer Module Natural Sciences

**GEOL 22000 DEGREE AND CAREER PATHS IN GEOLOGY (ELR) 1 Credit Hour**

Provides students with an overview of career paths and opportunities in the Geology and Earth Science majors. Components of the course include a journal club; informational presentations by geoscientists in industry, government and academia; and skills training needed for the majors.

Required overnight field trip.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 1 lecture

**Grade Mode:** Standard Letter

**Attributes:** Experiential Learning Requirement

**GEOL 23063 EARTH MATERIALS I 4 Credit Hours**

Occurrence, associations, characteristics, crystallography and crystal chemistry of common minerals. Laboratory identification emphasizing physical properties. Required field trip.

**Prerequisite:** GEOL 11040 and GEOL 11041.

**Pre/corequisite:** CHEM 10060.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 5 other

**Grade Mode:** Standard Letter

**Attributes:** TAG Science

**GEOL 31070 EARTH MATERIALS II (WIC) 4 Credit Hours**

Occurrence and origin of igneous, sedimentary and metamorphic rocks. Laboratory identification, description and classification of hand specimens. Required field trip.

**Prerequisite:** GEOL 23063.

**Schedule Type:** Laboratory, Lecture

**Contact Hours:** 3 lecture, 2 lab

**Grade Mode:** Standard Letter

**Attributes:** Writing Intensive Course

**GEOL 31080 STRUCTURAL GEOLOGY 4 Credit Hours**

Mechanical principles of rock deformation. Structures in sedimentary igneous and metamorphic rocks. Lecture three hours lab two hours weekly. Required field trip.

**Prerequisite:** None.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 5 other

**Grade Mode:** Standard Letter

**GEOL 32066 GEOMORPHOLOGY 4 Credit Hours**

Earth's surface features as functions of geological structures, processes and time. Landform analysis using topographic maps and some stereographic aerial photos. Trigonometry recommended.

**Prerequisite:** GEOL 11040 and GEOL 11041.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 4 other

**Grade Mode:** Standard Letter

**GEOL 33025 WATER AND THE ENVIRONMENT 3 Credit Hours**

How water moves on the surface and in the subsurface, with an emphasis on societal issues such as pollution, the conservation and management of water resources, and the impacts of environmental change.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**GEOL 34061 PRINCIPLES OF PALEONTOLOGY 4 Credit Hours**

Concepts applied to study of commonly preserved invertebrate organisms; identification of common North American fossils. Required field trip.

**Prerequisite:** GEOL 11042 and GEOL 11043.

**Corequisite:** BSCI 10002 or BSCI 10110.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 5 other

**Grade Mode:** Standard Letter

**GEOL 40093 VARIABLE TITLE WORKSHOP IN GEOLOGY 1-8 Credit Hours**

(Repeatable for credit)(Slashed with GEOL 50093 and GEOL 70093) Workshop and/or training program focused on a specific professional or disciplinary topic.

**Prerequisite:** Special approval.

**Schedule Type:** Workshop

**Contact Hours:** 1-8 other

**Grade Mode:** Satisfactory/Unsatisfactory

**GEOL 40095 SELECTED TOPICS IN GEOLOGY 1-3 Credit Hours**

(Slashed with GEOL 50095)(Repeatable for credit) Selected topics presented by visiting professors or one-time offerings presented by regular faculty.

**Prerequisite:** 20 credit hours of GEOL courses.

**Schedule Type:** Lecture

**Contact Hours:** 1-3 lecture

**Grade Mode:** Standard Letter

**GEOL 40096 INDIVIDUAL INVESTIGATION IN GEOLOGY 1-3 Credit Hours**

(Repeatable for credit) Directed field, laboratory and/or library research. Written report required. Maximum 3 credit hours applied toward bachelor's degree.

**Prerequisite:** Special approval.

**Schedule Type:** Individual Investigation

**Contact Hours:** 1-3 other

**Grade Mode:** Standard Letter-IP

**GEOL 40380 BIOGEOCHEMISTRY 3 Credit Hours**

(Cross-listed with BSCI 40380, BSCI 50380 and BSCI 70380) (Slashed with GEOL 50380) Biogeochemistry explores the chemical, physical, geological, and biological processes and reactions that shape the world around us, and provides tools for understanding human alterations to global systems. In this course, we will explore elemental cycles in diverse terrestrial and aquatic ecosystems, as well as assess how humans have drastically altered these elemental cycles on a global scale, and the implications of these changes for biological systems.

**Prerequisite:** Minimum C- grade in the following courses BSCI 10110 and BSCI 10120 or GEOL 11040 and (GEOL 11042 or GEOL 21062 or GEOL 21080); and CHEM 10060 and CHEM 10062.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**GEOL 41025 GENERAL GEOPHYSICS 3 Credit Hours**

(Slashed with GEOL 51025) Physics of Earth, seismology, geomagnetism, heat flow, radioactivity, geochronology, geotectonic models. Required field trip.

**Prerequisite:** GEOL 31070 and GEOL 31080 and MATH 12002; and PHY 13001 or PHY 23101.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**GEOL 41073 GEOLOGY OF OHIO 3 Credit Hours**

(Slashed with GEOL 51073) Minerals, rocks, fossils, structural geology, physiography, environmental geology and geologic resources. Required field trips. Does not count toward the Geology major.

**Prerequisite:** Junior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**GEOL 41077 GEOLOGY OF THE NATIONAL PARKS 3 Credit Hours**

(Slashed with GEOL 51077) Introduction to the geology of selected major national parks, emphasizing basic geological principles and the processes that have produced the spectacular scenery, rocks and fossils in each park. Does not count toward the Geology major.

**Prerequisite:** Junior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**GEOL 41079 ALL ABOUT DINOSAURS 3 Credit Hours**

(Slashed with GEOL 51079) Dinosaurs (and some relatives) and their world, emphasizing how to interpret evidence concerning their history, biology and evolutionary relationships. Does not count toward the Geology major.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**GEOL 41080 TECTONICS AND OROGENY 3 Credit Hours**

(Slashed with GEOL 51080) Introduces advanced concepts of plate tectonics and mountain building, with emphasis on Western United States and the Appalachians. Required field trip to New England.

**Prerequisite:** GEOL 31080.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**GEOL 41082 ADVANCED STRUCTURAL GEOLOGY 3 Credit Hours**

(Slashed with GEOL 51082) Theoretical and applied studies in structural geology, including mechanical, mathematical, model and field investigations. Required field trip.

**Prerequisite:** GEOL 31080.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**GEOL 41085 MASS EXTINCTIONS: CAUSES AND CONSEQUENCES 3 Credit Hours**

Investigation of causes and consequences of extinction to marine and terrestrial ecosystems using paleontological, geochemical, sedimentological, and stratigraphical information; emphasizing an Earth System Science approach to the Big Five mass extinctions as well as the possible 6th Extinction occurring now.

**Prerequisite:** Junior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**GEOL 41092 SUMMER FIELD CAMP (ELR) 6 Credit Hours**

(Repeatable for credit)(Slashed with GEOL 51092) Five weeks devoted to geologic mapping and solving structural and stratigraphic problems in the Black Hills of South Dakota.

**Prerequisite:** GEOL 31070 and GEOL 31080.

**Schedule Type:** Practical Experience

**Contact Hours:** 42 other

**Grade Mode:** Standard Letter

**Attributes:** Experiential Learning Requirement

**GEOL 42030 REMOTE SENSING 3 Credit Hours**

(Cross-listed with GEOG 49230)(Slashed with GEOL 52030, GEOL 72030, GEOG 59230, GEOG 79230) Computer analysis of multispectral satellite datasets. Applications in terrestrial Earth science are emphasized.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**GEOL 42035 SCIENTIFIC METHODS IN GEOLOGY 3 Credit Hours**

(Slashed with GEOL 52035) Applying scientific methods to geologic data in the field and laboratory; models and sampling procedures. Collecting and analyzing data. Formulating and testing hypotheses. Provides background necessary for upper-division geology courses.

**Prerequisite:** None.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 2 lecture, 2 lab

**Grade Mode:** Standard Letter

**GEOL 42036 PHYSICAL HYDROGEOLOGY LABORATORY 1 Credit Hour**

(Slashed with GEOL 52036) Laboratory course offering fundamental training for professional hydrogeologists. Required weekend field trip.

**Prerequisite:** Junior standing.

**Corequisite:** GEOL 42066.

**Schedule Type:** Laboratory

**Contact Hours:** 2 lab

**Grade Mode:** Standard Letter

**GEOL 42065 WATERSHED HYDROLOGY 3 Credit Hours**

(Slashed with GEOL 52065) Study of water movement, storage and transformation across landscapes.

**Prerequisite:** Junior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**GEOL 42066 PHYSICAL HYDROGEOLOGY 3 Credit Hours**

(Slashed with GEOL 52066) Principles of water flow in hydrologic cycle, soil and aquifer hydraulic properties, groundwater flow, surface water-groundwater interactions and geochemical evolution of groundwater. Application of principles for evaluation of water resources; emphasizing utilization, conservation and management of groundwater resources in a changing environment.

**Prerequisite:** MATH 12002 or higher MATH course; and junior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**GEOL 42067 INTRODUCTORY HYDROGEOLOGY 3 Credit Hours**

(Slashed with GEOL 52067) Occurrence of ground water in geologic materials; emphasizing utilization, conservation and management of ground water resources.

**Prerequisite:** Junior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**GEOL 42068 CONTAMINANT HYDROLOGY AND HYDROGEOLOGY 3 Credit Hours**

(Slashed with GEOL 52068) An introduction to the basic principles of chemical and physical behavior of contaminants introduced by humans into the environment. Students are expected to understand concepts and work practical quantitative problems.

**Prerequisite:** CHEM 10060 and CHEM 10061 and CHEM 10062 and CHEM 10063 and GEOL 42067.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**GEOL 42069 HYDROGEOCHEMISTRY 3 Credit Hours**

(Slashed with GEOL 52069 and GEOL 72069) Processes and evolution of the chemical composition of water in the natural hydrologic cycle. Methods of hydrochemical interpretation applied to ground water and pollution problems.

**Prerequisite:** 10 credit hours of CHEM courses.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**GEOL 42074 ENVIRONMENTAL CORE AND WELL LOGGING 3 Credit Hours**

(Slashed with GEOL 52074) Examination of subsurface processes and the distribution of stratigraphic layers using core and well-logging techniques and based on analysis of physical properties of sediment, rock and pore fluids. Applications to paleoclimate, hydrogeology, engineering geology, oil and gas exploration and environmental remediation.

**Prerequisite:** GEOL 31070.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**GEOL 42078 ENGINEERING GEOLOGY 4 Credit Hours**

(Slashed with GEOL 52078) Engineering properties of soils and rocks. Site evaluation for building foundations, dams, tunnels and highways. Slope stability.

**Prerequisite:** Geology or Earth Science major; and junior standing.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 4 other

**Grade Mode:** Standard Letter

**GEOL 43040 PRINCIPLES OF GEOCHEMISTRY 3 Credit Hours**

(Slashed with GEOL 53040) Introduction to chemical thermodynamics and its applications in solving geochemical problems. Distributions of elements and isotopes in the Earth and laws governing these distributions.

**Prerequisite:** CHEM 10060 and CHEM 10061 and GEOL 31070 and MATH 12002.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**GEOL 43042 ENVIRONMENTAL GEOCHEMISTRY 3 Credit Hours**

(Slashed with GEOL 53042 and GEOL 73042) Explores chemical processes that influence the natural environment, including anthropogenic impacts. Topics include atmospheric chemistry and air pollution, energy and climate change, toxic organic compounds, water chemistry and water pollution, metals, soils, sediments and waste disposal. Environmental problem-solving using steady state and non-steady state box models, thermodynamics and energy transfer and chemical reactions and equilibria. Required half-day field trip.

**Prerequisite:** CHEM 10060 and CHEM 10061.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**GEOL 43043 ENVIRONMENTAL MINERALOGY 3 Credit Hours**

(Slashed with GEOL 53043) Explores reactions between minerals and aqueous solutions, focusing on their role in chemical weathering, contaminant mobility, microbe-mineral interactions and an understanding of mineral-water interface processes and mechanisms at the molecular level. Through a series of case studies, the course explores the societal impacts of environmental contaminants and the potential role of remediation.

**Prerequisite:** GEOL 23063; and junior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**GEOL 43044 ENVIRONMENTAL ISOTOPES 3 Credit Hours**

(Slashed with GEOL 53044 and GEOL 73044) Deals with the fundamentals of isotope geochemistry and the application of primarily light stable isotopes (H, O, C, N) to Earth system processes (involving the hydrosphere, biosphere and upper geosphere).

**Prerequisite:** CHEM 10060 and CHEM 10061.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**GEOL 44025 GEOLOGIC HAZARDS AND DISASTERS 3 Credit Hours**

(Slashed with GEOL 44025) Explores the geological processes that drive a broad range of different natural hazards (including earthquakes, volcanoes, landslides and floods), and how they interact with human behavior to produce geological risks and disasters. Through discussion of historical and topical events, students focus on the dual challenges of combining uncertain and incomplete information from various geological and historical sources into realistic assessments of future risks; and the communication of accurate, relevant, actionable information about these risks to the public and authorities.

**Prerequisite:** Junior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**GEOL 44052 GLACIERS AND GLACIATION 3 Credit Hours**

(Cross-listed with GEOG 41052, GEOG 51052, GEOG 71052)(Slashed with GEOL 54052, GEOL 74052) Examination of how glacial ice masses change the shape of the earth's surface, how they are integral to climate and sea level change, and how they pose high risk hazards.

**Prerequisite:** GEOG 21062 or GEOL 11040.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**GEOL 44070 SEDIMENTOLOGY AND STRATIGRAPHY 4 Credit Hours**

(Slashed with GEOL 54070) Students are introduced to the principles regarding the systematics of sedimentary rocks and the relationships between geologic formations at various spatial and temporal scales.

Lectures are integrated with readings from the open literature and required labs and field trips.

**Prerequisite:** GEOL 31070.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 3 lecture, 2 lab

**Grade Mode:** Standard Letter

**GEOL 44072 MARINE PROCESSES 3 Credit Hours**

(Slashed with GEOL 54072) This course is an exploration of the mechanisms (geological, physical, chemical, and biological) through which the ocean operates, and how it influences climate on seasonal, inter-annual, glacial-interglacial and over deep time. Emphasis will be placed on understanding the relative importance of these processes and how they have varied through time, and the potential outcomes of human-induced changes to these processes.

**Prerequisite:** Special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**GEOL 44074 PALEOCEANOGRAPHY 3 Credit Hours**

(Slashed with GEOL 54074) A broad spectrum of geological approaches. Paleontology, geochemistry and stratigraphy are employed to interpret the history of earth's oceans.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**GEOL 50093 VARIABLE TITLE WORKSHOP IN GEOLOGY 1-8 Credit Hours**

(Repeatable for credit)(Slashed with GEOL 40093 and GEOL 70093) Workshop or training program focused on a specific professional or disciplinary topic within geology.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Workshop

**Contact Hours:** 1-8 other

**Grade Mode:** Satisfactory/Unsatisfactory

**GEOL 50095 SELECTED TOPICS IN GEOLOGY 1-3 Credit Hours**

(Slashed with GEOL 50095)(Repeatable for credit) Selected topics presented by visiting professors or one-time offerings presented by regular faculty.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 1-3 lecture

**Grade Mode:** Standard Letter

**GEOL 50380 BIOGEOCHEMISTRY 3 Credit Hours**

(Cross-listed with BSCI 40380, BSCI 50380 and BSCI 70380) (Slashed with GEOL 40380) Biogeochemistry explores the chemical, physical, geological, and biological processes and reactions that shape the world around us, and provides tools for understanding human alterations to global systems. In this course, we will explore elemental cycles in diverse terrestrial and aquatic ecosystems, as well as assess how humans have drastically altered these elemental cycles on a global scale, and the implications of these changes for biological systems.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**GEOL 51025 GENERAL GEOPHYSICS 3 Credit Hours**

(Slashed with GEOL 51025) Physics of Earth, seismology, geomagnetism, heat flow, radioactivity, geochronology, geotectonic models. Required field trip.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**GEOL 51073 GEOLOGY OF OHIO 3 Credit Hours**

(Slashed with GEOL 41073) Minerals, rocks, fossils, structural geology, physiography, environmental geology and geologic resources. Required field trips. Does not count toward the Geology major.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**GEOL 51077 GEOLOGY OF THE NATIONAL PARKS 3 Credit Hours**

(Slashed with GEOL 41077) Introduction to the geology of selected major national parks, emphasizing basic geological principles and the processes that have produced the spectacular scenery, rocks and fossils in each park. Does not count toward the Geology major.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**GEOL 51079 ALL ABOUT DINOSAURS 3 Credit Hours**

(Slashed with GEOL 41079) Dinosaurs (and some relatives) and their world, emphasizing how to interpret evidence concerning their history, biology and evolutionary relationships. Does not count toward the Geology major.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**GEOL 51080 TECTONICS AND OROGENY 3 Credit Hours**

(Slashed with GEOL 41080) Introduces advanced concepts of plate tectonics and mountain building, with emphasis on Western United States and the Appalachians. Required field trip to New England.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter



**GEOL 51082 ADVANCED STRUCTURAL GEOLOGY 3 Credit Hours**  
(Slashed with GEOL 41082) Theoretical and applied studies in structural geology, including mechanical, mathematical, model and field investigations. Required field trip.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**GEOL 51092 SUMMER FIELD CAMP 6 Credit Hours**  
(Repeatable for credit)(Slashed with GEOL 41092) Five weeks devoted to geologic mapping and solving structural and stratigraphic problems in the Black Hills of South Dakota.

**Prerequisite:** Graduate standing.

**Schedule Type:** Practical Experience

**Contact Hours:** 42 other

**Grade Mode:** Standard Letter-IP

**GEOL 52030 REMOTE SENSING 3 Credit Hours**  
(Cross-listed with GEOG 51052, GEOG 41052, GEOG 71052) (Slashed with GEOL 42030, GEOL 72030) Computer analysis of multispectral satellite datasets. Applications in terrestrial Earth science are emphasized.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**GEOL 52035 SCIENTIFIC METHODS IN GEOLOGY 3 Credit Hours**  
(Slashed with GEOL 42035) Applying scientific methods to geologic data in the field and laboratory; models and sampling procedures. Collecting and analyzing data. Formulating and testing hypotheses.

**Prerequisite:** Graduate standing.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 2 lecture, 2 lab

**Grade Mode:** Standard Letter

**GEOL 52036 PHYSICAL HYDROGEOLOGY LAB 1 Credit Hour**  
(Slashed with GEOL 52036) Laboratory course offering fundamental training for professional hydrogeologists. Required weekend field trip.

**Prerequisite:** Graduate standing.

**Corequisite:** GEOL 52066.

**Schedule Type:** Laboratory

**Contact Hours:** 2 lab

**Grade Mode:** Standard Letter

**GEOL 52065 WATERSHED HYDROLOGY 3 Credit Hours**  
(Slashed with GEOL 42065) Study of water movement, storage and transformation across landscapes.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**GEOL 52066 PHYSICAL HYDROGEOLOGY 3 Credit Hours**  
(Slashed with GEOL 42066) Principles of water flow in hydrologic cycle, soil and aquifer hydraulic properties, groundwater flow, surface water-groundwater interactions and geochemical evolution of groundwater. Application of principles for evaluation of water resources; emphasizing utilization, conservation and management of groundwater resources in a changing environment.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**GEOL 52067 INTRODUCTORY HYDROGEOLOGY 3 Credit Hours**  
(Slashed with GEOL 42067) Occurrence of ground water in geologic materials; emphasizing utilization, conservation and management of ground water resources.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**GEOL 52068 CONTAMINANT HYDROLOGY AND HYDROGEOLOGY 3 Credit Hours**  
(Slashed with GEOL 42068) An introduction to the basic principles of chemical and physical behavior of contaminants introduced by humans into the environment. Students are expected to understand concepts and work practical quantitative problems.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**GEOL 52069 HYDROGEOCHEMISTRY 3 Credit Hours**  
(Slashed with GEOL 42069 and GEOL 72069) Processes and evolution of the chemical composition of water in the natural hydrologic cycle. Methods of hydrochemical interpretation applied to ground water and pollution problems.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**GEOL 52074 ENVIRONMENTAL CORE AND WELL LOGGING 3 Credit Hours**  
(Slashed with GEOL 42074) Examination of subsurface processes and the distribution of stratigraphic layers using core and well-logging techniques and based on analysis of physical properties of sediment, rock and pore fluids. Applications to paleoclimate, hydrogeology, engineering geology, oil and gas exploration and environmental remediation.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**GEOL 52078 ENGINEERING GEOLOGY 4 Credit Hours**  
(Slashed with GEOL 42078) Engineering properties of soils and rocks. Site evaluation for building foundations, dams, tunnels and highways. Slope stability.

**Prerequisite:** Graduate standing.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 4 other

**Grade Mode:** Standard Letter

**GEOL 53040 PRINCIPLES OF GEOCHEMISTRY 3 Credit Hours**  
(Slashed with GEOL 43040) Introduction to chemical thermodynamics and its applications in solving geochemical problems. Distributions of elements and isotopes in the Earth and laws governing these distributions.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter



**GEOL 53042 ENVIRONMENTAL GEOCHEMISTRY 3 Credit Hours**

(Slashed with GEOL 43042 and GEOL 73042) Explores chemical processes that influence the natural environment, including anthropogenic impacts. Topics include atmospheric chemistry and air pollution, energy and climate change, toxic organic compounds, water chemistry and water pollution, metals, soils, sediments and waste disposal. Environmental problem-solving using steady state and non-steady state box models, thermodynamics and energy transfer and chemical reactions and equilibria. Required half-day field trip.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**GEOL 53043 ENVIRONMENTAL MINERALOGY 3 Credit Hours**

(Slashed with GEOL 43043) Explores reactions between minerals and aqueous solutions, focusing on their role in chemical weathering, contaminant mobility, microbe-mineral interactions and an understanding of mineral-water interface processes and mechanisms at the molecular level. Through a series of case studies, the course explores the societal impacts of environmental contaminants and the potential role of remediation.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**GEOL 53044 ENVIRONMENTAL ISOTOPES 3 Credit Hours**

(Slashed with GEOL 43044 and GEOL 73044) Deals with the fundamentals of isotope geochemistry and the application of primarily light stable isotopes (H, O, C, N) to Earth system processes (involving the hydrosphere, biosphere and upper geosphere).

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**GEOL 54025 GEOLOGIC HAZARDS AND DISASTERS 3 Credit Hours**

(Slashed with GEOL 44025) Explores the geological processes that drive a broad range of different natural hazards (including earthquakes, volcanoes, landslides and floods), and how they interact with human behavior to produce geological risks and disasters. Through discussion of historical and topical events, students focus on the dual challenges of combining uncertain and incomplete information from various geological and historical sources into realistic assessments of future risks; and the communication of accurate, relevant, actionable information about these risks to the public and authorities.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**GEOL 54052 GLACIERS AND GLACIATION 3 Credit Hours**

(Cross-listed with GEOG 51052, GEOG 41052, GEOG 71052)(Slashed with GEOL 44052, GEOL 74052) Examination of how glacial ice masses change the shape of the earth's surface, how they are integral to climate and sea level change and how they pose high risk hazards.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**GEOL 54070 SEDIMENTOLOGY AND STRATIGRAPHY 4 Credit Hours**

(Slashed with GEOL 44070) Students are introduced to the principles regarding the systematics of sedimentary rocks and the relationships between geologic formations at various spatial and temporal scales. Lectures are integrated with readings from the open literature and required labs and field trips.

**Prerequisite:** Graduate standing.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 3 lecture, 2 lab, 1 other

**Grade Mode:** Standard Letter

**GEOL 54072 MARINE PROCESSES 3 Credit Hours**

(Slashed with GEOL 44072) This course is an exploration of the mechanisms (geological, physical, chemical, and biological) through which the ocean operates, and how it influences climate on seasonal, inter-annual, glacial-interglacial and over deep time. Emphasis will be placed on understanding the relative importance of these processes and how they have varied through time, and the potential outcomes of human-induced changes to these processes.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**GEOL 54074 PALEOCEANOGRAPHY 3 Credit Hours**

(Slashed with GEOL 44074) A broad spectrum of geological approaches. Paleontology, geochemistry and stratigraphy are employed to interpret the history of earth's oceans.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**GEOL 60080 RESEARCH ORIENTATION 1 Credit Hour**

(Slashed with GEOL 70080) Faculty research presentations; thesis/dissertation proposal preparation; discussion of professional organizations, preparation of manuscripts and oral presentation of papers.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 1 lecture

**Grade Mode:** Satisfactory/Unsatisfactory

**GEOL 60084 GEOLOGY GRADUATE STUDENT ORIENTATION 1 Credit Hour**

(Slashed with GEOL 70084) Introduction to departmental resources, procedures and expectations, as well as approaches to successfully conduct research at a graduate level. Training and experience in presentation of data and college teaching of applied geology, as well as a discussion forum on professional ethics and responsibilities.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 1 lecture

**Grade Mode:** Satisfactory/Unsatisfactory

**GEOL 60091 SEMINAR 1-2 Credit Hours**

(Repeatable for credit)(Slashed with GEOL 70091) Topics in geology varies per course offering.

**Prerequisite:** Graduate standing.

**Schedule Type:** Seminar

**Contact Hours:** 1-2 other

**Grade Mode:** Standard Letter

**GEOL 60095 SELECTED TOPICS IN GEOLOGY 1-3 Credit Hours**

(Repeatable for credit) Selected topics presented by visiting professors or one-time offerings presented by regular faculty.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 1-3 lecture

**Grade Mode:** Standard Letter

**GEOL 60098 RESEARCH 1-15 Credit Hours**

(Repeatable for credit) Research for master's level students. Credits earned may be applied toward degree if department approves.

**Prerequisite:** Graduate standing.

**Schedule Type:** Research

**Contact Hours:** 1-15 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**GEOL 60199 THESIS I 2-6 Credit Hours**

Thesis students must register for a total of 6 hours, 2 to 6 hours in a single semester distributed over several semesters if desired.

**Prerequisite:** Graduate standing.

**Schedule Type:** Masters Thesis

**Contact Hours:** 2-6 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**GEOL 60299 THESIS II 2 Credit Hours**

Thesis students must continue registration each semester until all degree requirements are met.

**Prerequisite:** GEOL 60199; and graduate standing.

**Schedule Type:** Masters Thesis

**Contact Hours:** 2 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**GEOL 61093 WORKSHOP IN COLLEGE TEACHING 1-2 Credit Hours**

(Repeatable for credit) (Slashed with GEOL 71093) Workshop in college teaching.

**Prerequisite:** Graduate standing.

**Schedule Type:** Workshop

**Contact Hours:** 1-2 other

**Grade Mode:** Satisfactory/Unsatisfactory

**GEOL 62011 HYDROLOGY 3 Credit Hours**

(Slashed with GEOL 72011) Introduction to hydrologic measurements, properties of water precipitation, evapotranspiration runoff computations, streamflow and flood routing.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**GEOL 62068 ADVANCED HYDROGEOLOGY 3 Credit Hours**

(Slashed with GEOL 72068) Quantitative approach to occurrence of ground water; methods of investigation, evaluation and development of ground water resources emphasizing optimization and maximal exploitation without environmental changes.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**GEOL 62079 ADVANCED ENGINEERING GEOLOGY 3 Credit Hours**

(Slashed with GEOL 72079) Role of geology in site selection, design and construction relative to dams, tunnels, highways, slope stability and nuclear power plants. Selected case histories. Field trip and term paper required.

**Prerequisite:** GEOL 52078; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**GEOL 62082 INTRODUCTION TO SOIL MECHANICS 4 Credit Hours**

(Slashed with GEOL 72082) Engineering properties and engineering behavior of soils, including classification properties, compaction permeability strength and compressibility.

**Prerequisite:** Graduate standing.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 5 other

**Grade Mode:** Standard Letter

**GEOL 62083 ROCK SLOPE STABILITY 3 Credit Hours**

(Slashed with GEOL 72083) Provide information used to recognize, avoid, design for, control and correct slope movements in rocks; determination of shear strength along rock discontinuities; stability analysis of rock slopes.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**GEOL 62084 FOUNDATION ENGINEERING 3 Credit Hours**

(Slashed with GEOL 72084) Seepage and drainage of foundation soils. Subsurface investigations. Principles, design and construction of shallow and deep foundations. Earth retaining structures.

**Prerequisite:** GEOL 52078 or GEOL 72082; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**GEOL 63063 SEDIMENTARY PETROLOGY 3 Credit Hours**

(Slashed with GEOL 73063) Classification, texture, composition, provenance and diagenesis of sandstones and carbonates, following review of optical mineralogy. Petrographic microscopy and other laboratory techniques are emphasized.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**GEOL 64028 PALEOECOLOGY 3 Credit Hours**

(Slashed with GEOL 74028) Relationships between ancient organisms and their environments, as interpreted from fossils, enclosing rock strata and recent analogs. Field and laboratory studies. Saturday field trips.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**GEOL 64030 SYSTEMATIC INVERTEBRATE PALEONTOLOGY I 3 Credit Hours**

(Slashed with GEOL 74030) Detailed investigation and examination of important literature concerning taxonomic characters of invertebrate phyla: Protista, Porifera, Cnidaria and Bryozoa. Numerous oral reports, specimen examination.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**GEOL 64032 SYSTEMATIC INVERTEBRATE PALEONTOLOGY II 3 Credit Hours**

(Slashed with GEOL 74032) Detailed investigation and examination of important literature concerning taxonomic characters of invertebrate phyla: Brachiopoda, Mollusca, Arthropoda and Echinodermata. Numerous oral reports, specimen examination.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**GEOL 64036 CENOZOIC CLIMATE CHANGE 3 Credit Hours**

(Slashed with GEOL 74036) An overview of the concepts and principles involved in interpreting global and hemispheric Cenozoic climate change (past 65 million years). Emphasis on particular temporal and spatial scales and cycles. Extensive reading in scientific journals.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**GEOL 64038 PALEOLIMNOLOGY 3 Credit Hours**

(Slashed with GEOL 74038) An overview of significant topics and applications in paleolimnology of Holocene (last 10,000 years) and Pleistocene (last two million years) records, including current issues in environmental and climatic reconstruction. Extensive reading expected.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**GEOL 70080 RESEARCH ORIENTATION 1 Credit Hour**

(Slashed with GEOL 60080) Faculty research presentations; thesis/dissertation proposal preparation; discussion of professional organizations, preparation of manuscripts and oral presentation of papers.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 1 lecture

**Grade Mode:** Satisfactory/Unsatisfactory

**GEOL 70084 GEOLOGY GRADUATE STUDENT ORIENTATION 1 Credit Hour**

(Slashed with GEOL 60084) Introduction to departmental resources, procedures and expectations, as well as approaches to successfully conduct research at a graduate level. Training and experience in presentation of data and college teaching of applied geology, as well as discussion forum on professional ethics and responsibilities.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 1 lecture

**Grade Mode:** Satisfactory/Unsatisfactory

**GEOL 70091 SEMINAR 1-2 Credit Hours**

(Repeatable for credit)(Slashed with GEOL 60091) Topics in geology varies per course offering.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Seminar

**Contact Hours:** 1-2 other

**Grade Mode:** Standard Letter

**GEOL 70093 VARIABLE TITLE WORKSHOP IN GEOLOGY 1-8 Credit Hours**

(Repeatable for credit)(Slashed with GEOL 40093 and GEOL 50093) Workshop and/or training program, of varying duration focused on a specific professional or disciplinary topic.

**Prerequisite:** Doctoral standing; and special approval.

**Schedule Type:** Workshop

**Contact Hours:** 1-8 other

**Grade Mode:** Satisfactory/Unsatisfactory

**GEOL 71093 WORKSHOP IN COLLEGE TEACHING 1-2 Credit Hours**

(Repeatable for credit)(Slashed with GEOL 61093) Workshop in college teaching.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Workshop

**Contact Hours:** 1-2 other

**Grade Mode:** Satisfactory/Unsatisfactory

**GEOL 72011 HYDROLOGY 3 Credit Hours**

(Slashed with GEOL 62011) Introduction to hydrologic measurements, properties of water precipitation, evapotranspiration, runoff computations, streamflow and flood routing.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**GEOL 72030 REMOTE SENSING 3 Credit Hours**

(Cross-listed with GEOG 71052, GEOG 41052, GEOG 51052) (Slashed with GEOL 42030, GEOL 52030) Computer analysis of multispectral satellite datasets. Applications in terrestrial Earth science are emphasized.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**GEOL 72068 ADVANCED HYDROGEOLOGY 3 Credit Hours**

(Slashed with GEOL 62068) Quantitative approach to occurrence of ground water; methods of investigation evaluation and development of ground water resources emphasizing optimization and maximal exploitation without environmental changes.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**GEOL 72069 HYDROGEOCHEMISTRY 3 Credit Hours**

(Slashed with GEOL 42069 and GEOL 52069) Processes and evolution of the chemical composition of water in the natural hydrologic cycle. Methods of hydrochemical interpretation applied to ground water and pollution problems.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**GEOL 72079 ADVANCED ENGINEERING GEOLOGY 3 Credit Hours**  
(Slashed with GEOL 62079) Role of geology in site selection, design and construction relative to dams, tunnels, highways, slope stability and nuclear power plants. Selected case histories. Field trip and term paper required.

**Prerequisite:** GEOL 52078; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**GEOL 72082 INTRODUCTION TO SOIL MECHANICS 4 Credit Hours**  
(Slashed with GEOL 62082) Engineering properties and engineering behavior of soils, including classification properties, compaction permeability strength and compressibility.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 5 other

**Grade Mode:** Standard Letter

**GEOL 72083 ROCK SLOPE STABILITY 3 Credit Hours**  
(Slashed with GEOL 62083) Provide information used to recognize, avoid, design for control and correct slope movements in rocks; determination of shear strength along rock discontinuities; stability analysis of rock slopes.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**GEOL 72084 FOUNDATION ENGINEERING 3 Credit Hours**  
(Slashed with GEOL 62084) Seepage and drainage of foundation soils. Subsurface investigations. Principles, design and construction of shallow and deep foundations. Earth retaining structures.

**Prerequisite:** GEOL 52078 or GEOL 72082; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**GEOL 73042 ENVIRONMENTAL GEOCHEMISTRY 3 Credit Hours**  
(Slashed with GEOL 43042 and GEOL 53042) Explores chemical processes that influence the natural environment, including anthropogenic impacts. Topics include atmospheric chemistry and air pollution, energy and climate change, toxic organic compounds, water chemistry and water pollution, metals, soils, sediments and waste disposal. Environmental problem-solving using steady state and non-steady state box models, thermodynamics and energy transfer and chemical reactions and equilibria. Required half-day field trip.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**GEOL 73044 ENVIRONMENTAL ISOTOPES 3 Credit Hours**  
(Slashed with GEOL 43044 and GEOL 53044) Deals with the fundamentals of isotope geochemistry and the application of primarily light stable isotopes (H, O, C, N) to Earth system processes (involving the hydrosphere, biosphere and upper geosphere).

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**GEOL 73063 SEDIMENTARY PETROLOGY 3 Credit Hours**  
(Slashed with GEOL 63063) Classification, texture, composition, provenance and diagenesis of sandstones and carbonates, following review of optical mineralogy. Petrographic microscopy and other laboratory techniques are emphasized.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**GEOL 74028 PALEOECOLOGY 3 Credit Hours**  
(Slashed with GEOL 64028) Relationships between ancient organisms and their environments, as interpreted from fossils, enclosing rock strata and recent analogs. Field and laboratory studies. Saturday field trips.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**GEOL 74030 SYSTEMATIC INVERTEBRATE PALEONTOLOGY I 3 Credit Hours**  
(Slashed with GEOL 64030) Detailed investigation and examination of important literature concerning taxonomic characters of invertebrate phyla: Protista, Porifera, Cnidaria and Bryozoa. Numerous oral reports, specimen examination.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**GEOL 74032 SYSTEMATIC INVERTEBRATE PALEONTOLOGY II 3 Credit Hours**  
(Slashed with GEOL 64032) Detailed investigation and examination of important literature concerning taxonomic characters of invertebrate phyla: Brachiopoda, Mollusca, Arthropoda and Echinodermata. Numerous oral reports, specimen examination.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**GEOL 74036 CENOZOIC CLIMATE CHANGE 3 Credit Hours**  
(Slashed with GEOL 64036) An overview of the concepts and principles involved in interpreting global and hemispheric Cenozoic climate change (past 65 million years). Emphasis on particular temporal and spatial scales and cycles. Extensive reading in scientific journals.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**GEOL 74038 PALEOLIMNOLOGY 3 Credit Hours**  
(Slashed with GEOL 64038) An overview of significant topics and applications in paleolimnology of Holocene (last 10,000 years) and Pleistocene (last two million years) records, including current issues in environmental and climatic reconstruction. Extensive reading expected.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**GEOL 74052 GLACIERS AND GLACIATION 3 Credit Hours**  
 (Cross-listed with GEOG 71052, GEOG 41052, GEOG 51052) (Slashed with GEOL 44052, GEOL 54052) Examination of how glacial ice masses change the shape of the earth's surface, how they are integral to climate and sea level change and how they pose high risk hazards.  
**Prerequisite:** Doctoral standing.  
**Schedule Type:** Lecture  
**Contact Hours:** 3 lecture  
**Grade Mode:** Standard Letter

**GEOL 80095 ADVANCED TOPICS IN GEOLOGY 1-3 Credit Hours**  
 (Repeatable for credit) Advanced topics presented by visiting professors or one-time offerings presented by regular faculty.  
**Prerequisite:** Doctoral standing; and special approval.  
**Schedule Type:** Lecture  
**Contact Hours:** 1-3 lecture  
**Grade Mode:** Standard Letter

**GEOL 80098 RESEARCH 1-15 Credit Hours**  
 (Repeatable for credit) Research for doctoral students. Credits earned may be applied toward degree with departmental approval.  
**Prerequisite:** Doctoral standing.  
**Schedule Type:** Research  
**Contact Hours:** 1-15 other  
**Grade Mode:** Satisfactory/Unsatisfactory-IP

**GEOL 80199 DISSERTATION I 15 Credit Hours**  
 (Repeatable for credit) Doctoral dissertation, for which registration in at least two semesters is required first of which will be semester in which dissertation work is begun and continuing until the completion of 30 hours. rerequisite: Admission to candidacy for doctoral degree; and doctoral standing.  
**Schedule Type:** Dissertation  
**Contact Hours:** 15 other  
**Grade Mode:** Satisfactory/Unsatisfactory-IP

**GEOL 80299 DISSERTATION II 15 Credit Hours**  
 (Repeatable for credit) Continuing registration required of doctoral students who have completed the initial 30 hours of dissertation, continuing until all degree requirements are met.  
**Prerequisite:** GEOL 80199; and doctoral standing.  
**Schedule Type:** Dissertation  
**Contact Hours:** 15 other  
**Grade Mode:** Satisfactory/Unsatisfactory-IP

## Department of History

### History (HIST)

**HIST 11050 WORLD HISTORY: ANCIENT AND MEDIEVAL (DIVG) (KHUM) 3 Credit Hours**  
 World history from early human societies through the mid-17th century.  
**Prerequisite:** None.  
**Schedule Type:** Lecture  
**Contact Hours:** 3 lecture  
**Grade Mode:** Standard Letter  
**Attributes:** Diversity Global, Kent Core Humanities, TAG History, Transfer Module Humanities

**HIST 11051 WORLD HISTORY: MODERN (DIVG) (KHUM) 3 Credit Hours**  
 World history from mid-17th century to the present.  
**Prerequisite:** None.  
**Schedule Type:** Lecture  
**Contact Hours:** 3 lecture  
**Grade Mode:** Standard Letter  
**Attributes:** Diversity Global, Kent Core Humanities, TAG History, Transfer Module Humanities

**HIST 12070 EARLY AMERICA: FROM PRE-COLONIZATION TO CIVIL WAR AND RECONSTRUCTION (DIVD) (KHUM) 3 Credit Hours**  
 A survey of United States history through 1877.  
**Prerequisite:** None.  
**Schedule Type:** Lecture  
**Contact Hours:** 3 lecture  
**Grade Mode:** Standard Letter  
**Attributes:** Diversity Domestic, Kent Core Humanities, TAG History, Transfer Module Humanities

**HIST 12071 MODERN AMERICA: FROM INDUSTRIALIZATION TO GLOBALIZATION (DIVD) (KHUM) 3 Credit Hours**  
 A survey of United States history since 1877.  
**Prerequisite:** None.  
**Schedule Type:** Lecture  
**Contact Hours:** 3 lecture  
**Grade Mode:** Standard Letter  
**Attributes:** Diversity Domestic, Kent Core Humanities, TAG History, Transfer Module Humanities

**HIST 31020 POLIS TO METROPOLIS: HISTORY OF THE EUROPEAN CITY 3 Credit Hours**  
 This course examines urban identities in Europe from antiquity to the present including Greek and Roman cities; medieval cities, city leagues and city law; early modern planned communities, court residences, and commercial metropolises; eighteenth- and nineteenth-century resort towns, nineteenth-century capital cities and industrial cities; the devastation of the World Wars and post-war reconstruction. The course will examine cities as 'windows' into the societies they serve; the fortunes and misfortunes of cities will be treated as mirrors of regional economic, political, and social trends. The thematic focus of the course will be on the political 'message' encoded in architecture, design and layout and the course will interpret the outward face of cities as an expression of political identity, power, and even civic virtù. This course will be offered primarily at the Stark campus.  
**Prerequisite:** Sophomore standing.  
**Schedule Type:** Lecture  
**Contact Hours:** 3 lecture  
**Grade Mode:** Standard Letter



**HIST 31022 THE GREAT POWERS IN WAR AND PEACE, 1792-1914 3 Credit Hours**

This course focuses on the nineteenth-century origins of present-day international problems - from risks of unilateralism to the debt crisis of developing countries to the nationalist tendencies in the Balkans to the question of whether a united Germany is compatible with the European equilibrium. Second, this course looks at how nineteenth-century statecraft dealt with issues that still clutter the headlines today such as peacemaking and peacekeeping, the erosion of treaties, alliances among unequal partners, and crisis management. Third, the course will point to the importance of global linkages (i.e. how events in one area of the world were linked to developments in another and how the Balkans, the Middle East, Africa, and East Asia became flashpoints in the foreign relations of Great Powers. This course will be offered primarily at the Stark campus.

**Prerequisite:** Sophomore standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HIST 31024 WORLD WAR II 3 Credit Hours**

Survey of one of the greatest political and military events in history, focusing especially on causes, major personalities and chief political, ideological, moral, scientific and diplomatic aspects.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HIST 31027 HISTORY OF ENGLAND TO 1688 3 Credit Hours**

Survey of medieval and early modern England. Topics include Norman Conquest, medieval culture and society, Reformation, Age of Elizabeth, English Revolution.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HIST 31028 ENGLAND SINCE 1688 3 Credit Hours**

Survey of national development from the Glorious Revolution through the Second World War, with special attention to leaders, prominent individuals and problems of change.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HIST 31030 NATO: THE ENDURING ALLIANCE 3 Credit Hours**

Examination of the historical and contemporary roles of the North Atlantic Treaty Organization.

**Prerequisite:** Junior standing; or special approval of instructor.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HIST 31031 THE PROTESTANT AND CATHOLIC REFORMATIONS 3 Credit Hours**

Comprehensive course dealing with the religious, political, economic and social change accompanying the religious upheavals of the 16th century.

**Prerequisite:** Junior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HIST 31032 SEVENTEENTH-CENTURY EUROPE 3 Credit Hours**

This course will analyze those political, economic, social, religious and intellectual factors leading to economic crisis and civil wars in Europe.

**Prerequisite:** Junior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HIST 31033 WITCHES AND EUROPEAN HISTORY, 1500-1800 3 Credit Hours**

This course explores fifteenth- through seventeenth-century European witch-hunts and their decline in the eighteenth century through lecture and class discussions of both primary and secondary sources. The course has four parts. The first investigates the development of notions of diabolical witchcraft from the ancient world, while Part two examines the intellectual, gender, religious, social and legal backgrounds that helped cause witch-hunts. The final sections explore the dynamics of witchcraft trials. The final section explores the decline of witchcraft.

**Prerequisite:** Sophomore standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HIST 31035 THE GLOBAL COLD WAR 3 Credit Hours**

Explores the Cold War through a global lens. Includes political, diplomatic, cultural, and social perspectives.

**Prerequisite:** Junior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HIST 31036 THE TWENTIETH CENTURY WORLD 3 Credit Hours**

This course explores the key political, cultural, social, and economic events that defined and shaped the twentieth century. Topics to be addressed will include imperialism, revolution and war, nationalism and decolonization, and globalization.

**Prerequisite:** Sophomore standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HIST 31040 AMERICAN HISTORY THROUGH POPULAR MUSIC 3 Credit Hours**

Allows students to develop an understanding of the interconnection between the rise of popular music in the period after 1865 to the social, political, and technological changes that this period witnessed and how this helps to understand the meaning and significance of cultural identity in modern American history.

**Prerequisite:** Sophomore standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HIST 31041 SPORT HISTORY IN THE UNITED STATES 3 Credit Hours**

This course will examine and interpret American sports from the colonial era to the present with particular attention to the role of sports in American life and how changes in American life have affected sports. The course also offers an exploration of American social and cultural history with an emphasis on issues such as race, class, gender, foreign policy, nationalism, religion, economics, industrialization, immigration and urbanization as they relate to sports. It is not a course of sports trivia. The main goal of the course is to use sports as a way to better understand American history and American culture. This course will be offered primarily at the Stark campus.

**Prerequisite:** Sophomore standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HIST 31045 A HISTORY OF CRIME IN THE UNITED STATES 3 Credit Hours**

This course will explore the history of 'living outside the law' in the nineteenth and twentieth centuries. We will read biographical and autobiographical treatments of and monographs about men and women who committed crimes in these centuries and use them as a lens through which to view the changing experiences, constraints, and self-understandings of people who committed crimes in United States history. Some sections of this course may be offered as part of the Inside Out Program in which the course will take place in a nearby prison or jail and will include students who are incarcerated.

**Prerequisite:** Sophomore standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HIST 31050 HISTORY AND SOCIETY OF MODERN GREECE 3 Credit Hours**

Study of modern Greece concentrating on political, economic, cultural and societal developments since 1821.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HIST 31052 HISTORY OF MODERN FRANCE 3 Credit Hours**

Survey of French history from 1815 to the present. Topics include industrialization, republicanism and revolution, the experience of war and defeat, empire and decolonization.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HIST 31053 MODERN EUROPE, 1815 TO PRESENT 3 Credit Hours**

Covers the political, social, and cultural history of Europe from the peace at the end of the Napoleonic wars to the present.

**Prerequisite:** Sophomore standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HIST 31055 POLITICS, CULTURE AND SOCIETY OF 20TH-CENTURY EUROPE 3 Credit Hours**

This course explores the political, social, cultural and other factors that have marked the path of European history in the last century, from the origins of World War I to the end of the Cold War. The course explores not only the origins and consequences of warfare, but also the ways in which everyday life was transformed in this turbulent era. This course covers the era of 'Great Wars,' the 'economic miracle' after the war, the challenges of the Cold War, generational rebellion, and the formation of the European Union with special attention to the political, social and cultural transformations associated with these developments. The thematic anchors of the first half of the course are 'Total War' and 'Rebellion against Positivism,' while the thematic anchors of the second half of the course are 'Rebirth' and 'The Two Europes.'

**Prerequisite:** Sophomore standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HIST 31056 EUROPE IN THE RENAISSANCE 3 Credit Hours**

Analysis of the various factors leading Europe from a rural, feudal, ecclesiastical society to one characterized by urbanism, trade, secularism and the state.

**Prerequisite:** Junior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HIST 31061 HISTORY OF OHIO 3 Credit Hours**

This course explores key events and institutions shaping the geographic region that became Ohio from prehistory to present day with an emphasis is on social, cultural, political, and the economic history of the region.

Topics include the historical significance of Ohio's geography, the role and contributions of Native American peoples, the transition to statehood, and modern economic and political developments.

**Prerequisite:** Sophomore standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HIST 31071 U.S. FOREIGN RELATIONS THROUGH 1898 3 Credit Hours**

Explores the foundational period of U.S. foreign relations. Includes consideration of the roots and principles of U.S. foreign policy, continental consolidation, and U.S. incursions in the Western Hemisphere.

**Prerequisite:** Junior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HIST 31072 U.S. FOREIGN RELATIONS, 1898-1945 3 Credit Hours**

Explores the evolving U.S. world role from the Spanish-American War through World War II. Includes consideration of the expanding U.S. interest in Latin America, Asia, and elsewhere as well as the liberal international vision that impelled such interest.

**Prerequisite:** Junior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HIST 31073 U.S. FOREIGN RELATIONS SINCE 1945 3 Credit Hours**

Explores the rise and fall of U.S. global hegemony since World War II. Includes consideration of the Cold War, decolonization, détente, and the post-Cold War era.

**Prerequisite:** Junior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HIST 31074 HISTORY OF ESPIONAGE: FROM JOSHUA TO EDWARD SNOWDEN 3 Credit Hours**

This course traces the history of intelligence gathering from the ancient world through the 21st century. The study of spy-networks provides students with an understanding of emerging intelligence systems, including both examples of espionage and counter-intelligence. The course assesses the cultural and political impact of intelligence gathering on society at large and discusses ethical issues such as the balance between privacy and security. While most of the focus is on the United States, the lectures and discussions will also cover Britain, Germany, Japan, China, Israel, and Russia, with considerable attention to World Wars I and II, and the Cold War.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HIST 31075 HISTORY OF WOMEN IN THE UNITED STATES 3 Credit Hours**

(Cross-listed with WMST 30100) An exploration of the political, economic, social, intellectual and cultural forces that have shaped women's lives, women's thought, perceptions of womanhood and feminism, from 1607 to the present in what is now the United States.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HIST 31077 HISTORY OF SEXUALITY IN THE UNITED STATES 3 Credit Hours**

This course explores how people living in the United States learned about sex. Together, Americans in all time periods have developed sexual cultures and norms, accommodated themselves to, ignored, creatively interpreted or defied, or changed these cultures and norms over time. We will focus on how sexual cultures and norms were taught and enforced, and how different types of institutions and professionals (religious leaders, mental health professionals, law enforcement officers, journalists and popular cultural figures), played roles in this process.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HIST 31080 AFRICAN AMERICAN HISTORY: SLAVERY TO FREEDOM 3 Credit Hours**

(Cross-listed with PAS 33101) Survey of African American history from the colonial period to 1877. Course provides a general knowledge of the social, political and cultural history of African Americans from colonial times to the end of the Reconstruction.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HIST 31082 HISTORY OF THE CIVIL RIGHTS AND BLACK POWER MOVEMENTS IN THE UNITED STATES 3 Credit Hours**

This course examines Civil Rights and Black Power movements in the twentieth century and addresses a series of questions still relevant today: How do social movements begin? What leadership styles and protest tactics and strategies work? How do social movements evolve over time? This course also explores the history of the Civil Rights and Black Power movements at Kent State University. Working in the University Archives, students conduct research in original source materials and develop a collaborative digital history project based on their research.

**Prerequisite:** Sophomore standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HIST 31083 THE HISTORY OF WHITENESS IN THE UNITED STATES 3 Credit Hours**

This course will survey the full sweep of the history of the United States to interrogate what exactly 'whiteness' was and is and what it has meant throughout the American past. To do so, this course will examine closely a series of crucial turning points in the history of whiteness in the United States: 1) the colonial era and the creation of 'whiteness' as an identity; and 2) the evolution of 'whiteness' during the long nineteenth and twentieth centuries.

**Prerequisite:** Sophomore standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HIST 31087 SECTIONAL CONFLICT AND CIVIL WAR 3 Credit Hours**

Differences within the United States, including the controversy over slavery; the Civil War in all its aspects.

**Prerequisite:** Junior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HIST 31100 RECONSTRUCTION AND THE LATER SOUTH 3 Credit Hours**

Controversy during and after the Civil War as to racial and sectional relationships; the post-Reconstruction compromises and their undoing.

**Prerequisite:** Junior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HIST 31101 WAR AND SOCIETY IN THE UNITED STATES FROM 1607 THROUGH 1865 3 Credit Hours**

An examination of the impact of conflict and the military upon the society, culture, economy and diplomacy of the United States. Topics include colonial Indian wars, the Revolutionary War, the War of 1812, the Mexican-American War and the Civil War.

**Prerequisite:** HIST 12070.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HIST 31102 WAR AND SOCIETY IN THE UNITED STATES FROM 1865 TO THE PRESENT 3 Credit Hours**

An examination of the impact of conflict and the military on the society, culture, economy and diplomacy of the United States. Topics include the frontier Army, the Spanish-American War and empire in the Pacific, the two world wars, the Cold War and the War on Terror.

**Prerequisite:** HIST 12071.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HIST 31104 MIGRATIONS TO AMERICA, 1607 TO PRESENT 3 Credit Hours**

Examines the coming together of people from five continents to the United States and provides an overview of shifting patterns of migration both coerced and free to the United States. Starting in the colonial era, when slaves and servants typified the migration to America, this course then follows the migrations of pre-industrial, industrial, and post-industrial immigrants, their reception by American institutions and natives, and their efforts to construct communities in a new country.

**Prerequisite:** Junior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HIST 31106 PROGRESSIVE AMERICA: THE UNITED STATES, 1896-1919 3 Credit Hours**

Major political, economic, social, cultural and diplomatic events from the crisis of the 1890s through the first World War.

**Prerequisite:** Junior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HIST 31107 NEW ERA THROUGH WORLD WAR: THE UNITED STATES, 1920-1945 3 Credit Hours**

Major political, economic, social, cultural and diplomatic events from the new era of the 1920s through the second World War.

**Prerequisite:** Junior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HIST 31108 RECENT AMERICA: THE UNITED STATES, 1945-PRESENT 3 Credit Hours**

Examines everyday life and culture, assesses the degree to which presidents and their administrations are the reflections of their constituencies, and evaluates the significant events and themes of U.S. history since 1945.

**Prerequisite:** Junior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HIST 31112 CHINESE CIVILIZATION 3 Credit Hours**

General survey of evolution of Chinese civilization from the Bronze Age to the rise of communism.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HIST 31113 HISTORY OF JAPAN 3 Credit Hours**

General survey of the development of Japan from a loose confederation of clans to a modern industrial state.

**Prerequisite:** Junior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HIST 31114 TRADITION AND REVOLUTION IN SOUTHEAST ASIA 3 Credit Hours**

Focusing on Southeast Asia, this course is organized chronologically around three broad periods: traditional states and societies (to 1800); colonial transformations and indigenous responses (1800-1945); and the emergence of modern nations (since 1945). Within these broad time frames, the course will explore several themes, including the origins of indigenous states; the impact of colonial domination; responses to colonial rule; and the nature of post-colonial societies and political systems. Given the size and diversity of the region, the course will concentrate on four nation-states: Burma, Thailand, the Philippines, and Indonesia.

**Prerequisite:** Junior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HIST 31115 INDIA SINCE 1526 3 Credit Hours**

Presents a broad introduction to the modern history and culture of India, or South Asia. Students will gain an understanding of the geography, traditions, religions, and culture that make India a distinct civilization.

The course traces the history of Modern India from the Mughal Empire through the British Raj, Ghandi and nationalism, partition, and the Republic of India. Finally, the course examines the recent rise of Hindu fundamentalism and its implications for the world's largest democracy.

**Prerequisite:** Junior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HIST 31118 VIETNAM WAR 3 Credit Hours**

Study of the causes, evolution and effects of warfare in Vietnam from 1946 to 1975 with special attention to colonialism, nationalism, communism and American intervention.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HIST 31119 THE SIXTIES: A THIRD WORLD VIEW 3 Credit Hours**

Examines the political, social and cultural upheaval of the 1960s in Latin America, Africa and Asia.

**Prerequisite:** Junior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HIST 31120 COMPARATIVE THIRD WORLD REVOLUTIONS 3 Credit Hours**

Examination of 20th-century revolutions in Latin America, Africa and Asia focusing on ideologies and political leadership.

**Prerequisite:** Junior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HIST 31123 HISTORY OF POST COLONIAL AFRICA 3 Credit Hours**

This course seeks to challenge students to deconstruct the specific causes, meanings, and consequences of political violence in the 20th and 21st century Africa and the impact such violence has had on African democratic traditions. We will explore recent and current categories of political violence including state violence against ethnic and regional minorities. The course will also examine the positive contributions of African culture and daily life, with attention to alternative futures for Africans and others based on African experience.

**Prerequisite:** Sophomore standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HIST 31124 HIGHLIFE HISTORIES: MODERN AFRICAN URBAN EXPERIENCE 3 Credit Hours**

The term 'high-life' is most often associated with a musical style originating in Ghana and Sierra Leone in the 1920s and popular to the present day. The music mixed the sounds of American, European, and Caribbean influences within African musical traditions. Just like the music, African urban life has been a mixture of Western notions of town planning, architecture, and politics with African cultural and interpersonal traditions. The history of the African city offers a useful lens into the complicated and creative mixture of African and global sources. This course will focus on this mixing over the 20th century, concentrating on cities such as Harare, Zimbabwe; Accra, Ghana; Lagos, Nigeria; and Nairobi, Kenya.

**Prerequisite:** Junior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HIST 31126 HISTORY OF THE MIDDLE EAST 3 Credit Hours**

A survey of Islamic civilization in Middle Eastern context from the earliest days to the present.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HIST 31127 ANCIENT AND EARLY MEDIEVAL JEWISH HISTORY 3 Credit Hours**

Deals with the ancient and early medieval Jewish history from approximately 2000 B.C. to approximately 1200 A.D.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HIST 31128 LATE MEDIEVAL AND MODERN JEWISH HISTORY 3 Credit Hours**

Survey of Jewish history in Europe and the Middle East from the age of the crusades to the 20th century.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HIST 31130 HISTORY OF PRE-COLONIAL AFRICA TO 1880 3 Credit Hours**

This course provides a survey of cultural, political, social and economic history of Africa from antiquity to the onset of European colonialism in the 1880s. The history of the Atlantic, Saharan, and East African slave trade will be investigated, as will the contributions of African cultures to world history.

**Prerequisite:** Sophomore standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HIST 31140 MODERN LATIN AMERICA (DIVG) 3 Credit Hours**

Focuses on 20th-century Latin America and the efforts by social classes and their political leaderships to overcome obstacles of underdevelopment. Emphasis on Argentina, Brazil, Chile, Mexico, Cuba and Central America.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Diversity Global

**HIST 31141 EARLY LATIN AMERICA 3 Credit Hours**

Examines Latin America from precolonial times to the late 19th century. Lectures emphasize political and economic questions while readings focus on social history.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HIST 31500 FOUNDATIONS IN THE HISTORY AND PHILOSOPHY OF SCIENCE 3 Credit Hours**

(Cross-listed with PHIL 31080) An introduction to the study of science as a social, cultural, and historical phenomenon with an emphasis on the history of science primarily in Western civilization since 1500 and the major philosophical approaches to science developed in the twentieth century.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HIST 31543 THE SCIENTIFIC REVOLUTION 3 Credit Hours**

A survey of the major social, cultural, and historical developments in the sciences and medicine in Europe from 1500 to 1750.

**Prerequisite:** Junior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HIST 31550 MEDICINE IN THE MODERN WORLD SINCE 1500 3 Credit Hours**

An introduction to the main social, cultural, and intellectual developments in the history of medicine from the Renaissance to the twentieth century using an approach to the history of medicine which emphasizes the interactions between ideas, institutions, and individuals.

**Prerequisite:** Junior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter



**HIST 32050 HISTORICAL RESEARCH METHODS 3 Credit Hours**

Introduction to the study and practice of historical writing including historical methods, historiography, primary and secondary source research, critical analysis or documentary sources, historical reasoning and the preparation of written reports. Emphasis on developing effective communication skills and research procedures, record-keeping, citation, and bibliography.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**HIST 37001 FLORENCE THE MYTH OF A CITY 3 Credit Hours**

Florence is considered the birthplace of the Renaissance and the cradle of modern Western Civilization because, among the many Italian city-states, it experienced a cultural development that had no precedent in European history. Florentine republicanism is a political paradigm through which we, still today, trace the origins of the values of democracy, freedom, rational thought, individualism, the scientific method and the capacity for critical reflection. This course covers and analyzes different historical eras of Florence from its founding, during the Roman era, up until today. Special attention is given to periods of intensive development in Florence: the re-birth of the Middle Ages, the splendor of the Renaissance, and the crucial role of the Risorgimento, when the city was the capital of the new Kingdom of Italy (1865-1871) and became a center of culture and modern civilization. This course will be offered only in Florence.

**Prerequisite:** Sophomore standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HIST 38495 SPECIAL TOPICS IN AREA STUDIES 3 Credit Hours**

Special course with a primary focus on the history of a particular place (state, nation, region). Topic as well as chronological and geographical focus will vary by term and by instructor. Exact course titles and descriptions will be inserted into the Schedule of Classes. Repeatable for credit.

**Prerequisite:** Sophomore standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HIST 38595 SPECIAL TOPICS IN THEMATIC STUDIES 3 Credit Hours**

Special course with a primary focus on the history of a specific topic or theme. Chronological and geographical focus as well as topic will vary by term and by instructor. Exact course titles and descriptions will be inserted into the Schedule of Classes. Repeatable for credit.

**Prerequisite:** Sophomore standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HIST 40092 INTERNSHIP IN HISTORY (ELR) 3 Credit Hours**

(Repeatable for credit) Student internship at an institution related to the history major (e.g., historical society, museum, archives, historic preservation organization).

**Prerequisite:** Junior standing.

**Schedule Type:** Practical Experience

**Contact Hours:** 3 other

**Grade Mode:** Satisfactory/Unsatisfactory

**Attributes:** Experiential Learning Requirement

**HIST 40093 WORKSHOP IN HISTORY 1-6 Credit Hours**

(Repeatable for credit) (Cross-listed with HIST 50093) Special workshop in history. Topic will vary according to professor.

**Prerequisite:** None.

**Schedule Type:** Workshop

**Contact Hours:** 1-6 other

**Grade Mode:** Satisfactory/Unsatisfactory

**HIST 40197 AMERICAN CULTURAL HERITAGE: THE ARTS AND SOCIETY 3 Credit Hours**

Examination of music, painting and literature in their cultural contexts during four periods of American history. American studies methodology and interdisciplinary thought.

**Prerequisite:** One prior course in history; and junior standing.

**Schedule Type:** Colloquium

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**HIST 41000 INTRODUCTION TO PUBLIC HISTORY 3 Credit Hours**

(Slashed with HIST 51000 and HIST 71000) A survey of public history including: archives, editing, museums and historical agency administration; historic preservation and related skill areas (e.g. artifact analysis, oral history).

**Prerequisite:** Junior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HIST 41006 ROMAN HISTORY 3 Credit Hours**

(Cross-listed with CLAS 41006 and CLAS 51006) (Slashed with HIST 51006 and HIST 71006) A survey of Roman history from its beginnings to the fall of the Roman Empire.

**Prerequisite:** Junior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HIST 41010 THE EARLY MIDDLE AGES 3 Credit Hours**

(Slashed with HIST 51010 and HIST 71010) Survey of major political, social and cultural developments of Europe from the fourth through 10th centuries.

**Prerequisite:** Junior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HIST 41011 THE HIGH MIDDLE AGES 3 Credit Hours**

(Slashed with HIST 51011 and HIST 71011) Survey of political, social and cultural developments of Europe from 11th through 13th centuries.

**Prerequisite:** Junior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HIST 41020 NINETEENTH-CENTURY EUROPE 3 Credit Hours**

Focus on industrialization and social transformation, political upheavals, intellectual thought, nationalism and foreign policy in Great Britain, France, Prussia and Austria.

**Prerequisite:** Junior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HIST 41024 MODERN EUROPEAN HISTORY, 1914-1945 3 Credit Hours**

(Slashed with HIST 51024 and HIST 71024) Special attention paid to the two world wars, Bolshevik Revolution, rise of fascism and fate of European Jewry.

**Prerequisite:** Junior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HIST 41025 MODERN EUROPEAN HISTORY:1945-PRESENT 3 Credit Hours**

(Slashed with HIST 51025 and HIST 71025) Survey of European political, economic, social and cultural developments since 1945.

**Prerequisite:** Junior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HIST 41032 CONSUMPTION AND MASS CULTURE IN MODERN EUROPE 3 Credit Hours**

Examines shifts in consumption and the growth of mass consumer society in Europe from 1815 to the present, including the evolution of consumer societies, or those societies in which people construct their identities through commodities; the changes that ensued with the growth of mass consumption; and differing consumption regimes in Eastern and Western Europe in the twentieth century.

**Prerequisite:** Junior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HIST 41033 WOMEN AND GENDER IN MODERN EUROPE 3 Credit Hours**

The modern period of European history saw revolutionary change politically, economically and socially. In this course, the ways that a gendered analysis can change and deepen our understanding of these historical changes and events is examined, including the "lived experience" of women and men focusing on family, sexual lives, work and politics.

**Prerequisite:** Junior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HIST 41034 THE POLITICS OF DRESS IN MODERN EUROPE 3 Credit Hours**

(Slashed with HIST 51034 and HIST 71034) An examination of the role clothing played in the history of Modern Europe that uses labor, social, gender, and religious history to understand how political and economic changes affected the daily lives of Europeans through a close examination of what they wore.

**Prerequisite:** Sophomore standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HIST 41041 HISTORY OF GERMANY, 1871-PRESENT 3 Credit Hours**

Focuses on the impact of industrialization, the dilemma of the German left, the rise of Nazism and the emergence of two German states after 1945.

**Prerequisite:** Junior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HIST 41044 IMPERIAL RUSSIA, 1689-1917 3 Credit Hours**

(Slashed with HIST 51044 and HIST 71044) Study of the entire imperial period, with focus on modernization, state institutions, nationalities, social groups and estates, economy, politics and ideologies, and elite and popular culture.

**Prerequisite:** Junior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HIST 41045 MODERN RUSSIA, 1917-PRESENT 3 Credit Hours**

(Slashed with HIST 51045 and HIST 71045) Focus on 1917 revolutions; Civil War; nationalities question; NEP, collectivization; Great Terror; World War II; Cold War; Soviet Foreign policy and culture; Perestroika and post-Soviet economic, political and ideological changes.

**Prerequisite:** Junior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HIST 41056 HISTORY OF COLONIAL AMERICA:1492-1714 (DIVD) 3 Credit Hours**

(Slashed with HIST 51056 and HIST 71056) Major patterns of thought and behavior among Spanish, French and English expansionists; English colonization to 1714.

**Prerequisite:** Junior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Diversity Domestic

**HIST 41057 EIGHTEENTH-CENTURY AMERICA:1714-1789 (DIVD) 3 Credit Hours**

(Slashed with HIST 51057 and HIST 71057) Cultural development of English colonies; Great War for Empire; American Revolution and Constitution.

**Prerequisite:** Junior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Diversity Domestic

**HIST 41058 JEFFERSON-JACKSON ERA, 1789-1848 3 Credit Hours**

(Slashed with HIST 51058 and HIST 71058) Study of the founding and development of the American nation, especially the periods of Jefferson and Jackson.

**Prerequisite:** Junior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HIST 41060 COMPARATIVE FASCISM 3 Credit Hours**

(Slashed with HIST 51060 and HIST 71060) Examination of the theories and practices of fascist movements and regimes in twentieth-century Europe utilizing a variety of perspectives. Organized primarily thematically instead of geographically with readings and discussions based on historiographical and critical analyses.

**Prerequisite:** Junior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HIST 41062 THE UNITED STATES:THE WESTWARD MOVEMENT 3 Credit Hours**

(Slashed with HIST 51062 and HIST 71062) The process of settlement from its beginnings; consequences for American history.

**Prerequisite:** Junior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HIST 41071 AMERICAN SOCIAL AND INTELLECTUAL HISTORY, 1876-PRESENT (DIVD) 3 Credit Hours**

(Slashed with HIST 51071) Development of social Darwinism, racism, pragmatism, popular arts.

**Prerequisite:** Junior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Diversity Domestic

**HIST 41077 THE GREAT DEPRESSION IN AMERICA 3 Credit Hours**

Examines the impact and meaning of the Depression era, suggesting that the crisis helped to usher in a new way of imagining American society. Beginning with an overview of modernism, modernity and the modern age, the course explores how the New Deal fits into these theories, how specific programs operated under their ideals, and finally, how American society adapted and accepted this 'modern' vision.

**Prerequisite:** Junior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HIST 41085 THE SIXTIES IN AMERICA 3 Credit Hours**

The era of the 1960s outlined the debates and patterns of American history in the latter part of the twentieth century and continues to resonate in our contemporary world. This course examines the seminal events, persons and developments - including JFK's New Frontiers policy; Martin Luther King Jr. and Malcolm X; the March on Washington; Johnson's Great Society; the Vietnam War; the New Left; the counter-culture; country music; the rise of modern conservatism; Nixon; Watergate; and the Oil Crisis - to get a better understanding of the meaning and significance of this crucial era to the history of the United States and the world.

**Prerequisite:** Junior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HIST 41112 HISTORY OF MODERN CHINA 3 Credit Hours**

(Slashed with HIST 51112 and HIST 71112) Disintegration of the Chinese empire amid Western challenge and internal disorder and the subsequent rise of communism.

**Prerequisite:** Junior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HIST 41129 THE HOLOCAUST: THE DESTRUCTION OF EUROPEAN JEWRY, 1938-1945 3 Credit Hours**

Analysis of those political, economic, social and intellectual factors leading to systematic destruction of European Jewry during World War II.

**Prerequisite:** Junior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HIST 41132 HISTORY OF COLONIAL AFRICA, 1880-1994 3 Credit Hours**

This course provides a survey of African experiences with colonialism from the period of formal colonialism to the period of decolonization and the end of settler colonialism in Rhodesia and South Africa. The course explores regional experiences across sub-Saharan African and North Africa. The course will explore questions of resistance and collaboration and the foundations of post-colonial states in the colonial experience. Gender, class, ethnicity, and generational differences will be explored at the center of this historical survey.

**Prerequisite:** Junior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HIST 41789 THE FRENCH REVOLUTION AND NAPOLEON 3 Credit Hours**

(Slashed with HIST 51789 and HIST 71789) Analysis of the causes of Revolution in France, political, ideological and social conflict in the construction of French democracy expansion of the revolution outside of France.

**Prerequisite:** Senior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HIST 42142 AFRO-LATIN AMERICA 3 Credit Hours**

(Slashed with HIST 52142, HIST 72142) Focuses on the social, cultural and political life of the African population of Latin America, from 19th century slaves to shantytown dwellers of megacities such as Rio de Janeiro. Topics include black resistance to racism, race mixture in multicultural societies, and how employment, political participation and family organization empowered the lives of Afro-Latin women.

**Prerequisite:** Junior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HIST 42297 COLLOQUIUM:CHINA AND JAPAN (WIC) 3 Credit Hours**

Study of important issues in the history of China and Japan through reading and discussing major works pertinent to the issues selected.

**Prerequisite:** Junior standing.

**Schedule Type:** Colloquium

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**Attributes:** Writing Intensive Course

**HIST 43797 COLLOQUIUM ON VICTORIAN ENGLAND (WIC) 3 Credit Hours**

Consideration of distinctive features of Victorian England including class structure, ideas, manners, politics, foreign affairs, empire.

**Prerequisite:** None.

**Schedule Type:** Colloquium

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**Attributes:** Writing Intensive Course

- HIST 48697 COLLOQUIUM:U.S. MIDDLE PERIOD, 1820-1900 (WIC) 3 Credit Hours**  
(Slashed with HIST 58697 and HIST 78697) Reading, discussion and written reviewing of important works on the period.  
**Prerequisite:** Junior standing.  
**Schedule Type:** Colloquium  
**Contact Hours:** 3 other  
**Grade Mode:** Standard Letter  
**Attributes:** Writing Intensive Course
- HIST 48897 COLLOQUIUM IN AFRICAN AMERICAN HISTORY SINCE 1877 3 Credit Hours**  
(Slashed with HIST 58897 and HIST 78897) This colloquium specializes in African American history after 1877, with emphasis on historiographical literature of the period.  
**Prerequisite:** Junior standing.  
**Schedule Type:** Colloquium  
**Contact Hours:** 3 other  
**Grade Mode:** Standard Letter
- HIST 49091 SENIOR SEMINAR IN HISTORY (ELR) (WIC) 3 Credit Hours**  
(Repeatable for credit)History majors complete a significant work of original research based on primary sources. Topics vary by instructor. Enrollment limited to senior history majors.  
**Prerequisite:** HIST 32050 with minimum C grade; and history major; and senior standing.  
**Schedule Type:** Seminar  
**Contact Hours:** 3 other  
**Grade Mode:** Standard Letter  
**Attributes:** Experiential Learning Requirement, Writing Intensive Course
- HIST 49095 SPECIAL TOPICS IN UNITED STATES HISTORY 3 Credit Hours**  
(Repeatable for a maximum of 18 credit hours) (Slashed with HIST 59095 and HIST 79095) Special course in the history of the United States, the subject and topic of which varies by term and instructor. Precise titles and descriptions to be inserted in the Schedule of classes.  
**Prerequisite:** Junior standing.  
**Schedule Type:** Lecture  
**Contact Hours:** 3 lecture  
**Grade Mode:** Standard Letter
- HIST 49195 SPECIAL TOPICS: EUROPE SINCE 1500 3 Credit Hours**  
(Repeatable for maximum 18 credit hours) (Slashed with HIST 59195 and HIST 79195) Special course in the history of Europe since 1500, the subject and topic of which varies by term and instructor. Precise titles and descriptions to be inserted in the Schedule of Classes.  
**Prerequisite:** Junior standing.  
**Schedule Type:** Lecture  
**Contact Hours:** 3 lecture  
**Grade Mode:** Standard Letter
- HIST 49196 INDIVIDUAL INVESTIGATION 2,3 Credit Hours**  
(Repeatable for credit)  
**Prerequisite:** Special approval.  
**Schedule Type:** Individual Investigation  
**Contact Hours:** 3 other  
**Grade Mode:** Standard Letter-IP
- HIST 49199 SENIOR HONORS PROJECT (ELR) 3-6 Credit Hours**  
(Repeatable for credit) Thesis or other independent study or creative project. Required of students seeking to graduate with honors in history.  
**Prerequisite:** Permission (see HONR 40099).  
**Schedule Type:** Senior Project/Honors Thesis  
**Contact Hours:** 3-6 other  
**Grade Mode:** Standard Letter-IP  
**Attributes:** Experiential Learning Requirement
- HIST 49295 SPECIAL TOPICS IN GLOBAL HISTORY 3 Credit Hours**  
(Repeatable for credit) (Slashed with HIST 59295 and HIST 79295) Special course in the history of the ancient and medieval worlds, Africa, Asia, Latin America, and/or the Middle East, the subject and topic of which varies by term and instructor. Precise titles and descriptions to be inserted in the Schedule of Classes.  
**Prerequisite:** Junior standing.  
**Schedule Type:** Lecture  
**Contact Hours:** 3 lecture  
**Grade Mode:** Standard Letter
- HIST 50093 WORKSHOP IN HISTORY 1-6 Credit Hours**  
(Repeatable for credit) (Slashed with HIST 40093) Special workshop in history. Topic will vary according to professor.  
**Prerequisite:** None.  
**Schedule Type:** Workshop  
**Contact Hours:** 1-6 other  
**Grade Mode:** Satisfactory/Unsatisfactory
- HIST 51000 PUBLIC HISTORY 3 Credit Hours**  
(Slashed with HIST 41000 and HIST 71000) A survey of public history including: archives; editing, museums and historical agency administration; historic preservation; and related skill areas (e.g. artifact analysis, oral history).  
**Prerequisite:** Graduate standing.  
**Schedule Type:** Lecture  
**Contact Hours:** 3 lecture  
**Grade Mode:** Standard Letter
- HIST 51005 TEACHING WORLD HISTORY 3 Credit Hours**  
(Repeatable for credit) (Slashed with HIST 71005) To prepare graduate students to teach world history at the university level. Special focus on integrating non-Western sources and points of view into the world history curriculum, preparation of world history syllabus and justification of selected readings and topics, mastery of on-line and in-class technologies to deliver world history materials.  
**Prerequisite:** Graduate standing in history.  
**Schedule Type:** Lecture  
**Contact Hours:** 3 lecture  
**Grade Mode:** Standard Letter
- HIST 51006 ROMAN HISTORY 3 Credit Hours**  
(Cross-listed with CLAS 41006 and CLAS 51006) (Slashed with HIST 41006 and HIST 71006) A survey of Roman history from its beginnings to the Fall of the Roman Empire.  
**Prerequisite:** Graduate standing.  
**Schedule Type:** Lecture  
**Contact Hours:** 3 lecture  
**Grade Mode:** Standard Letter

**HIST 51010 THE EARLY MIDDLE AGES 3 Credit Hours**

(Slashed with HIST 41010 and HIST 71010) A survey of the major political, social and cultural developments of Europe from the fourth through the tenth century.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HIST 51011 THE HIGH MIDDLE AGES 3 Credit Hours**

(Slashed with HIST 41011 and HIST 71011) A survey of political, social and cultural developments of Europe from the eleventh through the thirteenth century.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HIST 51024 MODERN EUROPEAN HISTORY, 1914-1945 3 Credit Hours**

(Slashed with HIST 41024 and HIST 71024) Special attention paid to the two World Wars, Bolshevik Revolution, rise of Fascism and fate of European Jewry.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HIST 51025 MODERN EUROPEAN HISTORY:1945 TO PRESENT 3 Credit Hours**

(Slashed with HIST 41025 and HIST 71025) Survey of European political, economic, social and cultural developments since 1945.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HIST 51034 THE POLITICS OF DRESS IN MODERN EUROPE 3 Credit Hours**

(Slashed with HIST 41034 and HIST 71034) An examination of the role clothing played in the history of Modern Europe that uses labor, social, gender, and religious history to understand how political and economic changes affected the daily lives of Europeans through a close examination of what they wore.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture, Seminar

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HIST 51044 RUSSIA FROM ITS ORIGINS TO 1801 3 Credit Hours**

(Slashed with HIST 41044 and HIST 71044) Study of the entire imperial period, with focus on modernization, state institutions, nationalities, social groups and estates, economy, politics and ideologies, and elite and popular culture.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HIST 51045 MODERN RUSSIA, 1917-PRESENT 3 Credit Hours**

(Slashed with HIST 41045 and HIST 71045) Focus on 1917 revolutions, civil war, nationalities question, NEP, collectivization, Great Terror, World War II, Cold War, Soviet foreign policy and culture, Perestroika, and post-Soviet economic, political, and ideological changes.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HIST 51056 HISTORY OF COLONIAL AMERICA, 1492-1714 3 Credit Hours**

(Slashed with HIST 41056 and HIST 71056) Major patterns of thought and behavior among Spanish, French and English expansionists; English colonization to 1714.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HIST 51057 18TH-CENTURY AMERICA, 1714-1789 3 Credit Hours**

(Slashed with HIST 41057 and HIST 71057) Cultural development of English Colonies; Great War for Empire; American Revolution and Constitution.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HIST 51058 THE JEFFERSON-JACKSON ERA, 1789-1848 3 Credit Hours**

(Slashed with HIST 41058 and HIST 71058) A study of the founding and development of the American nation, especially the periods of Jefferson and Jackson.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HIST 51060 COMPARATIVE FASCISM 3 Credit Hours**

(Slashed with HIST 41060 and HIST 71060) Examination of the theories and practices of fascist movements and regimes in twentieth-century Europe utilizing a variety of perspectives. Organized primarily thematically instead of geographically with readings and discussions based on historiographical and critical analyses.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HIST 51062 THE UNITED STATES:THE WESTWARD MOVEMENT 3 Credit Hours**

(Slashed with HIST 41062 and HIST 71062) The process of settlement from its beginning; consequences for American history.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter



**HIST 51071 AMERICAN SOCIAL AND INTELLECTUAL HISTORY, 1876 TO PRESENT 3 Credit Hours**

(Slashed with HIST 41071) Development of social Darwinism, racism, Pragmatism, popular arts.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HIST 51097 COLLOQUIUM:SAINTS, MONKS AND THE MEDIEVAL COMMUNITY 3 Credit Hours**

(Repeatable for credit) (Slashed with HIST 71097) Investigates major religious institutions that shaped medieval European society and the impact on popular piety.

**Prerequisite:** Graduate standing.

**Schedule Type:** Colloquium

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**HIST 51112 HISTORY OF MODERN CHINA 3 Credit Hours**

(Slashed with HIST 41112 and HIST 71112) Disintegration of the Chinese empire amid Western challenge and internal disorder and the subsequent rise of Communism.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HIST 51789 THE FRENCH REVOLUTION AND NAPOLEON 3 Credit Hours**

(Slashed with HIST 41789 and HIST 71789) Analysis of the causes of revolution in France, political ideological and social conflict in the construction of French democracy expansion of the revolution outside of France.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HIST 52142 AFRO-LATIN AMERICA 3 Credit Hours**

(Slashed with HIST 42142 and HIST 72142) Course focuses on the social, cultural and political life of the African population of Latin America, from 19th century slaves to shantytown dwellers of megacities such as Rio de Janeiro. Topics include black resistance to racism, race mixture in multicultural societies, and how employment, political participation and family organization empowered the lives of Afro-Latin women.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HIST 58697 COLLOQUIUM:U.S. MIDDLE PERIOD 1820-1900 3 Credit Hours**

(Repeatable for credit) (Slashed with HIST 48697 and HIST 58697) Reading, discussion and written reviewing of important works on the period.

**Prerequisite:** Graduate standing.

**Schedule Type:** Colloquium

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**HIST 58897 COLLOQUIUM IN AFRICAN-AMERICAN HISTORY SINCE 1877 3 Credit Hours**

(Repeatable for credit) (Slashed with HIST 48897 and HIST 78897) This colloquium specializes in African American history from 1877, with emphasis on historiographical literature of the period.

**Prerequisite:** Graduate standing.

**Schedule Type:** Colloquium

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**HIST 59095 SPECIAL TOPICS IN UNITED STATES HISTORY 3 Credit Hours**

(Repeatable for credit) (Slashed with HIST 49095 and HIST 59095) Special course in the history of the United States, the subject and topic of which varies by term and instructor. Precise titles and descriptions to be inserted in the Schedule of Classes. Repeatable.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HIST 59195 SPECIAL TOPICS: EUROPE SINCE 1500 3 Credit Hours**

(Repeatable for credit) (Slashed with HIST 49195 and HIST 79195) Special course in the history of Europe since 1500, the subject and topic of which varies by term and instructor. Precise titles and descriptions to be inserted in the Schedule of Classes.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HIST 59295 SPECIAL TOPICS IN GLOBAL HISTORY 3 Credit Hours**

(Repeatable for credit) (Slashed with HIST 49295 and HIST 79295) Special course in the history of the ancient and medieval worlds, Africa, Asia, Latin America, and/or the Middle East, the subject and topic of which varies by term and instructor. Precise titles and descriptions to be inserted in the Schedule of Classes.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HIST 60092 PUBLIC HISTORY INTERNSHIP 3-6 Credit Hours**

(Repeatable for credit) (Slashed with HIST 70092) Students serve an internship at an institution related to their emphasis in public history (e.g., historical society, museum, archives, historical preservation organization).

**Prerequisite:** Graduate standing.

**Schedule Type:** Practical Experience

**Contact Hours:** 3-6 other

**Grade Mode:** Satisfactory/Unsatisfactory

**HIST 61002 HISTORIOGRAPHY 3 Credit Hours**

Development of historical thinking. Students will read excerpts of famous historians and prepare papers.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HIST 61070 WRITING SEMINAR IN HISTORY 3 Credit Hours**  
(Repeatable for credit) (Slashed with HIST 81070) Students will spend the semester conceptualizing, researching and writing an article-length piece of original historical scholarship. Basic topics to be addressed include prospectus drafting, source identification, historiography, research methods, scholarly writing and revision, oral presentation and professional critiquing. All students will be expected to supplement the guidance they receive from the seminar instructor with regular consultations with their departmental advisors.

**Prerequisite:** Graduate standing.

**Schedule Type:** Seminar

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HIST 62070 AMERICAN HISTORY FROM PRECONTACT NATIVE AMERICA THROUGH THE CIVIL WAR 3 Credit Hours**

(Slashed with HIST 82070) This reading colloquium will survey the major aspects of American history from the arrival of Europeans in North America through the colonial period of American history and up to the Civil War and Reconstruction. Students will be introduced to both historical content as well as the major historiographical currents in this segment of US history. The aim of the course is to prepare students for comprehensive exams as well as to teach the first half of the US survey course.

**Prerequisite:** Graduate standing.

**Schedule Type:** Colloquium, Seminar

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**HIST 62071 AMERICAN HISTORY FROM THE CIVIL WAR TO THE PRESENT 3 Credit Hours**

(Slashed with HIST 82071) This reading colloquium will survey major aspects of American history since the Civil War within the historiographical traditions through which they have been understood. The aim of the course is to prepare students for comprehensive exams as well as to teach the second half of the US survey course.

**Prerequisite:** Graduate standing.

**Schedule Type:** Colloquium, Seminar

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**HIST 62097 PUBLIC HISTORY COLLOQUIUM 3 Credit Hours**

(Repeatable for credit) (Slashed with HIST 72097) Assigned readings, discussions and papers focus on particular emphases and skill areas in public history.

**Prerequisite:** Graduate standing.

**Schedule Type:** Colloquium

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**HIST 62285 AMERICAN INTELLECTUAL AND CULTURAL HISTORY SINCE 1877 3 Credit Hours**

(Slashed with HIST 82285) This colloquium will explore American Intellectual and Cultural History after 1877 by focusing on modernity. Our readings will discuss modernity's evolution from its late nineteenth-century roots to its dismantlement in the current epoch. We will hear, see, and read about this idea and how it is applied to various manifestations within our society, from material culture to advertising, music, and film.

**Prerequisite:** Graduate standing.

**Schedule Type:** Colloquium, Seminar

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HIST 62345 IMAGES AND IDENTITIES IN US FOREIGN RELATIONS 3 Credit Hours**

This graduate-level reading colloquium will explore the construction of cultural images and national identities in US foreign relations. Course readings and discussions will deal not only with the ways that Americans have "constructed" other nations but also with how other nations have "constructed" the United States. Themes to be explored include the role of intangibles such as culture in the making of policy; the accuracy or inaccuracy of cultural constructs; and the permanency or malleability of cultural ideas.

**Prerequisite:** Graduate standing.

**Schedule Type:** Colloquium, Seminar

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HIST 62400 THE LENS OF WAR: AMERICAN HISTORY THROUGH THE STUDY OF THE MILITARY 3 Credit Hours**

(Slashed with HIST 82400) A survey of the impact conflict and the peacetime military have had on both the history and historiography of colonial America and the United States. Thematic points of emphasis include, but are not limited to civil-military relations, race, national identity, memory, gender, western expansion, American economic development, the growth of the federal government, Cold War culture, and citizenship.

**Prerequisite:** Graduate standing.

**Schedule Type:** Colloquium, Seminar

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HIST 69199 THESIS I 2-6 Credit Hours**

Thesis students must register for a total of 6 hours, 2 to 6 hours in a single semester distributed over several semesters if desired.

**Prerequisite:** Graduate standing.

**Schedule Type:** Masters Thesis

**Contact Hours:** 2-6 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**HIST 69299 THESIS II 2 Credit Hours**

Thesis students must continue registration each semester until all degree requirements are met.

**Prerequisite:** HIST 69199; and graduate standing.

**Schedule Type:** Masters Thesis

**Contact Hours:** 2 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**HIST 69399 CAPSTONE IN HISTORY 3 Credit Hours**

Capstone experience required of all MA students who are not writing a thesis. Students will develop an original research project and disseminate their work either through publication or presentation. Projects should integrate primary and secondary source research.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Masters Thesis, Project or Capstone

**Contact Hours:** 3 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**HIST 69499 INTERDISCIPLINARY PROJECT IN HISTORY 3,6 Credit Hours**

Research experience required for all students enrolled in the Master's in History for Secondary School Teachers concentration. Students will draw on their history coursework to complete a substantial piece of research applicable to the work of a practicing teacher. It can be pedagogical in nature, exploring strategies for teaching a particular subject, topic, or historical concept, or might be documentary in nature, such as historically informed teaching materials for a given subject, topic, or concept.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Project or Capstone

**Contact Hours:** 3-6 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**HIST 69896 INDIVIDUAL INVESTIGATION 2,3 Credit Hours**

(Repeatable for credit)

**Prerequisite:** Graduate standing.

**Schedule Type:** Individual Investigation

**Contact Hours:** 2-3 other

**Grade Mode:** Standard Letter-IP

**HIST 69898 RESEARCH 1-15 Credit Hours**

(Repeatable for credit)

**Prerequisite:** Graduate standing.

**Schedule Type:** Research

**Contact Hours:** 1-15 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**HIST 70092 PUBLIC HISTORY INTERNSHIP 3-6 Credit Hours**

(Repeatable for credit) (Slashed with HIST 60092) Students serve an internship at an institution related to their emphasis in public history (e.g., historical society, museum, archives, historical preservation organization).

**Prerequisite:** Doctoral standing.

**Schedule Type:** Practical Experience

**Contact Hours:** 3-6 other

**Grade Mode:** Satisfactory/Unsatisfactory

**HIST 71000 PUBLIC HISTORY 3 Credit Hours**

(Slashed with HIST 41000 and HIST 51000) A survey of public history including: archives, editing, museums and historical agency administration; historic preservation; and related skill areas (e.g. artifact analysis, oral history).

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HIST 71005 TEACHING WORLD HISTORY 3 Credit Hours**

(Repeatable for a maximum of 9 credit hours) (Slashed with HIST 51005) To prepare graduate students to teach world history at the university level. Special focus on integrating non-Western sources and points of view into the world history curriculum, preparation of world history syllabus and justification of selected readings and topics, mastery of on-line and in-class technologies to deliver world history materials.

**Prerequisite:** Doctoral standing in History.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HIST 71006 ROMAN HISTORY 3 Credit Hours**

(Cross-listed with CLAS 41006, CLAS 51006) (Slashed with HIST 41006 and HIST 51006) A survey of Roman history from its beginning to the fall of the Roman empire.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HIST 71010 THE EARLY MIDDLE AGES 3 Credit Hours**

(Slashed with HIST 41010 and HIST 51010) Survey of major political, social and cultural developments of Europe from the fourth through 10th centuries.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HIST 71011 THE HIGH MIDDLE AGES 3 Credit Hours**

(Slashed with HIST 41011 and HIST 51011) Survey of political, social and cultural developments of Europe from 11th through 13th centuries.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HIST 71024 MODERN EUROPEAN HISTORY, 1914-1945 3 Credit Hours**

(Slashed with HIST 41024 and HIST 51024) Special attention paid to the two world wars, Bolshevik Revolution, rise of fascism and fate of European Jewry.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HIST 71025 MODERN EUROPEAN HISTORY: 1945 TO PRESENT 3 Credit Hours**

(Slashed with HIST 41025 and HIST 51025) Survey of European political, economic social and cultural developments since 1945.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HIST 71034 THE POLITICS OF DRESS IN MODERN EUROPE 3 Credit Hours**

(Slashed with HIST 41034 and HIST 51034) An examination of the role clothing played in the history of Modern Europe that uses labor, social, gender, and religious history to understand how political and economic changes affected the daily lives of Europeans through a close examination of what they wore.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture, Seminar

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HIST 71044 RUSSIA FROM ITS ORIGINS TO 1801 3 Credit Hours**  
(Slashed with HIST 41044 and HIST 51044) Study of the entire imperial period, with focus on modernization, state institutions, nationalities, social groups and estates, economy, politics and ideologies, and elite and popular culture.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HIST 71045 MODERN RUSSIA, 1917-PRESENT 3 Credit Hours**  
(Slashed with HIST 41045 and HIST 51045) Focus on 1917 revolutions; Civil War; nationalities question; NEP; collectivization; great terror; World War II; Cold War; Soviet Foreign policy and culture; Perestroika and post-Soviet economic, political and ideological changes.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HIST 71056 HISTORY OF COLONIAL AMERICA, 1492-1714 3 Credit Hours**

(Slashed with HIST 41056 and HIST 51056) Major patterns of thought and behavior among Spanish, French and English expansionists; English colonization to 1714.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HIST 71057 18TH-CENTURY AMERICA, 1714-1789 3 Credit Hours**

(Slashed with HIST 41057 and HIST 51057) Cultural development of English Colonies; Great War for Empire; American Revolution and Constitution.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HIST 71058 THE JEFFERSON-JACKSON ERA, 1789-1848 3 Credit Hours**

(Slashed with HIST 41058 and HIST 51058) Study of the founding and development of the American nation, especially the periods of Jefferson and Jackson.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HIST 71060 COMPARATIVE FACISM 3 Credit Hours**

(Slashed with HIST 41060 and HIST 51060) Examination of the theories and practices of fascist movements and regimes in twentieth-century Europe utilizing a variety of perspectives. Organized primarily thematically instead of geographically with readings and discussions based on historiographical and critical analyses.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HIST 71062 THE UNITED STATES:THE WESTWARD MOVEMENT 3 Credit Hours**

(Slashed with HIST 41062 and HIST 51062) The process of settlement from its beginnings; consequences for American history.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HIST 71097 COLLOQUIUM:SAINTS, MONKS AND THE MEDIEVAL COMMUNITY 3 Credit Hours**

(Repeatable for credit) (Slashed with HIST 51097) Investigates major religious institutions that shaped medieval European society and the impact on popular piety.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Colloquium

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**HIST 71112 HISTORY OF MODERN CHINA 3 Credit Hours**

(Slashed with HIST 41112 and HIST 51112) Disintegration of the Chinese empire amid Western challenge and internal disorder and the subsequent rise of communism.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HIST 71789 THE FRENCH REVOLUTION AND NAPOLEON 3 Credit Hours**

(Slashed with HIST 41789 and HIST 51789) Analysis of the causes of revolution in France, political ideological and social conflict in the construction of French democracy expansion of the revolution outside of France.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HIST 72097 PUBLIC HISTORY COLLOQUIUM 3 Credit Hours**

(Repeatable for credit) (Slashed with HIST 62097) Assigned readings, discussions and papers focus on particular emphases and skill areas in public history.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Colloquium

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**HIST 72140 THE SIXTIES:A THIRD WORLD VIEW 3 Credit Hours**

Examines the political, social and cultural upheaval of the 1960s in Latin America, Africa and Asia.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HIST 72142 AFRO-LATIN AMERICA 3 Credit Hours**

(Slashed with HIST 42142 and HIST 52142) Course focuses on the social, cultural and political life of the African population of Latin America, from 19th century slaves to shantytown dwellers of megacities such as Rio de Janeiro. Topics include black resistance to racism, race mixture in multicultural societies, and how employment, political participation and family organization empowered the lives of Afro-Latin women.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HIST 78697 COLLOQUIUM:U.S. MIDDLE PERIOD 1820-1900 3 Credit Hours**

(Repeatable for credit) (Slashed with HIST 48697 and HIST 58697)

Coverage of the historical literature on Europe's major political, diplomatic, economic and social developments since 1945.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Colloquium

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**HIST 78897 COLLOQUIUM IN AFRICAN-AMERICAN HISTORY SINCE 1877 3 Credit Hours**

(Repeatable for credit) (Slashed with HIST 48897 and HIST 58897) This colloquium specializes in African American history after 1877, with emphasis on historiographical literature of the period.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Colloquium

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**HIST 79095 SPECIAL TOPICS IN UNITED STATES HISTORY 3 Credit Hours**

(Repeatable for credit) (Slashed with HIST 49095 and HIST 59095)

Special course in the history of the United States, the subject and topic of which varies by term and instructor. Precise titles and descriptions to be inserted in the Schedule of Classes.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HIST 79195 SPECIAL TOPICS: EUROPE SINCE 1500 3 Credit Hours**

(Repeatable for credit) (Slashed with HIST 49195 and HIST 59195)

Special course in the history of Europe since 1500, the subject and topic of which varies by term and instructor. Precise titles and descriptions to be inserted in the Schedule of Classes.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HIST 79295 SPECIAL TOPICS IN GLOBAL HISTORY 3 Credit Hours**

(Repeatable for credit) (Slashed with HIST 49295 and HIST 59295)

Special course in the history of the ancient and medieval worlds, Africa, Asia, Latin America, and/or the Middle East, the subject and topic of which varies by term and instructor. Precise titles and descriptions to be inserted in the Schedule of Classes.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HIST 81001 METHODS OF HISTORICAL RESEARCH 3 Credit Hours**

The course introduces graduate students to library reference tools, journal literature, research methodology, quantitative techniques and writing and original research paper.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HIST 81002 HISTORIOGRAPHY 3 Credit Hours**

Development of historical thinking. Students will read excerpts of famous historians and prepare papers.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HIST 81070 WRITING SEMINAR IN HISTORY 3 Credit Hours**

(Repeatable twice for credit) (Slashed with HIST 61070) Students will spend the semester conceptualizing, researching, and writing an article-length piece of original historical scholarship. Basic topics to be addressed include prospectus drafting, source identification,

historiography, research methods, scholarly writing and revision, oral presentation, and professional critiquing. All students will be expected to supplement the guidance they receive from the seminar instructor with regular consultations with their departmental advisors.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Seminar

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HIST 82070 AMERICAN HISTORY FROM PRECONTACT NATIVE AMERICA THROUGH THE CIVIL WAR 3 Credit Hours**

(Slashed with HIST 62070) This reading colloquium will survey the major aspects of American history from the arrival of Europeans in North America through the colonial period of American history and up to the Civil War and Reconstruction. Students will be introduced to both historical content as well as the major historiographical currents in this segment of US history. The aim of the course is to prepare students for comprehensive exams as well as to teach the first half of the US survey course.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Colloquium, Seminar

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**HIST 82071 AMERICAN HISTORY FROM THE CIVIL WAR TO THE PRESENT 3 Credit Hours**

(Slashed with HIST 62071) This reading colloquium will survey major aspects of American history since the Civil War within the historiographical traditions through which they have been understood. The aim of the course is to prepare students for comprehensive exams as well as to teach the second half of the US survey course.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Colloquium, Seminar

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter



**HIST 82285 AMERICAN INTELLECTUAL AND CULTURAL HISTORY SINCE 1877 3 Credit Hours**

(Slashed with HIST 82285) This colloquium will explore American Intellectual and Cultural History after 1877 by focusing on modernity. Our readings will discuss modernity's evolution from its late nineteenth-century roots to its dismantlement in the current epoch. We will hear, see, and read about this idea and how it is applied to various manifestations within our society, from material culture to advertising, music, and film.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Colloquium, Seminar

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HIST 82345 IMAGES AND IDENTITIES IN US FOREIGN RELATIONS 3 Credit Hours**

This graduate-level reading colloquium will explore the construction of cultural images and national identities in US foreign relations. Course readings and discussions will deal not only with the ways that Americans have "constructed" other nations but also with how other nations have "constructed" the United States. Themes to be explored include the role of intangibles such as culture in the making of policy; the accuracy or inaccuracy of cultural constructs; and the permanency or malleability of cultural ideas.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Colloquium, Seminar

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HIST 82400 THE LENS OF WAR: AMERICAN HISTORY THROUGH THE STUDY OF THE MILITARY 3 Credit Hours**

(Slashed with HIST 62400) A survey of the impact conflict and the peacetime military have had on both the history and historiography of colonial America and the United States. Thematic points of emphasis include, but are not limited to civil-military relations, race, national identity, memory, gender, western expansion, American economic development, the growth of the federal government, Cold War culture, and citizenship.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Colloquium, Seminar

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HIST 89199 DISSERTATION I 15 Credit Hours**

(Repeatable for credit) Doctoral dissertation, for which registration in at least two semesters is required first of which will be semester in which dissertation work is begun and continuing until the completion of 30 hours.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Dissertation

**Contact Hours:** 15 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**HIST 89299 DISSERTATION II 15 Credit Hours**

(Repeatable for credit) Continuing registration required of doctoral students who have completed the initial 30 hours of dissertation and continuing until all degree requirements are met.

**Prerequisite:** HIST 89199; and doctoral standing.

**Schedule Type:** Dissertation

**Contact Hours:** 15 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**HIST 89896 INDIVIDUAL INVESTIGATION 2,3 Credit Hours**

(Repeatable for credit)

**Prerequisite:** Doctoral standing.

**Schedule Type:** Individual Investigation

**Contact Hours:** 2-3 other

**Grade Mode:** Standard Letter-IP

**HIST 89898 RESEARCH 1-15 Credit Hours**

(Repeatable for credit)

**Prerequisite:** Doctoral Standing.

**Schedule Type:** Research

**Contact Hours:** 1-15 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

## Department of Mathematical Sciences Mathematics (MATH)

**MATH 00020 PRE-ALGEBRA 2 Credit Hours**

Course covers properties of whole numbers, fractions, decimals, percents, signed numbers and order of operations. Mental math and elementary algebraic thinking skills are emphasized. Use of calculators is not allowed. Course does not count toward graduation.

**Prerequisite:** 0-9 ALEKS math score.

**Schedule Type:** Emporium

**Contact Hours:** 2 other

**Grade Mode:** Standard Letter

**MATH 00021 BASIC ALGEBRA I 2 Credit Hours**

Course includes operations on integers, fractions, decimals and percents, and properties of real numbers. Introduction to variables, first degree equations and problem-solving with formulas. Equations and inequalities in one variable, linear equations, rate of change and slope, graphing in the cartesian plane. Course does not count toward graduation.

**Prerequisite:** Minimum 10 ALEKS math score.

**Pre/corequisite:** MATH 00020 with a minimum C grade.

**Schedule Type:** Emporium

**Contact Hours:** 2 other

**Grade Mode:** Standard Letter

**MATH 00022 BASIC ALGEBRA II 2 Credit Hours**

Introduction to functions, systems of linear equations, exponents, polynomial operations, scientific notation. Factoring polynomials, solving quadratics by factoring, radicals and rational exponents. Course does not count toward graduation.

**Prerequisite:** Minimum 25 ALEKS math score; or MATH 00021 with a minimum C grade.

**Schedule Type:** Emporium

**Contact Hours:** 2 other

**Grade Mode:** Standard Letter

**MATH 00095 SPECIAL TOPICS IN MATHEMATICS 1-4 Credit Hours**

(Repeatable for credit) Topics in mathematics not covered in regular courses. Offered when opportunities and resources permit; the topic is announced when the course is scheduled. Course does not count toward graduation.

**Prerequisite:** None.

**Schedule Type:** Emporium

**Contact Hours:** 1-4 other

**Grade Mode:** Standard Letter

**MATH 10040 INTRODUCTORY STATISTICS PLUS (KMCR) 5 Credit Hours**

(Equivalent to MATH 10041) An introduction to statistical thinking and statistical methods with a review of basic algebra. Emphasis is on statistical literacy, conceptual understanding and active learning in the classroom. This course also provides just-in-time remediation to help students achieve the same learning outcomes as MATH 10041. No credit earned for this course if a student already earned credit for MATH 10041.

**Prerequisite:** ALEKS Math score between 25 and 34; or MATH 00021 with a minimum C grade.

**Schedule Type:** Lecture

**Contact Hours:** 5 lecture

**Grade Mode:** Standard Letter

**Attributes:** Kent Core Mathematics and Critical Reasoning, TAG Mathematics, Transfer Module Mathematics

**MATH 10041 INTRODUCTORY STATISTICS (KMCR) 4 Credit Hours**

(Equivalent to MATH 10040) An introduction to statistical thinking and statistical methods. Emphasis is on statistical literacy, conceptual understanding and active learning in the classroom. No credit earned for this course if a student already earned credit for MATH 10040.

**Prerequisite:** Minimum 22 ACT math score; or minimum 530 SAT math score; or minimum 35 ALEKS Math score; or MATH 00022 with a minimum C grade; or any higher level MATH course.

**Schedule Type:** Emporium

**Contact Hours:** 4 other

**Grade Mode:** Standard Letter

**Attributes:** Kent Core Mathematics and Critical Reasoning, Transfer Module Mathematics

**MATH 10050 QUANTITATIVE REASONING PLUS (KMCR) 5 Credit Hours**

(Equivalent to MATH 10051) In the broadest sense mathematics should provide students the needed quantitative tools, logical reasoning and problem-solving skills, and a sense that quantitative modeling can be used to describe and understand developments in many areas of daily living. Since critical thinking is the primary objective and outcome for our course, in each area of concentration (numeracy, mathematical modeling, and probability and statistics) students will need to read and glean information from the problem situation, convert the information into a usable form, perform any needed routine calculations, make or draw a conclusion, and then communicate the result via explanation using quantitative reasoning by writing coherent statements and paragraphs. This course also provides just-in-time remediation to help students achieve the same learning outcomes as MATH 10051.

**Prerequisite:** ALEKS Math score between 25 and 34; or MATH 00021 with a minimum C grade.

**Schedule Type:** Lecture

**Contact Hours:** 5 lecture

**Grade Mode:** Standard Letter

**Attributes:** Kent Core Mathematics and Critical Reasoning, TAG Mathematics, Transfer Module Mathematics

**MATH 10051 QUANTITATIVE REASONING (KMCR) 4 Credit Hours**

(Equivalent to MATH 10050) In the broadest sense, mathematics should provide students the needed quantitative tools, logical reasoning and problem solving skills, and a sense that quantitative modeling can be used to describe and understand developments in many areas of daily living. Since critical thinking is the primary objective and outcome for this course, in each area of concentration (numeracy, mathematical modeling and probability and statistics), students will read and glean information from the problem situation, convert the information into a usable form, perform any needed routine calculations, make or draw a conclusion, and then communicate the result via explanation using quantitative reasoning by writing coherent statements and paragraphs.

**Prerequisite:** Minimum 22 ACT math score; or minimum 530 SAT math score; or minimum 35 ALEKS Math score; or MATH 00022 with a minimum C grade; or any higher level MATH course.

**Schedule Type:** Lecture

**Contact Hours:** 4 lecture

**Grade Mode:** Standard Letter

**Attributes:** Kent Core Mathematics and Critical Reasoning

**MATH 10675 ALGEBRA FOR CALCULUS BOOST (KMCR) 5 Credit Hours**

(Equivalent to MATH 10775 and MATH 11010) Course includes an extensive and rich immersion into the structure of functions. Routine analysis includes discussion of domain, range, zeros, general function behavior (increasing, decreasing, extrema, etc.). Operations with functions, including addition, subtraction, multiplication, division, composition and inversion. Functions are studied as a tool to analyze rates of change in real-world scenarios. The emphasis is on linear, polynomial, exponential and rational functions, with an extensive problem-solving component. A two-week review of intermediate algebra skills is included in the course, as is extra time studying quadratic functions, absolute value functions, systems of equations and extended time on logarithms.

**Prerequisite:** Minimum 22 ACT math score; or minimum 530 SAT math score; or ALEKS math score between 35-44; or MATH 00022 with a minimum C grade.

**Schedule Type:** Lecture

**Contact Hours:** 5 lecture

**Grade Mode:** Standard Letter

**Attributes:** Kent Core Mathematics and Critical Reasoning

**MATH 10771 BASIC MATHEMATICAL CONCEPTS I PLUS (KMCR) 5 Credit Hours**

(Equivalent to MATH 14001) Course covers the development of the real-number system and its sub-systems, open sentences, numeration systems, modular arithmetic and some number theory concepts. Additional concepts covered include place value, logic, sets, algebra concepts and problem solving.

**Prerequisite:** Minimum 35 ALEKS math score; or minimum 22 ACT math score; or minimum 530 SAT math score; or MATH 00022 with a minimum C grade.

**Schedule Type:** Lecture

**Contact Hours:** 5 lecture

**Grade Mode:** Standard Letter

**Attributes:** Kent Core Mathematics and Critical Reasoning

**MATH 10772 MODELING ALGEBRA PLUS (KMCR) 5 Credit Hours**  
(Equivalent to MATH 11009) Study of algebra arising in the context of real-world applications, including linear, polynomial, exponential and logarithmic models. Includes a review of factoring and functions. Course is intended for students not planning to take calculus. No credit earned toward a degree for this course if student already earned credit for MATH 11010.

**Prerequisite:** Minimum 35 ALEKS math score; or minimum 22 ACT math score; or minimum 530 SAT math score; or MATH 00022 with a minimum C grade.

**Schedule Type:** Lecture

**Contact Hours:** 5 lecture

**Grade Mode:** Standard Letter

**Attributes:** Kent Core Mathematics and Critical Reasoning

**MATH 10775 ALGEBRA FOR CALCULUS PLUS (KMCR) 4 Credit Hours**

(Equivalent to MATH 10675 or MATH 10775 or MATH 11010) Course includes an extensive and rich immersion into the structure of functions. Routine analysis includes discussion of domain, range, zeros, general function behavior (increasing, decreasing, extrema, etc.). Operations with functions, including addition, subtraction, multiplication, division, composition and inversion. Functions are studied as a tool to analyze rates of change in real-world scenarios. The emphasis is on linear, polynomial, exponential and rational functions, with an extensive problem-solving component. Skill review is included in the course, as is time studying quadratic functions, absolute value functions, systems of equations and extended time on logarithms.

**Prerequisite:** ALEKS math score between 45 and 54; or MATH 10772 with a minimum C grade.

**Schedule Type:** Lecture

**Contact Hours:** 4 lecture

**Grade Mode:** Standard Letter

**Attributes:** Kent Core Mathematics and Critical Reasoning

**MATH 11008 EXPLORATIONS IN MODERN MATHEMATICS (KMCR) 3 Credit Hours**

Topics from various branches of mathematics will be chosen to introduce the student to the wide varieties of ways in which mathematics affects everyday life.

**Prerequisite:** Minimum 35 ALEKS math score; or minimum 22 ACT math score; or MATH 00022 or any higher MATH course with a minimum C grade.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Kent Core Mathematics and Critical Reasoning

**MATH 11009 MODELING ALGEBRA (KMCR) 4 Credit Hours**

(Equivalent to MATH 10772) Study of algebra arising in the context of real-world applications, including linear, polynomial, exponential and logarithmic models. Intended for students not planning to take calculus. No credit earned toward a degree for this course if the student already earned credit for MATH 11010.

**Prerequisite:** Minimum 45 ALEKS math score.

**Schedule Type:** Lecture

**Contact Hours:** 4 lecture

**Grade Mode:** Standard Letter

**Attributes:** Kent Core Mathematics and Critical Reasoning

**MATH 11010 ALGEBRA FOR CALCULUS (KMCR) 3 Credit Hours**

(Equivalent to MATH 10675 and MATH 10775) Course includes an extensive and rich immersion into the structure of functions. Routine analysis includes discussion of domain, range, zeros, general function behavior (increasing, decreasing, extrema, etc.). Operations with functions, including addition, subtraction, multiplication, division, composition and inversion. Functions are studied as a tool to analyze rates of change in real-world scenarios. Emphasis is on linear, polynomial, exponential and rational functions, with an extensive problem-solving component.

**Prerequisite:** Minimum 55 ALEKS math score; or MATH 10772 or MATH 11009 with a minimum B grade.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Kent Core Mathematics and Critical Reasoning, Transfer Module Mathematics

**MATH 11012 INTUITIVE CALCULUS (KMCR) 3 Credit Hours**

Course is designed to give an overview of differential and integral calculus to business and life-science majors. Course does not include trigonometric functions. No credit earned toward a degree for this course if the student already earned credit for MATH 12002.

**Prerequisite:** Minimum 67 ALEKS math score; or minimum C grade in MATH 10675 or MATH 10775 or MATH 11010.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Kent Core Mathematics and Critical Reasoning, Transfer Module Mathematics

**MATH 11022 TRIGONOMETRY (KMCR) 3 Credit Hours**

Solution of triangles, trigonometric equations and identities.

**Prerequisite:** Minimum 67 ALEKS math score; or minimum C grade in MATH 10675 or MATH 10775 or MATH 11010.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Kent Core Mathematics and Critical Reasoning, Transfer Module Mathematics

**MATH 12002 ANALYTIC GEOMETRY AND CALCULUS I (KMCR) 5 Credit Hours**

Concepts of limit, continuity and derivative, and the indefinite and definite integral for functions of one real variable. Maximization, related rates, fundamental theorem of calculus. No credit earned toward a degree for this course if the student already earned credit for MATH 12011 and MATH 12012.

**Prerequisite:** Minimum 78 ALEKS math score; or MATH 11022 with a minimum C grade.

**Schedule Type:** Lecture

**Contact Hours:** 5 lecture

**Grade Mode:** Standard Letter

**Attributes:** Kent Core Mathematics and Critical Reasoning, Transfer Module Mathematics

**MATH 12003 ANALYTIC GEOMETRY AND CALCULUS II 5 Credit Hours**

Continued study of techniques and applications of integration; trigonometric, logarithmic and exponential functions; polar coordinates; vectors; parametric equations; sequences and series.

**Prerequisite:** MATH 12002 or MATH 12012 with a minimum C grade.

**Schedule Type:** Lecture

**Contact Hours:** 5 lecture

**Grade Mode:** Standard Letter

**Attributes:** Transfer Module Mathematics

**MATH 12011 CALCULUS WITH PRECALCULUS I (KMCR) 3 Credit Hours**

Introduction to differential calculus with a review of algebra and trigonometry. Includes exponents, factoring, functions, graphs, tangent lines, limits, continuity, derivatives and related rates. No credit earned toward a degree for this course if the student already earned credit for MATH 12002.

**Prerequisite:** Minimum 67 ALEKS math score.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Kent Core Mathematics and Critical Reasoning, Transfer Module Mathematics

**MATH 12012 CALCULUS WITH PRECALCULUS II (KMCR) 3 Credit Hours**

Development of integral calculus and continued study of differential calculus. Includes curve sketching optimization fundamental theorem of calculus areas between curves, exponential and logarithmic functions. No credit earned toward a degree for this course if student already earned credit for MATH 12002.

**Prerequisite:** MATH 12011 with a minimum C grade.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Kent Core Mathematics and Critical Reasoning, Transfer Module Mathematics

**MATH 12013 BRIEF CALCULUS II 3 Credit Hours**

This is a condensed version of MATH 12003 to meet the needs of majors that do not require the full force of Math 12003. The course starts with integration by parts, approximating integrals, and applications of integrals. It follows with a brief introduction to series, parametric equations and polar coordinates, and finishes with vectors and geometry of space. No credit earned toward a degree for this course if student already earned credit for MATH 12003.

**Prerequisite:** Minimum C grade in MATH 12002 or MATH 12012 or MATH 12021.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MATH 12021 CALCULUS FOR LIFE SCIENCES 4 Credit Hours**

Differential and integral calculus using examples and problems in life sciences.

**Prerequisite:** Minimum 78 ALEKS math score; or MATH 11022 or MATH 12011 with a minimum C grade.

**Schedule Type:** Lecture

**Contact Hours:** 4 lecture

**Grade Mode:** Standard Letter

**MATH 12022 PROBABILITY AND STATISTICS FOR LIFE SCIENCES 3 Credit Hours**

Probability and statistics with applications in medical and biological sciences.

**Prerequisite:** Minimum C grade in MATH 12002 or MATH 12012 or MATH 12021.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MATH 14001 BASIC MATHEMATICAL CONCEPTS I (KMCR) 4 Credit Hours**

(Equivalent to MATH 10771) Development of the real number system and its sub-systems, open sentences, numeration systems, modular arithmetic and some number theory concepts.

**Prerequisite:** Minimum 45 ALEKS math score; or any higher level MATH course (except MATH 10041, MATH 10051 or MATH 11008).

**Schedule Type:** Lecture

**Contact Hours:** 4 lecture

**Grade Mode:** Standard Letter

**Attributes:** Kent Core Mathematics and Critical Reasoning

**MATH 14002 BASIC MATHEMATICAL CONCEPTS II (KMCR) 4 Credit Hours**

Basic concepts of probability, statistics and geometry.

**Prerequisite:** MATH 10771 or MATH 14001 with a minimum C grade.

**Schedule Type:** Lecture

**Contact Hours:** 4 lecture

**Grade Mode:** Standard Letter

**Attributes:** Kent Core Mathematics and Critical Reasoning

**MATH 19002 TECHNICAL MATHEMATICS II 4 Credit Hours**

Emphasizes advanced topics in algebra and trigonometry, analytic geometry, derivatives and integrals.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 4 lecture

**Grade Mode:** Standard Letter

**MATH 19099 FIELD EXPERIENCE IN MATHEMATICS INSTRUCTION (ELR) 1 Credit Hour**

(Repeatable for credit) Learning through tutoring. A supervised lab experience in providing explanations of mathematical concepts.

**Prerequisite:** Special approval.

**Schedule Type:** Lecture

**Contact Hours:** 1 lecture

**Grade Mode:** Standard Letter

**Attributes:** Experiential Learning Requirement

**MATH 20011 DECISION-MAKING UNDER UNCERTAINTY 3 Credit Hours**

An introductory course on applied statistics. The course provides a hands-on approach to understanding, quantification and decision-making under various forms of uncertainty. The main topics include visualization of uncertainty, probabilistic quantification of uncertainty, Bayesian and non-Bayesian ways of decision-making under uncertainty. Class activities incorporate active learning elements, including in-classroom computation with professional-grade software for statistical analysis and simulation.

**Prerequisite:** MATH 12002 with a minimum C grade.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MATH 20095 SPECIAL TOPICS IN MATHEMATICS 1-5 Credit Hours**  
(Repeatable for credit) Various special courses will be announced in the schedule of classes under this course number with different section numbers.

**Prerequisite:** Special approval.

**Schedule Type:** Lecture

**Contact Hours:** 1-5 lecture

**Grade Mode:** Standard Letter

**MATH 21001 LINEAR ALGEBRA 3 Credit Hours**

Systems of linear equations and the associated matrix operations, linear transformations, vector spaces, bases, eigenvectors.

**Prerequisite:** Minimum C grade in MATH 11012 or MATH 12002 or MATH 12012 or MATH 12021.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** TAG Mathematics

**MATH 21002 APPLIED LINEAR ALGEBRA 3 Credit Hours**

This is an introductory course in linear algebra. The goal of the course is to teach the math fundamentals of linear algebra in a way that focuses more on applications. The topics include systems of linear equations, matrix operations, vector spaces, eigenvalues and eigenvectors, singular value decompositions, and their applications.

**Prerequisite:** Minimum C grades in MATH 12002 or MATH 11012 or MATH 12012 or MATH 12021.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MATH 21092 COMPUTER PRACTICUM (ELR) 2 Credit Hours**

(Repeatable for credit) Supervised work experience in a computer installation.

**Prerequisite:** None.

**Schedule Type:** Practical Experience

**Contact Hours:** 2 other

**Grade Mode:** Standard Letter

**Attributes:** Experiential Learning Requirement

**MATH 22005 ANALYTIC GEOMETRY AND CALCULUS III 4 Credit Hours**

Study of functions of several variables, including partial derivatives and multiple integrals.

**Prerequisite:** MATH 12003 with a minimum C grade.

**Schedule Type:** Lecture

**Contact Hours:** 4 lecture

**Grade Mode:** Standard Letter

**MATH 23022 DISCRETE STRUCTURES FOR COMPUTER SCIENCE 3 Credit Hours**

(Cross-listed with CS 23022) Discrete structures for computer scientists with a focus on: mathematical reasoning, combinatorial analysis, discrete structures, algorithmic thinking, applications and modeling. Specific topics include logic, sets, functions, relations, algorithms, proof techniques, counting, graphs, trees, Boolean algebra, grammars and languages.

**Prerequisite:** Minimum 55 Compass Algebra score and either minimum 540 SAT math score or minimum 23 ACT math score; or CS 10051 and minimum C grade in MATH 11010.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MATH 30011 BASIC PROBABILITY AND STATISTICS 3 Credit Hours**

Analysis and representation of data. Controlled experiments and observations. Measurement errors. Correlation and regression. Sampling. Probability models and tests of models. Inference. This course cannot be used to meet the mathematics requirements for a BA in Mathematics or a BS in Applied Mathematics or Mathematics.

**Prerequisite:** Minimum 67 ALEKS math score; or minimum C grade in MATH 10675 or MATH 10775 or MATH 11010; or any course MATH 11012 to MATH 12022; or any course MATH 20000 to MATH 49999.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MATH 30055 MATHEMATICAL THEORY OF INTEREST 3 Credit Hours**

A calculus-based introduction to the mathematics of finance. Limited to deterministic analysis of interest rates annuities bonds and immunization. Emphasizes the mathematical theory of the subject matter.

**Prerequisite:** MATH 12003 with a minimum C grade.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MATH 31011 PROOFS IN DISCRETE MATHEMATICS 3 Credit Hours**

The study of discrete mathematical structures including sets, functions, and relations. The course includes an introduction to logical thinking with an emphasis on proof techniques. The course also emphasizes combinatorics topics such as recursion and counting.

**Prerequisite:** MATH 12002 with a minimum C grade.

**Pre/corequisite:** MATH 21001 or MATH 32051 with a minimum C grade.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MATH 32044 ORDINARY DIFFERENTIAL EQUATIONS 3 Credit Hours**

An introduction to ordinary differential equations and applications. Topics include solution methods, series solutions and singular points. Laplace transforms and linear systems. Applications include population dynamics, forced oscillations and resonance.

**Prerequisite:** MATH 21001 and MATH 22005 with a minimum C grade.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** TAG Mathematics

**MATH 32051 MATHEMATICAL METHODS IN THE PHYSICAL SCIENCES I 4 Credit Hours**

Mathematics background beyond calculus I and II for upper-division courses in the physical sciences. Topics include complex numbers and arithmetic, linear algebra, partial differentiation and multiple integrals.

**Prerequisite:** MATH 12003 with a minimum C grade.

**Schedule Type:** Lecture

**Contact Hours:** 4 lecture

**Grade Mode:** Standard Letter



**MATH 32052 MATHEMATICAL METHODS IN THE PHYSICAL SCIENCES II 4 Credit Hours**

Additional mathematics background for upper-division courses in the physical sciences. Topics include vector analysis, Fourier series and transforms ordinary differential equations and partial differential equations.

**Prerequisite:** MATH 32051 with a minimum C grade; or MATH 21001 and MATH 22005 with a minimum C grade.

**Schedule Type:** Lecture

**Contact Hours:** 4 lecture

**Grade Mode:** Standard Letter

**MATH 34001 FUNDAMENTAL CONCEPTS OF ALGEBRA 3 Credit Hours**

Professionalized course in algebra for prospective secondary teachers. Postulational development of number system of algebra; other systems, related topics, applications. This course cannot be used to meet the mathematical requirements for a BA in Mathematics or a BS in either Applied Mathematics or Mathematics. No credit earned toward a degree for this course if a student already earned credit for MATH 41001.

**Prerequisite:** MATH 12002 with a minimum C grade.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MATH 34002 FUNDAMENTAL CONCEPTS OF GEOMETRY 3 Credit Hours**

Professionalized course in geometry for secondary school teachers. Origin and development of the geometry of Euclid with modern refinements, topics, approaches. Other geometries, applications. This cannot be used to meet the mathematics requirement for a BA in Mathematics or a BS in either Applied Mathematics or Mathematics.

**Prerequisite:** MATH 12002 with a minimum C grade.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MATH 38001 HANDS-ON MATHEMATICS 3 Credit Hours**

Students take turns learning a topic and then teach that topic to the class. No text is required; the students use web resources and materials supplied by the instructor. Many of the topics have a hands-on component. Some examples are two- and three-dimensional tiling problems, the Towers of Hanoi and other problems with an inductive solution, and 'magic tricks' with a basis in algebra, parity or modular arithmetic.

**Prerequisite:** MATH 12003 with a minimum C grade.

**Schedule Type:** Seminar

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MATH 40011 PROBABILITY THEORY AND APPLICATIONS 3 Credit Hours**

(Slashed with MATH 50011) Permutations and combinations, discrete and continuous distributions, random variables, conditional probabilities, Baye's formula, mathematical expectation, law of large numbers, normal approximations, basic limit theorems.

**Prerequisite:** MATH 22005 or MATH 32051 with a minimum C grade.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MATH 40012 THEORY OF STATISTICS 3 Credit Hours**

(Slashed with MATH 50012) Sample spaces, continuous distributions, sampling distributions, point and interval estimation, hypothesis testing, types of error, level and power of tests, sequential and nonparametric methods.

**Prerequisite:** MATH 40011 with a minimum C grade.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MATH 40015 APPLIED STATISTICS 3 Credit Hours**

(Slashed with MATH 50015) Course is based on classical linear regression techniques with an emphasis on real data using the principles of sound data analysis. Close attention is given to issues of interpretation, diagnostics, outliers and influential points, goodness of fit and model selection. Topics include simple and multiple linear regression, transformation and modifications of covariates and responses, design matrices, variable selection and logistic regression. Students with statistics courses from other disciplines should consult with the Department of Mathematical Sciences for possible prerequisite overrides.

**Prerequisite:** (MATH 21001 with a minimum C grade OR MATH 21002 with a minimum C grade) AND (MATH 12022 with a minimum B grade OR MATH 20011 with a minimum C grade OR MATH 30011 with a minimum B grade OR MATH 40012 with a minimum C grade).

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MATH 40024 COMPUTATIONAL STATISTICS 3 Credit Hours**

(Slashed with MATH 50024) This course is about the use of computational tools to manage, explore, summarize, and visualize data, as well as the computational underpinnings of fitting statistical models. It uses mostly the statistical computation language R, but also other languages like Python and Matlab. It also covers: simulation and random number generation, computationally intensive methods like the bootstrap and permutation tests, Expectation-Maximization and related algorithms, and dimensionality reduction via matrix decomposition.

Students with statistics courses from other disciplines should consult with the Department of Mathematical Sciences for possible prerequisite overrides.

**Prerequisite:** (MATH 21001 with a minimum C grade OR MATH 21002 with a minimum C grade) AND (MATH 12022 with a minimum B grade OR MATH 20011 with a minimum C grade OR MATH 30011 with a minimum B grade OR MATH 40012 with a minimum C grade).

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MATH 40028 STATISTICAL LEARNING 3 Credit Hours**

(Slashed with MATH 50028) This course is about the statistical foundations of modern machine learning techniques. The main focus is classification and prediction, using regression-based, tree-based, and kernel-based methods. Specific methods include logistic regression, classification and regression trees, random forests, and support vector machines. The course also includes an introduction to unsupervised and semi-supervised learning.

**Prerequisite:** MATH 40015 and MATH 40024 with a minimum C grade.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MATH 40051 TOPICS IN PROBABILITY THEORY AND STOCHASTIC PROCESSES 3 Credit Hours**

(Slashed with MATH 50051) Topics from conditional expectations, Markov chains, Markov processes, Brownian motion and Martingales and their applications to stochastic calculus.

**Prerequisite:** MATH 40011 with a minimum C grade.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MATH 40055 ACTUARIAL MATHEMATICS I (ELR) (WIC) 4 Credit Hours**

(Slashed with MATH 50055) Topics from survival models, stochastic analysis of annuities and life insurance and casualty models. .

**Prerequisite:** MATH 30055 and MATH 40011 with a minimum C grade.

**Schedule Type:** Lecture

**Contact Hours:** 4 lecture

**Grade Mode:** Standard Letter

**Attributes:** Experiential Learning Requirement, Writing Intensive Course

**MATH 40056 ACTUARIAL MATHEMATICS II 4 Credit Hours**

(Slashed with MATH 50056) Benefit premiums, benefit reserves and their analysis, decrement models, joint survivorship, risk models.

**Prerequisite:** MATH 40055 with a minimum C grade.

**Schedule Type:** Lecture

**Contact Hours:** 4 lecture

**Grade Mode:** Standard Letter

**MATH 40059 STOCHASTIC ACTUARIAL MODELS 3 Credit Hours**

(Slashed with MATH 50059) Topics from investment risk, mean variance analysis, CAPM, financial derivatives, binomial pricing model, stochastic calculus, Black-Scholes pricing model, and Greeks.

**Prerequisite:** Minimum C grade in MATH 30055 and MATH 40011.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MATH 40093 VARIABLE TITLE WORKSHOP IN MATHEMATICS 1-6 Credit Hours**

(Repeatable for credit) Studies special topics in mathematics. Not acceptable for credit toward a major or minor in math without approval of student's adviser.

**Prerequisite:** Special approval.

**Schedule Type:** Workshop

**Contact Hours:** 1-6 other

**Grade Mode:** Satisfactory/Unsatisfactory

**MATH 41001 MODERN ALGEBRA I (ELR) (WIC) 3 Credit Hours**

(Slashed with MATH 51001) Basic properties of groups, subgroups, factor groups. Basic properties of rings, integral domains and homomorphisms.

**Prerequisite:** MATH 22005 or MATH 32051 with a minimum C grade; and MATH 31011 with a minimum C grade.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Experiential Learning Requirement, Writing Intensive Course

**MATH 41002 MODERN ALGEBRA II (ELR) (WIC) 3 Credit Hours**

(Slashed with MATH 51002) A continuation of MATH 41001, emphasizing properties of rings, their ideals, polynomial ring extensions, fields, finite degree extensions, roots of polynomials, constructability.

**Prerequisite:** Minimum C grade in MATH 41001.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Experiential Learning Requirement, Writing Intensive Course

**MATH 41021 THEORY OF MATRICES 3 Credit Hours**

(Slashed with MATH 51021) A rigorous study of the topics introduced in matrix algebra. Topics included are vector space preliminaries, canonical forms of matrices, diagonalizability criteria.

**Prerequisite:** MATH 21001 and MATH 22005 with a minimum C grade.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MATH 41038 INTERMEDIATE LOGIC 3 Credit Hours**

(Slashed with MATH 51038; Cross-listed with CS 41038 and PHIL 41038 and PHIL 51038) A detailed, systematic study of symbolic logic for philosophy majors, mathematics majors, computer science majors, and anyone else interested in advanced study in logic. The aim of the course is twofold: first, to develop a facility in understanding and using symbolic logic for various purposes, and second, to understand and appreciate symbolic logic as an area of study in itself. Topics include the distinction between syntactic, object-level proofs and semantic, meta-level proofs, the distinction between axiomatic systems and natural deduction systems of object-level proofs, various systems of modal logic, and some non-classical logics.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MATH 41045 METALOGIC 3 Credit Hours**

(Slashed with MATH 51045; Cross-listed with CS 41045 and CS 51045 and PHIL 41045 and PHIL 51045) A detailed, systematic study of metalogic for philosophy majors, mathematics majors, computer science majors, and anyone else interested in advanced study in logic. Topics include the soundness and completeness of the propositional and predicate calculi, the decidability of propositional calculus, the undecidability of predicate calculus, Gödel's incompleteness proof for languages capable of expressing arithmetic, the co-extensionality of the set of general recursive functions, abacus computable functions, and Turing computable functions, and the philosophical motivations for the ChurchTuring Thesis that all computable functions are Turing computable.

**Prerequisite:** PHIL 41038.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MATH 42001 ANALYSIS I (ELR) (WIC) 3 Credit Hours**

(Slashed with MATH 52001) Topics include basic structure of the real numbers, Cauchy sequences, convergence, completeness of the real numbers, continuity, differentiation and Riemann integration.

**Prerequisite:** MATH 22005 or MATH 32051 with a minimum C grade; and MATH 31011 with a minimum C grade.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Experiential Learning Requirement, Writing Intensive Course

**MATH 42002 ANALYSIS II (ELR) (WIC) 3 Credit Hours**

(Slashed with MATH 52002) Topics include further development of integration theory, infinite series, uniform convergence, several variable calculus and metric spaces.

**Prerequisite:** MATH 42001 with a minimum C grade.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Experiential Learning Requirement, Writing Intensive Course

**MATH 42011 MATHEMATICAL OPTIMIZATION 3 Credit Hours**

(Slashed with MATH 52011) Analytic and numerical techniques for location of extreme points of functions and calculus of variations. Both constrained and unconstrained problems are considered.

**Prerequisite:** Minimum C grade in MATH 21001 and MATH 22005 or MATH 32051.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MATH 42021 GRAPH THEORY AND COMBINATORICS 3 Credit Hours**

(Slashed with MATH 52021) Fundamentals and applications of combinatorial mathematics. Topics include traversability, colorability, networks, inclusion and exclusion, matching and designs.

**Prerequisite:** MATH 12003 and MATH 21001 with a minimum C grade.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MATH 42024 NUMBERS AND GAMES 3 Credit Hours**

(Slashed with MATH 52024) The study of partisan and impartial combinatorial games; games as numbers; Grundy-Sprague theory.

**Prerequisite:** MATH 21001 with a minimum C grade.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MATH 42031 MATHEMATICAL MODELS AND DYNAMICAL SYSTEMS 3 Credit Hours**

(Slashed with MATH 52031) Formulation and analysis of mathematical models for a variety of phenomena. Mathematical methods from optimization dynamical systems and probability are developed and applied. Modern software tools are utilized.

**Prerequisite:** MATH 32044 or MATH 32052 with a minimum C grade.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MATH 42039 MODELING PROJECTS (ELR) (WIC) 3 Credit Hours**

(Slashed with MATH 52039) Individual and small-group projects concerned with the formulation and analysis of mathematical models in a variety of areas. Written and oral reports are required.

**Prerequisite:** MATH 42031 with a minimum C grade.

**Schedule Type:** Seminar

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter-IP

**Attributes:** Experiential Learning Requirement, Writing Intensive Course

**MATH 42041 ADVANCED CALCULUS 3 Credit Hours**

(Slashed with MATH 52041) The calculus and applications of scalar and vector functions of several variables. Vector differential and integral calculus. Applications to field theories, electricity and magnetism and fluid flow.

**Prerequisite:** MATH 21001 with a minimum C grade; and MATH 22005 or MATH 32051.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MATH 42045 PARTIAL DIFFERENTIAL EQUATIONS 3 Credit Hours**

(Slashed with MATH 52045) An introduction to Fourier series, Fourier transforms and partial differential equations. Wave, heat and potential equations of mathematical physics. Additional topics include Green's functions and the Method of Characteristics for wave equations.

**Prerequisite:** MATH 32044 or MATH 32052 with a minimum C grade.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MATH 42048 COMPLEX VARIABLES 3 Credit Hours**

(Slashed with MATH 52048) Algebra of complex numbers, analytic functions, mappings, Cauchy integral theory, residue theory and applications.

**Prerequisite:** MATH 22005 or MATH 32051 with a minimum C grade.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MATH 42201 NUMERICAL COMPUTING I 3 Credit Hours**

(Cross-listed with CS 42201 and CS 52201; slashed with MATH 52201).

An introduction to numerical methods and software for solving many common scientific computing problems. Linear systems, least-squares data fitting, nonlinear equations and systems, and optimization problems.

**Prerequisite:** Minimum C grade in all the following MATH 12003; and MATH 21001 or MATH 32051; and CS 13001 or (CS 13011 and CS 13012).

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MATH 42202 NUMERICAL COMPUTING II 3 Credit Hours**

(Cross-listed with CS 42202 and CS 52202) (Slashed with MATH 52202)

A continuation of MATH 42201. Topics include interpolation, numerical differentiation and integration, and numerical solution of ordinary differential equations.

**Prerequisite:** MATH 42201 with a minimum C grade; and MATH 32044 or MATH 32052 with a minimum C grade.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MATH 45011 DIFFERENTIAL GEOMETRY 3 Credit Hours**

(Slashed with MATH 55011) Analytic and metric differential geometry of curves and surfaces.

**Prerequisite:** MATH 22005 with a minimum C grade.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MATH 45021 EUCLIDEAN GEOMETRY 3 Credit Hours**  
 (Slashed with MATH 55021) Geometry of Euclid extended to advanced topics of the triangle, quadrilaterals and circles: cross-ratio, groups, constructions, geometric generalizations; inversion.  
**Prerequisite:** MATH 21001 with a minimum C grade.  
**Schedule Type:** Lecture  
**Contact Hours:** 3 lecture  
**Grade Mode:** Standard Letter

**MATH 45022 LINEAR GEOMETRY 3 Credit Hours**  
 (Slashed with MATH 55022) Using transformations as a tool to study geometry and to differentiate between different kinds of geometry. Linear algebra methods applied to geometry.  
**Prerequisite:** MATH 21001 with a minimum C grade.  
**Schedule Type:** Lecture  
**Contact Hours:** 3 lecture  
**Grade Mode:** Standard Letter

**MATH 46001 ELEMENTARY TOPOLOGY 3 Credit Hours**  
 (Slashed with MATH 56001) Metric spaces, introduction to topological spaces, separation axioms.  
**Prerequisite:** MATH 22005 with a minimum C grade.  
**Schedule Type:** Lecture  
**Contact Hours:** 3 lecture  
**Grade Mode:** Standard Letter

**MATH 47011 THEORY OF NUMBERS 3 Credit Hours**  
 (Slashed with MATH 57011) Divisibility properties of the integers, prime numbers, congruences, quadratic reciprocity, Diophantine equations, number theoretic functions, simple continued fractions, rational approximations.  
**Prerequisite:** MATH 12003 with a minimum C grade.  
**Schedule Type:** Lecture  
**Contact Hours:** 3 lecture  
**Grade Mode:** Standard Letter

**MATH 47021 HISTORY OF MATHEMATICS 3 Credit Hours**  
 (Slashed with MATH 57021) Survey from Babylonian and Egyptian mathematics to 20th century mathematics with emphasis on the development of algebra, geometry, calculus, number theory.  
**Prerequisite:** MATH 23022 or higher with a minimum C grade.  
**Schedule Type:** Lecture  
**Contact Hours:** 3 lecture  
**Grade Mode:** Standard Letter

**MATH 49995 SELECTED TOPICS IN MATHEMATICS AND ITS APPLICATIONS 1-4 Credit Hours**  
 (Repeatable for credit) Various special courses will be announced in the schedule of classes under this course number with different section numbers.  
**Prerequisite:** Special approval.  
**Schedule Type:** Lecture  
**Contact Hours:** 1-4 lecture  
**Grade Mode:** Standard Letter

**MATH 49996 INDIVIDUAL STUDY 1-4 Credit Hours**  
 (Repeatable for credit) Individual investigation in mathematics.  
**Prerequisite:** Special approval.  
**Schedule Type:** Individual Investigation  
**Contact Hours:** 1-4 other  
**Grade Mode:** Standard Letter

**MATH 49998 RESEARCH (ELR) 1-15 Credit Hours**  
 (Repeatable for credit) Research in mathematics.  
**Prerequisite:** Special approval.  
**Schedule Type:** Research  
**Contact Hours:** 1-15 other  
**Grade Mode:** Satisfactory/Unsatisfactory-IP  
**Attributes:** Experiential Learning Requirement

**MATH 50011 PROBABILITY THEORY AND APPLICATIONS 3 Credit Hours**  
 (Slashed with MATH 40011) Permutations and combinations, discrete and continuous distributions, random variables, conditional probabilities, Baye's formula, mathematical expectation, law of large numbers, normal approximations, basic limit theorems.  
**Prerequisite:** Graduate standing.  
**Schedule Type:** Lecture  
**Contact Hours:** 3 lecture  
**Grade Mode:** Standard Letter

**MATH 50012 THEORY OF STATISTICS 3 Credit Hours**  
 (Slashed with MATH 40012) Sample spaces, continuous distributions, sampling distributions, point and interval estimation, hypothesis testing, types of error, level and power of tests, sequential and nonparametric methods.  
**Prerequisite:** MATH 40011 or MATH 50011; and graduate standing.  
**Schedule Type:** Lecture  
**Contact Hours:** 3 lecture  
**Grade Mode:** Standard Letter

**MATH 50015 APPLIED STATISTICS 3 Credit Hours**  
 (Slashed with MATH 40015) Course is based on classical linear regression techniques with an emphasis on real data using the principles of sound data analysis. Close attention is given to issues of interpretation, diagnostics, outliers and influential points, goodness of fit and model selection. Topics include simple and multiple linear regression, transformation and modifications of covariates and responses, design matrices, variable selection and logistic regression.  
**Prerequisite:** Applied mathematics or pure mathematics major; and graduate standing.  
**Schedule Type:** Lecture  
**Contact Hours:** 3 lecture  
**Grade Mode:** Standard Letter

**MATH 50024 COMPUTATIONAL STATISTICS 3 Credit Hours**  
 (Slashed with MATH 40024) This course is about the use of computational tools to manage, explore, summarize, and visualize data, as well as the computational underpinnings of fitting statistical models. It uses mostly the statistical computation language R, but also other languages like Python and Matlab. It also covers: simulation and random number generation, computationally intensive methods like the bootstrap and permutation tests, Expectation-Maximization and related algorithms, and dimensionality reduction via matrix decomposition.  
**Prerequisite:** Applied mathematics or pure mathematics major; and graduate standing.  
**Schedule Type:** Lecture  
**Contact Hours:** 3 lecture  
**Grade Mode:** Standard Letter



**MATH 50028 STATISTICAL LEARNING 3 Credit Hours**

(Slashed with MATH 40028) This course is about the statistical foundations of modern machine learning techniques. The main focus is classification and prediction, using regression-based, tree-based, and kernel-based methods. Specific methods include logistic regression, classification and regression trees, random forests, and support vector machines. The course also includes an introduction to unsupervised and semi-supervised learning.

**Prerequisite:** MATH 40015 or 50015 and MATH 40024 or 50024; and applied mathematics or pure mathematics major; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MATH 50051 TOPICS IN PROBABILITY THEORY AND STOCHASTIC PROCESSES 3 Credit Hours**

(Slashed with MATH 40051) Topics from conditional expectations, Markov chains, Markov processes, Brownian Motion and Martingales and their applications to stochastic calculus.

**Prerequisite:** MATH 50011; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MATH 50055 ACTUARIAL MATHEMATICS I 4 Credit Hours**

(Slashed with MATH 40055) Topics from survival models, stochastic analysis of annuities and life insurance and casualty models.

**Prerequisite:** MATH 30055 and MATH 50011; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 4 lecture

**Grade Mode:** Standard Letter

**MATH 50056 ACTUARIAL MATHEMATICS II 4 Credit Hours**

(Slashed with MATH 40056) Benefit premiums, benefit reserves and their analysis; decrement models, joint survivorship, risk models.

**Prerequisite:** MATH 50055; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 4 lecture

**Grade Mode:** Standard Letter

**MATH 50059 STOCHASTIC ACTUARIAL MODELS 3 Credit Hours**

(Slashed with MATH 40059) Topics from investment risk, mean variance analysis, CAPM, financial derivatives, binomial pricing model, stochastic calculus, Black-Scholes pricing model, and Greeks.

**Prerequisite:** MATH 40011 or 50011 and Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MATH 51001 MODERN ALGEBRA I 3 Credit Hours**

(Slashed with MATH 41001) Basic properties of groups, subgroups, factor groups. Basic properties of rings, integral domains and homomorphisms.

**Prerequisite:** MATH 21001 and MATH 22005; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MATH 51002 MODERN ALGEBRA II 3 Credit Hours**

(Slashed with MATH 41002) A continuation of MATH 51001, emphasizing properties of rings, their ideals, polynomial ring extensions, fields, finite degree extensions, roots of polynomials, constructibility.

**Prerequisite:** MATH 41001 or MATH 51001; and applied mathematics or pure mathematics major; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MATH 51021 THEORY OF MATRICES 3 Credit Hours**

(Slashed with MATH 41021) A rigorous study of the topics introduced in matrix algebra. Topics included are: canonical forms of matrices, diagonalizability criteria.

**Prerequisite:** MATH 21001 and MATH 22005; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MATH 51038 INTERMEDIATE LOGIC 3 Credit Hours**

(Cross-listed with CS 41038 and PHIL 41038 and PHIL 51038) (Slashed with MATH 41038) A detailed, systematic study of symbolic logic for philosophy majors, mathematics majors, computer science majors, and anyone else interested in advanced study in logic. The aim of the course is twofold: first, to develop a facility in understanding and using symbolic logic for various purposes, and second, to understand and appreciate symbolic logic as an area of study in itself. Topics include the distinction between syntactic, object-level proofs and semantic, meta-level proofs, the distinction between axiomatic systems and natural deduction systems of object-level proofs, various systems of modal logic and some non-classical logics.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MATH 51045 METALOGIC 3 Credit Hours**

(Cross-listed with CS 41045 and CS 51045 and PHIL 41045 and PHIL 51045) (Slashed with MATH 41045) A detailed, systematic study of metalogic for philosophy majors, mathematics majors, computer science majors, and anyone else interested in advanced study in logic. Topics include the soundness and completeness of the propositional and predicate calculi, the decidability of propositional calculus, the undecidability of predicate calculus, Gödel's incompleteness proof for languages capable of expressing arithmetic, the co-extensionality of the set of general recursive functions, abacus computable functions, and Turing computable functions, and the philosophical motivations for the Church-Turing Thesis that all computable functions are Turing computable.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MATH 52001 ANALYSIS I 3 Credit Hours**

(Slashed with MATH 42001) Topics include basic structure of the real numbers, Cauchy sequences, convergence, completeness of the real numbers, continuity, differentiation and Riemann integration.

**Prerequisite:** Applied mathematics or pure mathematics major; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter



**MATH 52002 ANALYSIS II 3 Credit Hours**

(Slashed with MATH 42002) Topics include further development of integration theory infinite series, uniform convergence, several variable calculus and metric spaces.

**Prerequisite:** MATH 42001 or MATH 52001; and applied mathematics or pure mathematics major; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MATH 52011 MATHEMATICAL OPTIMIZATION 3 Credit Hours**

(Slashed with MATH 42011) Analytical and numerical techniques for location of extreme points of functions and calculus of variations. Both constrained and unconstrained problems are considered.

**Prerequisite:** MATH 21001 and MATH 22005; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MATH 52021 GRAPH THEORY AND COMBINATORICS 3 Credit Hours**

(MATH 42021) Fundamentals and applications of combinatorial mathematics. Topics include transversability, colorability, networks, inclusion and exclusion, matching and designs.

**Prerequisite:** MATH 12003 and MATH 21001; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MATH 52024 NUMBERS AND GAMES 3 Credit Hours**

(Slashed with MATH 42024) The study of partisan and impartial combinatorial games; games as numbers; Grundy-Sprague theory.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MATH 52031 MATHEMATICAL MODELS AND DYNAMICAL SYSTEMS 3 Credit Hours**

(Slashed with MATH 42031) Formulation and analysis of mathematical models for a variety of phenomena. Mathematical methods from optimization, dynamical systems and probability are developed and applied. Modern software tools are utilized.

**Prerequisite:** MATH 32044; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MATH 52039 MODELING PROJECTS 3 Credit Hours**

(Slashed with MATH 42039) Individual and small-group projects concerned with the formulation and analysis of mathematical models in a variety of areas. Written and oral reports required.

**Prerequisite:** MATH 52031 with a minimum C grade; and graduate standing.

**Schedule Type:** Seminar

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**MATH 52041 ADVANCED CALCULUS 3 Credit Hours**

(Slashed with MATH 42041) The calculus and applications of scalar and vector functions of several variables. Vector differential and integral calculus. Applications to field theories, electricity and magnetism and fluid flow.

**Prerequisite:** MATH 21001 and MATH 22005.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MATH 52045 PARTIAL DIFFERENTIAL EQUATIONS 3 Credit Hours**

(Slashed with MATH 42045) Introduction to Fourier series, Fourier transforms and partial differential equations. Wave, heat and potential equations of mathematical physics. Additional topics include Green's functions and the Method of Characteristics for wave equations.

**Prerequisite:** Applied mathematics or pure mathematics major; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MATH 52048 COMPLEX VARIABLES 3 Credit Hours**

(Slashed with MATH 42048) Algebra of complex numbers, analytic functions, mappings, Cauchy integral theory, residue theory and applications.

**Prerequisite:** Applied mathematics or pure mathematics major; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MATH 52201 NUMERICAL COMPUTING I 3 Credit Hours**

(Cross-listed with CS 42201 and CS 52201) (Slashed with MATH 42201) An introduction to numerical methods and software for solving many common scientific computing problems. Linear systems, least-square data fitting, nonlinear equations and systems and optimization problems.

**Prerequisite:** Applied mathematics or pure mathematics major; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MATH 52202 NUMERICAL COMPUTING II 3 Credit Hours**

(Cross-listed with CS 42202 and CS 52202) (Slashed with MATH 42202) A continuation of MATH 52201. Topics include interpolation, numerical differentiation and integration, and numerical solution of ordinary differential equations.

**Prerequisite:** MATH 42201 or 52201; and applied mathematics or pure mathematics major; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MATH 55011 DIFFERENTIAL GEOMETRY 3 Credit Hours**

(Slashed with MATH 45011) Analytic and metric differential geometry of curves and surfaces.

**Prerequisite:** MATH 22005; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MATH 55021 EUCLIDEAN GEOMETRY 3 Credit Hours**

(Slashed with MATH 45021) Geometry of Euclid extended to advanced topics of the triangle, quadrilaterals and circles: crossratio, groups, constructions, geometric generalizations; inversion.

**Prerequisite:** MATH 21001; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MATH 55022 LINEAR GEOMETRY 3 Credit Hours**

(Slashed with MATH 45022) Use of transformations as a tool to study geometry and to differentiate between different kinds of geometry. Linear algebra methods applied to geometry.

**Prerequisite:** MATH 21001; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MATH 56001 ELEMENTARY TOPOLOGY 3 Credit Hours**

(Slashed with MATH 46001) Metric spaces, introduction to topological spaces, separation axioms.

**Prerequisite:** MATH 22005; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MATH 57011 THEORY OF NUMBERS 3 Credit Hours**

(Slashed with MATH 47011) Divisibility properties of the integers, prime numbers, congruencies, quadratic reciprocity, Diophantine equations, number theoretic functions, simple continued fractions, rational approximations.

**Prerequisite:** MATH 12003; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MATH 57021 HISTORY OF MATHEMATICS 3 Credit Hours**

(Slashed with MATH 47021) Survey from Babylonian and Egyptian mathematics to 20th-century mathematics with emphasis on the development of algebra, geometry, calculus, number theory.

**Prerequisite:** One course MATH 23022 or higher; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MATH 57091 SELECTED TOPICS IN MATHEMATICS AND ITS APPLICATIONS 1-3 Credit Hours**

(Repeatable for credit) Various special courses will be announced in the schedule of classes under this course number with different section numbers.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Seminar

**Contact Hours:** 1-3 other

**Grade Mode:** Standard Letter

**MATH 59893 VARIABLE TITLE WORKSHOP IN MATHEMATICS 1-6 Credit Hours**

(Repeatable for credit) Studies in special topics in pure and applied mathematics.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Workshop

**Contact Hours:** 1-6 other

**Grade Mode:** Satisfactory/Unsatisfactory

**MATH 60051 PROBABILITY I 4 Credit Hours**

(Slashed with MATH 70051) Distribution functions, measure theory, random variables, expectation, independence, convergence, concepts, law of large numbers.

**Prerequisite:** MATH 40011 or MATH 42002 or MATH 50011 or MATH 52002; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 4 lecture

**Grade Mode:** Standard Letter

**MATH 60052 PROBABILITY II 3 Credit Hours**

(Slashed with MATH 70052) Characteristic functions, the central limit problem, conditional expectations, Martingale theory, Brownian motion.

**Prerequisite:** MATH 60051; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MATH 60061 MATHEMATICAL STATISTICS I 4 Credit Hours**

(Slashed with MATH 70061) Statistics, distributions of statistics. Sampling distributions. Decision spaces and loss functions. Sufficiency and completeness. Estimation theory. Rao Blackwell and the Cramer Rao theorems.

**Prerequisite:** MATH 42002 or MATH 52002; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 4 lecture

**Grade Mode:** Standard Letter

**MATH 60062 MATHEMATICAL STATISTICS II 3 Credit Hours**

(Slashed with MATH 70062) Tests of statistical hypothesis. Neyman Pearson Lemma. Exponential families and invariance. Sequential tests. Non-parametric procedures.

**Prerequisite:** MATH 60061; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MATH 60070 FINANCIAL MATHEMATICS 3 Credit Hours**

(Slashed with MATH 70070) Topics from replication of trading strategies, arbitrage, completeness, Martingale representation theorem, fundamental theorem of finance, stochastic differential equations, Black and Scholes formula of option pricing.

**Prerequisite:** MATH 50051; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MATH 60091 SEMINAR IN STATISTICS AND PROBABILITY 1-3 Credit Hours**

(Repeatable for credit) Seminar on current research in statistics and probability.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Seminar

**Contact Hours:** 1-3 other

**Grade Mode:** Standard Letter

**MATH 60093 VARIABLE TITLE WORKSHOP IN MATHEMATICS 1-3 Credit Hours**

(Repeatable for credit) Studies of special topics in mathematics. Not acceptable for credit toward a graduate degree in mathematics without approval of the student's adviser.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Workshop

**Contact Hours:** 1-3 other

**Grade Mode:** Satisfactory/Unsatisfactory

**MATH 60094 COLLEGE TEACHING OF MATHEMATICS 1 Credit Hour**

(Repeatable for credit) Techniques and problems in the teaching of college-level mathematics. Student presentations of mathematical papers and colloquia will be included.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 1 lecture

**Grade Mode:** Standard Letter

**MATH 61051 ABSTRACT ALGEBRA I 4 Credit Hours**

(Slashed with MATH 71051) Advanced topics in group theory including Sylow Theorems, finite Abelian groups, divisible groups and related concepts. Includes one hour problem session each week.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 4 lecture

**Grade Mode:** Standard Letter

**MATH 61052 ABSTRACT ALGEBRA II 3 Credit Hours**

(Slashed with MATH 71052) Advanced topics, commutative ring theory and field theory, including polynomial rings, unique factorization domains, matrix rings, Galois theory.

**Prerequisite:** MATH 61051; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MATH 61091 SEMINAR IN ALGEBRA 1-3 Credit Hours**

(Repeatable for credit) Seminar on current research in algebra.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Seminar

**Contact Hours:** 1-3 other

**Grade Mode:** Satisfactory/Unsatisfactory

**MATH 62041 METHODS OF APPLIED MATHEMATICS I 3 Credit Hours**

(Slashed with MATH 72041) Analysis and applications of ordinary and partial differential equations and related topics. Dimensional analysis (Buckingham Pi Theorem). Perturbation methods (singular perturbations, matched asymptotic expansions, WKB approximation). Variational methods (Euler-Lagrange equations).

**Prerequisite:** MATH 51021 and MATH 52041 and MATH 52045 and MATH 52048; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MATH 62042 METHODS OF APPLIED MATHEMATICS II 3 Credit Hours**

(Slashed with MATH 72042) Continuation of MATH 62041. Integral equations and Green's functions (Fredholm alternative, compact operators, distributions, weak solutions). Wave phenomena (dispersion, KdV equation). Stability and bifurcation (linearized stability analysis, turning points, Hopf bifurcation).

**Prerequisite:** MATH 62041; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MATH 62051 FUNCTIONS OF A REAL VARIABLE I 4 Credit Hours**

(Slashed with MATH 72051) Introduction to modern concepts of real analysis, including metric spaces, measure and integration theory.

**Prerequisite:** MATH 42002 or MATH 52002; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 4 lecture

**Grade Mode:** Standard Letter

**MATH 62052 FUNCTIONS OF A REAL VARIABLE II 3 Credit Hours**

(Slashed with MATH 72052) A continuation of MATH 62051. Included are basic topics in functional analysis and Hilbert space theory.

**Prerequisite:** MATH 62051; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MATH 62151 FUNCTIONS OF A COMPLEX VARIABLE I 4 Credit Hours**

(Slashed with MATH 72151) Topological properties of the complex plane; analytic, entire, meromorphic functions; analytic continuation; conformal mappings; Picard's Theorem; Riemann surfaces.

**Prerequisite:** MATH 52002; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 4 lecture

**Grade Mode:** Standard Letter

**MATH 62152 FUNCTIONS OF A COMPLEX VARIABLE II 3 Credit Hours**

(Slashed with MATH 72152) Topological properties of the complex plane; analytic, entire, meromorphic functions; analytic continuation; conformal mappings; Picard's Theorem; Riemann surfaces.

**Prerequisite:** MATH 62151; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MATH 62203 COMPUTATIONAL FINANCE 3 Credit Hours**

(Slashed with MATH 72203) Basic numerical methods, (numerical linear algebra, nonlinear equations, curve fitting, ODEs, integration, Monte-Carlo methods), numerical solution of PDEs (stability, convergence, Black-Scholes, American options, SDEs) probabilistic methods.

**Prerequisite:** MATH 22005 and MATH 21001 and MATH 32044; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MATH 62251 NUMERICAL ANALYSIS I 4 Credit Hours**

(Slashed with MATH 72251) Floating point computation, rounding error analysis, conditioning, interpolation (polynomial, trigonometric, spline). Numerical quadrature (Newton-Cotes, Gauss), extrapolation, Romberg integration.

**Prerequisite:** MATH 42002 or MATH 52002; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 4 lecture

**Grade Mode:** Standard Letter

**MATH 62252 NUMERICAL ANALYSIS II 3 Credit Hours**

(Slashed with MATH 72252) Numerical solution of linear systems of equations (LU factorization, error analysis). Least squares, orthogonalization methods. Algebraic eigenvalue problems, QR algorithm, singular value decomposition.

**Prerequisite:** MATH 41021 or MATH 51021; and MATH 62251 or MATH 72251; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MATH 62261 NUMERICAL SOLUTION OF ORDINARY DIFFERENTIAL EQUATIONS 3 Credit Hours**

(Slashed with MATH 72261) Discretization methods for ordinary differential equations and systems. Initial value and boundary value problems. Numerical implementation software and analysis.

**Prerequisite:** MATH 32044; and MATH 42202 or MATH 52202; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MATH 62262 NUMERICAL SOLUTION OF PARTIAL DIFFERENTIAL EQUATIONS 3 Credit Hours**

(Slashed with MATH 72262) Derivation and analysis of discrete methods (finite differences, finite elements) for the numerical solution of elliptic, hyperbolic and parabolic partial differential equations.

**Prerequisite:** MATH 42045 or MATH 52045; and MATH 42202 or MATH 52202; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MATH 62263 NUMERICAL SOLUTION OF LARGE SPARSE LINEAR SYSTEMS 3 Credit Hours**

(Slashed with MATH 72263) (Cross-listed with CS 62263 and CS 72263) Construction and analysis of iterative methods for large systems of linear algebraic equations. Jacobi, Gauss-Seidel, SOR. Polynomial acceleration methods, conjugate gradients. Multi-grid methods.

**Prerequisite:** MATH 41021 or MATH 51021; and MATH 42202 or MATH 52202; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MATH 62264 NUMERICAL SOLUTION OF NONLINEAR SYSTEMS 3 Credit Hours**

(Cross-listed with CS 62264 and CS 72264) (Slashed with MATH 72264) Construction and analysis of numerical methods for systems of nonlinear algebraic equations and optimization problems. Numerical implementation and software.

**Prerequisite:** MATH 42041 or MATH 52041; and MATH 42202 or MATH 52202; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MATH 62291 SEMINAR IN NUMERICAL ANALYSIS 1-3 Credit Hours**

(Repeatable for credit) Seminar on current research in numerical analysis.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Seminar

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**MATH 62391 SEMINAR IN MEASURE THEORY 1-3 Credit Hours**

(Repeatable for credit) Seminar on current research in measure theory.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Seminar

**Contact Hours:** 1-3 other

**Grade Mode:** Standard Letter

**MATH 62491 SEMINAR IN NONLINEAR ANALYSIS 1-3 Credit Hours**

(Repeatable for credit) Seminar on current research in nonlinear analysis.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Seminar

**Contact Hours:** 1-3 other

**Grade Mode:** Standard Letter

**MATH 64091 SEMINAR IN MATHEMATICS EDUCATION 3 Credit Hours**

(Repeatable for credit) Studies in geometry, algebra, mathematics for junior and senior high school. Mathematics content professionalized for teachers.

**Prerequisite:** MATH 34001; and graduate standing.

**Schedule Type:** Seminar

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**MATH 66051 INTRODUCTION TO TOPOLOGY I 4 Credit Hours**

(Slashed with MATH 76051) Set theory, topological spaces, continuity, product spaces, quotient spaces, separation axioms, compactness and metrizable.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MATH 66052 INTRODUCTION TO TOPOLOGY II 3 Credit Hours**

(Slashed with MATH 76052) Geometric topology, including connectedness, continua, homotopy, the plane and 2 manifolds.

**Prerequisite:** MATH 76051; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MATH 67091 SEMINAR IN NUMBER THEORY 1-3 Credit Hours**

(Repeatable for credit) (Slashed with MATH 77091) Seminar on current research in number theory.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Seminar

**Contact Hours:** 1-3 other

**Grade Mode:** Standard Letter

**MATH 67098 RESEARCH 1-15 Credit Hours**

(Repeatable for credit) Research or individual investigation. Credits are applied toward degree requirements with approval if letter grade of 'S' is given.

**Prerequisite:** Graduate standing.

**Schedule Type:** Research

**Contact Hours:** 1-15 other

**Grade Mode:** Standard Letter

**MATH 67199 THESIS I 2-6 Credit Hours**

Thesis student must register for a total of 6 hours, 2 to 6 hours in a single semester distributed over several semesters if desired.

**Prerequisite:** Graduate standing.

**Schedule Type:** Masters Thesis

**Contact Hours:** 2-6 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP



**MATH 67299 THESIS II 2 Credit Hours**

Thesis students must continue registration each semester until all degree requirements are met.

**Prerequisite:** MATH 67199; and graduate standing.

**Schedule Type:** Masters Thesis

**Contact Hours:** 2 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**MATH 70051 PROBABILITY I 4 Credit Hours**

(Slashed with MATH 60051) Distribution functions, measure theory, random variables, expectation, independence, convergence, concepts, law of large numbers.

**Prerequisite:** MATH 40011 or MATH 50011; or MATH 42002 or MATH 52002; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 4 lecture

**Grade Mode:** Standard Letter

**MATH 70052 PROBABILITY II 3 Credit Hours**

(Slashed with MATH 60052) Characteristic functions, the central limit problem, conditional expectations, Martingale theory, Brownian motion.

**Prerequisite:** MATH 60051 or MATH 70051; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MATH 70061 MATHEMATICAL STATISTICS I 4 Credit Hours**

(Slashed with MATH 60061) Statistics, distributions of statistics. Sampling distributions. Decision spaces and loss functions. Sufficiency and completeness. Estimation theory. Rao Blackwell and the Cramer Rao theorems.

**Prerequisite:** MATH 42002 or MATH 52002.

**Schedule Type:** Lecture

**Contact Hours:** 4 lecture

**Grade Mode:** Standard Letter

**MATH 70062 MATHEMATICAL STATISTICS II 3 Credit Hours**

(Slashed with MATH 60062) Tests of statistical hypothesis. Neyman Pearson Lemma. Exponential families and invariance. Sequential tests. Non parametric procedures.

**Prerequisite:** MATH 60061 or MATH 70061; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MATH 70070 FINANCIAL MATHEMATICS 3 Credit Hours**

(Slashed with MATH 60070) Topics from replication of trading strategies, arbitrage completeness, Martingale presentation theorem, fundamental theorem of finance, stochastic differential equations, Black and Scholes formula of option pricing.

**Prerequisite:** MATH 50051; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MATH 70091 SEMINAR IN STATISTICS AND PROBABILITY 1-3 Credit Hours**

(Repeatable for credit) Seminar on current research in statistics and probability.

**Prerequisite:** Doctoral standing; and special approval.

**Schedule Type:** Seminar

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**MATH 70094 COLLEGE TEACHING OF MATHEMATICS 1 Credit Hour**

(Repeatable for credit) Techniques and problems in the teaching of college-level mathematics. Student presentations of mathematical papers and colloquia will be included.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 1 lecture

**Grade Mode:** Standard Letter

**MATH 70095 SELECTED TOPICS IN STATISTICS AND PROBABILITY 1-3 Credit Hours**

(Repeatable for credit) Topics vary with each offering and complement topics covered in MATH 70051, MATH 70052, MATH 70061 and MATH 70062.

**Prerequisite:** Doctoral standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 1-3 lecture

**Grade Mode:** Standard Letter

**MATH 71001 STRUCTURE OF RINGS AND ALGEBRAS I 3 Credit Hours**

Advanced topics in ring theory, including Artinian rings, Noetherian rings, advanced commutative ring theory.

**Prerequisite:** Doctoral standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MATH 71002 STRUCTURE OF RINGS AND ALGEBRAS II 3 Credit Hours**

Advanced topics in ring theory including an introduction to homological algebra. Includes Dedekind domains, regular rings, torsion theory.

**Prerequisite:** MATH 71001; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MATH 71011 ADVANCED GROUP THEORY 3 Credit Hours**

Advanced topics in group theory. Topics include permutation arguments, coprime actions, transfer theorems, nonsimplicity criteria. Properties of families of groups: solvable,  $p$  solvable, nilpotent,  $p$  groups.

**Prerequisite:** MATH 61051 or MATH 71051; and MATH 61052 or MATH 71052; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MATH 71012 CHARACTERS OF FINITE GROUPS 3 Credit Hours**

Development of characters of finite groups, their properties, orthogonality relations, integrality conditions. Applications include Burnside's  $p$ - $q$  theorem and existence of Frobenius kernels in Frobenius groups.

**Prerequisite:** MATH 61051 or MATH 71051; and MATH 61052 or MATH 71052; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MATH 71051 ABSTRACT ALGEBRA I 4 Credit Hours**

(Slashed with MATH 61051) Advanced topics in group theory, including Sylow theorems, finite Abelian groups, divisible groups and related concepts. Includes one-hour problem session each week.

**Prerequisite:** Doctoral standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 4 lecture

**Grade Mode:** Standard Letter



**MATH 71052 ABSTRACT ALGEBRA II 3 Credit Hours**

(Slashed with MATH 61052) Advanced topics, commutative ring theory and field theory, including polynomial rings, unique factorization, domains, matrix rings, Galois theory.

**Prerequisite:** MATH 61051 or MATH 71051; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MATH 71091 SEMINAR IN ALGEBRA 1-3 Credit Hours**

(Repeatable for credit) (Slashed with MATH 61091) Seminar on current research in algebra.

**Prerequisite:** Doctoral standing; and special approval.

**Schedule Type:** Seminar

**Contact Hours:** 1-3 other

**Grade Mode:** Satisfactory/Unsatisfactory

**MATH 71095 SELECTED TOPICS IN ALGEBRA 1-3 Credit Hours**

(Repeatable for credit) Topics vary with each offering and complement topics covered in MATH 71002, MATH 71051 and MATH 71052.

**Prerequisite:** Doctoral standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 1-3 lecture

**Grade Mode:** Standard Letter

**MATH 72001 FUNCTIONAL ANALYSIS I 3 Credit Hours**

A study of principles of linear analysis in the setting of normed linear spaces and topological vector spaces.

**Prerequisite:** MATH 72052; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MATH 72002 FUNCTIONAL ANALYSIS II 3 Credit Hours**

A study of principles of linear analysis in the setting of normed linear spaces and topological vector spaces.

**Prerequisite:** MATH 72001; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MATH 72041 METHODS OF APPLIED MATHEMATICS I 3 Credit Hours**

(Slashed with MATH 62041) Analysis and applications of ordinary and partial differential equations and related topics. Dimensional analysis (Buckingham Pi Theorem). Perturbation methods (singular perturbations, matched asymptotic expansions, WKB approximation). Variational methods (Euler-Lagrange equations).

**Prerequisite:** MATH 51021 and MATH 52041 and MATH 52045 and MATH 52048; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MATH 72042 METHODS OF APPLIED MATHEMATICS II 3 Credit Hours**

(Slashed with MATH 62042) Continuation of MATH 72041. Integral equations and Green's functions (Fredholm alternative, compact operators, distributions, weak solutions). Wave phenomena (dispersion, KdV equation). Stability and bifurcation (linearized stability analysis, turning points, Hopf bifurcation).

**Prerequisite:** MATH 62041 or MATH 72041; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MATH 72051 FUNCTIONS OF A REAL VARIABLE I 4 Credit Hours**

(Slashed with MATH 62051) Introduction to modern concepts of real analysis including metric spaces, measure and integration theory.

**Prerequisite:** MATH 42002 or MATH 52002; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 4 lecture

**Grade Mode:** Standard Letter

**MATH 72052 FUNCTIONS OF A REAL VARIABLE II 3 Credit Hours**

(Slashed with MATH 62052). A continuation of MATH 72051. Included are basic topics in functional analysis and Hilbert space theory.

**Prerequisite:** MATH 62051 or MATH 72051; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MATH 72095 SELECTED TOPICS IN REAL ANALYSIS 1-3 Credit Hours**

(Repeatable for credit) Topics vary with each offering and complement topics covered in MATH 72002, MATH 72051 and MATH 72052.

**Prerequisite:** Doctoral standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 1-3 lecture

**Grade Mode:** Standard Letter

**MATH 72151 FUNCTIONS OF A COMPLEX VARIABLE I 4 Credit Hours**

(Slashed with MATH 62151) Topological properties of the complex plane; analytic, entire, meromorphic functions; analytic continuation; conformal mappings; Picard's Theorem; Riemann surfaces.

**Prerequisite:** MATH 52002; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 4 lecture

**Grade Mode:** Standard Letter

**MATH 72152 FUNCTIONS OF A COMPLEX VARIABLE II 3 Credit Hours**

(Slashed with MATH 62152) Topological properties of the complex plane; analytic, entire, meromorphic functions; analytic continuation; conformal mappings; Picard's theorem; Riemann surfaces.

**Prerequisite:** MATH 72151; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MATH 72195 SELECTED TOPICS IN COMPLEX ANALYSIS 1-3 Credit Hours**

(Repeatable for credit) Topics vary with each offering and complement topics covered in MATH 72151 and MATH 72152.

**Prerequisite:** Doctoral standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 1-3 lecture

**Grade Mode:** Standard Letter

**MATH 72203 COMPUTATIONAL FINANCE 3 Credit Hours**

(Slashed with MATH 62203) Basic numerical methods, (numerical linear algebra, nonlinear equations, curve fitting, ODEs, integration, Monte-Carlo methods) numerical solution of PDEs (stability, convergence, Black-Scholes, American options, SDEs) probabilistic methods.

**Prerequisite:** MATH 22005 and MATH 21001 and MATH 32044; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MATH 72251 NUMERICAL ANALYSIS I 4 Credit Hours**

(Slashed with MATH 62251) Floating point computation, rounding error analysis, conditioning, interpolation (polynomial, trigonometric spline). Numerical quadrature (Newton-Cotes, Gauss), extrapolation, Romberg integration.

**Prerequisite:** MATH 42002 or MATH 52002; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 4 lecture

**Grade Mode:** Standard Letter

**MATH 72252 NUMERICAL ANALYSIS II 3 Credit Hours**

(Slashed with MATH 62252) Numerical solution of linear systems of equations (LU factorization, error analysis). Least squares, orthogonalization methods. Algebraic eigenvalue problems, QR algorithm, singular value decomposition.

**Prerequisite:** MATH 41021 or MATH 51021; and MATH 62251 or MATH 72251; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MATH 72261 NUMERICAL SOLUTION OF ORDINARY DIFFERENTIAL EQUATIONS 3 Credit Hours**

(Slashed with MATH 62261) Discretization methods for ordinary differential equations and systems. Initial value and boundary value problems. Numerical implementation software and analysis.

**Prerequisite:** MATH 32044; and MATH 42202 or MATH 52202; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MATH 72262 NUMERICAL SOLUTION OF PARTIAL DIFFERENTIAL EQUATIONS 3 Credit Hours**

(Slashed with MATH 62262) Derivation and analysis of discrete methods (finite differences, finite elements) for the numerical solution of elliptic, hyperbolic and parabolic partial differential equations.

**Prerequisite:** MATH 42045 or MATH 52045; and MATH 42202 or MATH 52202; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MATH 72263 NUMERICAL SOLUTION OF LARGE SPARSE LINEAR SYSTEMS 3 Credit Hours**

(Slashed with MATH 62263) (Cross-listed with CS 62263 and CS 72263) Construction and analysis of iterative methods for large systems of linear algebraic equations. Jacobi, Gauss-Seidel, SOR. Polynomial acceleration methods, conjugate gradients. Multi-grid methods.

**Prerequisite:** MATH 41021 or MATH 51021; and MATH 42202 or MATH 52202; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MATH 72264 NUMERICAL SOLUTION OF NONLINEAR SYSTEMS 3 Credit Hours**

(Slashed with MATH 62264) (Cross-listed with CS 62264 and CS 72264) Construction and analysis of numerical methods for systems of nonlinear algebraic equations and optimization problems. Numerical implementation and software.

**Prerequisite:** MATH 42041 or MATH 52041; and MATH 42202 or MATH 52202; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MATH 72291 SEMINAR IN NUMERICAL ANALYSIS 1-3 Credit Hours**

(Repeatable for credit) Seminar on current research in numerical analysis.

**Prerequisite:** Doctoral standing; and special approval.

**Schedule Type:** Seminar

**Contact Hours:** 1-3 other

**Grade Mode:** Standard Letter

**MATH 72295 SELECTED TOPICS IN NUMERICAL ANALYSIS 1-3 Credit Hours**

(Repeatable for credit) Topics vary with each offering and complement

topics covered in MATH 72251 and MATH 72252.

**Prerequisite:** Doctoral standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 1-3 lecture

**Grade Mode:** Standard Letter

**MATH 72391 SEMINAR IN MEASURE THEORY 1-3 Credit Hours**

(Repeatable for credit) Seminar on current research in measure theory.

**Prerequisite:** Doctoral standing; and special approval.

**Schedule Type:** Seminar

**Contact Hours:** 1-3 other

**Grade Mode:** Standard Letter

**MATH 72491 SEMINAR IN NONLINEAR ANALYSIS 1-3 Credit Hours**

(Repeatable for credit) Seminar on current research in nonlinear analysis.

**Prerequisite:** Doctoral standing; and special approval.

**Schedule Type:** Seminar

**Contact Hours:** 1-3 other

**Grade Mode:** Standard Letter

**MATH 76051 INTRODUCTION TO TOPOLOGY I 4 Credit Hours**

(Slashed with MATH 66051) Set theory, topological spaces, continuity, product spaces, quotient spaces separation axioms, compactness and metrizability.

**Prerequisite:** Doctoral standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 4 lecture

**Grade Mode:** Standard Letter

**MATH 76052 INTRODUCTION TO TOPOLOGY II 3 Credit Hours**

Geometric topology, including connectedness, continua, homotopy, the plane and 2 manifolds.

**Prerequisite:** MATH 66051 or MATH 76051; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MATH 76095 SELECTED TOPICS IN TOPOLOGY 1-3 Credit Hours**

(Repeatable for credit) Topics vary with each offering and complement

topics covered in MATH 76051 and MATH 76052.

**Prerequisite:** Doctoral standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 1-3 lecture

**Grade Mode:** Standard Letter

**MATH 77011 ALGEBRAIC NUMBER THEORY 3 Credit Hours**

Number fields and Dedekind domains; conjugates, norm and trace, discriminant, integral bases; arithmetic or quadratic and cyclotomic number fields; theory of ideals and class group; Dirichlet's theorem on units.

**Prerequisite:** MATH 57011; and MATH 61052 or MATH 71052; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MATH 77012 ANALYTIC NUMBER THEORY 3 Credit Hours**

Multiplicative functions and summatory functions, Riemann's Zeta function and the prime number theorem, L-functions and Dirichlet's theorem on primes in arithmetic progressions, asymptotic formula for partitions.

**Prerequisite:** MATH 57011 and MATH 62151 or MATH 72151.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MATH 77091 SEMINAR IN NUMBER THEORY 1-3 Credit Hours**

(Repeatable for credit) (Slashed with MATH 67091) Seminar on current research in number theory.

**Prerequisite:** Doctoral standing; and special approval.

**Schedule Type:** Seminar

**Contact Hours:** 1-3 other

**Grade Mode:** Standard Letter

**MATH 77095 SELECTED TOPICS IN MATHEMATICS 1-3 Credit Hours**

(Repeatable for credit) Course topic varies with each offering.

**Prerequisite:** Special approval.

**Schedule Type:** Lecture

**Contact Hours:** 1-3 lecture

**Grade Mode:** Standard Letter

**MATH 77098 RESEARCH I 1-15 Credit Hours**

(Repeatable for credit) Research or individual investigation. Credits are applied toward degree requirements with approval if letter grade of 'S' is given.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Research

**Contact Hours:** 1-15 other

**Grade Mode:** Standard Letter

**MATH 77195 SELECTED TOPICS IN NUMBER THEORY 1-3 Credit Hours**

(Repeatable for credit) Content varies with each offering and complements topics covered in MATH 77011 and MATH 77012.

**Prerequisite:** Doctoral standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 1-3 lecture

**Grade Mode:** Standard Letter

**MATH 77198 RESEARCH II 1-15 Credit Hours**

(Repeatable for credit) Research or individual investigation. Credits are applied toward degree requirements with approval if letter grade of 'S' is given.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Research

**Contact Hours:** 1-15 other

**Grade Mode:** Satisfactory/Unsatisfactory

**MATH 87098 RESEARCH 1-15 Credit Hours**

(Repeatable for credit) Research or individual investigation for doctoral students who have not yet passed their candidacy examinations. Credits earned may be applied toward degree if department approves.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Research

**Contact Hours:** 1-15 other

**Grade Mode:** Standard Letter

**MATH 87199 DISSERTATION I 15 Credit Hours**

(Repeatable for credit) Doctoral dissertation, for which registration in at least two semesters is required first of which will be semester in which dissertation work is begun and continuing until the completion of 30 hours.

**Prerequisite:** Admission to doctoral candidacy; and doctoral standing.

**Schedule Type:** Dissertation

**Contact Hours:** 15 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**MATH 87299 DISSERTATION II 15 Credit Hours**

(Repeatable for credit) Continuing registration required of doctoral students who have completed the initial 30 hours of dissertation and continuing until all degree requirements are met.

**Prerequisite:** MATH 87199; and doctoral standing.

**Schedule Type:** Dissertation

**Contact Hours:** 15 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

## Department of Modern and Classical Language Studies

### American Sign Language (ASL)

**ASL 19201 ELEMENTARY AMERICAN SIGN LANGUAGE I 4 Credit Hours**

Introduction to American Sign Language and the culture of the American signing community, in an immersion setting.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 4 lecture

**Grade Mode:** Standard Letter

**Attributes:** TAG Foreign Language

**ASL 19202 ELEMENTARY AMERICAN SIGN LANGUAGE II 4 Credit Hours**

A continuation of the introduction to American Sign Language and the culture of the American signing community, in an immersion setting.

**Prerequisite:** ASL 19201.

**Schedule Type:** Lecture

**Contact Hours:** 4 lecture

**Grade Mode:** Standard Letter

**ASL 19401 EXPLORATION OF DEAF CULTURE 3 Credit Hours**

Introduction to the American Deaf Community and its culture. Topics include myths and facts about deafness, cultural norms, basic history of American Sign Language, issues of language and cultural oppression, history of education of deaf and hard-of-hearing individuals, legal rights and advocacy.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ASL 29201 INTERMEDIATE AMERICAN SIGN LANGUAGE I 3 Credit Hours**

Continued development of receptive and expressive skills in American Sign Language and an introduction to ASL grammar, using a bilingual-bicultural approach and interaction with deaf organizations.

**Prerequisite:** ASL 19202.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ASL 29202 INTERMEDIATE AMERICAN SIGN LANGUAGE II 3 Credit Hours**

Continuation of ASL 29201 with an emphasis on greater exploration of American Sign Language sentence structure using a bilingual-bicultural approach. Students are involved in a community service project, providing a hands-on experience with using ASL within a community setting.

**Prerequisite:** ASL 29201.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ASL 29212 APPLIED AMERICAN SIGN LANGUAGE GRAMMAR 3 Credit Hours**

Provides students with intensive instruction and practice in grammar to help intermediate students express complex ideas using American Sign Language.

**Prerequisite:** ASL 19202.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ASL 29213 FINGERSPELLING, NUMBERS AND DEPICTION 3 Credit Hours**

Provides intermediate students with intensive instruction and practice in technical aspects of American Sign Language, including fingerspelling, numbers, and depiction, and provides opportunities for students to incorporate these skills in spontaneous conversations.

**Prerequisite:** ASL 19202.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ASL 39095 SPECIAL TOPICS IN AMERICAN SIGN LANGUAGE 1-3 Credit Hours**

(Repeatable for credit for maximum 9 hours) Special topics course in American Sign Language, the topic of which varies. Precise titles and descriptions appear in the schedule of classes.

**Prerequisite:** Special approval.

**Schedule Type:** Lecture

**Contact Hours:** 1-3 lecture

**Grade Mode:** Standard Letter

**ASL 39201 ADVANCED AMERICAN SIGN LANGUAGE I 3 Credit Hours**

Students enhance receptive and expressive proficiency in an immersion setting through the use of both planned and impromptu in-class discussion of current and historic events and involvement in a community service project. Students are advised to begin planning this activity early in the semester. Successful completion of ASL 29201 portfolio review required prior to registration.

**Prerequisite:** ASL 29202 .

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ASL 39202 ADVANCED AMERICAN SIGN LANGUAGE II 3 Credit Hours**

Students continue to increase their receptive and expressive proficiency in American Sign Language in an immersion setting, through in-class formal and informal presentations, discussions of current and historical events, and working in groups to complete a semester project and a community service project.

**Prerequisite:** ASL 39201.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ASL 39223 SOCIOLINGUISTICS OF THE DEAF COMMUNITY (WIC) 3 Credit Hours**

Provides an introduction to the sociolinguistics of American Sign Language (ASL) and the Deaf Community: A study of ASL within a social context. Topics include: multilingualism, variation (related to region, ethnicity, class and age), bilingualism and language contact, language policy and planning and language attitudes. This course is taught in English. Knowledge of ASL is helpful but not necessary.

**Prerequisite:** Junior standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Writing Intensive Course

**ASL 49091 SEMINAR IN AMERICAN SIGN LANGUAGE LINGUISTICS 3 Credit Hours**

(Repeatable twice for credit) Provides an in-depth treatment of an American Sign Language linguistics-related topic.

**Prerequisite:** Minimum C grade in ASL 49108; and special approval.

**Schedule Type:** Seminar

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ASL 49092 PRACTICUM IN AMERICAN SIGN LANGUAGE (ELR) 1-3 Credit Hours**

In consultation with the ASL program coordinator, ASL students design a practicum experience related to signed languages and their communities. Successful presentation of cumulative portfolio required prior to registration.

**Prerequisite:** ASL 29202.

**Schedule Type:** Practical Experience

**Contact Hours:** 3 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**Attributes:** Experiential Learning Requirement

**ASL 49096 INDIVIDUAL INVESTIGATION 2,3 Credit Hours**

(Repeatable for credit) (Cross-listed with SPED 43996) Individual investigation of problems in American Sign Language, ASL pedagogy and or deaf culture.

**Prerequisite:** Departmental permission.

**Schedule Type:** Individual Investigation

**Contact Hours:** 2-3 other

**Grade Mode:** Standard Letter-IP



**ASL 49108 AMERICAN SIGN LANGUAGE LINGUISTICS I 3 Credit Hours**

(Cross-listed with SPED 43108/53108) Lecture, discussion and application course designed to introduce students to basic linguistic terminology and concepts, as applied to American Sign Language (ASL) and taught using a bilingual-bicultural approach. Both ASL and English are used in the instruction of this class. Successful presentation of cumulative portfolio is required prior to registration in this course.

**Prerequisite:** ASL 29202.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ASL 49109 AMERICAN SIGN LANGUAGE LINGUISTICS II 3 Credit Hours**

Through lecture, in-class and out-of-class activities, and in-class presentations, students discuss, use, and respond to varied sentence structures and types of discourse in ASL, and compare these to English. Class is predominantly taught in ASL, but may at times use a bilingual approach.

**Prerequisite:** ASL 49108; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ASL 49201 ADVANCED PROFICIENCY 3 Credit Hours**

Students improve knowledge and use of American Sign Language and experiential knowledge of ASL culture through development, production, critique, revision and evaluation of an extended ASL presentation. This is an immersion class; voicing will not be used.

**Prerequisite:** ASL 39202; and score of intermediate level on the Signing Competency Proficiency Interview.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ASL 49309 INTRODUCTION TO DEAF STUDIES (ELR) (WIC) 3 Credit Hours**

Survey course designed to provide informational base and understanding of the unique experiences of Deaf people as a cultural minority. Course includes a discussion of: the history of deaf education, etiology and prevalence data, service delivery systems, the process of diagnosis and discovery of hearing loss, issues associated with assessment, and the various communication systems used by deaf individuals. Specifically, topics discussed will include historical, medical, and cultural perspectives regarding the interactions between Deaf and hearing cultural groups and the resulting impact on social, academic-educational, and vocational experiences of deaf children, adults, and their families.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Experiential Learning Requirement, Writing Intensive Course

**ASL 49350 AMERICAN SIGN LANGUAGE LITERATURE 3 Credit Hours**

Through the use of multimedia resources, student explore the evolution of deaf literature, its historical context and multiple perspectives, and the techniques specific to ASL which make it unique. Conducted primarily in ASL, with some voicing and printed English.

**Prerequisite:** ASL 39201 and 49309; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ASL 49401 DEAF CULTURE AND COMMUNITY 3 Credit Hours**

(Slashed with SPED 53101) Students explore the different voices and perspectives which have been, and are, present within the deaf community, issues of controversy, myths and data, using a mix of ASL and English materials and discussion. Successful presentation of cumulative portfolio required prior to registration.

**Prerequisite:** ASL 29202 and 49309; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ASL 49601 ACTIVITY DESIGN, IMPLEMENTATION AND EVALUATION 3 Credit Hours**

Student improve receptive and expressive skills and develop ability to analyze and break down specific ASL skills into more basic components; voicing is not used. In addition to classroom time, a minimum of 90 minutes per week working in the KSU ASL lab and/or (with permission) off-campus site.

**Prerequisite:** ASL 39202; and passage of the Signing Competency Proficiency Interview at an intermediate level.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Arabic (ARAB)****ARAB 11101 ELEMENTARY ARABIC I 4 Credit Hours**

Students develop ability to communicate on familiar topics in culturally appropriate ways using Modern Standard Arabic and colloquialisms of at least one dialect. They learn grammatical structures and vocabulary to enable them to function in the Novice range and develop a few abilities in the Intermediate range.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 4 lecture

**Grade Mode:** Standard Letter

**ARAB 11102 ELEMENTARY ARABIC II 4 Credit Hours**

Students develop ability to communicate on familiar topics in culturally appropriate ways using Modern Standard Arabic and colloquialisms of at least one dialect. They learn grammatical structures and vocabulary to enable them to function near the Intermediate range level.

**Prerequisite:** ARAB 11101.

**Schedule Type:** Lecture

**Contact Hours:** 4 lecture

**Grade Mode:** Standard Letter

**ARAB 21201 INTERMEDIATE ARABIC I 3 Credit Hours**

Development of speaking, listening, reading and writing skills. Students accomplish real-world communicative tasks in culturally appropriate ways using Modern Standard Arabic and colloquialisms of at least one dialect. Students gain increased familiarity with products, practices, and perspectives of target culture(s). They learn grammatical structures and vocabulary to enable them to function near the Intermediate range level in a number of areas.

**Prerequisite:** ARAB 11102.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter



**ARAB 21202 INTERMEDIATE ARABIC II 3 Credit Hours**

Development of speaking, listening, reading and writing skills. Students accomplish real-world communicative tasks in culturally appropriate ways using Modern Standard Arabic and colloquialisms of at least one dialect. They learn additional grammatical structures and vocabulary to enable them to function consistently in the Intermediate range with emergent abilities in the Advanced level.

**Prerequisite:** ARAB 21201.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ARAB 30095 SPECIAL TOPICS IN ARABIC CULTURE AND LANGUAGE 3 Credit Hours**

(Repeatable for a maximum of 9 credit hours) Topics in Arabic civilization, culture or language.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ARAB 31301 ADVANCED INTERMEDIATE ARABIC I 3 Credit Hours**

Continuation of the study of Modern Standard Arabic and colloquial Arabic in the context of Arab cultures. Further development of listening, speaking, reading and writing skills, using a variety of cultural materials.

**Prerequisite:** ARAB 21202.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ARAB 31302 ADVANCED INTERMEDIATE ARABIC II 3 Credit Hours**

Developing skills of reading, writing, speaking and understanding, this course enhances students' ability to express simple and compound sentences related to everyday activities; examine differences between present, past and future tenses; write assignments using a variety of writing techniques, i.e., describing geographical places, narrating an event, arguing against or for something, and reflecting on news reports; improve students understanding of the world around them using authentic materials on a variety of topics in Modern Standard Arabic; practice the use of grammatical structures and build new vocabulary related to Arab culture and social life in an attempt to improve students' ability to understand texts and express their ideas at an advanced level.

**Prerequisite:** ARAB 31301.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ARAB 37231 TRANSLATION PRACTICE: ARABIC 1 Credit Hour**

Translation practice with Arabic texts using principles and techniques learned in the lecture class.

**Prerequisite:** ARAB 21202.

**Corequisite:** TRST 30230.

**Schedule Type:** Lecture

**Contact Hours:** 1 lecture

**Grade Mode:** Standard Letter

**ARAB 37240 CONVERSATION FOR BUSINESS AND SPECIAL****PURPOSES: ARABIC 3 Credit Hours**

Introduction to the special vocabulary of business and other special subject areas; introduces the concept of language for special purposes and emphasizes the use of special vocabulary in conversations in business and other settings.

**Prerequisite:** ARAB 31301.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ARAB 41096 INDIVIDUAL INVESTIGATION 1-3 Credit Hours**

(Repeatable for a total of 6 credit hours) Individual study supervised by a faculty member on an approved topic dealing with Arabic language and/or culture.

**Prerequisite:** ARAB 21201.

**Schedule Type:** Individual Investigation

**Contact Hours:** 1-3 other

**Grade Mode:** Standard Letter-IP

**ARAB 41201 ADVANCED ARABIC I 3 Credit Hours**

Continuation of ARAB 31302. Emphasis is on building active vocabulary for comprehension, reading authentic texts, writing of connected discourse and the development of higher levels of conversational proficiency.

**Prerequisite:** ARAB 31302; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ARAB 41202 ADVANCED ARABIC II 3 Credit Hours**

Enhancing students' ability to speak, understand and write analytically; refining students' ability to use conjunctives and logical connectives at a higher level; understanding stylistic features such as tone, register, figures of speech (i.e., irony, metaphor, simile, alliteration, etc), phrase, clause, sentence and idiomatic structures; enhancing students' ability to use appropriate techniques in descriptive, argumentative, expository writing.

**Prerequisite:** ARAB 41201; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ARAB 41301 ARABIC CULTURE 3 Credit Hours**

Survey of the Arab world covering its geographical, ethnic, religious, and linguistic diversity and the roots of its current socio-cultural context.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ARAB 41302 BUSINESS ARABIC 3 Credit Hours**

Study of the business protocol, language functions, texts and vocabulary associate with travel and business in the Arabic-speaking world.

**Prerequisite:** ARAB 31302.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ARAB 47230 ADVANCED TRANSLATION PRACTICE: ARABIC 3 Credit Hours**

Theory and practice course that discusses translation theory and emphasizes Arabic-English translation of selected texts in business, technology, medicine and law.

**Prerequisite:** ARAB 37231.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ARAB 47240 BUSINESS AND SPECIAL TEXTS:ARABIC 3 Credit Hours**

Introduction to the special vocabulary of business and other special subject areas. Introduces the concept of language for special purposes and emphasizes the use of special vocabulary in business and other settings.

**Prerequisite:** ARAB 37240.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ARAB 67010 PRACTICE OF ARABIC TRANSLATION 2 Credit Hours**

Introductory course in which students translate a variety of non-specialized, non-fiction short texts in different domains, identify the most common semantic, syntactic, stylistic, cultural and discourse-level problems encountered in translation, and apply appropriate cognitive strategies.

**Prerequisite:** Graduate standing.

**Pre/corequisite:** TRST 60010.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**ARAB 67098 RESEARCH 1-15 Credit Hours**

Research or individual investigation for students to pursue an area of interest, with the guidance of a Kent State faculty member. Credit earned may be applied towards degree requirements with department approval.

**Prerequisite:** Graduate standing.

**Schedule Type:** Research

**Contact Hours:** 1-15 other

**Grade Mode:** Standard Letter

**ARAB 67240 LITERARY AND CULTURAL TRANSLATION 3 Credit Hours**

Translation of documents from a variety of literary and cultural sources, including literature, expository and journalistic prose, speeches and essays in and from Arabic. '

**Prerequisite:** ARAB 67010 and TRST 60010; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ARAB 67250 COMMERCIAL, LEGAL AND DIPLOMATIC TRANSLATION 3 Credit Hours**

Translating a variety of commercial, financial and legal texts, with special emphasis on text-types most generally translated by professional translators; examining diplomatic texts to understand the language of diplomacy and find the best way to translate it into the target language. Texts subjected for translation from Arabic into English and English into Arabic include employment contracts, articles of incorporation, annual financial statements, diplomatic or official notes, presidential speeches, and international business articles.

**Prerequisite:** ARAB 67010 and TRST 60010; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ARAB 67251 SCIENTIFIC, TECHNICAL AND MEDICAL TRANSLATION 3 Credit Hours**

Introducing methods and resources for the translation of scientific, technical, industrial and medical documents; translating a variety of scientific and medical texts, with special emphasis on text-types most generally translated by professional translators.

**Prerequisite:** TRST 60001 and TRST 60010; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ARAB 67979 TRANSLATION CASE STUDY 3 Credit Hours**

Students are responsible for a major translation and a terminology glossary as well as a critical analysis of the source text, the problems encountered during the translation process and the strategies used to solve them.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**Chinese (CHIN)****CHIN 15101 ELEMENTARY CHINESE I 4 Credit Hours**

An introduction to Mandarin Chinese in the context of modern Chinese-speaking cultures.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 4 lecture

**Grade Mode:** Standard Letter

**Attributes:** TAG Foreign Language

**CHIN 15102 ELEMENTARY CHINESE II 4 Credit Hours**

A continuation of the introduction to Mandarin Chinese in the context of modern Chinese-speaking cultures.

**Prerequisite:** CHIN 15101.

**Schedule Type:** Lecture

**Contact Hours:** 4 lecture

**Grade Mode:** Standard Letter

**CHIN 25201 INTERMEDIATE CHINESE I 4 Credit Hours**

Continued development of speaking, listening, reading and writing skills using a variety of cultural materials.

**Prerequisite:** CHIN 15102.

**Schedule Type:** Lecture

**Contact Hours:** 4 lecture

**Grade Mode:** Standard Letter

**CHIN 25202 INTERMEDIATE CHINESE II 4 Credit Hours**

Continuation of CHIN 25201.

**Prerequisite:** CHIN 25201.

**Schedule Type:** Lecture

**Contact Hours:** 4 lecture

**Grade Mode:** Standard Letter

**Attributes:** TAG Foreign Language

**CHIN 25421 CHINESE CULTURE 3 Credit Hours**

This course will guide students to explore the foundations of Chinese civilization and the dimensions of Chinese culture. The course will focus on providing students with a deeper knowledge of Chinese culture and better understanding of contemporary China. This course is a basic introduction to Chinese culture. It does not presume prior knowledge of China or the Chinese language. This course is taught in English and is open to students in any program.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CHIN 30095 SPECIAL TOPICS 3 Credit Hours**

(Repeatable for credit) Topic to be announced in schedule of classes.

**Prerequisite:** Permission.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CHIN 35211 INTENSIVE CHINESE CONVERSATION 3 Credit Hours**

This course increases students' knowledge of Chinese vocabulary and sentence structure; emphasis will be on developing fluency and oral proficiency in Chinese.

**Prerequisite:** CHIN 25202.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CHIN 35221 CHINESE IN THE REAL WORLD 3 Credit Hours**

This course focuses on how the Chinese language varies by social and cultural contexts. The instructor will utilize different socially and culturally relevant topics to help students master the structures, vocabulary, and idiomatic expressions commonly used in formal and informal situations. Students will be systematically exposed to the distinguishing features of written and spoken Chinese in terms of language form, function, and communication.

**Prerequisite:** CHIN 25202.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CHIN 45096 INDIVIDUAL INVESTIGATION 1-3 Credit Hours**

(Repeatable for a total of 6 credit hours) Individual study supervised by a faculty member on an approved topic dealing with Chinese language and/or culture.

**Prerequisite:** CHIN 25201.

**Schedule Type:** Individual Investigation

**Contact Hours:** 1-3 other

**Grade Mode:** Standard Letter-IP

**CHIN 45302 BUSINESS CHINESE 3 Credit Hours**

Study of the business protocol, language functions, texts and vocabulary associated with travel and business in the Chinese-speaking world.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CHIN 45322 CHINESE FICTION 3 Credit Hours**

This course emphasizes speaking and reading skills in Chinese through selected stories and anecdotes including sayings from classical philosophers, folk tales, legends, and great works of literature.

**Prerequisite:** CHIN 25202.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CHIN 45323 CHINESE COMPOSITION 3 Credit Hours**

This course focuses on studying modern and classical forms of Chinese literature written by acknowledged masters. Through studying these works, students improve their understanding of Chinese literature, open avenues of thought, broaden their vocabulary, master basic rules and techniques of writing, and develop the ability to write with eloquence and skill.

**Prerequisite:** CHIN 25202.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Classics (CLAS)****CLAS 21201 ENGLISH WORDS FROM CLASSICAL ELEMENTS 3 Credit Hours**

Building of English vocabulary through study of basic roots from Latin and Greek; prefixes, suffixes, rules for accent and pronunciation; specialized scientific and legal terminology.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CLAS 21404 THE GREEK ACHIEVEMENT (DIVG) (KHUM) 3 Credit Hours**

A survey of the cultural achievements of the ancient Greeks as manifested in their poetry, philosophy, history and art from the Homeric period through the New Testament.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Diversity Global, Kent Core Humanities, Transfer Module Humanities

**CLAS 21405 THE ROMAN ACHIEVEMENT (DIVG) (KHUM) 3 Credit Hours**

A survey of the cultural achievements of the ancient Romans as manifested in their literature and art from the Etruscans through the Christians.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Diversity Global, Kent Core Humanities, Transfer Module Humanities

**CLAS 21406 SPORT AND ANCIENT DAILY LIFE 3 Credit Hours**

Investigation of the development of combat sports in the ancient world and the culture in which they evolved. Also emphasized is the development from amateur athletics in the Greek world to the Roman professional gladiators and charioteers.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CLAS 40793 VARIABLE TITLE WORKSHOP IN CLASSICS 1-6 Credit Hours**

(Repeatable for credit)(Slashed with CLAS 50793) Workshops individually designed to provide instruction and training in specific areas of classical studies.

**Prerequisite:** Special approval.

**Schedule Type:** Workshop

**Contact Hours:** 1-6 other

**Grade Mode:** Satisfactory/Unsatisfactory

**CLAS 41005 HISTORY OF ANCIENT GREECE 3 Credit Hours**

(Slashed with CLAS 51005) Survey of Greek history from the Bronze Age to the rise of Macedonia and Alexander the Great.

**Prerequisite:** Junior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CLAS 41006 ROMAN HISTORY 3 Credit Hours**

(Cross-listed with HIST 41006) (Slashed with CLAS 51006, HIST 51006 and HIST 71006) A survey of Roman history from its beginnings to the fall of the Roman Empire.

**Prerequisite:** Junior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CLAS 41089 CLASSICS INTERNATIONAL EXPERIENCE 1-4 Credit Hours**

(Slashed with CLAS 51089) A Kent State faculty-led study abroad experience that involves experiential activities and site visits outside the United States. May include, for example, participation in an archaeological dig or tour of sites in Italy and Greece. Course may have pre- or post-travel classroom study. Course activities may include classroom study, research, fieldwork, internships and service-learning.

**Prerequisite:** Special approval.

**Schedule Type:** Lecture, Practical Experience

**Contact Hours:** 1-4 lecture

**Grade Mode:** Standard Letter

**CLAS 41092 FIELD EXPERIENCE IN CLASSICS (ELR) 1-4 Credit Hours**

(Repeatable for a maximum of 7 credit hours)(Slashed with CLAS 51092) Travel-based study/field experience at a site or sites away from Kent State University under the supervision of members of the classics faculty. The primary purpose is the observation and study of artifacts, monuments and sites that pertain to classical antiquity. Examples of travel/study include field trips to museums, study trips to Rome or other cities and participation in an archaeological field school.

**Prerequisite:** None.

**Schedule Type:** Field Experience

**Contact Hours:** 1-4 other

**Grade Mode:** Standard Letter

**Attributes:** Experiential Learning Requirement

**CLAS 41095 SPECIAL TOPICS IN CLASSICS 3 Credit Hours**

(Repeatable for a maximum of 6 credit hours)(Slashed with CLAS 51095) Topic varies per course offering and listed in the schedule of classes.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CLAS 41096 INDIVIDUAL INVESTIGATION 1-3 Credit Hours**

(Repeatable for a total of 9 credit hours) Investigation of problems in archaeology, mythology and ancient comparative literature.

**Prerequisite:** Special approval.

**Schedule Type:** Individual Investigation

**Contact Hours:** 1-3 other

**Grade Mode:** Standard Letter-IP

**CLAS 41097 COLLOQUIUM IN CLASSICS 3 Credit Hours**

(Repeatable for credit)(Slashed with CLAS 51097) Detailed study of an aspect of antiquity that engages issues of current interest, for example women in antiquity, ancient Christianity, multiculturalism in antiquity.

**Prerequisite:** None.

**Schedule Type:** Colloquium

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**CLAS 41301 CLASSICAL MYTHOLOGY 3 Credit Hours**

(Slashed with CLAS 51301) Assessment of major streams of ancient mythology stressing broad humanistic concepts of religion, philosophy and literature.

**Prerequisite:** Sophomore standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CLAS 41304 LITERATURE OF THE ROMAN WORLD (ELR) (WIC) 3 Credit Hours**

(Slashed with CLAS 51304) Major works of Latin literature, studied in their historical context by genre; knowledge of Latin not required. Authors read include Plautus, Terence, Lucretius, Cicero, Catullus, Vergil, Horace, Petronius, Seneca, Suetonius, Tacitus and Juvenal.

**Prerequisite:** Junior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Experiential Learning Requirement, Writing Intensive Course

**CLAS 41305 CLASSICAL LITERARY STUDIES 3 Credit Hours**

(Repeatable for a maximum of 12 credit hours) (Slashed with CLAS 51305) Study of a particular literary genre. Topics are individually designed to provide instruction and training of a specific genre of Greek or Roman literature.

**Prerequisite:** Junior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CLAS 41401 GREEK ARCHAEOLOGY AND ART 3 Credit Hours**

(Cross-listed with ARTH 42031)(Slashed with CLAS 51401 and ARTH 52031) Introduction to archaeology of the Greek world with emphasis on recent discoveries and their impact on the study of Greek art, architecture and sculpture through the Hellenistic period.

**Prerequisite:** Junior or senior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CLAS 41402 ROMAN ARCHAEOLOGY AND ART 3 Credit Hours**

(Cross-listed with ARTH 42032)(Slashed with CLAS 51402 and ARTH 52032) Introduction to archaeology of the Roman world with emphasis on recent discoveries and their impact on the study of Etruscan and Roman art, architecture and sculpture through the Imperial period.

**Prerequisite:** Junior or senior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CLAS 41404 ANCIENT CHRISTIANITIES 3 Credit Hours**

In-depth examination of the formative period of Christianity and the diverse "Christianities" during the first 100 years after the death of Jesus of Nazareth, including the Judaic context for the birth of Christianity, diversity among the earliest Christian communities, and the process by which the New Testament canon was formed. Study of a variety of texts produced by the early church.

**Prerequisite:** Junior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CLAS 41503 LITERATURE OF THE ANCIENT GREEKS (ELR) (WIC) 3 Credit Hours**

(Slashed with CLAS 51503) Major works of Greek literature, studied in their historical context and by genre. Knowledge of Greek is not required.

**Prerequisite:** Junior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Experiential Learning Requirement, Writing Intensive Course

**CLAS 50793 VARIABLE TITLE WORKSHOP IN CLASSICS 1-6 Credit Hours**

(Repeatable for credit)(Slashed with CLAS 40793) Workshops individually designed to provide instruction and training in specific areas of classical studies.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Workshop

**Contact Hours:** 1-6 other

**Grade Mode:** Satisfactory/Unsatisfactory

**CLAS 51005 HISTORY OF ANCIENT GREECE 3 Credit Hours**

(Slashed with CLAS 41005) Survey of Greek history from the Bronze Age to the rise of Macedonia and Alexander the Great.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CLAS 51006 ROMAN HISTORY 3 Credit Hours**

(Cross-listed with HIST 51006) (Slashed with CLAS 41006, HIST 41006 and HIST 71006) A survey of Roman history from its beginnings to the fall of the Roman Empire.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CLAS 51089 CLASSICS INTERNATIONAL EXPERIENCE 1-4 Credit Hours**

(Slashed CLAS 51089) A Kent State faculty-led study abroad experience that involves experiential activities and site visits outside the United States. International experience may include, for example, participation in an archaeological dig or tour of sites in Italy or Greece. International experience courses may have pre-and post-travel classroom study. Course activities include, but are not limited to, classroom study, research, fieldwork, internships and service-learning.

**Prerequisite:** Graduate Standing; and special approval.

**Schedule Type:** Lecture, Practical Experience

**Contact Hours:** 1-4 lecture

**Grade Mode:** Standard Letter

**CLAS 51092 FIELD EXPERIENCE IN CLASSICS 1-4 Credit Hours**

(Repeatable for a maximum of 7 credit hours)(Slashed with CLAS 41092) Travel-based study/field experience at a site or sites away from Kent State University under the supervision of members of the classics faculty. The primary purpose is the observation and study of artifacts, monuments and sites that pertain to classical antiquity. Examples of travel/study include field trips to museums, study trips to Rome or other cities and participation in an archaeological field school.

**Prerequisite:** Graduate standing.

**Schedule Type:** Field Experience

**Contact Hours:** 1-4 other

**Grade Mode:** Standard Letter

**CLAS 51095 SPECIAL TOPICS IN CLASSICS 3 Credit Hours**

(Repeatable for a maximum of 6 credit hours)(Slashed with CLAS 51095) Topic varies per course offering and listed in the schedule of classes.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CLAS 51097 COLLOQUIUM IN CLASSICS 3 Credit Hours**

(Repeatable for credit) (Slashed with CLAS 41097) Detailed study of an aspect of antiquity that engages issues of current interest, for example women in antiquity, ancient Christianity, multiculturalism in antiquity.

**Prerequisite:** Graduate standing.

**Schedule Type:** Colloquium

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**CLAS 51301 CLASSICAL MYTHOLOGY 3 Credit Hours**

(Slashed with CLAS 41301) Assessment of major streams of ancient mythology stressing broad humanistic concepts of religion, philosophy and literature.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CLAS 51304 LITERATURE OF THE ROMAN WORLD 3 Credit Hours**

(Slashed with CLAS 41304) Major works of Latin literature, studied in their historical context by genre; knowledge of Latin not required. Authors read include Plautus, Terence, Lucretius, Cicero, Catullus, Vergil, Horace, Petronius, Seneca and Juvenal.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter



**CLAS 51305 CLASSICAL LITERARY STUDIES 3 Credit Hours**

(Repeatable for a maximum of 12 credit hours) (Slashed with CLAS 41305) Study of a particular literary genre. Topics are individually designed to provide instruction and training of a specific genre of Greek or Roman literature.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CLAS 51401 GREEK ARCHAEOLOGY AND ART 3 Credit Hours**

(Slashed with CLAS 41401) (Cross-listed with ARTH 42031 and ARTH 52031) Introduction to archaeology of the Greek world with emphasis on recent discoveries and their impact on the study of Greek art, architecture and sculpture through the Hellenistic period.

**Prerequisite:** Graduate standing.

**Schedule Type:** Laboratory, Lecture, Seminar

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CLAS 51402 ROMAN ARCHAEOLOGY AND ART 3 Credit Hours**

(Cross-listed with ARTH 52032)(Slashed with CLAS 41402 and ARTH 42032) Introduction to archaeology of the Roman world with emphasis on recent discoveries and their impact on the study of Etruscan and Roman art, architecture and sculpture through the Imperial period.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CLAS 51503 LITERATURE OF THE ANCIENT GREEKS 3 Credit Hours**

(Slashed with CLAS 41503) Major works of Greek literature, studied in their historical context and by genre. Knowledge of Greek is not required.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CLAS 61404 ANCIENT CHRISTIANITIES 3 Credit Hours**

In-depth examination of the formative period of Christianity and the diverse "Christianities" during the first 100 years after the death of Jesus of Nazareth, including the Judaic context for the birth of Christianity, diversity among the earliest Christian communities, and the process by which the New Testament canon was formed. Study of a variety of texts produced by the early church.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CLAS 66398 RESEARCH 1-6 Credit Hours**

(Repeatable for maximum 15 credit hours) Research, final project or individual investigation for master's level students. Credits earned apply toward degree requirements with department approval.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Research

**Contact Hours:** 3-18 other

**Grade Mode:** Standard Letter-IP

**French (FR)****FR 13201 ELEMENTARY FRENCH I 4 Credit Hours**

An introduction to the French language in the context of Francophone cultures.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 4 lecture

**Grade Mode:** Standard Letter

**FR 13202 ELEMENTARY FRENCH II 4 Credit Hours**

A continuation of the introduction to the French language in the context of Francophone cultures.

**Prerequisite:** FR 13201.

**Schedule Type:** Lecture

**Contact Hours:** 4 lecture

**Grade Mode:** Standard Letter

**FR 23201 INTERMEDIATE FRENCH I 3 Credit Hours**

Continued development of speaking, listening, reading and writing skills using a variety of cultural materials.

**Prerequisite:** FR 13202.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**FR 23202 INTERMEDIATE FRENCH II 3 Credit Hours**

Continuation of FR 23201.

**Prerequisite:** FR 23201.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**FR 33095 SELECTED TOPICS IN FRENCH 3 Credit Hours**

(Repeatable for a maximum of 9 credit hours) Topic to be announced in the schedule of classes.

**Prerequisite:** FR 33211.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**FR 33211 FRENCH CONVERSATION 3 Credit Hours**

A course designed to enhance students' oral proficiency through instruction in facilitating conversation and the discussion of culture-based texts.

**Prerequisite:** FR 23202.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**FR 33212 FRENCH COMPOSITION 3 Credit Hours**

A course designed to develop writing and reading skills, and in particular to prepare students to read and write about French literature.

**Prerequisite:** FR 23202; and special approval.

**Corequisite:** FR 33214.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**FR 33214 FRENCH COMPOSITION EXTENDED 2 Credit Hours**

Designed to develop writing and reading skills, and in particular to prepare students to read and write about French literature.

**Prerequisite:** FR 23202; and special approval.

**Corequisite:** FR 33212.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**FR 33215 FRENCH PHONETICS AND DICTION 3 Credit Hours**

Study of sounds of French language and their relation to spelling; application of international phonetic alphabet to French. Study augmented by recordings.

**Prerequisite:** FR 23202.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**FR 33231 TRANSLATION PRACTICE: FRENCH 1 Credit Hour**

Translation practice with French texts using principles and techniques learned in the lecture class. To be taken concurrently with TRST 30230.

**Corequisite:** TRST 30230.

**Schedule Type:** Lecture

**Contact Hours:** 1 lecture

**Grade Mode:** Standard Letter

**FR 33240 CONVERSATION FOR BUSINESS AND SPECIAL PURPOSES: FRENCH 3 Credit Hours**

Introduction to the special vocabulary of business and other special subject areas; introduces the concept of language for special purposes and emphasizes the use of special vocabulary in conversations in business and other settings.

**Prerequisite:** FR 33211.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**FR 33335 INTRODUCTION TO FRENCH THEATRE (ELR) (WIC) 3 Credit Hours**

Evolution of French dramatic literature from the middle ages to the present. Readings of representative works with lectures analyses. In French.

**Prerequisite:** FR 33212.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Experiential Learning Requirement, Writing Intensive Course

**FR 33336 INTRODUCTION TO FRENCH POETRY (ELR) (WIC) 3 Credit Hours**

Evolution of French poetry from the middle ages to the present. Readings of representative works with lectures analyses. In French.

**Prerequisite:** FR 33212.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Experiential Learning Requirement, Writing Intensive Course

**FR 33337 INTRODUCTION TO FRENCH LITERARY PROSE (ELR) (WIC) 3 Credit Hours**

Masterpieces of French literary prose from the seventeenth century to the present. Readings of representative major works, lectures, analyses. In French. This course may be used to satisfy the WIC graduation requirement with approval of major department.

**Prerequisite:** FR 33212 and FR 33214 or permission.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Experiential Learning Requirement, Writing Intensive Course

**FR 33421 FRENCH CIVILIZATION 3 Credit Hours**

A survey of French history and culture from its beginnings to World War II. Taught in French.

**Prerequisite:** FR 33212.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**FR 43091 FRENCH SEMINAR 3 Credit Hours**

(Repeatable for credit) (Slashed with FR 53091) Topic to be announced.

**Prerequisite:** One course from FR 33335 or FR 33336 or FR 33337.

**Schedule Type:** Seminar

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**FR 43093 VARIABLE TITLE WORKSHOP IN FRENCH 1-6 Credit Hours**

(Repeatable for credit) Workshops individually designed to provide instruction and training in specific areas of French studies.

**Prerequisite:** Special approval.

**Schedule Type:** Workshop

**Contact Hours:** 1-6 other

**Grade Mode:** Satisfactory/Unsatisfactory

**FR 43096 INDIVIDUAL INVESTIGATION 1-3 Credit Hours**

(Repeatable for a maximum of 6 credit hours) Allows the advanced, serious student to carry out research study project on French literature, language or culture. Prior approval of supervising faculty members department required.

**Prerequisite:** Special approval.

**Schedule Type:** Individual Investigation

**Contact Hours:** 1-3 other

**Grade Mode:** Standard Letter-IP

**FR 43213 FRENCH COMPOSITION-ADVANCED 3 Credit Hours**

(Slashed with FR 53213) French stylistics developed by analyses of literary extracts and practice in written expression.

**Prerequisite:** FR 33335 or FR 33336 or FR 33337 or FR 33421.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**FR 43216 CONTEMPORARY FRENCH CULTURE 3 Credit Hours**

(Slashed with FR 53216) A study of selected sociological, political, cultural or economic issues in the contemporary Francophone world.

**Prerequisite:** FR 33421; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**FR 43230 ADVANCED TRANSLATION PRACTICE: FRENCH (WIC) 3 Credit Hours**

Theory and practice course that discusses translation theory and emphasizes French-to-English translation of selected texts in business, technology, medicine and law.

**Prerequisite:** FR 33231.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Writing Intensive Course

**FR 43240 BUSINESS AND SPECIAL TEXTS: FRENCH (ELR) 3 Credit Hours**

Survey of the typical text types of business in the French culture and language. Practice sessions focus on reading and understanding specialized texts and on the translation and composition of selected special texts in French.

**Prerequisite:** FR 33212.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Experiential Learning Requirement

**FR 43368 THE TWENTIETH-CENTURY FRENCH NOVEL 3 Credit Hours**

Studies of selected 20th century French novels, with detailed study of the novel of one or several major writers or movements.

**Prerequisite:** 6 semester hours from the 33330-level.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**FR 43369 TWENTIETH-CENTURY FRENCH POETRY 3 Credit Hours**

(Slashed with FR 53369) A study of selected poetry of Apollinaire, Breton, Mansour, Eluard, Michaux, Char, Reverdy, Ponge, Guillevic, Jabes, Bonnefoy, Dupin, Albiach and others. Emphasis is placed on the relationship between poetry and the visual arts in the 20th century.

**Prerequisite:** 6 semester hours from the FR 33330-level.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**FR 43370 THE TWENTIETH CENTURY FRENCH THEATRE 3 Credit Hours**

(Slashed with FR 53370) Studies in French drama since 1900.

**Prerequisite:** 6 semester hours from the 33330-level.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**FR 53091 FRENCH SEMINAR 3 Credit Hours**

(Repeatable for credit) (Slashed with FR 43091) Topic to be announced.

**Prerequisite:** Graduate standing.

**Schedule Type:** Seminar

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**FR 53213 FRENCH COMPOSITION-ADVANCED 3 Credit Hours**

French stylistics developed through analyses of literary extracts and practice in written expression.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**FR 53216 CONTEMPORARY FRENCH CULTURE 3 Credit Hours**

(Slashed with FR 43216) A study of selected sociological, political, cultural or economic issues in the contemporary Francophone world.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**FR 53368 20TH-CENTURY FRENCH NOVEL 3 Credit Hours**

Study of selected 20th-century French novels, with emphasis on one or several major writers or movements.

**Prerequisite:** 6 hours from 33330-level; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**FR 53369 20TH-CENTURY FRENCH POETRY 3 Credit Hours**

(Slashed with FR 43369) A study of selected poetry of Apollinaire, Breton, Mansour, Eluard, Michaux, Char, Reverdy, Ponge, Guillevic, Jabes, Bonnefoy, Dupin, Alpiach and others. Emphasis is placed on the relationship between poetry and the visual arts in the 20th century.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**FR 53370 20TH-CENTURY FRENCH THEATRE 3 Credit Hours**

(Slashed with FR 43370) Studies in French drama since 1900.

**Prerequisite:** 6 hours from 33330-level; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**FR 63010 THE PRACTICE OF FRENCH TRANSLATION 2 Credit Hours**

Students apply linguistic and communication science concepts to case studies of language mediation.

**Prerequisite:** Graduate standing.

**Corequisite:** TRST 60010.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**FR 63093 VARIABLE TITLE WORKSHOP IN FRENCH 1-6 Credit Hours**

(Repeatable for credit) Workshops individually designed to provide instruction and training in specific areas of French studies.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Workshop

**Contact Hours:** 1-6 other

**Grade Mode:** Satisfactory/Unsatisfactory

**FR 63098 RESEARCH 1-15 Credit Hours**

(Repeatable for credit) Research or individual investigation for master's level graduate students. Credits earned applied toward degree requirements if department approves.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Research

**Contact Hours:** 1-15 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**FR 63199 THESIS I 2-6 Credit Hours**

Thesis students must register for a total of 6 hours, 2 to 6 hours in a single semester distributed over several semesters if desired.

**Prerequisite:** Graduate standing.

**Schedule Type:** Masters Thesis

**Contact Hours:** 2-6 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**FR 63201 READING FRENCH FOR GRADUATE STUDENTS 4 Credit Hours**

Introduction to the fundamentals of French grammar for graduate students. Practice in reading and translation.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 4 lecture

**Grade Mode:** Standard Letter

**FR 63240 LITERARY AND CULTURAL TRANSLATION 3 Credit Hours**

Translation of documents from a variety of literary and cultural sources, including literature, expository and journalistic prose, scholarly treatises and essays. Translation into French will also be emphasized.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**FR 63250 COMMERCIAL, LEGAL AND DIPLOMATIC TRANSLATION 3 Credit Hours**

An introduction to methods and resources for the translation of commercial, economic, financial, legal, diplomatic and governmental documents.

**Prerequisite:** TRST 60010; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**FR 63251 SCIENTIFIC, TECHNICAL AND MEDICAL TRANSLATION 3 Credit Hours**

An introduction to methods and resources for the translation of scientific, technical, industrial and medical documents.

**Prerequisite:** TRST 60010; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**FR 63299 THESIS II 2 Credit Hours**

Thesis students must continue registration each semester until all degree requirements are met.

**Prerequisite:** FR 63199; and graduate standing.

**Schedule Type:** Masters Thesis

**Contact Hours:** 2 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**FR 63979 CASE STUDY IN TRANSLATION 3 Credit Hours**

Students will be responsible for a major translation and a terminology glossary as well as a critical analysis of the source text, the problems encountered during the translation process and the strategies used to solve them.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Satisfactory/Unsatisfactory

**German (GER)****GER 11201 ELEMENTARY GERMAN I 4 Credit Hours**

An introduction to the German language in the context of the cultures of German-speaking lands.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 4 lecture

**Grade Mode:** Standard Letter

**Attributes:** TAG Foreign Language

**GER 11202 ELEMENTARY GERMAN II 4 Credit Hours**

A continuation of the introduction to the German language in the context of the cultures of German-speaking lands.

**Prerequisite:** GER 11201.

**Schedule Type:** Lecture

**Contact Hours:** 4 lecture

**Grade Mode:** Standard Letter

**Attributes:** TAG Foreign Language

**GER 21201 INTERMEDIATE GERMAN I 3 Credit Hours**

Continued development of speaking, listening, reading and writing skills using a variety of cultural materials.

**Prerequisite:** GER 11202.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** TAG Foreign Language

**GER 21202 INTERMEDIATE GERMAN II 3 Credit Hours**

Continuation of GER 21201.

**Prerequisite:** GER 21201.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** TAG Foreign Language

**GER 31095 SPECIAL TOPICS 1-3 Credit Hours**

(Repeatable for credit) Topic announced in schedule of classes.

**Prerequisite:** Junior standing.

**Schedule Type:** Lecture

**Contact Hours:** 1-3 lecture

**Grade Mode:** Standard Letter

**GER 31201 INTENSIVE GERMAN GRAMMAR 3 Credit Hours**

A systematic approach to German grammar and syntax.

**Prerequisite:** GER 21202.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**GER 31211 GERMAN COMPOSITION AND CONVERSATION 3 Credit Hours**

Grammar review and practice in writing and speaking German.

**Prerequisite:** GER 21202; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**GER 31215 GERMAN PHONETICS AND DICTION 3 Credit Hours**

Study of the German sound system with emphasis on pronunciation and intonation. Reading and performance of a series of skits and short plays.

**Prerequisite:** GER 21202.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**GER 31231 TRANSLATION PRACTICE: GERMAN 1 Credit Hour**

Translation practice with German texts using principles and techniques learned in the lecture class.

**Corequisite:** TRST 30230.

**Schedule Type:** Lecture

**Contact Hours:** 1 lecture

**Grade Mode:** Standard Letter

**GER 31240 CONVERSATION FOR BUSINESS AND SPECIAL****PURPOSES: GERMAN 3 Credit Hours**

Introduction to the special vocabulary of business and other special subject areas; introduces the concept of language for special purposes and emphasizes the use of special vocabulary in conversations in business and other settings.

**Prerequisite:** GER 31211.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**GER 31303 INTRODUCTION TO GERMAN LITERATURE 3 Credit Hours**

Introduction to German literature and textual analysis.

**Prerequisite:** GER 21202 and GER 31201.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**GER 31421 GERMAN CIVILIZATION 3 Credit Hours**

A survey of German history and intellectual life to 1918; taught in German.

**Prerequisite:** Six hours upper division german courses.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**GER 41095 SPECIAL TOPICS 1-4 Credit Hours**

(Repeatable for credit) (Slashed with GER 51095) Topic announced in schedule of classes.

**Prerequisite:** Senior standing.

**Schedule Type:** Lecture

**Contact Hours:** 1-4 lecture

**Grade Mode:** Standard Letter

**GER 41096 INDIVIDUAL INVESTIGATION 1-3 Credit Hours**

(Repeatable for credit) (Slashed with GER 51096) Independent investigation of problems in German language or literature.

**Prerequisite:** 6 hours of upper division german; and special approval of the department chairperson.

**Schedule Type:** Individual Investigation

**Contact Hours:** 1-3 other

**Grade Mode:** Standard Letter-IP

**GER 41211 ADVANCED GERMAN COMPOSITION AND CONVERSATION 3 Credit Hours**

Advanced practice in speaking and writing German.

**Prerequisite:** GER 31211.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**GER 41216 CONTEMPORARY GERMAN CULTURE (ELR) (WIC) 3 Credit Hours**

(Slashed with GER 51216) A study of selected sociological, political, cultural and economic issues in contemporary German- speaking countries using readings, films and legal documents as the basis for discussions. Taught in German.

**Prerequisite:** Six hours of upper division german courses.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Experiential Learning Requirement, Writing Intensive Course

**GER 41230 ADVANCED TRANSLATION PRACTICE: GERMAN (ELR) (WIC) 3 Credit Hours**

Theory and practice course that discusses translation theory and emphasizes German-to-English translation of selected texts in business, technology, medicine and law.

**Prerequisite:** GER 31231.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Experiential Learning Requirement, Writing Intensive Course

**GER 41240 BUSINESS AND SPECIAL TEXTS: GERMAN 3 Credit Hours**

Survey of the typical text types of business in the German culture and language. Practice sessions focus on reading and understanding specialized texts, and on the translation and composition of selected special texts in German.

**Prerequisite:** GER 31211.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**GER 41323 GERMAN FAIRY TALES 3 Credit Hours**

(Slashed with GER 51323) An investigation in German fairy tales, from the Brothers Grimm to the literary fairy tales of later German authors.

**Prerequisite:** GER 31201 and GER 31211; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**GER 41324 GERMAN LITERATURE FOR CHILDREN AND ADOLESCENTS 3 Credit Hours**

(Slashed with GER 51324) An investigation into German literature for children and adolescents from the Middle Ages to modernity.

**Prerequisite:** GER 31201 and GER 31211; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**GER 41330 TWENTIETH-CENTURY GERMAN AUTHORS (ELR) (WIC) 3 Credit Hours**

(Slashed with GER 51330) A survey of the major movements and authors of the twentieth century.

**Prerequisite:** Special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Experiential Learning Requirement, Writing Intensive Course

**GER 41332 GERMAN LITERATURE BY WOMEN 3 Credit Hours**

(Slashed with GER 51332) Readings of works by female German authors. Taught in German.

**Prerequisite:** Junior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**GER 41334 THE GERMAN NOVELLA 3 Credit Hours**

(Slashed with GER 51334) Development of the German novella from the eighteenth century to the present. Readings of major works lectures analyses taught in German.

**Prerequisite:** Special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter



**GER 41338 GERMAN POETRY 3 Credit Hours**

An examination of the nature of poetry with particular attention to its development in Germany, Austria and Switzerland. Taught in German.

**Prerequisite:** Six hours of upper division german courses.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**GER 41340 HISTORY OF GERMAN LITERATURE TO 1750 3 Credit Hours**

A history of the development of German literature from the Germanic tribes through the Age of Enlightenment (the first half of the eighteenth century).

**Prerequisite:** GER 31303 and 31421.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**GER 41341 HISTORY OF GERMAN LITERATURE 1750 TO THE PRESENT 3 Credit Hours**

A history of the development of German literature from the Age of Sensibility (the second half of the eighteenth century) to the present.

**Prerequisite:** GER 31303 and 31421.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**GER 41365 CLASSICAL GERMAN LITERATURE (ELR) (WIC) 3 Credit Hours**

(Slashed with GER 51365) Reading and critical analysis of major works of the classical age with emphasis on Goethe.

**Prerequisite:** Special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Experiential Learning Requirement, Writing Intensive Course

**GER 41399 RESEARCH PROJECT IN GERMAN LITERATURE (ELR) 3 Credit Hours**

(Repeatable for credit) Thesis or other independent study.

**Prerequisite:** 6 hours at the 40000-level.

**Schedule Type:** Senior Project/Honors Thesis

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter-IP

**Attributes:** Experiential Learning Requirement

**GER 41731 SURVEY OF GERMAN CINEMA 3 Credit Hours**

(Slashed with GER 51731) A survey of major contributions to the German cinema from the beginnings to the present; taught in German.

**Prerequisite:** Six hours of upper division german courses.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**GER 51095 SPECIAL TOPICS 1-4 Credit Hours**

(Repeatable for credit) (Slashed with GER 41095) Topic announced in schedule of classes.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 1-4 lecture

**Grade Mode:** Standard Letter

**GER 51096 INDIVIDUAL INVESTIGATION 1-3 Credit Hours**

(Repeatable for credit) (Slashed with GER 41096) Independent investigation of problems in German language or literature. Permission of the department chair required.

**Prerequisite:** Graduate standing.

**Schedule Type:** Individual Investigation

**Contact Hours:** 1-3 other

**Grade Mode:** Standard Letter-IP

**GER 51212 STYLISTICS 3 Credit Hours**

Development of written German style through selected readings, textual analysis and stylistic exercises.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**GER 51216 CONTEMPORARY GERMAN CULTURE 3 Credit Hours**

(Slashed with GER 41216) A study of selected sociological, political, cultural and economic issues in contemporary German-speaking countries, using readings, films and legal documents as the basis for discussion. Taught in German.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**GER 51323 GERMAN FAIRY TALES 3 Credit Hours**

(Slashed with GER 41323) An investigation into German fairy tales, from the Brothers Grimm to the literary fairy tales of later German authors.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**GER 51324 GERMAN LITERATURE FOR CHILDREN AND ADOLESCENTS 3 Credit Hours**

(Slashed with GER 41324) An investigation into German literature for children and adolescents from the Middle Ages to modernity.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**GER 51330 20TH-CENTURY GERMAN AUTHORS 3 Credit Hours**

(Slashed with GER 41330) A survey of the major movements and authors of the twentieth century.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**GER 51332 GERMAN LITERATURE BY WOMEN 3 Credit Hours**

(Slashed with GER 41332) Readings of works by female German authors. Taught in German.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**GER 51334 THE GERMAN NOVELLA 3 Credit Hours**

(Slashed with GER 41334) Development of the German novella from the 18th century to the present. Readings of major works, lectures, analyses; taught in German.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**GER 51340 HISTORY OF GERMAN LITERATURE TO 1750 3 Credit Hours**

A history of the development of German literature from the Germanic tribes through the Age of Enlightenment (the first half of the eighteenth century).

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**GER 51341 HISTORY OF GERMAN LITERATURE 1750 TO THE PRESENT 3 Credit Hours**

A history of the development of German literature from the Age of Sensibility (the second half of the eighteenth century) to the present.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**GER 51365 CLASSICAL GERMAN LITERATURE 3 Credit Hours**

(Slashed with GER 41365) Reading and critical analysis of major works of the classical age with emphasis on Goethe.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**GER 51731 SURVEY OF GERMAN CINEMA 3 Credit Hours**

(Slashed with GER 41731) A survey of major contributions to the German cinema from the beginnings to the present; taught in German.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**GER 61001 GRADUATE RESEARCH AND WRITING IN GERMAN 3 Credit Hours**

Individual instruction and assistance with problems encountered in academic research and writing in German. Required of all graduate students in their first semester of graduate work.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**GER 61010 THE PRACTICE OF GERMAN TRANSLATION 2 Credit Hours**

Students apply linguistic and communication science concepts to case studies of language mediation.

**Prerequisite:** Graduate standing.

**Corequisite:** TRST 60010.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**GER 61091 VARIABLE TOPIC SEMINAR 3 Credit Hours**

(Repeatable for credit) Topic announced in schedule of classes.

**Prerequisite:** Graduate standing.

**Schedule Type:** Seminar

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**GER 61199 THESIS I 2-6 Credit Hours**

Thesis students must register for a total of 6 hours, 2 to 6 hours in a single semester distributed over several semesters if desired.

**Prerequisite:** Graduate standing.

**Schedule Type:** Masters Thesis

**Contact Hours:** 2-6 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**GER 61240 LITERARY AND CULTURAL TRANSLATION 3 Credit Hours**

Translating documents from a variety of literary and cultural sources, including literature, expository and journalistic prose, scholarly treatises and essays. Translation into German will also be emphasized.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**GER 61250 COMMERCIAL, LEGAL AND DIPLOMATIC TRANSLATION 3 Credit Hours**

An introduction to methods and resources for the translation of commercial, economic, financial, legal, diplomatic and governmental documents.

**Prerequisite:** TRST 60010; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**GER 61251 SCIENTIFIC, TECHNICAL AND MEDICAL TRANSLATION 3 Credit Hours**

An introduction to methods and resources for the translation of scientific, technical, industrial and medical documents.

**Prerequisite:** TRST 60010; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**GER 61299 THESIS II 2 Credit Hours**

Thesis students must continue registration each semester until all degree requirements are met.

**Prerequisite:** GER 61199; and graduate standing.

**Schedule Type:** Masters Thesis

**Contact Hours:** 2 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**GER 61350 SEMINAR ON THE LYRIC 3 Credit Hours**

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**GER 61398 RESEARCH 1-15 Credit Hours**

(Repeatable for credit) Research for master's level graduate students. Credit toward degree requirements may be given with department approval.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Research

**Contact Hours:** 1-15 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**GER 61901 READING GERMAN FOR GRADUATE STUDENTS 4 Credit Hours**

Introduction to the fundamentals of German grammar for graduate students. Practice in reading and translation.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 4 lecture

**Grade Mode:** Standard Letter

**GER 61902 READING GERMAN FOR GRADUATE STUDENTS 3 Credit Hours**

Continued practice in reading and translation. Independent study of scholarly texts in the student's own discipline.

**Prerequisite:** GER 61901; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**GER 61979 CASE STUDY IN TRANSLATION 3 Credit Hours**

Students will be responsible for a major translation and a terminology glossary as well as a critical analysis of the source text, the problems encountered during the translation process and the strategies used to solve them.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Satisfactory/Unsatisfactory

**Greek (GRE)****GRE 14201 ELEMENTARY CLASSICAL GREEK I 4 Credit Hours**

An introduction to the classical Greek language in the context of ancient Greek culture.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 4 lecture

**Grade Mode:** Standard Letter

**GRE 14202 ELEMENTARY CLASSICAL GREEK II 4 Credit Hours**

A continuation of the introduction to the classical Greek language in the context of ancient Greek culture.

**Prerequisite:** GRE 14201.

**Schedule Type:** Lecture

**Contact Hours:** 4 lecture

**Grade Mode:** Standard Letter

**GRE 24201 INTERMEDIATE CLASSICAL GREEK I: READINGS 3 Credit Hours**

Excerpts from classical Greek literature with emphasis on translation into English.

**Prerequisite:** GRE 14202.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**GRE 24202 INTERMEDIATE CLASSICAL GREEK II: READINGS 3 Credit Hours**

Excerpts from classical Greek literature with emphasis on both prose (e.g. Plato) and poetry (e.g. Euripides).

**Prerequisite:** GRE 24201.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**GRE 34370 PLATO: APOLOGY AND PHAEDO 3 Credit Hours**

Readings in the original Greek of Plato's dialogues centering on the trial, conviction and death of Socrates.

**Prerequisite:** GRE 24202.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**GRE 34371 HOMER 3 Credit Hours**

Selections from the Iliad or Odyssey studied from a literary and grammatical standpoint.

**Prerequisite:** GRE 24202.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**GRE 34372 ADVANCED READINGS IN GREEK 3 Credit Hours**

Readings in the original Greek of authors in poetry and prose studied from a literary and grammatical standpoint.

**Prerequisite:** GRE 24202; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**GRE 40393 VARIABLE TITLE WORKSHOP 1-6 Credit Hours**

(Repeatable for credit) (Slashed with GRE 50393) Workshops individually designed to provide instruction and training in specific areas of Greek studies.

**Prerequisite:** Department permission.

**Schedule Type:** Workshop

**Contact Hours:** 1-6 other

**Grade Mode:** Satisfactory/Unsatisfactory

**GRE 44096 INDIVIDUAL INVESTIGATION 1-3 Credit Hours**

(Repeatable for credit) Investigation of problems in Greek literature or linguistics.

**Prerequisite:** Special approval.

**Schedule Type:** Individual Investigation

**Contact Hours:** 1-3 other

**Grade Mode:** Standard Letter-IP

**GRE 50393 VARIABLE TITLE WORKSHOP IN GREEK 2-4 Credit Hours**

(Repeatable for credit) (Slashed with GRE 40393) Variable topic offered as need arises to train in specific area of field.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Workshop

**Contact Hours:** 2-4 other

**Grade Mode:** Satisfactory/Unsatisfactory

**Hebrew (HEBR)****HEBR 12101 ELEMENTARY HEBREW I 4 Credit Hours**

An introduction to the modern Hebrew language in the context of Israeli culture.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 4 lecture

**Grade Mode:** Standard Letter

**HEBR 12102 ELEMENTARY HEBREW II 4 Credit Hours**

A continuation of the introduction to the modern Hebrew language in the context of Israeli culture.

**Prerequisite:** HEBR 12101.

**Schedule Type:** Lecture

**Contact Hours:** 4 lecture

**Grade Mode:** Standard Letter

**HEBR 22104 INTERMEDIATE HEBREW I 3 Credit Hours**

Continued development of speaking, listening, reading and writing skills using a variety of cultural materials.

**Prerequisite:** HEBR 12102.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HEBR 22105 INTERMEDIATE HEBREW II 3 Credit Hours**

Continuation of HEBR 22104.

**Prerequisite:** HEBR 22104.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Heritage Languages (HRTG)****HRTG 10101 ELEMENTARY I (VARIABLE LANGUAGE) 4 Credit Hours**

An introduction to a heritage language in the context of the culture of its speakers.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 4 lecture

**Grade Mode:** Standard Letter

**HRTG 10102 ELEMENTARY II (VARIABLE LANGUAGE) 4 Credit Hours**

A continuation of the introduction to a heritage language in the context of the culture of its speakers.

**Prerequisite:** HRTG 10101; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 4 lecture

**Grade Mode:** Standard Letter

**HRTG 20201 INTERMEDIATE I (VARIABLE LANGUAGE) 3 Credit Hours**

Continued development of speaking, listening, reading and writing skills using a variety of cultural materials.

**Prerequisite:** HRTG 10102; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HRTG 20202 INTERMEDIATE II (VARIABLE LANGUAGE) 3 Credit Hours**

Continuation of HRTG 20201.

**Prerequisite:** HRTG 20201.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HRTG 30095 SPECIAL TOPICS 1-3 Credit Hours**

(Repeatable for credit) Topic announced in schedule of classes.

**Prerequisite:** Permission.

**Schedule Type:** Lecture

**Contact Hours:** 1-3 lecture

**Grade Mode:** Standard Letter

**Italian (ITAL)****ITAL 15201 ELEMENTARY ITALIAN I 4 Credit Hours**

An introduction to the Italian language in the context of Italian culture.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 4 lecture

**Grade Mode:** Standard Letter

**Attributes:** TAG Foreign Language

**ITAL 15202 ELEMENTARY ITALIAN II 4 Credit Hours**

A continuation of the introduction to the Italian language in the context of Italian culture.

**Prerequisite:** ITAL 15201.

**Schedule Type:** Lecture

**Contact Hours:** 4 lecture

**Grade Mode:** Standard Letter

**Attributes:** TAG Foreign Language

**ITAL 15204 BASIC CONVERSATIONAL ITALIAN I 2 Credit Hours**

Exposure to basic grammar and to current Italian useful to travelers. Not applicable to fulfillment of foreign language requirement.

**Prerequisite:** Special approval.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**ITAL 25201 INTERMEDIATE ITALIAN I 3 Credit Hours**

Continued development of speaking, listening, reading and writing skills using a variety of cultural materials.

**Prerequisite:** ITAL 15202.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** TAG Foreign Language

**ITAL 25202 INTERMEDIATE ITALIAN II 3 Credit Hours**

Continuation of ITAL 25201.

**Prerequisite:** ITAL 25201.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** TAG Foreign Language

**ITAL 35211 COMPOSITION AND CONVERSATION: CONTEMPORARY ITALIAN SOCIETY 3 Credit Hours**

This course is designed to develop acquisition of written and oral proficiency through the study and practice of written and spoken Italian in the context of contemporary societal issues.

**Prerequisite:** ITAL 25202.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ITAL 35213 COMPOSITION AND CONVERSATION: MEDIA AND INFORMATION IN ITALY 3 Credit Hours**

This course is designed to develop acquisition of written and oral proficiency through the study and practice of written and spoken Italian in the context of contemporary Italian media and information-gathering.

**Prerequisite:** ITAL 25202.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ITAL 35331 EARLY ITALIAN LITERATURE 3 Credit Hours**

A survey of Italian literature from its medieval origins through the Baroque period.

**Prerequisite:** ITAL 35211 or ITAL 35213.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ITAL 35332 RECENT ITALIAN LITERATURE (ELR) 3 Credit Hours**

A survey of Italian literature from the Enlightenment through the 1900s and into the 21st century.

**Prerequisite:** ITAL 35211 or ITAL 35213.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Experiential Learning Requirement

**ITAL 35421 ITALIAN CIVILIZATION 3 Credit Hours**

Lectures, readings, oral and written reports on outstanding features of the culture and civilization of Italy.

**Prerequisite:** ITAL 25202.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ITAL 35597 COLLOQUIUM 3 Credit Hours**

(Repeatable for credit) Variable topic course deals with single literary theme in Italian literature or a single author. May be offered in Italian or in English translation.

**Prerequisite:** Permission.

**Schedule Type:** Colloquium

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**ITAL 45093 VARIABLE TITLE WORKSHOP IN ITALIAN 1-6 Credit Hours**

(Repeatable for credit) Workshops individually designed to provide instruction and training in specific areas of Italian studies.

**Prerequisite:** Departmental permission.

**Schedule Type:** Workshop

**Contact Hours:** 1-6 other

**Grade Mode:** Satisfactory/Unsatisfactory

**ITAL 45095 SPECIAL TOPICS IN ITALIAN 3 Credit Hours**

Designed to instruct students on a specific topic in the area of Italian studies.

**Prerequisite:** ITAL 35211.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ITAL 45096 INDIVIDUAL INVESTIGATION 1-3 Credit Hours**

(Repeatable for a total of 6 credit hours) Allows the advanced, serious student to carry out research study project on Italian literature, language or culture. Prior approval of supervising faculty member department required.

**Prerequisite:** ITAL 25202; and junior standing; and special approval.

**Schedule Type:** Individual Investigation

**Contact Hours:** 1-3 other

**Grade Mode:** Standard Letter-IP

**ITAL 45212 ADVANCED ITALIAN CONVERSATION 3 Credit Hours**

Designed to develop students' ability to employ acquired grammar and vocabulary in conversation in Italian. Students will elaborate on cultural and social aspects of Italy presented in class and actively participate in class discussions.

**Prerequisite:** ITAL 35211 or 35213.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Japanese (JAPN)****JAPN 15101 ELEMENTARY JAPANESE I 4 Credit Hours**

Introduction to modern standard Japanese in the context of Japanese culture.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 4 lecture

**Grade Mode:** Standard Letter

**JAPN 15102 ELEMENTARY JAPANESE II 4 Credit Hours**

A continuation of the introduction to modern standard Japanese in the context of Japanese culture.

**Prerequisite:** JAPN 15101.

**Schedule Type:** Lecture

**Contact Hours:** 4 lecture

**Grade Mode:** Standard Letter

**JAPN 25201 INTERMEDIATE JAPANESE I 4 Credit Hours**

Continued development of speaking, listening, reading and writing skills using a variety of cultural materials.

**Prerequisite:** JAPN 15102.

**Schedule Type:** Lecture

**Contact Hours:** 4 lecture

**Grade Mode:** Standard Letter

**JAPN 25202 INTERMEDIATE JAPANESE II 4 Credit Hours**

Continuation of JAPN 25201.

**Prerequisite:** JAPN 25201.

**Schedule Type:** Lecture

**Contact Hours:** 4 lecture

**Grade Mode:** Standard Letter

**JAPN 30095 SPECIAL TOPICS 3 Credit Hours**

(Repeatable for credit) Topic to be announced in schedule of classes.

**Prerequisite:** Permission.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**JAPN 35101 INTENSIVE JAPANESE GRAMMAR 3 Credit Hours**

A continuation of the study of modern standard Japanese grammar. Focus on passive, causative, passive-causative forms.

**Prerequisite:** JAPN 25202 with a minimum C grade.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**JAPN 35325 READINGS IN MODERN JAPANESE 3 Credit Hours**

Close readings of contemporary Japanese topics such as technology, pop culture, food, geography, etc. Emphasizes reading skills, vocabulary, and kanji.

**Pre/corequisite:** JAPN 35101.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**JAPN 35326 READINGS IN TRADITIONAL JAPANESE 3 Credit Hours**

Close readings of traditional Japanese topics such as folk tales, arts, history, haiku, etc. Emphasizes reading skills, vocabulary and Kanji.

**Pre/corequisite:** JAPN 35101.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter



**JAPN 45096 INDIVIDUAL INVESTIGATION IN JAPANESE 1-3 Credit Hours**

(Repeatable for credit) Individual study supervised by a faculty member on an approved topic dealing with Japanese language and-or culture.

**Prerequisite:** JAPN 25201.

**Schedule Type:** Individual Investigation

**Contact Hours:** 1-3 other

**Grade Mode:** Standard Letter-IP

**JAPN 45211 WRITING IN JAPANESE 3 Credit Hours**

Advanced study of Japanese with emphasis on writing in different styles (essays, questionnaires, charts, emails, etc).

**Pre/corequisite:** JAPN 35101.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**JAPN 45212 ORAL COMMUNICATION IN JAPANESE 3 Credit Hours**

The class focuses on oral communication. Students practice expressing their opinions on familiar subjects and various topics related to Japanese culture through group discussion, interviews, role plays, and presentations. They learn different communication strategies and conversation styles from casual to formal.

**Pre/corequisite:** JAPN 35101.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**JAPN 45301 BUSINESS JAPANESE 3 Credit Hours**

Development of the four language skills in a manner specific to Japanese corporate settings. Introduces Japanese business practice and business etiquette.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**JAPN 45411 VOICES FROM JAPAN 3 Credit Hours**

Designed to further develop students' proficiency in speaking, listening, writing and reading comprehension. The textbook includes interviews with Japanese from various backgrounds.

**Pre/corequisite:** JAPN 35101.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**JAPN 45421 JAPANESE CULTURE 3 Credit Hours**

Explores key aspects of traditional and contemporary Japanese culture. Taught in English; no knowledge of Japanese necessary.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**JAPN 45591 VARIABLE TOPIC SEMINAR IN JAPANESE 3 Credit Hours**

(Repeatable for credit) Seminar in Japanese literature or culture; course may be repeated when content varies. Student should have completed at least 9 hours of upper division work in Japanese.

**Prerequisite:** Special approval.

**Schedule Type:** Seminar

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**JAPN 55301 BUSINESS JAPANESE 3 Credit Hours**

Development of the four language skills in a manner specific to Japanese corporate settings. Introduces Japanese business practice and business etiquette.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**JAPN 65010 THE PRACTICE OF JAPANESE TRANSLATION 2 Credit Hours**

Provides an introduction to the translation of non-specialized, non-fiction Japanese texts, focusing on common problem areas, general translation strategies, and specific techniques for resolving problems.

**Prerequisite:** Graduate standing.

**Corequisite:** TRST 60010.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**JAPN 65091 SEMINAR 3 Credit Hours**

(Repeatable for credit) Topic announced in schedule of classes; may be repeated when content varies.

**Prerequisite:** Graduate standing.

**Schedule Type:** Seminar

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**JAPN 65098 RESEARCH 1-15 Credit Hours**

(Repeatable for credit) Research or individual investigation for master's level graduate students. Credits earned applied toward degree requirements if department approves.

**Prerequisite:** Graduate standing; and departmental approval.

**Schedule Type:** Research

**Contact Hours:** 1-15 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**JAPN 65240 LITERARY AND CULTURAL TRANSLATION 3 Credit Hours**

Translation of documents from a variety of literary and cultural sources, including literature, expository and journalistic prose, scholarly treatises and essays.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**JAPN 65250 COMMERCIAL, LEGAL AND DIPLOMATIC TRANSLATION 3 Credit Hours**

An introduction to methods and resources for the translation of commercial, economic, financial, legal, diplomatic and governmental documents.

**Prerequisite:** TRST 60010; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**JAPN 65251 SCIENTIFIC, TECHNICAL AND MEDICAL TRANSLATION 3 Credit Hours**

An introduction to methods and resources for the translation of scientific, technical, industrial and medical documents.

**Prerequisite:** TRST 60010; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**JAPN 65979 CASE STUDY IN TRANSLATION 3 Credit Hours**

Students will be responsible for a major translation and a terminology glossary as well as a critical analysis of the source text, the problems encountered during the translation process and the strategies used to solve them.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Satisfactory/Unsatisfactory

**Latin (LAT)****LAT 16201 ELEMENTARY LATIN I 4 Credit Hours**

An introduction to the classical Latin language in the context of ancient Roman culture.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 4 lecture

**Grade Mode:** Standard Letter

**LAT 16202 ELEMENTARY LATIN II 4 Credit Hours**

A continuation of the introduction to the classical Latin language in the context of ancient Roman culture.

**Prerequisite:** LAT 16201.

**Schedule Type:** Lecture

**Contact Hours:** 4 lecture

**Grade Mode:** Standard Letter

**LAT 26201 INTERMEDIATE LATIN I: READINGS 3 Credit Hours**

Excerpts from Latin literature with emphasis on translation into English.

**Prerequisite:** LAT 16202.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**LAT 26202 INTERMEDIATE LATIN II: READINGS 3 Credit Hours**

Excerpts from Latin literature with emphasis on both prose (e.g., Caesar, Cicero) and poetry (Vergil, Catullus).

**Prerequisite:** LAT 26201.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**LAT 36170 CICERO 3 Credit Hours**

Readings in Cicero's orations and philosophical works, stressing rhetorical techniques. Consideration of Cicero's role in Roman history and his place in Latin literature.

**Prerequisite:** LAT 26202.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**LAT 36171 VERGIL 3 Credit Hours**

A study of the Latin text of Vergil's Aeneid stressing the poetry of the language. Consideration of entire poem and its impact on Latin literature.

**Prerequisite:** LAT 26202.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**LAT 36172 ADVANCED READINGS IN LATIN 3 Credit Hours**

Readings in the original Latin of prose and poetry authors studied from a literary and grammatical standpoint.

**Prerequisite:** LAT 26202.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**LAT 40393 VARIABLE TITLE WORKSHOP 1-6 Credit Hours**

(Repeatable for credit) Workshops individually designed to provide instruction and training in Latin studies. S u graded.

**Prerequisite:** Departmental permission.

**Schedule Type:** Workshop

**Contact Hours:** 1-6 other

**Grade Mode:** Satisfactory/Unsatisfactory

**LAT 41214 LATIN EPIGRAPHY 3 Credit Hours**

Study of ancient inscriptions (funerary, career, documentary, graffiti, etc.) preserved on any kind of durable material, with focus on cultural information necessary to understand the content and significance of the inscriptions under investigation.

**Prerequisite:** LAT 36170 or LAT 36171; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**LAT 41304 ROMAN HISTORIANS 3 Credit Hours**

(Slashed with LAT 51304) Stylistics and cultural context of Roman historians. Readings from any of the following: Caesar, Livy, Suetonius, Tacitus.

**Prerequisite:** LAT 36170 or LAT 36171; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**LAT 41305 ROMAN COMEDY AND SATIRE 3 Credit Hours**

Stylistics, history and cultural context of Roman comedy and satire. Readings from any of the following: Plautus, Terence, Horace, Juvenal, Persius, Martial.

**Prerequisite:** LAT 36170 or LAT 36171; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**LAT 41306 LATIN EPIC 3 Credit Hours**

(Slashed with LAT 51306) Stylistics, history and cultural context of Latin epic poetry. Readings from any of the following: Vergil, Lucretius, Ovid, Lucan, Statius.

**Prerequisite:** LAT 36170 or LAT 36171; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**LAT 41307 LYRIC AND ELEGIAC POETRY 3 Credit Hours**

(Slashed with LAT 51307) Stylistics, history and cultural context of Latin lyric and elegiac poetry. Readings from any of the following: Catullus, Horace, Propertius, Tibullus, Ovid.

**Prerequisite:** LAT 36170 or LAT 36171; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**LAT 41308 ORATORY AND LETTERS 3 Credit Hours**

Stylistics, history and cultural context of Latin oratory and the Latin epistle. Readings from any of the following: Cicero, Seneca, Pliny.

**Prerequisite:** LAT 36170 or LAT 36171; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**LAT 46095 SELECTED TOPICS IN LATIN 3 Credit Hours**

(Repeatable for credit) Topic announced in the schedule of classes.

**Prerequisite:** LAT 36170 or LAT 36171.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**LAT 46096 INDIVIDUAL INVESTIGATION 1-3 Credit Hours**

(Repeatable for credit) Investigation of problems in Latin literature or linguistics.

**Prerequisite:** Minimum 3 hours of coursework at the 40000-level; and departmental special approval.

**Schedule Type:** Individual Investigation

**Contact Hours:** 1-3 other

**Grade Mode:** Standard Letter-IP

**LAT 46211 LATIN PROSE COMPOSITION 3 Credit Hours**

Analysis of prose models; writing of connected Latin prose with attention to the Latin idiom.

**Prerequisite:** LAT 36170 or LAT 36171.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**LAT 46373 ADVANCED PROSE AUTHORS 3 Credit Hours**

(Repeatable for credit) Consideration of a major prose author such as Pliny the Younger, Livy, Tacitus or Suetonius.

**Prerequisite:** LAT 36170 or LAT 36171.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**LAT 50393 VARIABLE TITLE WORKSHOP IN LATIN 1-6 Credit Hours**

(Repeatable for credit) Workshops individually designed to provide instruction and training in Latin studies.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Workshop

**Contact Hours:** 1-6 other

**Grade Mode:** Satisfactory/Unsatisfactory

**LAT 51304 ROMAN HISTORIANS 3 Credit Hours**

(Slashed with LAT 41304) Stylistics and cultural context of Roman historians. Readings from any of the following: Caesar, Livy, Suetonius, Tacitus.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**LAT 51306 LATIN EPIC 3 Credit Hours**

(Slashed with LAT 41306) Stylistics, history and cultural context of Latin epic. Readings from any of the following: Vergil, Ovid, Lucan, Lucretius, Statius.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**LAT 51307 LYRIC AND ELEGIAC POETRY 3 Credit Hours**

(Slashed with LAT 41307) Stylistics, history and cultural context of Latin lyric and elegiac poetry. Readings from any of the following. Catullus, Horace, Propertius, Tibullus, Ovid.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**LAT 56095 SELECTED TOPICS IN LATIN 3 Credit Hours**

(Repeatable for a maximum of 15 credit hours) Topic to be announced in semester schedule of classes.

**Prerequisite:** LAT 36171; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**LAT 61001 RESEARCH AND WRITING 3 Credit Hours**

Use of lexical tools, bibliographies and corpora specific to research in Classics and Latin. Conventions of scholarship in the discipline of Classics. To be taken in conjunction with a 50000 or 60000-level course in Latin literature.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**LAT 61214 LATIN EPIGRAPHY 3 Credit Hours**

Study of ancient inscriptions (funerary, career, documentary, graffiti, etc.) preserved on any kind of durable material, with focus on cultural information necessary to understand the content and significance of the inscriptions under investigation.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**LAT 61305 ROMAN COMEDY AND SATIRE 3 Credit Hours**

Stylistics, history and cultural context of Roman comedy and satire. Readings from any of the following: Plautus, Terence, Horace, Juvenal, Persius, Martial.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**LAT 61308 ORATORY AND LETTERS 3 Credit Hours**

Stylistics, history and cultural context of Latin oratory and the Latin epistle. Readings from any of the following: Cicero, Seneca, Pliny.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**LAT 66199 THESIS I 2-6 Credit Hours**

Thesis students must register for a total of 6 hours, 2 to 6 hours in single semester distributed over several semesters if desired.

**Prerequisite:** Graduate standing.

**Schedule Type:** Masters Thesis

**Contact Hours:** 2-6 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**LAT 66211 ADVANCED PROSE COMPOSITION 3 Credit Hours**

More thorough training in composition where need is established.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**LAT 66299 THESIS II 2 Credit Hours**

Thesis students must continue registration each semester until all degree requirements are met.

**Prerequisite:** LAT 66199; and graduate standing.

**Schedule Type:** Masters Thesis

**Contact Hours:** 3 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**LAT 66391 SEMINAR IN CLASSICAL LITERATURE 2,3 Credit Hours**

(Repeatable for credit) Topics to be announced.

**Prerequisite:** Graduate standing.

**Schedule Type:** Seminar

**Contact Hours:** 2-3 other

**Grade Mode:** Standard Letter-IP

**LAT 66398 RESEARCH 1-15 Credit Hours**

(Repeatable for credit) Research or individual investigation for master's level graduate students. Credits earned applied toward degree requirements if department approves.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Research

**Contact Hours:** 1-15 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**Modern and Classical Language Studies (MCLS)****MCLS 10001 INTRODUCTION TO STRUCTURAL CONCEPTS FOR LANGUAGE STUDENTS 3 Credit Hours**

Prepares students for successful study of a foreign language; includes introduction to basic grammatical concepts such as use of verb tenses, personal pronouns, etc., as well as strategies for learning a foreign language efficiently.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MCLS 10095 SPECIAL TOPICS IN ELEMENTARY FOREIGN LANGUAGE STUDY 1-3 Credit Hours**

(Repeatable for credit) Study of a foreign language at the elementary level (Elementary I or II) or intermediate level (Intermediate I or II) as determined appropriate by the department. No proficiency needed for work at the Elementary I level; proficiency equivalent of Elementary I for work at the Elementary II level, at Elementary II for the Intermediate I level, and at Intermediate I for the Intermediate II level.

**Prerequisite:** Special approval.

**Schedule Type:** Lecture

**Contact Hours:** 1-3 other

**Grade Mode:** Standard Letter

**MCLS 20001 GLOBAL LITERACY AND CULTURAL AWARENESS (KADL) 3 Credit Hours**

Introduction to dimensions of cultural identity and parameters of cultural expression, with a focus on fostering cultural awareness skills. By exploring the ways in which culture shapes us, students gain a better understanding of the dynamics shaping their world, the world of others, and their respective places in it. Discussion of real-world critical incidents, authentic cultural ethnographies, and case studies provide students with concrete examples and contexts to solve problems linked to encounters with persons of different linguistic and cultural backgrounds.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Kent Core Additional

**MCLS 20091 VARIABLE CONTENT SEMINAR IN GLOBAL LITERACY: CASE STUDIES 3 Credit Hours**

(Repeatable for credit) In-depth study of the interaction between two or more cultures of the world, focusing on the impact of linguistic and other cultural differences. Topics will vary.

**Prerequisite:** None.

**Schedule Type:** Seminar

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MCLS 21417 MULTICULTURALISM IN TODAY'S GERMANY (DIVG) 3 Credit Hours**

This course examines how issues of diversity have shaped German culture and traces the country's transformation into a postnational, multicultural society. Taught in English; knowledge of German not necessary.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Diversity Global

**MCLS 28403 HISPANICS IN THE UNITED STATES 3 Credit Hours**

An introduction to historic and cultural aspects of Latino experiences in the United States using a comparative approach focusing on Mexicans, Puerto Ricans, Cubans, Central Americans and other immigrants from other Latin American countries, living in the United States. The course is taught in English.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MCLS 28404 THE LATIN AMERICAN EXPERIENCE (DIVG) 3 Credit Hours**

An introduction to various aspects of contemporary Latin American societies and cultures. Taught in English; knowledge of a foreign language is not necessary.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Diversity Global

**MCLS 30420 FOREIGN LANGUAGES AND CULTURE STUDIES 3****Credit Hours**

Examines the anthropological, linguistic and cultural dimensions involved in language interactions. Students acquire the skills necessary to analyze language and culture "in action" from verbal and non-verbal perspectives, and to identify and reflect on the distinctive viewpoints of other cultures and speakers of other languages. Interactive lectures, discussions and application activities build on students' current linguistic and cultural competence.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MCLS 30660 ORIENTATION TO SECOND LANGUAGE PEDAGOGY 3****Credit Hours**

Theories of human development and learning, second language acquisition research and second language methodology form the basis for classroom practices. Peer-teaching and 30 hours of field experience required.

**Prerequisite:** Special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MCLS 39597 INTRADEPARTMENTAL COLLOQUIUM 1-4 Credit Hours**

(Repeatable for credit)Permits students to explore areas of special interest not usually covered in standard departmental courses, e.g. movies and literature, women in literature.

**Prerequisite:** None.

**Schedule Type:** Colloquium

**Contact Hours:** 1-4 other

**Grade Mode:** Standard Letter

**MCLS 40093 VARIABLE TITLE WORKSHOP IN MODERN AND CLASSICAL LANGUAGE STUDIES 1-6 Credit Hours**

(Repeatable for credit)Workshops individually designed to provide instruction and training in specific areas of modern and classical language studies.

**Prerequisite:** Departmental special approval.

**Schedule Type:** Workshop

**Contact Hours:** 1-6 other

**Grade Mode:** Satisfactory/Unsatisfactory

**MCLS 40095 SELECTED TOPICS 1-3 Credit Hours**

(Repeatable for credit when topic varies) Topic to be announced in the schedule of classes.

**Prerequisite:** Senior standing.

**Schedule Type:** Lecture

**Contact Hours:** 1-3 lecture

**Grade Mode:** Standard Letter

**MCLS 40525 INQUIRY INTO PROFESSIONAL PRACTICE 3 Credit Hours**

Foreign language teaching as a profession and the teacher as disciplined investigator. The final seminar of four it is conducted during the student teaching semester with emphasis on collaborative and individual classroom problem solving.

**Prerequisite:** Special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MCLS 40654 COMPUTERS IN SECOND LANGUAGE TEACHING 3****Credit Hours**

(Slashed and MCLS 50654) Designed for future teachers of language and culture, this course explores the availability of technology, its implementation in the classroom and its integration with second language skills.

**Prerequisite:** MCLS 30660.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MCLS 40657 STUDENT TEACHING OF A SECOND LANGUAGE (ELR) 3-9 Credit Hours**

Supervised practicum in the teaching of a second language, grades K-12.

**Prerequisite:** Official valid certification of child safety training, approved basic life support and ALICE training must be presented to the campus office of clinical experience or designated faculty/staff at regional campuses as prerequisite for student teaching; and special approval.

**Schedule Type:** Practical Experience

**Contact Hours:** 3-9 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**Attributes:** Experiential Learning Requirement

**MCLS 40660 METHODS OF TEACHING FOREIGN LANGUAGE 3****Credit Hours**

Theoretical bases, approaches, methods, materials and techniques of foreign language instruction at the elementary and secondary levels. Peer-teaching and 30 hours of field experience required.

**Prerequisite:** MCLS 30660; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MCLS 50093 VARIABLE TITLE WORKSHOP IN MODERN AND CLASSICAL LANGUAGE STUDIES 1-6 Credit Hours**

(Repeatable for credit)Workshops individually designed to provide instruction and training in specific areas of modern and classical language studies.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Workshop

**Contact Hours:** 1-6 other

**Grade Mode:** Satisfactory/Unsatisfactory

**MCLS 50095 SELECTED TOPICS 1-3 Credit Hours**

(Repeatable for credit when topic varies)Topic to be announced in the schedule of classes.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 1-3 lecture

**Grade Mode:** Standard Letter

**MCLS 50654 COMPUTERS IN SECOND LANGUAGE TEACHING 3****Credit Hours**

(Slashed with MCLS 40654) Designed for teachers of language and culture, this course explores the availability of technology, its implementation in the classroom and its integration with foreign language skills.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter



**MCLS 50660 METHODS OF TEACHING FOREIGN LANGUAGES 3 Credit Hours**

Theoretical bases, approaches, methods, materials and techniques of foreign language instruction at the elementary and secondary levels. Peer teaching 30 hours of field experience and curriculum guide required.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MCLS 60020 SEMEIOTICS 3 Credit Hours**

(Cross-listed PHIL 61055) An introduction to contemporary theories of semeiotics and to the application of those theories to linguistics, literature, translation and technology.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MCLS 60094 COLLEGE TEACHING OF FOREIGN LANGUAGES 1 Credit Hour**

(Repeatable for credit) An introduction to current principles and issues in the teaching of foreign languages at the college elementary and intermediate levels. Required of departmental teaching assistants.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 1 lecture

**Grade Mode:** Satisfactory/Unsatisfactory

**MCLS 60330 APPROACHES TO LITERATURE AND CULTURE 3 Credit Hours**

Introduction to the major critical theories used for the analysis of literature and culture.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MCLS 60601 LINGUISTICS FOR THE LANGUAGE PROFESSIONS 3 Credit Hours**

(Cross-listed with ENG 63040) Students will be introduced to basic linguistic issues and how these relate to the language professions. Course focuses on functional principles, especially on options to express textual, interpersonal and ideational/experiential meaning.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MCLS 60621 THE PRAGMATICS OF CONVERSATION 3 Credit Hours**

Theories of pragmatics, conversational structure and strategies with practical applications for teaching conversation strategies to foreign/second language learners.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MCLS 60622 TEACHING LITERATURE AND CULTURE 3 Credit Hours**

(Cross-listed with ENG 63038) Students will explore theories of literature and culture teaching as well as strategies for teaching literature and culture.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MCLS 60623 SOCIOCULTURAL THEORY AND FOREIGN AND SECOND LANGUAGE ACQUISITION 3 Credit Hours**

The foundations of sociocultural theory and its applications to the second and foreign language classroom.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MCLS 60624 HERITAGE LANGUAGES AND SECOND LANGUAGE LEARNING 3 Credit Hours**

(Cross-listed with ENG 63047) Theory and practice in language education of heritage language speakers. Ethnic, minority, ancestral, and community languages and language practices will be explored with implications for second and additional language learning in English, foreign language, bilingual education.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MCLS 60661 THEORIES IN SECOND LANGUAGE ACQUISITION 3 Credit Hours**

(Slashed with ENG 63033 and ENG 73033) This course surveys the major theoretical approaches to language acquisition, concentrating on second language acquisition and the relationship between acquisition/learning research and second language teaching approaches.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MCLS 60663 SECOND LANGUAGE CURRICULUM AND TESTING 3 Credit Hours**

(Cross-listed with ENG 63039) Students will study second language curriculum and testing design and current issues, including oral proficiency testing.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MCLS 60664 SECOND LANGUAGE READING 3 Credit Hours**

(Cross-listed with ENG 63044) This course addresses a wide variety of topics related to second language reading, including theoretical perspectives, the process of learning to read, models of how reading happens, comprehension, fluency, discourse structures, strategy use, and vocabulary acquisition. Teaching issues related to second language reading will also be addressed directly, namely assessment and curriculum building.

**Prerequisite:** Graduate standing.

**Schedule Type:** Seminar

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MCLS 60665 SECOND LANGUAGE WRITING 3 Credit Hours**  
 (Cross-listed with ENG 63043) Theory and practice in teaching second language writing. Topics will include current and historic approaches to second language writing, approaches to tutoring international students in writing centers, teacher and peer response, error correction and technology in second language writing instruction.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MCLS 60698 SECOND LANGUAGE RESEARCH METHODS 3 Credit Hours**

(Cross-listed with ENG 63098) Students learn how second language research influences their teaching practices by studying research texts and recent journal articles and conducting a research project.

**Prerequisite:** Graduate standing.

**Schedule Type:** Research

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

## Russian (RUSS)

**RUSS 12201 ELEMENTARY RUSSIAN I 4 Credit Hours**

An introduction to the Russian language in the context of Russian cultures.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 4 lecture

**Grade Mode:** Standard Letter

**RUSS 12202 ELEMENTARY RUSSIAN II 4 Credit Hours**

A continuation of the introduction to the Russian language in the context of Russian cultures.

**Prerequisite:** RUSS 12201.

**Schedule Type:** Lecture

**Contact Hours:** 4 lecture

**Grade Mode:** Standard Letter

**RUSS 22201 INTERMEDIATE RUSSIAN I 4 Credit Hours**

Continued development of speaking, listening, reading and writing skills using a variety of cultural materials.

**Prerequisite:** RUSS 12202.

**Schedule Type:** Lecture

**Contact Hours:** 4 lecture

**Grade Mode:** Standard Letter

**RUSS 22202 INTERMEDIATE RUSSIAN II 4 Credit Hours**

Continuation of RUSS 22201 in the development of speaking, listening, reading and writing skills using a variety of cultural materials.

**Prerequisite:** RUSS 22201.

**Schedule Type:** Lecture

**Contact Hours:** 4 lecture

**Grade Mode:** Standard Letter

**RUSS 32201 INTENSIVE RUSSIAN GRAMMAR 3 Credit Hours**

A systematic approach to Russian grammar and syntax.

**Prerequisite:** RUSS 22202.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**RUSS 32211 COMPOSITION AND CONVERSATION 3 Credit Hours**

Introduction to advanced oral and written discourse strategies in Russian.

**Prerequisite:** RUSS 22202.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**RUSS 32215 RUSSIAN PHONETICS AND DICTION 3 Credit Hours**

Study of the Russian sound system with special emphasis on pronunciation and intonation. Application of the international phonetic alphabet to Russian.

**Prerequisite:** RUSS 22202.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**RUSS 32231 TRANSLATION PRACTICE: RUSSIAN 1 Credit Hour**

Translation practice with Russian texts using principles and techniques learned in the lecture class.

**Prerequisite:** RUSS 22202.

**Pre/corequisite:** TRST 30230.

**Schedule Type:** Lecture

**Contact Hours:** 1 lecture

**Grade Mode:** Standard Letter

**RUSS 32240 CONVERSATION FOR BUSINESS AND SPECIAL**

**PURPOSES: RUSSIAN 3 Credit Hours**

Introduction to the special vocabulary of business and other special subject areas. Course introduces the concept of language for special purposes and emphasizes the use of special vocabulary in conversations in business and other settings.

**Prerequisite:** RUSS 22202.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**RUSS 32303 MODERN WRITERS (ELR) (WIC) 3 Credit Hours**

Reading and analysis of modern Russian plays and stories.

**Prerequisite:** RUSS 22202.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Experiential Learning Requirement, Writing Intensive Course

**RUSS 32421 RUSSIAN CIVILIZATION (ELR) (WIC) 3 Credit Hours**

A survey of Russian history and intellectual life.

**Prerequisite:** RUSS 32303.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Experiential Learning Requirement, Writing Intensive Course

**RUSS 32501 RUSSIAN LITERATURE IN ENGLISH 3 Credit Hours**

Survey of major authors, movements and works of 19th- and 20th-century Russian literature in English translation. No knowledge of Russian is required.

**Prerequisite:** Sophomore standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**RUSS 42093 VARIABLE TITLE WORKSHOP IN RUSSIAN LANGUAGE AND LITERATURE 1-6 Credit Hours**

(Repeatable for credit) Workshops individually designed to provide instruction and training in specific areas of Russian studies.

**Prerequisite:** Special approval.

**Schedule Type:** Workshop

**Contact Hours:** 1-6 other

**Grade Mode:** Satisfactory/Unsatisfactory

**RUSS 42095 SPECIAL TOPICS IN RUSSIAN LANGUAGE AND LITERATURES 1-4 Credit Hours**

(Repeatable for credit) Topic varies per course offering; to be announced in schedule of classes.

**Prerequisite:** Senior standing.

**Schedule Type:** Lecture

**Contact Hours:** 1-4 lecture

**Grade Mode:** Standard Letter

**RUSS 42096 INDIVIDUAL INVESTIGATION 1-3 Credit Hours**

(Repeatable for credit) Independent investigation of problems in Russian language or literature.

**Prerequisite:** 6 credit hours of upper-division Russian courses (RUSS 30000 and 40000 levels); and special approval of the department chair.

**Schedule Type:** Individual Investigation

**Contact Hours:** 1-3 other

**Grade Mode:** Standard Letter-IP

**RUSS 42211 ADVANCED COMPOSITION AND CONVERSATION 3 Credit Hours**

(Slashed with RUSS 52211) Advanced practice in written and oral expression in Russian.

**Prerequisite:** RUSS 32211.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**RUSS 42230 ADVANCED TRANSLATION PRACTICE: RUSSIAN (ELR) (WIC) 3 Credit Hours**

Theory and practice course that discusses translation theory and emphasizes Russian-to-English translation of selected texts in business, technology, medicine and law.

**Prerequisite:** RUSS 32231.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Experiential Learning Requirement, Writing Intensive Course

**RUSS 42240 BUSINESS AND SPECIAL TEXTS: RUSSIAN 3 Credit Hours**

(Slashed with RUSS 52240) Survey of the typical text types of business in the Russian culture and language. Practice sessions focus on reading and understanding specialized texts and on the translation and composition of selected special texts in Russian.

**Prerequisite:** RUSS 32211.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**RUSS 42351 SURVEY OF RUSSIAN AND SOVIET LITERATURE 4 Credit Hours**

(Slashed with RUSS 52351) Introduces students to the major movements and authors of Russian, Soviet and post-Soviet literature, beginning with Karamzin and ending with Boris Akunin.

**Prerequisite:** 6 credit hours of upper-division Russian courses (RUSS 30000 and 40000 levels).

**Schedule Type:** Lecture

**Contact Hours:** 4 lecture

**Grade Mode:** Standard Letter

**RUSS 42399 RESEARCH PROJECT IN RUSSIAN LANGUAGE AND LITERATURE (ELR) 3 Credit Hours**

(Repeatable for credit) Thesis or other independent study.

**Prerequisite:** 6 credit hours of 40000-level Russian (RUSS) courses and special approval.

**Schedule Type:** Senior Project/Honors Thesis

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter-IP

**Attributes:** Experiential Learning Requirement

**RUSS 52211 ADVANCED COMPOSITION AND CONVERSATION 3 Credit Hours**

(Slashed with RUSS 42211) Advanced practice in written and oral expression in Russian.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**RUSS 52240 BUSINESS AND SPECIAL TEXTS:RUSSIAN 3 Credit Hours**

(Slashed with RUSS 42240) Survey of the typical text of business in the Russian culture and language. Practice sessions focus on reading and understanding specialized texts and on the translation and composition of selected special texts in Russian.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**RUSS 52351 SURVEY OF RUSSIAN AND SOVIET LITERATURE 4 Credit Hours**

(Slashed with RUSS 42351) Introduces students to the major movements and authors of Russian, Soviet and post-Soviet literature, beginning with Karamzin and ending with Boris Akunin.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 4 lecture

**Grade Mode:** Standard Letter

**RUSS 62010 THE PRACTICE OF RUSSIAN TRANSLATION 2 Credit Hours**

Students apply linguistic and communication science concepts to case studies of language mediation.

**Prerequisite:** Graduate standing.

**Corequisite:** TRST 60010.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**RUSS 62091 SEMINAR 3 Credit Hours**

(Repeatable for credit) Content varies per course offering; topic announced in schedule of classes.

**Prerequisite:** Graduate standing.

**Schedule Type:** Seminar

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**RUSS 62098 RESEARCH 1-15 Credit Hours**

(Repeatable for credit) Research carried out by the student under the supervision of a faculty member. Credits earned applied toward degree requirements if department approves.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Research

**Contact Hours:** 1-15 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**RUSS 62240 LITERARY AND CULTURAL TRANSLATION 3 Credit Hours**

Translation of documents from a variety of literary and cultural sources, including literature, expository and journalistic prose, scholarly treatises and essays. Translation into Russian will also be emphasized.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**RUSS 62250 COMMERCIAL, LEGAL AND DIPLOMATIC TRANSLATION 3 Credit Hours**

An introduction to methods and resources for the translation of commercial, economic, financial, legal, diplomatic and governmental documents.

**Prerequisite:** TRST 60010; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**RUSS 62251 SCIENTIFIC, TECHNICAL AND MEDICAL TRANSLATION 3 Credit Hours**

An introduction to methods and resource for the translation of scientific, technical, industrial and medical documents.

**Prerequisite:** TRST 60010; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**RUSS 62979 CASE STUDY IN TRANSLATION 3 Credit Hours**

Students are responsible for a major translation and a terminology glossary, as well as a critical analysis of the source text, the problems encountered during the translation process and the strategies used to solve them.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Satisfactory/Unsatisfactory

**Spanish (SPAN)****SPAN 18201 ELEMENTARY SPANISH I 4 Credit Hours**

An introduction to the Spanish language in the context of Hispanic cultures.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 4 lecture

**Grade Mode:** Standard Letter

**SPAN 18202 ELEMENTARY SPANISH II 4 Credit Hours**

A continuation of the introduction to the Spanish language in the context of Hispanic cultures.

**Prerequisite:** SPAN 18201.

**Schedule Type:** Lecture

**Contact Hours:** 4 lecture

**Grade Mode:** Standard Letter

**SPAN 18301 SPANISH FOR HEALTH CARE I 4 Credit Hours**

Introduction to the Spanish language in the context of health care situations, tasks and terminology and Hispanic cultures.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 4 lecture

**Grade Mode:** Standard Letter

**SPAN 18302 SPANISH FOR HEALTH CARE II 4 Credit Hours**

A continuation of the introduction to the Spanish language in the context of health care situations, tasks and terminology and Hispanic cultures.

**Prerequisite:** SPAN 18301.

**Schedule Type:** Lecture

**Contact Hours:** 4 lecture

**Grade Mode:** Standard Letter

**SPAN 28201 INTERMEDIATE SPANISH I 3 Credit Hours**

A continuation of the development of listening, speaking, reading and writing skills using a variety of material on the Spanish language in the context of Hispanic cultures.

**Prerequisite:** SPAN 18202.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** TAG Foreign Language

**SPAN 28202 INTERMEDIATE SPANISH II 3 Credit Hours**

A continuation of the development of listening, speaking, reading and writing skills using a variety of material on the Spanish language in the context of Hispanic cultures and specific areas of study like culture, business, justice, etc. Credit may be given for SPAN 28202 or SPAN 28206 but not for both.

**Prerequisite:** SPAN 28201.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** TAG Foreign Language

**SPAN 28206 SPANISH READING FOR COMPREHENSION 3 Credit Hours**

Further develops skills and techniques for understanding written Spanish; conducted in English. Credit not applicable toward Spanish major or minor. Students may obtain credit in SPAN 28202 or SPAN 28206 but not both.

**Prerequisite:** SPAN 28201.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPAN 38211 SPANISH GRAMMAR AND COMPOSITION 3 Credit Hours**

This course focuses on progressively increasing grammatical competence to communicate in writing through the development of skills to describe, narrate, expose and create arguments on general interest, and academic topics.

**Prerequisite:** SPAN 28202 with a minimum C grade.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPAN 38213 SPANISH READING AND CONVERSATION 3 Credit Hours**

This course will provide continuous opportunities to practice Spanish based on selected non-literary and literary readings (such as poems, essays, short stories, theater, and short novels) and film. The readings and films cover diverse topics, such as art, politics, history, culture, and literature. We will concentrate on building vocabulary, reading skills, speaking and listening skills, reviewing important grammatical structures, and practicing the analysis of literature, culture, and current events.

**Prerequisite:** SPAN 28202 with a minimum C- grade.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPAN 38215 SPANISH PHONETICS AND DICTION 3 Credit Hours**

Study of the modern Spanish language sounds and practical application through extensive interactive listening and speaking activities addressing various Hispanic culture.

**Prerequisite:** SPAN 28202 with a minimum C grade.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPAN 38231 TRANSLATION PRACTICE: SPANISH 1 Credit Hour**

Translation practice with Spanish texts using principles and techniques learned in the lecture class. To be taken concurrently with TRST 30230.

**Corequisite:** TRST 30230.

**Schedule Type:** Lecture

**Contact Hours:** 1 lecture

**Grade Mode:** Standard Letter

**SPAN 38240 CONVERSATION FOR BUSINESS AND SPECIAL PURPOSES: SPANISH 3 Credit Hours**

Introduction to the special vocabulary of business and other special subject areas; introduces the concept of language for special purposes and emphasizes the use of special vocabularies in conversations in business and other settings.

**Prerequisite:** SPAN 38213.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPAN 38303 MEDICAL SPANISH TRANSLATION AND INTERPRETING 3 Credit Hours**

An introduction to medical translation and interpreting, also known as healthcare translation and interpreting. Sociolinguistic, legal, and pragmatic dimensions of translation, cross-cultural health literacy, intercultural competency, text analysis, common medical text types and basic terminology; text production in English of Spanish medical documents, strategies of research, documentation and transfer. The rudiments of interpreting in health care environments; protocol, ethics, and credentialing in the language mediation industry; public health policy as it affects Latino and Latina populations. Spanish-English, English-Spanish language combination. Note: translation refers to written texts; interpreting to spoken language.

**Prerequisite:** SPAN 28202.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPAN 38330 EARLY SPANISH LITERATURE (ELR) (WIC) 3 Credit Hours**

Outline of development, reading of representative works to 1700.

**Prerequisite:** SPAN 38211.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Experiential Learning Requirement, Writing Intensive Course

**SPAN 38331 RECENT SPANISH LITERATURE (ELR) (WIC) 3 Credit Hours**

Outline of development, reading of representative works 1700 present.

**Prerequisite:** SPAN 38211.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Experiential Learning Requirement, Writing Intensive Course

**SPAN 38334 EARLY SPANISH-AMERICAN LITERATURE (ELR) (WIC) 3 Credit Hours**

Outline of development, reading of representative works including indigenous literature, 1492-1882.

**Prerequisite:** SPAN 38211.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Experiential Learning Requirement, Writing Intensive Course

**SPAN 38335 RECENT SPANISH-AMERICAN LITERATURE (ELR) (WIC) 3 Credit Hours**

Outline of the development of modern Spanish-American literature (1882 to the present). Reading of representative works.

**Prerequisite:** SPAN 38211.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Experiential Learning Requirement, Writing Intensive Course

**SPAN 38421 CIVILIZATION OF SPAIN 3 Credit Hours**

General survey of evolution of Spanish civilization from antiquity to present day.

**Prerequisite:** SPAN 38211.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter



**SPAN 38424 CULTURE AND CIVILIZATION OF LATIN AMERICA 3 Credit Hours**

This course focuses on a study of the historical and cultural development of Latin America, with emphasis on Spanish America, as reflected in its geography, history, art, political and social institutions encompassing from Pre-Hispanic times to the present.

**Prerequisite:** SPAN 38211 or SPAN 38213.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPAN 48093 VARIABLE TITLE WORKSHOP IN SPANISH 1-6 Credit Hours**

(Repeatable for credit) Workshops individually designed to provide instruction and training in specific areas of Hispanic studies.

**Prerequisite:** Departmental permission.

**Schedule Type:** Workshop

**Contact Hours:** 1-6 other

**Grade Mode:** Satisfactory/Unsatisfactory

**SPAN 48095 SELECTED TOPICS IN SPANISH 3 Credit Hours**

(Repeatable for a maximum of 9 credit hours) Topic announced in Schedule of Classes.

**Prerequisite:** 9 hours above 20000-level of Spanish courses.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPAN 48096 INDIVIDUAL INVESTIGATION 1-3 Credit Hours**

(Repeatable for a maximum of 6 credit hours) Allows the advanced, serious student to carry out research study project on Spanish literature language or culture. Prior approval of supervising faculty member department required.

**Prerequisite:** Special approval.

**Schedule Type:** Individual Investigation

**Contact Hours:** 1-3 other

**Grade Mode:** Standard Letter-IP

**SPAN 48215 ADVANCED SPANISH COMPOSITION AND CONVERSATION 3 Credit Hours**

Focuses on description, summary, narration, exposition and argumentation on topics dealing with diverse areas of Hispanic culture as presented through literary and non-fiction texts.

**Prerequisite:** SPAN 38211 and SPAN 38213; and one of SPAN 38330 or SPAN 38331 or SPAN 38334 or SPAN 38335; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPAN 48216 CONTEMPORARY HISPANIC CULTURE 3 Credit Hours**

A study of selected sociological, political, cultural or economic issues in the contemporary Hispanic world.

**Prerequisite:** 6 hours from 30000-level Spanish courses.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPAN 48230 ADVANCED TRANSLATION PRACTICE: SPANISH (ELR) (WIC) 3 Credit Hours**

Theory and practice course that discusses translation theory and emphasizes Spanish-to-English translation of selected texts in business, technology, medicine and law.

**Prerequisite:** SPAN 38231.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Experiential Learning Requirement, Writing Intensive Course

**SPAN 48240 BUSINESS AND SPECIAL TEXTS: SPANISH 3 Credit Hours**

Survey of the typical text types of business in the Spanish culture and language. Practice sessions focus on reading and understanding specialized texts and on the translation and composition of selected special texts in Spanish.

**Prerequisite:** SPAN 38211.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPAN 48325 IDENTITY, POLITICS AND GENDER IN PUERTO RICAN FICTION 3 Credit Hours**

(Slashed with SPAN 58325) This course focuses on critical analyses of a diverse corpus of literary pieces written by prominent Puerto Rican authors. It addresses the following topics: the jíbarao identity vis a vis the political and cultural practices of americanización (Americanization), the migratory waves from the countryside to San Juan and the United States, and constructs of gender and LGBTQ identity articulated in the literary discourse.

**Prerequisite:** SPAN 38421 or SPAN 38424.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPAN 48376 CONTEMPORARY SPANISH-AMERICAN SHORT STORY 3 Credit Hours**

The development of the Spanish-American short story from 1917 to the present.

**Prerequisite:** 6 hours from SPAN 38330 and SPAN 38331 and SPAN 38334 and SPAN 38335.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPAN 48378 U.S. LATINA/O WRITERS 3 Credit Hours**

The course focuses on a representative selection of literary pieces in Spanish by recent U.S. Latino writers developing oral and listening skills in Spanish and strengthening critical thinking on various cultural and literary matters.

**Prerequisite:** SPAN 38211 and SPAN 38213; and one of the following: SPAN 38330 or SPAN 38331 or SPAN 38334 or SPAN 38335.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPAN 48422 EARLY SPANISH-AMERICAN DISCOURSE 3 Credit Hours**

This course provides a critical analysis of cultural and literary issues on texts dealing with early colonial Spanish-American expression.

**Prerequisite:** SPAN 38213 and SPAN 38334.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPAN 48491 SEMINAR IN MODERN SPAIN 3 Credit Hours**

(Slashed with SPAN 58491) In-depth study of modern Spain, including themes such as art, literature, film, history, politics, social movements, and other manifestations of modern Spain. Historical and political topics such as the Spanish transition to democracy, the post-transition disillusion, neoliberalism in Spain, Nationalisms of the periphery, and social movements like the 'Indignados' or 15M may be covered. Artistic and cultural movements and genres such as 'La movida Madrileña,' the popular novel, and the detective novel and film noir may also be covered.

**Prerequisite:** Minimum C grade in three SPAN 30000-level (or higher) courses.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPAN 58095 SELECTED TOPICS IN SPANISH 3 Credit Hours**

(Repeatable for a maximum of 15 credit hours) Topic to be announced in semester schedule of classes.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPAN 58216 CONTEMPORARY HISPANIC CULTURE 3 Credit Hours**

A study of selected sociological, political, cultural or economic issues in the contemporary Hispanic world.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPAN 58325 IDENTITY, POLITICS AND GENDER IN PUERTO RICAN FICTION 3 Credit Hours**

(Slashed with SPAN 48325) This course focuses on critical analyses of a diverse corpus of literary pieces written by prominent Puerto Rican authors. It addresses the following topics: the jíbaro identity vis a vis the political and cultural practices of americanización (Americanization), the migratory waves from the countryside to San Juan and the United States, and constructs of gender and LGBTQ identity articulated in the literary discourse.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPAN 58376 CONTEMPORARY SPANISH-AMERICAN SHORT STORY 3 Credit Hours**

The development of the Spanish-American short story from 1917 to the present.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPAN 58378 U.S. LATINA/O WRITERS 3 Credit Hours**

The course focuses on a representative selection of literary pieces in Spanish by recent U.S. Latino writers developing oral and listening skills in Spanish and strengthening critical thinking on various cultural and literary matters.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPAN 58422 EARLY SPANISH-AMERICAN DISCOURSE 3 Credit Hours**

This course provides a critical analysis of cultural and literary issues on texts dealing with early colonial Spanish-American expression.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPAN 58491 SEMINAR IN MODERN SPAIN 3 Credit Hours**

(Slashed with SPAN 48491) In-depth study of late 20th and early 21st-century Spain, including themes such as art, literature, film, history, politics, social movements, and other manifestations of contemporary Spain. Historical and political topics such as the Spanish transition to democracy, the post-transition disillusion, neoliberalism in Spain, Nationalisms of the periphery, and social movements like the 'Indignados' or 15M may be covered. Artistic and cultural movements and genres such as 'La movida Madrileña,' the popular novel, and the detective novel and film noir may also be covered.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPAN 68010 THE PRACTICE OF SPANISH TRANSLATION 2 Credit Hours**

Students apply linguistic and communication science concepts to case studies of language mediation.

**Prerequisite:** Graduate standing.

**Corequisite:** TRST 60010.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**SPAN 68093 VARIABLE TITLE WORKSHOP IN SPANISH 1-6 Credit Hours**

(Repeatable for credit) Workshops individually designed to provide instruction and training in specific areas of Spanish studies. S/U graded.

**Prerequisite:** Permission.

**Schedule Type:** Workshop

**Contact Hours:** 1-6 other

**Grade Mode:** Satisfactory/Unsatisfactory

**SPAN 68095 SELECTED TOPICS 3 Credit Hours**

(Repeatable for credit) Selected topics on Spanish literature or linguistics.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPAN 68098 RESEARCH 1-15 Credit Hours**

(Repeatable for credit) Research or individual investigation for master's level graduate students. Credits earned applied toward degree requirements if department approves.

**Prerequisite:** Special approval.

**Schedule Type:** Research

**Contact Hours:** 1-15 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**SPAN 68191 SEMINAR IN FICTION 3 Credit Hours**

(Repeatable for credit)Intensive study of one or two major writers or of a movement in the history of Spanish and Spanish-American fiction.

**Prerequisite:** Graduate standing.

**Schedule Type:** Seminar

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**SPAN 68199 THESIS I 2-6 Credit Hours**

Thesis students must register for a total of 6 hours, 2 to 6 hours in a single semester distributed over several semesters if desired.

**Prerequisite:** Graduate standing.

**Schedule Type:** Masters Thesis

**Contact Hours:** 2-6 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**SPAN 68215 ADVANCED SPANISH COMPOSITION AND CONVERSATION 3 Credit Hours**

Focuses on description, summary, narration, exposition and argumentation on topics dealing with diverse areas of Hispanic culture as presented through literary and non-fiction texts.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPAN 68231 TRANSLATION INTO SPANISH 3 Credit Hours**

Provides advanced intensive practice in the translation of a variety of texts into Spanish. Translation issues and appropriate strategies are identified. Also provides practice in the evaluation of translations, the identification of professional issues, and an advanced review of linguistic and grammatical aspects of Spanish as they apply to translation.

Class meetings are conducted in a workshop format based on weekly assignments of readings and translation exercises.

**Prerequisite:** TRST 60010 and SPAN 68010; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPAN 68240 LITERARY AND CULTURAL TRANSLATION 3 Credit Hours**

Translating documents from a variety of literary and cultural sources, including literature, expository and journalistic prose, scholarly treatises and essays. Translation into Spanish will also be emphasized.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPAN 68250 COMMERCIAL, LEGAL AND DIPLOMATIC TRANSLATION 3 Credit Hours**

An introduction to methods and resources for the translation of commercial, economic financial legal diplomatic and governmental documents.

**Prerequisite:** TRST 60010; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPAN 68251 SCIENTIFIC, TECHNICAL AND MEDICAL TRANSLATION 3 Credit Hours**

An introduction to methods and resources for the translation of scientific, technical, industrial and medical documents.

**Prerequisite:** TRST 60010; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPAN 68299 THESIS II 2 Credit Hours**

Thesis students must continue registration each semester until all degree requirements are met.

**Prerequisite:** SPAN 68199; and graduate standing.

**Schedule Type:** Masters Thesis

**Contact Hours:** 2 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**SPAN 68391 SEMINAR IN THEATRE 3 Credit Hours**

(Repeatable for credit)Intensive study of one or two major dramatists or movements in the history of Spanish and Spanish-American theatre.

**Prerequisite:** Graduate standing.

**Schedule Type:** Seminar

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**SPAN 68591 SEMINAR IN POETRY 3 Credit Hours**

(Repeatable for credit)Intensive study of one or two major poets or of a movement in the history of Spanish and Spanish-American poetry.

**Prerequisite:** Graduate standing.

**Schedule Type:** Seminar

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**SPAN 68979 CASE STUDY IN TRANSLATION 3 Credit Hours**

Students will be responsible for a major translation and a terminology glossary as well as a critical analysis of the source text, the problems encountered during the translation process and the strategies used to solve them.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Satisfactory/Unsatisfactory

**Translation Studies (TRST)****TRST 20009 MULTILINGUAL INFORMATION LIFECYCLE 3 Credit Hours**

Introduction to the multilingual information cycle, including general technological issues, text preparation, translation in markup languages, computer-assisted translation tools and multilingual information flow for multilingual and multicultural work. Course is taught in English.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**TRST 30230 APPROACHES TO TRANSLATION 3 Credit Hours**

Introduction to foreign language translation. Introduces concepts, resources, principles and techniques of text analysis and translation strategies applicable to various types of texts.

**Prerequisite:** Junior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**TRST 30330 CROSS-LANGUAGE MEDIATION 3 Credit Hours**

An exploration of textual and contextual factors impacting cross-language mediation.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**TRST 50031 PROFESSIONAL EDITING FOR TRANSLATORS 3 Credit Hours**

Provides practical instruction in the editing of translated texts representing a variety of text types. Course covers the skills and techniques that are required for all stages of the editing process and using the best practices of professional translation. Topics include the stages of editing, from rough translation to finished draft; electronic tools for multilingual translation editing; translation style guides; and pre- and post-editing of machine translation. Interactive lecture and workshop formats.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**TRST 60001 GRADUATE RESEARCH AND WRITING IN TRANSLATION STUDIES 3 Credit Hours**

Individual instruction and assistance with problems encountered in academic research and writing in translation.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**TRST 60009 DOCUMENTS IN MULTILINGUAL CONTEXTS 2 Credit Hours**

An in-depth study of the role of documents in the multilingual information cycle as manifested in word-processing, desktop publishing and web-based environment.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**TRST 60010 THEORY OF TRANSLATION AND INTERPRETING 2 Credit Hours**

Introduction to the theoretical bases and methods of language mediation.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**TRST 60011 TERMINOLOGY AND COMPUTER APPLICATIONS IN TRANSLATION 3 Credit Hours**

Practice-oriented introduction to terminology management and translation tools, such as term extraction, translation memory and machine translation.

**Prerequisite:** TRST 60009; and graduate standing.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**TRST 60012 SOFTWARE LOCALIZATION 3 Credit Hours**

Introduction to localization, the translation and adaptation of products, including software and web pages for sale or dissemination in specific target-language markets. Course introduces the basic concepts and techniques of localization and provides a hands-on introduction to relevant computer software.

**Prerequisite:** TRST 60011 with a minimum B grade; and graduate standing.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**TRST 60013 LANGUAGE PROJECT MANAGEMENT 3 Credit Hours**

Introduction to project management in the language industry. Course covers the body of knowledge and skills, including the use of project management software that is required to perform the duties of a translation or localization project manager. Beginning with an overview of the language industry, the course examines the language industry project.

**Prerequisite:** TRST 60011 with a minimum B grade; and graduate standing.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**TRST 60031 INTERCULTURAL COMMUNICATION IN THE LANGUAGE INDUSTRY 3 Credit Hours**

The role and impact of intercultural communication models, theories and approaches in shaping language industry dynamics.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**TRST 60095 SPECIAL TOPICS IN TRANSLATIONS STUDIES 1-3 Credit Hours**

(Repeatable for a maximum of 12 credit hours) Content varies with the topic, which may include any aspect of translation studies (practical or theoretical). Topics are taught in English and some topics may be team taught.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 1-3 lecture

**Grade Mode:** Standard Letter

**TRST 60098 RESEARCH IN TRANSLATION STUDIES 1-15 Credit Hours**

(Repeatable for a maximum of 15 credit hours) Research for students in the master's degree in translation. Credits earned may be applied toward degree with department approval.

**Prerequisite:** Graduate standing.

**Schedule Type:** Research

**Contact Hours:** 1-15 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**TRST 60298 APPLIED TRANSLATION RESEARCH 1-3 Credit Hours**

(Repeatable for a maximum of 3 credit hours) Research experience in translation or interpreting in a corporate, translation bureau or freelance setting, supervised by a faculty member.

**Prerequisite:** TRST 60010; and graduate standing.

**Schedule Type:** Research

**Contact Hours:** 1-3 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**TRST 70001 APPLIED LINGUISTICS AND TRANSLATION INFORMATICS 3 Credit Hours**

Advanced topics in applied linguistics, including corpus and text linguistics as they apply to translation. Advanced topics in translation informatics in multilingual environments.

**Prerequisite:** TRST 60011; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**TRST 70002 THE LANGUAGE INDUSTRY 3 Credit Hours**

Study of the socio-economic context of professional translation and the language services business sector. Includes in-depth study of the language industry drawing on industry analysis and business case studies.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**TRST 70003 TERMINOLOGY STUDIES 3 Credit Hours**

Advanced topics in terminology, lexicography, ontology and knowledge organization systems.

**Prerequisite:** TRST 60011; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**TRST 70004 TRANSLATION PEDAGOGY 3 Credit Hours**

Teaching methods and curriculum design for translation programs.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**TRST 70005 CURRENT TRENDS IN TRANSLATION STUDIES 3 Credit Hours**

A critical examination of the main trends in translation theory and an exploration of emerging developments in translation studies.

**Prerequisite:** TRST 60010; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**TRST 70006 EMPIRICAL METHODS FOR TRANSLATION STUDIES 3 Credit Hours**

Study of the methods and research designs used to conduct empirical research in translation, with an emphasis on experimental design of cross-language tasks; the use and analysis of bilingual verbal protocols; the application of new methods, such as keystroke-logging and eye-tracking; and the particular empirical and methodological issues involved in cross-language research data-gathering and statistical analysis.

**Prerequisite:** Translation studies major; and doctoral standing.

**Schedule Type:** Seminar

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**TRST 70007 CORPORA IN TRANSLATION 3 Credit Hours**

Exploration of corpus-based applications in translation studies research and the practice of translation. Competence in utilizing translation-oriented corpus-based tools and corpus building will be fostered.

**Prerequisite:** Translation studies major; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**TRST 70008 TRANSLATION AND COGNITION 3 Credit Hours**

Study of foreign language translation and interpreting from a cognitive science perspective. Includes discussion of current empirical research; application of selected models of cognition to problems in translation studies; and research design in translation process research.

**Prerequisite:** Translation studies major; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**TRST 80091 SEMINAR IN TRANSLATION STUDIES 3 Credit Hours**

(Repeatable for credit) Seminar for doctoral students to present and discuss research related to specific areas of translation studies. May be taken for a total of 6 credit hours, either alone or in combination with TRST 80191.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Seminar

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**TRST 80098 RESEARCH IN TRANSLATION STUDIES 1-15 Credit Hours**

(Repeatable for credit) Research for doctoral students. Credits earned may be applied toward degree with department approval.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Research

**Contact Hours:** 1-15 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**TRST 80191 SEMINAR IN TRANSLATION INFORMATICS 3 Credit Hours**

(Repeatable for credit) Seminar for doctoral students to present and discuss research related to specific areas of translation informatics. May be taken for a total of 6 credit hours, either alone or in combination with TRST 80191.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Seminar

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**TRST 80199 DISSERTATION I 15 Credit Hours**

(Repeatable for credit) Doctoral dissertation. Registration in at least two semesters is required the first of which will be the semester in which dissertation work begins and continuing until 30 hours are completed.

**Prerequisite:** Doctoral standing; and special approval.

**Schedule Type:** Dissertation

**Contact Hours:** 15 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**TRST 80299 DISSERTATION II 15 Credit Hours**

(Repeatable for credit) Continuing registration required of doctoral students who have completed the initial 30 hours of dissertation, continuing until all degree requirements are met.

**Prerequisite:** TRST 80199; and doctoral standing.

**Schedule Type:** Dissertation

**Contact Hours:** 15 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP



## Department of Pan-African Studies

### Pan-African Studies (PAS)

#### PAS 10101 ELEMENTARY KISWAHILI I 4 Credit Hours

This course is an introduction to Kiswahili in which students will learn the essentials of speaking, reading and writing the most extensively used language in East Africa.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 4 lecture

**Grade Mode:** Standard Letter

#### PAS 10102 ELEMENTARY KISWAHILI II 4 Credit Hours

Continuation of PAS 10101, aimed at advancing student knowledge and communication skills in Kiswahili by introducing Kiswahili literature, short narratives, proverbs, folktales.

**Prerequisite:** PAS 10101.

**Schedule Type:** Lecture

**Contact Hours:** 4 lecture

**Grade Mode:** Standard Letter

#### PAS 15200 INTRODUCTION TO WEST AFRICAN CULTURES 3 Credit Hours

Drawing on history, literature and social anthropology, students learn key events and places in W. Africa from the 9th century to the 19th century, covering the Trans-Atlantic Slave trade and the development of long distance networks, including Andalusian Spain, the trans-Saharan trade, the expulsion of Jews and Moors from Spain, state formation in W. Africa, and the role of Saharan–Savannah relations in the expansion of the Atlantic Slave Trade and the movement of European and African peoples to the Americas. The development of this Atlantic world assured the economic centrality of W. Europe and eventually the US, due to the immense transfer of labor and skills from W. Africa.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

#### PAS 20001 INTRODUCTION TO PAN-AFRICAN STUDIES 3 Credit Hours

This course uses an interdisciplinary approach to introduce students to the discipline and field of Pan-African Studies. Using primary source materials from literature, film and various art forms, students will be exposed to concepts, critical issues, events and major thinkers that have shaped the global Black world. Emphasis will be placed on the relationship between Peoples of African descent, Latin and Indigenous Peoples. Selected course materials represent the ways in which Peoples of African descent have demonstrated resiliency, activism and agency.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

#### PAS 20101 KISWAHILI III 3 Credit Hours

Continuation of Kiswahili II, aimed at developing knowledge competence and recognition of Kiswahili usage in all forms of Kiswahili literature.

**Prerequisite:** PAS 10102.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

#### PAS 20102 KISWAHILI IV 3 Credit Hours

Continuation of Kiswahili III, aimed at developing knowledge, competence and recognition of Kiswahili usage in all forms of Kiswahili literature.

**Prerequisite:** PAS 20101.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

#### PAS 20200 RECOVERING THE PAST: KENT TO MEMPHIS (ELR) 3 Credit Hours

Examines relevance of John Brown, Frederick Loudin and Fisk Jubilee Singers, and Ida B. Wells anti-lynching campaign today. Students travel to local Brown and Loudin sites, Harper's Ferry and Memphis.

**Prerequisite:** None.

**Schedule Type:** Field Experience, Lecture

**Contact Hours:** 2 lecture, 1 other

**Grade Mode:** Standard Letter

**Attributes:** Experiential Learning Requirement

#### PAS 20300 BLACK IMAGES 3 Credit Hours

Examines the historical origins of racial images and anti-black perceptions through newspapers, magazines, songs, plays, literature, textbooks, radio, television, films, comic books, etc. and the role of these images in American culture past and present.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

#### PAS 22000 CREATIVE WRITING IN THE BLACK WORLD 3 Credit Hours

Explores the major aesthetic and cultural issues that have historically shaped creative writing in the black world and begins by exploring the African Griot tradition. Students learn about the African-American tradition in literature as an organic part of the larger Pan-African world. Students are expected to write, perform, critique and produce original works in the modes and performance styles of the global African world.

**Prerequisite:** ENG 11011 or HONR 10197.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

#### PAS 22101 AFRICAN AMERICAN VISUAL ARTISTS 3 Credit Hours

An Afrocentric survey of visual and aural artistry, course examines cultural context and perspectives, mediums of expression, form, style, content and patronage of African American artists from 1800.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

#### PAS 22200 INTRODUCTION TO THE AFRICAN ARTS 3 Credit Hours

Investigation of function of creative forms of artistic expression particular to experiences of Pan-African community at home and abroad.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PAS 23001 BLACK EXPERIENCE I: BEGINNINGS TO 1865 (DIVG) (KHUM) 3 Credit Hours**

Study and analysis of the African experience prior to, and following the arrival of Africans in the New World. Emphasis on North and South America, Africa and Caribbean.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Diversity Global, Kent Core Humanities, Transfer Module Humanities

**PAS 23002 BLACK EXPERIENCE II: 1865 TO PRESENT (DIVD) (KHUM) 3 Credit Hours**

Covers the Black Experience from 1865 to the present, including events, ideas and persons in Africa, North and South America, and the Caribbean.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Diversity Domestic, Kent Core Humanities, Transfer Module Humanities

**PAS 23095 SPECIAL TOPICS IN PAN-AFRICAN LITERATURE AND COMMUNICATION SKILLS 1-4 Credit Hours**

(Repeatable for a maximum of 6 credit hours) Introduction to a current and specialized topic in Pan-African Literature and/or communication skills.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 1-4 lecture

**Grade Mode:** Standard Letter

**PAS 23310 NATIVE AMERICAN STUDIES 3 Credit Hours**

Study and analysis of Native American history, sovereignty and civil rights. Ensures an understanding of self-determination in the context of colonization, decolonization and neocolonization, through the use of Native American literature, philosophy, politics and other cultural outlets. Being that we all live in a broader community, students also examine historical and contemporary relationships with the African American community and other ethnic communities in the US.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PAS 24407 CARIBBEAN STUDIES (DIVG) 3 Credit Hours**

Focus on people of African descent in the West Indies and their way of life for the cultural contributions made to Pan-African communities.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Diversity Global

**PAS 25200 EAST AFRICAN-KISWAHILI CULTURES 3 Credit Hours**

Students learn about the relationship between the Kiswahili language and the cultures of East African peoples, especially those in Malawi, Mozambique, Zaire, Zambia and Zimbabwe. This includes geographical, historical and sociological perspectives and an analysis of common cultural elements (music, literature, proverbs).

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PAS 26000 THE LEGACY OF SLAVERY 3 Credit Hours**

Examines the legacy of slavery through literature about the Reconstruction and Jim Crow periods; the writings of Douglass, Washington, DuBois and Garvey; the impact of slavery on modern African American culture; and an investigation of the reparations issue.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PAS 26010 THE BLACK REVOLUTION 3 Credit Hours**

Under the umbrella of Afrocentrism, this course examines black revolutionary thought in the U.S. from historical, political, sociological and philosophical perspectives; beginning with the advent of the slave trade, it emphasizes the tools, dynamics and strategies used to ensure the success of the black revolution, which is depicted as still ongoing today and having many implications and ramifications for the future.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PAS 30001 CULTURAL EXPRESSIONS I 3 Credit Hours**

Exploration of African creative endeavors and cultures through traditionally integrated forms of music, dance and song. Some emphasis on the study of design, color and fashion merged with family, food and environment, as well as traditional African societies.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PAS 30010 AFRICAN AND AFRICAN-AMERICAN PHILOSOPHIES (DIVD) 3 Credit Hours**

(Cross-listed with PHIL 31070) Exploration of philosophical issues in African and African-American or Black thought systems. Topics may include the examination of the issue of the existence of a Black philosophy, the nature of traditional African knowledge, beliefs about personhood, the basis and rationality of witchcraft or other metaphysical beliefs, communalism, the nature of Black moral and aesthetic values, and contemporary analysis of race, racism, slavery, civil rights, pan-Africanism, and criticisms of colonialism, Black development, democratic governance and social policies regarding Blacks. Students with Junior standing or above, who have not taken a Philosophy course, should contact the department for a prerequisite override.

**Prerequisite:** One course in philosophy.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Diversity Domestic

**PAS 30310 BLACK HOLLYWOOD 3 Credit Hours**

Examines the complexities of race relations in the film industry and the need for "Hollywood" and Black filmmakers to create films for mainstream audiences with a multitude of themes from the African American experience in America and around the world.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PAS 30311 HIP HOP: THE SOCIAL, POLICIAL AND ECONOMIC INFLUENCES 3 Credit Hours**

Examines the social, political and economic influences of and on Hip-hop and analyzes the historical and current relationships between Hip-hop and mainstream America, including the role that corporate America has played. In-depth history of the culture and major pioneers and contributors.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PAS 31092 PRACTICUM IN AFRICAN THEATRE ARTS (ELR) 3-6 Credit Hours**

(Repeatable for a maximum of 12 credit hours) Exposes students to fundamental techniques of stage through auditory, visual and physical participation. (Students are evaluated in performance and related theater activities.)

**Prerequisite:** None.

**Schedule Type:** Practical Experience

**Contact Hours:** 3-6 other

**Grade Mode:** Standard Letter

**Attributes:** Experiential Learning Requirement

**PAS 32001 AFRICAN-AMERICAN LITERATURE TO 1900 3 Credit Hours**

(Cross-listed with ENG 33010) Study of African-American literature from its beginning to 1900, including such writers as Wheatley, J. Hammon, Terry, B. Hammon, Jones, Marrant, Allen, Hall, Walker, Truth, Garnet, Douglass, Delany, Harper, Stewart, Turner, Jacobs, Keckley, Brown, Wilson, Griggs, Chesnutt and Dunbar.

**Prerequisite:** ENG 21011 or HONR 10297.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PAS 32002 MODERN AFRICAN-AMERICAN LITERATURE 3 Credit Hours**

Study of African-American literature from the early twentieth century to the present. The authors include Toomer, Hughes, Larsen, Wright, Baldwin, Hansberry, Jones, Lorde, Walker, Morrison, Mosley, Youngblood and Carter.

**Prerequisite:** ENG 21011 or HONR 10297.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PAS 32050 AFRICAN LITERATURES (DIVG) 3 Credit Hours**

(Cross-listed with ENG 33015) Examines works of major 20th-century African, African American and Caribbean writers and intellectuals.

Authors include Niane, Achebe, Emecheta, Prince, Hurston, Hughes, Cesaire, Senghor, Soyinka and many others.

**Prerequisite:** ENG 11011 or HONR 10197.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Diversity Global

**PAS 33100 AFRICAN AMERICAN FAMILY IN HISTORICAL PERSPECTIVES (DIVD) 3 Credit Hours**

Examines social, political, cultural and historical factors that have influenced the development of African-American family organization, from African shores through the American experience.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Diversity Domestic

**PAS 33101 AFRICAN AMERICAN HISTORY: SLAVERY TO FREEDOM 3 Credit Hours**

(Cross-listed with HIST 31080) Survey of African American history from the colonial period to 1877. Course provides a general knowledge of the social, political and cultural history of African Americans from colonial times to the end of the Reconstruction.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PAS 33110 THE BLACK WOMAN: HISTORICAL PERSPECTIVES (DIVD) 3 Credit Hours**

Course surveys the experiences of African-American women throughout various periods of history, and their roles in shaping the social, economic, political and cultural development of societies.

**Prerequisite:** Sophomore standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Diversity Domestic

**PAS 33120 THE BLACK MAN: HISTORICAL PERSPECTIVES 3 Credit Hours**

Focuses on various roles of the African American man within the context of the African experience and the African diaspora.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PAS 33130 GENDER AND SEXUALITY IN AFRICA AND THE AFRICAN DIASPORA 3 Credit Hours**

Using lectures, videos, discussions, readings and application this course explores ways in which gender and sexuality in Africa and the African Diaspora have and can be constructed, performed, articulated and researched. Attention is also paid to the existence of LGBTQ identities within the global black community.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PAS 33171 THE AFRICAN AMERICAN COMMUNITY (DIVD) 3 Credit Hours**

Explores problems of African-American communities: public administration, transportation, health, public finance, crime and justice, geography, black/demography and education.

**Prerequisite:** Sophomore standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Diversity Domestic

**PAS 33200 ANCIENT AFRICAN CIVILIZATIONS 3 Credit Hours**

Examines the history of ancient African civilizations and their contributions to world history.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PAS 33310 LATINOS, THE AFRICAN DIASPORA AND AMERICAN SOCIETY (DIVD) 3 Credit Hours**

Introduction to Latino minorities. Focus on Mexican-Americans, Puerto Ricans and Cubans and African influences on Latino culture.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Diversity Domestic

**PAS 34000 INTRODUCTION TO AFRICAN WORLD VIEW (DIVG) 3 Credit Hours**

Investigates traditional African cosmological world views and aesthetics in global Africa. Students who do not have prerequisites may request permission from instructor.

**Prerequisite:** PAS 23001 or PAS 23002.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Diversity Global

**PAS 34100 ISLAMIC WEST AFRICA 3 Credit Hours**

Familiarizes students with the cultural and historical specificities of Islamic communities in West Africa. Beginning with the introduction of Islam into West Africa in the eighth century, this course takes a multi-disciplinary point of view and covers contemporary political issues as well as historical topics. Students are provided the analytical tools and documentation to understand contemporary religious issues in West Africa and the diversity in expression of thought and practice of Islamic West Africa.

**Prerequisite:** Sophomore standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PAS 34200 BLACK MUSIC REVISITED 3 Credit Hours**

This is a survey course in the appreciation of, as well as an investigation into, that Great Black Tradition in Music. Students explore contemporary Black music from Africa into the New World and consider African world music from the Blues, Gospel, Jazz to Bebop, Rhythm & Blues, Hip Hop and Afro-Beat to Reggae. Students also learn the significance of local and individual artists.

**Prerequisite:** PAS 23001 or PAS 23002.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PAS 35100 BLACK SOCIAL AND POLITICAL THOUGHT 3 Credit Hours**

Study of the history and nature of social and political thought of African Americans including an overview of various movements and individuals, as well as their strategies and tactics, in the struggle for social change in the U.S. as it relates to black people.

**Prerequisite:** Junior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PAS 35200 AFRICAN SOCIAL AND POLITICAL SYSTEMS 3 Credit Hours**

An African-centered focus on traditional African institutions as these interact with the Jihad Movements, Western European incursion, the slave trade, colonialism, independence movements and contemporary issues.

**Prerequisite:** Junior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PAS 37000 ORAL AND WRITTEN DISCOURSES IN PAN-AFRICAN STUDIES (WIC) 3 Credit Hours**

Examines the spoken and written English of African-Americans with some emphasis on mastering consensus English writing skills required in upper-division PAS courses.

**Prerequisite:** ENG 21011 or HONR 10297.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Writing Intensive Course

**PAS 37001 THEORETICAL APPROACHES TO PAN-AFRICAN STUDIES 3 Credit Hours**

A critical analysis of the diverse approaches to and underlying principles of Pan-African Studies.

**Prerequisite:** Sophomore standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PAS 37010 RESEARCH METHODS IN PAN-AFRICAN STUDIES (ELR) 3 Credit Hours**

This course will expose students to the basic components of research methods in Pan-African studies utilizing multidisciplinary approaches.

**Prerequisite:** PAS 37000 and PAS 37001.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter-IP

**Attributes:** Experiential Learning Requirement

**PAS 37020 THE MODEL AFRICAN UNION (ELR) 3 Credit Hours**

Students examine role, structure and performance of the African Union in the search for solutions to key economic, social and political-security issues facing Africa. Students attend the annual meeting of the Model African Union Conference in Washington D.C., which is a simulation of proceedings of the African Union, augmented by briefings at African Embassies. Participants gain an understanding of the various determinants, capabilities and constraints shaping the domestic and foreign policies of African countries.

**Prerequisite:** Sophomore standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Experiential Learning Requirement

**PAS 37100 PAN-AFRICAN WOMEN'S LITERATURE (DIVG) 3 Credit Hours**

(Cross-listed with ENG 33013) Introduces students to literary works by African and Caribbean women.

**Prerequisite:** ENG 11011 or HONR 10197.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Diversity Global

**PAS 37150 THE UNDERGROUND RAILROAD 3 Credit Hours**

Examines the Underground Railroad and its impact as an American phenomenon.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PAS 37200 AFRICAN-AMERICAN WOMEN'S LITERATURE 3 Credit Hours**

(Cross-listed with ENG 33014) Introduces students to literary works by African-American women.

**Prerequisite:** ENG 11011 or HONR 10197.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PAS 40001 CULTURAL EXPRESSIONS II 3 Credit Hours**

This course continues Cultural Expressions I in greater depth and sophistication: Exploration of African creative endeavors and cultures through traditionally integrated forms of music, dance and song. Some emphasis on the study of design, color and fashion merged with family, food and environment, as well as traditional African societies.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PAS 40120 CONTEMPORARY ISSUES IN AFRICAN-AMERICAN EDUCATION 3 Credit Hours**

This course examines the interrelationship of contemporary issues and the education of people of African descent.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PAS 41192 PRACTICUM IN AFRICAN AMERICAN AFFAIRS (ELR) 1-12 Credit Hours**

(Repeatable for a maximum of 12 credit hours) Guided involvements in urban areas with large African-American populations to provide experience with community service, government agencies, public and private schools, non-profit organizations, etc.

**Prerequisite:** None.

**Schedule Type:** Practical Experience

**Contact Hours:** 3-36 other

**Grade Mode:** Standard Letter-IP

**Attributes:** Experiential Learning Requirement

**PAS 43095 SPECIAL TOPICS IN PAN-AFRICAN LITERATURE, ARTS AND CULTURES 3 Credit Hours**

(Repeatable for credit) Broadens upper division offerings in holistic study and performance in Pan-African literatures, arts and cultures.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PAS 43100 RACE, CLASS AND FEMINIST THOUGHT 3 Credit Hours**

Explores issues of race, class and gender through the lens of Black women and feminists of color.

**Prerequisite:** Junior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PAS 43200 MALCOLM AND MARTIN 3 Credit Hours**

A critical study of the major ideas and doctrines, including religious and theological beliefs, of Malcolm X and Martin L. King and their roles in American history.

**Prerequisite:** Junior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PAS 43395 SPECIAL TOPICS IN AFRICAN DIASPORA STUDIES 3 Credit Hours**

(Repeatable for a maximum of 12 credit hours) Study of selected topics related to people of African descent outside of the African continent including, but not limited to the Americas and Europe.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PAS 44095 SPECIAL TOPICS IN CONTEMPORARY AFRICA 3 Credit Hours**

(Repeatable for a total of 12 credit hours when topic varies) Study of selected topics related to contemporary Africa.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PAS 47091 SENIOR SEMINAR IN PAN-AFRICAN STUDIES (WIC) 3 Credit Hours**

Students prepare a capstone portfolio of their work to be presented to PAS faculty and develop individual topical PAS research papers for presentation before departmental faculty, students and general public.

**Prerequisite:** PAS 37010.

**Schedule Type:** Seminar

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**Attributes:** Writing Intensive Course

**PAS 47095 SPECIAL TOPICS IN THEORETICAL AND APPLIED RESEARCH 3 Credit Hours**

(Repeatable for a maximum of 12 credit hours) Selected topics in the intellectual, cultural, political and historical development of Pan-Africanism, its diverse theoretical approaches and multiple applications including the Organization of African Unity.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PAS 49093 VARIABLE TITLE WORKSHOP IN PAS 2-6 Credit Hours**

(Repeatable for credit)

**Prerequisite:** Special approval.

**Schedule Type:** Workshop

**Contact Hours:** 2-6 other

**Grade Mode:** Satisfactory/Unsatisfactory

**PAS 49095 SELECTED TOPICS 2,3 Credit Hours**

(Repeatable for credit) Scheduled topic announced. Intended to encourage further study in areas not treated adequately in standard courses. Offered irregularly by available or visiting faculty.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 2-3 lecture

**Grade Mode:** Standard Letter-IP



**PAS 49096 INDIVIDUAL INVESTIGATION 1-3 Credit Hours**  
(Repeatable once for credit) Research in areas of interest not available in departmental courses. Approval by faculty member or chairperson necessary prior to registration.

**Prerequisite:** Junior or senior standing.

**Schedule Type:** Individual Investigation

**Contact Hours:** 1-3 other

**Grade Mode:** Standard Letter-IP

## Department of Philosophy

### Philosophy (PHIL)

**PHIL 11001 INTRODUCTION TO PHILOSOPHY (DIVG) (KHUM) 3 Credit Hours**

An introduction to the diverse methods and subject matters in philosophy. Topics may include: What are the arguments for the existence of God? Do humans have free will? Can we know anything with certainty, and how do we know anything at all? Is what we see real, or might it be only an illusion? What makes a person a person - their mind, or their physical attributes? Is the mind the brain, or is it something else?

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Diversity Global, Kent Core Humanities, TAG Arts and Humanities, Transfer Module Humanities

**PHIL 11009 CRITICAL THINKING (KADL) 3 Credit Hours**

Critical thinking is essential to every aspect of life, whether reading a news report or editorial, examining a contract or other legal document, or entering into a debate. This course teaches the strategies of "cognitive self-defense" that allow students to see past false claims and avoid being deceived by misleading rhetorical strategies. The course also examines the role of argument in reasoning, including types of arguments and the ways in which mistakes in reasoning can lead us astray. Examples from everyday life illustrate the sorts of complex reasoning that are a crucial part of practical decision-making.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Kent Core Additional

**PHIL 21001 INTRODUCTION TO ETHICS (DIVG) (KHUM) 3 Credit Hours**

What makes an action morally right or morally wrong, and who gets to decide? Is ethics about performing actions that are morally right, or is it about being a virtuous person? This course examines at least three competing theories about ethics, including challenges to each theory. Students get to decide which theory they think is best, but every theory presents its own strengths and weaknesses.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Diversity Global, Kent Core Humanities, TAG Arts and Humanities, Transfer Module Humanities

**PHIL 21002 INTRODUCTION TO FORMAL LOGIC (KMCR) 3 Credit Hours**

This course is designed to sharpen students' reasoning skills and to help them better understand the structure of reasoning in general. To do this, it introduces students to some formal languages, such as Propositional Logic and Predicate Logic, that represent the logical structure of deductive reasoning. Unlike natural languages such as English, these formal languages allow students to focus on the general structure of different types of arguments, without discussing the content of any particular argument. Course covers both the construction of formal proofs in these languages, and translation between them and English. The study of formal logic contributes to effective and persuasive reasoning, not only in philosophy, but in any discipline or context. It also provides effective tools for evaluating the strength of English-language arguments. The skills that students acquire in this course are thus widely applicable in their personal, professional and academic lives.

**Prerequisite:** Minimum 35 ALEKS math score; or minimum 22 ACT math score; or minimum 530 SAT math score; or MATH 00022 with a minimum C grade.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Kent Core Mathematics and Critical Reasoning, Transfer Module Mathematics

**PHIL 30015 MEDICINE AND MORALITY 3 Credit Hours**

A philosophical exploration of at least three issues related to current medical practices, which may include ethical, religious, legal and clinical aspects. Topics may include: abortion, the use of genetic technologies, organ donation and transplantation, the use of human research subjects, or end-of-life decision-making.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PHIL 30025 ENVIRONMENTAL ETHICS (ELR) 3 Credit Hours**

A philosophical examination of ethical issues in environmental studies, including topics such as: animal ethics and the sources of our food; the value of nature and environmental aesthetics; sustainability and biodiversity; ecofeminism, social justice and radical ecology; and the human response to climate change. The course is designed to complement fields of study such as geography, environmental studies and biology. Prerequisite: Sophomore standing

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Experiential Learning Requirement

**PHIL 31001 ANCIENT GREEK PHILOSOPHY (WIC) 3 Credit Hours**

Examination of Greek thought from its inception through Plato, Aristotle, and later philosophers who were greatly influenced by them, but who also challenged their views. The ancients made the move from explanation based on myth to philosophical explanation - what did that move involve? How did the ancients answer questions about the nature of reality, what exists, the reliability of the senses, and the types of things in the world? How did they conceive of the good life?

**Prerequisite:** At least one of PHIL 11009 or PHIL 21002 or PHIL 41038; and at least one of PHIL 11001 or PHIL 21001.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Writing Intensive Course

**PHIL 31002 MEDIEVAL PHILOSOPHY (WIC) 3 Credit Hours**

Examination of issues in medieval thought, such as the existence and nature of God, the relationship between faith and reason, the problem of universals, and the nature of causality. Selections from philosophers such as Augustine, Boethius, Aquinas, Abelard, Avicenna, Duns Scotus, and William of Ockham.

**Prerequisite:** At least one of PHIL 11009 or PHIL 21002 or PHIL 41038; and at least one of PHIL 11001 or PHIL 21001.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Writing Intensive Course

**PHIL 31003 CONTINENTAL RATIONALISM (WIC) 3 Credit Hours**

Selections from rationalists such as Descartes, Spinoza, and Leibniz. The rationalists believed that the nature of reality was best understood using rational thought alone. What did they mean by this, and how did this belief shape their wider views of the world?

**Prerequisite:** At least one of PHIL 11009 or PHIL 21002 or PHIL 41038; and at least one of PHIL 11001 or PHIL 21001.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Writing Intensive Course

**PHIL 31004 BRITISH EMPIRICISM (WIC) 3 Credit Hours**

Selections from British Empiricists such as Locke, Berkeley, and Hume. The empiricists believed that reality was best understood using sensory evidence and observational methods. What do these human investigations tell us about the nature of properties, existence, and causation?

**Prerequisite:** At least one of PHIL 11009 or PHIL 21002 or PHIL 41038; and at least one of PHIL 11001 or PHIL 21001.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Writing Intensive Course

**PHIL 31005 GERMAN CRITICAL PHILOSOPHY (WIC) 3 Credit Hours**

Selections from philosophers such as Kant, Fichte, and others who began the movement known as German idealism. These thinkers emphasized a turn towards mind as constructing the world as it appears to us.

**Prerequisite:** At least one of PHIL 11009 or PHIL 21002 or PHIL 41038; and at least one of PHIL 11001 or PHIL 21001.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Writing Intensive Course

**PHIL 31006 NINETEENTH-CENTURY PHILOSOPHY (WIC) 3 Credit Hours**

Nineteenth-century philosophy is primarily a response to German idealism. Questions in social and political philosophy, as well as in metaphysics and epistemology, are considered in the works of philosophers such as Hegel, Schelling, Schopenhauer, Marx, Kierkegaard, and Nietzsche.

**Prerequisite:** At least one of PHIL 11009, 21002, 41038; and at least one of PHIL 11001, 21001.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Writing Intensive Course

**PHIL 31010 TWENTIETH-CENTURY PHILOSOPHY (WIC) 3 Credit Hours**

Selections from representatives of the most influential schools of thought within twentieth-century philosophy; for example, existentialists such as Sartre, pragmatists such as Dewey, logical positivists such as Carnap, phenomenologists such as Heidegger, and post-structuralists such as Derrida.

**Prerequisite:** At least one of PHIL 11009 or PHIL 21002 or PHIL 41038; and at least one of PHIL 11001 or PHIL 21001.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Writing Intensive Course

**PHIL 31020 AMERICAN PHILOSOPHY (WIC) 3 Credit Hours**

Selections from principal American philosophers from colonial times to the present, such as Emerson, Peirce, William James, Dewey, Quine, and Martin Luther King. American philosophy reflects the historic values of liberty, enterprise, industry, practicality, and diversity interwoven in the fabric of American life.

**Prerequisite:** At least one of PHIL 11009, 21002, 41038; and at least one of PHIL 11001, 21001.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Writing Intensive Course

**PHIL 31030 EXISTENTIALISM 3 Credit Hours**

Examination of the themes of existentialism, which include absurdity, freedom, and the individual's relationship to the world. Philosophers studied may include Sartre, Kierkegaard, Nietzsche, Camus, de Beauvoir, Ortega y Gasset, Marcel, and Tillich. Students with junior standing or above, who have not taken a Philosophy course, should contact the department for a prerequisite override.

**Prerequisite:** One course in philosophy.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PHIL 31035 PHILOSOPHY AND JUSTICE (DIVD) 3 Credit Hours**

Consideration of topics and issues relevant to the concept of justice, as addressed by a range of classical and contemporary philosophers. Topics may include the nature of justice from feminist, libertarian, liberal, socialist, communitarian, egalitarian, and social welfare perspectives; and the application of these perspectives to practical issues such as affirmative action, democracy, equal pay, environmental justice, just war, criminal justice, civil disobedience, tort law and poverty. Students with junior standing or above, who have not taken a Philosophy [PHIL] course, should contact the department for a prerequisite override.

**Prerequisite:** One course in philosophy.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Diversity Domestic

**PHIL 31040 FEMINIST PHILOSOPHY (DIVD) 3 Credit Hours**

The course introduces feminist philosophy understood as social critique: a critique of unjust, exclusionary, and oppressive systemic practices surrounding sex, sexuality, and gender. As such, the course focuses on issues such as gender identity, sexual difference, the sex and gender binaries, gendered experience, trans embodiment, and LGBTQI marginalization. The course asks whether, and if so, how, feminist theory (more broadly) and feminist philosophy (more narrowly) could draw on canonical philosophical texts, traditions, and figures. The course focuses extensively on contemporary approaches, including queer, race, and gay and lesbian theory. Students with junior standing or above, who have not taken a philosophy course, should contact the department for a prerequisite override.

**Prerequisite:** One course in philosophy.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Diversity Domestic

**PHIL 31050 PHILOSOPHY THROUGH LITERATURE 3 Credit Hours**

This course introduces several philosophical problems via an examination of those problems and themes in works of literature. The course combines philosophical essays with works of poetry, short novels, and short stories, so as to expose students to diverse perspectives on complex philosophical problems. Students with junior standing or above, who have not taken a philosophy course should contact the department for a prerequisite override.

**Prerequisite:** One course in philosophy.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PHIL 31060 PHILOSOPHY OF ART AND BEAUTY (ELR) 3 Credit Hours**

Investigation of concepts such as the artistic object and creative expression, and examination and critique of a range of theories designed to solve various problems in the field of aesthetics, or the study of the nature and principles of artistic beauty. Examples drawn from diverse genres such as the visual arts, drama, music, and dance provide the context for discussion of topics including what makes something beautiful and what is involved in an act of creativity. Students with junior standing or above, who have not taken a Philosophy course, should contact the department for a prerequisite override.

**Prerequisite:** One course in philosophy.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Experiential Learning Requirement

**PHIL 31070 AFRICAN AND AFRICAN-AMERICAN PHILOSOPHIES (DIVD) 3 Credit Hours**

(Cross-listed with PAS 30010) Exploration of philosophical issues in African and African-American or Black thoughts systems. Topics may include the examination of the issue of the existence of a Black philosophy, the nature of traditional African knowledge, beliefs about personhood, the basis and rationality of witchcraft or other metaphysical beliefs, communalism, the nature of Black moral and aesthetic values, and contemporary analysis of race, racism, slavery, civil rights, pan-Africanism, and criticisms of colonialism, Black development, democratic governance and social policies regarding Blacks. Students with junior standing or above, who have not taken a Philosophy course, should contact the department for a prerequisite override.

**Prerequisite:** One course in philosophy.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Diversity Domestic

**PHIL 31072 AMERICAN INDIAN PHILOSOPHIES (DIVD) 3 Credit Hours**

Examination of philosophical issues and themes in American Indian world views with attention given to the reflections of contemporary native scholars. Students with junior standing or above, who have not taken a Philosophy course should contact the department for a prerequisite override.

**Prerequisite:** One course in philosophy.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Diversity Domestic

**PHIL 31075 PHILOSOPHY AND CULTURE (DIVG) 3 Credit Hours**

Critical examination of various philosophical ideas and issues from diverse cultural perspectives. Topics include pluralism, coexistence, toleration and relativism. Students with junior standing or above who have not taken a Philosophy (PHIL) course should contact the department for a prerequisite override.

**Prerequisite:** One course in philosophy.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Diversity Global

**PHIL 31080 FOUNDATIONS IN THE HISTORY AND PHILOSOPHY OF SCIENCE 3 Credit Hours**

(Cross-listed with HIST 31500) An introduction to the study of science as a social, cultural, and historical phenomenon with an emphasis on the history of science primarily in western civilization since 1500 and the major philosophical approaches to science developed in the twentieth century.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PHIL 32091 SEMINAR: PHILOSOPHICAL REFLECTIONS 3 Credit Hours**

Junior-level seminar with variable topics of philosophical interest. Please check the departmental website or contact the instructor regarding each semester's topic. Students with junior standing or above, who have not taken a Philosophy [PHIL] course, should contact the department for a prerequisite override.

**Prerequisite:** One course in philosophy.

**Schedule Type:** Seminar

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**PHIL 40005 HEALTH CARE ETHICS 3 Credit Hours**

Ethical problems in health care critically assessed, and consideration of how these specific ethical problems illuminate the ethical enterprise. Students with junior standing or above, who have not taken a philosophy course, should contact the department for a prerequisite override.

**Prerequisite:** One course in philosophy.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PHIL 40093 VARIABLE TITLE WORKSHOP IN PHILOSOPHY 1-6 Credit Hours**

(Repeatable for credit)

**Prerequisite:** Permission.

**Schedule Type:** Workshop

**Contact Hours:** 1-6 other

**Grade Mode:** Satisfactory/Unsatisfactory

**PHIL 41010 PROBLEMS IN THE PHILOSOPHY OF RELIGION 3 Credit Hours**

(Slashed with PHIL 51010) Philosophical examination of issues and problems presented by various writers in philosophy of religion.

**Prerequisite:** One of the following: PHIL 31001 or PHIL 31002 or PHIL 31003 or PHIL 31004 or PHIL 31005 or PHIL 31006 or PHIL 31010 or PHIL 31020.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PHIL 41020 SOCIAL AND POLITICAL PHILOSOPHY 3 Credit Hours**

(Slashed with PHIL 51020) Critical examination of classical and contemporary philosophical theories of the nature of society, and the state as political system that best represents a well-organized society. Topics may include the nature, existence, and justification of the state, the issue of political obligation, theories of anarchism, utopia, democracy, liberalism, communitarianism, citizenship, and patriotism, and examination of the nature of the social and political values or notions of rights, equality, and liberty.

**Prerequisite:** One of the following courses: PHIL 31001, PHIL 31002, PHIL 31003, PHIL 31004, PHIL 31005, PHIL 31006, PHIL 31010 or PHIL 31020.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PHIL 41025 PHILOSOPHY OF LAW 3 Credit Hours**

(Slashed with PHIL 51025) Critical examination of the nature, features, foundation, and function of law. Topics may include the debate between natural law theory and legal positivism, with respect to whether law and moral are necessarily connected, as well as the nature of judicial decision, constitution interpretation, the basis and elements of criminal, civil law (contract, tort) law, the grounds for obeying or disobeying bad laws, and analysis of some supreme court cases which raise philosophical issues about the nature and function of law.

**Prerequisite:** One of the following courses: PHIL 31001 or PHIL 31002 or PHIL 31003 or PHIL 31004 or PHIL 31005 or PHIL 31006 or PHIL 31010 or PHIL 31020.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PHIL 41030 ETHICAL THEORY 3 Credit Hours**

(Slashed with PHIL 51030) In this course, students will explore developments in the dominant normative theories of 20th and 21st century Anglo-American ethics, including consequentialism, deontology, virtue ethics, ethics of care, and varieties of contract theory.

**Prerequisite:** One of the following courses: PHIL 31001, PHIL 31002, PHIL 31003, PHIL 31004, PHIL 31005, PHIL 31006, PHIL 31010, or PHIL 31020.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PHIL 41033 PHILOSOPHY OF IMAGINATION 3 Credit Hours**

(Slashed with PHIL 51033) Drawing from a variety of approaches and figures in the history of philosophy, the course examines the imagination as a distinctive faculty and type of consciousness. Some of the central questions of the course are: How does the imagination relate to perception, judgment, or memory? How are we to understand the work of the imagination from an epistemic, metaphysical, moral, or aesthetic point of view? What role, if any, does the imagination play in scientific and philosophical inquiry?

**Prerequisite:** One of the following courses: PHIL 31001, PHIL 31002, PHIL 31003, PHIL 31004, PHIL 31005, PHIL 31006, PHIL 31010 or PHIL 31020.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PHIL 41034 PHILOSOPHY OF PSYCHOLOGY AND PSYCHIATRY 3 Credit Hours**

(Slashed with PHIL 51034) This course addresses the question, "What are mental disorders?" using the methods of philosophy. We consider metaphysical questions such as, "Are mental disorders natural kinds or social kinds?" and "Can we provide a reductionist account of mental disorder?", questions from Philosophy of Mind such as, "Can a theory of mind-brain dualism accommodate the possibility of mental disorder?", and ethical questions such as, "How can we hold people with personality disorders responsible for their actions without blaming them?" By addressing the nature of mental disorder from a variety of philosophical angles, we will examine not only how each subfield answers the question in isolation, but also how each subfield might complement or contradict other philosophical approaches.

**Prerequisite:** One of the following courses: PHIL 31001, PHIL 31002, PHIL 31003, PHIL 31004, PHIL 31005, PHIL 31006, PHIL 31010 or PHIL 31020.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PHIL 41035 PHILOSOPHY OF SCIENCE 3 Credit Hours**

(Slashed with PHIL 51035) What is science? What are its distinctive aims and methods, and how do they bolster the epistemic authority of scientific theories? Do sociological, historical, and cultural factors play a major role in the advancement of scientific thought? These questions, and others like them, define the philosophy of science - a branch of philosophy that deals with the metaphysical, epistemological, and normative issues that arise in the study of scientific practice.

**Prerequisite:** One of the following courses: PHIL 31001, PHIL 31002, PHIL 31003, PHIL 31004, PHIL 31005, PHIL 31006, PHIL 31010 or PHIL 31020.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PHIL 41036 PHILOSOPHY OF COGNITIVE SCIENCE 3 Credit Hours**

(Slashed with PHIL 51036) In this course, students focus on issues at the interface of philosophy, psychology, neuroscience, linguistics, and artificial intelligence. These fields, which comprise contemporary cognitive science, present the philosopher with an opportunity to clarify foundational concepts, such as computation, innateness, language, perception, and learning. Ultimately, the goal of the course is to understand various proposals about how neural computation could amount to human intelligence and consciousness.

**Prerequisite:** One of the following courses: PHIL 31001 or PHIL 31002 or PHIL 31003 or PHIL 31004 or PHIL 31005 or PHIL 31006 or PHIL 31010 or PHIL 31020.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PHIL 41037 RENAISSANCE AND EARLY MODERN PHILOSOPHY AND SCIENCE 3 Credit Hours**

(Slashed with PHIL 51037) An investigation of the work of the most important European philosophers of the 15th-17th centuries, with a particular emphasis on the interrelation between philosophy and science in their thought, and on the influence of Greek philosophy on the intellectual life of the time.

**Prerequisite:** PHIL 31001 or PHIL 31002 or PHIL 31003 or PHIL 31004 or PHIL 31005 or PHIL 31006 or PHIL 31010 or PHIL 31020.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PHIL 41038 INTERMEDIATE LOGIC 3 Credit Hours**

(Slashed with PHIL 51038; Cross-listed with CS 41038 and MATH 41038 and MATH 51038) A detailed, systematic study of symbolic logic for philosophy majors, mathematics majors, computer science majors, and anyone else interested in advanced study in logic. The aim of the course is twofold: first, to develop a facility in understanding and using symbolic logic for various purposes, and second, to understand and appreciate symbolic logic as an area of study in itself. Topics include the distinction between syntactic, object-level proofs and semantic, meta-level proofs, the distinction between axiomatic systems and natural deduction systems of object-level proofs, various systems of modal logic, and some non-classical logics. Students with junior standing or above, who have not taken a Philosophy course, should contact the department for a prerequisite override.

**Prerequisite:** One course in philosophy.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PHIL 41040 EPISTEMOLOGY 3 Credit Hours**

(Slashed with PHIL 51040) What is the difference between merely believing something to be the case and knowing it to be the case? In this course students examine various theories designed to answer this question and evaluate their respective strengths and weaknesses. The course will cover the Gettier problem that questions the traditional definition of knowledge as justified true belief, the debate between foundationalism and coherentism, the debate between internalism and externalism about justification, naturalized epistemology, and virtue epistemology.

**Prerequisite:** One of the following courses: PHIL 31001, PHIL 31002, PHIL 31003, PHIL 31004, PHIL 31005, PHIL 31006, PHIL 31010, or PHIL 31020.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PHIL 41042 METAPHYSICS 3 Credit Hours**

(Slashed with PHIL 51042) Covers several topics in contemporary analytic metaphysics. Topics may include existence, identity, things and their persistence over time, the nature of modalities and possible worlds, and the relationship between material parts and wholes.

**Prerequisite:** One of the following courses: PHIL 31001 or PHIL 31002 or PHIL 31003 or PHIL 31004 or PHIL 31005 or PHIL 31006 or PHIL 31010 or PHIL 31020.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter



**PHIL 41045 METALOGIC 3 Credit Hours**

(Slashed with PHIL 51045) (Cross-listed with CS 41045 and CS 51045 and MATH 41045 and MATH 51045) A detailed, systematic study of metalogic for philosophy majors, mathematics majors, computer science majors, and anyone else interested in advanced study in logic. Topics include the soundness and completeness of the propositional and predicate calculi, the decidability of propositional calculus, the undecidability of predicate calculus, Gödel's incompleteness proof for languages capable of expressing arithmetic, the co-extensionality of the set of general recursive functions, abacus computable functions, and Turing computable functions, and the philosophical motivations for the Church-Turing Thesis that all computable functions are Turing computable.

**Prerequisite:** PHIL 41038.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PHIL 41048 METAETHICS 3 Credit Hours**

(Slashed with PHIL 51048) Metaethics is the study of the nature and justification of moral judgments, as distinct from ethics, which aims to articulate principles, criteria, or alternative approaches to understanding and achieving goodness and right action. Metaethics examines the concepts, ontology, psychology, and modes of justification employed within ethics. This course will explore recent developments about such questions as: which, if any, ethical judgments can be true or false; whether we can know true ethical statements; and to what kinds of properties, if any, ethical judgments and beliefs refer.

**Prerequisite:** One of the following courses: PHIL 31001, PHIL 31002, PHIL 31003, PHIL 31004, PHIL 31005, PHIL 31006, PHIL 31010, or PHIL 31020.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PHIL 41050 ANALYTIC PHILOSOPHY 3 Credit Hours**

(Slashed with PHIL 51040) Focuses on the history and continued evolution of analytic philosophy. Readings include works by philosophers such as Frege, Russell, Moore, Wittgenstein, Schlick, Carnap, Ryle, Austin, Strawson, Grice, Quine, Davidson, Kripke, Putnam, and others. The aim of the course is (i) to understand the theses and themes that commonly arise in analytic philosophy, their philosophical motivations, and the problems they face, and (ii) to become familiar with the methodologies used by analytic philosophers including (but not limited to) logical analysis, appeals to ordinary language, the use of thought experiments, and the use of possible world semantics.

**Prerequisite:** One of the following courses: PHIL 31001 or PHIL 31002 or PHIL 31003 or PHIL 31004 or PHIL 31005 or PHIL 31006 or PHIL 31010 or PHIL 31020.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PHIL 41055 PHENOMENOLOGY 3 Credit Hours**

(Slashed with PHIL 51055) In-depth study of the phenomenological movement in twentieth-century philosophy, from its origin in the thought of Edmund Husserl and his contemporaries, through such canonical thinkers as Martin Heidegger and Maurice Merleau-Ponty, to various contemporary developments. Substantial time is also devoted to considering applications of phenomenology to various disciplines in the humanities, social sciences, and arts. This is in keeping with the overall focus in this seminar on phenomenology not only as a philosophical school, but also as a methodology with broad and diverse applications.

**Prerequisite:** One of the following courses: PHIL 31001, PHIL 31002, PHIL 31003, PHIL 31004, PHIL 31005, PHIL 31006, PHIL 31010 or PHIL 31020.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PHIL 41060 PRAGMATISM 3 Credit Hours**

(Slashed with PHIL 51060) As America's distinctive "home-grown" philosophy, pragmatism embodies the values of action, problem-solving, and consensus-building within a pluralistic society. The core of this course examines the seminal works of the classical American pragmatists: Peirce, James, and Dewey. Special attention will be devoted to a phenomenology of experience that undercuts the dualisms of mind and matter, subject and object, self and world.

**Prerequisite:** One of the following courses: PHIL 31001, PHIL 31002, PHIL 31003, PHIL 31004, PHIL 31005, PHIL 31006, PHIL 31010 or PHIL 31020.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PHIL 41065 PLATO 3 Credit Hours**

(Slashed with PHIL 51065) Detailed examination of selected Platonic dialogues, with some attention to Plato's development and dismissal of certain pre-Socratic (and Socratic) themes.

**Prerequisite:** One of the following courses: PHIL 31001, 31002, 31003, 31004, 31005, 31006, 31010 or 31020.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PHIL 41070 ARISTOTLE 3 Credit Hours**

(Slashed with PHIL 51070) Detailed examination of selected works of Aristotle, with some attention given to Aristotle's development and dismissal of certain pre-Socratic and Platonic themes.

**Prerequisite:** One of the following courses: PHIL 31001, 31002, 31003, 31004, 31005, 31006, 31010 or 31020.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PHIL 41076 CONTINENTAL PHILOSOPHY 3 Credit Hours**

(Slashed with PHIL 51076) Investigation of some figure, issue or theme in continental philosophy from Descartes to present.

**Prerequisite:** One of the following courses: PHIL 31001, 31002, 31003, 31004, 31005, 31006, 31010 or 31020.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PHIL 41080 PHILOSOPHY AND ART: 1890 - PRESENT 3 Credit Hours**  
(Slashed with PHIL 51080) Exploring, with emphasis on the modern age, philosophical conceptions of art in their interplays with, especially, practicing artists' attitudes toward theory.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PHIL 41091 SEMINAR IN WORLD PHILOSOPHY 3 Credit Hours**

(Slashed with PHIL 51091) (Repeatable for a maximum of 3 credit hours) Intensive primary-source reading and critical appreciation of the significant works of one or more philosophical figures or one or more philosophical issues from traditions outside the Western canon.

**Prerequisite:** One of the following courses: PHIL 31001 or PHIL 31002 or PHIL 31003 or PHIL 31004 or PHIL 31005 or PHIL 31006 or PHIL 31010 or PHIL 31020.

**Schedule Type:** Seminar

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**PHIL 41491 SEMINAR IN ASIAN PHILOSOPHY (DIVG) 3 Credit Hours**

(Slashed with PHIL 51491) (Repeatable a maximum of 2 times) Intensive primary-source reading and critical appreciation of the significant works of one or more philosophical figures or one or more philosophical issues from traditions in Asian philosophy.

**Prerequisite:** One of the following courses: PHIL 31001 or PHIL 31002 or PHIL 31003 or PHIL 31004 or PHIL 31005 or PHIL 31006 or PHIL 31010 or PHIL 31020.

**Schedule Type:** Seminar

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**Attributes:** Diversity Global

**PHIL 41591 SEMINAR IN THE HISTORY OF ETHICS 3 Credit Hours**

(Slashed with PHIL 51591) (Repeatable a maximum of 2 times) Intensive primary-source reading and critical appreciation of the significant works of one or more philosophical figures or one or more philosophical issues from traditions in the history of ethics.

**Prerequisite:** One of the following courses: PHIL 31001 or PHIL 31002 or PHIL 31003 or PHIL 31004 or PHIL 31005 or PHIL 31006 or PHIL 31010 or PHIL 31020.

**Schedule Type:** Seminar

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**PHIL 49995 SPECIAL TOPICS 2,3 Credit Hours**

(Repeatable for credit when topic varies)

**Prerequisite:** Special approval.

**Schedule Type:** Lecture

**Contact Hours:** 2-3 lecture

**Grade Mode:** Standard Letter

**PHIL 49996 INDIVIDUAL INVESTIGATION 1-3 Credit Hours**

(Repeatable for credit with departmental approval prior to registration)

**Prerequisite:** Departmental special approval prior to registration.

**Schedule Type:** Individual Investigation

**Contact Hours:** 1-3 other

**Grade Mode:** Standard Letter-IP

**PHIL 49999 SENIOR HONORS PROJECT (ELR) 2,3 Credit Hours**

(Repeated registration permitted with departmental approval prior to registration) Thesis or other independent study or creative project.

**Prerequisite:** Departmental permission before registration.

**Schedule Type:** Senior Project/Honors Thesis

**Contact Hours:** 2-3 other

**Grade Mode:** Standard Letter-IP

**Attributes:** Experiential Learning Requirement

**PHIL 50005 HEALTH CARE ETHICS 3 Credit Hours**

Ethical problems in health care critically assessed and consideration of how these specific ethical problems illuminate the ethical enterprise.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PHIL 50093 VARIABLE TITLE WORKSHOP IN PHILOSOPHY 1-6 Credit Hours**

(Repeatable for credit)

**Prerequisite:** Graduate standing.

**Schedule Type:** Workshop

**Contact Hours:** 3 other

**Grade Mode:** Satisfactory/Unsatisfactory

**PHIL 51010 PROBLEMS IN THE PHILOSOPHY OF RELIGION 3 Credit Hours**

(Slashed with PHIL 41010) Philosophical examination of issues and problems presented by various writers in philosophy of religion.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PHIL 51020 SOCIAL AND POLITICAL PHILOSOPHY 3 Credit Hours**

(Slashed with PHIL 41020) Critical examination of classical and contemporary philosophical theories of the nature of society, and the state as political system that best represents a well-organized society. Topics may include the nature, existence, and justification of the state, the issue of political obligation, theories of anarchism, utopia, democracy, liberalism, communitarianism, citizenship, and patriotism, and examination of the nature of the social and political values or notions of rights, equality, and liberty.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PHIL 51025 PHILOSOPHY OF LAW 3 Credit Hours**

(Slashed with PHIL 41025) Critical examination of the nature, features, foundation, and function of law. Topics may include the debate between natural law theory and legal positivism, with respect to whether law and moral are necessarily connected, as well as the nature of judicial decision, constitution interpretation, the basis and elements of criminal, civil law (contract, tort) law, the grounds for obeying or disobeying bad laws, and analysis of some supreme court cases which raise philosophical issues about the nature and function of law.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PHIL 51030 ETHICAL THEORY 3 Credit Hours**

(Slashed with PHIL 41030) In this course, students will explore developments in the dominant normative theories of 20th and 21st century Anglo-American ethics, including consequentialism, deontology, virtue ethics, ethics of care, and varieties of contract theory.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PHIL 51033 PHILOSOPHY OF IMAGINATION 3 Credit Hours**

(Slashed with PHIL 41033) Drawing from a variety of approaches and figures in the history of philosophy, the course examines the imagination as a distinctive faculty and type of consciousness. Some of the central questions of the course are: How does the imagination relate to perception, judgment, or memory? How are we to understand the work of the imagination from an epistemic, metaphysical, moral, or aesthetic point of view? What role, if any, does the imagination play in scientific and philosophical inquiry?

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PHIL 51034 PHILOSOPHY OF PSYCHOLOGY AND PSYCHIATRY 3 Credit Hours**

(Slashed with PHIL 51034) This course addresses the question, "What are mental disorders?" using the methods of philosophy. We consider metaphysical questions such as, "Are mental disorders natural kinds or social kinds?" and "Can we provide a reductionist account of mental disorder?", questions from Philosophy of Mind such as, "Can a theory of mind-brain dualism accommodate the possibility of mental disorder?", and ethical questions such as, "How can we hold people with personality disorders responsible for their actions without blaming them?" By addressing the nature of mental disorder from a variety of philosophical angles, we will examine not only how each subfield answers the question in isolation, but also how each subfield might complement or contradict other philosophical approaches.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PHIL 51035 PHILOSOPHY OF SCIENCE 3 Credit Hours**

(Slashed with PHIL 41035) What is science? What are its distinctive aims and methods, and how do they bolster the epistemic authority of scientific theories? Do sociological, historical, and cultural factors play a major role in the advancement of scientific thought? These questions, and others like them, define the philosophy of science - a branch of philosophy that deals with the metaphysical, epistemological, and normative issues that arise in the study of scientific practice.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PHIL 51036 PHILOSOPHY OF COGNITIVE SCIENCE 3 Credit Hours**

(Slashed with PHIL 41036) In this course, students focus on issues at the interface of philosophy, psychology, neuroscience, linguistics, and artificial intelligence. These fields, which comprise contemporary cognitive science, present the philosopher with an opportunity to clarify foundational concepts, such as computation, innateness, language, perception, and learning. Ultimately, the goal of the course is to understand various proposals about how neural computation could amount to human intelligence and consciousness.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PHIL 51037 RENAISSANCE AND EARLY MODERN PHILOSOPHY AND SCIENCE 3 Credit Hours**

(Slashed with PHIL 41037) An investigation of the work of the most important European philosophers of the 15th-17th centuries, with a particular emphasis on the interrelation between philosophy and science in their thought, and on the influence of Greek philosophy on the intellectual life of the time.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PHIL 51038 INTERMEDIATE LOGIC 3 Credit Hours**

(Slashed with PHIL 41038) (Cross-listed with CS 41038 and MATH 41038 and MATH 51038) A detailed, systematic study of symbolic logic for philosophy majors, mathematics majors, computer science majors, and anyone else interested in advanced study in logic. The aim of the course is twofold: first, to develop a facility in understanding and using symbolic logic for various purposes, and second, to understand and appreciate symbolic logic as an area of study in itself. Topics include the distinction between syntactic, object-level proofs and semantic, meta-level proofs, the distinction between axiomatic systems and natural deduction systems of object-level proofs, various systems of modal logic, and some non-classical logics.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PHIL 51040 EPISTEMOLOGY 3 Credit Hours**

(Slashed with PHIL 41040) What is the difference between merely believing something to be the case and knowing it to be the case? In this course students examine various theories designed to answer this question and evaluate their respective strengths and weaknesses. The course will cover the Gettier problem that questions the traditional definition of knowledge as justified true belief, the debate between foundationalism and coherentism, the debate between internalism and externalism about justification, naturalized epistemology, and virtue epistemology.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PHIL 51042 METAPHYSICS 3 Credit Hours**

(Slashed with PHIL 41042) Covers several topics in contemporary analytic metaphysics. Topics may include existence, identity, things and their persistence over time, the nature of modalities and possible worlds, and the relationship between material parts and wholes.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PHIL 51045 METALOGIC 3 Credit Hours**

(Slashed with PHIL 41045) (Cross-listed with CS 41045 and CS 51045 and MATH 41045 and MATH 51045) A detailed, systematic study of metalogic for philosophy majors, mathematics majors, computer science majors, and anyone else interested in advanced study in logic. Topics include the soundness and completeness of the propositional and predicate calculi, the decidability of propositional calculus, the undecidability of predicate calculus, Gödel's incompleteness proof for languages capable of expressing arithmetic, the co-extensionality of the set of general recursive functions, abacus computable functions, and Turing computable functions, and the philosophical motivations for the Church-Turing Thesis that all computable functions are Turing computable.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PHIL 51048 METAETHICS 3 Credit Hours**

(Slashed with PHIL 41048) Metaethics is the study of the nature and justification of moral judgments, as distinct from ethics, which aims to articulate principles, criteria, or alternative approaches to understanding and achieving goodness and right action. Metaethics examines the concepts, ontology, psychology, and modes of justification employed within ethics. This course will explore recent developments about such questions as: which, if any, ethical judgments can be true or false; whether we can know true ethical statements; and to what kinds of properties, if any, ethical judgments and beliefs refer.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PHIL 51050 ANALYTIC PHILOSOPHY 3 Credit Hours**

(Slashed with PHIL 41050) Focuses on the history and continued evolution of analytic philosophy. Readings include works by philosophers such as Frege, Russell, Moore, Wittgenstein, Schlick, Carnap, Ryle, Austin, Strawson, Grice, Quine, Davidson, Kripke, Putnam, and others. The aim of the course is (i) to understand the theses and themes that commonly arise in analytic philosophy, their philosophical motivations, and the problems they face, and (ii) to become familiar with the methodologies used by analytic philosophers including (but not limited to) logical analysis, appeals to ordinary language, the use of thought experiments, and the use of possible world semantics.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PHIL 51055 PHENOMENOLOGY 3 Credit Hours**

(Slashed with PHIL 41055) In-depth study of the phenomenological movement in twentieth-century philosophy, from its origin in the thought of Edmund Husserl and his contemporaries, through such canonical thinkers as Martin Heidegger and Maurice Merleau-Ponty, to various contemporary developments. Substantial time is also devoted to considering applications of phenomenology to various disciplines in the humanities, social sciences, and arts. This is in keeping with the overall focus in this seminar on phenomenology not only as a philosophical school, but also as a methodology with broad and diverse applications.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PHIL 51060 PRAGMATISM 3 Credit Hours**

(Slashed with PHIL 41060) As America's distinctive "home-grown" philosophy, pragmatism embodies the values of action, problem-solving, and consensus-building within a pluralistic society. The core of this course examines the seminal works of the classical American pragmatists: Peirce, James, and Dewey. Special attention will be devoted to a phenomenology of experience that undercuts the dualisms of mind and matter, subject and object, self and world.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PHIL 51065 PLATO 3 Credit Hours**

(Slashed with PHIL 51065) Detailed examination of selected platonic dialogues, with some attention to Plato's development and dismissal of certain pre-Socratic (and Socratic) themes.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PHIL 51070 ARISTOTLE 3 Credit Hours**

(Slashed with PHIL 41070) Detailed examination of selected works of Aristotle, with some attention given to Aristotle's development and dismissal of certain pre-Socratic and Platonic themes.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PHIL 51076 CONTINENTAL PHILOSOPHY 3 Credit Hours**

(Slashed with PHIL 41076) Investigation of some figure, issue or theme in continental philosophy from Descartes to present.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PHIL 51080 PHILOSOPHY AND ART: 1890 - PRESENT 3 Credit Hours**

(Slashed with PHIL 41080) Exploring, with emphasis, on the modern age philosophical conceptions of art in their interplays with, especially, practicing artists' attitudes toward theory.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PHIL 51091 SEMINAR IN WORLD PHILOSOPHY 3 Credit Hours**  
(Slashed with PHIL 41091) (Repeatable for a maximum of 3 credit hours) Intensive primary-source reading and critical appreciation of the significant works of one or more philosophical figures or one or more philosophical issues from traditions outside the Western canon.  
**Prerequisite:** Graduate standing.  
**Schedule Type:** Seminar  
**Contact Hours:** 3 other  
**Grade Mode:** Standard Letter

**PHIL 51491 SEMINAR IN ASIAN PHILOSOPHY 3 Credit Hours**  
(Slashed with PHIL 41491) (Repeatable for a maximum of 2 times) Intensive primary-source reading and critical appreciation of the significant works of one or more philosophical figures or one or more philosophical issues from traditions in Asian philosophy.  
**Prerequisite:** Graduate standing.  
**Schedule Type:** Seminar  
**Contact Hours:** 3 other  
**Grade Mode:** Standard Letter

**PHIL 51591 SEMINAR IN THE HISTORY OF ETHICS 3 Credit Hours**  
(Slashed with PHIL 41591) (Repeatable twice for credit) Intensive primary-source reading and critical appreciation of the significant works of one or more philosophical figures or one or more philosophical issues from traditions in the history of ethics.  
**Prerequisite:** Graduate standing.  
**Schedule Type:** Seminar  
**Contact Hours:** 3 other  
**Grade Mode:** Standard Letter

**PHIL 59995 SPECIAL TOPICS 3 Credit Hours**  
(Repeatable for credit) When content varies, may be repeated for credit.  
**Prerequisite:** Graduate standing.  
**Schedule Type:** Lecture  
**Contact Hours:** 3 lecture  
**Grade Mode:** Standard Letter

**PHIL 59996 INDIVIDUAL INVESTIGATION 1-3 Credit Hours**  
(Repeatable for credit with department approval)  
**Prerequisite:** Graduate standing; and special approval.  
**Schedule Type:** Individual Investigation  
**Contact Hours:** 1-3 other  
**Grade Mode:** Satisfactory/Unsatisfactory-IP

**PHIL 60191 GRADUATE SEMINAR 3 Credit Hours**  
(Repeatable for credit) Intensive primary-source reading and critical appreciation of the significant works of one or more philosophical figures or one or more philosophical issues.  
**Prerequisite:** Graduate standing.  
**Schedule Type:** Seminar  
**Contact Hours:** 3 lecture  
**Grade Mode:** Standard Letter

**PHIL 60201 SEMINAR:HISTORY OF PHILOSOPHY 3 Credit Hours**  
Intensive primary-source reading and critical appreciation of the significant works of one or more historical philosophers (other than Plato and Aristotle) or one or more historical philosophical issues.  
**Prerequisite:** Graduate standing.  
**Schedule Type:** Lecture  
**Contact Hours:** 3 lecture  
**Grade Mode:** Standard Letter

**PHIL 61000 RESPONSIBLE CONDUCT OF RESEARCH 1 Credit Hour**  
(Cross-listed with BMS 61000 and BMS 71000) Introduction into professional and ethical conduct of research. Topics include codes and laws governing research, identification of scientific misconduct, plagiarism, authorship and intellectual properties, ethical animal and human research.  
**Prerequisite:** Graduate standing.  
**Schedule Type:** Lecture  
**Contact Hours:** 1 lecture  
**Grade Mode:** Standard Letter

**PHIL 61050 PHILOSOPHY OF LANGUAGE 3 Credit Hours**  
Critical examination of nature and function of language especially in relation to mental function and development.  
**Prerequisite:** Graduate standing.  
**Schedule Type:** Lecture  
**Contact Hours:** 3 lecture  
**Grade Mode:** Standard Letter

**PHIL 61055 SEMEIOTICS 3 Credit Hours**  
(Cross-listed with MCLS 60020) An introduction to contemporary theories of semeiotics and to the application of those theories to linguistics, literature, translation and technology.  
**Prerequisite:** Graduate standing.  
**Schedule Type:** Lecture  
**Contact Hours:** 3 lecture  
**Grade Mode:** Standard Letter

**PHIL 61056 HERMENEUTICS 3 Credit Hours**  
Critical appreciation of the theories and practices of interpretation comprehended according to certain classical, current and emergent philosophic styles and traditions.  
**Prerequisite:** Graduate standing.  
**Schedule Type:** Lecture  
**Contact Hours:** 3 lecture  
**Grade Mode:** Standard Letter

**PHIL 69101 GRADUATE PROSEMINAR 3 Credit Hours**  
Students participate in the preparation and planning of the annual Graduate Student Conference, receive professional training and mentoring, and work closely with faculty to write and revise a philosophical essay suitable for use as a writing sample or conference presentation.  
**Prerequisite:** Graduate standing.  
**Schedule Type:** Seminar  
**Contact Hours:** 3 lecture  
**Grade Mode:** Satisfactory/Unsatisfactory

**PHIL 69194 COLLEGE TEACHING OF PHILOSOPHY 1 Credit Hour**  
(Repeatable for credit) Discussion, critique and development of concepts to guide the teaching of philosophy including concepts of procedures and tactics for planning, pacing, presenting, representing and reviewing philosophic texts figures and issues.  
**Prerequisite:** Graduate standing.  
**Schedule Type:** Lecture  
**Contact Hours:** 1 lecture  
**Grade Mode:** Satisfactory/Unsatisfactory-IP

**PHIL 69198 FIRST YEAR PAPER 1 Credit Hour**  
Research paper for graduate students conducted under direction of the advisory group.  
**Prerequisite:** Graduate standing.  
**Schedule Type:** Research  
**Contact Hours:** 1 other  
**Grade Mode:** Satisfactory/Unsatisfactory-IP



**PHIL 69199 THESIS I 2-6 Credit Hours**

Thesis students must register for a total of 6 hours, 2 to 6 hours in a single semester distributed over several semesters if desired.

**Prerequisite:** Graduate standing; and departmental special approval before registration.

**Schedule Type:** Masters Thesis

**Contact Hours:** 2-6 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**PHIL 69299 THESIS II 2 Credit Hours**

Thesis students must continue registration each semester until all degree requirements are met.

**Prerequisite:** PHIL 69199; and graduate standing.

**Schedule Type:** Masters Thesis

**Contact Hours:** 3 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**PHIL 69995 SPECIAL TOPICS 3 Credit Hours**

(Repeatable for credit) Selected topics in Philosophy.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PHIL 69997 COLLOQUIUM 1 Credit Hour**

(Repeatable for credit) Student, faculty and invited guests participate in conference-like contexts to present and discuss issues of current philosophic interest.

**Prerequisite:** Graduate standing.

**Schedule Type:** Colloquium

**Contact Hours:** 1 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**PHIL 69998 RESEARCH 1-15 Credit Hours**

(Repeatable for credit) Research or individual investigation for master's level graduate students. Credits earned may be applied toward meeting degree requirements.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Research

**Contact Hours:** 1-15 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

## Department of Physics

### Physics (PHY)

**PHY 11030 SEVEN IDEAS THAT SHOOK THE UNIVERSE (KBS) 3 Credit Hours**

Description of major revolutionary physical concepts and their implications for understanding the physical universe. Not counted toward requirements for physics major.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Kent Core Basic Sciences, Transfer Module Natural Sciences

**PHY 12000 INTRODUCTORY PHYSICS SEMINAR (ELR) 1 Credit Hour**

To provide a nurturing course for new physics majors, ideally to be taken in their first semester as majors. The course includes a journal club component, informational talks by industrial physicists and training in a select group of essential skills and tools for future work in the physics program.

**Prerequisite:** None.

**Schedule Type:** Seminar

**Contact Hours:** 1 other

**Grade Mode:** Standard Letter

**Attributes:** Experiential Learning Requirement

**PHY 12111 PHYSICS FOR HEALTH TECHNOLOGIES 3 Credit Hours**

Basic physics applied to health technologies: measurement techniques, force and motion of solids and fluids, energy, heat wave phenomena, electricity. Students taking this course should be in a health technologies major.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PHY 12201 TECHNICAL PHYSICS I (KBS) (KLAB) 3 Credit Hours**

Introduction to principles of physics: mechanics.

**Prerequisite:** MATH 11010.

**Pre/corequisite:** MATH 11022.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 2 lecture, 2 lab

**Grade Mode:** Standard Letter

**Attributes:** Kent Core Basic Sciences, Kent Core Basic Sciences Lab

**PHY 12202 TECHNICAL PHYSICS II (KBS) (KLAB) 4 Credit Hours**

Introduction to principles of physics, including fluids, thermodynamics, electricity and magnetism.

**Prerequisite:** PHY 12201.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 3 lecture, 2 lab

**Grade Mode:** Standard Letter

**Attributes:** Kent Core Basic Sciences, Kent Core Basic Sciences Lab

**PHY 13001 GENERAL COLLEGE PHYSICS I (KBS) 4 Credit Hours**

Principles of mechanics, heat and sound.

**Prerequisite:** MATH 11022 with a minimum C grade.

**Pre/corequisite:** MATH 12002 or MATH 12012 or MATH 12021.

**Corequisite:** PHY 13021.

**Schedule Type:** Lecture, Recitation

**Contact Hours:** 3 lecture, 1 other

**Grade Mode:** Standard Letter

**Attributes:** Kent Core Basic Sciences, TAG Science, Transfer Module Natural Sciences

**PHY 13002 GENERAL COLLEGE PHYSICS II (KBS) 4 Credit Hours**

Principles of electricity and magnetism, optics and modern physics. Three hours lecture and one hour recitation weekly.

**Prerequisite:** PHY 13001 or PHY 23101.

**Corequisite:** PHY 13022.

**Schedule Type:** Lecture, Recitation

**Contact Hours:** 3 lecture, 1 other

**Grade Mode:** Standard Letter

**Attributes:** Kent Core Basic Sciences, TAG Science, Transfer Module Natural Sciences

**PHY 13011 COLLEGE PHYSICS I (KBS) 2 Credit Hours**

Principles of classical physics, primarily mechanics. Three-hour lecture and one-hour recitation weekly. This is a flexibly scheduled course that meets concurrently with PHY 13001 for the first half of the regular term.

**Prerequisite:** MATH 11022 with a minimum C grade.

**Pre/corequisite:** MATH 12002 or MATH 12012 or MATH 12021.

**Corequisite:** PHY 13021.

**Schedule Type:** Lecture, Recitation

**Contact Hours:** 3 lecture, 1 other

**Grade Mode:** Standard Letter

**Attributes:** Kent Core Basic Sciences, Transfer Module Natural Sciences

**PHY 13012 COLLEGE PHYSICS II (KBS) 2 Credit Hours**

Principles of classical physics, primarily electricity and magnetism.

**Prerequisite:** PHY 13001 or PHY 13011 or PHY 23101.

**Schedule Type:** Lecture, Recitation

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**Attributes:** Kent Core Basic Sciences, Transfer Module Natural Sciences

**PHY 13021 GENERAL COLLEGE PHYSICS LABORATORY I (KBS) (KLAB) 1 Credit Hour**

Introductory lab to accompany PHY 13001 or PHY 13011.

**Corequisite:** PHY 13001 or PHY 13011.

**Schedule Type:** Laboratory

**Contact Hours:** 2 lab

**Grade Mode:** Standard Letter

**Attributes:** Kent Core Basic Sciences, Kent Core Basic Sciences Lab, TAG Science, Transfer Module Natural Sciences

**PHY 13022 GENERAL COLLEGE PHYSICS LABORATORY II (KBS) (KLAB) 1 Credit Hour**

Introductory lab to accompany PHY 13002 or PHY 13012.

**Corequisite:** PHY 13002 or PHY 13012.

**Schedule Type:** Laboratory

**Contact Hours:** 2 lab

**Grade Mode:** Standard Letter

**Attributes:** Kent Core Basic Sciences, Kent Core Basic Sciences Lab, TAG Science, Transfer Module Natural Sciences

**PHY 20095 SPECIAL TOPICS 1-3 Credit Hours**

(Repeatable for credit) Topic announced when scheduled.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 1-3 lecture

**Grade Mode:** Standard Letter

**PHY 20096 INDIVIDUAL INVESTIGATION IN PHYSICS 1-6 Credit Hours**

(Repeatable for credit) Individual projects in physics.

**Prerequisite:** Special approval.

**Schedule Type:** Individual Investigation

**Contact Hours:** 1-6 other

**Grade Mode:** Standard Letter-IP

**PHY 21040 PHYSICS IN ENTERTAINMENT AND THE ARTS (KBS) 3 Credit Hours**

Descriptive introduction to physics underlying selected forms of art and entertainment. Examples are drawn from music, visual arts and communications media. Not counted toward requirements for physics major.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Kent Core Basic Sciences, Transfer Module Natural Sciences

**PHY 21041 PHYSICS IN ENTERTAINMENT AND THE ARTS LABORATORY (KBS) (KLAB) 1 Credit Hour**

Laboratory component of PHY 21040, two hours weekly.

**Pre/corequisite:** PHY 21040.

**Schedule Type:** Laboratory

**Contact Hours:** 2 lab

**Grade Mode:** Standard Letter

**Attributes:** Kent Core Basic Sciences, Kent Core Basic Sciences Lab, Transfer Module Natural Sciences

**PHY 21430 FRONTIERS IN ASTRONOMY (KBS) 3 Credit Hours**

Modern description of astrophysical observations, the results of these observations and the physical principles based on them. Not counted toward requirements for physics major.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Kent Core Basic Sciences, Transfer Module Natural Sciences

**PHY 21431 FRONTIERS IN ASTRONOMY LABORATORY (KBS) (KLAB) 1 Credit Hour**

Laboratory component of PHY 21430.

**Pre/corequisite:** PHY 21430.

**Schedule Type:** Laboratory

**Contact Hours:** 3 lab

**Grade Mode:** Standard Letter

**Attributes:** Kent Core Basic Sciences, Kent Core Basic Sciences Lab, Transfer Module Natural Sciences

**PHY 22564 INTRODUCTION TO MATERIALS PHYSICS 3 Credit Hours**

Survey of mechanical and electronic properties of materials with application in science and technology. Metals, semiconductors, ceramics, polymers and liquid crystals, and other special materials will be addressed.

**Prerequisite:** PHY 23102.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PHY 23101 GENERAL UNIVERSITY PHYSICS I (KBS) (KLAB) 5 Credit Hours**

Principles of mechanics, heat and sound at calculus level.

**Pre/corequisite:** MATH 12002.

**Schedule Type:** Laboratory, Lecture

**Contact Hours:** 4 lecture, 3 lab

**Grade Mode:** Standard Letter

**Attributes:** Kent Core Basic Sciences, Kent Core Basic Sciences Lab, TAG Science

**PHY 23102 GENERAL UNIVERSITY PHYSICS II (KBS) (KLAB) 5 Credit Hours**

Principles of electricity, magnetism, light and modern physics at calculus level.

**Prerequisite:** PHY 13001 or PHY 23101.

**Pre/corequisite:** MATH 12003.

**Schedule Type:** Laboratory, Lecture

**Contact Hours:** 4 lecture, 3 lab

**Grade Mode:** Standard Letter

**Attributes:** Kent Core Basic Sciences, Kent Core Basic Sciences Lab, TAG Science

**PHY 30020 INTERMEDIATE PHYSICS LABORATORY (WIC) 2 Credit Hours**

(Repeatable for credit) Experiments in classical and modern physics are selected to accompany and to supplement junior-level physics courses.

**Prerequisite:** PHY 36001 and 10 hours of additional physics courses.

**Schedule Type:** Laboratory

**Contact Hours:** 3 lab

**Grade Mode:** Standard Letter

**Attributes:** Writing Intensive Course

**PHY 30095 SPECIAL TOPICS 1-3 Credit Hours**

(Repeatable for credit) Topic announced when scheduled.

**Prerequisite:** Permission.

**Schedule Type:** Lecture

**Contact Hours:** 1-3 lecture

**Grade Mode:** Standard Letter

**PHY 32511 ELECTRONICS 4 Credit Hours**

'Hands-on' course to give the student a working knowledge of analog electronics and of AC and DC circuits typically used by the scientist.

**Prerequisite:** MATH 12002 and; PHY 13002 or PHY 23102.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 6 other

**Grade Mode:** Standard Letter

**PHY 34000 COSMOLOGY 3 Credit Hours**

This course will provide a quantitative introduction to modern cosmology, from the Big Bang to the formation of the first stars. Subjects include the evolution of the geometry and temperature of the universe its composition and select aspects of general relativity.

**Prerequisite:** PHY 36001.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PHY 35101 CLASSICAL MECHANICS 4 Credit Hours**

Modern description of mechanics including both LaGrangian and Hamilton formulations, with applications to central force, motion, coupled oscillations, rigid body motion and motion in non-inertial reference frames.

**Prerequisite:** PHY 23102 and MATH 32052.

**Schedule Type:** Lecture

**Contact Hours:** 4 lecture

**Grade Mode:** Standard Letter

**PHY 36001 INTRODUCTORY MODERN PHYSICS 3 Credit Hours**

Special theory of relativity, Rutherford-Bohr model of atom, quantization of light, matter waves, Schroedinger equation, hydrogen atom, electron spin, multi-electron atoms.

**Prerequisite:** MATH 12003 and PHY 23102.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PHY 36002 APPLICATIONS OF MODERN PHYSICS 3 Credit Hours**

Survey of applications of twentieth century physics. Topics include molecular bonding, conducting and insulating solids, degenerate matter, quantum condensates, subatomic and sub-nuclear particle physics, cosmology.

**Prerequisite:** PHY 36001.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PHY 40020 ADVANCED PHYSICS LABORATORY (WIC) 2 Credit Hours**

(Repeatable for credit) Advanced experiments in classical and modern physics are selected to accompany and to supplement senior-level physics courses.

**Prerequisite:** PHY 30020.

**Pre/corequisite:** 6 credit hours of 40000-level physics courses.

**Schedule Type:** Laboratory

**Contact Hours:** 3 lab

**Grade Mode:** Standard Letter

**Attributes:** Writing Intensive Course

**PHY 40060 PHYSICAL LITERATURE 1-3 Credit Hours**

Study of current or topical literature.

**Prerequisite:** Permission.

**Schedule Type:** Lecture

**Contact Hours:** 1-3 lecture

**Grade Mode:** Standard Letter

**PHY 40092 INTERNSHIP IN PHYSICS (ELR) 1-3 Credit Hours**

(Repeatable for credit) Supervised capstone experience in physics at a national laboratory, a research university in industry or at a local research site. No more than 3 credit hours may be applied toward the major electives for physics majors.

**Prerequisite:** Permission.

**Schedule Type:** Practical Experience

**Contact Hours:** 1-3 other

**Grade Mode:** Satisfactory/Unsatisfactory

**Attributes:** Experiential Learning Requirement

**PHY 40095 SPECIAL TOPICS 1-3 Credit Hours**

(Repeatable for credit) Topic announced when scheduled.

**Prerequisite:** Permission.

**Schedule Type:** Lecture

**Contact Hours:** 1-3 lecture

**Grade Mode:** Standard Letter

**PHY 40096 INDIVIDUAL INVESTIGATION (ELR) 1-6 Credit Hours**

(Repeatable for credit) Individual projects for physics majors.

**Prerequisite:** 20 hours of physics; and special approval of department chairperson.

**Schedule Type:** Individual Investigation

**Contact Hours:** 1-6 other

**Grade Mode:** Standard Letter-IP

**Attributes:** Experiential Learning Requirement

**PHY 40099 SENIOR HONORS THESIS (ELR) 1-10 Credit Hours**

Thesis for departmental, general or university honors must be 1-10 hours with continuous registration throughout the senior year beginning in the summer prior to the senior year. Students taking this course must consult with their department and the Honors College and receive approval prior to the first semester of the senior year.

**Prerequisite:** Honors senior standing; and special approval.

**Schedule Type:** Senior Project/Honors Thesis

**Contact Hours:** 1-10 other

**Grade Mode:** Standard Letter-IP

**Attributes:** Experiential Learning Requirement

**PHY 40195 SPECIAL TOPICS 1-3 Credit Hours**

(Repeatable for credit) (Slashed with PHY 50195) Topic announced when scheduled.

**Prerequisite:** Special approval.

**Schedule Type:** Lecture

**Contact Hours:** 1-3 lecture

**Grade Mode:** Standard Letter

**PHY 41010 BIOPHOTONICS 3 Credit Hours**

(Slashed with PHY 51010) (Cross-listed with BSCI 41110 and BSCI 51110 and CHEM 41010 and CHEM 51010) Interdisciplinary overview of the basics of biophotonics; application of biophotonic techniques to probe biological samples. Introduction to the foundations of optics and photonics and how the molecular structure of organic molecules translates into unique photonic properties and targeting in biological cells or tissue. Preparation of fluorescent materials, advanced spectroscopy and cell visualization using regular and confocal fluorescence microscopy.

**Prerequisite:** Special approval.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 1 lecture, 6 lab

**Grade Mode:** Standard Letter

**PHY 44600 INTRODUCTION TO BIOLOGICAL PHYSICS 3 Credit Hours**

Introduces ideas essential to physical understanding of biological systems. Topics include: introduction to molecular components of the cell; statistical mechanics and transport in biological systems; selected topics in biophysics.

**Prerequisite:** PHY 23102.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PHY 44802 ASTROPHYSICS 3 Credit Hours**

Galactic structure, stellar formation and evolution, origin of the elements (or nucleosynthesis), nonoptical astronomies, and description of various cosmological theories.

**Prerequisite:** MATH 12003.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PHY 45201 ELECTROMAGNETIC THEORY 4 Credit Hours**

Properties of electric and magnetic fields developed by vector methods. Treatment on static fields in vacuum and matter. Theory of classical electromagnetic fields with emphasis on dynamic fields.

**Prerequisite:** MATH 32052 and PHY 23102.

**Schedule Type:** Lecture

**Contact Hours:** 4 lecture

**Grade Mode:** Standard Letter

**PHY 45301 THERMAL PHYSICS 3 Credit Hours**

An introduction to thermodynamics and statistical mechanics, with applications in material science and engineering.

**Prerequisite:** PHY 36001.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PHY 45401 MATHEMATICAL METHODS IN PHYSICS 4 Credit Hours**

Consolidation of vector analysis, curvilinear coordinate systems, tensors, matrix algebra, vector spaces, common groups in physics, calculus of residues, contour integration, methods for differential equations in physics; additional topics important for physics selected from special functions, integral equations, calculus of variations.

**Prerequisite:** MATH 32052.

**Schedule Type:** Lecture

**Contact Hours:** 4 lecture

**Grade Mode:** Standard Letter

**PHY 45403 DATA ANALYSIS AND COMPUTATIONAL PHYSICS TECHNIQUES 3 Credit Hours**

(Slashed with PHY 55403) Study of uncertainties in physical measurements. Data reduction and error analysis techniques. Monte Carlo simulation method. Least-squares fits to data. Basic computational physics techniques.

**Prerequisite:** MATH 12003 and PHY 23102.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PHY 45501 ELECTROMAGNETIC WAVES AND MODERN OPTICS 3 Credit Hours**

Interactions between light and matter from both a macroscopic and microscopic perspective; producing and controlling light devices and spectroscopic techniques based on modern optics.

**Prerequisite:** PHY 45201.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PHY 46101 QUANTUM MECHANICS 4 Credit Hours**

Systematic introduction to the principles and solution techniques of quantum mechanics, including the Schrodinger equation in one and three dimensions. Topics include: angular momentum formalism, introductory Dirac notation and vector space formalism, intrinsic spin, identical particle systems and perturbation theory.

**Prerequisite:** PHY 36001.

**Pre/corequisite:** MATH 32052.

**Schedule Type:** Lecture

**Contact Hours:** 4 lecture

**Grade Mode:** Standard Letter

**PHY 46301 INTRODUCTION TO NUCLEAR AND PARTICLE PHYSICS 4 Credit Hours**

(Slashed with PHY 56301) Introduction to nuclear and particle physics including particle detectors and accelerators, experimental techniques, nuclear fission and fusion, nuclear reactors, medical applications, and connections to astrophysics and cosmology.

**Prerequisite:** PHY 36001.

**Pre/corequisite:** MATH 32052.

**Schedule Type:** Lecture

**Contact Hours:** 4 lecture

**Grade Mode:** Standard Letter

**PHY 46401 INTRODUCTION TO SOLID STATE PHYSICS 3 Credit Hours**

Fundamental unifying concepts and experimental techniques needed to understand thermal, electrical and optical properties of ions and electrons in solids. Special topics of current research.

**Prerequisite:** PHY 36002.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PHY 50020 ADVANCED PHYSICS LAB 2 Credit Hours**

(Repeatable for credit) Advanced experiments in classical and modern physics are selected to accompany and to supplement graduate-level physics courses.

**Prerequisite:** Graduate standing.

**Schedule Type:** Laboratory

**Contact Hours:** 3 lab

**Grade Mode:** Standard Letter

**PHY 50093 VARIABLE TITLE WORKSHOP IN PHYSICS 1-6 Credit Hours**

(Repeatable for credit) Workshops individually designed to provide instruction and training in specific areas of physics.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Workshop

**Contact Hours:** 1-6 other

**Grade Mode:** Satisfactory/Unsatisfactory

**PHY 50095 SPECIAL TOPICS 1-3 Credit Hours**

(Repeatable for credit) Topic announced when scheduled.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 1-3 lecture

**Grade Mode:** Standard Letter

**PHY 50096 INDIVIDUAL INVESTIGATION 1-3 Credit Hours**

(Repeatable for credit) Individual projects for physics graduate students.

**Prerequisite:** Graduate standing.

**Schedule Type:** Individual Investigation

**Contact Hours:** 1-3 other

**Grade Mode:** Standard Letter-IP

**PHY 50195 SPECIAL TOPICS 1-3 Credit Hours**

(Repeatable for credit) (Slashed with PHY 40195) Topic announced when scheduled.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 1-3 lecture

**Grade Mode:** Standard Letter

**PHY 51010 BIOPHOTONICS 3 Credit Hours**

(Slashed with PHY 41010) (Cross-listed with BSCI 41110 and BSCI 51110 and CHEM 41010 and CHEM 51010) Interdisciplinary overview of the basics of biophotonics; application of biophotonic techniques to probe biological samples. Introduction to the foundations of optics and photonics and how the molecular structure of organic molecules translates into unique photonic properties and targeting in biological cells or tissue. Preparation of fluorescent materials, advanced spectroscopy and cell visualization using regular and confocal fluorescence microscopy.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 1 lecture, 6 lab

**Grade Mode:** Standard Letter

**PHY 54600 INTRODUCTION TO BIOLOGICAL PHYSICS 3 Credit Hours**

Introduces ideas essential to physical understanding of biological systems. Topics include: introduction to molecular components of the cell; statistical mechanics and transport in biological systems; selected topics in biophysics.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PHY 54802 ASTROPHYSICS 3 Credit Hours**

Galactic structure, stellar formation and evolution, origin of the elements (or nucleosynthesis), non optical astronomies, and a description of various cosmological theories. Graduate standing.

**Prerequisite:** MATH 12003.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PHY 55201 ELECTROMAGNETIC THEORY 4 Credit Hours**

Properties of electric and magnetic fields developed by vector methods. Treatment of static fields in vacuum and matter. Theory of classical electromagnetic fields with emphasis on dynamic fields.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 4 lecture

**Grade Mode:** Standard Letter

**PHY 55301 THERMAL PHYSICS 3 Credit Hours**

An introduction to thermodynamics and statistical mechanics, with applications in material science and engineering.

**Prerequisite:** PHY 36001; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PHY 55401 MATHEMATICAL METHODS IN PHYSICS 4 Credit Hours**

Consolidation of vector analysis, curvilinear coordinate systems, tensors, matrix algebra, vector spaces, common groups in physics, calculus of residues, contour integration, methods for differential equations in physics; additional topics important for physics selected from special functions, integral equations, calculus of variations.

**Prerequisite:** MATH 32052; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 4 lecture

**Grade Mode:** Standard Letter

**PHY 55403 DATA ANALYSIS AND COMPUTATIONAL PHYSICS TECHNIQUES 3 Credit Hours**

(Slashed with PHY 45403) Study of uncertainties in physical measurements. Data reduction and error analysis techniques. Monte Carlo simulation method. Least-squares fits to data. Basic computational physics techniques.

**Prerequisite:** MATH 12003 and PHY 23102; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter



**PHY 55501 ELECTROMAGNETIC WAVES AND MODERN OPTICS 3 Credit Hours**

Interactions between light and matter from both a macroscopic and microscopic perspective; producing and controlling light; devices and spectroscopic techniques based on modern optics.

**Prerequisite:** PHY 55201; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PHY 56101 QUANTUM MECHANICS 4 Credit Hours**

Systematic introduction to the principles and solution techniques of quantum mechanics, including the Schroedinger equation in one and three dimensions. Topics include: angular momentum formalism, introductory Dirac notation and vector space formalism, intrinsic spin, identical particle systems, and perturbation theory.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 4 lecture

**Grade Mode:** Standard Letter

**PHY 56301 INTRODUCTION TO NUCLEAR AND PARTICLE PHYSICS 4 Credit Hours**

(Slashed with PHY 46301) Introduction to nuclear and particle physics including particle detectors and accelerators, experimental techniques, nuclear fission and fusion, nuclear reactors, medical applications, and connections to astrophysics and cosmology.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 4 lecture

**Grade Mode:** Standard Letter

**PHY 56401 INTRODUCTION TO SOLID STATE PHYSICS 3 Credit Hours**

Fundamental unifying concepts and experimental techniques needed to understand thermal, electrical and optical properties of ions and electrons in solids. Special topics of current research.

**Prerequisite:** PHY 36002; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PHY 60091 PHYSICS SEMINAR 1 Credit Hour**

(Repeatable for credit) Discussion of current literature or of original research in physics. Participation by students, faculty and guests.

**Prerequisite:** Graduate standing.

**Schedule Type:** Seminar

**Contact Hours:** 1 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**PHY 60093 VARIABLE TITLE WORKSHOP IN PHYSICS 1-6 Credit Hours**

(Repeatable for credit) Workshops individually designed to provide instruction and training in specific areas of physics.

**Prerequisite:** Graduate standing.

**Schedule Type:** Workshop

**Contact Hours:** 3 other

**Grade Mode:** Satisfactory/Unsatisfactory

**PHY 60094 COLLEGE TEACHING OF PHYSICS 1-3 Credit Hours**

(Repeatable for credit) Methodology of teaching in a university, college or junior college. Includes observation of kinds of teaching and practice teaching.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 1-3 lecture

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**PHY 60098 RESEARCH 1-15 Credit Hours**

(Repeatable for credit) Research or individual investigation. Credits earned may be applied toward meeting degree requirements if department approves.

**Prerequisite:** Graduate standing.

**Schedule Type:** Research

**Contact Hours:** 1-15 other

**Grade Mode:** Standard Letter-IP

**PHY 60199 THESIS I 2-6 Credit Hours**

Thesis students must register for total of 6 hours, 2 to 6 hours in a single semester distributed over several semesters if desired.

**Prerequisite:** Graduate standing; and special approval of advisor.

**Schedule Type:** Masters Thesis

**Contact Hours:** 2-6 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**PHY 60295 ADVANCED TOPICS 1-3 Credit Hours**

(Repeatable for credit) Selected special topics of current research interest.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter-IP

**PHY 60299 THESIS II 2 Credit Hours**

Thesis students must continue registration each semester until all degree requirements are met.

**Prerequisite:** PHY 60199; and graduate standing.

**Schedule Type:** Masters Thesis

**Contact Hours:** 2 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**PHY 64101 ADVANCED PROBLEM SOLVING IN PHYSICS 3 Credit Hours**

(Slashed with 741010) The course imparts advanced problem-solving skills not acquired in regular courses. Examples from four basic areas of physics (classical mechanics, electricity and magnetism, quantum mechanics and statistical physics) will be emphasized.

**Prerequisite:** PHY 65101 or PHY 65203 or PHY 66161 or PHY 65301; or graduate standing; and departmental instructor approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PHY 65101 CLASSICAL MECHANICS 3 Credit Hours**

Lagrange's equations, variational principles, two-body central force problem and rigid body motion. Hamilton's equations, canonical transformations, Hamilton-Jacobi theory and small oscillations.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PHY 65203 CLASSICAL ELECTRODYNAMICS I 3 Credit Hours**

Introduction to electrostatics, boundary-value problems, multipoles, electrostatics of macroscopic media, magnetostatics, time-varying fields, Maxwell's equations, conservation laws.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PHY 65204 CLASSICAL ELECTRODYNAMICS II 3 Credit Hours**

Plane electromagnetic waves, simple radiating systems, scattering, special theory of relativity, relativistic dynamics, radiation of moving charges, Bremsstrahlung.

**Prerequisite:** PHY 65203; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PHY 65301 STATISTICAL MECHANICS I 4 Credit Hours**

An introduction to statistical mechanics, including classical and quantum statistics. Derives thermodynamic quantities from a statistical viewpoint.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 4 lecture

**Grade Mode:** Standard Letter

**PHY 66161 QUANTUM MECHANICS I 3 Credit Hours**

Fundamental concepts of non-relativistic quantum mechanics. Solution of simple one dimensional problems. Abstract Hilbert-space description. Matrix representations. Quantum dynamics. Extension to three dimensions. Spin and orbital angular momentum.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PHY 66162 QUANTUM MECHANICS II 3 Credit Hours**

Angular momentum theory. Symmetries and conservation laws. Application of approximation methods to realistic problems. Systems of identical particles. Scattering theory. Relativistic single particle wave equations.

**Prerequisite:** PHY 66161; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PHY 66201 PARTICLE PHYSICS 3 Credit Hours**

Discussion of particle detectors, invariance principles and conservation laws, fundamental interactions, quark model of hadrons, basic concepts of field theory, the Standard Model and selected topics of current interest.

**Prerequisite:** PHY 66162; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PHY 66302 MODERN NUCLEAR PHYSICS 3 Credit Hours**

Survey of basic physics of nucleons and nuclei including associated experimental techniques, emphasizing interaction of radiation with matter. Applications covered include detectors, electron scattering from nuclei, quark-parton model of the nucleon, heavy-ion collisions, quark-gluon plasma, and nuclear astrophysics.

**Prerequisite:** PHY 56101; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PHY 66401 SOLID STATE PHYSICS I 3 Credit Hours**

Crystalline state, with emphasis on wave propagation, zone and band theory, phonons. Applications to electrical and thermal conductivities, specific heats, optical, dielectric and magnetic properties.

**Prerequisite:** PHY 56101 or PHY 66161; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PHY 66403 ADVANCED CONDENSED MATTER PHYSICS 3 Credit Hours**

(Slashed with PHY 76403) Advanced theories of solids, fluids, superfluids, magnetic, ferroelectric and liquid crystal systems and the experimental methods that probe them.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PHY 68401 LIQUID CRYSTAL PHYSICS 3 Credit Hours**

The molecular structure and properties of liquid crystals and their role in biological systems and industrial applications.

**Prerequisite:** Graduate standing in physics or chemical physics.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PHY 70094 COLLEGE TEACHING OF PHYSICS 1-3 Credit Hours**

(Repeatable for credit) Methodology of teaching in a university, college or junior college. Includes observation of kinds of teaching and practice teaching.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 1-3 lecture

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**PHY 70095 SPECIAL TOPICS 1-3 Credit Hours**

(Repeatable for credit) Topic announced when scheduled.

**Prerequisite:** Doctoral standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 1-3 lecture

**Grade Mode:** Standard Letter

**PHY 74101 ADVANCED PROBLEM SOLVING IN PHYSICS 3 Credit Hours**

The course imparts advanced problem-solving skills not acquired in regular courses. Examples from four basic areas of physics (classical mechanics, electricity and magnetism, quantum mechanics and statistical physics) will be emphasized.

**Prerequisite:** PHY 65101 or PHY 65203 or PHY 66161 or PHY 65301; or doctoral standing; and departmental instructor approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PHY 75101 CLASSICAL MECHANICS 3 Credit Hours**

Lagrange's equations, variational principles, two-body central force problems, rigid body motion, Hamilton's equations, canonical transformations, Hamilton-Jacobi theory, small oscillations.

**Prerequisite:** Doctoral standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PHY 75203 CLASSICAL ELECTRODYNAMICS I 3 Credit Hours**

Introduction to electrostatics, boundary value problems, multipoles, electrostatics of macroscopic media, magnetostatics, time-varying fields, Maxwell's equations, conservation laws.

**Prerequisite:** Doctoral standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PHY 75204 CLASSICAL ELECTRODYNAMICS II 3 Credit Hours**

Plane electromagnetic waves, simple radiating systems, scattering special theory of relativity, relativistic dynamics, radiation of moving charges, Bremsstrahlung.

**Prerequisite:** PHY 65203; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PHY 75301 STATISTICAL MECHANICS I 4 Credit Hours**

An introduction to statistical mechanics, including classical and quantum statistics. Derives thermodynamic quantities from a statistical viewpoint.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 4 lecture

**Grade Mode:** Standard Letter

**PHY 76161 QUANTUM MECHANICS I 3 Credit Hours**

Fundamental concepts of non-relativistic quantum mechanics. Solution of simple one dimensional problems. Abstract Hilbert space description. Matrix representations. Quantum dynamics. Extension to three dimensions. Spin and orbital angular momentum.

**Prerequisite:** Doctoral standing; and permission.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PHY 76162 QUANTUM MECHANICS II 3 Credit Hours**

Angular momentum theory. Symmetries and conservation laws. Application of approximation methods to realistic problems. Systems of identical particles. Scattering theory. Relativistic single particle wave equations.

**Prerequisite:** PHY 66161; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PHY 76163 QUANTUM MECHANICS III 3 Credit Hours**

Second quantization and field theory formalism are developed for the many-particle system. Topics include the electron gas and nuclear matter.

**Prerequisite:** PHY 66162; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PHY 76201 PARTICLE PHYSICS 3 Credit Hours**

Discussion of particle detectors, invariance principles and conservation laws, fundamental interactions, quark model of hadrons, basic concepts of a field theory, the Standard Model and selected topics of current interest.

**Prerequisite:** PHY 66162 or 76162; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PHY 76303 APPLICATIONS OF QUANTUM CHROMODYNAMICS 3 Credit Hours**

Introduces the key attributes and techniques of Quantum Chromodynamics, which is the relativistic quantum field theory of the strong interaction. Topics treated include the properties, structure and interactions of strongly interacting sub-nuclear particles (hadrons) and the physics of hadronic and nuclear matter at finite temperature and density, as applicable to modern nuclear particle physics research.

**Prerequisite:** PHY 76163.

**Corequisite:** PHY 66201 or PHY 76201.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PHY 76401 SOLID STATE PHYSICS I 3 Credit Hours**

Crystalline state, with emphasis on wave propagation zone and band theory phonons. Applications to electrical and thermal conductivities specific heats optical dielectric and magnetic properties.

**Prerequisite:** PHY 56101 or PHY 66161 or 76161; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PHY 76403 ADVANCED CONDENSED MATTER PHYSICS 3 Credit Hours**

(Slashed with PHY 66403) Advanced theories of solids, fluids, superfluids, magnetic, ferroelectric and liquid crystal systems, and the experimental methods that probe them.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PHY 78401 LIQUID CRYSTAL PHYSICS 3 Credit Hours**

The molecular structure and properties of liquid crystals and their role in biological systems and industrial applications.

**Prerequisite:** Doctoral standing in physics or chemical physics.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PHY 80091 PHYSICS SEMINAR 1 Credit Hour**

(Repeatable for credit) Discussion of current literature or of original research in physics. Participation by students, faculty and guests.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Seminar

**Contact Hours:** 1 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**PHY 80097 PHYSICS COLLOQUIUM 1 Credit Hour**

(Repeatable for credit) Presentation by invited speakers of research and other topics on graduate level followed by discussion period. Regular attendance of all physics majors expected. Three or more meetings each semester as arranged.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Colloquium

**Contact Hours:** 1 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**PHY 80098 RESEARCH 1-15 Credit Hours**

(Repeatable for credit) Research or individual investigation for doctoral students who have not yet passed their candidacy exams. Credit earned may be applied toward the degree if the department approves.

**Prerequisite:** Doctoral standing; and special approval.

**Schedule Type:** Research

**Contact Hours:** 1-15 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**PHY 80199 DISSERTATION I 15 Credit Hours**

(Repeatable for credit) Doctoral dissertation, for which registration in at least two semesters is required; the first of which will be the semester in which dissertation work is begun, and continuing until the completion of 30 hours.

**Prerequisite:** Doctoral standing; and special approval.

**Schedule Type:** Dissertation

**Contact Hours:** 15 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**PHY 80299 DISSERTATION II 15 Credit Hours**

(Repeatable for credit) Continuing registration required of doctoral students who have completed the initial 30 hours of dissertation and continuing until all degree requirements are met.

**Prerequisite:** PHY 80199; and doctoral standing.

**Schedule Type:** Dissertation

**Contact Hours:** 15 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

## Department of Political Science

### Political Science (POL)

**POL 10001 INTRODUCTION TO POLITICAL SCIENCE 3 Credit Hours**

Introduction to the history and structure of political science, including its relationship to neighboring disciplines. Course asks what does it mean to study politics? What does it mean to study politics scientifically? What are the consequences of different conceptions of politics?

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**POL 10004 COMPARATIVE POLITICS (DIVG) (KSS) 3 Credit Hours**

Introduces the different institutional structures of governance (e.g., parliamentary versus presidential systems) in a range of different states for different types of regimes (e.g. democratic and authoritarian) and at the international level.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Diversity Global, Kent Core Social Sciences, TAG Social and Behavioral Sciences, Transfer Module Social Sciences

**POL 10100 AMERICAN POLITICS (DIVD) (KSS) 3 Credit Hours**

Covers the basic elements of politics at the national level in the United States, including structures, processes, behaviors, institutions, policies. Special emphasis is given to conflicting theories of power as they apply to different economic, sexual and racial groups.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Diversity Domestic, Kent Core Social Sciences, TAG Social and Behavioral Sciences, Transfer Module Social Sciences

**POL 10300 PUBLIC POLICY 3 Credit Hours**

Course provides a survey of basic public policy concepts and processes within an historical context. Course incorporates applied work to bridge conceptual understanding and empirical cases.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**POL 10500 WORLD POLITICS (DIVG) (KSS) 3 Credit Hours**

A practical, theoretical introduction to a study of systematic patterns in international relations. Includes analysis of rules, instruments, processes, decision-making factors, conflict resolution.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Diversity Global, Kent Core Social Sciences, TAG Social and Behavioral Sciences, Transfer Module Social Sciences

**POL 10504 THE NEW PANGAEA: YOUR ROLE IN OUR GLOBAL COMMUNITY 3 Credit Hours**

Introduces students to the myriad ways in which they are individually and collectively connected to the global community. Looking specifically at ways in which people are interconnected as consumers, patients, donors and participants in discourse, the course introduces students to the concepts, institutions and dynamics of globalization. Through assignments that focus on important global issues and engage students directly with the global community, students will (a) learn how to engage the global community as informed consumers of information, (b) understand the basic structure of the global political arena, (c) learn how to engage actively and consciously within that arena and (d) understand the ways in which their daily behavior impacts global trends.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**POL 30000 MAY 4 1970 AND ITS AFTERMATH 3 Credit Hours**

(Cross-listed with PACS 30000) Study of the events of the 1960s in the United States leading up to May 4, 1970, when the Ohio National Guard killed and wounded Kent State University students protesting the war in Vietnam and Cambodia. Topics are considered within their cultural, historical, social and political contexts. Course also examines the aftermath of May 4, including the controversy over constructing the Gym Annex on the site of the shootings, the legal trials, the role of commemorations and memorials and the politics of remembering May 4, 1970.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**POL 30001 RESEARCH METHODS (ELR) 3 Credit Hours**

Course is designed to bring students to a basic level of 'statistical literacy' by introducing the fundamentals of research design and interpretation; as well as to basic descriptive and inferential statistics.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Experiential Learning Requirement

**POL 30002 POLITICAL THOUGHT 3 Credit Hours**

Courses introduces students to basic methodological and substantive concerns in the tradition of western political thought.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**POL 30003 POLITICAL ECONOMY 3 Credit Hours**

Introduction to the fundamental questions surrounding the relationship between the public and private sectors, considered from the perspective of the state and its major political institutions. Of central concern is the growing internationalization of capital and its consequences for both domestic and international politics.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**POL 30100 AMERICAN POLITICAL THEORY 3 Credit Hours**

Major political ideas and controversies associated with the development of American political thought. Nonmajors should contact the Department of Political Science for a prerequisite override.

**Prerequisite:** POL 10100.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**POL 30110 THE CONGRESS 3 Credit Hours**

Course covers the powers of Congress, its organization, leadership of the two houses, role of the parties, relationships with the chief executive and the executive agencies, as well as recent reforms enacted by the House and Senate.

**Prerequisite:** POL 10100.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**POL 30120 PRESIDENCY AND EXECUTIVE BUREAUCRACY 3 Credit Hours**

Intensive study of the American presidency, focusing on personality, organization of the office, use and misuse of power and policy making.

**Prerequisite:** POL 10100.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**POL 30130 THE JUDICIAL PROCESS 3 Credit Hours**

Intensive study of the judicial process in United States and the relationship between the judicial system and the larger American social system. Nonmajors should contact the Department of Political Science for a prerequisite override.

**Prerequisite:** POL 10100.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**POL 30300 PUBLIC POLICY THEORY 3 Credit Hours**

The core issues of public policy process, institutional contexts and ethical considerations form the basis of this introductory survey of traditional and contemporary theories of public policy.

**Prerequisite:** POL 10300.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**POL 30301 INTRODUCTION TO PUBLIC ADMINISTRATION 3 Credit Hours**

Introduction to the theory and practice of governmental administration, including structure, organization, direction and control of governmental departments and agencies.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**POL 30310 PUBLIC POLICY ANALYSIS 3 Credit Hours**

Introduces students to the political and economic tools used to analyze public policies and discusses the political elements influencing that analysis. Essentially, the goal is to ensure that students understand the basic economic principles used to evaluate different public policy proposals while questioning the assumptions underlying those economic assumptions.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**POL 30350 ENVIRONMENTAL CONFLICT RESOLUTION 3 Credit Hours**

(Cross-listed with PACS 35050) Examines alternative dispute resolution principles applicable to complex, multi-party public sector disputes, especially environmental and land use disputes. Students learn about deliberative democracy, a variety of circle processes, consensus decision-making, collaborative problem-solving, digital dialogue processes and town hall meeting structures, among others. Case studies of environmental conflicts and multi-party mediation simulations are used.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**POL 30430 OHIO POLITICS 3 Credit Hours**

Addresses the history, structure, and current practices of politics and public policy in Ohio.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**POL 30450 URBAN POLITICS AND POLICY 3 Credit Hours**

Discusses local governance in the context of metropolitan change, and covers issues such as governing capacity, local democracy, individual choice and economic and racial inequality. Examines the formal and informal arrangements that shape change and public policy. Nonmajors should contact the Department of Political Science for a prerequisite override.

**Prerequisite:** POL 10100 or POL 10300.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter



**POL 30460 STATE POLITICS AND POLICY 3 Credit Hours**

Introduces the theoretical and legal infrastructures of federalism and intergovernmental relations, with a particular emphasis on political and policy operations at the state level. Political behavior and institutions, as well as the specifics of selected, substantive policy areas are emphasized.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**POL 30500 INTERNATIONAL RELATIONS THEORY 3 Credit Hours**

Course introduces competing theoretical approaches to the study of international relations; an examination of the historical developments followed by an examination of current issues in world politics.

**Prerequisite:** POL 10500.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**POL 30511 PROBLEMS OF INTERNATIONAL ORGANIZATION 3 Credit Hours**

Intensive study of major European problems handled by international organizations, including the United Nations and nongovernmental organizations. Combines classroom and field investigations. Registration in the Geneva semester required.

**Prerequisite:** Special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**POL 30520 EUROPEAN POLITICS (DIVG) 3 Credit Hours**

Examines major European national political systems (British, French, German, Russian and Scandinavian) relations between the European states, the institutions of the European Union and prospects and problems of European integration.

**Prerequisite:** POL 10004 or POL 10500.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Diversity Global

**POL 30530 ASIAN POLITICS (DIVG) 3 Credit Hours**

Introduction to the political, economic and social dynamics of Asia, from Siberia in the north to the Indian Ocean in the south, and from the Pacific Ocean in the east to the Hindu Kush in the west. The first part of the course examines Asia's modern political history (particularly the past half-century). The second part of the course focuses on contemporary issues, including the roles of the United States and sub-regional actors, such as the Association of Southeast Asian Nations (ASEAN).

**Prerequisite:** POL 10004 or POL 10500.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Diversity Global

**POL 30540 AFRICAN POLITICS (DIVG) 3 Credit Hours**

An analysis of major issues in African politics and international relations. The contemporary development of Africa will be analyzed in the global context of the historical forces of imperialism and colonialism.

**Prerequisite:** POL 10004 or POL 10500.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Diversity Global

**POL 30550 LATIN AMERICAN POLITICS (DIVG) 3 Credit Hours**

Analysis of political culture/process in selected Latin American states, with particular emphasis on Mexico, Brazil, Argentina and Columbia.

**Prerequisite:** POL 10004 or POL 10500.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Diversity Global

**POL 30560 MIDDLE EAST POLITICS (DIVG) 3 Credit Hours**

Introduces students to the theory and context of politics in the Middle East in a way that contests the often-simplistic stereotypes communicated through Western media and throughout Western culture, in order to encourage a more nuanced appreciation of the Middle East. Theoretical approaches utilized include modernization, dependency, structuralism and constructivism.

**Prerequisite:** POL 10004 or POL 10500.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Diversity Global

**POL 30570 PALESTINE AND ISRAEL 3 Credit Hours**

Course introduces students to academic approaches and theories that attempt to understand the situation in historic Palestine. The course is divided into four sections: (1) Theories of settler colonialism and basic differences between Judaism, Zionism and Israeli society, as well as diversity within Palestinian society. (2) Comparative studies of the establishment of the modern state of Israel, which Palestinians view in their collective experience as "the Catastrophe" or al-Nakba. (3) The occupation of East Jerusalem, the West Bank and Gaza, and how that system has changed over time. (4) Pathways forward for Palestinians and Israelis.

**Prerequisite:** Sophomore standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**POL 30810 POLITICS OF THE GLOBAL ECONOMY 3 Credit Hours**

Examines interaction between economics and politics in international relations. Topics include poverty and uneven economic development, political prerequisites for free trade, intra-western and north-south economic conflict and distributive justice.

**Prerequisite:** POL 10004 or POL 10500.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**POL 30820 INTERNATIONAL ORGANIZATION AND LAW 3 Credit Hours**

Course introduces the subject matter in historical and theoretical contexts, then devotes detailed attention to the full range of international organizations that exist today. A final section addresses the role of international law in world politics.

**Prerequisite:** POL 10004 or POL 10500.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**POL 30840 NONGOVERNMENTAL ORGANIZATIONS 3 Credit Hours**

Introduction to the diverse range of nongovernmental organizations that exist today. Course explores the varying roles on nongovernmental organizations in setting agendas, shaping legislation and implementing public policy reforms.

**Prerequisite:** POL 10004 or POL 10300 or POL 10500.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**POL 39592 GENEVA INTERNSHIP (ELR) 3 Credit Hours**

(Repeatable for credit) Students perform intern duties as part of the semester in Geneva.

**Prerequisite:** None.

**Schedule Type:** Practical Experience

**Contact Hours:** 21 other

**Grade Mode:** Standard Letter

**Attributes:** Experiential Learning Requirement

**POL 40091 VARIABLE TOPIC SEMINAR 3 Credit Hours**

(Slashed with POL 50091 and POL 70091) Variable topic seminar in political science.

**Prerequisite:** POL 10004 or POL 10500; and POL 10100 or POL 10300; and POL 30001; and sophomore standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**POL 40112 POLITICS AND THE MASS MEDIA 3 Credit Hours**

Course examines the multiple roles played by the mass media in contemporary politics and analyzes the implications of those roles. Nonmajors should contact the Department of Political Science for a prerequisite override.

**Prerequisite:** POL 10100.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**POL 40116 PUBLIC OPINION AND POLITICAL BEHAVIOR 3 Credit Hours**

Analysis of determinants of public opinion and political behavior. Study of how public makes up its mind and impact of public opinion on government policy.

**Prerequisite:** POL 10100.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**POL 40118 POLITICAL PARTIES AND INTEREST GROUPS 3 Credit Hours**

An examination of the changing roles of political parties and interest groups in the American political system, including a comparison of their respective electoral activities.

**Prerequisite:** POL 10100.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**POL 40168 MOOT COURT I 2 Credit Hours**

Prepares students for oral advocacy in a simulated court room experience known as moot court. Preparation includes learning pre-trial and trial processes, including case evaluation, legal investigation, discovery and motion practice and trial processes.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**POL 40171 MOOT COURT II 1 Credit Hour**

Prepares students to engage in oral advocacy by using a learning experiential exercise, including a regional competition hosted by the American Collegiate Mock Trial Association, known as moot court. Students perform relevant roles (including case evaluation and strategy, legal investigation, discovery and motion practice, and trial preparation) both in the competition and in preparing a hypothetical case for trial.

**Prerequisite:** POL 40168.

**Schedule Type:** Lecture

**Contact Hours:** 1 lecture

**Grade Mode:** Standard Letter

**POL 40182 CONSTITUTIONAL LAW: GOVERNMENTAL STRUCTURES AND FUNCTIONS 3 Credit Hours**

Nature and scope of constitutional government. Study of judicial review, separation of powers, federalism, commerce and taxation.

**Prerequisite:** POL 10100.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**POL 40183 CONSTITUTIONAL LAW: CIVIL RIGHTS AND LIBERTIES (DIVD) 3 Credit Hours**

Nature and scope of constitutional limitations. Study of first amendment, freedom of expression, freedom of religion, criminal rights, due process, equal protection.

**Prerequisite:** POL 10100.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Diversity Domestic

**POL 40191 SEMINAR IN AMERICAN POLITICS (WIC) 3 Credit Hours**

(Repeatable for credit) A required, writing-intensive seminar for juniors and seniors in the American Politics concentration. The focus of the seminar varies depending on content and instructor.

**Prerequisite:** POL 10004 or 10500; and POL 10100 or 10300; and POL 30001 and POL 30002 (or POL 30003); and political science major.

**Schedule Type:** Seminar

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**Attributes:** Writing Intensive Course

**POL 40320 ETHICS AND PUBLIC POLICY 3 Credit Hours**

The ethical obligations of public policy makers are examined in this course, within a series of applied cases. The goal is to empower students with the intellectual tools of critical analysis within diverse policy environments.

**Prerequisite:** POL 10300.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**POL 40391 SEMINAR IN PUBLIC POLICY (WIC) 3 Credit Hours**  
(Repeatable for credit) A required, writing intensive seminar for juniors and seniors in the Public Policy concentration. The focus of the seminar varies depending on content and instructor.

**Prerequisite:** POL 10004 or POL 10500; and POL 10100 or 10300; and POL 30001 and POL 30002 (or POL 30003); and political science major.

**Schedule Type:** Seminar

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**Attributes:** Writing Intensive Course

**POL 40410 REGULATORY POLICY 3 Credit Hours**

Provides an advanced understanding of the nature of government regulation: its definition; the institutions and groups involved in developing it; and current practices. The focus is on analyzing why regulation exists and how regulatory agencies function.

**Prerequisite:** POL 10100 or POL 10300.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**POL 40440 U.S. ENVIRONMENTAL POLITICS AND POLICIES 3 Credit Hours**

Course covers such topics as the history of the U.S. environmental movement; public opinion and environmental issues; environmental racism and classism; and environmental policy making and implementation.

**Prerequisite:** POL 10100 or POL 10300.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**POL 40450 HEALTH CARE AND SOCIAL POLICY 3 Credit Hours**

Addresses health care policy in the United States from both theoretical (political, economic as well as public policy) and substantive perspectives at the state, national and comparative-international levels. Further, the examination of health care policy takes place in the context of social welfare policy more broadly considered.

**Prerequisite:** POL 10100 or POL 10300.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**POL 40470 WOMEN, POLITICS AND POLICY (DIVD) 3 Credit Hours**

Examines origins, development and current record of century-old women's movement unique in U.S. annals; compares it with other contemporary social movements. Examines issues of women and public policy.

**Prerequisite:** POL 10100 or POL 10300.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Diversity Domestic

**POL 40530 POLITICS OF WAR 3 Credit Hours**

Examines central questions concerning the justification, explanation characteristic features and consequences of war. Specific cases are examined such as World War II, the Chinese Revolution, Vietnam's civil war and potential nuclear war.

**Prerequisite:** POL 10004 or POL 10500.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**POL 40540 POLITICS OF DEVELOPMENT (DIVG) 3 Credit Hours**

Examines practice, record and theories of political development for less developed, developing and developed political systems. Includes extensive analysis of issues, problems through case studies.

**Prerequisite:** POL 10004 or POL 10500.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Diversity Global

**POL 40560 HUMAN RIGHTS AND SOCIAL JUSTICE (DIVG) 3 Credit Hours**

Examines the relationship between human rights and problems of the Third World in the civic, political, social and cultural arenas. Particular attention is placed on the struggle of women.

**Prerequisite:** POL 10004 or POL 10500.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Diversity Global

**POL 40591 SEMINAR IN INTERNATIONAL RELATIONS-COMPARATIVE POLITICS (WIC) 3 Credit Hours**

(Repeatable for credit) A required, writing-intensive seminar for juniors or seniors in the International Relations-Comparative Politics concentration. The focus of the seminar varies depending on content and instructor.

International Relations majors who have completed POL 10004, POL 10500 and 6 credit hours of courses in the International Relations-Comparative Politics concentration may request a prerequisite override from the Department of Political Science.

**Prerequisite:** POL 10004 or POL 10500; and POL 10100 or POL 10300; and POL 30002 or POL 30003; and political science major.

**Schedule Type:** Seminar

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**Attributes:** Writing Intensive Course

**POL 40620 POLITICS OF SOCIAL MOVEMENTS (DIVD) 3 Credit Hours**

Examines the role of social movements both in the United States and around the world. Focuses on labor, environmental, social justice and other initiatives in the push for political and economic democracy. North-South, public-private, labor-management and regional perspectives are emphasized.

**Prerequisite:** POL 10004 or POL 10100 or POL 10500.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Diversity Domestic

**POL 40840 COMPARATIVE FOREIGN POLICY 3 Credit Hours**

Comparative analysis of foreign policy patterns and determinants on the basis of the examination of foreign policy of selected countries.

**Prerequisite:** POL 10004 or POL 10300 or POL 10500.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**POL 40930 U.S. FOREIGN POLICY 3 Credit Hours**

Examines policy objectives, patterns of decision-making and foreign policy actions, roles of interest groups, public opinion, congress, executive and external influences on policy.

**Prerequisite:** POL 10004 or POL 10100 or POL 10500.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**POL 40980 COLUMBUS PROGRAM IN STATE ISSUES (ELR) 15 Credit Hours**

(Repeatable for credit) Annual fall semester resident-study in Columbus. Students spend three days per week working at an internship and two days per week attending briefings and completing course studies.

**Prerequisite:** Minimum 2.500 overall GPA; and special approval.

**Schedule Type:** Lecture, Practical Experience, Seminar

**Contact Hours:** 7 lecture, 24 other

**Grade Mode:** Standard Letter

**Attributes:** Experiential Learning Requirement

**POL 40981 WASHINGTON PROGRAM IN NATIONAL ISSUES (ELR) 15 Credit Hours**

(Repeatable for credit) Annual spring semester resident-study in Washington, D.C. Credit hours divided among three units: lecture and course work, on-site briefings seminar and internship.

**Prerequisite:** Minimum 2.750 overall GPA; and junior standing; and special approval.

**Schedule Type:** Lecture, Practical Experience, Seminar

**Contact Hours:** 7 lecture, 24 other

**Grade Mode:** Standard Letter

**Attributes:** Experiential Learning Requirement

**POL 40992 INTERNSHIP (ELR) 1-3 Credit Hours**

(Repeatable for maximum 6 credit hours) Allows academic credit for approved participation in variety of political processes, or as an intern with governmental or private agencies dealing with public affairs.

**Prerequisite:** Minimum 2.000 overall GPA; and special approval.

**Schedule Type:** Field Experience

**Contact Hours:** 3-9 other

**Grade Mode:** Satisfactory/Unsatisfactory

**Attributes:** Experiential Learning Requirement

**POL 40993 VARIABLE TITLE WORKSHOP IN POLITICAL SCIENCE 1-6 Credit Hours**

(Repeatable for credit) Workshop topic varies per course offering.

**Prerequisite:** None.

**Schedule Type:** Workshop

**Contact Hours:** 1-6 other

**Grade Mode:** Satisfactory/Unsatisfactory

**POL 40995 SELECTED TOPICS IN POLITICAL SCIENCE 1-3 Credit Hours**

(Repeatable for credit) Special course, not regularly offered. Subject varies depending on the emerging issue, staff availability and competencies.

**Prerequisite:** Junior or senior standing.

**Schedule Type:** Lecture

**Contact Hours:** 1-3 lecture

**Grade Mode:** Standard Letter

**POL 40996 INDEPENDENT STUDY 1-3 Credit Hours**

(Repeatable for credit) For students desiring research into subjects beyond level of completed course work, or on subjects for which no regular course is offered.

**Prerequisite:** Any two of the following courses: POL 10004, POL 10100, POL 10300, and POL 10500; minimum 2.750 overall GPA; and junior standing; and special approval.

**Schedule Type:** Individual Investigation

**Contact Hours:** 1-3 other

**Grade Mode:** Standard Letter-IP

**POL 50091 VARIABLE TOPIC SEMINAR 3 Credit Hours**

(Slashed with POL 40091 and POL 70091) Variable topic seminar in political science.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**POL 51191 SEMINAR: PROBLEMS IN AMERICAN GOVERNMENT 3 Credit Hours**

(Repeatable for credit) For graduate students outside of political science who wish to take an undergraduate American government course for graduate credit. Students must meet all of the requirements of the 40000-level course and complete additional work as agreed upon by the instructor. May be taken more than once but never for more than 3 credit hours in any one semester. Instructor and course content may vary from semester to semester.

**Prerequisite:** Graduate standing.

**Schedule Type:** Seminar

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter-IP

**POL 51391 SEMINAR: PROBLEMS IN PUBLIC POLICY 3 Credit Hours**

(Repeatable for credit) For graduate students outside of political science who wish to take an undergraduate public policy course for graduate credit. Students must meet all of the requirements of the 40000-level course and complete additional work as agreed upon by the instructor. May be taken more than once but never for more than 3 credit hours in any one semester. Instructor and course content may vary from semester to semester.

**Prerequisite:** Graduate standing.

**Schedule Type:** Seminar

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter-IP

**POL 51591 SEMINAR: PROBLEMS IN INTERNATIONAL RELATIONS/COMPARATIVE GOVERNMENT 3 Credit Hours**

(Repeatable for credit) For graduate students outside of political science who wish to take an undergraduate international/comparative government course for graduate credit. Students must meet all of the requirements of the 40000-level course and complete additional work as agreed upon by the instructor. May be taken more than once but never for more than 3 credit hours in any one semester. Instructor and course content may vary from semester to semester.

**Prerequisite:** Graduate standing.

**Schedule Type:** Seminar

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter-IP

**POL 60002 SCOPE AND EPISTEMOLOGY 3 Credit Hours**

(Slashed with POL 70002) Introduces students to the philosophy of science and scientific inquiry within the context of the social sciences. Course presents a broad survey of leading paradigms and debates within political science.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**POL 60003 QUANTITATIVE METHODS I 3 Credit Hours**

(Slashed with POL 70003) Provides a selective introduction to basic quantitative methods for the analysis of political and public policy data dealing with basic descriptive and inferential statistics.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**POL 60004 QUANTITATIVE METHODS II 3 Credit Hours**

(Slashed with POL 70004) Introduces students to multivariate quantitative techniques appropriate for the analysis of political and public policy data.

**Prerequisite:** POL 60003; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**POL 60010 QUALITATIVE RESEARCH METHODS 3 Credit Hours**

(Slashed with POL 70010) Introduces the principles and methods of qualitative research, examining the place of qualitative research alongside discussions about positivist, interpretivist and critical approaches. A variety of qualitative research methods are introduced including social observation and ethnography, interviewing, discourse analysis, oral history, document analysis, historical analysis and case studies.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**POL 60099 CAPSTONE SEMINAR 3 Credit Hours**

Directed research to use completed coursework to identify ways in which scholarship speaks to application, e.g., in the non-profit, policy, consulting or programming world.

**Prerequisite:** Graduate standing.

**Schedule Type:** Master's Project, Research

**Contact Hours:** 3 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**POL 60101 STATUS OF THE FIELD: AMERICAN POLITICS AND POLICY 3 Credit Hours**

(Slashed with POL 70101) Course provides a broad survey of the policy-making process in the U.S. government. Coverage includes formal government structures, as well as more informal networks of private groups that seek to influence public policy at the national level.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**POL 60102 AMERICAN POLICY PROCESS 3 Credit Hours**

(Slashed with POL 70102) Course emphasizes the politics of the policy process. Among topics covered are theories of policy formulation implementation and evaluation.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**POL 60103 CONGRESS, THE PRESIDENCY AND THE COURTS 3 Credit Hours**

(Slashed with POL 70103) Focuses on the three branches of the U.S. government, specifically Congress, the presidency and the judiciary. Coverage includes institutional rules and procedures that shape the incentives of these political actors and ultimately policy outcomes.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**POL 60105 FEDERALISM AND STATE POLICYMAKING 3 Credit Hours**

(Slashed with POL 70105) Course covers the theory and practice of federalism, with emphasis on its consequences for policy outcomes. Students also examine the transformation of the policy role of state governments in recent years.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**POL 60106 URBAN POLICY AND POLITICS 3 Credit Hours**

(Slashed with POL 70106) Urban public policy takes place within the context of suburbanization and metropolitan sprawl. Issues raised in this course include poverty, race and the role of business in local policymaking.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**POL 60108 AMERICAN POLITICAL BEHAVIOR 3 Credit Hours**

(Slashed with POL 70108) Explores scholarship on the behavior of non-elite political actors, including various forms of electoral participation, voting, psychological attachment, affect, cognition, perception, attitude and belief. Additional topics include ethnic, racial and gender politics; political participation; voting choice; political psychology; politics and networks; macro politics; and connecting individual-level and macro-level findings with democratic outcomes and citizen capacity.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**POL 60191 SEMINAR IN AMERICAN POLITICS AND POLICY 3 Credit Hours**

(Repeatable for credit)(Slashed with POL 70191) Seminar on current and important topics in American politics and policy. Subject matter varies depending on the emerging issue. Course may be repeated for credit toward a degree with departmental approval.

**Prerequisite:** Graduate standing.

**Schedule Type:** Seminar

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter



**POL 60304 ANALYTIC TECHNIQUES OF POLICY-MAKING 3 Credit Hours**

(Slashed with POL 70304) Course covers the concepts, techniques and conventions for assessing economic efficiency when this is one of the social and political goals relevant to public policymakers. Students are introduced to theories of cost-benefit analysis as they pertain to public policy.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**POL 60501 STATUS OF THE FIELD: TRANSNATIONAL AND COMPARATIVE POLITICS AND POLICY 3 Credit Hours**

(Slashed with POL 70501) Course introduces students to the primary concepts, theories and subfields of comparative and transnational politics. Each field of study is reviewed along with the primary subfields of analysis.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**POL 60502 GLOBAL GOVERNANCE 3 Credit Hours**

(Slashed with POL 70502) Course examines issues, problems and debates regarding global governance in the contemporary world. Of primary interest is the array of actors in this process, including nation-states, intergovernmental organizations and nongovernmental organizations.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**POL 60503 FOREIGN POLICY ANALYSIS 3 Credit Hours**

(Slashed with POL 70503) Course provides an overview of the diverse analytic traditions and issues that relate to the study of foreign policy. Areas of coverage include theories of foreign policy decision-making, levels of analysis and policy domains.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**POL 60507 CONFLICT TRANSFORMATION AND RECONCILIATION 3 Credit Hours**

(Slashed with POL 70507) Cross-cultural analysis of transition, from mass violence to justice and from protracted conflict to democracy. Subjects of study include truth and reconciliation commissions, criminal tribunal's apologies reparations and other aids to conflict transformation.

**Prerequisite:** POL 60501; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**POL 60510 POLITICS OF DEVELOPMENT 3 Credit Hours**

(Slashed with POL 70510) Course surveys the scholarship on political development, examining the ways in which the conceptualization of development has evolved over time, looking specifically at institutionalization, state failure and the role of civil society.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**POL 60511 INTERNATIONAL POLITICAL ECONOMY 3 Credit Hours**

(Slashed with POL 70511) Introduces students to the study of how politics and economics interact on a global scale, covering the major theories of the international political economy, the international monetary system, global trade, and the connections between international economics and domestic development.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**POL 60591 SEMINAR IN TRANSNATIONAL AND COMPARATIVE POLITICS AND POLICY 3 Credit Hours**

(Repeatable for credit)(Slashed with POL 70591) Seminar on current and important topics in transnational and comparative politics and policy. Subject matter varies depending on the emerging issue.

**Prerequisite:** Graduate standing.

**Schedule Type:** Seminar

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**POL 60901 PROSEMINAR IN CONFLICT ANALYSIS AND MANAGEMENT 3 Credit Hours**

(Slashed with POL 70901) Covers the historical development of the conflict analysis and management field; conflict theories; the dynamics by which conflicts escalate, stalemate and de-escalate; and theories of conflict intervention, resolution and transformation.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**POL 60902 POWER, CONFLICT AND THE POLITICS OF GENDER 3 Credit Hours**

(Slashed with POL 70902) Examines power disparities and gender as sources of conflict in multiple arenas—including family, community, workplace and the political sphere. The intersections of gender and power in the generation and resolution of social conflicts are examined. Emphasis is placed on empowerment strategies and tactics used to transform gendered conflicts and redress power imbalances.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**POL 60903 IDENTITY DRIVEN CONFLICTS 3 Credit Hours**

(Slashed with POL 70903) Explores the roles played by ethnicity, race, religion, culture and other elements of identity in the generation, resolution and conduct of conflicts within and between groups. Physical and symbolic markers of difference are examined in order to understand both why groups differentiate themselves from one another and how mechanisms such as skin color, religious affiliation, ethnic background or cultural traditions can provide the impetus for conflict or the grounds for resolution.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**POL 60904 SOCIAL MOVEMENTS AND NONVIOLENT CONFLICTS 3 Credit Hours**

(Slashed with POL 70904) The waging and escalating of conflicts by social movements through nonviolent actions frequently shifts conflicts from one stage to another while also contributing to conflict transformation and to substantive social and political changes. Course focuses on social movement theories and practices, and on the complicated dynamics of nonviolent action campaigns waged by social movements.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**POL 60906 POLITICAL VIOLENCE 3 Credit Hours**

(Slashed with POL 70906) Examines the dynamics, networks, interests and resource mobilization underlying state-sponsored political violence, focusing on "low-intensity conflict" and counter-insurgency, paramilitarism and genocide. Of special interest is the relationship of the state to various non-state actors, both perpetrators and victims, and the role of the international community in domestic-level violence.

**Prerequisite:** POL 60501 or POL 60901; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**POL 60907 TERRORISM AND HUMAN RIGHTS 3 Credit Hours**

(Slashed with POL 70907) Examines how governments try to adhere to the rule of law in managing terrorist threats in a post 9-11 era, striking a balance between the competing demands of public safety, personal freedom and human rights. Topics include understanding terrorism as a problem for western governments, the rule of law and human rights.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**POL 60991 SEMINAR IN CONFLICT ANALYSIS AND MANAGEMENT 3 Credit Hours**

(Repeatable for maximum 9 credit hours)(Slashed with POL 70991) Seminar on current and important topics in conflict analysis and management. Course may be repeated for credit toward a degree with departmental approval.

**Prerequisite:** Graduate standing.

**Schedule Type:** Seminar

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**POL 61094 COLLEGE TEACHING IN POLITICAL SCIENCE 1 Credit Hour**

(Repeatable for credit)(Slashed with POL 71094) Staff training and experience in college teaching; colloquia on professional ethics and responsibilities of political scientists. Maximum 4 credit hours applicable toward a degree with graduate studies committee approval.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 1 lecture

**Grade Mode:** Standard Letter

**POL 61098 RESEARCH 1-15 Credit Hours**

(Repeatable for credit) Research or individual investigation. Credit hours may be applied toward meeting degree requirements with department approval and when a letter grade is given.

**Prerequisite:** Graduate standing.

**Schedule Type:** Research

**Contact Hours:** 1-15 other

**Grade Mode:** Standard Letter-IP

**POL 61199 THESIS I 2-6 Credit Hours**

Thesis students must register for a total of 6 hours, 2 to 6 hours in a single semester distributed over several semesters if desired.

**Prerequisite:** Graduate standing.

**Schedule Type:** Masters Thesis

**Contact Hours:** 2-6 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**POL 61299 THESIS II 2 Credit Hours**

Thesis students must continue registration each semester until all degree requirements are met.

**Prerequisite:** POL 61199; and graduate standing.

**Schedule Type:** Masters Thesis

**Contact Hours:** 2 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**POL 69091 SEMINAR IN QUANTITATIVE METHODS 3 Credit Hours**

(Repeatable for maximum 9 credit hours)(Slashed with POL 79091) Focuses on select topics in quantitative methods, including limited and categorical dependent variables, hierarchical linear models, panel data, structural equation modeling and Q Methodology. More than one seminar may be offered.

**Prerequisite:** POL 60004; and graduate standing.

**Schedule Type:** Seminar

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**POL 69095 SPECIAL TOPICS IN POLITICAL SCIENCE AND PUBLIC POLICY 3 Credit Hours**

(Repeatable for a maximum of 12 credit hours)(Slashed with POL 79095) Topic varies per course offering.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**POL 70002 SCOPE AND EPISTEMOLOGY 3 Credit Hours**

(Slashed with POL 60002) Introduces students to the philosophy of science and scientific inquiry within the context of the social sciences. Course presents a broad survey of leading paradigms and debates within political science.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**POL 70003 QUANTITATIVE METHODS I 3 Credit Hours**

(Slashed with POL 60003) Provides a selective introduction to basic quantitative methods for the analysis of political and public policy data dealing with basic descriptive and inferential statistics.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**POL 70004 QUANTITATIVE METHODS II 3 Credit Hours**

(Slashed with POL 60004) Introduces students to multivariate quantitative techniques appropriate for the analysis of political and public policy data.

**Prerequisite:** POL 70003; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**POL 70010 QUALITATIVE RESEARCH METHODS 3 Credit Hours**

(Slashed with POL 60010) Introduces the principles and methods of qualitative research, examining the place of qualitative research alongside discussions about positivist, interpretivist and critical approaches. A variety of qualitative research methods are introduced including social observation and ethnography, interviewing, discourse analysis, oral history, document analysis, historical analysis and case studies.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**POL 70091 VARIABLE TOPIC SEMINAR 3 Credit Hours**

(Slashed with POL 40091 and 50091) Variable topic seminar in political science.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**POL 70101 STATUS OF THE FIELD: AMERICAN POLITICS AND POLICY 3 Credit Hours**

(Slashed with POL 60101) Course provides a broad survey of the policy-making process in the U.S. government. Coverage includes formal government structures, as well as more informal networks of private groups that seek to influence public policy at the national level.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**POL 70102 AMERICAN POLICY PROCESS 3 Credit Hours**

(Slashed with POL 60102) Course emphasizes the politics of the policy process. Among topics covered are theories of policy formulation implementation and evaluation.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**POL 70103 CONGRESS, THE PRESIDENCY AND THE COURTS 3 Credit Hours**

(Slashed with POL 60103) Focuses on the three branches of the U.S. government, specifically Congress, the presidency and the judiciary. Coverage includes institutional rules and procedures that shape the incentives of these political actors and ultimately policy outcomes.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**POL 70105 FEDERALISM AND STATE POLICYMAKING 3 Credit Hours**

(Slashed with POL 60105) Course covers the theory and practice of federalism, with emphasis on its consequences for policy outcomes. Students also examine the transformation of the policy role of state governments in recent years.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**POL 70106 URBAN POLICY AND POLITICS 3 Credit Hours**

(Slashed with POL 60106) Urban public policy takes place within the context of suburbanization and metropolitan sprawl. Issues raised in this course include poverty, race and the role of business in local policymaking.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**POL 70108 AMERICAN POLITICAL BEHAVIOR 3 Credit Hours**

(Slashed with POL 60108) Explores scholarship on the behavior of non-elite political actors, including various forms of electoral participation, voting, psychological attachment, affect, cognition, perception, attitude and belief. Additional topics include ethnic, racial and gender politics; political participation; voting choice; political psychology; politics and networks; macro politics; and connecting individual-level and macro-level findings with democratic outcomes and citizen capacity.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**POL 70191 SEMINAR IN AMERICAN POLITICS AND POLICY 3 Credit Hours**

(Repeatable for credit) (Slashed with POL 60191) Seminar on current and important topics in American politics and policy. Subject matter varies depending on the emerging issue. This course may be repeated for credit with departmental approval.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Seminar

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**POL 70195 SPECIAL TOPICS IN PUBLIC ADMINISTRATION 3 Credit Hours**

(Repeatable for maximum 12 credit hours)(Slashed with PADM 60195) Topic varies per course offerings.

**Prerequisite:** Doctoral standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**POL 70198 RESEARCH IN PUBLIC ADMINISTRATION 1-3 Credit Hours**

(Repeatable for credit) Research or individual investigation. Credits earned may be applied toward a degree with department approval.

**Prerequisite:** Political science major; and doctoral standing; and special approval.

**Schedule Type:** Research

**Contact Hours:** 1-3 other

**Grade Mode:** Standard Letter-IP

**POL 70304 ANALYTIC TECHNIQUES OF POLICY-MAKING 3 Credit Hours**

(Slashed with POL 60304) Course covers the concepts, techniques and conventions for assessing economic efficiency when this is one of the social and political goals relevant to public policymakers. Students are introduced to theories of cost-benefit analysis as they pertain to public policy.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**POL 70371 GRADUATE INTRODUCTION TO PUBLIC ADMINISTRATION 3 Credit Hours**

(Slashed with PADM 60371) Introductory course to the theory and study of public administration. Topics include evolution and characteristics of the modern nation state; core functions of public bureaucracy in any nation state; intergovernmental relations; formal and informal institutions and their role in policy; legal-regulatory processes; historical evolution of public administration as an academic field; and major paradigms in organization theory and internal organizational dynamics.

**Prerequisite:** Political science major; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**POL 70377 PUBLIC BUDGETING AND FINANCIAL MANAGEMENT 3 Credit Hours**

(Slashed with PADM 60377) Focuses on two aspects of public financial analysis: budgeting and financial management. The topics in budgeting are the basic purposes of budgets as mechanisms of resource control and allocation, and as legal documents; distinct budget formats and cross-walking of formats; budget preparation; legislative review; implementation and auditing. The topics in financial management are the mechanisms and tools for financing public operations, debt management, fund accounting, analyzing budgets and forecasting.

**Prerequisite:** Political Science major; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**POL 70379 PROGRAM EVALUATION I 3 Credit Hours**

(Slashed with PADM 60379) Introduction to evaluation of government programs. Emphasis on familiarizing students with the theory and specifically the techniques utilized under different evaluation formats.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**POL 70386 PUBLIC SECTOR INFORMATION TECHNOLOGY MANAGEMENT 3 Credit Hours**

(Slashed with PADM 60386) Management of information technology systems in the public sector. Specific focus on: planning and acquisition of hardware and software and networking technologies, organizational governance and implementation, information security and privacy, legal requirements, IT service delivery and emerging enterprise technologies.

**Prerequisite:** Political Science major; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**POL 70387 ELECTRONIC GOVERNANCE 3 Credit Hours**

(Slashed with PADM 60387) An introduction to electronic governance with an emphasis on public administration. Examines the implications of information and communication technology in public organizations with regard to democracy, civic engagement and performance improvement. Through case studies from the United States and across the world, students become familiar with the factors and issues surrounding the implementation of electronic governance on a comparative basis.

**Prerequisite:** Political Science major; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**POL 70392 INTERNSHIP IN PUBLIC ADMINISTRATION 3 Credit Hours**

(Repeatable for credit maximum three times) Provides an opportunity for students to gain practical experience and be exposed to processes of public decision making and policy development.

**Prerequisite:** Political Science major; and doctoral standing; and special approval.

**Schedule Type:** Practical Experience

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter-IP

**POL 70470 PERSONAL ACCOUNTABILITY IN THE PUBLIC SERVICE 3 Credit Hours**

(Slashed with PADM 60470) Focus is on students internalizing their role in the public service as stewards of the public trust. Topics covered include dimensions of stewardship: maintaining personal honor, protecting the liberty and dignity of the citizen, dimensions of justice, anti-corruption, incorporating principles of stewardship in their personal decision making and throughout the organization.

**Prerequisite:** Political Science major; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**POL 70471 NONPROFIT LAW 3 Credit Hours**

(Slashed with PADM 60471) Introduction to legal issues for nonprofit organizations in the United States, including types of IRS tax-exempt status, basic requirements for establishing and operating nonprofit organizations specifically in Ohio.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**POL 70472 NONPROFIT BOARD-EXECUTIVE RELATIONS 3 Credit Hours**

(Slashed with PADM 60472) Key aspects of effective nonprofit governance, major roles of nonprofit board members and their responsibilities and governance structures.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**POL 70475 CAPSTONE SEMINAR 3 Credit Hours**

(Repeatable for credit)(Slashed with PADM 60475) Students complete an approved, written project that is analytical and research-based.

**Prerequisite:** Political Science major; and doctoral standing; and special approval.

**Schedule Type:** Seminar

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter-IP

**POL 70477 NONPROFIT FINANCIAL RESOURCE DEVELOPMENT 3 Credit Hours**

(Slashed with PADM 60477) Successful strategies for fundraising and resource development for nonprofit organizations. Students are exposed to fundraising in practice and write a resource development plan.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**POL 70501 STATUS OF THE FIELD: TRANSNATIONAL AND COMPARATIVE POLITICS AND POLICY 3 Credit Hours**

(Slashed with POL 60501) Course introduces students to the primary concepts, theories and subfields of comparative and transnational politics. Each field of study is reviewed along with the primary subfields of analysis.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**POL 70502 GLOBAL GOVERNANCE 3 Credit Hours**

(Slashed with POL 60502) Course examines issues, problems and debates regarding global governance in the contemporary world. Of primary interest is the array of actors in this process, including nation-states, intergovernmental organizations and nongovernmental organizations.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**POL 70503 FOREIGN POLICY ANALYSIS 3 Credit Hours**

(Slashed with POL 60503) Course provides an overview of the diverse analytic traditions and issues that relate to the study of foreign policy. Areas of coverage include theories of foreign policy decision-making, levels of analysis and policy domains.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**POL 70507 CONFLICT TRANSFORMATION AND RECONCILIATION 3 Credit Hours**

(Slashed with POL 60507) Cross-cultural analysis of transition, from mass violence to justice and from protracted conflict to democracy. Subjects of study include truth and reconciliation commissions, criminal tribunal's apologies reparations and other aids to conflict transformation.

**Prerequisite:** POL 70501; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**POL 70510 POLITICS OF DEVELOPMENT 3 Credit Hours**

(Slashed with POL 60510) Course surveys the scholarship on political development, examining the ways in which the conceptualization of development has evolved over time, looking specifically at institutionalization, state failure and the role of civil society.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**POL 70511 INTERNATIONAL POLITICAL ECONOMY 3 Credit Hours**

(Slashed with POL 60511) Introduces students to the study of how politics and economics interact on a global scale, covering the major theories of the international political economy, the international monetary system, global trade, and the connections between international economics and domestic development.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**POL 70574 STRATEGIC PLANNING 3 Credit Hours**

(Slashed with PADM 60574) Introduction to the practice of strategic planning as it relates to policy design and implementation by public and nonprofit organizations.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**POL 70591 SEMINAR IN TRANSNATIONAL AND COMPARATIVE POLITICS AND POLICY 3 Credit Hours**

(Slashed with POL 60591) (Repeatable for credit) Seminar on current and important topics in transnational and comparative politics and policy. Subject matter varies depending on the emerging issue. This course may be repeated for credit with departmental approval.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Seminar

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**POL 70901 PROSEMINAR IN CONFLICT ANALYSIS AND MANAGEMENT 3 Credit Hours**

(Slashed with POL 60901) Covers the historical development of the conflict analysis and management field; conflict theories; the dynamics by which conflicts escalate, stalemate and de-escalate; and theories of conflict intervention, resolution and transformation.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**POL 70902 POWER, CONFLICT AND THE POLITICS OF GENDER 3 Credit Hours**

(Slashed with POL 60902) Examines power disparities and gender as sources of conflict in multiple arenas—including family, community, workplace and the political sphere. The intersections of gender and power in the generation and resolution of social conflicts are examined. Emphasis is placed on empowerment strategies and tactics used to transform gendered conflicts and redress power imbalances.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter



**POL 70903 IDENTITY DRIVEN CONFLICTS 3 Credit Hours**

(Slashed with POL 60903) Explores the roles played by ethnicity, race, religion, culture and other elements of identity in the generation, resolution and conduct of conflicts within and between groups. Physical and symbolic markers of difference are examined in order to understand both why groups differentiate themselves from one another and how mechanisms such as skin color, religious affiliation, ethnic background or cultural traditions can provide the impetus for conflict or the grounds for resolution.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**POL 70904 SOCIAL MOVEMENTS AND NONVIOLENT CONFLICTS 3 Credit Hours**

(Slashed with POL 60904) The waging and escalating of conflicts by social movements through nonviolent actions frequently shifts conflicts from one stage to another while also contributing to conflict transformation and to substantive social and political changes. Course focuses on social movement theories and practices, and on the complicated dynamics of nonviolent action campaigns waged by social movements.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**POL 70906 POLITICAL VIOLENCE 3 Credit Hours**

(Slashed with POL 60906) Examines the dynamics, networks, interests and resource mobilization underlying state-sponsored political violence, focusing on "low-intensity conflict" and counter-insurgency, paramilitarism and genocide. Of special interest is the relationship of the state to various non-state actors, both perpetrators and victims, and the role of the international community in domestic-level violence.

**Prerequisite:** POL 70501 or POL 70901; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**POL 70907 TERRORISM AND HUMAN RIGHTS 3 Credit Hours**

(Slashed with POL 60907) Examines how governments try to adhere to the rule of law in managing terrorist threats in a post 9-11 era, thus striking a balance between the competing demands of public safety, personal freedom, and human rights. Topics include understanding terrorism as a problem for western governments, the rule of law, and human rights.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**POL 70991 SEMINAR IN CONFLICT ANALYSIS AND MANAGEMENT 3 Credit Hours**

Repeatable for maximum 9 credit hours)(Slashed with POL 60991) Seminar on current and important topics in conflict analysis and management. Course may be repeated for credit toward a degree with departmental approval.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Seminar

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**POL 71094 COLLEGE TEACHING IN POLITICAL SCIENCE 1 Credit Hour**

(Repeatable for credit)(Slashed with POL 61094) Staff training and experience in college teaching; colloquia on professional ethics and responsibilities of political scientists. Maximum 4 credit hours applicable toward a degree with graduate studies committee approval.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 1 lecture

**Grade Mode:** Standard Letter

**POL 79091 SEMINAR IN QUANTITATIVE METHODS 3 Credit Hours**

(Repeatable for maximum 9 credit hours)(Slashed with POL 69091) Focuses on select topics in quantitative methods, including limited and categorical dependent variables, hierarchical linear models, panel data, structural equation modeling and Q Methodology. More than one seminar may be offered.

**Prerequisite:** POL 70004; and doctoral standing.

**Schedule Type:** Seminar

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**POL 79095 SPECIAL TOPICS IN POLITICAL SCIENCE AND PUBLIC POLICY 3 Credit Hours**

(Repeatable for a maximum of 12 credit hours)(Slashed with POL 69095) Topic varies per course offering.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**POL 81098 RESEARCH 1-15 Credit Hours**

(Repeatable for credit) Research or individual investigation for doctoral students who have not yet passed their candidacy examination. Credits may be applied toward degree if department approves and when letter grade is given.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Research

**Contact Hours:** 1-15 other

**Grade Mode:** Standard Letter-IP

**POL 81199 DISSERTATION I 15 Credit Hours**

(Repeatable for credit) Doctoral dissertation, for which registration in at least two semesters is required, and the first of which will be semester in which dissertation work is begun and continuing until the completion of 30 hours.

**Prerequisite:** Doctoral standing; and special approval.

**Schedule Type:** Dissertation

**Contact Hours:** 15 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**POL 81299 DISSERTATION II 15 Credit Hours**

(Repeatable for credit) Continuing registration required for doctoral students who have completed the initial 30 hours of dissertation and continuing until all degree requirements are met.

**Prerequisite:** POL 81199; and doctoral standing.

**Schedule Type:** Dissertation

**Contact Hours:** 15 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

## Public Administration (PADM)

### PADM 60195 SPECIAL TOPICS IN PUBLIC ADMINISTRATION 3 Credit Hours

(Repeatable for credit) (Cross-listed with POL 70195) Topic varies per course offerings.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

### PADM 60198 RESEARCH IN PUBLIC ADMINISTRATION 1-3 Credit Hours

(Repeatable for credit) Research or individual investigation. Credits earned may be applied toward a degree with department approval.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Research

**Contact Hours:** 1-3 other

**Grade Mode:** Standard Letter-IP

### PADM 60200 NONPROFIT ADVOCACY 3 Credit Hours

This course explores the U.S. public-policy making process as it applies to nonprofit organizations. Nonprofits influence policy making or "advocacy" through a variety of methods, such as lobbying, campaigning, protesting, and policy monitoring. The course explores how nonprofit organizations both shape and are shaped by public policy.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

### PADM 60310 LEADERSHIP IN THE NONPROFIT AND PUBLIC SECTOR 3 Credit Hours

This course teaches students theory, practice, and skills for leading nonprofit and public organizations. Topics include: organizational theory and behavior; organizational culture; integrity and ethics; group dynamics; conflict management; and creating an environment that promotes diversity and inclusion.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

### PADM 60371 GRADUATE INTRODUCTION TO PUBLIC ADMINISTRATION 3 Credit Hours

(Cross-listed with POL 70371) Introductory course to the theory and study of public administration. Topics include evolution and characteristics of the modern nation state; core functions of public bureaucracy in any nation state; intergovernmental relations; formal and informal institutions and their role in policy; legal-regulatory processes; historical evolution of public administration as an academic field; and major paradigms in organization theory and internal organizational dynamics.

**Prerequisite:** Public administration major; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

### PADM 60375 PUBLIC PERSONNEL ADMINISTRATION 3 Credit Hours

Study of public personnel systems, including underlying system values and current problems with emphasis on skill development and understanding of techniques for public personnel managers.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

### PADM 60376 LABOR MANAGEMENT RELATIONS IN THE PUBLIC SECTOR 3 Credit Hours

This course focuses on issues peculiar to public sector labor relations, including the impact of public employee unionism on traditional merit systems and personnel policy decision processes.

**Prerequisite:** PADM 60375; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

### PADM 60377 PUBLIC BUDGETING AND FINANCIAL MANAGEMENT 3 Credit Hours

(Cross-listed with POL 70377) Focuses on two aspects of public financial analysis: budgeting and financial management. The topics in budgeting are the basic purposes of budgets as mechanisms of resource control and allocation, and as legal documents; distinct budget formats and cross-walking of formats; budget preparation; legislative review; implementation and auditing. The topics in financial management are the mechanisms and tools for financing public operations, debt management, fund accounting, analyzing budgets and forecasting.

**Prerequisite:** Public administration major; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

### PADM 60378 MUNICIPAL MANAGEMENT AND ADMINISTRATION 3 Credit Hours

Detailed analysis of metropolitan complex. Emphasis given to administrative, political, fiscal and legal problems in governing cities.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

### PADM 60379 PROGRAM EVALUATION I 3 Credit Hours

(Cross-listed with POL 70379) Introduction to evaluation of government programs. Emphasis on familiarizing students with the theory and specifically the techniques utilized under different evaluation formats.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

### PADM 60381 METHODS IN PUBLIC ADMINISTRATION 3 Credit Hours

This course is a graduate-level introduction to statistical methods and their use in public administration.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

### PADM 60382 SEMINAR IN PUBLIC ADMINISTRATION 3 Credit Hours

Study of selected problem areas in public service organizations with emphasis on understanding the factors contributing to them, their solution and literature bearing on the problems.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PADM 60386 PUBLIC SECTOR INFORMATION TECHNOLOGY MANAGEMENT 3 Credit Hours**

(Cross-listed with POL 70386) Management of information technology systems in the public sector. Specific focus on: planning and acquisition of hardware and software and networking technologies, organizational governance and implementation, information security and privacy, legal requirements, IT service delivery and emerging enterprise technologies.

**Prerequisite:** Public administration major; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PADM 60387 ELECTRONIC GOVERNANCE 3 Credit Hours**

(Cross-listed with POL 70387) An introduction to electronic governance with an emphasis on public administration. Examines the implications of information and communication technology in public organizations with regard to democracy, civic engagement and performance improvement.

Through case studies from the United States and across the world, students become familiar with the factors and issues surrounding the implementation of electronic governance on a comparative basis.

**Prerequisite:** PADM 60386; and public administration major; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PADM 60392 INTERNSHIP IN PUBLIC ADMINISTRATION 3 Credit Hours**

(Repeatable for credit) Provides an opportunity for students to gain practical experience and be exposed to processes of public decision making and policy development.

**Prerequisite:** Public administration major; and graduate standing; and special approval.

**Schedule Type:** Practical Experience

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter-IP

**PADM 60470 PERSONAL ACCOUNTABILITY IN THE PUBLIC SERVICE 3 Credit Hours**

(Cross-listed with POL 70470) Focus is on students internalizing their role in the public service as stewards of the public trust. Topics covered include dimensions of stewardship: maintaining personal honor, protecting the liberty and dignity of the citizen, dimensions of justice, anti-corruption, incorporating principles of stewardship in their personal decision making and throughout the organization.

**Prerequisite:** Public administration major; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PADM 60471 NONPROFIT LAW 3 Credit Hours**

(Cross-listed with POL 70471) Introduction to legal issues for nonprofit organizations in the United States, including types of IRS tax exempt status, basic requirements for establishing/operating nonprofit organizations specifically in Ohio.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PADM 60472 NONPROFIT BOARD EXEC RELATIONS 3 Credit Hours**

(Cross-listed with POL 70472) Key aspects of effective nonprofit governance, major roles of nonprofit board members and their responsibilities and governance structures.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PADM 60475 CAPSTONE SEMINAR 3 Credit Hours**

(Repeatable for credit) (Cross-listed with POL 70475) Students complete an approved, written project that is analytical and research-based.

**Prerequisite:** Public administration major; and graduate standing; and special approval.

**Schedule Type:** Seminar

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter-IP

**PADM 60477 NONPROFIT FINANCIAL RESOURCE DEVELOPMENT 3 Credit Hours**

(Cross-listed with POL 70477) Successful strategies for fundraising and resource development for nonprofit organizations. Students are exposed to fundraising in practice and write a resource development plan.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PADM 60574 STRATEGIC PLANNING 3 Credit Hours**

(Cross-listed with POL 70574) Introduction to the practice of strategic planning as it relates to policy design and implementation by public and nonprofit organizations.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

## Department of Psychological Sciences

### Psychology (PSYC)

**PSYC 11762 GENERAL PSYCHOLOGY (DIVD) (KSS) 3 Credit Hours**

Introduction to the scientific approach to understanding human behavior and mental processes such as emotions, perceptions and cognitions.

Topics may include personality, social and environmental factors, biological aspects of behavior and the experience of emotion and psychological disorders.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Diversity Domestic, Kent Core Social Sciences, TAG Social and Behavioral Sciences, Transfer Module Social Sciences

**PSYC 20651 CHILD PSYCHOLOGY (DIVD) (KSS) 3 Credit Hours**

A review of the data, concepts and theories of psychology that contribute to the understanding of child development from conception to age 14.

**Prerequisite:** PSYC 11762.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Diversity Domestic, Kent Core Social Sciences, TAG Social and Behavioral Sciences, Transfer Module Social Sciences

**PSYC 21211 PSYCHOLOGY OF EVERYDAY LIFE (DIVD) (KSS) 3 Credit Hours**

A review of theories, concepts and data that contribute to the understanding of human adjustment. Topics may include the following: personality, stress and coping, transitions from adolescence to adulthood, psychological disorders and psychotherapy.

**Prerequisite:** PSYC 11762.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Diversity Domestic, Kent Core Social Sciences, Transfer Module Social Sciences

**PSYC 21621 QUANTITATIVE METHODS IN PSYCHOLOGY I 3 Credit Hours**

Application of quantitative, statistical methods in psychological research. Descriptive and inferential methods (includes ANOVA, t-test and correlation).

**Prerequisite:** PSYC 11762.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PSYC 22221 MULTICULTURAL PSYCHOLOGY (DIVD) 3 Credit Hours**

Examination of areas of psychology upon which diversity issues have a bearing and focused study of psychological issues relevant to African-American, Asian-American, Hispanic/Latino American and American Indian groups.

**Prerequisite:** PSYC 11762.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Diversity Domestic, Transfer Module Social Sciences

**PSYC 30005 CAREER PATHWAYS IN PSYCHOLOGY 1 Credit Hour**

Designed to equip students with a better understanding of the career pathways available to them in psychology at the bachelor's and graduate level. Using a combination of videos, articles and activities, students learn about many different topics and strategies related to careers and the graduate school application process.

**Prerequisite:** PSYC 11762.

**Schedule Type:** Lecture

**Contact Hours:** 1 lecture

**Grade Mode:** Standard Letter

**PSYC 30111 FORENSIC PSYCHOLOGY 3 Credit Hours**

Surveys major areas of forensic psychology, which focuses on the application of the science and profession of psychology to legal settings. Topics include roles and responsibilities of forensic psychologists, forensic assessment, psychological theories of criminal behavior, law enforcement psychology and eyewitness testimony.

**Prerequisite:** PSYC 11762.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PSYC 30651 ADOLESCENT PSYCHOLOGY 3 Credit Hours**

Students review the theories, concepts and data that contribute to the understanding of the physical, intellectual, educational, personality and social development of adolescents in contemporary society.

**Prerequisite:** PSYC 11762.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** TAG Social and Behavioral Sciences

**PSYC 30652 SOCIAL AND PERSONALITY DEVELOPMENT 3 Credit Hours**

Processes and findings in social and personality development, with a focus on childhood and adolescence. Students examine individual differences, as well as developmental changes, in social function and personality.

**Prerequisite:** PSYC 11762; and HDFS 24012 or PSYC 20651.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PSYC 30655 CHILDREN'S THINKING 3 Credit Hours**

Focuses on how children's cognitive processes and mental representations change from infancy to early adulthood. Theoretical claims, empirical findings and methodological issues are critically evaluated. Topics include children's visual and auditory perception, language and literacy, learning and memory, mathematical and spatial thinking, logical and scientific reasoning, problem solving, theory of mind and social cognition.

**Prerequisite:** PSYC 11762; and HDFS 24012 or PSYC 20651.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PSYC 30656 PSYCHOLOGY OF AGING 3 Credit Hours**

Exploration of basic research and theory on the psychological consequences of aging and psychological factors that affect the behavior of older persons.

**Prerequisite:** PSYC 11762.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PSYC 30821 PSYCHOLOGY OF MOTIVATION 3 Credit Hours**

Factors that provide the energy and direction for behaviors, emotions and cognitive processes. Seeks to answer the question 'why' concerning the things people do, feel and think. A survey approach is used to include both the traditional and newly emerging concepts in motivation.

**Prerequisite:** PSYC 11762.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PSYC 30822 SPORT PSYCHOLOGY 3 Credit Hours**

Introduction to the use of psychological theories and interventions in sport and performance settings. Can include topics such as performance anxiety, maintaining focus under pressure, motivation, leadership, among others.

**Prerequisite:** PSYC 11762.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PSYC 31141 PERCEPTION 3 Credit Hours**

Investigates how humans detect, organize and interpret information from the environment. Considers how both biological and psychological process create and influence our perception of the world.

**Prerequisite:** PSYC 11762.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter



**PSYC 31282 PERSONALITY 3 Credit Hours**

A review of the data, concepts and theories of psychology that contribute to the understanding of personality.

**Prerequisite:** PSYC 11762.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** TAG Social and Behavioral Sciences

**PSYC 31498 UNDERGRADUATE RESEARCH (ELR) 1-6 Credit Hours**

(Repeatable for maximum 16 credit hours) Individual research open to qualified students.

**Prerequisite:** PSYC 11762; and special approval.

**Schedule Type:** Research

**Contact Hours:** 1-6 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**Attributes:** Experiential Learning Requirement

**PSYC 31532 SOCIAL PSYCHOLOGY 3 Credit Hours**

Study of environmental/situational influences on a person's thoughts, behaviors and feelings-focus on topics such as aggression, attitudes and behaviors, conformity, helping, personal relationships and social cognition.

**Prerequisite:** PSYC 11762.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** TAG Social and Behavioral Sciences

**PSYC 31574 RESEARCH METHODS IN PSYCHOLOGY (ELR) 3 Credit Hours**

The rationale, logic and procedures of scientific research in psychology with an emphasis on measurement, causal inference and research design.

**Prerequisite:** PSYC 11762 and PSYC 21621.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Experiential Learning Requirement

**PSYC 31634 ANIMAL COGNITION 3 Credit Hours**

Focuses on the nature of cognition and intelligence in nonhuman animals. Topics include animal studies of perception and attention, associative learning, memory, spatial cognition, concept formation, reasoning and language in nonhuman animals.

**Prerequisite:** PSYC 11762.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PSYC 31684 QUANTITATIVE METHODS IN PSYCHOLOGY II 3 Credit Hours**

Small sample theory, analysis of variance, linear regression and nonparametric statistics (e.g. Chi Square). Course may include qualitative analyses and computer-based data analyses with SPSS software.

**Prerequisite:** PSYC 21621.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PSYC 31773 INDUSTRIAL PSYCHOLOGY 3 Credit Hours**

Application of principles, facts and theories of psychology to people at work. Includes motivation and satisfaction at work, personnel selection and placement, training and development, performance appraisal, organizational development, quality of work life, ergonomics and consumer psychology.

**Prerequisite:** PSYC 11762.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PSYC 40111 ABNORMAL PSYCHOLOGY 3 Credit Hours**

Survey of the definitions as well as the biological, psychological and sociocultural causes of various psychological disorders. Illustrations of these disorders with cases. Overview of treatment approaches to these disorders may be included.

**Prerequisite:** PSYC 11762.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** TAG Social and Behavioral Sciences

**PSYC 40112 PSYCHOLOGICAL DISORDERS OF CHILDHOOD AND ADOLESCENCE 3 Credit Hours**

Covers the biological, psychological and socio-cultural factors influencing the development of psychological disorders in children and adolescents. Emphasis is placed on conceptual and research issues and the application of knowledge to understanding diagnosis and case studies of specific disorders.

**Prerequisite:** PSYC 11762; and HDFS 24012 or PSYC 20651 or PSYC 30651; and junior or senior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PSYC 40231 PSYCHOLOGICAL ASSESSMENT 3 Credit Hours**

Introduction to psychometrics and test theory. Use and basic interpretation of intellectual and personality tests. Skills in using tests at a professional level not given.

**Prerequisite:** PSYC 11762 and PSYC 21621.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PSYC 40382 PEDIATRIC PSYCHOLOGY 3 Credit Hours**

(Slashed with PSYC 50382 and PSYC 70382) Survey of the current topics and research in the field of pediatric (or child health) psychology. Includes a general overview of a number of pediatric psychology topics, including opportunities for more focused study of specific conditions and illnesses. Class sessions cover a mix of general issues (e.g., systems, adherence, diversity, stress and coping), descriptions of clinical roles in pediatric psychology (e.g., consultation liaison, multidisciplinary teams) and specific pediatric conditions with a focus on understanding the role of pediatric psychology.

**Prerequisite:** PSYC 20651; and junior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter



**PSYC 40383 INTRODUCTION TO CLINICAL PSYCHOLOGY 3 Credit Hours**

Application of psychological principles and techniques to the problems of the individual. Course is designed to introduce the field of clinical psychology, including models of understanding abnormal behavior, treatment of individuals and ethics and professional issues.

**Prerequisite:** PSYC 11762.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PSYC 40445 COGNITIVE PSYCHOLOGY 3 Credit Hours**

Covers the mental processes that underline human thought and behavior, such as attention, memory, comprehension, reasoning, problem-solving and language. Considers established and current theoretical models, research methods and experimental results.

**Prerequisite:** PSYC 11762.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PSYC 40446 COGNITIVE NEUROSCIENCE 3 Credit Hours**

Covers the cognitive and neural processes that underlie vision, attention, spatial processing, memory, language, social processes, executive functioning and action. Introduces basic brain structure and the behavioral and functional imaging techniques used to study the brain bases of cognition. Data from patients with neurological disorders such as Alzheimer's, aphasia, amnesia are also examined.

**Prerequisite:** PSYC 11762.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PSYC 40461 PSYCHOLOGY OF LANGUAGE 3 Credit Hours**

Investigates psychological processes involved in language production, comprehension and development. Within each broad area emphasis is on theories, psychological experiments, key findings and the relationships between theory, method and data.

**Prerequisite:** PSYC 11762 and PSYC 40445.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PSYC 40625 DEVELOPMENT OF GENDER ROLE AND IDENTITY (DIVD) 3 Credit Hours**

A life-span, developmental model is used to analyze the changes that occur with age in gender-related role performance and identity formation.

**Prerequisite:** PSYC 11762.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Diversity Domestic

**PSYC 40974 HISTORY OF PSYCHOLOGY 3 Credit Hours**

(Slashed with PSYC 50974) Course examines the historical context, influences and individuals instrumental in the development of psychology. Course organization is designed to compare and contrast systems, theories and fundamental issues with which psychologists have concerned themselves in past and contemporary stages of the science.

**Prerequisite:** PSYC 11762; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PSYC 41043 BASIC LEARNING PROCESSES 3 Credit Hours**

Examination of basic principles of Pavlovian conditioning, instrumental conditioning, animal learning and memory processes and animal cognition. Emphasis on major empirical phenomena derived from research with animals with reference to related psychological processes in humans.

**Prerequisite:** PSYC 11762.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PSYC 41363 BIOPSYCHOLOGY 3 Credit Hours**

Rigorous course covering the relationship between brain and behavior at the physiological, chemical and anatomical levels. Focuses on the association between the central nervous system and various processes and behaviors such as learning, emotions, neurological disorders and psychopathology. Students with no background or coursework in biological science should plan to devote considerable time to mastering the relevant concepts for this course (e.g., structure and function of neurons).

**Prerequisite:** PSYC 11762; and sophomore standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PSYC 41364 DRUGS AND BEHAVIOR 3 Credit Hours**

Provides an overview of drug taking in society, the actions of drugs in the body and the effects of drugs on behavior. Focus is on drugs and the nervous system, psychopharmacology and actions and side effects of such drugs as alcohol, opiates, stimulants, marijuana, hallucinogens, depressants and performance-enhancing drugs. Particular focus is on medications for psychiatric disorders, abuse-potential and the causes of addiction, dependence and relapse.

**Prerequisite:** PSYC 11762.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PSYC 41395 SPECIAL TOPICS IN CHILD PSYCHOLOGY 3 Credit Hours**

(Repeatable for credit)(Slashed with PSYC 51395 and PSYC 71395) In-depth examination of particular topics of current interest to faculty and students. Specialized areas of child psychology. Specific topic varies per course offering.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PSYC 41492 INTERNSHIP IN PSYCHOLOGY (ELR) 1-6 Credit Hours**

(Repeatable for credit) Application of psychological knowledge and skills in applied settings. Allows academic credit for participation as an intern at approved internship sites, including social service, non-profit agencies, government agencies and hospital settings.

**Prerequisite:** 9 credit hours of psychology courses; and minimum 3.000 overall GPA; and psychology major; and junior standing; and special approval.

**Schedule Type:** Practical Experience

**Contact Hours:** 7-42 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**Attributes:** Experiential Learning Requirement

**PSYC 41495 SPECIAL TOPICS IN PSYCHOLOGY 1-3 Credit Hours**

(Repeatable for credit) In-depth examination of particular topics of current interest to faculty and students. Specialized areas of research theory or methodology may be covered. Specific topics announced.

**Prerequisite:** PSYC 11762.

**Schedule Type:** Lecture

**Contact Hours:** 1-3 lecture

**Grade Mode:** Standard Letter

**PSYC 41498 INDIVIDUAL INVESTIGATION (ELR) 1-6 Credit Hours**

(Repeatable for maximum 16 credit hours) Involves participation in empirical research, review of psychological literature and preparation of a paper or annotated bibliography.

**Prerequisite:** PSYC 11762; and special approval.

**Schedule Type:** Individual Investigation

**Contact Hours:** 1-6 other

**Grade Mode:** Standard Letter-IP

**Attributes:** Experiential Learning Requirement

**PSYC 41573 LABORATORY EXPERIENCE IN PSYCHOLOGICAL RESEARCH: SOCIAL/CLINICAL (WIC) 3 Credit Hours**

(Repeatable for credit) Intensive experience in the conduct, analysis and reporting of empirical research in social or clinical psychology. Specific content varies with instructor.

**Prerequisite:** PSYC 11762 and PSYC 21621 and PSYC 31574; and minimum 3.200 overall GPA.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Writing Intensive Course

**PSYC 41574 LABORATORY EXPERIENCE IN PSYCHOLOGICAL RESEARCH: COGNITIVE/LEARNING (WIC) 3 Credit Hours**

(Repeatable for credit) Intensive experience in the conduct, analysis and reporting of empirical research in cognitive psychology or human/animal learning. Specific content varies with instructor.

**Prerequisite:** PSYC 11762 and PSYC 21621 and PSYC 31574; and minimum 3.200 overall GPA; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Writing Intensive Course

**PSYC 41581 HEALTH PSYCHOLOGY 3 Credit Hours**

Role of psychological and social factors in health and illness, typically covering three general areas: (1) psychological factors affecting disease, (2) psychological and social consequences of illness and (3) psychotherapeutic interventions.

**Prerequisite:** PSYC 11762.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PSYC 41584 THE PSYCHOLOGY OF EXERCISE 3 Credit Hours**

Provides an introduction to exercise psychology, which is the application of psychology to promote, maintain, enhance and explain the parameters of exercise. Course introduces students to the cutting-edge research and practical application of exercise psychology. Topics include use of psychological theory to predict adoption and adherence to exercise behavior; social and personality influences on exercise behavior; research on effectiveness of various exercise interventions; and consequences of exercise, including mental health states such as depression and anxiety, emotional well-being, self-esteem, self-concept, health-related quality of life and cognition.

**Prerequisite:** PSYC 11762.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PSYC 41595 SPECIAL TOPICS IN COUNSELING CAREERS 3 Credit Hours**

(Repeatable for credit)(Slashed with PSYC 51595 and PSYC 71595) In-depth examination of particular topics of current interest to faculty and students. Specialized areas of psychology relevant to counseling careers. Topic varies per course offering.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PSYC 41980 RESEARCH WRITING IN PSYCHOLOGY (WIC) 1 Credit Hour**

Writing-intensive course taken in conjunction with PSYC 31574.

**Pre/corequisite:** PSYC 31574.

**Schedule Type:** Lecture

**Contact Hours:** 1 lecture

**Grade Mode:** Standard Letter

**Attributes:** Writing Intensive Course

**PSYC 41990 WRITING IN PSYCHOLOGY (WIC) 1 Credit Hour**

Writing-intensive course taken in conjunction with a 3-credit-hour, upper-division psychology course (may not be taken with PSYC 31498, PSYC 41498, PSYC 41573, PSYC 41574 or PSYC 41993).

**Prerequisite:** Special approval.

**Schedule Type:** Lecture

**Contact Hours:** 1 lecture

**Grade Mode:** Standard Letter

**Attributes:** Writing Intensive Course

**PSYC 41993 VARIABLE TITLE WORKSHOP IN PSYCHOLOGY 1-6 Credit Hours**

(Repeatable for credit) Specific topic varies per course offering.

**Prerequisite:** PSYC 11762; and special approval.

**Schedule Type:** Workshop

**Contact Hours:** 1-6 other

**Grade Mode:** Satisfactory/Unsatisfactory

**PSYC 42574 ADVANCED RESEARCH METHODS 3 Credit Hours**

Course helps students integrate information learned in previous courses to better understand the process of conducting research in the field of psychology. Through hands-on experiences, students use basic statistical analyses to answer hypotheses; review scientific literature and generate hypotheses; test hypotheses using a dataset; and present research findings.

**Prerequisite:** PSYC 31574.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PSYC 43001 CLINICAL NEUROANATOMY 3 Credit Hours**  
(Slashed with PSYC 53001 and PSYC 73001)(Cross-listed with BMS 50701 and BMS 70701) Course examines the anatomical organization of the human brain, emphasizing functional aspects of various neural systems, neuroimaging and topics of clinical relevance. Students must have a conceptual understanding of central nervous system organization and memorization of specific neural structures and pathways, as well as knowledge of the impact of structure and systems dysfunction.

**Prerequisite:** Minimum 3.250 overall GPA; and junior standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PSYC 43002 CURRENT TECHNIQUES IN BEHAVIORAL NEUROSCIENCE 3 Credit Hours**

(Slashed with PSYC 53002 and PSYC 73002)(Cross-listed with BMS 50702 and BMS 70702) Course details current and advanced techniques used in behavioral neuroscience research. Emphasis is placed on understanding the theory behind each technique, and its use in understanding the neural mechanisms of behavior. Detailed protocols for each technique are also covered.

**Prerequisite:** Minimum B grade in BSCI 30140 or BSCI 30156 or BSCI 30520 or PSYC 41363; and minimum 3.250 overall GPA; and junior standing; and special approval from instructor.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PSYC 43003 NEURAL MECHANISMS OF LEARNING AND MEMORY 3 Credit Hours**

(Slashed with PSYC 53003 and PSYC 73003)(Cross-listed with BMS 50703 and BMS 70703) Course examines the neural and molecular mechanisms underlying learning and memory formation. Covers cellular mechanisms of learning, including long-term potentiation and basic electrophysiology in invertebrate and mammalian preps. Transcriptional and post-translational modifications required for learning and memory formation, genomic signaling and protein synthesis. Also covers structural changes of neurons associated with memory formation, and the different behavioral methods for studying memory.

**Prerequisite:** BSCI 30520 or PSYC 41363 with a minimum B grade; and minimum 3.250 overall GPA; and junior standing; and special approval from instructor.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PSYC 47385 BROKEN BRAINS: INTRODUCTION TO CLINICAL NEUROPSYCHOLOGY 3 Credit Hours**

Clinical neuropsychology is the study of brain-behavior relationships or the ways in which the brain allows people to think, feel and behave in their everyday life. Course introduces students to cutting-edge research into the inner workings of the brain in both healthy individuals and those with neurological disorders (e.g. Alzheimer's disease, brain injury, ADHD, bipolar disorder). Topics include organization of the brain; how people learn, pay attention and solve problems; brain plasticity; neurological disorders; and neuropsychological assessment.

**Prerequisite:** PSYC 11762.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PSYC 47387 NEUROPSYCHOPHARMACOLOGY 3 Credit Hours**  
(Slashed with PSYC 57387 and PSYC 77387) Neuropsychopharmacology is the study of how drugs and other chemicals affect brain and behavior. Course introduces students to the behavioral effects of psychoactive therapeutic drugs and neurotoxic chemicals in relation to their neural and molecular mechanisms of action. Covers general principles of neuropsychopharmacology; nervous system structure in relation to behavior and mind, brain and behavioral systems that are affected by different classes of drugs and toxic chemicals; and methods employed in neuropsychopharmacology research.

**Prerequisite:** PSYC 11762.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PSYC 50382 PEDIATRIC PSYCHOLOGY 3 Credit Hours**

(Slashed with PSYC 40382 and PSYC 70382) Survey of the current topics and research in the field of pediatric (or child health) psychology. Includes a general overview of a number of pediatric psychology topics, including opportunities for more focused study of specific conditions and illnesses. Class sessions cover a mix of general issues (e.g., systems, adherence, diversity, stress and coping), descriptions of clinical roles in pediatric psychology (e.g., consultation liaison, multidisciplinary teams) and specific pediatric conditions with a focus on understanding the role of pediatric psychology.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PSYC 50974 HISTORY OF PSYCHOLOGY 3 Credit Hours**

(Slashed with PSYC 40974) Course examines the historical context, influences and individuals instrumental in the development of psychology. Course organization is designed to compare and contrast systems theories and fundamental issues with which psychologists have concerned themselves in past and contemporary states of the science.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PSYC 51395 SPECIAL TOPICS IN CHILD PSYCHOLOGY 3 Credit Hours**

(Repeatable for credit)(Slashed with PSYC 41395 and PSYC 71395) In-depth examination of particular topics of current interest to faculty and students. Specialized areas of child psychology. Specific topic varies per course offering.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PSYC 51595 SPECIAL TOPICS IN COUNSELING CAREERS 3 Credit Hours**

(Repeatable for credit)(Slashed with PSYC 41595 and PSYC 71595) In-depth examination of particular topics of current interest to faculty and students. Specialized areas of psychology relevant to counseling careers. Topic varies per course offering.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PSYC 51993 VARIABLE TITLE WORKSHOP IN PSYCHOLOGY 1-6 Credit Hours**

(Repeatable for credit) Specific topic varies per course offering.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Workshop

**Contact Hours:** 1-6 other

**Grade Mode:** Satisfactory/Unsatisfactory

**PSYC 53001 CLINICAL NEUROANATOMY 3 Credit Hours**

(Slashed with PSYC 43001 and PSYC 73001)(Cross-listed with BMS 50701 and BMS 70701) Course examines the anatomical organization of the human brain, emphasizing functional aspects of various neural systems, neuroimaging and topics of clinical relevance. Students must have a conceptual understanding of central nervous system organization and memorization of specific neural structures and pathways, as well as knowledge of the impact of structure and systems dysfunction.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PSYC 53002 CURRENT TECHNIQUES IN BEHAVIORAL NEUROSCIENCE 3 Credit Hours**

(Slashed with PSYC 43002 and PSYC 73002)(Cross-listed with BMS 50702 and BMS 70702) Course details current and advanced techniques used in behavioral neuroscience research. Emphasis is placed on understanding the theory behind each technique, and its use in understanding the neural mechanisms of behavior. Detailed protocols for each technique are also covered.

**Prerequisite:** Graduate standing; and special approval from instructor.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PSYC 53003 NEURAL MECHANISMS OF LEARNING AND MEMORY 3 Credit Hours**

(Slashed with PSYC 43003 and PSYC 73003)(Cross-listed with BMS 50703 and BMS 70703) Course examines the neural and molecular mechanisms underlying learning and memory formation. Covers cellular mechanisms of learning, including long-term potentiation and basic electrophysiology in invertebrate and mammalian preps. Transcriptional and post-translational modifications required for learning and memory formation, genomic signaling and protein synthesis. Also covers structural changes of neurons associated with memory formation, and the different behavioral methods for studying memory.

**Prerequisite:** Graduate standing; and special approval from instructor.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PSYC 57387 NEUROPSYCHOPHARMACOLOGY 3 Credit Hours**

(Slashed with PSYC 47387 and PSYC 77387) Neuropsychopharmacology is the study of how drugs and other chemicals affect brain and behavior. Course introduces students to the behavioral effects of psychoactive/therapeutic drugs and neurotoxic chemicals in relation to their neural and molecular mechanisms of action. Covers general principles of neuropsychopharmacology; nervous system structure in relation to behavior and mind, brain and behavioral systems that are affected by different classes of drugs and toxic chemicals; and methods employed in neuropsychopharmacology research.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PSYC 60105 DEVELOPMENTAL PSYCHOPATHOLOGY 3 Credit Hours**

(Slashed with PSYC 70105) Nature and theoretical explanations of various forms of psychopathology in children and adults. Students learn about the methods used to research psychopathology and understand contemporary controversies in the study of developmental psychopathology.

**Prerequisite:** Clinical psychology or psychological science major; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PSYC 60110 INTRODUCTION TO PSYCHOPATHOLOGY: CHILD 3 Credit Hours**

(Slashed with PSYC 70110) Introduction to psychopathology from a developmental perspective. Covers models of classification and specific disorders of childhood.

**Prerequisite:** Clinical psychology or psychological science major; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PSYC 60170 INTRODUCTION TO PSYCHOPATHOLOGY: ADULT 3 Credit Hours**

(Slashed with PSYC 70170) An examination of the etiology, symptomology and theoretical models of adult psychopathology.

**Prerequisite:** Clinical psychology or psychological science major; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PSYC 60192 INTEGRATION PRACTICUM 1-3 Credit Hours**

(Repeatable for credit) Integration of assessment, psychopathology and psychotherapy coursework. Emphasis on learning how to conceptualize cases in general and from differing theoretical perspectives.

**Prerequisite:** PSYC 60292 and PSYC 60792; and clinical psychology or psychological science major; and graduate standing.

**Schedule Type:** Lecture, Practical Experience

**Contact Hours:** 1-3 lecture

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**PSYC 60272 INTRODUCTION TO PSYCHOLOGICAL ASSESSMENT 3 Credit Hours**

(Slashed with PSYC 70272) Introduction to psychological assessment as a process for solving important clinical problems. Theoretical methodological and research issues are emphasized. Students become familiar with major psychological tests.

**Prerequisite:** Clinical psychology or psychological science major; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PSYC 60273 ADVANCED PSYCHOLOGICAL ASSESSMENT: ADULT 3 Credit Hours**

(Slashed with PSYC 70273) Examines psychodiagnosis within a context of 'personality-as-a-coherent-whole.' Emphasizes an ideographic approach with a theoretical framework, which organizes and gives meaning to observations.

**Prerequisite:** PSYC 60272; and clinical psychology or psychological science major; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PSYC 60274 ADVANCED PSYCHOLOGICAL ASSESSMENT: CHILD 3 Credit Hours**

(Slashed with PSYC 70274) Interviewing, developmental and intellectual assessments, personality evaluations, behavioral assessments and assessment of special-child populations. Emphasis on the rationale and integration of research relevant to appropriate use and interpretation.

**Prerequisite:** PSYC 60272 and PSYC 60292; and clinical psychology or psychological science major; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PSYC 60275 BEHAVIORAL ASSESSMENT 3 Credit Hours**

(Slashed with PSYC 70275) Considers behavioral assessment from an empirical as well as an applied perspective. Intended for persons familiar with general assessment, psychopathology and psychotherapy issues.

**Prerequisite:** PSYC 60272 and PSYC 60292; and clinical psychology or psychological science major; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PSYC 60276 NEUROPSYCHOLOGICAL ASSESSMENT 3 Credit Hours**

(Slashed with PSYC 70276) Introduction to the conceptual foundations of neuropsychological assessment and practical knowledge in assessment procedures, methods of interpretation and differential diagnosis.

**Prerequisite:** Clinical psychology or psychological science major; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PSYC 60292 PSYCHOLOGICAL ASSESSMENT PRACTICUM 1-3 Credit Hours**

(Repeatable for credit) Applied aspects of material presented in PSYC 60272. Emphasis on administering, scoring and interpreting major assessment tools.

**Prerequisite:** Clinical psychology or psychological science major; and graduate standing.

**Corequisite:** PSYC 60272.

**Schedule Type:** Practical Experience

**Contact Hours:** 3 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**PSYC 60324 PROFESSIONAL ISSUES AND ETHICS IN CLINICAL PSYCHOLOGY 3 Credit Hours**

(Slashed with PSYC 70324) Review of professional concerns in the field, including training, ethics, client rights, economics, legal issues, relationship to other professions and professional organization and policy.

**Prerequisite:** Clinical psychology or psychological science major; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PSYC 60326 CLINICAL ASPECTS OF HEALTH PSYCHOLOGY 3 Credit Hours**

(Slashed with PSYC 70326) Consideration of psychosocial influences on health status that are relevant to the clinician. Attention is given to interventions on both individual and community levels. Emphasis on approaches to prevention treatment and public policy.

**Prerequisite:** Clinical psychology or psychological science major; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PSYC 60371 INTRODUCTION TO PSYCHOLOGICAL THERAPY 3 Credit Hours**

(Slashed with PSYC 70371) Introduction to psychotherapy, with special emphasis on psychodynamic and phenomenological approaches with theory, technique and major research findings considered.

**Prerequisite:** Clinical psychology or psychological science major; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PSYC 60375 COGNITIVE BEHAVIOR THERAPY 3 Credit Hours**

(Slashed with PSYC 70375) Empirical and clinical aspects of cognitive and behavioral interventions. Intended for students familiar with basic psychotherapy assessment and psychopathology issues.

**Prerequisite:** PSYC 60371 and PSYC 60292; and clinical psychology or psychological science major; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter



**PSYC 60376 CHILD PSYCHOTHERAPY 3 Credit Hours**

(Slashed with PSYC 70376) Consideration of various aspects of child psychotherapy, including general issues, traditional therapies, behavior and cognitive behavior therapies and child therapy research. Emphasis on integration of theory, technique and research.

**Prerequisite:** PSYC 60371; and clinical psychology or psychological science major; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PSYC 60395 ADVANCED TOPICS IN CLINICAL PSYCHOLOGY 1-6 Credit Hours**

(Repeatable for credit)(Slashed with PSYC 70395) Advanced-level consideration of selected content areas in assessment, psychotherapy psycho pathology professional issues and community psychology. Specific topic varies per course offering.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 1-6 lecture

**Grade Mode:** Standard Letter

**PSYC 60453 INTRODUCTION TO COGNITIVE PSYCHOLOGY 3 Credit Hours**

(Slashed with PSYC 70453) Information-processing approaches to human thought. Focus on processes used to transform store manipulate and retrieve sensory input. Topics include attention pattern recognition memory and language.

**Prerequisite:** Clinical psychology or psychological science major; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PSYC 60592 PRACTICUM IN DIAGNOSTIC INTERVIEWING 1-3 Credit Hours**

(Repeatable for maximum 3 credit hours) Covers skills clinical psychologists must possess to help clients, effectively work within the field, communicate effectively with peers and colleagues and excel as a clinical researcher. Provides a foundation of skills, knowledge and expertise necessary to competently conduct a diagnostic interview, and provides an introduction to the process of conceptualize a client's presenting problem(s).

**Prerequisite:** Clinical psychology or psychological science major; and graduate standing.

**Schedule Type:** Practical Experience

**Contact Hours:** 3-9 other

**Grade Mode:** Standard Letter-IP

**PSYC 60792 PSYCHOTHERAPY PRACTICUM 1-3 Credit Hours**

(Repeatable for credit) Basic training in applied aspects of psychotherapy. Through didactic and experiential methods, students learn basic listening and communication skills that are then applied to specific techniques, situations and issues.

**Prerequisite:** Clinical psychology or psychological science major; and graduate standing.

**Corequisite:** PSYC 60371.

**Schedule Type:** Practical Experience

**Contact Hours:** 3-9 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**PSYC 60895 ADVANCED TOPICS IN EXPERIMENTAL PSYCHOLOGY 1-6 Credit Hours**

(Repeatable for credit)(Slashed with PSYC 70895) Advanced-level consideration of selected content areas in experimental psychology. Specific topic varies per course offering.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 1-6 lecture

**Grade Mode:** Standard Letter

**PSYC 60950 HISTORY AND CONTEMPORARY SYSTEMS 3 Credit Hours**

(Slashed with PSYC 70950) Relationships between historical antecedents and the major contemporary systems and theories of psychology.

**Prerequisite:** Clinical psychology or psychological science major; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PSYC 61054 LEARNING AND CONDITIONING 3 Credit Hours**

(Slashed with PSYC 71054) Introduction to basic conditioning processes. Emphasis on Pavlovian and instrumental learning phenomena particularly as these are exemplified in animal models of behavior.

**Prerequisite:** Clinical psychology or psychological science major; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PSYC 61199 THESIS I 2-6 Credit Hours**

Thesis students must register for a total of 6 hours, 2 to 6 hours in a single semester distributed over several semesters if desired.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Masters Thesis

**Contact Hours:** 2-6 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**PSYC 61260 THEORIES OF PERSONALITY 3 Credit Hours**

(Slashed with PSYC 71260) Consideration of major theoretical orientations, including psychoanalysis, phenomenology and those stressing learning. Emphasis on principal concepts; deals less with research methods and findings.

**Prerequisite:** Clinical psychology or psychological science major; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PSYC 61299 THESIS II 2 Credit Hours**

Thesis students must continue registration each semester until all degree requirements are met.

**Prerequisite:** PSYC 61199; and graduate standing.

**Schedule Type:** Masters Thesis

**Contact Hours:** 2 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**PSYC 61350 PHYSIOLOGICAL PSYCHOLOGY 3 Credit Hours**  
(Slashed with PSYC 71350) Neurophysiological, neurochemical and neuroanatomical factors in the control of cognitive processes motivation and behavior. Emphasis is on the broad coverage of major topics in the field.

**Prerequisite:** Clinical psychology or psychological science major; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PSYC 61498 RESEARCH 1-15 Credit Hours**  
(Repeatable for credit) Research or individual investigation. Credits may be applied toward meeting degree requirements with department approval and when satisfactory grade is given.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Research

**Contact Hours:** 1-15 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**PSYC 61548 PSYCHOLOGY OF GENDER AND MINORITIES 3 Credit Hours**

(Slashed with PSYC 71548) Neurophysiological, neurochemical and neuroanatomical factors in the control of cognitive processes motivation and behavior. Emphasis is on the broad coverage of major topics in the field.

**Prerequisite:** Clinical psychology or psychological science major; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PSYC 61580 SOCIAL PSYCHOLOGY 3 Credit Hours**  
(Slashed with PSYC 71580) Introduction to empirical research and theories on the psychological processes related to interpersonal and small group behavior.

**Prerequisite:** Clinical psychology or psychological science major; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PSYC 61651 QUANTITATIVE STATISTICAL ANALYSIS I 3 Credit Hours**

(Slashed with PSYC 71651) Review of univariate statistics and an introduction to using bivariate and multivariate statistics. Part one of a two-semester sequence on statistical analysis.

**Prerequisite:** Clinical psychology or psychological science major; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PSYC 61654 QUANTITATIVE STATISTICAL ANALYSIS II 3 Credit Hours**

(Slashed with PSYC 71654) Multivariate statistics for classifying individuals and variables. Additional topics include power/effect size and handling missing data. Part two of a two-semester sequence on statistical analysis.

**Prerequisite:** Clinical psychology or psychological science major; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PSYC 61685 CLINICAL RESEARCH METHODS 3 Credit Hours**  
(Slashed with PSYC 71685) Consideration of research methodologies relevant to clinical psychology, with emphasis on strengths and weaknesses of research designs and issues related to collection and evaluation of data.

**Prerequisite:** Clinical psychology or psychological science major; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PSYC 61993 VARIABLE TITLE WORKSHOP IN PSYCHOLOGY 1-6 Credit Hours**  
(Repeatable for maximum 6 credit hours) Workshop topic varies per course offering.

**Prerequisite:** Clinical psychology or psychological science major; and graduate standing.

**Schedule Type:** Workshop

**Contact Hours:** 1-6 other

**Grade Mode:** Satisfactory/Unsatisfactory

**PSYC 62392 CLINICAL PRACTICUM 1-3 Credit Hours**  
(Repeatable for credit) Beginning practicum in psychological clinic involving selection, administration and evaluation of tests of ability and personality.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Practical Experience

**Contact Hours:** 1-3 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**PSYC 62492 ADVANCED PRACTICUM 1-3 Credit Hours**  
(Repeatable for credit) Intensified experience in the diagnosis and treatment of specific disorders from the scientist-practitioner model.

**Prerequisite:** PSYC 60192 and PSYC 60292 and PSYC 60792; and clinical psychology or psychological science major; and graduate standing.

**Schedule Type:** Practical Experience

**Contact Hours:** 1-3 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**PSYC 62685 RESEARCH METHODS IN PSYCHOLOGICAL SCIENCE 3 Credit Hours**

(Slashed with PSYC 72685) Course fosters the development of graduate students as independent researchers by helping them acquire knowledge of and facility with quantitative research methods in psychology. The course covers a range of topics that are essential for successful research in psychology, including formulating research questions, measurement, research design, sampling, ethics, writing, replication and validity.

**Prerequisite:** Clinical psychology or psychological science major; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PSYC 70105 DEVELOPMENTAL PSYCHOPATHOLOGY 3 Credit Hours**  
(Slashed with PSYC 60105) Nature and theoretical explanations of various forms of psychopathology in children and adults. Students learn about the methods used to research psychopathology and understand contemporary controversies in the study of developmental psychopathology.

**Prerequisite:** Clinical psychology or psychological science major; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PSYC 70110 INTRODUCTION TO PSYCHOPATHOLOGY: CHILD 3 Credit Hours**  
 (Slashed with PSYC 60110) Introduction to psychopathology from a developmental perspective. Covers models of classification and specific disorders of childhood.  
**Prerequisite:** Clinical psychology or psychological science major; and doctoral standing.  
**Schedule Type:** Lecture  
**Contact Hours:** 3 lecture  
**Grade Mode:** Standard Letter

**PSYC 70170 INTRODUCTION TO PSYCHOPATHOLOGY: ADULT 3 Credit Hours**  
 (Slashed with PSYC 60170) An examination of the etiology, symptomology and theoretical models of adult psychopathology.  
**Prerequisite:** Clinical psychology or psychological science major; and doctoral standing.  
**Schedule Type:** Lecture  
**Contact Hours:** 3 lecture  
**Grade Mode:** Standard Letter

**PSYC 70192 INTEGRATION PRACTICUM 1-3 Credit Hours**  
 (Repeatable for credit) Integration of assessment, psychopathology and psychotherapy coursework. Emphasis on learning how to conceptualize cases in general and from differing theoretical perspectives.  
**Prerequisite:** PSYC 70292 and PSYC 70792; and clinical psychology or psychological science major; and doctoral standing.  
**Schedule Type:** Lecture, Practical Experience  
**Contact Hours:** 3 lecture  
**Grade Mode:** Satisfactory/Unsatisfactory-IP

**PSYC 70272 INTRODUCTION TO PSYCHOLOGICAL ASSESSMENT 3 Credit Hours**  
 (Slashed with PSYC 60272) Introduction to psychological assessment as a process for solving important clinical problems. Theoretical methodological and research issues are emphasized. Students become familiar with major psychological tests.  
**Prerequisite:** Clinical psychology or psychological science major; and doctoral standing.  
**Schedule Type:** Lecture  
**Contact Hours:** 3 lecture  
**Grade Mode:** Standard Letter

**PSYC 70273 ADVANCED PSYCHOLOGICAL ASSESSMENT: ADULT 3 Credit Hours**  
 (Slashed with PSYC 60273) Examines psychodiagnosis within a context of 'personality-as-a-coherent-whole.' Emphasizes an ideographic approach with a theoretical framework, which organizes and gives meaning to observations.  
**Prerequisite:** PSYC 70272; and clinical psychology or psychological science major; and doctoral standing.  
**Schedule Type:** Lecture  
**Contact Hours:** 3 lecture  
**Grade Mode:** Standard Letter

**PSYC 70274 ADVANCED PSYCHOLOGICAL ASSESSMENT: CHILD 3 Credit Hours**  
 (Slashed with PSYC 60274) Interviewing, developmental and intellectual assessments, personality evaluations, behavioral assessments and assessment of special-child populations. Emphasis on the rationale and integration of research relevant to appropriate use and interpretation.  
**Prerequisite:** PSYC 70272 and PSYC 70292; and clinical psychology or psychological science major; and doctoral standing.  
**Schedule Type:** Lecture  
**Contact Hours:** 3 lecture  
**Grade Mode:** Standard Letter

**PSYC 70275 BEHAVIORAL ASSESSMENT 3 Credit Hours**  
 (Slashed with PSYC 60275) Considers behavioral assessment from an empirical as well as an applied perspective. Intended for persons familiar with general assessment, psychopathology and psychotherapy issues.  
**Prerequisite:** PSYC 70272 and PSYC 70292; and clinical psychology or psychological science major; and doctoral standing.  
**Schedule Type:** Lecture  
**Contact Hours:** 3 lecture  
**Grade Mode:** Standard Letter

**PSYC 70276 NEUROPSYCHOLOGICAL ASSESSMENT 3 Credit Hours**  
 (Slashed with PSYC 60276) Introduction to the conceptual foundations of neuropsychological assessment and practical knowledge in assessment procedures, methods of interpretation and differential diagnosis.  
**Prerequisite:** Clinical psychology or psychological science major; and doctoral standing.  
**Schedule Type:** Lecture  
**Contact Hours:** 3 lecture  
**Grade Mode:** Standard Letter

**PSYC 70292 PSYCHOLOGICAL ASSESSMENT PRACTICUM 1-3 Credit Hours**  
 (Repeatable for credit) Applied aspects of material presented in PSYC 70272. Emphasis on administering, scoring and interpreting major assessment tools.  
**Prerequisite:** Clinical psychology or psychological science major; and doctoral standing.  
**Corequisite:** PSYC 70272.  
**Schedule Type:** Practical Experience  
**Contact Hours:** 1-3 other  
**Grade Mode:** Satisfactory/Unsatisfactory-IP

**PSYC 70324 PROFESSIONAL ISSUES AND ETHICS IN CLINICAL PSYCHOLOGY 3 Credit Hours**  
 (Slashed with PSYC 60324) Review of professional concerns in the field, including training, ethics, client rights, economics, legal issues, relationship to other professions and professional organization and policy.  
**Prerequisite:** Clinical psychology or psychological science major; and doctoral standing.  
**Schedule Type:** Lecture  
**Contact Hours:** 3 lecture  
**Grade Mode:** Standard Letter

**PSYC 70326 CLINICAL ASPECTS OF HEALTH PSYCHOLOGY 3 Credit Hours**

(Slashed with PSYC 60326) Consideration of psychosocial influences on health status that are relevant to the clinician. Attention is given to interventions on both individual and community levels. Emphasis on approaches to prevention treatment and public policy.

**Prerequisite:** Clinical psychology or psychological science major; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PSYC 70371 INTRODUCTION TO PSYCHOLOGICAL THERAPY 3 Credit Hours**

(Slashed with PSYC 60371) Introduction to psychotherapy, with special emphasis on psychodynamic and phenomenological approaches with theory, technique and major research findings considered.

**Prerequisite:** Clinical psychology or psychological science major; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PSYC 70375 COGNITIVE BEHAVIOR THERAPY 3 Credit Hours**

(Slashed with PSYC 60375) Empirical and clinical aspects of cognitive and behavioral interventions. Intended for students familiar with basic psychotherapy assessment and psychopathology issues.

**Prerequisite:** PSYC 70371 and PSYC 70292; and clinical psychology or psychological science major; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PSYC 70376 CHILD PSYCHOTHERAPY 3 Credit Hours**

(Slashed with PSYC 60376) Consideration of various aspects of child psychotherapy, including general issues, traditional therapies, behavior and cognitive behavior therapies and child therapy research. Emphasis on integration of theory technique and research.

**Prerequisite:** Clinical psychology or psychological science major; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PSYC 70382 PEDIATRIC PSYCHOLOGY 3 Credit Hours**

(Slashed with PSYC 40382 and PSYC 50382) Survey of the current topics and research in the field of pediatric (or child health) psychology. Includes a general overview of a number of pediatric psychology topics, including opportunities for more focused study of specific conditions and illnesses. Class sessions cover a mix of general issues (e.g., systems, adherence, diversity, stress and coping), descriptions of clinical roles in pediatric psychology (e.g., consultation liaison, multidisciplinary teams) and specific pediatric conditions with a focus on understanding the role of pediatric psychology.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PSYC 70392 SUPERVISED CLINICAL EXPERIENCE 1-3 Credit Hours**

(Repeatable for credit) Post-practicum, psychological service provision and/or research activities in institution or agency under supervision of licensed psychologist and by arrangement of department of psychology.

**Prerequisite:** PSYC 72392; and doctoral standing; and special approval.

**Schedule Type:** Field Experience

**Contact Hours:** 1-3 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**PSYC 70395 ADVANCED TOPICS IN CLINICAL PSYCHOLOGY 1-6 Credit Hours**

(Repeatable for credit)(Slashed with PSYC 60395) Advanced-level consideration of selected content areas in assessment, psychotherapy, psychopathology, professional issues and community psychology.

Specific topic varies per course offering.

**Prerequisite:** Doctoral standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 1-6 lecture

**Grade Mode:** Standard Letter

**PSYC 70413 COGNITIVE NEUROPSYCHOLOGY 3 Credit Hours**

The effect of brain injury and anomalous neurological development on cognitive skills such as language, perception and memory are explored.

**Prerequisite:** Clinical psychology or psychological science major; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PSYC 70453 INTRODUCTION TO COGNITIVE PSYCHOLOGY 3 Credit Hours**

(Slashed with PSYC 60453) Information-processing approaches to human thought. Focus on processes used to transform, store, manipulate and retrieve sensory input. Topics include attention, pattern recognition, memory and language.

**Prerequisite:** Clinical psychology or psychological science major; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PSYC 70592 PRACTICUM IN DIAGNOSTIC INTERVIEWING 1-3 Credit Hours**

(Repeatable for maximum 3 credit hours) Covers skills clinical psychologists must possess to help clients, effectively work within the field, communicate effectively with peers and colleagues and excel as a clinical researcher. Provides a foundation of skills, knowledge and expertise necessary to competently conduct a diagnostic interview, and provides an introduction to the process of conceptualize a client's presenting problem(s).

**Prerequisite:** Clinical psychology or psychological science major; and doctoral standing.

**Schedule Type:** Practical Experience

**Contact Hours:** 3-9 other

**Grade Mode:** Standard Letter-IP

**PSYC 70604 COGNITIVE DEVELOPMENT 3 Credit Hours**

Examination of theories and research concerning changes in memory, perception, thought and language over the life span.

**Prerequisite:** Clinical psychology or psychological science major; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PSYC 70615 SOCIAL AND PERSONALITY DEVELOPMENT 3 Credit Hours**

Examination of theories and research in social development, with a focus on how personal relationships influence personality development.

**Prerequisite:** Clinical psychology or psychological Science major; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PSYC 70792 PSYCHOTHERAPY PRACTICUM 1-3 Credit Hours**

(Repeatable for credit) Basic training in applied aspects of psychotherapy. Through didactic and experiential methods, students learn basic listening and communication skills that are then applied to specific techniques situations and issues.

**Prerequisite:** Clinical psychology or psychological science major; and doctoral standing.

**Schedule Type:** Practical Experience

**Contact Hours:** 3-9 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**PSYC 70895 ADVANCED TOPICS IN EXPERIMENTAL PSYCHOLOGY 1-6 Credit Hours**

(Repeatable for credit)(Slashed with PSYC 60895) Advanced-level consideration of selected content areas in experimental psychology. Specific topic varies per course offering.

**Prerequisite:** Doctoral standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 1-6 lecture

**Grade Mode:** Standard Letter

**PSYC 70950 HISTORY AND CONTEMPORARY SYSTEMS 3 Credit Hours**

(Slashed with PSYC 60950) Relationships between historical antecedents and the major contemporary systems and theories of psychology.

**Prerequisite:** Clinical psychology or psychological science major; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PSYC 71054 LEARNING AND CONDITIONING 3 Credit Hours**

(Slashed with PSYC 61054) Introduction to basic conditioning processes. Emphasis on Pavlovian and instrumental learning phenomena, particularly as these are exemplified in animal models of behavior.

**Prerequisite:** Clinical psychology or psychological science major; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PSYC 71260 THEORIES OF PERSONALITY 3 Credit Hours**

(Slashed with PSYC 61260) Consideration of major theoretical orientations, including psychoanalysis, phenomenology and those stressing learning. Emphasis on principal concepts; deals less with research methods and findings.

**Prerequisite:** Clinical psychology or psychological science major; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PSYC 71307 PSYCHOBIOLOGICAL ASPECTS OF HEALTH PSYCHOLOGY 3 Credit Hours**

An introduction to non-neural aspects of psychobiology, with emphasis on psycho-endocrinology, psychoimmunology and the psychobiologic aspects of disease.

**Prerequisite:** Clinical psychology or psychological science major; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PSYC 71350 PHYSIOLOGICAL PSYCHOLOGY 3 Credit Hours**

(Slashed with PSYC 61350) Neurophysiological, neurochemical and neuroanatomical factors in the control of cognitive processes motivation and behavior. Emphasis is on the broad coverage of major topics in the field.

**Prerequisite:** Clinical psychology or psychological science major; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PSYC 71395 SPECIAL TOPICS IN CHILD PSYCHOLOGY 3 Credit Hours**

(Repeatable for credit)(Slashed with PSYC 41395 and PSYC 51395) In-depth examination of particular topics of current interest to faculty and students. Specialized areas of child psychology. Specific topic varies per course offering.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PSYC 71507 PSYCHOSOCIAL ASPECTS OF HEALTH PSYCHOLOGY 3 Credit Hours**

Examines concepts of disease and their implications for health. Emphasizes psychosocial stress in disease etiology and psychological factors influencing illness recovery.

**Prerequisite:** Clinical psychology or psychological science major; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PSYC 71548 PSYCHOLOGY OF GENDER AND MINORITIES 3 Credit Hours**

(Slashed with PSYC 61548) Neurophysiological, neurochemical and neuroanatomical factors in the control of cognitive processes motivation and behavior. Emphasis is on the broad coverage of major topics in the field.

**Prerequisite:** Clinical psychology or psychological science major; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PSYC 71580 SOCIAL PSYCHOLOGY 3 Credit Hours**

(Slashed with PSYC 61580) Introduction to empirical research and theories on the psychological processes related to interpersonal and small group behavior.

**Prerequisite:** Clinical psychology or psychological science major; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter



**PSYC 71595 SPECIAL TOPICS IN COUNSELING CAREERS 3 Credit Hours**

(Repeatable for credit)(Slashed with PSYC 41595 and PSYC 51595) In-depth examination of particular topics of current interest to faculty and students. Specialized areas of psychology related to counseling careers. Topic varies per course offering.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PSYC 71651 QUANTITATIVE STATISTICAL ANALYSIS I 3 Credit Hours**

(Slashed with PSYC 61651) Review of univariate statistics and an introduction to using bivariate and multivariate statistics. Part one of a two-semester sequence on statistical analysis.

**Prerequisite:** Clinical psychology or psychological science major; and doctoral standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PSYC 71654 QUANTITATIVE STATISTICAL ANALYSIS II 3 Credit Hours**

(Slashed with PSYC 61654) Multivariate statistics for classifying individuals and variables. Additional topics include power/effect size and handling missing data. Part two of a two-semester sequence on statistical analysis.

**Prerequisite:** PSYC 71651; and clinical psychology or psychological science major; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PSYC 71685 CLINICAL RESEARCH METHODS 3 Credit Hours**

(Slashed with PSYC 61685) Consideration of research methodologies relevant to clinical psychology, with emphasis on strengths and weaknesses of research designs and issues related to collection and evaluation of data.

**Prerequisite:** Clinical psychology or psychological science major; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PSYC 71894 COLLEGE TEACHING OF PSYCHOLOGY 3 Credit Hours**

(Repeatable for maximum 6 credit hours) Training and experience in college teaching.

**Prerequisite:** Clinical psychology or psychological science major; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Satisfactory/Unsatisfactory

**PSYC 71993 VARIABLE TITLE WORKSHOP IN PSYCHOLOGY 1-6 Credit Hours**

(Repeatable for maximum 6 credit hours) Workshop topic varies per course offering.

**Prerequisite:** Clinical psychology or psychological science major; and doctoral standing.

**Schedule Type:** Workshop

**Contact Hours:** 1-6 other

**Grade Mode:** Satisfactory/Unsatisfactory

**PSYC 72392 CLINICAL PRACTICUM 1-3 Credit Hours**

(Repeatable for credit) Beginning practicum in psychological clinic involving selection, administration and evaluation of tests of ability and personality.

**Prerequisite:** Doctoral standing; and special approval.

**Schedule Type:** Practical Experience

**Contact Hours:** 1-3 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**PSYC 72445 MULTIVARIATE STATISTICS 3 Credit Hours**

Intended to cover two major multivariate statistical techniques in psychology: structural equation modeling (SEM) and hierarchical linear modeling (HLM).

**Prerequisite:** PSYC 71654 and PSYC 72445; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PSYC 72492 ADVANCED PRACTICUM 1-3 Credit Hours**

(Repeatable for credit) Intensified experience in the diagnosis and treatment of specific disorders from the scientist-practitioner model.

**Prerequisite:** PSYC 70192 and PSYC 70292 and PSYC 70792; and clinical psychology or psychological science major; and doctoral standing.

**Schedule Type:** Practical Experience

**Contact Hours:** 1-3 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**PSYC 72685 RESEARCH METHODS IN PSYCHOLOGICAL SCIENCE 3 Credit Hours**

(Slashed with PSYC 62685) Course fosters the development of graduate students as independent researchers by helping them acquire knowledge of and facility with quantitative research methods in psychology. The course covers a range of topics that are essential for successful research in psychology, including formulating research questions, measurement, research design, sampling, ethics, writing, replication and validity.

**Prerequisite:** Clinical psychology or psychological science major; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PSYC 73001 CLINICAL NEUROANATOMY 3 Credit Hours**

(Slashed with PSYC 43001 and PSYC 53001)(Cross-listed with BMS 50701 and BMS 70701) Course examines the anatomical organization of the human brain, emphasizing functional aspects of various neural systems, neuroimaging and topics of clinical relevance. Students must have a conceptual understanding of central nervous system organization and memorization of specific neural structures and pathways, as well as knowledge of the impact of structure and systems dysfunction.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PSYC 73002 CURRENT TECHNIQUES IN BEHAVIORAL NEUROSCIENCE 3 Credit Hours**

(Slashed with PSYC 43002 and PSYC 53002)(Cross-listed with BMS 50702 and BMS 70702) Course details current and advanced techniques used in behavioral neuroscience research. Emphasis is placed on understanding the theory behind each technique, and its use in understanding the neural mechanisms of behavior. Detailed protocols for each technique are also covered.

**Prerequisite:** Doctoral standing; and special approval from instructor.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PSYC 73003 NEURAL MECHANISMS OF LEARNING AND MEMORY 3 Credit Hours**

(Slashed with PSYC 43003 and PSYC 53003)(Cross-listed with BMS 50703 and BMS 70703) Course examines the neural and molecular mechanisms underlying learning and memory formation. Covers cellular mechanisms of learning, including long-term potentiation and basic electrophysiology in invertebrate and mammalian preps. Transcriptional and post-translational modifications required for learning and memory formation, genomic signaling and protein synthesis. Also covers structural changes of neurons associated with memory formation, and the different behavioral methods for studying memory.

**Prerequisite:** Doctoral standing; and special approval from instructor.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PSYC 77387 NEUROPSYCHOPHARMACOLOGY 3 Credit Hours**

(Slashed with PSYC 47387 and PSYC 57387) Neuropsychopharmacology is the study of how drugs and other chemicals affect brain and behavior. Course introduces students to the behavioral effects of psychoactive/therapeutic drugs and neurotoxic chemicals in relation to their neural and molecular mechanisms of action. Covers general principles of neuropsychopharmacology; nervous system structure in relation to behavior and mind, brain and behavioral systems that are affected by different classes of drugs and toxic chemicals; and methods employed in neuropsychopharmacology research.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PSYC 80391 SEMINAR IN CLINICAL PSYCHOLOGY 3 Credit Hours**

(Repeatable for credit) Seminar devoted to detailed study of various topics in field of clinical psychology. Specific topic varies per course offering.

**Prerequisite:** Doctoral standing; and special approval.

**Schedule Type:** Seminar

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**PSYC 80491 SEMINAR IN COGNITIVE PSYCHOLOGY 3 Credit Hours**

(Repeatable for credit) Seminar on current research in cognitive psychology. Specific topics will be announced in schedule of classes.

**Prerequisite:** Doctoral standing; and special approval.

**Schedule Type:** Seminar

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**PSYC 81091 SEMINAR IN LEARNING AND BIOPSYCHOLOGY 3 Credit Hours**

(Repeatable for credit) Seminar on current research in learning and biopsychology. Specific topic varies per course offering.

**Prerequisite:** Clinical psychology or psychological science major; and doctoral standing.

**Schedule Type:** Seminar

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**PSYC 81199 DISSERTATION I 15 Credit Hours**

(Repeatable for credit) Doctoral dissertation, for which registration in at least two semesters is required the first of which will be semester in which dissertation work is begun and continuing until the completion of 30 hours.

**Prerequisite:** Doctoral standing; and special approval.

**Schedule Type:** Dissertation

**Contact Hours:** 15 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**PSYC 81299 DISSERTATION II 15 Credit Hours**

(Repeatable for credit) Continuing registration required of doctoral students who have completed the initial 30 hours of dissertation and continuing until all degree requirements are met.

**Prerequisite:** PSYC 81199; and doctoral standing.

**Schedule Type:** Dissertation

**Contact Hours:** 15 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**PSYC 81498 RESEARCH 1-15 Credit Hours**

(Repeatable for credit) Research or individual investigation for doctoral students. Credits may be applied toward degree with department approval.

**Prerequisite:** Doctoral standing; and special approval.

**Schedule Type:** Research

**Contact Hours:** 1-15 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**PSYC 81591 SEMINAR IN PERSONALITY AND SOCIAL PSYCHOLOGY 3 Credit Hours**

(Repeatable for credit) Seminar on current research in areas of social psychology. Specific topics will be announced in schedule of classes.

**Prerequisite:** Doctoral standing in psychology.

**Schedule Type:** Seminar

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**PSYC 81691 SEMINAR IN QUANTITATIVE METHODS 3 Credit Hours**

(Repeatable for credit) Seminar on applications of quantitative methods within various content areas of psychology. Specific topic varies per course offering.

**Prerequisite:** Doctoral standing; and special approval.

**Schedule Type:** Seminar

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

## Department of Sociology

### Criminology and Justice Studies (CRIM)

#### CRIM 12000 INTRODUCTION TO JUSTICE STUDIES 3 Credit Hours

Surveys the U.S. criminal justice system and its component institutions and processes, including overviews of policing, corrections, courts, and their inter-relations in the criminal justice system. An overview is also provided of the nature and measurement of crime, patterns of offending and victimization, and criminal justice responses to offending and victimization. Historical and emerging issues are introduced including a variety of insights related to effective, professional and ethical practices in criminal justice.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** TAG Social and Behavioral Sciences

#### CRIM 22100 BASIC INTERVIEWING 3 Credit Hours

Foundation of basic interviewing principles, including communication models, question format, distortions, topic control, inhibitors, facilitators, listening, types of interviews and practical exercises.

**Prerequisite:** CRIM 12000.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

#### CRIM 22300 POLICE ROLE 3 Credit Hours

Systematic analysis of the police role. An examination of the related research with an emphasis on divergent perspective and development of conceptual models.

**Prerequisite:** CRIM 12000.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** TAG Social and Behavioral Sciences

#### CRIM 22301 THE INVESTIGATIVE PROCESS 3 Credit Hours

An examination of established investigative processes, techniques employed in conducting a systematic investigation and legal implications.

**Prerequisite:** CRIM 12000.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

#### CRIM 26701 CORRECTIONS 3 Credit Hours

Course topics include history of corrections, punishment, community corrections, correctional institutions, correctional administration, issues in corrections, and future trends of corrections.

**Prerequisite:** CRIM 12000.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** TAG Social and Behavioral Sciences

#### CRIM 26704 ISSUES IN LAW AND SOCIETY (KSS) 3 Credit Hours

General treatment of the legal system with special emphasis on its origin, structure and functional consequences on issues and problems in modern society.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Kent Core Social Sciences, Transfer Module Social Sciences

#### CRIM 27095 SPECIAL TOPICS IN CRIMINOLOGY AND JUSTICE STUDIES 2,3 Credit Hours

(Repeatable for a maximum of 6 credit hours) Intensive analysis of issues significant and current in the field which are not covered in regular courses.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 2-3 lecture

**Grade Mode:** Standard Letter

#### CRIM 27311 VICTIMOLOGY 3 Credit Hours

Patterns of victim-offender relationship and process of victimization. Role of victims in criminal process. Problems of adjustment to victimization and issues in victim compensation.

**Prerequisite:** CRIM 12000.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

#### CRIM 32200 POLICE AND COMMUNITY 3 Credit Hours

An examination of the rights of individuals, citizen involvement, the police as members of the community, and the development implementation and evaluation of related programs.

**Prerequisite:** CRIM 12000 and CRIM 22300; and sophomore standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

#### CRIM 32500 CRISIS INTERVENTION 3 Credit Hours

Crisis intervention situations in criminal justice are considered. The service role of criminal justice personnel, community resources and skill development are also considered.

**Prerequisite:** CRIM 12000; and CRIM 22300 or CRIM 27311; and sophomore standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

#### CRIM 33200 CRIMINAL LAW 3 Credit Hours

Developmental backgrounds and principles of criminal law; structure, functions of criminal law; rules of criminal liability and procedural requisites in criminal proof. Case analysis included.

**Prerequisite:** CRIM 12000.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

#### CRIM 33300 DEVELOPMENT OF JUSTICE IN AMERICA 3 Credit Hours

Course focuses on the evolution of the criminal justice process from its establishment in the United States to the present.

**Prerequisite:** CRIM 12000; and sophomore standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CRIM 33400 CRIME AND JUSTICE IN POPULAR CULTURE 3 Credit Hours**

Crime and criminal justice as they are socially constructed and portrayed in popular culture including television, news and entertainment, popular film and other media of popular culture. Critical analysis of relations between popular culture, media institutions, crime and justice. Role of popular culture media in shaping public opinions about crime and justice, and in turn the relevance of public opinion for understanding criminal justice politics and policy.

**Prerequisite:** CRIM 12000; and sophomore standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CRIM 34200 CRIMINAL PROCEDURES AND EVIDENCE 3 Credit Hours**

This course focuses on the use of evidence and the legal procedures followed in the processing of criminal cases. Case analysis and writing assignments required.

**Prerequisite:** CRIM 12000 or PLST 18000.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CRIM 34311 YOUTH AND THE JUSTICE SYSTEM 3 Credit Hours**

Analysis of situations involving the legal rights of children and youths, which demand intervention by justice institutions or service agencies.

**Prerequisite:** CRIM 12000.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CRIM 34500 UNDERSTANDING CRIMINAL LAW THROUGH FICTION 3 Credit Hours**

Exploration of legal concepts and their application as reflected in popular and literary fiction. Legal analysis of important issues involving criminal and civil law, criminal and civil procedures, evidence, courts and related legal topics. Application of legal issues and procedures to real life situations.

**Prerequisite:** CRIM 12000 and CRIM 26704; and junior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CRIM 36702 CRIMINOLOGY 3 Credit Hours**

Examines crime from the legal and social viewpoints; including extent and patterns of criminal behavior. Special emphasis on theoretical explanations of criminal behavior and crime rates.

**Prerequisite:** CRIM 12000 or SOC 12050; and junior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** CTAG Criminal Justice, TAG Social and Behavioral Sciences

**CRIM 36703 JUVENILE DELINQUENCY 3 Credit Hours**

Social and personal factors in juvenile delinquency; operation of juvenile justice system; prevention and control of delinquency.

**Prerequisite:** CRIM 12000 and CRIM 36702.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CRIM 36800 LGBTQ POPULATIONS IN THE JUSTICE SYSTEM 3 Credit Hours**

This course explores research on LGBTQ (lesbian, gay, bisexual, transgender, and queer) populations in the juvenile and criminal justice systems. Students will examine the role that sexual orientation, gender identity, and gender expression play in the juvenile and criminal justice system, with particular attention given to the experiences of LGBTQ people within these institutions. Drawing on sociological theories of sex and gender and queer criminology, the course will review historical trends in the treatment of LGBTQ people in the justice systems, circumstances facing LGBTQ populations (sexual assault, harassment, hate crimes, institutional discrimination), and policy developments and innovations.

**Prerequisite:** SOC 12050 or CRIM 12000; and sophomore standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CRIM 37091 SEMINAR IN CRITICAL ISSUES IN CRIMINOLOGY AND JUSTICE STUDIES 1-3 Credit Hours**

(Repeatable for credit) Intense analysis of issues significant and current in the justice field which are not covered in regular courses.

**Prerequisite:** CRIM 12000; and sophomore standing.

**Schedule Type:** Seminar

**Contact Hours:** 1-3 other

**Grade Mode:** Standard Letter-IP

**CRIM 37095 SPECIAL TOPICS IN CRIMINOLOGY AND JUSTICE STUDIES 3 Credit Hours**

(Repeatable for a maximum of 6 credit hours) Intensive analysis of issues significant and current in the field which are not covered in regular courses. Repeatable for a total of 6 hours.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CRIM 37311 MINORITIES IN CRIME AND JUSTICE (DIVD) 3 Credit Hours**

Focus on the role of social and ethnic minorities as victims, offenders and participants in the justice process.

**Prerequisite:** Junior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Diversity Domestic

**CRIM 37411 WOMEN IN CRIME AND JUSTICE (DIVD) 3 Credit Hours**

Women as a significant group in crime and their role in the development and operation of the criminal justice system.

**Prerequisite:** Junior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Diversity Domestic

**CRIM 37511 IMMIGRATION: LAW, CRIME AND JUSTICE (DIVD) 3 Credit Hours**

Covers issues of immigration related to law, crime, and justice. Students will be introduced to issues of international diversity through the consideration of issues of law, criminal justice, and social justice related to immigration. Topics to be covered include legal and illegal immigration, immigration law enforcement, immigrants as criminal offenders and as crime victims, police-community relations, immigrants in correctional or detention facilities, and immigration as a national security concern and controversy.

**Prerequisite:** Junior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Diversity Domestic

**CRIM 44400 JUSTICE ADMINISTRATION 3 Credit Hours**

Identification of administrative and management functions, leadership management styles and supervision of personnel in justice organizations.

**Prerequisite:** CRIM 12000; and CRIM 22300 (or CRIM 26701); and CRIM 26704.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CRIM 45093 VARIABLE TITLE WORKSHOP IN CRIMINOLOGY AND JUSTICE STUDIES 1-6 Credit Hours**

(Repeatable for credit) (Slashed with CRIM 55093)

**Prerequisite:** Special approval.

**Schedule Type:** Workshop

**Contact Hours:** 1-6 other

**Grade Mode:** Satisfactory/Unsatisfactory

**CRIM 45096 INDIVIDUAL INVESTIGATION 1-3 Credit Hours**

(Repeatable for a maximum of 6 credit hours when topic varies) Involves an individual research project of considerable depth in a subject area not covered by regular course offerings. Prior consent of supervising faculty member is required.

**Prerequisite:** CRIM 12000 and 26704; and SOC 32210; and junior standing; and special approval.

**Schedule Type:** Individual Investigation

**Contact Hours:** 3-9 other

**Grade Mode:** Standard Letter-IP

**CRIM 46200 ADVANCED CRIMINAL AND LEGAL ISSUES 3 Credit Hours**

Focuses on reading, analyzing, and discussing current criminal, evidentiary and procedural issues as set forth in recent and historical U.S. Supreme Court cases. Case analysis, discussion and writing assignments are required.

**Prerequisite:** CRIM 12000 or PLST 18000; and junior standing.

**Schedule Type:** Seminar

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**CRIM 46701 CRIME, JUSTICE AND SUBSTANCE ABUSE 3 Credit Hours**

(Slashed with CRIM 56701) Examination of the relationship between drug and alcohol abuse and criminal behavior. Efforts to regulate, control, prevent and treat chemical abuse offenders are considered.

**Prerequisite:** CRIM 12000 and CRIM 26704.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CRIM 46705 COMMUNITY CORRECTIONS 3 Credit Hours**

(Slashed with CRIM 56705) This course is devoted to an examination of formal and informal approaches to correctional supervision and treatment through probation, parole and community residential treatment.

**Prerequisite:** CRIM 12000 and CRIM 26701.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CRIM 46707 CORRECTIONAL INSTITUTIONS 3 Credit Hours**

A thorough examination of the correctional institution, including the structure and organization, personnel, inmate social world and examination of the issues in contemporary correctional institutions.

**Prerequisite:** CRIM 12000 and CRIM 26701.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CRIM 46708 TREATMENT METHODS 3 Credit Hours**

(Slashed with CRIM 56708) Various methods of treatment are applied to corrections field. Focus is on specific techniques in community and institutional correctional settings. Direct observation utilized when possible.

**Prerequisite:** CRIM 12000 and 26701; and junior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CRIM 46792 INTERNSHIP (ELR) 3-9 Credit Hours**

(Repeatable for a maximum of 12 credit hours) Work experience under direction of supervising faculty member in a private, federal, state or local justice agency or law agency. Students must have a 2.000 major GPA in Criminology and Justice Studies (CRJU) to enroll in this course.

**Prerequisite:** 9 credit hours of Criminology and Justice studies coursework, including CRIM 12000; and a minimum 2.000 overall GPA; and junior standing; and special approval.

**Schedule Type:** Practical Experience

**Contact Hours:** 3-9 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**Attributes:** Experiential Learning Requirement

**CRIM 46798 RESEARCH IN CRIMINOLOGY AND JUSTICE STUDIES (ELR) 3-12 Credit Hours**

(Repeatable for a maximum of 12 credit hours) Individual research under direct supervision of a faculty member to provide direct hands-on research experience working on faculty research projects. Prior consent of supervising faculty member is required. Only 6 hours of nontraditional coursework can count towards the major.

**Prerequisite:** CRIM 12000 and CRIM 26704; and SOC 32210; and special approval.

**Schedule Type:** Research

**Contact Hours:** 3-12 other

**Grade Mode:** Standard Letter-IP

**Attributes:** Experiential Learning Requirement



**CRIM 46800 INTELLIGENCE AND NATIONAL SECURITY 3 Credit Hours**

(Slashed with CRIM 56800) Addresses topics related to global security, including economic and industrial espionage, trade secret thefts, law and technology and cyber-crimes. Implications of industrial espionage and intellectual property theft for the global economy, national and international security, and the control and regulation of white collar crime. Foundational exploration of Intelligence and Counterintelligence (IC) as concepts, processes and careers.

**Prerequisite:** CRIM 12000; and junior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CRIM 46801 HOMELAND SECURITY 3 Credit Hours**

(Slashed with CRIM 56801) Explores the nexus between terrorism and homeland security as it relates to homeland security strategy, assessment, evaluation, preparation, responses, and recovery actions and mechanisms relating to terrorism and homeland security. There is a focus on the importance of coordination of various assessments, plans, strategies and implementation of plans of action involving local, county, state, federal and international responses pertaining to terrorism and homeland security.

**Prerequisite:** CRIM 12000; and junior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CRIM 46802 TERRORISM AND COUNTERTERRORISM 3 Credit Hours**

(Slashed with CRIM 56802) Examines the origins and evolution of modern terrorism, challenges posed by terrorist groups to states and to the international system, and strategies employed to confront and combat terrorism. Assesses a wide variety of terrorist organizations, and explores the psychological, socioeconomic, political, and religious causes of terrorist violence past and present. Also analyzes the strengths and weaknesses of various counterterrorism efforts.

**Prerequisite:** CRIM 12000; and junior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CRIM 46803 INFORMATION AND CYBER SECURITY 3 Credit Hours**

(Slashed with CRIM 56803) Vulnerabilities of computer networks and techniques for protecting networks and data are discussed. Basic elements of symmetric and asymmetric cryptography, secure e-commerce, involving secure transmission, authentication, digital signatures, digital certificates and Public Key Infrastructure (PKI) are presented. Provides students with an introduction to the field of information security risk assessment. Incorporates cases in risk analysis derived from actual state and law enforcement agencies or private firms.

**Prerequisite:** CRIM 12000; and junior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CRIM 46904 ISSUES IN POLICE WORK 3 Credit Hours**

(Slashed with CRIM 56904) Analysis of police practices and functions at the municipal, state and federal level. Examination of emerging trends and issues in policing. Review of changes in police department policies and research on problem-solving in policing.

**Prerequisite:** CRIM 12000 and CRIM 22300; and junior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CRIM 47002 HUMAN SERVICE AGENCIES AND THE LAW 3 Credit Hours**

(Slashed with CRIM 57002) An overview of the law as it pertains to human service agencies, as well as on the relationships between such agencies and the criminal and juvenile justice systems. Focused attention is given to agencies that closely connect with vulnerable populations (such as children and the poor) and those that work closely with policing and corrections (such as mental health agencies and halfway houses).

**Prerequisite:** CRIM 12000; and junior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CRIM 47003 RESTORATIVE JUSTICE AND VICTIM ASSISTANCE 3 Credit Hours**

(Slashed with CRIM 57003) An inquiry into the theories and research in restorative justice, as well as an assessment of victim assistance protocols and programs. Examines restorative justice and victim assistance initiatives that provide an alternative framework for dealing with crime that places victim needs in a primary position, while addressing legal concerns and interagency differences.

**Prerequisite:** CRIM 12000 and CRIM 27311; and junior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CRIM 47004 LEGAL PERSPECTIVES AND RIGHTS IN VICTIMIZATION 3 Credit Hours**

(Slashed with CRIM 57004) An analysis of the legal rights of victims of crime at state and federal levels as well as a review of how these laws relate to the treatment of victims within the criminal and juvenile justice systems, with particular focus on the courts and correctional institutions. Relevant legislative and Constitutional changes and challenges are also addressed.

**Prerequisite:** CRIM 12000 and CRIM 27311; and junior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CRIM 47095 SPECIAL TOPICS IN CRIMINOLOGY AND JUSTICE STUDIES 3 Credit Hours**

(Repeatable for credit) Intensive analysis of issues significant and current in the field which are not covered in regular courses.

**Prerequisite:** CRIM 12000 and 26704.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CRIM 47211 COURT FUNCTIONS 3 Credit Hours**

Analysis of the structure, functions and critical role of incumbents in the criminal court.

**Prerequisite:** CRIM 12000 and 26704.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CRIM 47311 COMPARATIVE JUSTICE SYSTEMS 3 Credit Hours**

A systematic comparison of the developmental backgrounds, structure and functioning of the major systems of justice in the modern world.

**Prerequisite:** CRIM 12000 and CRIM 26704.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CRIM 55093 VARIABLE TITLE WORKSHOP IN CRIMINOLOGY AND JUSTICE STUDIES 1-3 Credit Hours**

(Repeatable for credit) (Slashed with CRIM 45093) Classroom presentations and field study focused on professional and disciplinary concerns. Specific content varies with workshop topic.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Workshop

**Contact Hours:** 1-3 other

**Grade Mode:** Satisfactory/Unsatisfactory

**CRIM 56701 CRIME, JUSTICE AND SUBSTANCE ABUSE 3 Credit Hours**

(Slashed with CRIM 46701) Examination of the relationship between drug and alcohol abuse and criminal behavior. Efforts to regulate, control, prevent and treat chemical abuse offenders are considered.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CRIM 56705 COMMUNITY CORRECTIONS 3 Credit Hours**

(Slashed with CRIM 46705) Study of community-based correctional supervision and treatment, examining probation, parole, and related residential programs. Topics covered include the history and organization of, and best practices in, community corrections.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CRIM 56708 TREATMENT METHODS 3 Credit Hours**

(Slashed with CRIM 46708) Addresses institutional- and community-based treatment of offenders. Coverage includes the theoretical foundations of treatment and common intervention strategies, including evidence-based practices.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CRIM 56709 EMERGING TRENDS AND ISSUES IN CORRECTIONS 3 Credit Hours**

Explores recent developments pertinent to the field of corrections, including sentencing trends, innovative practices, and legal developments. Analysis of emerging strategies for offender treatment, re-entry, and institutional and community safety.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CRIM 56800 INTELLIGENCE AND NATIONAL SECURITY 3 Credit Hours**

(Slashed with CRIM 46800) Addresses topics related to global security, including economic and industrial espionage, trade secret thefts, law and technology and cyber-crimes. Implications of industrial espionage and intellectual property theft for the global economy, national and international security, and the control and regulation of white collar crime. Foundational exploration of Intelligence and Counterintelligence (IC) as concepts, processes and careers.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CRIM 56801 HOMELAND SECURITY 3 Credit Hours**

(Slashed with CRIM 46801) Explores the nexus between terrorism and homeland security as it relates to homeland security strategy, assessment, evaluation, preparation, responses, and recovery actions and mechanisms relating to terrorism and homeland security. There is a focus on the importance of coordination of various assessments, plans, strategies and implementation of plans of action involving local, county, state, federal and international responses pertaining to terrorism and homeland security.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CRIM 56802 TERRORISM AND COUNTERTERRORISM 3 Credit Hours**

(Slashed with CRIM 46802) Examines the origins and evolution of modern terrorism, challenges posed by terrorist groups to states and to the international system, and strategies employed to confront and combat terrorism. Assesses a wide variety of terrorist organizations, and explores the psychological, socioeconomic, political, and religious causes of terrorist violence past and present. Also analyzes the strengths and weaknesses of various counterterrorism efforts.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CRIM 56803 INFORMATION AND CYBER SECURITY 3 Credit Hours**

(Slashed with CRIM 46803) Vulnerabilities of computer networks and techniques for protecting networks and data are discussed. Basic elements of symmetric and asymmetric cryptography, secure e-commerce, involving secure transmission, authentication, digital signatures, digital certificates and Public Key Infrastructure (PKI) are presented. Provides students with an introduction to the field of information security risk assessment. Incorporates cases in risk analysis derived from actual state and law enforcement agencies or private firms.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CRIM 56904 ISSUES IN POLICE WORK 3 Credit Hours**

(Slashed with CRIM 46904) Analysis of police practices and functions at the municipal, state and federal level. Examination of emerging trends and issues in policing. Review of changes in police department policies and research on problem-solving in policing.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CRIM 57002 HUMAN SERVICE AGENCIES AND THE LAW 3 Credit Hours**

(Slashed with CRIM 47002) An overview of the law as it pertains to human service agencies, as well as on the relationships between such agencies and the criminal and juvenile justice systems. Focused attention is given to agencies that closely connect with vulnerable populations (such as children and the poor) and those that work closely with policing and corrections (such as mental health agencies and halfway houses).

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CRIM 57003 RESTORATIVE JUSTICE AND VICTIM ASSISTANCE 3 Credit Hours**

(Slashed with CRIM 47003) An inquiry into the theories and research in restorative justice, as well as an assessment of victim assistance protocols and programs. Examines restorative justice and victim assistance initiatives that provide an alternative framework for dealing with crime that places victim needs in a primary position, while addressing legal concerns and interagency differences.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CRIM 57004 LEGAL PERSPECTIVES AND RIGHTS IN VICTIMIZATION 3 Credit Hours**

(Slashed with CRIM 47004) An analysis of the legal rights of victims of crime at state and federal levels as well as a review of how these laws relate to the treatment of victims within the criminal and juvenile justice systems, with particular focus on the courts and correctional institutions. Relevant legislative and Constitutional changes and challenges are also addressed.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CRIM 57095 SPECIAL TOPICS IN CRIMINOLOGY AND JUSTICE STUDIES 1-3 Credit Hours**

(Repeatable for credit) Intensive analysis of issues significant and current in the field which are not covered in regular courses.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 1-3 lecture

**Grade Mode:** Standard Letter

**CRIM 66199 THESIS I 2-6 Credit Hours**

(Repeatable for credit) Thesis students must register for a total of 6 hours, 2 to 6 hours in a single semester distributed over several semesters if desired.

**Prerequisite:** Graduate standing.

**Schedule Type:** Masters Thesis

**Contact Hours:** 2-6 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**CRIM 66299 THESIS II 2 Credit Hours**

Thesis students must continue to register for each semester until all degree requirements are met.

**Prerequisite:** CRIM 66199; and graduate standing.

**Schedule Type:** Masters Thesis

**Contact Hours:** 2 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**CRIM 66761 LAW, JUSTICE AND SOCIETY 3 Credit Hours**

Review of the origins, structure and functioning of law in relation to social context and process. Critical assessment of the use of law and legal institutions to address societal problems. Examination of the role that social inequality plays in crime and justice, nationally and internationally.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CRIM 66763 THEORIES OF CRIME AND DELINQUENCY 3 Credit Hours**

Study of the nature and causes of criminal and delinquent behavior, with an emphasis on major contemporary criminological theories. Includes critical analysis of relevant research and policy implications.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CRIM 66766 INSTITUTIONAL CORRECTIONS 3 Credit Hours**

Explores the historical development and theoretical foundations of the correctional institution, including jails and prisons, the structure of institutions and operational challenges. Incorporates overview of contemporary issues and the correctional institution as a social system.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CRIM 66767 JUSTICE ADMINISTRATION 3 Credit Hours**

Introduces students to theories of organization and administration and their application to the administration of justice institutions. The course is divided into two sections: (1) theories of administration and organization and (2) application of theories to management of police functions. Includes use of theories to diagnose and reform justice institutions.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CRIM 66768 RESEARCH METHODS IN CRIMINOLOGY AND CRIMINAL JUSTICE 3 Credit Hours**

Examines the methodology of research designs and techniques used in criminology and criminal justice. Provides students with an overview of the logic of research in order to critically evaluate research in the field. Focuses on the specific skills needed to conduct basic and evaluation research.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CRIM 66770 JUSTICE INSTITUTIONS 3 Credit Hours**

Introduces students to the analysis of U.S. criminal justice institutions. Examines methods of institutional analysis, theories of administration, and the application of these theories to the understanding of police, courts and corrections.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CRIM 66772 VICTIMOLOGY 3 Credit Hours**

Exploration of victimology, the scientific study of the physical, emotional, and financial harm people suffer because of criminal activities.

Examination of the impact of crime on victims, measuring crime through victimization, patterns of victim-offender relationships, and the role of the victim within the criminal and juvenile justice systems.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CRIM 66773 CONTEMPORARY POLICING 3 Credit Hours**

The fundamental question of this course is how to create the most effective police organization. This course examines the various theories and research on police service. Examines the nature of coercion in human interaction and the legitimate use of force by police. Study of the various philosophies and research on the Standard Model of policing, Community-Oriented Policing, and Problem-Oriented Policing. Reviews theories of police administration and the research corroborating or refuting the validity of those theories.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CRIM 66795 SPECIAL TOPICS 1-3 Credit Hours**

(Repeatable for credit) Offered irregularly, this course provides opportunity to study special issues developments and programs in justice studies. Topics vary.

**Prerequisite:** Graduate standing and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 1-3 lecture

**Grade Mode:** Standard Letter

**CRIM 66796 INDIVIDUAL INVESTIGATION 1-3 Credit Hours**

(Repeatable for credit) Intensive study of a subject which the student cannot normally pursue in a regularly scheduled course. Individual investigation topic must be approved by instructor and graduate coordinator.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Individual Investigation

**Contact Hours:** 1-3 other

**Grade Mode:** Standard Letter

**CRIM 66875 PROSEMINAR CAPSTONE: ISSUES IN CONTEMPORARY JUSTICE 3 Credit Hours**

Capstone experience required of all MA students. An analysis of current issues in the legislative, policing, judicial, and correctional components of the justice system. Students synthesize knowledge through the completion of an approved, written project that is analytical and research-based.

**Prerequisite:** CRIM 56705 or CRIM 66766; and CRIM 56800 and CRIM 66761 and CRIM 66763 and CRIM 66768 and CRIM 66770 and CRIM 66772; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Sociology (SOC)****SOC 12050 INTRODUCTION TO SOCIOLOGY (DIVD) (KSS) 3 Credit Hours**

Scientific approach to understanding social interaction, institutions and organization.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Diversity Domestic, Kent Core Social Sciences, TAG Social and Behavioral Sciences, Transfer Module Social Sciences

**SOC 22100 SOCIOLOGICAL ANALYSIS 3 Credit Hours**

Fundamental study of sociological analysis designed to provide awareness of theoretical and methodological concepts necessary in developing sociological perspective.

**Prerequisite:** SOC 12050.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SOC 22570 UNDERSTANDING DIFFERENCES AND INEQUALITY 3 Credit Hours**

An introduction to the cultural and structural factors creating and sustaining educational, economic and political inequality by race, ethnicity, gender, class and sexual orientation with an emphasis on issues of poverty and immigration.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** TAG Social and Behavioral Sciences

**SOC 22778 SOCIAL PROBLEMS (DIVG) (KSS) 3 Credit Hours**

Contemporary American and global social problems and issues are analyzed from sociological perspectives. Several cases are used to illustrate the emergence, development and decline of problems in social context.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Diversity Global, Kent Core Social Sciences, TAG Social and Behavioral Sciences, Transfer Module Social Sciences

**SOC 24011 INTERPERSONAL RELATIONSHIPS AND FAMILIES 3 Credit Hours**

(Equivalent to HDFS 24011) Exploration of the sociological nature of families across the lifespan, focusing on structure, diversity and life course processes such as dating, mate selection, cohabitation, marriage, parenthood, divorce, remarriage, singlehood, widowhood, parent-child interactions, sexual orientation, inequality and difference.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** TAG Social and Behavioral Sciences

**SOC 31092 PRACTICUM IN SOCIOLOGY (ELR) 1-3 Credit Hours**

(Repeatable for credit) Individual research experience in Sociology.

**Prerequisite:** SOC 32210; and junior standing.

**Schedule Type:** Practical Experience

**Contact Hours:** 1-3 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**Attributes:** Experiential Learning Requirement

**SOC 32005 CAREER PATHWAYS IN SOCIOLOGY AND CRIMINOLOGY AND JUSTICE STUDIES 3 Credit Hours**

This course equips students with an understanding of the career pathways available after completing a major or minor in Sociology or Criminology and Justice Studies. Provides students with a broad overview of career paths in SOC and CRJU while also helping students identify opportunities for internships and research while at KSU.

**Prerequisite:** SOC 12050 or CRIM 12000; and major or minor in sociology or criminal justice; and sophomore standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SOC 32096 INDIVIDUAL INVESTIGATION IN SOCIOLOGY 1-3 Credit Hours**

(Repeatable for credit) Readings and/or research supervised by member of sociology faculty.

**Prerequisite:** SOC 12050; and junior standing; and special approval of instructor.

**Schedule Type:** Individual Investigation

**Contact Hours:** 1-3 other

**Grade Mode:** Standard Letter

**SOC 32210 RESEARCHING SOCIETY (ELR) (WIC) 3 Credit Hours**

Survey of methods and techniques of research; research design and data gathering instruments; qualitative and quantitative analysis.

**Prerequisite:** SOC 12050; and junior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Experiential Learning Requirement, Writing Intensive Course

**SOC 32220 DATA ANALYSIS 3 Credit Hours**

The use of quantitative methods in the analysis of data from social research. Emphasis on descriptive statistics.

**Prerequisite:** SOC 12050.

**Corequisite:** SOC 32221.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SOC 32221 DATA ANALYSIS LABORATORY 1 Credit Hour**

Analysis of sociological data utilizing statistical and electronic data processing tools.

**Corequisite:** SOC 32220.

**Schedule Type:** Laboratory

**Contact Hours:** 3 lab

**Grade Mode:** Standard Letter

**SOC 32400 INDIVIDUAL AND SOCIETY 3 Credit Hours**

Foundations of social psychology; process of socialization; development of social and personal identities; small group and collective behavior; theories of deviance.

**Prerequisite:** SOC 12050.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SOC 32510 SOCIOLOGY OF WORK 3 Credit Hours**

Consideration of world of work across time and cultures with special emphasis on American society. Impact of work on individuals and other social institutions.

**Prerequisite:** SOC 12050.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SOC 32560 SOCIOLOGY OF FAMILIES (DIVD) 3 Credit Hours**

Social history of the American family. Examination of how race, ethnicity, sexual orientation, class, gender and age contribute to variation in the experience and structure of family life in the U.S.

**Prerequisite:** SOC 12050.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Diversity Domestic

**SOC 32565 SOCIOLOGY OF SEXUALITIES (DIVD) 3 Credit Hours**

Examination of the social production, meaning, and consequences of identities, practices, and inequalities related to sexualities, gender identity and gender expression.

**Prerequisite:** SOC 12050.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Diversity Domestic

**SOC 32569 MINORITIES IN THE UNITED STATES (DIVD) 3 Credit Hours**

Considers the nature and significance of minority groups and majority minority relations in the United States. Reviews experiences of racial and ethnic minorities, religious minorities, women, sexual minorities, the elderly and differently abled Americans.

**Prerequisite:** SOC 12050.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Diversity Domestic

**SOC 32570 INEQUALITY IN SOCIETIES (DIVD) 3 Credit Hours**

Sociological analysis of stratification and inequality in societies, and the social structures that produce and maintain them. Particular emphasis on the intersections of race, class and gender in American society.

**Prerequisite:** SOC 12050.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Diversity Domestic

**SOC 32673 URBAN SOCIOLOGY 3 Credit Hours**

Examination of the history and development of urban areas, urban sociological theories and selected topics such as poverty, immigration, race relations and urban planning.

**Prerequisite:** SOC 12050.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter



**SOC 32762 DEVIANT BEHAVIOR 3 Credit Hours**

Overview of classical and contemporary theories and perspectives on the nature, causes and societal management of deviant behavior. Application of theories and perspectives to modern and historical social problems, methods of punishment and policy trends in social control.

**Prerequisite:** SOC 12050.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SOC 42010 DEATH AND DYING 3 Credit Hours**

(Slashed with SOC 52010) Theoretical perspectives and research in human death and dying. Emphasis on applied concerns in medical and helping professions. Topics include social death, death as taboo, medicalization and rationalization of death and dying and disenfranchised grief.

**Prerequisite:** SOC 12050; and junior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SOC 42092 INTERNSHIP IN SOCIOLOGY (ELR) 1-9 Credit Hours**

(Repeatable for credit) Application of sociological knowledge in work or organizational setting. Assist professionals at such sites as social services, hospitals, industry and government. Prerequisite: Minimum 2.0 overall GPA; and sociology major; and junior standing; and special approval

**Prerequisite:** Minimum 2.0 overall GPA; and sociology major; and junior standing; and special approval.

**Schedule Type:** Practical Experience

**Contact Hours:** 3-27 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**Attributes:** Experiential Learning Requirement

**SOC 42093 VARIABLE TITLE WORKSHOP IN SOCIOLOGY 1-6 Credit Hours**

(Repeatable for credit) Concentrates on professional or disciplinary concerns. Specific content to vary according to needs of client groups.

**Prerequisite:** Special approval.

**Schedule Type:** Workshop

**Contact Hours:** 1-6 other

**Grade Mode:** Satisfactory/Unsatisfactory

**SOC 42095 SPECIAL TOPICS IN SOCIOLOGY 3 Credit Hours**

(Repeatable for credit) Offered irregularly when unusual resources and/or opportunities permit. Topic announced when scheduled.

**Prerequisite:** SOC 12050; and junior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SOC 42126 SOCIOLOGICAL THEORIES 3 Credit Hours**

(Slashed with SOC 52126) An examination of classical, modern and postmodern approaches to social theory.

**Prerequisite:** SOC 12050; and junior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SOC 42224 INTERPRETING SOCIAL DATA 3 Credit Hours**

Emphasis on organizing, analyzing and interpreting actual sociological research data making use of basic descriptive and inferential statistics and computer programs.

**Prerequisite:** SOC 32210 or SOC 32220; and special approval.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**SOC 42315 SOCIOLOGY OF GENDER (DIVD) 3 Credit Hours**

(Slashed with SOC 52315) An examination of the institutions, institutional linkages and social processes that contribute to the construction and maintenance of gender and gender inequality.

**Prerequisite:** SOC 12050; and junior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Diversity Domestic

**SOC 42359 SOCIAL MOVEMENTS 3 Credit Hours**

(Slashed with SOC 52359) Investigation of various movements for social change. Examines the origins, developmental characteristics and the purposes of classic and contemporary movements.

**Prerequisite:** SOC 12050; and junior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SOC 42400 SELF AND IDENTITY 3 Credit Hours**

Examines theories and research on the origin and behavioral consequences of identities, self-concept and self-esteem; also examines the relationships between identities and emotions and between self-concept and mental health.

**Prerequisite:** SOC 12050; and junior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SOC 42421 CHILDHOOD IN SOCIETY 3 Credit Hours**

(Slashed with SOC 52421) How socio-historical circumstances shape the perception and experience of childhood as a distinct life stage. The process of childhood socialization in Western societies particularly the United States. An exploration of the distinct role of socializing agents- parents and siblings, school, peers and media.

**Prerequisite:** SOC 12050; and junior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SOC 42478 ADOLESCENCE IN SOCIETY 3 Credit Hours**

(Slashed with SOC 52478) Consideration of the social, cultural and historical forces that shape the experience of this period of the life cycle. Includes examination of gender, class and race differences in adolescence the significance of youth movements, with an emphasis on music as a dominant expression of youth culture.

**Prerequisite:** SOC 12050; and junior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SOC 42558 WEALTH, POVERTY AND POWER 3 Credit Hours**

(Slashed with SOC 52558) Sociological examination of economic stratification; focuses on the translation of class into power via politics, education and collective struggle.

**Prerequisite:** SOC 12050; and junior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SOC 42559 CULTURE AND SOCIETY 3 Credit Hours**

Overview of the sociological analysis of culture, popular culture and the media. Includes examination of key theoretical perspectives, the production and consumption of culture, culture and inequality, and other current issues in the sociological study of culture.

**Prerequisite:** SOC 12050; and sophomore standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SOC 42560 SOCIOLOGY OF FOOD 3 Credit Hours**

(Slashed with SOC 52560) Food is essential, but like every other aspect of our lives, the meaning of food and the experience of its preparation and consumption are socially determined. Course explores the social dimensions of food consumption and production. Students consider the following questions and answer them by developing an understanding of sociological concepts and theories: What do our meals reveal about us – about our history, culture, our gender and race and ethnicity, socio-economic status, religious beliefs and our family life? How does food consumption differ in different societies? How do the media and corporations influence our food choices? What does food mean symbolize and in what ways are these meanings manipulated and why? How is food production carried out in different contexts and what can we learn about the social organization of work from studying food production? How does what we eat contribute to local and global environmental problems?

**Prerequisite:** SOC 12050.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SOC 42561 SOCIOLOGY OF RELIGION 3 Credit Hours**

(Slashed with SOC 52561) Social context of religious ideologies and structures with special reference to religion in America.

**Prerequisite:** SOC 12050; and junior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SOC 42562 SOCIOLOGY OF MENTAL ILLNESS 3 Credit Hours**

A sociology of mental health and illness; focuses on how social factors influence and are influenced by mental health status; topics include definition and measurement, social distribution, social control of mental illness, societal reaction and media coverage.

**Prerequisite:** SOC 12050; and junior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SOC 42563 SOCIOLOGY OF HEALTH AND HEALTH CARE 3 Credit Hours**

(Slashed with SOC 52563) Sociological analysis of health and illness behavior and utilization of health care professions, as well as the organizational, community and societal systems that deal with health and illness.

**Prerequisite:** SOC 12050; and junior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SOC 42564 BUREAUCRATIC ORGANIZATIONS 3 Credit Hours**

(Slashed with SOC 52564) Analysis of structure and functioning of complex organizations in their cultural context.

**Prerequisite:** SOC 12050; and junior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SOC 42568 RACE AND ETHNIC STUDIES (DIVD) 3 Credit Hours**

(Slashed with SOC 52568) Sociological principles underlying racial and ethnic relations in the United States; emphasis on social factors of prejudice, discrimination and assimilation affecting all groups.

**Prerequisite:** SOC 12050; and junior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Diversity Domestic

**SOC 42575 FAMILIES IN A GLOBAL PERSPECTIVE (DIVG) 3 Credit Hours**

Cultural variability with respect to courtship, family relationships, child rearing and other family patterns in societies across different continents, including Africa, Asia and South America.

**Prerequisite:** SOC 12050; and junior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Diversity Global

**SOC 42577 SOCIOLOGY OF FAMILY VIOLENCE 3 Credit Hours**

(Slashed with SOC 52577) Sociological analysis of theories, research and social policy concerning family violence, child abuse and neglect, spouse abuse, elderly abuse, marital rape, sexual abuse of children.

**Prerequisite:** Sociology 12050; and junior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SOC 42879 AGING IN SOCIETY (DIVD) 3 Credit Hours**

(Slashed with SOC 52879) Analysis of demographic, sociological and socio-psychological dimensions of aging.

**Prerequisite:** SOC 12050; and junior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Diversity Domestic

**SOC 43200 SOCIAL STRUCTURE AND INDIVIDUAL LIVES 3 Credit Hours**

Examines conceptualizations for and evidence concerning the effects of social structure on various dimensions of individual lives.

**Prerequisite:** SOC 12050; and junior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SOC 44010 SOCIOLOGICAL PERSPECTIVES IN MEDICINE 3 Credit Hours**

(Slashed with SOC 54010) Sociological perspectives of medicine focusing on community health and public health prevention efforts, rather than traditional medical curricula. Students employ sociological theories and methods to develop community interventions directed at preventing contemporary health problems.

**Prerequisite:** SOC 12050.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter-IP

**SOC 52010 DEATH AND DYING 3 Credit Hours**

(Slashed with SOC 42010) Theoretical perspectives and research in human death and dying. Emphasis on applied concerns in medical and helping professions. Topics include social death, death as taboo, medicalization and rationalization of death and dying, and disenfranchised grief.

**Prerequisite:** Sociology major; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SOC 52126 SOCIOLOGICAL THEORIES 3 Credit Hours**

(Slashed with SOC 42126) An examination of classical, modern and post-modern approaches to social theory.

**Prerequisite:** Sociology major; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SOC 52315 SOCIOLOGY OF GENDER 3 Credit Hours**

(Slashed with SOC 42315) An examination of the institutions, institutional linkages and social processes that contribute to the construction and maintenance of gender and gender inequality.

**Prerequisite:** Sociology major; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SOC 52359 SOCIAL MOVEMENTS 3 Credit Hours**

(Slashed with SOC 42359) Investigation of various movements for social change. Examines the origins, developmental characteristics and the purposes of classic and contemporary movements.

**Prerequisite:** Sociology major; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SOC 52421 CHILDHOOD IN SOCIETY 3 Credit Hours**

(Slashed with SOC 42421) How socio-historical circumstances shape the perception and experience of childhood as a distinct life stage. The process of childhood socialization in Western societies particularly the United States. An exploration of the distinct role of socializing agents—parents and siblings, school, peers and media.

**Prerequisite:** Sociology major; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SOC 52478 ADOLESCENCE IN SOCIETY 3 Credit Hours**

(Slashed with SOC 42478) Consideration of the social, cultural and historical forces that shape the experience of this period of the life cycle. Includes examination of gender, class and race differences in adolescence the significance of youth movements, with an emphasis on music as a dominant expression of youth culture.

**Prerequisite:** Sociology major; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SOC 52558 WEALTH, POVERTY AND POWER 3 Credit Hours**

(Slashed with SOC 42558) Sociological examination of economic stratification in the United States; focuses on the translation of class into power via politics, education and collective struggle.

**Prerequisite:** Sociology major; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SOC 52560 SOCIOLOGY OF FOOD 3 Credit Hours**

(Slashed with SOC 42560) Food is essential, but like every other aspect of our lives, the meaning of food and the experience of its preparation and consumption are socially determined. Course explores the social dimensions of food consumption and production. Students consider the following questions and answer them by developing an understanding of sociological concepts and theories: What do our meals reveal about us – about our history, culture, our gender and race and ethnicity, socio-economic status, religious beliefs and our family life? How does food consumption differ in different societies? How do the media and corporations influence our food choices? What does food mean symbolize and in what ways are these meanings manipulated and why? How is food production carried out in different contexts and what can we learn about the social organization of work from studying food production? How does what we eat contribute to local and global environmental problems?

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SOC 52561 SOCIOLOGY OF RELIGION 3 Credit Hours**

(Slashed with SOC 42561) Social context of religions and their ideologies and structures with special reference to religion in America.

**Prerequisite:** Sociology major; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SOC 52563 SOCIOLOGY OF HEALTH AND HEALTH CARE 3 Credit Hours**

(Slashed with SOC 42563) Sociological analysis of health and illness behavior and utilization of health care professions, as well as the organizational, community and societal systems that deal with health and illness.

**Prerequisite:** Sociology major; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SOC 52564 BUREAUCRATIC ORGANIZATIONS 3 Credit Hours**

(Slashed with SOC 42564) Analysis of structure and functioning of complex organizations in their cultural context.

**Prerequisite:** Sociology major; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SOC 52568 RACE AND ETHNIC STUDIES 3 Credit Hours**

(Slashed with SOC 42568) Sociological principles underlying racial and ethnic relations in the United States; emphasis on social factors of prejudice, discrimination and assimilation affecting all groups.

**Prerequisite:** Sociology major; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SOC 52577 SOCIOLOGY OF FAMILY VIOLENCE 3 Credit Hours**

(Slashed with SOC 42577) Sociological analysis of theories, research and social policy concerning family violence, child abuse and neglect, spouse abuse, elderly abuse, marital rape, sexual abuse of children.

**Prerequisite:** Sociology major; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SOC 52879 AGING IN SOCIETY 3 Credit Hours**

(Slashed with SOC 42879) Analysis of demographic, sociological and sociopsychological dimensions of aging.

**Prerequisite:** Sociology major; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SOC 54010 SOCIOLOGICAL PERSPECTIVES IN MEDICINE 3 Credit Hours**

(Slashed with SOC 44010) Sociological perspectives of medicine focusing on community health and public health prevention efforts, rather than traditional medical curricula. Students employ sociological theories and methods to develop community interventions directed at preventing contemporary health problems.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter-IP

**SOC 61003 CRIMINOLOGICAL THEORY 3 Credit Hours**

(Slashed with SOC 71003) Examines the major theories in criminology that have been used to explain criminal behavior. This course includes analysis of empirical tests, applications of the theories, and social policy implications.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SOC 61004 SOCIOLOGY OF CORRECTIONS 3 Credit Hours**

(Slashed with SOC 71004) Analyzes the correctional institution as a social system: formal structure and informal dynamics. It covers problems and programs found in community corrections as well as the institutional setting. It examines approaches to correctional supervision and treatment through probation, parole, and community residential treatment.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SOC 61005 JUVENILE DELINQUENCY 3 Credit Hours**

(Slashed with SOC 71005) Provides an analysis of the issues and current research related to juvenile delinquency and the juvenile justice process.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SOC 62002 PROFESSIONAL AND ETHICAL ISSUES IN SOCIOLOGY 3 Credit Hours**

(Slashed with SOC 72002) Introduction to professional and ethical issues in the field of sociology including the logic of inquiry, developing effective approaches to independent learning and research, the human subjects review process and plagiarism. Akron 3850:628.

**Prerequisite:** Sociology major; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SOC 62093 VARIABLE TITLE WORKSHOP IN SOCIOLOGY 1-6 Credit Hours**

(Repeatable for credit)(Slashed with SOC 72093) Concentrates on professional or disciplinary concerns. Specific content to vary according to needs of client groups.

**Prerequisite:** Graduate standing.

**Schedule Type:** Workshop

**Contact Hours:** 1-6 other

**Grade Mode:** Satisfactory/Unsatisfactory

**SOC 62100 EARLY SOCIOLOGICAL THEORY 3 Credit Hours**

(Slashed with SOC 72100) An examination of the contributions by pre-1930 social thinkers to contemporary sociological theory. Akron 3850:722.

**Prerequisite:** SOC 52126; and sociology major; and graduate standing.

**Schedule Type:** Seminar

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**SOC 62105 CONTEMPORARY SOCIOLOGICAL THOUGHT 3 Credit Hours**

(Slashed with SOC 62105) Covers major contemporary theories and theorists. Emphasis on functionalism, conflict, exchange, interactionism and systems theory. Neofunctionalism, neo-Marxism, structuration theory and other recent trends are treated. Akron 3850:723.

**Prerequisite:** SOC 62100; and sociology major; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SOC 62199 THESIS I 2-6 Credit Hours**

Thesis students must register for a total of 6 hours, 2 to 6 hours in a single semester distributed over several semesters if desired.

**Prerequisite:** Graduate standing in sociology; and special approval.

**Schedule Type:** Masters Thesis

**Contact Hours:** 2-6 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**SOC 62211 QUANTITATIVE METHODS IN SOCIOLOGY 4 Credit Hours**

Introduction to the use of quantitative research methods for analyzing sociological issues. Includes instruction on each step in the process of empirically verifying a theoretical question, from conceptualization to analysis. Akron 3850:603.

**Prerequisite:** Graduate standing in sociology.

**Schedule Type:** Lecture

**Contact Hours:** 4 lecture

**Grade Mode:** Standard Letter

**SOC 62217 MULTIVARIATE TECHNIQUES IN SOCIOLOGY 4 Credit Hours**

(Slashed with SOC 72217) Advanced multivariate techniques and methodological problems in the analysis of sociological data. Topics include non-experimental causal models and path analysis. Akron 3850:706.

**Prerequisite:** SOC 32220; and sociology major; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 4 lecture

**Grade Mode:** Standard Letter

**SOC 62218 ADVANCED DATA ANALYSIS 4 Credit Hours**

(Slashed with SOC 72218) Critical examination of data analytic techniques having particular relevance to research problems in sociology, with particular emphasis on multi-variate inferential statistics. Akron 3850:709.

**Prerequisite:** SOC 62217; and sociology major; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 4 lecture

**Grade Mode:** Standard Letter

**SOC 62219 QUALITATIVE METHODS IN SOCIOLOGY 4 Credit Hours**

(Slashed with SOC 72219) Study of qualitative methods including interviewing, observation, use of personal documents, archival data and special problems of recording and analyzing qualitative data. Akron 3850:714.

**Prerequisite:** Sociology major; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 4 lecture

**Grade Mode:** Standard Letter

**SOC 62220 SURVEY RESEARCH METHODS 3 Credit Hours**

(Slashed with SOC 72220) An in-depth study of the design and administration of social surveys. Akron 3850:711.

**Prerequisite:** Sociology major; and graduate standing.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**SOC 62221 ADVANCED QUALITATIVE METHODS IN SOCIOLOGY 3 Credit Hours**

(Slashed with SOC 72221) Provides students with the opportunity to conceive, design and carry out their own qualitative research projects. Students also survey readings that are exemplars of high quality and rigorous qualitative research. Topics such as writing, analysis and ethics are covered as students develop and move forward on their own original research. Students must be actively engaged in a qualitative research project to enroll in the course.

**Prerequisite:** SOC 62219; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SOC 62299 THESIS II 2 Credit Hours**

Thesis students must continue registration each semester until all degree requirements are met.

**Prerequisite:** SOC 62199; and graduate standing in sociology; and special approval.

**Schedule Type:** Masters Thesis

**Contact Hours:** 2 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**SOC 62323 SOCIOLOGY OF HEALTH AND ILLNESS 3 Credit Hours**

(Slashed with SOC 72323) Introduction to medical sociology. Topics include health care professions, patient-provider interaction, caregivers, the illness experience, race, ethnicity, gender, socio-economic status, and health and global health.

**Prerequisite:** Sociology major; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SOC 62326 SOCIOLOGY OF MENTAL HEALTH AND MENTAL ILLNESS 3 Credit Hours**

(Slashed with SOC 72326) Sociological examination of the social processes that affect mental health, frame cultural ideas of normality and illness, and define clinical pathology. Akron 3850: 728.

**Prerequisite:** Sociology major; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SOC 62328 STRATIFICATION AND HEALTH 3 Credit Hours**

(Slashed with SOC 72328) Race, social class and gender differences in physical and mental health status, help-seeking behavior and health care. Race, class and gender stratification of health care workers. Akron 3850:726.

**Prerequisite:** Sociology major; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter



**SOC 62330 COMPARATIVE HEALTH CARE SYSTEMS 3 Credit Hours**  
(Slashed with SOC 72330) Comparative analysis of health care systems across the globe. Covers historical development and political economy of health care systems, variation in delivery and access to care, and variation in health outcomes.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SOC 62332 SOCIAL CONTROL OF MENTAL ILLNESS 3 Credit Hours**  
(Slashed with SOC 72332) Introduction to the sociological perspective regarding social control and mental illness. Topics include the history of mental illness and the asylum, the stratification of mental illness diagnosis and treatment by race, ethnicity, gender, and socio-economic status, and stigma and psychiatric labeling.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SOC 62430 SOCIAL PSYCHOLOGY 3 Credit Hours**

(Slashed with SOC 72430) Examination of social psychological theory and research, both classic and contemporary. Provides student with background and working knowledge of social psychological aspects of social phenomena. Akron 3850: 631.

**Prerequisite:** Sociology major; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SOC 62433 SOCIAL STRUCTURE AND PERSONALITY 3 Credit Hours**

(Slashed with SOC 72433) Examination of contemporary theory and research on linkages between personality and society. Emphasis is on the dynamics of those linkages and their effects on both individuals and social structures. Akron 3850:634.

**Prerequisite:** Sociology major; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SOC 62437 STRUCTURAL SOCIAL PSYCHOLOGY 3 Credit Hours**

(Slashed with SOC 72437) In-depth introduction to structural social psychology, a set of theoretical and methodological approaches and tools that focuses on the development and testing of multi-level, micro-macro accounts of human social interactions, often through the use of formal theorizing and mathematical modeling. Course provides an overview of the theoretical and research empirical methods that are most associated with structural social psychology; cover the main substantive topics in the area; and then conclude with a brief overview of current issues, debates and recent interdisciplinary advances.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SOC 62439 SELF AND IDENTITY 3 Credit Hours**

(Slashed with SOC 72439) Examines theories and research on the origins of and on behavioral and social consequences of identities, self-concept and self-esteem; also examines the relationships between identities and emotions and between self-concept and mental health and well-being.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SOC 62542 SOCIOLOGY OF WORK 3 Credit Hours**

(Slashed with SOC 72542) Examination of work as behavioral phenomenon in human societies; contrasts with nonwork and leisure significance of occupations, professions and work types in organization of work. Akron 3850:649.

**Prerequisite:** Sociology major; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SOC 62546 SOCIAL INEQUALITY 3 Credit Hours**

(Slashed with SOC 62546) An overview of social inequalities, including definitions, causes, identities, structures and consequences. The focus is on social class with attention to intersecting dimensions of inequality. Akron 3850:646.

**Prerequisite:** Sociology major; and Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SOC 62566 SOCIOLOGY OF GENDER 3 Credit Hours**

(Slashed with SOC 72566) Examination of theories and research on gender origins, characteristics and changes. Emphasizes recent empirical research on gender role patterns and processes in various industrial societies. Akron 3850:639.

**Prerequisite:** Graduate standing; and sociology major.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SOC 62760 DEVIANCE 3 Credit Hours**

(Slashed with SOC 72760) Examination of nature, types and controls of deviance; analysis of conceptual levels, theoretical contributions, processes in social labeling and self-labeling, case studies, social consequences and problems. Akron 3850: 663.

**Prerequisite:** Sociology major; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SOC 62870 SOCIOLOGY OF RACE AND ETHNICITY 3 Credit Hours**

(Slashed with SOC 72870) An in-depth study of the theories, models, research approaches and substantive areas that constitute the sociology of race and ethnicity. Akron 3850:651.

**Prerequisite:** Sociology major; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SOC 62872 SOCIAL PSYCHOLOGY AND INEQUALITY 3 Credit Hours**

(Slashed with SOC 72872) Introduces students to sociological social psychological work that examines the reproduction of inequality. Specifically, the course focuses on "generic social processes" in how individuals, through interaction, are complicit or resistant in the reproduction of inequality through processes such as identity work, collective identity work, emotion work, othering and boundary maintenance. Mechanisms for change are also considered.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SOC 62877 SOCIOLOGY OF AGING AND THE LIFE COURSE 3 Credit Hours**

(Slashed with SOC 72877) Study of the sociology of aging and the life course, covering the major stages of young adulthood, mid-life, and later life. Topics include demography of aging, transition to adulthood, educational attainment, romantic relationships and cohabitation, marriage, parenting, work and retirement, theories of aging, aging and social policy, neighborhoods and aging, later life living arrangements, and death and dying.

**Prerequisite:** Sociology major; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SOC 62894 COLLEGE TEACHING OF SOCIOLOGY 3 Credit Hours**

(Repeatable for credit)(Slashed with SOC 72894) Preparation for college teaching. Students may apply a maximum 3 credit hours applicable toward the master's degree with departmental approval. Akron 3850:700.

**Prerequisite:** Graduate standing; and sociology major.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**SOC 62895 SPECIAL TOPICS 3 Credit Hours**

(Repeatable for credit)(Slashed with SOC 72895) Offered irregularly when unusual resources and/or opportunities permit. Topic will be announced when scheduled.

**Prerequisite:** Sociology major; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SOC 62896 INDIVIDUAL INVESTIGATION 1-3 Credit Hours**

(Repeatable for credit)(Slashed with SOC 72896) Intensive pursuit of a subject matter beyond normal course coverage with the possibility of associated research. Students may apply a maximum 6 credit hours combined in individual investigation (SOC 62896, SOC 72896) and research (SOC 62898, SOC 72898) toward the master's degree.

**Prerequisite:** Sociology major; and graduate standing; and special approval.

**Schedule Type:** Individual Investigation

**Contact Hours:** 1-3 other

**Grade Mode:** Satisfactory/Unsatisfactory

**SOC 62898 RESEARCH 1-3 Credit Hours**

(Repeatable for credit)(Slashed with SOC 72898) Pursuit of research interests that can include the student's project and/or a faculty member's project. Student may apply a maximum of 6 credits combined of research (SOC 62898, SOC 72898) and individual investigation (SOC 62896, SOC 72896) toward the master's degree.

**Prerequisite:** Sociology major; and graduate standing; and special approval.

**Schedule Type:** Research

**Contact Hours:** 1-3 other

**Grade Mode:** Satisfactory/Unsatisfactory

**SOC 71003 CRIMINOLOGICAL THEORY 3 Credit Hours**

(Slashed with SOC 61003) Examines the major theories in criminology that have been used to explain criminal behavior. This course includes analysis of empirical tests, applications of the theories, and social policy implications.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SOC 71004 SOCIOLOGY OF CORRECTIONS 3 Credit Hours**

(Slashed with SOC 61004) Analyzes the correctional institution as a social system: formal structure and informal dynamics. It covers problems and programs found in community corrections as well as the institutional setting. It examines approaches to correctional supervision and treatment through probation, parole, and community residential treatment.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SOC 71005 JUVENILE DELINQUENCY 3 Credit Hours**

(Slashed with SOC 61005) Provides an analysis of the issues and current research related to juvenile delinquency and the juvenile justice process.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SOC 72002 PROFESSIONAL AND ETHICAL ISSUES IN SOCIOLOGY 3 Credit Hours**

(Slashed with SOC 62002) Introduction to professional and ethical issues in the field of sociology including the logic of inquiry, developing effective approaches to independent learning and research, the human subjects review process and plagiarism. Akron 3850:628.

**Prerequisite:** Sociology major; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SOC 72093 VARIABLE TITLE WORKSHOP IN SOCIOLOGY 1-6 Credit Hours**

(Repeatable for credit)(Slashed with SOC 62093) Concentrates on professional or disciplinary concerns. Specific content to vary according to needs of client groups.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Workshop

**Contact Hours:** 1-6 other

**Grade Mode:** Satisfactory/Unsatisfactory

**SOC 72100 EARLY SOCIOLOGICAL THEORY 3 Credit Hours**

(Slashed with SOC 62100) An examination of the contributions by pre-1930 social thinkers to contemporary sociological theory. Akron 3850:722.

**Prerequisite:** SOC 52126; and sociology major; and doctoral standing.

**Schedule Type:** Seminar

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**SOC 72105 CONTEMPORARY SOCIOLOGICAL THOUGHT 3 Credit Hours**

(Slashed with SOC 62105) Covers major contemporary theories and theorists. Emphasis on functionalism, conflict, exchange, interactionism and systems theory. Neofunctionalism, neo-Marxism, structuration theory and other recent trends are treated. Akron 3850:723.

**Prerequisite:** SOC 72100; and sociology major; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SOC 72211 QUANTITATIVE METHODS IN SOCIOLOGY 4 Credit Hours**

Introduction to the use of quantitative research methods for analyzing sociological issues. Includes instruction on each step in the process of empirically verifying a theoretical question, from conceptualization to analysis. Akron 3850:603.

**Prerequisite:** Doctoral standing in sociology.

**Schedule Type:** Lecture

**Contact Hours:** 4 lecture

**Grade Mode:** Standard Letter

**SOC 72217 MULTIVARIATE TECHNIQUES IN SOCIOLOGY 4 Credit Hours**

(Slashed with SOC 62217) Advanced multivariate techniques and methodological problems in the analysis of sociological data. Topics include non-experimental causal models and path analysis. Akron 3850:706.

**Prerequisite:** SOC 32220; and sociology major; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 4 lecture

**Grade Mode:** Standard Letter

**SOC 72218 ADVANCED DATA ANALYSIS 4 Credit Hours**

(Slashed with SOC 62218) Crucial examination of data analytic techniques having particular relevance to research problems in sociology, with particular emphasis on multi-variate inferential statistics. Akron 3850:709.

**Prerequisite:** SOC 72217; and sociology major; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 4 lecture

**Grade Mode:** Standard Letter

**SOC 72219 QUALITATIVE METHODS IN SOCIOLOGY 4 Credit Hours**

(Slashed with SOC 62219) Study of qualitative methods including interviewing, observation, use of personal documents, archival data, and special problems of recording and analyzing qualitative data. Akron 3850:714.

**Prerequisite:** Sociology major; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 4 lecture

**Grade Mode:** Standard Letter

**SOC 72220 SURVEY RESEARCH METHODS 3 Credit Hours**

(Slashed with SOC 62220) An in-depth study of the design and administration of social surveys. Akron 3850:711.

**Prerequisite:** Sociology major; and doctoral standing.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**SOC 72221 ADVANCED QUALITATIVE METHODS IN SOCIOLOGY 3 Credit Hours**

(Slashed with SOC 62221) Provides students with the opportunity to conceive, design and carry out their own qualitative research projects. Students also survey readings that are exemplars of high quality and rigorous qualitative research. Topics such as writing, analysis and ethics are covered as students develop and move forward on their own original research. Students must be actively engaged in a qualitative research project to enroll in the course.

**Prerequisite:** SOC 72219; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SOC 72323 SOCIOLOGY OF HEALTH AND ILLNESS 3 Credit Hours**

(Slashed with SOC 62323) Introduction to medical sociology. Topics include health care professions, patient-provider interaction, caregivers, the illness experience, race, ethnicity, gender, socio-economic status and health and global health.

**Prerequisite:** Sociology major; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SOC 72326 SOCIOLOGY OF MENTAL HEALTH AND MENTAL ILLNESS 3 Credit Hours**

(Slashed with SOC 62326) Sociological examination of the social processes that affect mental health, frame cultural ideas of normality and illness, and define clinical pathology. Akron 3850:728.

**Prerequisite:** Sociology major; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SOC 72328 STRATIFICATION AND HEALTH 3 Credit Hours**

(Slashed with SOC 62328) Race, social, class and gender differences in physical and mental health status, help-seeking behavior and health care. Race, class and gender stratification of health care workers. Akron 3850:726.

**Prerequisite:** Sociology major; and doctoral major.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SOC 72330 COMPARATIVE HEALTH CARE SYSTEMS 3 Credit Hours**

(Slashed with SOC 62330) Comparative analysis of health care systems across the globe. Covers historical development and political economy of health care systems, variation in delivery and access to care, and variation in health outcomes.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SOC 72332 SOCIAL CONTROL OF MENTAL ILLNESS 3 Credit Hours**

(Slashed with SOC 62332) Introduction to the sociological perspective regarding social control and mental illness. Topics include the history of mental illness and the asylum, the stratification of mental illness diagnosis and treatment by race, ethnicity, gender, and socio-economic status, and stigma and psychiatric labeling.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SOC 72430 SOCIAL PSYCHOLOGY 3 Credit Hours**

(Slashed with SOC 62430) Examination of social psychological theory and research, both classic and contemporary. Provides student with background and working knowledge of social psychological aspects of social phenomena. Akron 3850:631.

**Prerequisite:** Sociology major; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SOC 72433 SOCIAL STRUCTURE AND PERSONALITY 3 Credit Hours**

(Slashed with SOC 62433) Examination of contemporary theory and research on linkages between personality and society. Emphasis is on the dynamics of those linkages and their effects on both individuals and social structures. Akron 3850:634.

**Prerequisite:** Sociology major; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SOC 72437 STRUCTURAL SOCIAL PSYCHOLOGY 3 Credit Hours**

(Slashed with SOC 62437) In-depth introduction to structural social psychology, a set of theoretical and methodological approaches and tools that focuses on the development and testing of multi-level, micro-macro accounts of human social interactions, often through the use of formal theorizing and mathematical modeling. Course provides an overview of the theoretical and research empirical methods that are most associated with structural social psychology; cover the main substantive topics in the area; and then conclude with a brief overview of current issues, debates and recent interdisciplinary advances.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SOC 72439 SELF AND IDENTITY 3 Credit Hours**

(Slashed with SOC 62439) Examines theories and research on the origins of and on behavioral and social consequences of identities, self-concept and self-esteem; also examines the relationships between identities and emotions and between self-concept and mental health and well-being.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SOC 72542 SOCIOLOGY OF WORK 3 Credit Hours**

(Slashed with SOC 62542) Examination of work as behavioral phenomenon in human societies; contrasts with nonwork and leisure; significance of occupations, professions and work types in organization of work. Akron 3850:649.

**Prerequisite:** Sociology major; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SOC 72546 SOCIAL INEQUALITY 3 Credit Hours**

(Slashed with SOC 62546) An overview of social inequalities, including definitions, causes, identities, structures and consequences. The focus is on social class with attention to intersecting dimensions of inequality. Akron 3850:646.

**Prerequisite:** Sociology major; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SOC 72566 SOCIOLOGY OF GENDER 3 Credit Hours**

(Slashed with SOC 62566) Examination of theories and research on gender origins, characteristics and changes. Emphasizes recent empirical research on gender role patterns and processes in various industrial societies. Akron 3850:639.

**Prerequisite:** Sociology major; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SOC 72760 DEVIANCE 3 Credit Hours**

(Slashed with SOC 62760) Examination of nature, types and controls of deviance; analysis of conceptual levels, theoretical contributions, processes in social labeling and self labeling, case studies, social consequences and problems. Akron 3850:663.

**Prerequisite:** Sociology major; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SOC 72870 SOCIOLOGY OF RACE AND ETHNICITY 3 Credit Hours**

(Slashed with SOC 62870) An in-depth study of the theories, models, research approaches and substantive areas that constitute the sociology of race and ethnicity. Akron 3850:651.

**Prerequisite:** Sociology major; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SOC 72872 SOCIAL PSYCHOLOGY AND INEQUALITY 3 Credit Hours**

(Slashed with SOC 62872) Introduces students to sociological social psychology work that examines the reproduction of inequality. Specifically, the course focuses on "generic social processes" in how individuals, through interaction, are complicit or resistant in the reproduction of inequality through processes such as identity work, collective identity work, emotion work, othering and boundary maintenance. Mechanisms for change are also considered.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SOC 72877 SOCIOLOGY OF AGING AND THE LIFE COURSE 3 Credit Hours**

(Slashed with SOC 62877) Study of the sociology of aging and the life course, covering the major stages of young adulthood, mid-life, and later life. Topics include demography of aging, transition to adulthood, educational attainment, romantic relationships and cohabitation, marriage, parenting, work and retirement, theories of aging, aging and social policy, neighborhoods and aging, later life living arrangements, and death and dying. Akron 3850:678.

**Prerequisite:** Sociology major; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SOC 72894 COLLEGE TEACHING OF SOCIOLOGY 3 Credit Hours**

(Repeatable for credit)(Slashed with SOC 62894) Preparation for college teaching. Course may not be applied toward the doctoral degree. Akron 3850:700.

**Prerequisite:** Sociology major; and graduate standing.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**SOC 72895 SPECIAL TOPICS 3 Credit Hours**

(Repeatable for credit)(Slashed with SOC 62895) Offered irregularly when unusual resources and/or opportunities permit. Topic will be announced when scheduled.

**Prerequisite:** Sociology major; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter



**SOC 72896 INDIVIDUAL INVESTIGATION 1-3 Credit Hours**  
(Repeatable for credit)(Slashed with SOC 62896) Intensive pursuit of a subject matter beyond normal course coverage with the possibility of associated research. Students may apply a maximum 6 credit hours combined in individual investigation (SOC 72896) and research (SOC 72898) toward the doctoral degree.

**Prerequisite:** Sociology major; and doctoral standing; and special approval.

**Schedule Type:** Individual Investigation

**Contact Hours:** 1-3 other

**Grade Mode:** Satisfactory/Unsatisfactory

**SOC 72898 RESEARCH 1-3 Credit Hours**  
(Repeatable for credit)(Slashed with SOC 62898) Pursuit of research interests that can include the student's project and/or a faculty member's project. Student may apply a maximum of 6 credits combined of research (SOC 72898) and individual investigation (SOC 72896) toward the doctoral degree.

**Prerequisite:** Sociology major; and doctoral standing; and special approval.

**Schedule Type:** Research

**Contact Hours:** 1-3 other

**Grade Mode:** Satisfactory/Unsatisfactory

**SOC 82199 DISSERTATION I 15 Credit Hours**  
(Repeatable for credit) Doctoral dissertation, for which registration in at least two semesters is required first of which will be semester in which dissertation is begun and continuing until 30 hours are completed. Akron 3850: 899.

**Prerequisite:** Doctoral standing; and special approval.

**Schedule Type:** Dissertation

**Contact Hours:** 15 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**SOC 82299 DISSERTATION II 15 Credit Hours**  
(Repeatable for credit) Continuing registration required of doctoral students who have completed the initial 30 hours of dissertation and continuing until all degree requirements are met.

**Prerequisite:** Doctoral standing; and special approval.

**Schedule Type:** Dissertation

**Contact Hours:** 15 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

## School of Biomedical Sciences

### Biomedical Sciences (BMS)

**BMS 40196 INDIVIDUAL INVESTIGATION IN BIOMEDICAL SCIENCES (ELR) 1-3 Credit Hours**

(May be repeated for up to 6 credit hours) Research study under the direction of a BMS faculty mentor. Students majoring in biology (BSCI), biotechnology (BTEC), chemistry (CHEM), integrated life sciences (ILS) and physics (PHY) majors are eligible to enroll in this course, but must have 18 credit hours in their major completed.

**Prerequisite:** Minimum overall 2.750 GPA; and departmental and faculty mentor approvals required.

**Schedule Type:** Individual Investigation

**Contact Hours:** 3-9 other

**Grade Mode:** Standard Letter

**Attributes:** Experiential Learning Requirement

**BMS 50701 CLINICAL NEUROANATOMY 3 Credit Hours**  
(Slashed with BMS 70701)(Cross-listed with PSYC 43001, PSYC 53001 and PSYC 73001) Course examines the anatomical organization of the human brain, emphasizing functional aspects of various neural systems, neuroimaging and topics of clinical relevance. Students must have a conceptual understanding of central nervous system organization and memorization of specific neural structures and pathways, as well as knowledge of the impact of structure and systems dysfunction.

**Prerequisite:** Graduate standing and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**BMS 50702 CURRENT TECHNIQUES IN BEHAVIORAL NEUROSCIENCE 3 Credit Hours**

(Slashed with BMS 70702)(Cross-listed with PSYC 43002, PSYC 53002 and PSYC 73002) Course details current and advanced techniques used in behavioral neuroscience research. Emphasis is placed on understanding the theory behind each technique, and its use in understanding the neural mechanisms of behavior. Detailed protocols for each technique are also covered.

**Prerequisite:** Graduate standing and special approval from instructor.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**BMS 50703 NEURAL MECHANISMS OF LEARNING AND MEMORY 3 Credit Hours**

(Slashed with BMS 70703)(Cross-listed with PSYC 43003, PSYC 53003 and PSYC 73003) Course examines the neural and molecular mechanisms underlying learning and memory formation. Covers cellular mechanisms of learning, including long-term potentiation and basic electrophysiology in invertebrate and mammalian preps. Transcriptional and post-translational modifications required for learning and memory formation, genomic signaling and protein synthesis. Also covers structural changes of neurons associated with memory formation, and the different behavioral methods for studying memory.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**BMS 60120 LABORATORY TECHNIQUES IN BIOMEDICAL SCIENCES 2 Credit Hours**

(Repeatable once for credit) Minimum of two laboratory rotations per semester by arrangement with individual faculty members.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Research

**Contact Hours:** 2 other

**Grade Mode:** Satisfactory/Unsatisfactory

**BMS 60196 INDIVIDUAL INVESTIGATION 1-3 Credit Hours**  
(Repeatable for a maximum of 6 credit hours) (Cross-listed with BMS 70196) Directed investigation under supervision of faculty member in biomedical sciences and with prior approval.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Individual Investigation

**Contact Hours:** 1-3 other

**Grade Mode:** Standard Letter-IP



**BMS 60198 RESEARCH 1-15 Credit Hours**

(Repeatable for credit) Research for master's level graduate students. Credits earned may be applied toward degree requirements if department approves.

**Prerequisite:** Graduate standing; and special approval of adviser.

**Schedule Type:** Research

**Contact Hours:** 1-15 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**BMS 60199 THESIS I 2-6 Credit Hours**

Thesis students must register for a minimum of 6 hours, 2 to 6 hours in a single semester distributed over several semesters if desired.

**Prerequisite:** Graduate standing; and special approval of adviser.

**Schedule Type:** Masters Thesis

**Contact Hours:** 2-6 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**BMS 60220 HUMAN MICROSCOPIC ANATOMY 5 Credit Hours**

(Slashed with BMS 70220) Morphological basis for normal and disturbed functions; structure-function relationships in human microscopic anatomy. Lectures, special laboratory and learning techniques using human tissues.

**Prerequisite:** BSCI 50517 or special approval of instructor; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 5 lecture

**Grade Mode:** Standard Letter

**BMS 60251 THEORY AND PRACTICE OF CLONING AND GENETIC ENGINEERING 2 Credit Hours**

(Slashed with BMS 70251) Recent advances in the development and understanding of genetic engineering, genomic DNA organization and gene therapy will be discussed.

**Prerequisite:** BSCI 50158 and CHEM 50247 or BMS 60268; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**BMS 60291 SEMINAR IN CELLULAR AND MOLECULAR BIOLOGY 1 Credit Hour**

(Repeatable for credit) (Cross-listed with BMS 70291) Credits may be applied toward degree if department approves.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Seminar

**Contact Hours:** 1 other

**Grade Mode:** Satisfactory/Unsatisfactory

**BMS 60295 SPECIAL TOPICS IN CELLULAR AND MOLECULAR BIOLOGY 1-5 Credit Hours**

(Repeatable for credit) (Slashed with BMS 70295) Study of subject or problem of current importance. Content dependent upon student requirements and on recent developments in field. Sections may be standard letter or satisfactory/unsatisfactory (S/U) graded.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 1-5 lecture

**Grade Mode:** Standard Letter

**BMS 60299 THESIS II 2 Credit Hours**

Thesis students must continue registration each semester until all degree requirements are met.

**Prerequisite:** 6 hours of BMS 60199; and graduate standing.

**Schedule Type:** Masters Thesis

**Contact Hours:** 2 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**BMS 60440 CELLULAR AND MOLECULAR SIGNALING 3 Credit Hours**

(Cross-listed with BSCI 60440 and BSCI 70440 and BMS 70440)

The relevant and current topics associated with cellular signaling is covered. Topics include receptor pharmacology, classes, and regulation, transcription factors, cell cycle signaling, and cell-cell communication.

**Prerequisite:** BSCI 40143 or BSCI 50143 or BSCI 70143; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**BMS 60441 MEDICAL PHYSIOLOGY 5 Credit Hours**

(Slashed with BMS 70441) Investigation of how the integration of biophysics, biochemistry and structure induces organ function in the cardiovascular, renal, respiratory, endocrine and gastrointestinal systems. Limited discussion of how pathologies alter normal organ function.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 5 lecture

**Grade Mode:** Standard Letter

**BMS 60450 MEDICAL PHYSIOLOGY II 3 Credit Hours**

(Cross-listed with BMS 70450) Biophysical and biochemical concepts of integrative organ system physiology in the human: renal, gastrointestinal and endocrine physiology.

**Prerequisite:** BSCI 40430; and graduate standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**BMS 60462 NEUROBIOLOGY: SYSTEMS AND BEHAVIOR 4 Credit Hours**

(Slashed with BMS 70462; Cross-listed with BSCI 60462 and BSCI 80462). Provides broad coverage of the parts of the central nervous systems and how they integrate sensory information, drive motor function and regulate behavior.

**Prerequisite:** BMS 60729 or BMS 70729; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 4 lecture

**Grade Mode:** Standard Letter

**BMS 60465 MEDICAL NEUROSCIENCE 6 Credit Hours**

(Slashed with BMS 70465) Detailed examination of human neuroanatomy and nervous system function.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 5 lecture, 3 lab

**Grade Mode:** Standard Letter

**BMS 60491 SEMINAR IN MEDICAL PHYSIOLOGY 1 Credit Hour**

(Repeatable for credit) (Cross-listed with BMS 70491) Credits may be applied toward degree if department approves.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Seminar

**Contact Hours:** 1 other

**Grade Mode:** Satisfactory/Unsatisfactory

**BMS 60495 SPECIAL TOPICS IN PHYSIOLOGY 1-5 Credit Hours**

(Repeatable for credit) (Slashed with BMS 70495) Study of subject or problem of current importance. Content dependent upon student requirements and on recent developments in field. Sections may be standard letter or satisfactory/unsatisfactory (S/U) graded.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 1-5 lecture

**Grade Mode:** Standard Letter

**BMS 60501 INTRODUCTION TO PHARMACOLOGY 1 Credit Hour**

(Slashed with BMS 70501) Satisfactory/Unsatisfactory (S/U) graded.

Basic aspects of pharmacology. Intended to provide a general understanding of fundamental concepts in pharmacology and opportunities for students to read and present peer-reviewed manuscripts covering introductory pharmacological concepts.

**Prerequisite:** Graduate standing.

**Schedule Type:** Seminar

**Contact Hours:** 1 other

**Grade Mode:** Satisfactory/Unsatisfactory

**BMS 60502 MOLECULAR PHARMACOLOGY 4 Credit Hours**

(Slashed with BMS 70502) General principles of pharmacology including metabolism, action, interactions, side effects, toxicity and therapeutic use of select drug topics. Focus is placed on the molecular and cellular targets of drug action.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 4 lecture

**Grade Mode:** Standard Letter

**BMS 60503 PHARMACOLOGY JOURNAL REVIEW 1 Credit Hour**

(Repeatable maximum four times) (Slashed with BMS 70503)

Satisfactory/Unsatisfactory (S/U) graded. Review and discussion of advanced pharmacology journal articles. Students will present and critique articles from peer-viewed publications and actively participate in discussions. Background in physiology and biochemistry required.

**Prerequisite:** Graduate standing.

**Schedule Type:** Seminar

**Contact Hours:** 1 other

**Grade Mode:** Satisfactory/Unsatisfactory

**BMS 60504 CHEMOTHERAPY AND TOXICOLOGY 2 Credit Hours**

(Slashed with BMS 70504) Specialized topics in chemotherapy of microbial and neoplastic diseases as well as principles of toxicology.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**BMS 60505 DRUG DISCOVERY AND CLINICAL PHARMACOLOGY 2 Credit Hours**

(Slashed with BMS 70505) Basic concepts underlying drug discovery and clinical pharmacology including principles of pharmacokinetics, metabolism, pharmacogenomics and drug design.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**BMS 60506 HERBALS AND SUPPLEMENTS 2 Credit Hours**

(Slashed with BMS 70506) Provides an understanding of the basic scientific, therapeutic and pharmacological principles underlying the use of medicinal plants, herbal medications, natural products, vitamins, minerals and supplements.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**BMS 60550 MEDICAL PHARMACOLOGY I 3 Credit Hours**

(Cross-listed with BMS 70550) General principles of pharmacology including metabolism, action, interactions, side effects, toxicity and therapeutic use of drugs.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**BMS 60551 MEDICAL PHARMACOLOGY II 3 Credit Hours**

(Slashed with BMS 70551) Continuation of BMS 60550.

**Prerequisite:** BMS 60550; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**BMS 60591 SEMINAR IN PHARMACOLOGY 1 Credit Hour**

(Repeatable for credit) (Cross-listed with BMS 70591) Credits may be applied toward degree if department approves. Repeated registration permitted.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Seminar

**Contact Hours:** 1 other

**Grade Mode:** Satisfactory/Unsatisfactory

**BMS 60595 SPECIAL TOPICS IN PHARMACOLOGY 1-5 Credit Hours**

(Repeatable for credit) (Slashed with BMS 70595) Study of subject or problem of current importance. Content dependent upon student requirements and on recent developments in field. Sections may be standard letter or satisfactory/unsatisfactory (S/U) graded.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 1-5 lecture

**Grade Mode:** Standard Letter

**BMS 60596 INDIVIDUAL INVESTIGATION IN PHARMACOLOGY 1-3 Credit Hours**

(Repeatable for credit) (Cross-listed with BMS 70596) Experience with various laboratory techniques and procedures used in pharmacological research with application to experimental designs.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Individual Investigation

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter-IP

**BMS 60729 CELLULAR AND MOLECULAR NEUROSCIENCE 4 Credit Hours**

(Slashed with BMS 70729) The relation of aspects of the neurosciences to the fundamental properties of nervous tissue, establishing a firm base in experimental neurobiology.

**Prerequisite:** Graduate standing; and special approval of instructor.

**Schedule Type:** Lecture

**Contact Hours:** 4 lecture

**Grade Mode:** Standard Letter

**BMS 60751 CURRENT RESEARCH IN AUDITORY NEUROBIOLOGY 1 Credit Hour**

(Slashed with BMS 70751) (Repeatable for a maximum of four credit hours) Presentation-based by faculty in the Auditory Neuroscience Group. Topics will vary each semester. Each class presentation will highlight recent advances in auditory neurobiology, cover relevant background, and involve discussion of methodology, experimental design, and interpretive issues related to the research. Students will prepare a presentation on a topic chosen in conjunction with one of the faculty members. Assessment is based on presentation quality and active participation throughout the semester.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Seminar

**Contact Hours:** 1 lecture

**Grade Mode:** Satisfactory/Unsatisfactory

**BMS 60791 SEMINAR IN NEUROBIOLOGY 1 Credit Hour**

(Repeatable for credit) (Cross-listed with BMS 70791) Credits may be applied toward degree if department approves.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Seminar

**Contact Hours:** 1 other

**Grade Mode:** Satisfactory/Unsatisfactory

**BMS 60795 SPECIAL TOPICS IN NEUROBIOLOGY 1-5 Credit Hours**

(Repeatable for credit) (Slashed with BMS 70795) Study of problems of current importance. Content dependent on student requirements and on developments in field. Sections may be standard letter or satisfactory/unsatisfactory (S/U) graded.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 1-5 lecture

**Grade Mode:** Standard Letter

**BMS 61000 RESPONSIBLE CONDUCT OF RESEARCH 1 Credit Hour**

(Slashed with BMS 71000; Cross-listed with PHIL 61000) Introduction to professional and ethical conduct of research. Topics include codes and laws governing research, identification of scientific misconduct, plagiarism, authorship and intellectual properties, ethical animal and human research.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 1 lecture

**Grade Mode:** Standard Letter

**BMS 61001 INTRODUCTION TO BIOMEDICAL SCIENCES 1 Credit Hour**

(Slashed with BMS 71001) Seminar for all students in Biomedical Sciences. Repeat registration permitted.

**Prerequisite:** Graduate Standing in the School of Biomedical Sciences; Biological Anthropology, Biomedical mathematics, Cellular and Molecular Biology, Neurosciences, Pharmacology, Physiology Interdisciplinary.

**Schedule Type:** Seminar

**Contact Hours:** 1 lecture

**Grade Mode:** Satisfactory/Unsatisfactory

**BMS 68610 HUMAN GROSS ANATOMY I 4 Credit Hours**

(Cross-listed with BMS 78610) An intensive survey of human macromorphology. Lecture two hours per week. Laboratory six hours per week.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 4 lecture

**Grade Mode:** Standard Letter

**BMS 68611 HUMAN GROSS ANATOMY II 3 Credit Hours**

(Slashed with BMS 78611) An intensive survey of human macromorphology; a 10 week course which continues BMS 6/78610. Lecture two hours per week. Laboratory six hours per week.

**Prerequisite:** BMS 68610; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**BMS 70120 LABORATORY TECHNIQUES IN BIOMEDICAL SCIENCES 2 Credit Hours**

(Repeatable once for credit) (Cross-listed with BMS 60120) Minimum of two laboratory rotations per semester by arrangement with individual faculty members. May be repeated once.

**Prerequisite:** Doctoral standing; and special approval.

**Schedule Type:** Research

**Contact Hours:** 2 other

**Grade Mode:** Satisfactory/Unsatisfactory

**BMS 70196 INDIVIDUAL INVESTIGATION 1-3 Credit Hours**

(Repeatable for credit) (Cross-listed with BMS 60196) Directed investigation under supervision of faculty member in biomedical sciences and with prior approval.

**Prerequisite:** Doctoral standing; and special approval.

**Schedule Type:** Individual Investigation

**Contact Hours:** 1-3 other

**Grade Mode:** Standard Letter-IP

**BMS 70220 HUMAN MICROSCOPIC ANATOMY 5 Credit Hours**

(Slashed with BMS 60220) Morphological basis for normal and disturbed functions; structure-function relationships in human microscopic anatomy. Lectures, special laboratory and learning techniques using human tissues.

**Prerequisite:** BSCI 50517 or special approval of instructor; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 5 lecture

**Grade Mode:** Standard Letter

**BMS 70251 THEORY AND PRACTICE OF CLONING AND GENETIC ENGINEERING 2 Credit Hours**

(Slashed with BMS 60251) Recent advances in the development and understanding of genetic engineering, genomic DNA organization and gene therapy will be discussed.

**Prerequisite:** BSCI 50158 and CHEM 50247 or BMS 60268; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**BMS 70291 SEMINAR IN CELLULAR AND MOLECULAR BIOLOGY 1 Credit Hour**

(Repeatable for credit) (Cross-listed with BMS 60291) Credits may be applied toward degree if department approves.

**Prerequisite:** Doctoral standing; and special approval.

**Schedule Type:** Seminar

**Contact Hours:** 1 other

**Grade Mode:** Satisfactory/Unsatisfactory

**BMS 70295 SPECIAL TOPICS IN CELLULAR AND MOLECULAR BIOLOGY 1-5 Credit Hours**

(Repeatable maximum ten times for credit) (Slashed with BMS 60295) Study of subject or problem of current importance. Content dependent upon student requirements and on recent developments in field.

**Prerequisite:** Doctoral standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 1-5 lecture

**Grade Mode:** Standard Letter

**BMS 70440 CELLULAR AND MOLECULAR SIGNALING 3 Credit Hours**

(Cross-listed with BSCI 60440 and BSCI 70440 and BMS 60440) The relevant and current topics associated with cellular signaling will be covered. Topics include receptor pharmacology, classes and regulation, transcription factors, cell cycle signaling and cell-cell communication.

**Prerequisite:** BSCI 40143 or BSCI 50143 or BSCI 70143; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**BMS 70441 MEDICAL PHYSIOLOGY 5 Credit Hours**

(Slashed with BMS 60441) Investigation of how the integration of biophysics, biochemistry and structure induces organ function in the cardiovascular, renal, respiratory, endocrine and gastrointestinal systems. Limited discussion of how pathologies alter normal organ function.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 5 lecture

**Grade Mode:** Standard Letter

**BMS 70450 MEDICAL PHYSIOLOGY II 3 Credit Hours**

(Cross-listed with BMS 60450) Biophysical and biochemical concepts of integrative organ system physiology in the human: renal, gastrointestinal and endocrine physiology.

**Prerequisite:** BSCI 40430; and one year college physics and college chemistry (including organic); and doctoral standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**BMS 70462 NEUROBIOLOGY: SYSTEMS AND BEHAVIOR 4 Credit Hours**

(Slashed with BMS 60462; Cross-listed with BSCI 60462 and BSCI 80462) Provides broad coverage of the parts of the central nervous systems and how they integrate sensory information, drive motor function and regulate behavior.

**Prerequisite:** BMS 60729 or BMS 70729; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 4 lecture

**Grade Mode:** Standard Letter

**BMS 70465 MEDICAL NEUROSCIENCE 6 Credit Hours**

(Slashed with BMS 60465) Detailed examination of human neuroanatomy and nervous system function.

**Prerequisite:** Doctoral standing; and special approval.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 5 lecture, 3 lab

**Grade Mode:** Standard Letter

**BMS 70491 SEMINAR IN MEDICAL PHYSIOLOGY 1 Credit Hour**

(Repeatable for credit) (Cross-listed with BMS 60491) Credits may be applied toward degree if department approves.

**Prerequisite:** Doctoral standing; and special approval.

**Schedule Type:** Seminar

**Contact Hours:** 1 other

**Grade Mode:** Satisfactory/Unsatisfactory

**BMS 70495 SPECIAL TOPICS IN PHYSIOLOGY 1-5 Credit Hours**

(Repeatable for credit) (Slashed with BMS 60495) Study of subject or problem of current importance. Content dependent upon student requirements and on recent developments in field. Sections may be standard letter or satisfactory/unsatisfactory (S/U) graded.

**Prerequisite:** Doctoral standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 1-5 lecture

**Grade Mode:** Standard Letter

**BMS 70501 INTRODUCTION TO PHARMACOLOGY 1 Credit Hour**

(Slashed with BMS 60501) Satisfactory/Unsatisfactory (S/U) graded.

Basic aspects of pharmacology. Intended to provide a general understanding of fundamental concepts in pharmacology and opportunities for students to read and present peer-reviewed manuscripts covering introductory pharmacological concepts.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Seminar

**Contact Hours:** 1 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**BMS 70502 MOLECULAR PHARMACOLOGY 4 Credit Hours**

(Slashed with BMS 60502) General principles of pharmacology including metabolism, action, interactions, side effects, toxicity and therapeutic use of select drug topics. Focus is placed on the molecular and cellular targets of drug action.

**Prerequisite:** Doctoral standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 4 lecture

**Grade Mode:** Standard Letter

**BMS 70503 PHARMACOLOGY JOURNAL REVIEW 1 Credit Hour**

(Repeatable maximum four times) (Slashed with BMS 60503) Review and discussion of advanced pharmacology journal articles. Students will present and critique articles from peer-viewed publications and actively participate in discussions. Background in physiology and biochemistry required. Satisfactory/Unsatisfactory (S/U) graded.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Seminar

**Contact Hours:** 1 other

**Grade Mode:** Satisfactory/Unsatisfactory

**BMS 70504 CHEMOTHERAPY AND TOXICOLOGY 2 Credit Hours**

(Slashed with BMS 60504) Specialized topics in chemotherapy of microbial and neoplastic diseases as well as principles of toxicology.

**Prerequisite:** Doctoral standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter



**BMS 70505 DRUG DISCOVERY AND CLINICAL PHARMACOLOGY 2 Credit Hours**

(Slashed with BMS 60505) Basic concepts underlying drug discovery and clinical pharmacology including principles of pharmacokinetics, metabolism, pharmacogenomics and drug design.

**Prerequisite:** Doctoral standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**BMS 70506 HERBALS AND SUPPLEMENTS 2 Credit Hours**

(Slashed with BMS 60506) Provides an understanding of the basic scientific, therapeutic and pharmacological principles underlying the use of medicinal plants, herbal medications, natural products, vitamins, minerals and supplements.

**Prerequisite:** Doctoral standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**BMS 70550 MEDICAL PHARMACOLOGY I 3 Credit Hours**

(Cross-listed with BMS 60550) General principles of pharmacology including metabolism, action, interactions, side effects, toxicity and therapeutic use of drugs.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**BMS 70551 MEDICAL PHARMACOLOGY II 3 Credit Hours**

(Slashed with BMS 60551) Continuation of BMS 70550.

**Prerequisite:** BMS 70550; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**BMS 70591 SEMINAR IN PHARMACOLOGY 1 Credit Hour**

(Repeatable for credit) (Cross-listed with BMS 60591) Credits may be applied toward degree if department approves.

**Prerequisite:** Doctoral standing; and special approval.

**Schedule Type:** Seminar

**Contact Hours:** 1 other

**Grade Mode:** Satisfactory/Unsatisfactory

**BMS 70595 SPECIAL TOPICS IN PHARMACOLOGY 1-5 Credit Hours**

(Repeatable for credit) (Slashed with BMS 60595) Study of subject or problem of current importance. Content dependent upon student requirements and on recent developments in field. Sections may be standard letter or satisfactory/unsatisfactory (S/U) graded.

**Prerequisite:** Doctoral standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 1-5 lecture

**Grade Mode:** Standard Letter

**BMS 70596 INDIVIDUAL INVESTIGATION IN PHARMACOLOGY 1-3 Credit Hours**

(Repeatable for credit) (Cross-listed with BMS 60596) Experience with various laboratory techniques and procedures used in pharmacological research with application to experimental designs.

**Prerequisite:** Doctoral standing; and special approval.

**Schedule Type:** Individual Investigation

**Contact Hours:** 1-3 other

**Grade Mode:** Standard Letter-IP

**BMS 70701 CLINICAL NEUROANATOMY 3 Credit Hours**

(Slashed with BMS 50701)(Cross-listed with PSYC 43001, PSYC 53001 and PSYC 73001). Course examines the anatomical organization of the human brain, emphasizing functional aspects of various neural systems, neuroimaging and topics of clinical relevance. Students must have a conceptual understanding of central nervous system organization and memorization of specific neural structures and pathways, as well as knowledge of the impact of structure and systems dysfunction.

**Prerequisite:** Doctoral standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**BMS 70702 CURRENT TECHNIQUES IN BEHAVIORAL NEUROSCIENCE 3 Credit Hours**

(Slashed with BMS 50702)(Cross-listed with PSYC 43002, PSYC 53002 and PSYC 73002) Course details current and advanced techniques used in behavioral neuroscience research. Emphasis is placed on understanding the theory behind each technique, and its use in understanding the neural mechanisms of behavior. Detailed protocols for each technique are also covered.

**Prerequisite:** Doctoral standing and special approval from instructor.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**BMS 70703 NEURAL MECHANISMS OF LEARNING AND MEMORY 3 Credit Hours**

(Slashed with BMS 50703)(Cross-listed with PSYC 43003, PSYC 53003 and PSYC 73003) Course examines the neural and molecular mechanisms underlying learning and memory formation. Covers cellular mechanisms of learning, including long-term potentiation and basic electrophysiology in invertebrate and mammalian preps. Transcriptional and post-translational modifications required for learning and memory formation, genomic signaling and protein synthesis. Also covers structural changes of neurons associated with memory formation, and the different behavioral methods for studying memory.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**BMS 70729 CELLULAR AND MOLECULAR NEUROSCIENCE 4 Credit Hours**

(Slashed with BMS 60729) The relation of aspects of the neurosciences to the fundamental properties of nervous tissue, establishing a firm base in experimental neurobiology.

**Prerequisite:** Doctoral standing; and special approval of instructor.

**Schedule Type:** Lecture

**Contact Hours:** 4 lecture

**Grade Mode:** Standard Letter



**BMS 70751 CURRENT RESEARCH IN AUDITORY NEUROBIOLOGY 1 Credit Hour**

(Slashed with BMS 60751) (Repeatable for a maximum of four credit hours) Presentation-based by faculty in the Auditory Neuroscience Group. Topics will vary each semester. Each class presentation will highlight recent advances in auditory neurobiology, cover relevant background, and involve discussion of methodology, experimental design, and interpretive issues related to the research. Students will prepare a presentation on a topic chosen in conjunction with one of the faculty members. Assessment is based on presentation quality and active participation throughout the semester.

**Prerequisite:** Doctoral standing; and special approval.

**Schedule Type:** Seminar

**Contact Hours:** 1 lecture

**Grade Mode:** Satisfactory/Unsatisfactory

**BMS 70791 SEMINAR IN NEUROBIOLOGY 1 Credit Hour**

(Repeatable for credit) (Cross-listed with BMS 60791) Credits may be applied toward degree if department approves.

**Prerequisite:** Doctoral standing; and special approval.

**Schedule Type:** Seminar

**Contact Hours:** 1 other

**Grade Mode:** Satisfactory/Unsatisfactory

**BMS 70795 SPECIAL TOPICS IN NEUROBIOLOGY 1-5 Credit Hours**

(Repeatable for credit) (Slashed with BMS 60795) Study of problems of current importance. Content dependent on student requirements and on developments in field. Sections may be standard letter or satisfactory/unsatisfactory (S/U) graded

**Prerequisite:** Doctoral standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 1-5 lecture

**Grade Mode:** Standard Letter

**BMS 71000 RESPONSIBLE CONDUCT OF RESEARCH 1 Credit Hour**

(Slashed with BMS 61000; Cross-listed with PHIL 61000) Introduction to professional and ethical conduct of research. Topics include codes and laws governing research, identification of scientific misconduct, plagiarism, authorship and intellectual properties, ethical animal and human research.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 1 lecture

**Grade Mode:** Standard Letter

**BMS 71001 INTRODUCTION TO BIOMEDICAL SCIENCES 1 Credit Hour**

(Slashed with BMS 61001) Introductory seminar for new students in Biomedical Sciences graduate programs. This seminar will expose students to the different faculty research programs available in the program.

**Prerequisite:** Doctoral standing in Biomedical Sciences.

**Schedule Type:** Seminar

**Contact Hours:** 1 lecture

**Grade Mode:** Satisfactory/Unsatisfactory

**BMS 78610 HUMAN GROSS ANATOMY I 4 Credit Hours**

(Cross-listed with BMS 68610) An intensive survey of human macromorphology. Lecture two hours per week. Laboratory six hours per week.

**Prerequisite:** Doctoral standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 4 lecture

**Grade Mode:** Standard Letter

**BMS 78611 HUMAN GROSS ANATOMY II 3 Credit Hours**

(Cross-listed with BMS 68611) An intensive survey of human macromorphology; a 10 week course which continues BMS 6/78610. Lecture two hours per week. Laboratory six hours per week.

**Prerequisite:** BMS 6/78610; and Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**BMS 78630 PRINCIPLES OF BIOLOGICAL ANTHROPOLOGY 3 Credit Hours**

(Slashed with ANTH 68630) Graduate-level introduction to the field of biological anthropology. Topics include genetics, human variation, fossil and modern primates and early man.

**Prerequisite:** Doctoral standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**BMS 78637 BIOANTHROPOLOGICAL DATA ANALYSIS I 5 Credit Hours**

(Cross-listed with ANTH 68637) Examination of methods of univariate and bivariate experimental design. This survey emphasizes tests of hypothesis and estimation techniques with both classical and nonparametric procedures.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 5 lecture

**Grade Mode:** Standard Letter

**BMS 78638 BIOANTHROPOLOGICAL DATA ANALYSIS II 3 Credit Hours**

(Cross-listed with ANTH 68638) This survey of multivariate analysis in anthropology includes one-sample data exploration, multiple sample problems and regression methods. It also includes computer applications.

**Prerequisite:** BMS 78637; and Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**BMS 78691 SEMINAR IN BIOLOGICAL ANTHROPOLOGY 1 Credit Hour**

(Repeatable for credit) Credits may be applied toward degree if department approves.

**Prerequisite:** Doctoral standing; and special approval.

**Schedule Type:** Seminar

**Contact Hours:** 1 other

**Grade Mode:** Satisfactory/Unsatisfactory

**BMS 78692 FIELD WORK IN PALEOANTHROPOLOGY 1-5 Credit Hours**

(Repeatable for credit) Excavation and/or field survey of miocene and/or plio-pleistocene hominid localities.

**Prerequisite:** Doctoral standing; and special approval.

**Schedule Type:** Field Experience

**Contact Hours:** 1-5 other

**Grade Mode:** Standard Letter

**BMS 78695 SPECIAL TOPICS IN BIOLOGICAL ANTHROPOLOGY 1-5 Credit Hours**

(Repeatable for credit) Study of subject or problem of current importance. Content dependent upon student requirements and on recent developments in field. Sections may be standard letter or satisfactory/unsatisfactory (S/U) graded.

**Prerequisite:** Doctoral standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 1-5 lecture

**Grade Mode:** Standard Letter

**BMS 80198 RESEARCH 1-15 Credit Hours**

(Repeatable for credit) Research for doctoral students who have not yet passed candidacy examination.

**Prerequisite:** Doctoral standing; and special approval of adviser.

**Schedule Type:** Research

**Contact Hours:** 1-15 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**BMS 80199 DISSERTATION I 15 Credit Hours**

(Repeatable for credit) Doctoral dissertation, for which registration in at least two semesters is required, first of which will be semester in which dissertation work is begun and continuing until the completion of 30 hours. Students must successfully complete the doctoral exam before taking this course.

**Prerequisite:** Doctoral standing; and special approval.

**Schedule Type:** Dissertation

**Contact Hours:** 15 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**BMS 80299 DISSERTATION II 15 Credit Hours**

(Repeatable for credit) Continuing registration of doctoral students who have completed the initial 30 hours of dissertation and continuing until all degree requirements are met.

**Prerequisite:** 30 hours of BMS 80199; and Doctoral standing.

**Schedule Type:** Dissertation

**Contact Hours:** 15 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

## School of Peace and Conflict Studies

### Peace and Conflict Studies (PACS)

**PACS 11001 INTRODUCTION TO CONFLICT MANAGEMENT (DIVD) (KSS) 3 Credit Hours**

Introduces key elements of conflict management theory and peacebuilding practice such as conflict styles, active listening, assertion, collaborative problem solving, principled negotiation, mediation and nonviolent conflict intervention. These are essential "life skills" useful in personal, social and professional contexts. Includes conflict communication skills development and practice.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Diversity Domestic, Kent Core Social Sciences, Transfer Module Social Sciences

**PACS 30000 MAY 4 1970 AND ITS AFTERMATH 3 Credit Hours**

(Cross-listed with POL 30000) Study of the events of the 1960s in the US leading up to May 4, 1970 when the Ohio National Guard killed and wounded KSU students protesting the US war in Vietnam and Cambodia. Topics are considered within their cultural, historical, social and political contexts. Also examines the aftermath of May 4th, including the controversy over constructing the Gym Annex on the May 4th site, the legal trials, the role of commemorations and memorials and the politics of remembering May 4, 1970.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PACS 31002 GENDER, POWER AND CONFLICT 3 Credit Hours**

Examines gender roles and power imbalances in interpersonal relationships, group settings, and on the structural level and the various manifestations of violence that may result, considering some of the ways in which these imbalances are developed, maintained and constructively addressed and potentially redressed.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PACS 31003 NONVIOLENCE: THEORY AND PRACTICE 3 Credit Hours**

Social conflicts can be intensified and waged in a constructive manner through nonviolent action. Examines how nonviolent action methods bring about social and political change. Explores the theory and philosophy underlying strategies of nonviolent action. Utilizes a wide variety of historical and contemporary case examples of nonviolent struggles from across the globe.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PACS 31010 CONFLICT THEORY 3 Credit Hours**

Explores the theoretical foundations of conflict and conflict management to provide a greater understanding of the nature, sources and dynamics of various types of conflict, the special challenges faced in addressing those conflicts, and the theory underlying various approaches to conflict management and resolution.

**Prerequisite:** PACS 11001.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PACS 32020 STRATEGIC PLANNING 3 Credit Hours**

Provides training in the principles and tactics of strategic planning for individuals, organizations, agencies and institutions. Students learn to apply the principles of conflict management to strategic planning, including assessing the current environment, developing goals and objectives and establishing a timeline for acting on a strategic plan.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PACS 32030 INTERNATIONAL CONFLICT RESOLUTION (DIVG) 3 Credit Hours**

Examines causes, expressions and consequences of international conflicts, exploring mechanisms of their prevention, management and resolution. Includes the appearance and development of these conflicts and early warning, negotiation, and peacekeeping and peacebuilding. Covers international and civil wars and topics such as international terrorism.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Diversity Global

**PACS 32040 CROSS-CULTURAL CONFLICT MANAGEMENT (DIVG) 3 Credit Hours**

Examines cultural components of conflicts in diverse, multi-cultural settings with special emphases on the nature and sources of cross-cultural conflicts, conflict escalation and de-escalation, and the roles of power disparities. Students examine their own cultural assumptions in order to better understand the multiple effects that cultural dynamics have in conflicts. Case analyses will include conflict resolution techniques respectful of the cultural values of the parties in conflict.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Diversity Global

**PACS 33030 CONFLICT IN THE WORKPLACE 3 Credit Hours**

Explores the causes, impact and dynamics of conflict in the workplace. Issues explored include personality conflict, incivility, ethics, teams, management style, diversity, legal issues, alternative dispute resolution, union environments and workplace violence.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PACS 34010 CAREER PATHWAYS IN PEACE AND CONFLICT STUDIES 3 Credit Hours**

So what does one do with a major or minor in peace and conflict studies? How does one find a job or internship in the field? This course encourages students to explore and critically examine how the skills and knowledge learned in Peace and Conflict Studies courses can be utilized and applied in real-world settings. Students will interact with alumni and professionals working in a variety of careers that utilize conflict management and related skills. They will learn how to do professional networking, create a career plan, develop job search strategies, and learn how to market their skills and knowledge. Students will complete the course with a career plan, a detailed identification and exploration of options, or another career-related project.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PACS 35050 ENVIRONMENTAL CONFLICT RESOLUTION 3 Credit Hours**

(Cross-listed with POL 30350) Examines alternative dispute resolution principles applicable to complex, multi-party public sector disputes, especially environmental and land use disputes. Students learn about deliberative democracy, a variety of circle processes, consensus decision-making, collaborative problem-solving, digital dialogue processes, and town hall meeting structures among others. Case studies of environmental conflicts and multi-party mediation simulations are used.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PACS 35092 INTERNSHIP IN PEACE AND CONFLICT STUDIES (ELR) 1-9 Credit Hours**

(Repeatable for a total of 12 hours). Students work as interns with an organization, group, or business, utilizing and enhancing their skills in conflict management and applied peace studies. Three hours of internship is required for the Applied Peace and Conflict Studies major and is an elective for the Applied Peace and Conflict Studies minor.

**Prerequisite:** Completion of two upper-division PACS courses; and junior standing and; special approval.

**Schedule Type:** Practical Experience

**Contact Hours:** 3-27 other

**Grade Mode:** Standard Letter-IP

**Attributes:** Experiential Learning Requirement

**PACS 35095 SPECIAL TOPICS IN PEACE AND CONFLICT STUDIES 3 Credit Hours**

(Repeatable for credit) Designed to provide an in-depth examination of topics and issues of interest to faculty and students. Specific topics are announced in the Schedule of Classes and on the School of Peace and Conflict Studies web site.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PACS 36096 INDIVIDUAL INVESTIGATION IN PEACE AND CONFLICT STUDIES 3 Credit Hours**

(Repeatable for credit) Individualized program of study and literature review in area of particular interest to the student.

**Prerequisite:** Two upper-division PACS courses; and junior standing; and special approval.

**Schedule Type:** Individual Investigation

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter-IP

**PACS 41010 RECONCILIATION VERSUS REVENGE: TRANSITIONAL JUSTICE (DIVG) (WIC) 3 Credit Hours**

'Transitional justice' refers to civil and political processes used to move from violence and tyranny to peace and democracy. War crimes tribunals, truth and reconciliation commissions, apologies, forgiveness, reparations and memorials will be examined.

**Prerequisite:** PACS 32030; and 1 upper-division PACS course; and junior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Diversity Global, Writing Intensive Course

**PACS 42020 QUALITATIVE RESEARCH IN PEACE AND CONFLICT STUDIES (WIC) 3 Credit Hours**

An overview of qualitative research methods used to gather and analyze data in peace and conflict studies. Gives students experience in collecting and analyzing data and writing a major research paper.

**Prerequisite:** PACS 11001; and two upper-division PACS courses; and junior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Writing Intensive Course

**PACS 44040 NEGOTIATION 3 Credit Hours**

(Slashed with PACS 54040) Effective negotiation skills are essential for success in both our professional and personal lives. This course explores in an engaging and interactive way negotiation theories, strategies and techniques. Students will enhance their negotiation skills by learning to plan for an effective negotiation, to elicit information effectively, to build relationships, to improve their communication and persuasive abilities and to deal with a variety of situations and circumstances. There will be several opportunities to practice negotiation skills in class, to experiment with different approaches, and to develop the skills and confidence to be able to negotiate effectively and constructively.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PACS 45093 VARIABLE TOPIC WORKSHOP IN PEACE AND CONFLICT STUDIES 1-6 Credit Hours**

(Repeatable for a total of 6 credit hours) Variable topic offered as need arises. Specific topics will be announced in the Schedule of Classes and on the School of Peace and Conflict Studies website.

**Prerequisite:** Special approval.

**Schedule Type:** Workshop

**Contact Hours:** 1-6 other

**Grade Mode:** Satisfactory/Unsatisfactory

**PACS 48080 MEDIATION: THEORY AND TRAINING 3 Credit Hours**

(Slashed with PACS 58080) Provides training in mediation skills, principles and methods in an interactive way. Students examine the historical development of mediation and the uses of mediation in various contexts including family, business, labor-management, civil, community, and workplace disputes.

**Prerequisite:** PACS 11001.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PACS 49091 VARIABLE TITLE SEMINAR IN PEACE AND CONFLICT STUDIES 1-3 Credit Hours**

(Repeatable for a total of 3 credit hours) Seminar devoted to detailed study of various topics in the field of peace and conflict studies. Specific topics are announced in Schedule of Classes and on the School of Peace and Conflict Studies website.

**Prerequisite:** Junior standing.

**Schedule Type:** Seminar

**Contact Hours:** 1-3 other

**Grade Mode:** Standard Letter

**PACS 54040 NEGOTIATION 3 Credit Hours**

(Slashed with PACS 44040) Effective negotiation skills are essential for success in both our professional and personal lives. This course explores in an engaging and interactive way negotiation theories, strategies and techniques. Students will enhance their negotiation skills by learning to plan for an effective negotiation, to elicit information effectively, to build relationships, to improve their communication and persuasive abilities and to deal with a variety of situations and circumstances. There will be several opportunities to practice negotiation skills in class, to experiment with different approaches, and to develop the skills and confidence to be able to negotiate effectively and constructively.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PACS 58080 MEDIATION: THEORY AND TRAINING 3 Credit Hours**

(Slashed with PACS 48080) Provides training in mediation skills, principles and methods through cooperative, participatory, interactive, skills-building pedagogies. Students examine the historical development of mediation and the uses of mediation in various contexts including family, business, labor-management, civil, community, and workplace disputes.

**Prerequisite:** Graduate Standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

## Center for Comparative and Integrative Programs

### College of Arts and Sciences

Center for Comparative and Integrative Programs

105 Bowman Hall

Kent Campus

330-672-2062

[www.kent.edu/ccip](http://www.kent.edu/ccip)

## Undergraduate Programs

- Integrative Studies - B.I.S.
- Paralegal Studies - B.A.

## Minors

- Ancient, Medieval and Renaissance Studies
- History and Philosophy of Science
- Jewish Studies
- Latin American Studies
- Paralegal Studies
- Religion Studies
- Studies in Globalization, Identity and Space
- World Literature and Cultures

## Undergraduate Non-Degree Programs

- Pre-Law Advising Program

## Graduate Programs

- Liberal Studies - L.S.M.

## Certificates

### Undergraduate Certificates

- Paralegal Studies

## Center for Comparative and Integrative Programs Faculty

- Kessler, Chaya (2009), Associate Lecturer, M.A., Youngstown State University, 2005
- Paar Conroy, Amanda M. (2013), Associate Professor, J.D., Cleveland State University, 2005
- Peterson, Mary S. (2016), Assistant Professor, J.D., Bowling Green State University, 1987

## Arts and Sciences (AS)

### AS 10095 SPECIAL TOPICS 1-5 Credit Hours

(Repeatable for credit) This program, administered by the dean, is intended to encourage interdisciplinary study to cover areas not treated adequately in traditional coursework and to make available promptly the new and significant experience of the faculty.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 1-5 lecture

**Grade Mode:** Standard Letter

### AS 10096 SCIENCE EXPERIENCE 1 Credit Hour

Students will gain experience in research methods via participation in mentored hands-on science research projects. Each student will work on an individual basis in consultation with their assigned research mentor. Laboratory safety training is provided and required for the projects. Students must have completed or be co-enrolled in at least one college level (or advanced placement) class in a relevant STEM discipline.

**Prerequisite:** Special approval.

**Schedule Type:** Laboratory

**Contact Hours:** 3 lab

**Grade Mode:** Standard Letter-IP

### AS 20071 INTRODUCTION TO GENDER AND SEXUALITY STUDIES 3 Credit Hours

Provides an introduction to the interdisciplinary study of gender and sexuality, with particular focus on the tenants of the field (e.g., intersectionality, anti-oppression, social justice).

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

### AS 20095 SPECIAL TOPICS 1-5 Credit Hours

(Repeatable for credit) This program, administered by the dean, is intended to encourage interdisciplinary study, to cover areas not treated adequately in traditional coursework and to make available promptly the new and significant experience of the faculty.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 1-5 lecture

**Grade Mode:** Standard Letter

### AS 30092 INTERNSHIP (ELR) 1-12 Credit Hours

(Repeatable for a maximum of 12 credit hours) Students participate in internships under the direction of a faculty member.

**Prerequisite:** Special approval.

**Schedule Type:** Practical Experience

**Contact Hours:** 3-36 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**Attributes:** Experiential Learning Requirement

### AS 30095 SPECIAL TOPICS 1-5 Credit Hours

(Repeatable for credit) This program, administered by the dean, is intended to encourage interdisciplinary study to cover areas not treated adequately in traditional coursework and to make available promptly the new and significant experience of the faculty.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 1-5 lecture

**Grade Mode:** Standard Letter

### AS 30171 THEORIES OF GENDER AND SEXUALITY 3 Credit Hours

Provides students the opportunity to explore in finer detail the theories and approaches used in the study of gender and sexuality (including feminisms, queer theory, critical theories, intersectionality, anti-oppression, social justice), and to address the influence of such theoretical approaches in further research on the subjects of gender and sexuality and by informing social change and deliberations by individuals and movements concerning gender and sexuality.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

### AS 30195 STUDY ABROAD: SPECIAL TOPICS (ELR) 1-3 Credit Hours

(Repeatable for credit) This course may be offered in conjunction with an academic study abroad opportunity.

**Prerequisite:** Special approval.

**Schedule Type:** Field Experience

**Contact Hours:** 1-3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Experiential Learning Requirement

### AS 30196 INDIVIDUAL INVESTIGATION 1-3 Credit Hours

(Repeatable for credit) Registration requires prior approval from the College of Arts and Sciences office.

**Prerequisite:** Special approval.

**Schedule Type:** Individual Investigation

**Contact Hours:** 1-3 other

**Grade Mode:** Standard Letter

### AS 30295 STUDY AWAY: SPECIAL TOPICS (ELR) 1-3 Credit Hours

(Repeatable for credit) This course may be offered in conjunction with an academic domestic study away opportunity.

**Prerequisite:** Special approval.

**Schedule Type:** Field Experience

**Contact Hours:** 3-9 other

**Grade Mode:** Standard Letter

**Attributes:** Experiential Learning Requirement



**AS 30798 GENDER AND SEXUALITY RESEARCH FORUM (ELR) 3 Credit Hours**

Allows students to do research in areas of gender and sexuality that connects to their own interests, which will be presented in public settings such as panels and presentations.

**Prerequisite:** None.

**Schedule Type:** Lecture, Research

**Contact Hours:** 1 lecture, 2 other

**Grade Mode:** Standard Letter

**Attributes:** Experiential Learning Requirement

**AS 40095 SPECIAL TOPICS 1-5 Credit Hours**

(Repeatable for credit) (Cross-listed with AS 50095 and AS 70095)

This program, administered by the dean, is intended to encourage interdisciplinary study, to cover areas not treated adequately in traditional coursework and to make available promptly the new and significant experience of the faculty.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**AS 41099 CAPSTONE IN GENDER AND SEXUALITY STUDIES (ELR) 3 Credit Hours**

Students will be expected to design and implement an individualized exploration that demonstrates the interactions of theory and application, ideas and practice, and is reflective of the tenets of the interdisciplinary field of gender and sexuality.

**Prerequisite:** None.

**Schedule Type:** Lecture, Research

**Contact Hours:** 1 lecture, 2 other

**Grade Mode:** Standard Letter

**Attributes:** Experiential Learning Requirement

**AS 43001 LEGAL INFORMATION SOURCES AND SERVICES 3 Credit Hours**

(Cross-listed with AS 53001 and AS 73001 and LIS 60619 and LIS 80619) Fundamentals of legal research methods and major sources of American legal literature in print and electronic formats as used in other disciplines. Students learn how to formulate a research plan based on legal analysis of issues using relevant, authoritative legal resources.

**Prerequisite:** Senior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**AS 50095 SPECIAL TOPICS 1-5 Credit Hours**

(Repeatable for credit) (Cross-listed with AS 40095 and AS 70095)

Topic to be announced in the schedule of classes booklet. Repeated registration permitted when content varies.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 1-5 lecture

**Grade Mode:** Standard Letter

**AS 50096 INDIVIDUAL INVESTIGATION 1-6 Credit Hours**

(Repeatable for credit) Pursuit of a subject matter beyond normal course coverage, supervised by a graduate faculty member.

**Prerequisite:** Graduate standing.

**Schedule Type:** Individual Investigation

**Contact Hours:** 1-6 other

**Grade Mode:** Standard Letter

**AS 53001 LEGAL INFORMATION SOURCES AND SERVICES 3 Credit Hours**

(Cross-listed with AS 43001 and AS 73001 and LIS 60619 and LIS 80619) Fundamentals of legal research methods and major sources of American legal literature in print and electronic formats as used in other disciplines. Students learn how to formulate a research plan based on legal analysis of issues using relevant, authoritative legal resources.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**AS 60092 INTERNSHIP 1-6 Credit Hours**

(Repeatable credit) Students participate in internships under the direction of a faculty member.

**Prerequisite:** Special approval.

**Schedule Type:** Practical Experience

**Contact Hours:** 3-18 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**AS 61000 METHODS AND APPROACHES TO MULTIDISCIPLINARY STUDIES 3 Credit Hours**

Methods and approaches to graduate-level multidisciplinary studies.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**AS 61001 LIBERAL STUDIES RESEARCH PAPER 1-3 Credit Hours**

Learning to write a graduate-level research paper.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Seminar

**Contact Hours:** 1-3 lecture

**Grade Mode:** Standard Letter-IP

**AS 61095 LIBERAL STUDIES SEMINAR 3 Credit Hours**

(Repeatable for credit) An interdisciplinary seminar designed for candidates in the liberal studies program. Topics will vary.

**Prerequisite:** None.

**Schedule Type:** Seminar

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**AS 61098 LIBERAL STUDIES ESSAY 3 Credit Hours**

(Repeatable for credit) The preparation of an essay of approximately 50 pages on a topic related to the student's program of study for the Master of Liberal Studies degree.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Research

**Contact Hours:** 3 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**AS 70095 SPECIAL TOPICS 1-5 Credit Hours**

(Repeatable for credit) (Cross-listed with AS 40095 and AS 50095) Topic to be announced in the schedule of classes booklet.

**Prerequisite:** Doctoral standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 1-5 lecture

**Grade Mode:** Standard Letter

**AS 70096 INDIVIDUAL INVESTIGATION 1-6 Credit Hours**

(Repeatable for credit) Pursuit of a subject matter beyond normal course coverage, supervised by a graduate faculty member.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Individual Investigation

**Contact Hours:** 1-6 other

**Grade Mode:** Standard Letter

**AS 73001 LEGAL INFORMATION SOURCES AND SERVICES 3 Credit Hours**

(Cross-listed with LIS 60619 and LIS 80619) (Slashed with AS 43001 and AS 53001) Fundamentals of legal research methods and major sources of American legal literature in print and electronic formats as used in other disciplines. Students learn how to formulate a research plan based on legal analysis of issues using relevant, authoritative legal resources.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

## Integrative Studies (IGST)

**IGST 40099 SENIOR PROJECT (ELR) (WIC) 1-3 Credit Hours**

(Repeatable twice for credit) Senior Project is a thesis or independent study done under the supervision of a faculty advisor. Students need written approval of faculty advisor, faculty member's unit, or director of the Center for Comparative and Integrative Programs in order to enroll in this course.

**Prerequisite:** Senior standing in a multidisciplinary program in the center for comparative and integrative programs; and special approval.

**Schedule Type:** Senior Project/Honors Thesis

**Contact Hours:** 1-3 other

**Grade Mode:** Standard Letter-IP

**Attributes:** Experiential Learning Requirement, Writing Intensive Course

**IGST 40192 INTERNSHIP IN INTEGRATIVE STUDIES (ELR) 3-6 Credit Hours**

(Repeatable for credit) Internship.

**Prerequisite:** Special approval from the director of the center for comparative and integrative programs.

**Schedule Type:** Practical Experience

**Contact Hours:** 9-18 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**Attributes:** Experiential Learning Requirement

## Jewish Studies (JWST)

**JWST 11001 INTRODUCTION TO JEWISH STUDIES 3 Credit Hours**

Introductory exploration and examination of the diversity of Jewish life, culture, religion and society from antiquity to the present.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**JWST 20011 INTRODUCTION TO THE HEBREW BIBLE OR OLD TESTAMENT 3 Credit Hours**

Introduces students to the modern study of the Hebrew Bible (Old Testament) and the history and religion of ancient Israel. Designed to help students to understand the development of the Hebrew Bible in its ancient context. The course approaches the Hebrew Bible from historical, comparative, literary, anthropological and archeological perspectives in an effort to illuminate the world of its authors. No prior knowledge of the Bible, Judaism or Christianity is required.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**JWST 30092 INTERNSHIP IN JEWISH STUDIES (ELR) 3-6 Credit Hours**

(Repeatable for credit) Internship in Jewish studies.

**Prerequisite:** Special approval.

**Schedule Type:** Practical Experience

**Contact Hours:** 9-18 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**Attributes:** Experiential Learning Requirement

**JWST 30100 JEWISH WOMEN IN THE MODERN WORLD 3 Credit Hours**

Course explores the lives and experiences of Jewish women from diverse communities and traditions, in relation to a wide array of divergent cultural contexts within the modern world.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**JWST 30200 JEWS, BASEBALL AND AMERICAN SPORTS 3 Credit Hours**

Chronicles the experience of Jewish players and performers in American sports. Course explores the issues of religious and ethnic prejudice that Jewish athletes endured, challenged and overcame.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**JWST 30300 CHILDREN OF THE HOLOCAUST: PERPETRATORS AND VICTIMS 3 Credit Hours**

Examination of the children directly affected by the Holocaust (whether as victims, perpetrators, heroes, rescuers or survivors) and the impact these children had on the Holocaust and on history.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**JWST 40095 SPECIAL TOPICS IN JEWISH STUDIES 3 Credit Hours**

(Repeatable for credit) Topics vary per course offering as published in the Schedule of Classes.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**JWST 40096 INDIVIDUAL INVESTIGATION 1-3 Credit Hours**  
(Repeatable for credit) Student-initiated experience in an area of interest not covered by a regular course offering and with the guidance of a Kent State faculty member.

**Prerequisite:** Special approval.

**Schedule Type:** Individual Investigation

**Contact Hours:** 3-9 other

**Grade Mode:** Standard Letter

## Paralegal Studies (PLST)

**PLST 18000 INTRODUCTION TO PARALEGAL STUDIES AND PROFESSIONAL ETHICS 3 Credit Hours**

An overview of the legal system and the role of a paralegal professional. Includes legal terminology, types of laws, research, litigation, interviewing and office management.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PLST 28001 LEGAL RESEARCH AND WRITING 3 Credit Hours**

In-depth analysis of the legal research process, development of legal writing skills, opportunities to utilize research and writing skills are integrated into the course.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PLST 28003 FAMILY LAW AND PROCEDURE 3 Credit Hours**

Designed to acquaint the student with family law substance and practice. Covers definitions, terminology, topical areas and the philosophy underlying family law practice.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PLST 28004 PRINCIPLES AND PRACTICE OF LITIGATION 3 Credit Hours**

Provides an introduction to the rules of civil procedure, statutes of limitation, and discovery. Included in this course is a discussion of the role of the paralegal in preparation for litigation.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PLST 28007 ESTATE AND PROBATE ADMINISTRATION 3 Credit Hours**

A study of legal principles applicable to wills, organization and jurisdiction of probate court, estate administration in probate and tax considerations in estate administration.

**Prerequisite:** PLST 18000.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PLST 30000 ENVIRONMENTAL PROTECTION REGULATIONS AND ASSESSMENT 3 Credit Hours**

The Federal and State environmental regulations including the National Environmental Policy Act, the Clean Air Act, the Clean Water Act, Solid and Hazardous Waste regulations (RCRA) and the Superfund Legislation require the utilization of trained environmental professionals to conduct Environmental Site Assessments (ESAs). The focus of this course is to introduce students to the methods and approaches for conducting environmental research and study of industrial sites with respect to environmental policies and regulations. The enforcement of regulations utilize environmental professionals who serve in governmental agencies, work in private environmental companies that provide assessments and consultations for industries, and who are employed by industries that seek qualified employees to conduct assessments, and provide professional guidance for industrial regulatory compliance.

**Prerequisite:** Junior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PLST 35001 ENVIRONMENTAL LAW FOR PARALEGALS 3 Credit Hours**

Acquaints the student with the various federal and state statutes, administrative rules and case law that govern environmental regulation. International environmental law is also studied.

**Prerequisite:** Sophomore standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PLST 35003 HEALTH LAW 3 Credit Hours**

Makes the student familiar with legal topics in the field of health care including federal and state statutes governing the health care industry in the United States. Specific topics include insurance, privacy, malpractice, fraud, Medicare, Medicaid, health records, labor law-related issues and clinical research.

**Prerequisite:** Sophomore standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PLST 35005 LABOR AND EMPLOYMENT LAW FOR PARALEGALS 3 Credit Hours**

Provides a foundation in the areas of labor law, employment law, and employment discrimination law. Requires in-depth study of constitutional, statutory, administrative, and case law at both the federal and state level.

**Prerequisite:** Sophomore standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PLST 35007 ENERGY AND NATURAL RESOURCES LAW 3 Credit Hours**

Acquaints the student with the various sources of law that govern energy production and the harvesting of natural resources in the United States. Statutory, administrative, and case law at the federal and state levels are explored.

**Prerequisite:** Sophomore standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PLST 36792 INTERNSHIP IN PARALEGAL (ELR) 3-12 Credit Hours**  
(Repeatable for credit) Work experience under direction of supervising faculty member in the following entities: private law firms, legal service/legal aid offices, law departments or corporations and government agencies.

**Prerequisite:** PLST 18000 and 28001 and 28004.

**Schedule Type:** Practical Experience

**Contact Hours:** 21-84 other

**Grade Mode:** Standard Letter-IP

**Attributes:** Experiential Learning Requirement

**PLST 38003 ADMINISTRATIVE LAW AND PROCESS 3 Credit Hours**

The substantive and procedural aspects of administrative law are covered in this course. Specific topics include the regulation of public utilities, transportation agencies, employment, food and drugs and the environment.

**Prerequisite:** Sophomore standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PLST 38005 TORT LAW 3 Credit Hours**

Focus is on tort and personal injury law. Specific topics include intentional torts, negligent torts, strict liability, vicarious liability, product liability and business torts. Defenses to tort and product liability are also discussed.

**Prerequisite:** Sophomore standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PLST 38006 APPLIED LEGAL RESEARCH AND LITIGATION (WIC) 3 Credit Hours**

Provides for intense case analysis and preparation of argumentative memorandum, including writing of factual memoranda, file summaries and advocacy letters.

**Prerequisite:** PLST 28001.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Writing Intensive Course

**PLST 42701 EVIDENCE AND E-DISCOVERY 3 Credit Hours**

Addresses the various issues concerning the use of evidence in the pre-trial, trial, and post-trial phases of litigation. The course will address the traditional rules and issues associated with litigation practice as well as the new issues concerning electronic discovery of evidence and the use of that evidence.

**Prerequisite:** PLST 28001; and PLST 28004.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PLST 42705 BANKRUPTCY LAW I: BASIC FUNDAMENTALS 3 Credit Hours**

Provides an outlay of the fundamentals of bankruptcy law including the basic rules of the Chapter 7, Chapter 11, and Chapter 13 forms of bankruptcy. This course will also cover other topics such as the bankruptcy petition, the role of the bankruptcy trustee, and discharge from bankruptcy.

**Prerequisite:** Sophomore standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PLST 42706 BANKRUPTCY LAW II: CREDITOR-DEBTOR RELATIONS 3 Credit Hours**

Addresses issues not addressed in PLST 42705 including Chapter 9, Chapter 12, and Chapter 15 bankruptcy as well as the problems associated with gaining and collecting on a judgment. International bankruptcy issues will also be addressed.

**Prerequisite:** PLST 42705.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PLST 42708 REAL ESTATE LAW 3 Credit Hours**

Provides a general outlay of real estate law in the United States. Students will learn the substantive and procedural aspects of gaining and protecting property rights. Real estate contracts, financing, zoning, and landlord-tenant issues will also be covered.

**Prerequisite:** Sophomore standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PLST 48002 CONTRACT LAW 3 Credit Hours**

Intended to provide the student with an in-depth analysis of basic contract law as such related to contract information, performance and remedies. Also intended to familiarize the student with the sources of law that define contracts with an emphasis on reading and understanding case law. The student also develops a vocabulary of legal terms so that the student may assist the legal practitioner in the representation of clients in business transactions and in disputes.

**Prerequisite:** Sophomore standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PLST 48300 LAW OF CORPORATIONS AND OTHER ASSOCIATIONS 3 Credit Hours**

Covers the formation, operation and dissolution of various kinds of business organizations. Subjects covered include sole proprietorships, corporations, partnerships, the law of agency and employment agreements.

**Prerequisite:** Sophomore standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PLST 48401 PATENT LAW 3 Credit Hours**

Provides the student with an in-depth analysis of the law pertaining to patents, stressing the ability of the owner to protect their rights through filing, registration and use. International issues concerning registration, use, and trade agreements are also covered.

**Prerequisite:** Sophomore standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PLST 48403 PATENT PROSECUTION 3 Credit Hours**

Students learn to craft patent claims in various types of patent applications that would be submitted to the U.S. Patent and Trademark Office. Students also learn the mechanics of various types of patent applications including traditional applications, provisional applications, divisional applications and continuing applications. Students also gain an understanding of the various post-grant proceedings.

**Prerequisite:** PLST 48401; and sophomore standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PLST 48404 COPYRIGHT LAW I 3 Credit Hours**

(Slashed with PLST 58404) Intended to provide the student with an in-depth analysis of the foundations of the law pertaining to copyrights. Stresses the ability of the owner to protect such rights through use and registration. Also discusses the links to patent law, trademark law and the law of trade secrets.

**Prerequisite:** Sophomore standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PLST 48407 TRADEMARK LAW 3 Credit Hours**

(Slashed with PLST 58407) Intended to provide the student with an in-depth analysis of the law pertaining to trademarks and trade secrets. Stresses the ability of the owner to protect such rights through use and registration. Also discusses the links to patent law and copyright law.

**Prerequisite:** Sophomore standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PLST 48408 TRADEMARK PROSECUTION 3 Credit Hours**

Covers the substantive and procedural aspects of trademark prosecution at the state, federal, and international levels. Special attention will be paid to the topics of drafting the trademark application and conducting searches of existing trademarks in the United States and abroad.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PLST 58404 COPYRIGHT LAW I 3 Credit Hours**

(Slashed with PLST 48404) Intended to provide the student with an in-depth analysis of the foundations of the law pertaining to copyrights. Stress the ability of the owner to protect such rights through use and registration. Also discusses the links to patent law, trademark law and the law of trade secrets.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PLST 58407 TRADEMARK LAW 3 Credit Hours**

(Slashed with PLST 48407) Intended to provide the student with an in-depth analysis of the law pertaining to trademarks and trade secrets. The course will stress the ability of the owner to protect such rights through use and registration. The course will also discuss the links to patent law and copyright law.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

## Religion (REL)

**REL 11020 INTRODUCTION TO WORLD RELIGIONS (DIVG) (ELR) (KHUM) 3 Credit Hours**

A study of the religious impulse as it manifests itself in the plurality of beliefs, practices and institutions of the world religions.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Diversity Global, Experiential Learning Requirement, Kent Core Humanities, Transfer Module Humanities

**REL 12020 INTRODUCTION TO NEW TESTAMENT LITERATURE 3 Credit Hours**

Course introduces students to the literature of the New Testament and to the early Christian communities in which the works were formulated. Of focused interest is the critical study of the content of the texts, with close consideration of the historical and literary influences on the composition and reception of the gospel traditions as regards their presentations of the life, ministry and person of Jesus, and the letters of Paul. The post-Pauline pastoral epistles, and various later works included in the collection are briefly examined.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**REL 21021 MOSES, JESUS AND MOHAMMAD (DIVG) (ELR) (KHUM) 3 Credit Hours**

An in-depth exploration of Judaism, Christianity and Islam, considering the circumstances of each tradition's beginnings, the influence of the identified founder, and the cultural diversities evident in the history of each of the distinctive religious traditions, as well as the interconnectedness and influence of each of three religions upon the others. Course concludes with a consideration of the contemporary situations faced by the traditions, including their engagements with modernity and one another as global historic traditions in a changing world.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Diversity Global, Experiential Learning Requirement, Kent Core Humanities, Transfer Module Humanities

**REL 31065 COMPARATIVE RELIGIOUS EXPERIENCE 3 Credit Hours**

Examination of the phenomena of religious experience, its structure, ramifications and expression in myth and ritual.

**Prerequisite:** REL 11020 or REL 21021.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**REL 31075 RELIGION AND WOMEN 3 Credit Hours**

Course serves to provide students with an opportunity to examine the status of women as concerns authoritative texts, politics, doctrines and institutions through the critical study of the history, texts and artifacts of selected traditional religions with the use of multidisciplinary and cross-cultural approaches concerning the experience, contributions, topics and status of women – both historically and in contemporary contexts.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter



**REL 31091 SEMINAR: RELIGION IN THE MODERN WORLD 3 Credit Hours**

(Repeatable for maximum 6 credit hours) An inquiry into the influences of modernity in the conception, valuation and-or interpretation of religious convictions, beliefs, symbolizations, institutions and artifacts (including texts). Students with junior standing should contact the director of the Religion Studies program for a prerequisite override, if necessary.

**Prerequisite:** REL 11020 or REL 21021.

**Schedule Type:** Seminar

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**REL 40095 SPECIAL TOPICS IN RELIGION STUDIES 3 Credit Hours**

(Repeatable for credit when topics vary) Special topics seminar in religion studies.

**Prerequisite:** Junior standing.

**Schedule Type:** Seminar

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**REL 40096 INDIVIDUAL INVESTIGATION 1-3 Credit Hours**

(Repeatable for credit) Individual investigation in religion studies.

**Prerequisite:** Special approval.

**Schedule Type:** Individual Investigation

**Contact Hours:** 3-9 other

**Grade Mode:** Standard Letter

**REL 41010 RELIGION VIOLENCE AND TERROR 3 Credit Hours**

Course explores a variety of religions focusing on the themes of violence and terror. The examination employs different academic approaches to selected historic examples and their underlying causes.

**Prerequisite:** REL 11020 or REL 21021.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**REL 41091 SEMINAR IN ADVANCED COMPARATIVE RELIGION 3 Credit Hours**

(Repeatable for a maximum of 6 credit hours)(Slashed with REL 51091) Variable content course that is an advanced examination of pivotal issues, schools and theorists in the study of religion and the future of comparative studies.

**Prerequisite:** REL 11020 or REL 21021 with a minimum C grade; and REL 31065 or REL 31091; and junior or senior standing.

**Schedule Type:** Seminar

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**REL 51091 SEMINAR IN ADVANCED COMPARATIVE RELIGION 3 Credit Hours**

(Repeatable for a maximum of 6 credit hours)(Slashed with REL 41091) Variable content course that is an advanced examination of pivotal issues, schools and theorists in the study of religion and the future of comparative studies.

**Prerequisite:** Graduate standing.

**Schedule Type:** Seminar

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

## Ancient, Medieval and Renaissance Studies - Minor

College of Arts and Sciences

Center for Comparative and Integrative Programs

105 Bowman Hall

Kent Campus

330-672-2062

www.kent.edu/ccip

## Description

The Ancient, Medieval and Renaissance Studies minor offers a culturally comparative program in which the distance of time lends profound diversity from present experience. The minor allows students to explore the origins and development of Western culture as defined across continents, religions and civilizations, through a range of disciplines (anthropology, architecture, art, fashion, history, language, literature, music, philosophy, religion and theatre). The program's flexibility encourages students to pursue specific interests, for example, early religion, high medieval culture, classical influences upon the Renaissance or Byzantine culture.

## Fully Offered At:

- Kent Campus

## Admission Requirements

Admission to a minor is open to students declared in a bachelor's degree, the A.A.B. or A.A.S. degree or the A.T.S. degree (not Individualized Program major). Students declared only in the A.A. or A.S. degree or the A.T.S. degree in Individualized Program may not declare a minor. Students may not pursue a minor and a major in the same discipline.

## Minor Requirements

Code	Title	Credit Hours
<b>Minor Requirements</b>		
Minor Lower-Division Electives (must be from two disciplines), choose from the following:		6
ANTH 18210	GLOBAL CULTURAL DIVERSITY: ANTHROPOLOGICAL PERSPECTIVES (DIVG) (KSS)	
ANTH 18420	INTRODUCTION TO ARCHAEOLOGY (DIVG) (KSS)	
ARCH 10011	GLOBAL ARCHITECTURAL HISTORY I (KFA)	
ARCH 10012	GLOBAL ARCHITECTURAL HISTORY II (KFA)	
ARCH 10111	HISTORY OF ARCHITECTURE I	
ARCH 20112	HISTORY OF ARCHITECTURE II	
ARTH 22006	ART HISTORY: ANCIENT AND MEDIEVAL ART (KFA)	
ARTH 22007	ART HISTORY: RENAISSANCE TO MODERN ART (KFA)	
CLAS 21404	THE GREEK ACHIEVEMENT (DIVG) (KHUM)	
CLAS 21405	THE ROMAN ACHIEVEMENT (DIVG) (KHUM)	
ENG 21054	INTRODUCTION TO SHAKESPEARE (KHUM)	
ENG 22071	GREAT BOOKS TO 1700 (KHUM)	
ENG 25001	LITERATURE IN ENGLISH I	
HIST 11050	WORLD HISTORY: ANCIENT AND MEDIEVAL (DIVG) (KHUM)	
MUS 32211	MUSIC HISTORY I	
REL 11020	INTRODUCTION TO WORLD RELIGIONS (DIVG) (ELR) (KHUM)	
Minor Upper-Division Electives (must be from three or more disciplines), choose from the following:		15

ANTH 48150	RELIGION: A SEARCH FOR A MEANING
ARCH 45210	RENAISSANCE ARCHITECTURE
ARCH 45211	BAROQUE ARCHITECTURE
ARTH 42031	GREEK ARCHAEOLOGY AND ART
or CLAS 41401	GREEK ARCHAEOLOGY AND ART
ARTH 42032	ROMAN ARCHAEOLOGY AND ART
or CLAS 41402	ROMAN ARCHAEOLOGY AND ART
ARTH 42036	MEDIEVAL ART
ARTH 42039	GOTHIC ART, 12TH TO 15TH CENTURIES
ARTH 42041	ITALIAN RENAISSANCE ART
ARTH 42042	NORTHERN RENAISSANCE ART
ARTH 42046	BAROQUE ART OF THE 17TH CENTURY
ARTH 42095	SPECIAL TOPICS:ART HISTORY
CLAS 41006	ROMAN HISTORY
CLAS 41097	COLLOQUIUM IN CLASSICS
CLAS 41301	CLASSICAL MYTHOLOGY
CLAS 41503	LITERATURE OF THE ANCIENT GREEKS (ELR) (WIC)
ENG 31002	HISTORY OF THE ENGLISH LANGUAGE
ENG 34001	MEDIEVAL LITERATURE
ENG 34002	BRITISH LITERATURE, 1500-1660
ENG 34055	SHAKESPEARE
ENG 34065	CHAUCER
ENG 34095	SPECIAL TOPICS:MAJOR AUTHOR STUDIES
ENG 35201	THE BIBLE AS LITERATURE
ENG 37001	CLASSICAL RHETORIC
ENG 39995	SPECIAL TOPICS CULTURAL STUDIES
GRE 34370	PLATO:APOLOGY AND PHAEDO
GRE 34371	HOMER
HIST 31027	HISTORY OF ENGLAND TO 1688
HIST 31031	THE PROTESTANT AND CATHOLIC REFORMATIONS
HIST 31032	SEVENTEENTH-CENTURY EUROPE
HIST 31056	EUROPE IN THE RENAISSANCE
HIST 31127	ANCIENT AND EARLY MEDIEVAL JEWISH HISTORY
HIST 31128	LATE MEDIEVAL AND MODERN JEWISH HISTORY
HIST 41010	THE EARLY MIDDLE AGES
HIST 41011	THE HIGH MIDDLE AGES
HIST 41044	IMPERIAL RUSSIA, 1689-1917
LAT 36170	CICERO
LAT 36171	VERGIL
LAT 46095	SELECTED TOPICS IN LATIN
LAT 46373	ADVANCED PROSE AUTHORS
MUS 40295	SPECIAL TOPICS IN MUSIC
PHIL 31001	ANCIENT GREEK PHILOSOPHY (WIC)
PHIL 31002	MEDIEVAL PHILOSOPHY (WIC)
PHIL 41065	PLATO
PHIL 41070	ARISTOTLE
REL 31065	COMPARATIVE RELIGIOUS EXPERIENCE
SPAN 38330	EARLY SPANISH LITERATURE (ELR) (WIC)

Minimum Total Credit Hours:

21

## Graduation Requirements

Minimum Minor GPA	Minimum Overall GPA
2.000	2.000

- Students must complete at least two upper-division (30000 or 40000 level) courses in the minor at Kent State on a graded basis (A-F).
- Appropriate specialized offerings may be substituted above as available with approval of the minor coordinator(s)
- Minimum 6 credit hours in the minor must be upper-division coursework (30000 and 40000 level).
- Minimum 6 credit hours in the minor must be outside of the course requirements for any major or other minor the student is pursuing.
- Minimum 50 percent of the total credit hours for the minor must be taken at Kent State (in residence).

## History and Philosophy of Science - Minor

### College of Arts and Sciences

Center for Comparative and Integrative Programs  
105 Bowman Hall  
Kent Campus  
330-672-2062  
[www.kent.edu/ccip](http://www.kent.edu/ccip)

## Description

The History and Philosophy of Science minor prepares students from a variety of related disciplines to think about science as a social, historical and philosophical enterprise. It will prepare students for graduate work in history of science, philosophy of science and science and technology studies, as well as for careers in areas of public and educational policy related to science.

Science is arguably the supreme intellectual enterprise of our species. It pervades nearly every aspect of modern society. Scientific research is heavily funded by governments and private institutions; courses in science are requirements at every level of education; scientific accomplishments are honored with awards and prizes; museums display scientific achievements and inventions. Moreover, the sheer depth and breadth of scientific progress through human history is monumental. All of this raises questions about what science is, how it works, and how it manages to be as successful as it is. These questions define the discipline known as the history and philosophy of science, which aims to study science, to understand its goals and methods, its principles and practices and its failures and triumphs.

### Fully Offered At:

- Kent Campus

## Admission Requirements

Admission to a minor is open to students declared in a bachelor's degree, the A.A.B. or A.A.S. degree or the A.T.S. degree (not Individualized Program major). Students declared only in the A.A. or A.S. degree or the A.T.S. degree in Individualized Program may not declare a minor. Students may not pursue a minor and a major in the same discipline.

## Minor Requirements

Code	Title	Credit Hours
HIST 31500	FOUNDATIONS IN THE HISTORY AND PHILOSOPHY OF SCIENCE	3
or PHIL 31080	FOUNDATIONS IN THE HISTORY AND PHILOSOPHY OF SCIENCE	
HIST 31543	THE SCIENTIFIC REVOLUTION	3
PHIL 41035	PHILOSOPHY OF SCIENCE	3
Science Electives, choose from the following: <sup>1</sup>		3-4
BSCI 10001	HUMAN BIOLOGY (KBS)	
BSCI 10002	LIFE ON PLANET EARTH (KBS)	
CHEM 10030	CHEMISTRY IN OUR WORLD (KBS)	
CHEM 10055	MOLECULES OF LIFE (KBS)	
CS 10001	COMPUTER LITERACY	
CS 10051	INTRODUCTION TO COMPUTER SCIENCE (KMCR)	
EMAT 10010	INTRODUCTION TO EMERGING MEDIA AND TECHNOLOGY	
EMAT 30410	INFORMATION ETHICS AND SOCIAL RESPONSIBILITY	
GEOL 11040	HOW THE EARTH WORKS (KBS)	
GEOL 11042	EARTH AND LIFE THROUGH TIME (KBS)	
MATH 10041	INTRODUCTORY STATISTICS (KMCR)	
MATH 11008	EXPLORATIONS IN MODERN MATHEMATICS (KMCR)	
MATH 11009	MODELING ALGEBRA (KMCR)	
MATH 12021	CALCULUS FOR LIFE SCIENCES	
PHY 11030	SEVEN IDEAS THAT SHOOK THE UNIVERSE (KBS)	
PHY 21430	FRONTIERS IN ASTRONOMY (KBS)	
PSYC 11762	GENERAL PSYCHOLOGY (DIVD) (KSS)	
History and Philosophy Electives, choose from the following:		6
HIST 31550	MEDICINE IN THE MODERN WORLD SINCE 1500	
HIST 41071	AMERICAN SOCIAL AND INTELLECTUAL HISTORY, 1876-PRESENT (DIVD)	
PHIL 21002	INTRODUCTION TO FORMAL LOGIC (KMCR)	
PHIL 30025	ENVIRONMENTAL ETHICS (ELR)	
PHIL 31003	CONTINENTAL RATIONALISM (WIC)	
PHIL 31004	BRITISH EMPIRICISM (WIC)	
PHIL 41036	PHILOSOPHY OF COGNITIVE SCIENCE	
PHIL 41037	RENAISSANCE AND EARLY MODERN PHILOSOPHY AND SCIENCE	
PHIL 41040	EPISTEMOLOGY	
Minimum Total Credit Hours:		18

<sup>1</sup> Students declared in a major from any of programs listed in the Science Electives do not need to take a course from Science Electives, and should select an additional course from the History and Philosophy Electives.

## Graduation Requirements

Minimum Minor GPA	Minimum Overall GPA
2.000	2.000

- Students must complete at least two upper-division (30000 or 40000 level) courses in the minor at Kent State on a graded basis (A-F).
- Minimum 6 credit hours in the minor must be upper-division coursework (30000 and 40000 level).
- Minimum 6 credit hours in the minor must be outside of the course requirements for any major or other minor the student is pursuing.
- Minimum 50 percent of the total credit hours for the minor must be taken at Kent State (in residence).

## Integrative Studies - B.I.S.

### College of Arts and Sciences

Center for Comparative and Integrative Programs

105 Bowman Hall

Kent Campus

330-672-2062

[www.kent.edu/ccip](http://www.kent.edu/ccip)

## Description

The Bachelor of Integrative Studies degree provides maximum freedom for students who wish to take a multidisciplinary, individualized approach to the design of an educational program while maintaining a focus on career and professional goals. The Integrative Studies major has a General concentration, and a Two Minors concentration. These concentrations may have the most appeal for students near the end of their academic careers (senior-level students) who are re-evaluating their academic and career choices. It is a program in which the student undertakes the responsibility for the research and design of their program, in consultation with an advisor.

The **Integrative Studies-General** concentration allows students to choose a minimum of 30 credit hours from interrelated programs that support their career aspirations.

The **Integrative Studies-Two Minors** concentration allows students to complete two university-recognized minors and/or certificates. A minimum of two academic departments in which to select courses are chosen and a rationale for the ways in which these courses support the student's career goals is developed.

## Fully Offered At:

- Ashtabula Campus
- East Liverpool Campus
- Geauga Campus
- Kent Campus
- Salem Campus
- Stark Campus
- Trumbull Campus
- Tuscarawas Campus

## Admission Requirements

Students, who wish to declare either the General or the Two Minors concentrations of the Integrative Studies major within the Bachelor of Integrative Studies degree, must meet with a B.I.S. academic advisor in the College of Arts and Sciences to discuss their future academic and career goals and to develop an approved program of study. Ideally,

students should begin the process for evaluation and program review at or near the time they have a minimum of 60 earned credit hours. In order to declare the Integrative Studies major within the Bachelor of Integrative Studies degree, the procedures listed below must be followed:

1. Visit or call the College Office, 105 Bowman Hall (Kent Campus), to arrange for an initial conference with a B.I.S. advisor (students on the regional campuses should contact their campus advising office for further information on this first step). This conference will include an evaluation of completed coursework and discussion of future academic and career goals. Working closely with an academic advisor, a program of study will be determined and reflected on the degree audit.
2. When the program of study is completed and approved by the College, the student and advisor complete a Change of Program form declaring either the Integrative Studies-General concentration or the Integrative Studies-Two Minors concentrations of the Integrative Studies major within the Bachelor of Integrative Studies degree. College approval of this form completes admission to the program.

## University Requirements

All students in a bachelor's degree program at Kent State University must complete the following university requirements for graduation.

**NOTE:** University requirements may be fulfilled in this program by specific course requirements. Please see Program Requirements for details.

Destination Kent State: First Year Experience	1
Course is not required for students with 25 transfer credits, excluding College Credit Plus, or age 21+ at time of admission.	
Diversity Domestic/Global (DIVD/DIVG)	2 courses
Students must successfully complete one domestic and one global course, of which one must be from the Kent Core.	
Experiential Learning Requirement (ELR)	varies
Students must successfully complete one course or approved experience.	
Kent Core (see table below)	36-37
Writing-Intensive Course (WIC)	1 course
Students must earn a minimum C grade in the course.	
Upper-Division Requirement	39 (or 42)
Students must successfully complete 39 upper-division (numbered 30000 to 49999) credit hours to graduate. Students in a B.A. and/or B.S. degree in the College of Arts and Sciences must complete 42 upper-division credit hours.	
Total Credit Hour Requirement	120
Some bachelor's degrees require students to complete more than 120 credit hours.	

## Kent Core Requirements

Kent Core Composition (KCOMP)	6
Kent Core Mathematics and Critical Reasoning (KMCR)	3
Kent Core Humanities and Fine Arts (KHUM/KFA) (min one course each)	9
Kent Core Social Sciences (KSS) (must be from two disciplines)	6
Kent Core Basic Sciences (KBS/KLAB) (must include one laboratory)	6-7
Kent Core Additional (KADL)	6
<b>Total Credit Hours:</b>	<b>36-37</b>

## Program Requirements

In addition to the University Requirements, this is a program allows the student to take responsibility for the research and design of their program, in consultation with an advisor.

The **Integrative Studies-General** concentration allows students to choose a minimum of 30 credit hours from interrelated programs that support their career aspirations.

The **Integrative Studies-Two Minors** concentration allows students to complete two university-recognized minors and/or certificates. A minimum of two academic departments in which to select courses are chosen and a rationale for the ways in which these courses support the student's career goals is developed.

## Graduation Requirements

Minimum Major GPA	Minimum Overall GPA
-	2.000

The Bachelor of Integrative Studies (B.I.S.) requires a minimum total of 120 earned credit hours. In addition, 42 of those 120 credit hours must be at the upper-division (30000-40000) Students in both the Integrative Studies-General concentration and the Integrative Studies-Two Minors concentration are required to complete IGST 40099 Senior Project, as well as all University Requirements and College Requirements.

## Jewish Studies - Minor

### College of Arts and Sciences

Center for Comparative and Integrative Programs  
105 Bowman Hall  
Kent Campus  
330-672-2062  
[www.kent.edu/ccip](http://www.kent.edu/ccip)

## Description

The Jewish Studies minor enables students enrolled in any major to learn about different aspects of Jewish heritage and culture. Each year, scholarships may be awarded to students pursuing the Jewish Studies minor.

### Fully Offered At:

- Kent Campus

## Admission Requirements

Admission to a minor is open to students declared in a bachelor's degree, the A.A.B. or A.A.S. degree or the A.T.S. degree (not Individualized Program major). Students declared only in the A.A. or A.S. degree or the A.T.S. degree in Individualized Program may not declare a minor. Students may not pursue a minor and a major in the same discipline.

## Minor Requirements

Code	Title	Credit Hours
<b>Minor Requirements</b>		
JWST 11001	INTRODUCTION TO JEWISH STUDIES	3

Jewish Culture, History, Literature and Thought Electives, choose from the following: <sup>1</sup> 15

ANTH 48150	RELIGION: A SEARCH FOR A MEANING
ENG 35201	THE BIBLE AS LITERATURE
GEOG 22061	HUMAN GEOGRAPHY (DIVG) (KSS)
GEOG 32080	POLITICS AND PLACE (DIVG)
GER 41216	CONTEMPORARY GERMAN CULTURE (ELR) (WIC)
HEBR 12101	ELEMENTARY HEBREW I
HEBR 12102	ELEMENTARY HEBREW II
HIST 31024	WORLD WAR II
HIST 31104	MIGRATIONS TO AMERICA, 1607 TO PRESENT
HIST 31126	HISTORY OF THE MIDDLE EAST
HIST 31127	ANCIENT AND EARLY MEDIEVAL JEWISH HISTORY
HIST 31128	LATE MEDIEVAL AND MODERN JEWISH HISTORY
HIST 41024	MODERN EUROPEAN HISTORY, 1914-1945
HIST 41041	HISTORY OF GERMANY, 1871-PRESENT
HIST 41129	THE HOLOCAUST:THE DESTRUCTION OF EUROPEAN JEWRY, 1938-1945
JMC 40010	ETHICS AND ISSUES IN MASS COMMUNICATION (WIC)
JWST 20011	INTRODUCTION TO THE HEBREW BIBLE OR OLD TESTAMENT
JWST 30100	JEWISH WOMEN IN THE MODERN WORLD
JWST 30200	JEWS, BASEBALL AND AMERICAN SPORTS
JWST 30300	CHILDREN OF THE HOLOCAUST: PERPETRATORS AND VICTIMS
JWST 40095	SPECIAL TOPICS IN JEWISH STUDIES
PHIL 41010	PROBLEMS IN THE PHILOSOPHY OF RELIGION
POL 40530	POLITICS OF WAR
PSYC 31532	SOCIAL PSYCHOLOGY
REL 11020	INTRODUCTION TO WORLD RELIGIONS (DIVG) (ELR) (KHUM)
REL 21021	MOSES, JESUS AND MOHAMMAD (DIVG) (ELR) (KHUM)
REL 31065	COMPARATIVE RELIGIOUS EXPERIENCE
REL 31091	SEMINAR: RELIGION IN THE MODERN WORLD
REL 41091	SEMINAR IN ADVANCED COMPARATIVE RELIGION
SOC 42561	SOCIOLOGY OF RELIGION
SOC 42568	RACE AND ETHNIC STUDIES (DIVD)

Minimum Total Credit Hours: 18

<sup>1</sup> Students cannot choose more than two courses from any course subject. Appropriate special topics and seminar courses may be substituted with approval of the Jewish studies coordinator.

### Graduation Requirements

Minimum Minor GPA	Minimum Overall GPA
2.000	2.000

- Students must complete at least two upper-division (30000 or 40000 level) courses in the minor at Kent State on a graded basis (A-F).
- Minimum 6 credit hours in the minor must be upper-division coursework (30000 and 40000 level).

- Minimum 6 credit hours in the minor must be outside of the course requirements for any major or other minor the student is pursuing.
- Minimum 50 percent of the total credit hours for the minor must be taken at Kent State (in residence).

## Latin American Studies - Minor

### College of Arts and Sciences

Center for Comparative and Integrative Programs  
 105 Bowman Hall  
 Kent Campus  
 330-672-2062  
[www.kent.edu/ccip](http://www.kent.edu/ccip)

### Description

The Latin American Studies minor is interdisciplinary and allows students to explore the region from a variety of disciplinary perspectives. It complements a number of programs, including history, geography, Spanish, political science and international relations.

### Fully Offered At:

- Kent Campus

### Admission Requirements

Admission to a minor is open to students declared in a bachelor's degree, the A.A.B. or A.A.S. degree or the A.T.S. degree (not Individualized Program major). Students declared only in the A.A. or A.S. degree or the A.T.S. degree in Individualized Program may not declare a minor. Students may not pursue a minor and a major in the same discipline.

### Minor Requirements

Code	Title	Credit Hours
Minor Electives, choose from the following (three or more subject areas):		18
ANTH 48425	ANCIENT MESOAMERICA	
ENG 21001	INTRODUCTION TO ETHNIC LITERATURE OF THE UNITED STATES (DIVD)	
GEOG 37084	GEOGRAPHY OF SOUTH AMERICA (DIVG)	
GEOG 37085	GEOGRAPHY OF LATIN AMERICA AND THE CARIBBEAN (DIVG)	
HIST 31140	MODERN LATIN AMERICA (DIVG)	
HIST 31141	EARLY LATIN AMERICA	
CRIM 37311	MINORITIES IN CRIME AND JUSTICE (DIVD)	
MCLS 28404	THE LATIN AMERICAN EXPERIENCE (DIVG)	
PAS 24407	CARIBBEAN STUDIES (DIVG)	
POL 30550	LATIN AMERICAN POLITICS (DIVG)	
SOC 32569	MINORITIES IN THE UNITED STATES (DIVD)	
SPAN 38334	EARLY SPANISH-AMERICAN LITERATURE (ELR) (WIC) <sup>1</sup>	
SPAN 38335	RECENT SPANISH-AMERICAN LITERATURE (ELR) (WIC) <sup>1</sup>	
SPAN 38424	CULTURE AND CIVILIZATION OF LATIN AMERICA <sup>1</sup>	
SPAN 48216	CONTEMPORARY HISPANIC CULTURE <sup>1</sup>	
SPAN 48376	CONTEMPORARY SPANISH-AMERICAN SHORT STORY <sup>1</sup>	



SPAN 48378 U.S. LATINA/O WRITERS <sup>1</sup>

Minimum Total Credit Hours: 18

<sup>1</sup> Courses are taught in Spanish. Students must meet the prerequisites prior to enrolling.

## Graduation Requirements

Minimum Minor GPA	Minimum Overall GPA
2.000	2.000

- Students must complete at least two upper-division (30000 or 40000 level) courses in the minor at Kent State on a graded basis (A-F).
- Minimum 6 credit hours in the minor must be upper-division coursework (30000 and 40000 level).
- Minimum 6 credit hours in the minor must be outside of the course requirements for any major or other minor the student is pursuing.
- Minimum 50 percent of the total credit hours for the minor must be taken at Kent State (in residence).

## Liberal Studies - L.S.M.

### College of Arts and Sciences

Center for Comparative and Integrative Programs

105 Bowman Hall

Kent Campus

330-672-2062

www.kent.edu/ccip

## Description

The Master of Liberal Studies degree provides students with a unique opportunity to study at the graduate level in fields that are of interest and use to them. Under the guidance of the program's director, students select courses from across disciplines in the the university to form their own individualized and integrated program of study.

### Fully Offered At:

- Online
- Kent Campus

## Admission Requirements

- Bachelor's degree from an accredited college or university for unconditional admission
- Minimum 3.000 undergraduate GPA on a 4.000 point scale for unconditional admission
- Official transcript(s)
- Goal statement
- Three letters of recommendation
- English language proficiency - all international students must provide proof of English language proficiency (unless they meet specific exceptions) by earning one of the following:
  - Minimum 610 TOEFL PBT score (paper-based version)
  - Minimum 102 TOEFL IBT score (Internet-based version)
  - Minimum 86 MELAB score
  - Minimum 7.5 IELTS score

- Minimum 73 PTE score
- Minimum 130 Duolingo English Test score

For more information about graduate admissions, please visit the Graduate Studies admission website. For more information on international admission, visit the Office of Global Education's admission website.

## Program Learning Outcomes

Graduates of this program will be able to:

1. Bring together the different fields in which they have been working
2. See the advantages of doing so.
3. Continue to pursue the knowledge they entered the program to acquire.

## Program Requirements

### Major Requirements

Code	Title	Credit Hours
<b>Major Requirements</b>		
AS 61098	LIBERAL STUDIES ESSAY	3
or AS 60092	INTERNSHIP	
Electives <sup>1</sup>		27
Minimum Total Credit Hours:		30

<sup>1</sup> Of the 27 credit hours of electives, students must select 12-15 credit hours of courses from a single department/school or program and 12-15 credit hours of courses from at least one other departments/schools or program. In addition to standard classroom courses, a maximum 3 credit hours of internship/practicum and 3 credit hours of research may be selected. Courses may be taken in any college in the university.

## Graduation Requirements

- Minimum 15 credit hours must be at the 60000-level (which includes AS 61001 and AS 61098). Some graduate courses may require prerequisites.
- Students will complete a program of study document in which they will develop a theme (title) and choose coursework in the major and minor areas. In developing a program of study, students must adhere to several fundamental principles that the program of study must (1) emphasize interdisciplinary perspectives to learning and (b) be integrated.

## Paralegal Studies - B.A.

### College of Arts and Sciences

Center for Comparative and Integrative Programs

105 Bowman Hall

Kent Campus

330-672-2062

www.kent.edu/ccip

## Description

The Bachelor of Arts degree in Paralegal Studies combines a liberal arts background with law-related specialty courses to provide students with communication, critical reasoning and analytical skills; knowledge of the legal system; and practical hands-on experience.

The program prepares students for the Certified Paralegal exam from the National Association of Legal Assistants. Paralegals may not provide legal services directly to the public except as permitted by law.

For more information visit the Paralegal Studies office located in 113 Bowman Hall (Kent Campus); 330-672-4148; [www.kent.edu/paralegal](http://www.kent.edu/paralegal).

### Fully Offered At:

- Kent Campus

## Accreditation

The B.A. degree in Paralegal Studies is approved by the American Bar Association (ABA).

## Admission Requirements

The university affirmatively strives to provide educational opportunities and access to students with varied backgrounds, those with special talents and adult students who graduated from high school three or more years ago.

**Freshman Students on the Kent Campus:** The freshman admission policy on the Kent Campus is selective. Admission decisions are based upon the following: cumulative grade point average, ACT and/or SAT scores, strength of high school college preparatory curriculum and grade trends. The Admissions Office at the Kent Campus may defer the admission of students who do not meet admissions criteria but who demonstrate areas of promise for successful college study. Deferred applicants may begin their college coursework at one of seven regional campuses of Kent State University. For more information on admissions, including additional requirements for some academic programs, visit the admissions website for new freshmen.

**Freshman Students on the Regional Campuses:** Kent State campuses at Ashtabula, East Liverpool, Geauga, Salem, Stark, Trumbull and Tuscarawas, as well as the Regional Academic Center in Twinsburg, have open enrollment admission for students who hold a high school diploma, GED or equivalent.

**English Language Proficiency Requirements for International Students:** All international students must provide proof of English language proficiency (unless they meet specific exceptions) by earning a minimum 525 TOEFL score (71 on the Internet-based version), minimum 75 MELAB score, minimum 6.0 IELTS score or minimum 48 PTE score, or by completing the ESL level 112 Intensive Program. For more information on international admission, visit the Office of Global Education's admission website.

**Transfer, Transitioning and Former Students:** For more information about admission criteria for transfer, transitioning and former students, please visit the admissions website.

## Program Learning Outcomes

Graduates of this program will be able to:

1. Analyze a legal problem as well as identify and evaluate alternative solutions.
2. Formulate logical solutions to problems and construct logical arguments in support of specific positions as well as evaluate solutions and arguments.
3. Determine which areas of law are relevant to a particular situation.
4. Apply principles of professional ethics to specific factual situations.
5. Identify interrelationships among cases, statutes, regulations, and other legal authorities.
6. Apply recognized legal authority to a specific factual situation.
7. Analyze factual situations to determine when it is appropriate to apply exceptions to general legal rules.
8. Apply exceptions to general legal rules.
9. Distinguish evidentiary facts from other material and/or controlling facts.
10. Identify factual omissions and inconsistencies.

## University Requirements

All students in a bachelor's degree program at Kent State University must complete the following university requirements for graduation.

**NOTE:** University requirements may be fulfilled in this program by specific course requirements. Please see Program Requirements for details.

Destination Kent State: First Year Experience	1
Course is not required for students with 25 transfer credits, excluding College Credit Plus, or age 21+ at time of admission.	
Diversity Domestic/Global (DIVD/DIVG)	2 courses
Students must successfully complete one domestic and one global course, of which one must be from the Kent Core.	
Experiential Learning Requirement (ELR)	varies
Students must successfully complete one course or approved experience.	
Kent Core (see table below)	36-37
Writing-Intensive Course (WIC)	1 course
Students must earn a minimum C grade in the course.	
Upper-Division Requirement	39 (or 42)
Students must successfully complete 39 upper-division (numbered 30000 to 49999) credit hours to graduate. Students in a B.A. and/or B.S. degree in the College of Arts and Sciences must complete 42 upper-division credit hours.	
Total Credit Hour Requirement	120
Some bachelor's degrees require students to complete more than 120 credit hours.	

## Kent Core Requirements

Kent Core Composition (KCMP)	6
Kent Core Mathematics and Critical Reasoning (KMCR)	3
Kent Core Humanities and Fine Arts (KHUM/KFA) (min one course each)	9
Kent Core Social Sciences (KSS) (must be from two disciplines)	6
Kent Core Basic Sciences (KBS/KLAB) (must include one laboratory)	6-7
Kent Core Additional (KADL)	6
<b>Total Credit Hours:</b>	<b>36-37</b>

## Program Requirements

### Major Requirements

Code	Title	Credit Hours
<b>Major Requirements (courses count in major GPA)</b>		
PLST 18000	INTRODUCTION TO PARALEGAL STUDIES AND PROFESSIONAL ETHICS	3
PLST 28001	LEGAL RESEARCH AND WRITING	3
PLST 28004	PRINCIPLES AND PRACTICE OF LITIGATION	3
PLST 36792	INTERNSHIP IN PARALEGAL (ELR) <sup>1</sup>	6
PLST 38006	APPLIED LEGAL RESEARCH AND LITIGATION (WIC) <sup>2</sup>	3
Legal Specialty Electives, choose from the following:		24
PLST 28003	FAMILY LAW AND PROCEDURE	
PLST 28007	ESTATE AND PROBATE ADMINISTRATION	
PLST 35001	ENVIRONMENTAL LAW FOR PARALEGALS	
PLST 35003	HEALTH LAW	
PLST 35005	LABOR AND EMPLOYMENT LAW FOR PARALEGALS	
PLST 35007	ENERGY AND NATURAL RESOURCES LAW	
PLST 38003	ADMINISTRATIVE LAW AND PROCESS	
PLST 38005	TORT LAW	
PLST 42701	EVIDENCE AND E-DISCOVERY	
PLST 42705	BANKRUPTCY LAW I: BASIC FUNDAMENTALS	
PLST 42706	BANKRUPTCY LAW II: CREDITOR-DEBTOR RELATIONS	
PLST 42708	REAL ESTATE LAW	
PLST 48002	CONTRACT LAW	
PLST 48300	LAW OF CORPORATIONS AND OTHER ASSOCIATIONS	
PLST 48401	PATENT LAW	
PLST 48403	PATENT PROSECUTION	
PLST 48404	COPYRIGHT LAW I	
PLST 48407	TRADEMARK LAW	
PLST 48408	TRADEMARK PROSECUTION	
<b>Additional Requirements (courses do not count in major GPA)</b>		
UC 10097	DESTINATION KENT STATE: FIRST YEAR EXPERIENCE	1
Foreign Language (see Foreign Language College Requirement below)		14-16
Kent Core Composition		6
Kent Core Mathematics and Critical Reasoning		3
Kent Core Humanities and Fine Arts (minimum one course from each)		9
Kent Core Social Sciences (must be from two disciplines)		6
Kent Core Basic Sciences (must include one laboratory)		6-7
Kent Core Additional		6
College General Requirement (must be from Kent Core Basic Sciences) <sup>3</sup>		3
College General Requirement (must be from Kent Core Social Sciences) <sup>4</sup>		3
General Electives (total credit hours depends on earning 120 credit hours, including 42 upper-division credit hours)		21
Minimum Total Credit Hours:		120

<sup>1</sup> Although required minimum hours for internship is 6 credit hours, it is recommended that students enroll in more than one internship.

<sup>2</sup> A minimum C grade must be earned to fulfill the writing-intensive requirement.

<sup>3</sup> One additional course taken from the Kent Core Basic Science courses in the following Arts and Sciences disciplines: Anthropology (ANTH), Biological Sciences (BSCI), Chemistry (CHEM), Geography (GEOG), Geology (GEOL) or Physics (PHY). The course may not be from the student's major.

<sup>4</sup> One additional course taken from the Kent Core Social Sciences courses in the following Arts and Sciences disciplines: Anthropology (ANTH), Geography (GEOG), Criminology and Justice Studies (CRIM), Peace and Conflict Studies (PACS), Political Science (POL), Psychology (PSYC) or Sociology (SOC). The course may not be from the student's major.

### Graduation Requirements

Minimum Major GPA	Minimum Overall GPA
2.000	2.000

### Foreign Language College Requirement

Students pursuing the Bachelor of Arts degree in the College of Arts and Sciences must complete 14-16 credit hours of foreign language.<sup>1</sup>

To complete the requirement, students have the equivalent of Elementary I and II in any language, plus one of the following options:

- Intermediate I and II of the same language<sup>2</sup>
- Elementary I and II of a second language
- Any combination of two courses from the following list:

- Intermediate I of the same language
- MCLS 10001 INTRODUCTION TO STRUCTURAL CONCEPTS FOR LANGUAGE STUDENTS
- MCLS 20091 VARIABLE CONTENT SEMINAR IN GLOBAL LITERACY: CASE STUDIES
- MCLS 21417 MULTICULTURALISM IN TODAY'S GERMANY (DIVG)
- MCLS 28404 THE LATIN AMERICAN EXPERIENCE (DIVG)

<sup>1</sup> All students with prior foreign language experience should take the foreign language placement test to determine the appropriate level at which to start. Some students may begin beyond the Elementary I level and will complete the requirement with fewer credit hours and fewer courses. This may be accomplished by (1) passing a course beyond Elementary I through Intermediate II level; (2) receiving credit through Credit by Exam (CBE), Advanced Placement (AP), International Baccalaureate (IB) or College Level Examination Program (CLEP); or (3) being designated a 'native speaker' of a non-English language (consult with the College of Arts and Sciences Advising Office for additional information). When students complete the requirement with fewer than 14 credit hours and four courses, they will complete remaining credit hours with general electives.

<sup>2</sup> Certain majors, concentrations and minors may require specific languages, limit the languages from which a student may choose or require coursework through Intermediate II. Students who plan to pursue graduate study may need particular language coursework.

## Roadmap

This roadmap is a recommended semester-by-semester plan of study for this major. However, courses designated as critical (!) must be completed in the semester listed to ensure a timely graduation.

Semester One		Credits
PLST 18000	INTRODUCTION TO PARALEGAL STUDIES AND PROFESSIONAL ETHICS	3
UC 10097	DESTINATION KENT STATE: FIRST YEAR EXPERIENCE	1
Foreign Language		4
Kent Core Requirement		3
Kent Core Requirement		3
Credit Hours		14
Semester Two		Credits
PLST 28004	PRINCIPLES AND PRACTICE OF LITIGATION	3
Foreign Language		4
Kent Core Requirement		3
Kent Core Requirement		3
Kent Core Requirement		3
Credit Hours		16
Semester Three		Credits
PLST 28001	LEGAL RESEARCH AND WRITING	3
Legal Specialty Electives		6
Kent Core Requirement		3
Foreign Language		3
Credit Hours		15
Semester Four		Credits
PLST 38006	APPLIED LEGAL RESEARCH AND LITIGATION (WIC)	3
Legal Specialty Electives		6
Foreign Language		3
Kent Core Requirement		3
Credit Hours		15
Semester Five		Credits
Legal Specialty Electives		6
Kent Core Requirement		3
Kent Core Requirement		3
Kent Core Requirement		3
Credit Hours		15
Semester Six		Credits
Legal Specialty Electives		6
College General Requirement		3
Kent Core Requirement		3
Kent Core Requirement		3
Credit Hours		15
Semester Seven		Credits
! PLST 36792	INTERNSHIP IN PARALEGAL (ELR)	3
College General Requirements		3
General Electives		9
Credit Hours		15
Semester Eight		Credits
! PLST 36792	INTERNSHIP IN PARALEGAL (ELR)	3
General Electives		12
Credit Hours		15
Minimum Total Credit Hours:		120

## Paralegal Studies - Minor

### College of Arts and Sciences

Center for Comparative and Integrative Programs

105 Bowman Hall

Kent Campus

330-672-2062

[www.kent.edu/ccip](http://www.kent.edu/ccip)

## Description

The Paralegal Studies minor provides the foundation for students to pursue the paralegal field. A paralegal is employed by a law office, corporate legal department or public entity to perform substantive legal work under the supervision of a lawyer. Paralegals conduct legal research, maintain and organize files and draft legal documents. Paralegals also work with clients and witnesses in preparing cases for trial.

The program prepares students for the Certified Paralegal exam from the National Association of Legal Assistants. A paralegal is not a lawyer and may not give legal advice, accept cases, argue in court or set fees.

For more information, visit the Paralegal Studies office located in 113 Bowman Hall (Kent Campus); 330-672-4148; [www.kent.edu/paralegal](http://www.kent.edu/paralegal).

## Fully Offered At:

- Kent Campus

## Accreditation

The Paralegal Studies minor is approved by the American Bar Association (ABA).

## Admission Requirements

Admission to a minor is open to students declared in a bachelor's degree, the A.A.B. or A.A.S. degree or the A.T.S. degree (not Individualized Program major). Students declared only in the A.A. or A.S. degree or the A.T.S. degree in Individualized Program may not declare a minor. Students may not pursue a minor and a major in the same discipline.

## Minor Requirements

Code	Title	Credit Hours
<b>Minor Requirements</b>		
PLST 18000	INTRODUCTION TO PARALEGAL STUDIES AND PROFESSIONAL ETHICS	3
PLST 28001	LEGAL RESEARCH AND WRITING	3
PLST 28004	PRINCIPLES AND PRACTICE OF LITIGATION	3
PLST 36792	INTERNSHIP IN PARALEGAL (ELR)	3
Minor Electives, choose from the following: <sup>1</sup>		18
PLST 28003	FAMILY LAW AND PROCEDURE	
PLST 28007	ESTATE AND PROBATE ADMINISTRATION	
PLST 35001	ENVIRONMENTAL LAW FOR PARALEGALS	
PLST 35003	HEALTH LAW	
PLST 35005	LABOR AND EMPLOYMENT LAW FOR PARALEGALS	
PLST 35007	ENERGY AND NATURAL RESOURCES LAW	
PLST 38003	ADMINISTRATIVE LAW AND PROCESS	
PLST 38005	TORT LAW	

PLST 38006	APPLIED LEGAL RESEARCH AND LITIGATION (WIC)
PLST 42701	EVIDENCE AND E-DISCOVERY
PLST 42705	BANKRUPTCY LAW I: BASIC FUNDAMENTALS
PLST 42706	BANKRUPTCY LAW II: CREDITOR-DEBTOR RELATIONS
PLST 42708	REAL ESTATE LAW
PLST 48002	CONTRACT LAW
PLST 48300	LAW OF CORPORATIONS AND OTHER ASSOCIATIONS
PLST 48401	PATENT LAW
PLST 48403	PATENT PROSECUTION
PLST 48404	COPYRIGHT LAW I
PLST 48407	TRADEMARK LAW
PLST 48408	TRADEMARK PROSECUTION

Minimum Total Credit Hours: 30

- <sup>1</sup> Minimum 6 credit hours of the electives must be upper-division (30000 or 40000 level).

## Graduation Requirements

Minimum Minor GPA	Minimum Overall GPA
2.000	2.000

- Students must complete at least two upper-division (30000 or 40000 level) courses in the minor at Kent State on a graded basis (A-F).
- Minimum 6 credit hours in the minor must be upper-division coursework (30000 and 40000 level).
- Minimum 6 credit hours in the minor must be outside of the course requirements for any major or other minor the student is pursuing.
- Minimum 50 percent of the total credit hours for the minor must be taken at Kent State (in residence).

## Paralegal Studies - Undergraduate Certificate

### College of Arts and Sciences

Center for Comparative and Integrative Programs  
105 Bowman Hall  
Kent Campus  
330-672-2062  
www.kent.edu/ccip

## Description

The Paralegal Studies undergraduate certificate is applicable to those students who wish to continue their education and enhance and update their skills to pursue a career in the legal field.

The program prepares students for the Certified Paralegal exam from the National Association of Legal Assistants. Paralegals may not provide legal services directly to the public except as permitted by law.

For more information about the certificate, visit the Paralegal Studies office located in 113 Bowman Hall (Kent Campus); 330-672-4148; www.kent.edu/paralegal.

## Fully Offered At:

- Kent Campus

## Accreditation

The Paralegal Studies certificate is approved by the American Bar Association (ABA).

## Admission Requirements

- Bachelor's degree from an accredited college or university
- Minimum 2.000 undergraduate GPA on a 4.000 point scale
- Official transcript(s)

## Program Requirements

### Certificate Requirements

Code	Title	Credit Hours
<b>Certificate Requirements</b>		
PLST 18000	INTRODUCTION TO PARALEGAL STUDIES AND PROFESSIONAL ETHICS	3
PLST 28001	LEGAL RESEARCH AND WRITING	3
PLST 28004	PRINCIPLES AND PRACTICE OF LITIGATION	3
PLST 36792	INTERNSHIP IN PARALEGAL (ELR)	3
Certificate Electives, choose from the following:		18
PLST 28003	FAMILY LAW AND PROCEDURE	
PLST 28007	ESTATE AND PROBATE ADMINISTRATION	
PLST 35001	ENVIRONMENTAL LAW FOR PARALEGALS	
PLST 35003	HEALTH LAW	
PLST 35005	LABOR AND EMPLOYMENT LAW FOR PARALEGALS	
PLST 35007	ENERGY AND NATURAL RESOURCES LAW	
PLST 38003	ADMINISTRATIVE LAW AND PROCESS	
PLST 38005	TORT LAW	
PLST 38006	APPLIED LEGAL RESEARCH AND LITIGATION (WIC)	
PLST 42701	EVIDENCE AND E-DISCOVERY	
PLST 42705	BANKRUPTCY LAW I: BASIC FUNDAMENTALS	
PLST 42706	BANKRUPTCY LAW II: CREDITOR-DEBTOR RELATIONS	
PLST 42708	REAL ESTATE LAW	
PLST 48002	CONTRACT LAW	
PLST 48300	LAW OF CORPORATIONS AND OTHER ASSOCIATIONS	
PLST 48401	PATENT LAW	
PLST 48403	PATENT PROSECUTION	
PLST 48404	COPYRIGHT LAW I	
PLST 48407	TRADEMARK LAW	
PLST 48408	TRADEMARK PROSECUTION	

Minimum Total Credit Hours: 30

## Graduation Requirements

Minimum Certificate GPA	Minimum Overall GPA
2.000	2.000



## Pre-Law Advising Program

### College of Arts and Sciences

Center for Comparative and Integrative Programs

105 Bowman Hall

Kent Campus

330-672-2062

[www.kent.edu/ccip](http://www.kent.edu/ccip)

## Description

The Pre-Law Advising Program is a non-degree, pre-professional program that provides students with an opportunity to prepare for further training in

law school after completing their undergraduate degree. Students take courses that prepare them for the Law School Admission Test (LSAT) and coursework in law school.

The College of Arts and Sciences offers advising non-degree programs for students who wish to pursue professional careers in a variety of fields, including medicine, osteopathy, dentistry, pharmacy and veterinary medicine. The curriculum in the pre-law program is designed to prepare students for advanced, professional study by providing a sound basis in philosophy, sociology/criminology, political science, and legal studies. Students who wish to pursue a law degree would be well advised to check carefully the admissions requirements of the professional law school they wish to enter. Students should also seek advice regularly from their faculty advisors.

### Fully Offered At:

- Kent Campus

## Admission Requirements

Students must be admitted to a bachelor's degree program in the university to declare this non-degree advising program. The purpose of the Pre-Law Program is to augment a student's work in their declared major program.

## Program Requirements

### Pre-Professional Requirements

Code	Title	Credit Hours
<b>Pre-Professional Requirements</b>		
PHIL 11009	CRITICAL THINKING (KADL)	3
PLST 28001	LEGAL RESEARCH AND WRITING	3
PLST 28004	PRINCIPLES AND PRACTICE OF LITIGATION	3
PHIL 41025	PHILOSOPHY OF LAW	3
Law, Society and Justice Electives, choose from the following:		9
CRIM 33200	CRIMINAL LAW	
CRIM 46200	ADVANCED CRIMINAL AND LEGAL ISSUES	
CRIM 47211	COURT FUNCTIONS	
PHIL 31035	PHILOSOPHY AND JUSTICE (DIVD)	
POL 30100	AMERICAN POLITICAL THEORY	
POL 30130	THE JUDICIAL PROCESS	
POL 40182	CONSTITUTIONAL LAW: GOVERNMENTAL STRUCTURES AND FUNCTIONS	
POL 40183	CONSTITUTIONAL LAW: CIVIL RIGHTS AND LIBERTIES (DIVD)	

SOC 32762	DEVIANT BEHAVIOR	
Legal Practice Electives, choose from the following:		9
CRIM 34200	CRIMINAL PROCEDURES AND EVIDENCE	
PACS 41010	RECONCILIATION VERSUS REVENGE: TRANSITIONAL JUSTICE (DIVG) (WIC)	
PACS 44040	NEGOTIATION	
PACS 48080	MEDIATION: THEORY AND TRAINING	
PLST 38005	TORT LAW	
PLST 48002	CONTRACT LAW	
PLST 42701	EVIDENCE AND E-DISCOVERY	
PLST 42708	REAL ESTATE LAW	

Minimum Total Credit Hours: 30

## PROGRAM NOTES

It is recommended that students pursuing the Pre-Law program give strong consideration to the following courses in fulfillment of the Kent Core and/or college general requirements:

- In the humanities and fine arts category: COMM 15000, COMM 26000.
- In the social sciences category: CRIM 12000, CRIM 26704, POL 10100.

Students are strongly encouraged to consider prerequisites of advanced courses in the Pre-Law program as they select their Kent Core courses and/or college general requirements.

## Pre-Professional Information

- Students must complete at least twenty-one upper-division (30000 or 40000 level) courses in the Pre-Law program at Kent State on a graded basis (A-F).
- Minimum so percent of the total credit hours for the concentration must be taken at Kent State (in residence).

## Religion Studies - Minor

### College of Arts and Sciences

Center for Comparative and Integrative Programs

105 Bowman Hall

Kent Campus

330-672-2062

[www.kent.edu/ccip](http://www.kent.edu/ccip)

## Description

The Religion Studies minor provides students the opportunity to study religion by means of a diversity of academic disciplinary approaches in relation to religious thought and practice evident in the diversity of religions and religious phenomena in the world. The curriculum prepares students for critical inquiry in religion with advanced course work drawn from a variety of disciplines in the humanities, social sciences and the arts.

### Fully Offered At:

- Kent Campus

## Admission Requirements

Admission to a minor is open to students declared in a bachelor's degree, the A.A.B. or A.A.S. degree or the A.T.S. degree (not Individualized Program major). Students declared only in the A.A. or A.S. degree or the A.T.S. degree in Individualized Program may not declare a minor. Students may not pursue a minor and a major in the same discipline.

## Minor Requirements

Code	Title	Credit Hours
<b>Minor Requirements</b>		
REL 11020	INTRODUCTION TO WORLD RELIGIONS (DIVG) (ELR) (KHUM)	3
or REL 21021	MOSES, JESUS AND MOHAMMAD (DIVG) (ELR) (KHUM)	
Comparative Religion Electives, choose from the following:		6
REL 31065	COMPARATIVE RELIGIOUS EXPERIENCE	
REL 31091	SEMINAR: RELIGION IN THE MODERN WORLD	
REL 41091	SEMINAR IN ADVANCED COMPARATIVE RELIGION	
Disciplinary Approach Electives, choose from the following:		3
ANTH 48150	RELIGION: A SEARCH FOR A MEANING	
PACS 32030	INTERNATIONAL CONFLICT RESOLUTION (DIVG)	
PACS 32040	CROSS-CULTURAL CONFLICT MANAGEMENT (DIVG)	
PACS 41010	RECONCILIATION VERSUS REVENGE: TRANSITIONAL JUSTICE (DIVG) (WIC)	
PHIL 31075	PHILOSOPHY AND CULTURE (DIVG)	
SOC 42561	SOCIOLOGY OF RELIGION	
Minor Electives, choose from the following:		6
ANTH 48150	RELIGION: A SEARCH FOR A MEANING	
ARAB 41301	ARABIC CULTURE	
ARTH 22006	ART HISTORY: ANCIENT AND MEDIEVAL ART (KFA)	
ARTH 22007	ART HISTORY: RENAISSANCE TO MODERN ART (KFA)	
ARTH 42025	ART OF WEST AFRICA (DIVG)	
ARTH 42026	ART OF NIGERIA (DIVG)	
ARTH 42027	ART OF CENTRAL AFRICA (DIVG)	
ARTH 42031	GREEK ARCHAEOLOGY AND ART	
or CLAS 41401	GREEK ARCHAEOLOGY AND ART	
ARTH 42032	ROMAN ARCHAEOLOGY AND ART	
or CLAS 41402	ROMAN ARCHAEOLOGY AND ART	
ARTH 42036	MEDIEVAL ART	
ARTH 42039	GOTHIC ART, 12TH TO 15TH CENTURIES	
ARTH 42041	ITALIAN RENAISSANCE ART	
ARTH 42042	NORTHERN RENAISSANCE ART	
CLAS 21405	THE ROMAN ACHIEVEMENT (DIVG) (KHUM)	
CLAS 41301	CLASSICAL MYTHOLOGY	
CLAS 41404	ANCIENT CHRISTIANITIES	
ENG 34041	FAIRY TALES	
ENG 35201	THE BIBLE AS LITERATURE	
GEOG 22040	INTRODUCTION TO GLOBAL TOURISM (DIVG)	
GEOG 22061	HUMAN GEOGRAPHY (DIVG) (KSS)	
HIST 31031	THE PROTESTANT AND CATHOLIC REFORMATIONS	
HIST 31112	CHINESE CIVILIZATION	

HIST 31127	ANCIENT AND EARLY MEDIEVAL JEWISH HISTORY
HIST 31130	HISTORY OF PRE-COLONIAL AFRICA TO 1880
HIST 41071	AMERICAN SOCIAL AND INTELLECTUAL HISTORY, 1876-PRESENT (DIVD)
HIST 41129	THE HOLOCAUST: THE DESTRUCTION OF EUROPEAN JEWRY, 1938-1945
JWST 11001	INTRODUCTION TO JEWISH STUDIES
PACS 32030	INTERNATIONAL CONFLICT RESOLUTION (DIVG)
PACS 32040	CROSS-CULTURAL CONFLICT MANAGEMENT (DIVG)
PACS 41010	RECONCILIATION VERSUS REVENGE: TRANSITIONAL JUSTICE (DIVG) (WIC)
PAS 15200	INTRODUCTION TO WEST AFRICAN CULTURES
PAS 23310	NATIVE AMERICAN STUDIES
PAS 25200	EAST AFRICAN-KISWAHILI CULTURES
PAS 34000	INTRODUCTION TO AFRICAN WORLD VIEW (DIVG)
PAS 34100	ISLAMIC WEST AFRICA
PAS 43200	MALCOLM AND MARTIN
PHIL 31001	ANCIENT GREEK PHILOSOPHY (WIC)
PHIL 31002	MEDIEVAL PHILOSOPHY (WIC)
PHIL 31072	AMERICAN INDIAN PHILOSOPHIES (DIVD)
PHIL 41010	PROBLEMS IN THE PHILOSOPHY OF RELIGION
PHIL 41091	SEMINAR IN WORLD PHILOSOPHY
PHIL 41491	SEMINAR IN ASIAN PHILOSOPHY (DIVG)
POL 10004	COMPARATIVE POLITICS (DIVG) (KSS)
POL 10500	WORLD POLITICS (DIVG) (KSS)
POL 30520	EUROPEAN POLITICS (DIVG)
POL 30530	ASIAN POLITICS (DIVG)
POL 30540	AFRICAN POLITICS (DIVG)
POL 30550	LATIN AMERICAN POLITICS (DIVG)
POL 30560	MIDDLE EAST POLITICS (DIVG)
REL 11020	INTRODUCTION TO WORLD RELIGIONS (DIVG) (ELR) (KHUM) <sup>1</sup>
REL 12020	INTRODUCTION TO NEW TESTAMENT LITERATURE
REL 21021	MOSES, JESUS AND MOHAMMAD (DIVG) (ELR) (KHUM) <sup>1</sup>
REL 31065	COMPARATIVE RELIGIOUS EXPERIENCE <sup>1</sup>
REL 31075	RELIGION AND WOMEN
REL 31091	SEMINAR: RELIGION IN THE MODERN WORLD <sup>1</sup>
REL 41010	RELIGION VIOLENCE AND TERROR
REL 41091	SEMINAR IN ADVANCED COMPARATIVE RELIGION <sup>1</sup>
SOC 42561	SOCIOLOGY OF RELIGION

Minimum Total Credit Hours:

18

<sup>1</sup> Courses can only be applied to minor requirements once. These courses may not be selected as electives if chosen to fulfill a requirement listed above.

## Graduation Requirements

Minimum Minor GPA	Minimum Overall GPA
2.000	2.000

- Students must complete at least two upper-division (30000 or 40000 level) courses in the minor at Kent State on a graded basis (A-F).
- Minimum 6 credit hours in the minor must be upper-division coursework (30000 and 40000 level).
- Minimum 6 credit hours in the minor must be outside of the course requirements for any major or other minor the student is pursuing.
- Minimum 50 percent of the total credit hours for the minor must be taken at Kent State (in residence).

## Studies in Globalization, Identity and Space - Minor

### College of Arts and Sciences

Center for Comparative and Integrative Programs  
105 Bowman Hall  
Kent Campus  
330-672-2062  
www.kent.edu/ccip

## Description

The Globalization, Identity and Space minor is intended to promote students' awareness of the differences and similarities that characterize the world's increasingly interconnected communities. The interdisciplinary program is a cooperative endeavor of the departments of Anthropology, Geography and Pan-African Studies.

### Fully Offered At:

- Kent Campus

## Admission Requirements

Admission to a minor is open to students declared in a bachelor's degree, the A.A.B. or A.A.S. degree or the A.T.S. degree (not Individualized Program major). Students declared only in the A.A. or A.S. degree or the A.T.S. degree in Individualized Program may not declare a minor. Students may not pursue a minor and a major in the same discipline.

## Minor Requirements

Code	Title	Credit Hours
<b>Minor Requirements</b>		
ANTH 18210	GLOBAL CULTURAL DIVERSITY: ANTHROPOLOGICAL PERSPECTIVES (DIVG) (KSS)	3
GEOG 22061	HUMAN GEOGRAPHY (DIVG) (KSS)	3
PAS 15200	INTRODUCTION TO WEST AFRICAN CULTURES	3
Minor Electives, choose from the following (minimum two disciplines): <sup>1</sup>		12
ANTH 48150	RELIGION: A SEARCH FOR A MEANING	
ANTH 48212	KINSHIP AND SOCIAL ORGANIZATION (DIVG)	
ANTH 48214	POLITICS OF CULTURE (ELR) (WIC)	
ANTH 48220	CULTURAL ECOLOGY AND SUSTAINABILITY	
ANTH 48250	MEDICAL ANTHROPOLOGY (DIVG)	
ANTH 48630	PACIFIC ISLAND CULTURES (DIVG)	
GEOG 17063	WORLD GEOGRAPHY (DIVG) (KSS)	
GEOG 31070	POPULATION AND THE ENVIRONMENT	
GEOG 32080	POLITICS AND PLACE (DIVG)	

GEOG 37040	GEOGRAPHY OF AFRICA (DIVG)
GEOG 37050	GEOGRAPHY OF RUSSIA AND THE COMMONWEALTH OF INDEPENDENT STATES (DIVG)
GEOG 37066	GEOGRAPHY OF EUROPE (DIVG)
GEOG 37070	GEOGRAPHY OF EAST AND SOUTHEAST ASIA (DIVG)
GEOG 37084	GEOGRAPHY OF SOUTH AMERICA (DIVG)
GEOG 37085	GEOGRAPHY OF LATIN AMERICA AND THE CARIBBEAN (DIVG)
PAS 32050	AFRICAN LITERATURES (DIVG)
PAS 33130	GENDER AND SEXUALITY IN AFRICA AND THE AFRICAN DIASPORA
PAS 35200	AFRICAN SOCIAL AND POLITICAL SYSTEMS
PAS 37100	PAN-AFRICAN WOMEN'S LITERATURE (DIVG)

Minimum Total Credit Hours: 21

<sup>1</sup> Students may petition to substitute a relevant course in some discipline other than anthropology, geography or Pan-African studies for one of the designated electives.

## Graduation Requirements

Minimum Minor GPA	Minimum Overall GPA
2.000	2.000

- Students must complete at least two upper-division (30000 or 40000 level) courses in the minor at Kent State on a graded basis (A-F).
- Minimum 6 credit hours in the minor must be upper-division coursework (30000 and 40000 level).
- Minimum 6 credit hours in the minor must be outside of the course requirements for any major or other minor the student is pursuing.
- Minimum 50 percent of the total credit hours for the minor must be taken at Kent State (in residence).

## World Literature and Cultures - Minor

### College of Arts and Sciences

Center for Comparative and Integrative Programs  
105 Bowman Hall  
Kent Campus  
330-672-2062  
www.kent.edu/ccip

## Description

The World Literature and Cultures minor is dedicated to the interdisciplinary study of historical and contemporary literature, which is representative of a diversity of the world's cultures. Students explore world literature and cultures with the aid of a variety of disciplinary methods of analysis and interpretation in the study of cultural texts and artifacts, as well as the interactions of the political, economic, cultural and social complexities with literature. The study of world literature and cultures is devoted to promoting a central trend among major research universities in the United States to engage in the critical integration of knowledge that cuts across the different disciplines, with sustained focus on the global study of cultures and literature, past and present.

**Fully Offered At:**

- Kent Campus

**Admission Requirements**

Admission to a minor is open to students declared in a bachelor's degree, the A.A.B. or A.A.S. degree or the A.T.S. degree (not Individualized Program major). Students declared only in the A.A. or A.S. degree or the A.T.S. degree in Individualized Program may not declare a minor. Students may not pursue a minor and a major in the same discipline.

**Minor Requirements**

Code	Title	Credit Hours
<b>Minor Requirements</b>		
Minor Electives, choose from the following:		6
ANTH 18210	GLOBAL CULTURAL DIVERSITY: ANTHROPOLOGICAL PERSPECTIVES (DIVG) (KSS)	
ARTH 12001	ART AS A WORLD PHENOMENON (KFA)	
ARTH 22006	ART HISTORY: ANCIENT AND MEDIEVAL ART (KFA)	
ARTH 22007	ART HISTORY: RENAISSANCE TO MODERN ART (KFA)	
ARTH 22020	ART OF AFRICA, OCEANIA AND THE AMERICAS (DIVG) (KFA)	
CLAS 21404	THE GREEK ACHIEVEMENT (DIVG) (KHUM)	
CLAS 21405	THE ROMAN ACHIEVEMENT (DIVG) (KHUM)	
DAN 27076	DANCE AS AN ART FORM (DIVG) (KFA)	
GEOG 17063	WORLD GEOGRAPHY (DIVG) (KSS)	
GEOG 22061	HUMAN GEOGRAPHY (DIVG) (KSS)	
HIST 11050	WORLD HISTORY: ANCIENT AND MEDIEVAL (DIVG) (KHUM)	
HIST 11051	WORLD HISTORY: MODERN (DIVG) (KHUM)	
JWST 11001	INTRODUCTION TO JEWISH STUDIES	
JMC 20001	MEDIA, POWER AND CULTURE (DIVD) (KSS)	
MCLS 21417	MULTICULTURALISM IN TODAY'S GERMANY (DIVG)	
MCLS 28404	THE LATIN AMERICAN EXPERIENCE (DIVG)	
MUS 22111	THE UNDERSTANDING OF MUSIC (KFA)	
MUS 22121	MUSIC AS A WORLD PHENOMENON (DIVG) (KFA)	
PAS 20300	BLACK IMAGES	
PAS 22200	INTRODUCTION TO THE AFRICAN ARTS	
PAS 23310	NATIVE AMERICAN STUDIES	
PAS 24407	CARIBBEAN STUDIES (DIVG)	
PSYC 22221	MULTICULTURAL PSYCHOLOGY (DIVD)	
REL 11020	INTRODUCTION TO WORLD RELIGIONS (DIVG) (ELR) (KHUM)	
REL 21021	MOSES, JESUS AND MOHAMMAD (DIVG) (ELR) (KHUM)	
Courses from the Minor Upper-Division Electives		
Minor Upper-Division Electives, choose from the following:		12
ANTH 48150	RELIGION: A SEARCH FOR A MEANING	
ANTH 48212	KINSHIP AND SOCIAL ORGANIZATION (DIVG)	
ANTH 48230	SOCIO-CULTURAL CHANGE	
ANTH 48245	PSYCHOLOGICAL ANTHROPOLOGY (DIVG)	
ARAB 41301	ARABIC CULTURE	
ARTH 42031	GREEK ARCHAEOLOGY AND ART	

ARTH 42032	ROMAN ARCHAEOLOGY AND ART
ARTH 42041	ITALIAN RENAISSANCE ART
ARTH 42042	NORTHERN RENAISSANCE ART
ARTH 42051	EUROPEAN ART AND IDEAS: 1750-1900
CLAS 41301	CLASSICAL MYTHOLOGY
CLAS 41304	LITERATURE OF THE ROMAN WORLD (ELR) (WIC)
CLAS 41305	CLASSICAL LITERARY STUDIES
CLAS 41404	ANCIENT CHRISTIANITIES
CLAS 41503	LITERATURE OF THE ANCIENT GREEKS (ELR) (WIC)
COMM 35852	INTERCULTURAL COMMUNICATION (DIVG)
COMM 42000	MEDIA, WAR AND PROPAGANDA
COMM 45766	COMMUNICATION IN A GLOBAL SOCIETY
DAN 47063	DANCE HISTORY I
ENG 34011	WORLD LITERATURE IN ENGLISH (DIVG)
ENG 34041	FAIRY TALES
GEOG 32080	POLITICS AND PLACE (DIVG)
GEOG 42053	GEOGRAPHIES OF MEMORY AND HERITAGE
HIST 31053	MODERN EUROPE, 1815 TO PRESENT
HIST 31112	CHINESE CIVILIZATION
HIST 31130	HISTORY OF PRE-COLONIAL AFRICA TO 1880
HIST 31140	MODERN LATIN AMERICA (DIVG)
HIST 31141	EARLY LATIN AMERICA
JAPN 45421	JAPANESE CULTURE
MCLS 30420	FOREIGN LANGUAGES AND CULTURE STUDIES
MUS 42111	AFRICAN MUSIC AND CULTURES
MUS 42141	FOLK MUSIC OF EUROPE AND NORTH AMERICA
MUS 42151	ASIAN MUSICS
MUS 42181	POPULAR WORLD MUSIC (DIVG)
PACS 31003	NONVIOLENCE: THEORY AND PRACTICE
PACS 32030	INTERNATIONAL CONFLICT RESOLUTION (DIVG)
PACS 32040	CROSS-CULTURAL CONFLICT MANAGEMENT (DIVG)
PACS 41010	RECONCILIATION VERSUS REVENGE: TRANSITIONAL JUSTICE (DIVG) (WIC)
PAS 30010	AFRICAN AND AFRICAN-AMERICAN PHILOSOPHIES (DIVD)
PAS 32050	AFRICAN LITERATURES (DIVG)
PAS 33200	ANCIENT AFRICAN CIVILIZATIONS
PAS 34000	INTRODUCTION TO AFRICAN WORLD VIEW (DIVG)
PAS 35100	BLACK SOCIAL AND POLITICAL THOUGHT
PAS 37020	THE MODEL AFRICAN UNION (ELR)
PAS 37100	PAN-AFRICAN WOMEN'S LITERATURE (DIVG)
PHIL 31001	ANCIENT GREEK PHILOSOPHY (WIC)
PHIL 31002	MEDIEVAL PHILOSOPHY (WIC)
PHIL 31006	NINETEENTH-CENTURY PHILOSOPHY (WIC)
PHIL 31060	PHILOSOPHY OF ART AND BEAUTY (ELR)
PHIL 31072	AMERICAN INDIAN PHILOSOPHIES (DIVD)
PHIL 31075	PHILOSOPHY AND CULTURE (DIVG)
PSYC 31532	SOCIAL PSYCHOLOGY
PSYC 40461	PSYCHOLOGY OF LANGUAGE
REL 31065	COMPARATIVE RELIGIOUS EXPERIENCE
RUSS 32501	RUSSIAN LITERATURE IN ENGLISH
SOC 42559	CULTURE AND SOCIETY

SOC 42561	SOCIOLOGY OF RELIGION
WMST 30001	FEMINIST THEORY
Minimum Total Credit Hours:	
18	

## Graduation Requirements

Minimum Minor GPA	Minimum Overall GPA
2.000	2.000

- Students must complete at least two upper-division (30000 or 40000 level) courses in the minor at Kent State on a graded basis (A-F).
- Students may not select more than two courses from one subject area.
- Students must complete any prerequisites required for courses in this list.
- Minimum 6 credit hours in the minor must be upper-division coursework (30000 and 40000 level).
- Minimum 6 credit hours in the minor must be outside of the course requirements for any major or other minor the student is pursuing.
- Minimum 50 percent of the total credit hours for the minor must be taken at Kent State (in residence).

# Center for the Study of Gender and Sexuality

## College of Arts and Sciences

Center for the Study of Gender and Sexuality  
325 Merrill Hall  
Kent Campus  
330-672-0315  
www.kent.edu/csgrs

## Description

### Mission Statement

The mission of the Center for the Study of Gender and Sexuality is to advance the interdisciplinary scholarly exploration of gender and sexuality and to create and share knowledge with students, scholars and the public.

### Vision Statement

The study of gender and sexuality requires flexibility and interdisciplinary inquiry, therefore the Center for the Study of Gender and Sexuality will regularly assess its vision and structure, and will evolve accordingly. The Center for the Study of Gender and Sexuality will advance the scholarly exploration of gender and sexuality through four focus areas: Academic Programs, Public Scholarship, Research, and Student Academic Services.

### Academic Programs

The Center for the Study of Gender and Sexuality offers two minors; the Lesbian, Gay, Bisexual, Transgender and Queer Studies minor and the Women Studies minor

### Public Scholarship

Through committed community association, public engagement, educational programming, and relationships with the media, the Center for the Study of Gender and Sexuality will become a local, regional and national leader on the discourse and understanding of important

topics related to the gender and sexuality. Teaching and learning will extend beyond the Kent State University student population through a commitment to sharing knowledge, research and creative activities with the public.

### Research

The Center for the Study of Gender and Sexuality will foster interdisciplinary research and creative activities about gender and sexuality, support grant development and student scholarships and assistantships, and become a regional leader and nexus for sponsoring scholarly inquiry on gender and sexuality.

### Student Academic Support and Services

The Center for the Study of Gender and Sexuality will become an academic home for students at all Kent State campuses who are engaged in learning about gender and sexuality. It will collaborate with student support staff, offices and resources to ensure that program students from all campuses, colleges and schools have their advising and academic support needs met.

### Value Statement

The intellectual and scholarly work of the Center intersects with scholarly work about race, class, nationality, religion, immigrant status, ability and other identity markers. Because of this intersection, the Center is committed to forging relationships within and beyond Kent State University that uphold global human rights, economic equality, and ecological justice. The Center will engage in meaningful and progressive discourse about marginalized groups and intersecting identities with the goal of improving society. In addition, because social constructions of gender, gender identity, gender expression and sexual orientation frequently connect to social and structural violence, the Center faculty, staff and programs will work toward understanding and resisting state, societal and interpersonal coercion and violence.

## Minors

- Lesbian, Gay, Bisexual, Transgender and Queer Studies
- Women's Studies

## Center for the Study of Gender and Sexuality Faculty

- Holt, Suzanne L. (1984), Professor, Ph.D., Kent State University, 1994
- Merryman, Molly B. (1996), Associate Professor & Director, Ph.D., Bowling Green State University, 1995
- Vachon, Lauren (2012), Assistant Professor, M.F.A., Kent State University, 2013

## LGBTQ Studies (LGBT)

**LGBT 2020 INTRODUCTION TO LESBIAN, GAY, BISEXUAL, TRANSGENDER AND QUEER STUDIES 3 Credit Hours**

Introduction to the field of LGBTQ Studies as well as an introduction to critical issues in LGBTQ lives.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter



**LGBT 20095 SPECIAL TOPICS IN LGBTQ STUDIES 1-3 Credit Hours**  
(Repeatable for credit) Introduction to a current and specialized topic in LGBTQ studies.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 1-3 lecture

**Grade Mode:** Standard Letter

**LGBT 30095 SPECIAL TOPICS IN LGBTQ STUDIES 1-3 Credit Hours**  
(Repeatable for credit) Study of special topics related to LGBTQ Studies.

**Prerequisite:** LGBT 20020.

**Schedule Type:** Lecture

**Contact Hours:** 1-3 lecture

**Grade Mode:** Standard Letter

**LGBT 30196 INDIVIDUAL INVESTIGATION IN LGBTQ STUDIES 1-3 Credit Hours**

(Repeatable for credit) Individual investigation in areas of interest not covered in courses.

**Prerequisite:** Junior standing; and special approval.

**Schedule Type:** Individual Investigation

**Contact Hours:** 3-9 other

**Grade Mode:** Standard Letter

**LGBT 40095 SPECIAL TOPICS IN LGBTQ STUDIES 1-3 Credit Hours**

(Repeatable for credit) This course will provide new and emerging topics for students to study.

**Prerequisite:** LGBT 20020 or LGBT 41198.

**Schedule Type:** Lecture

**Contact Hours:** 1-3 lecture

**Grade Mode:** Standard Letter

**LGBT 40192 PRACTICUM IN LGBTQ STUDIES (ELR) 3-6 Credit Hours**

(Repeatable for credit) Guided study of various aspects of the LGBTQ experience through involvement in the community, government agencies, non-profits, educational institutions, and other areas.

**Prerequisite:** Special approval.

**Schedule Type:** Practical Experience

**Contact Hours:** 8-18 other

**Grade Mode:** Standard Letter

**Attributes:** Experiential Learning Requirement

**LGBT 40201 INTRODUCTION TO TRANSGENDER STUDIES 3 Credit Hours**

Serves as an introduction to transgender studies, which addresses theories, practices, laws and other cultural expressions of sexed embodiments, gender identity and gender expression.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**LGBT 40202 QUEER THEORY 3 Credit Hours**

Explores theories related to sexual orientation, gender expression and gender identity.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**LGBT 41198 LGBTQ RESEARCH METHODS (ELR) 3 Credit Hours**

Explores different qualitative and quantitative methodologies through applied research on LGBTQ-related topics.

**Prerequisite:** None.

**Schedule Type:** Lecture, Research

**Contact Hours:** 1 lecture, 2 other

**Grade Mode:** Standard Letter

**Attributes:** Experiential Learning Requirement

## Women's Studies (WMST)

**WMST 20095 SPECIAL TOPICS IN WOMEN'S STUDIES 1-5 Credit Hours**

(Repeatable for credit) Study of particular contemporary figures, events and social practices or phenomenon as they relate to women's studies.

This includes women and war, women and work and women and interpersonal violence.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 1-5 lecture

**Grade Mode:** Standard Letter

**WMST 20193 VARIABLE TITLE WORKSHOP IN WOMEN'S STUDIES**

**1-6 Credit Hours**

(Repeatable for credit) Workshop focused on a specific topic within women's studies.

**Prerequisite:** None.

**Schedule Type:** Workshop

**Contact Hours:** 1-6 other

**Grade Mode:** Satisfactory/Unsatisfactory

**WMST 30000 COLLOQUIUM IN WOMEN'S STUDIES (DIVD) 3 Credit Hours**

A critical investigation of the position and category of women from a cross-cultural, historical and interdisciplinary perspective, with special emphasis on major themes and issues in women's studies. Issues including race, ethnicity and sexuality are addressed.

**Prerequisite:** Junior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Diversity Domestic

**WMST 30001 FEMINIST THEORY 3 Credit Hours**

An examination of important historical and contemporary works of feminist theory and their influence on the development of feminist thought and practice in the United States and worldwide. Issues including race, ethnicity and sexuality are addressed.

**Prerequisite:** COMM 35912 or CRIM 37411 or ENG 21002 or ENG 33013 or ENG 33014 or GER 41332 or HIST 31075 or PAS 33110 or PAS 37100 or PAS 37200 or PHIL 31040 or POL 40470 or SOC 42315 or WMST 20095 or WMST 30000 or WMST 30095 or WMST 30100; and junior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**WMST 30095 SPECIAL TOPICS IN WOMEN'S STUDIES II 1-5 Credit Hours**

(Repeatable for credit) Study of selected topics in women's studies organized around historical and theoretical issues and movements. This includes contemporary feminist theory, suffragist movement and third wave feminism.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 1-5 lecture

**Grade Mode:** Standard Letter

**WMST 30100 HISTORY OF WOMEN IN THE UNITED STATES 3 Credit Hours**

(Cross-listed with HIST 31075) An exploration of the political, economic, social, intellectual and cultural forces that have shaped women's lives, women's thought, perceptions of womanhood and feminism, from 1607 to the present in what is now the United States.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**WMST 30196 WOMEN STUDIES INDIVIDUAL INVESTIGATION 1-3 Credit Hours**

(Repeatable for credit) The design and completion of a scholarly research project related to women's studies, and the presentation of findings at the end of the term. Arrangements must be made in the semester prior to registration.

**Prerequisite:** Special approval by instructor.

**Schedule Type:** Individual Investigation

**Contact Hours:** 3-9 other

**Grade Mode:** Standard Letter

**WMST 40095 SPECIAL TOPICS IN WOMEN'S STUDIES III 1-5 Credit Hours**

(Repeatable for credit) Informed study of critical issues in women's studies from an international or global perspective. Specific topic varies per course offering.

**Prerequisite:** WMST 30000 or WMST 30001.

**Schedule Type:** Lecture

**Contact Hours:** 1-5 lecture

**Grade Mode:** Standard Letter

**WMST 40193 VARIABLE TITLE WORKSHOP IN WOMEN'S STUDIES 1-6 Credit Hours**

(Repeatable for credit) Workshop focused on a specific topic within women's studies.

**Prerequisite:** None.

**Schedule Type:** Workshop

**Contact Hours:** 1-6 other

**Grade Mode:** Satisfactory/Unsatisfactory

**WMST 40992 PRACTICUM IN WOMEN'S STUDIES (ELR) 3 Credit Hours**

(Repeatable for credit) An assignment at a private, public or nonprofit organization that centers on women's issues such as education health and policy making. Arrangements must be made in the semester prior to registration.

**Prerequisite:** Special approval.

**Schedule Type:** Practical Experience

**Contact Hours:** 9 other

**Grade Mode:** Standard Letter

**Attributes:** Experiential Learning Requirement

## Lesbian, Gay, Bisexual, Transgender and Queer Studies - Minor

### College of Arts and Sciences

Center for the Study of Gender and Sexuality

325 Merrill Hall

Kent Campus

330-672-0315

www.kent.edu/csgrs

## Description

The Lesbian, Gay, Bisexual, Transgender and Queer Studies minor allows students to explore sexuality and sexual minorities from a variety of perspectives.

### Fully Offered At:

- Kent Campus
- Stark Campus

## Admission Requirements

Admission to a minor is open to students declared in a bachelor's degree, the A.A.B. or A.A.S. degree or the A.T.S. degree (not Individualized Program major). Students declared only in the A.A. or A.S. degree or the A.T.S. degree in Individualized Program may not declare a minor. Students may not pursue a minor and a major in the same discipline.

## Minor Requirements

[LGST]

Code	Title	Credit Hours
<b>Minor Requirements</b>		
LGBT 20020	INTRODUCTION TO LESBIAN, GAY, BISEXUAL, TRANSGENDER AND QUEER STUDIES	3
LGBT 40202	QUEER THEORY	3
LGBT 41198	LGBTQ RESEARCH METHODS (ELR)	3
Minor Electives, choose from the following:		9
AS 20071	INTRODUCTION TO GENDER AND SEXUALITY STUDIES	
AS 30171	THEORIES OF GENDER AND SEXUALITY	
AS 30798	GENDER AND SEXUALITY RESEARCH FORUM (ELR)	
AS 41099	CAPSTONE IN GENDER AND SEXUALITY STUDIES (ELR)	
ENG 21003	INTRODUCTION TO LGBT LITERATURE (DIVD)	
ENG 35301	LESBIAN, GAY, BISEXUAL AND TRANSGENDER: CRITICAL PERSPECTIVES (DIVD)	
HED 32544 or HED 47070	HUMAN SEXUALITY AIDS: ISSUES, EDUCATION AND PREVENTION	
LGBT 20095	SPECIAL TOPICS IN LGBTQ STUDIES	
LGBT 30095	SPECIAL TOPICS IN LGBTQ STUDIES	
LGBT 30196	INDIVIDUAL INVESTIGATION IN LGBTQ STUDIES <sup>1</sup>	
LGBT 40095	SPECIAL TOPICS IN LGBTQ STUDIES	
LGBT 40192	PRACTICUM IN LGBTQ STUDIES (ELR) <sup>2</sup>	
PSYC 40625	DEVELOPMENT OF GENDER ROLE AND IDENTITY (DIVD)	

or SOC 42315	SOCIOLOGY OF GENDER (DIVD)
SOC 32565	SOCIOLOGY OF SEXUALITIES (DIVD)
THEA 41115	LGBTQ THEATRE (DIVD)

Minimum Total Credit Hours: 18

- Maximum 3 credit hours of LGBT 30196 may apply toward minor electives.
- Maximum 3 credit hours LGBT 40192 may apply toward minor electives.

## Graduation Requirements

Minimum Minor GPA	Minimum Overall GPA
2.000	2.000

- Students must complete at least two upper-division (30000 or 40000 level) courses in the minor at Kent State on a graded basis (A-F).
- Minimum 6 credit hours in the minor must be upper-division coursework (30000 and 40000 level).
- Minimum 6 credit hours in the minor must be outside of the course requirements for any major or other minor the student is pursuing.
- Minimum 50 percent of the total credit hours for the minor must be taken at Kent State (in residence).

## Women's Studies - Minor

### College of Arts and Sciences

Center for the Study of Gender and Sexuality  
325 Merrill Hall  
Kent Campus  
330-672-0315  
www.kent.edu/csgrs

## Description

The Women's Studies minor offers flexible and diverse coursework across a variety of disciplines. Distinct in its commitments—born of women's struggles, movements, lives and work—the program invites students to revise perspectives, make fresh inquiries, broaden and deepen understandings by means of a simple but radical shift: the re-rendering of the female half of the human race not as 'the second sex,' but as primary, fundamental, essential and real.

The minor emphasizes are inclusiveness, criticality, academic freedom and responsibility.

### Fully Offered At:

- Kent Campus
- Stark Campus

## Admission Requirements

Admission to a minor is open to students declared in a bachelor's degree, the A.A.B. or A.A.S. degree or the A.T.S. degree (not Individualized Program major). Students declared only in the A.A. or A.S. degree or the A.T.S. degree in Individualized Program may not declare a minor. Students may not pursue a minor and a major in the same discipline.

## Minor Requirements

Code	Title	Credit Hours
<b>Minor Requirement</b>		
WMST 30000	COLLOQUIUM IN WOMEN'S STUDIES (DIVD)	3
or WMST 30001	FEMINIST THEORY	
WMST 30196	WOMEN STUDIES INDIVIDUAL INVESTIGATION <sup>1</sup>	3

Minor Electives, choose from the following: 15

COMM 35912	GENDER AND COMMUNICATION (DIVD)
CRIM 37411	WOMEN IN CRIME AND JUSTICE (DIVD)
ENG 21002	INTRODUCTION TO WOMEN'S LITERATURE (DIVD)
ENG 34021	WOMEN'S LITERATURE (DIVD)
HDFS 44022	CHANGING ROLES OF MEN AND WOMEN
HED 32544	HUMAN SEXUALITY
HED 44025	WOMEN'S HEALTH ISSUES
PAS 33110	THE BLACK WOMAN: HISTORICAL PERSPECTIVES (DIVD)
PHIL 31040	FEMINIST PHILOSOPHY (DIVD)
PHIL 32091	SEMINAR: PHILOSOPHICAL REFLECTIONS <sup>2</sup>
POL 40470	WOMEN, POLITICS AND POLICY (DIVD)
PSYC 40625	DEVELOPMENT OF GENDER ROLE AND IDENTITY (DIVD)
RPTM 36085	LEISURE AND CULTURE (DIVD)
SOC 42315	SOCIOLOGY OF GENDER (DIVD)
WMST 20095	SPECIAL TOPICS IN WOMEN'S STUDIES
WMST 30095	SPECIAL TOPICS IN WOMEN'S STUDIES II
WMST 40095	SPECIAL TOPICS IN WOMEN'S STUDIES III
WMST 40992	PRACTICUM IN WOMEN'S STUDIES (ELR)

Minimum Total Credit Hours: 21

- The individual investigation is a guided independent project with a written and oral report. Registration is by special approval. See Women's Studies coordinator for further information.
- See Women's Studies coordinator for acceptable titles.

## Graduation Requirements

Minimum Minor GPA	Minimum Overall GPA
2.000	2.000

- Students must complete at least two upper-division (30000 or 40000 level) courses in the minor at Kent State on a graded basis (A-F).
- Minimum 6 credit hours in the minor must be upper-division coursework (30000 and 40000 level).
- Minimum 6 credit hours in the minor must be outside of the course requirements for any major or other minor the student is pursuing.
- Minimum 50 percent of the total credit hours for the minor must be taken at Kent State (in residence).

## Department of Anthropology

### College of Arts and Sciences

Department of Anthropology  
226 Lowry Hall  
Kent Campus  
330-672-4363

www.kent.edu/anthropology

## Undergraduate Programs

- Anthropology - B.A.
- Anthropology - B.S.

## Minors

- Anthropology
- Forensic Anthropology
- Medical Anthropology

## Graduate Programs

- Anthropology - M.A.

## Department of Anthropology Faculty

- Bebber, Michelle R. (2019), Assistant Professor
- Eren, Metin (2016), Assistant Professor, Ph.D., Southern Methodist University, 2011
- Fotiou, Evgenia (2014), Assistant Professor, Ph.D, University of Wisconsin, Madison, 2010
- Lovejoy, Claude O. (1968), Distinguished Professor, Ph.D., University of Massachusetts, Amherst, 1970
- Manahan, Thomas K. (2006), Associate Professor, Ph.D., Vanderbilt University, 2003
- Meindl, Richard (1979), Professor, Ph.D., University of Massachusetts, Amherst, 1979
- Perusek, David J. (1998), Associate Professor, L.S.M., Kent State University, 1989
- Raghanti, Mary Ann (2000), Professor & Chair, Ph.D., Kent State University, 2007
- Spurlock, Linda B. (1993), Associate Professor, Ph.D., Kent State University, 2001
- Stumpf-Carome, Jeanne M. (1994), Associate Professor, Ph.D., University of California, Berkeley, 1992
- Takeshita, Rafaela S. (2019), Assistant Professor
- Tosi, Anthony J. (2014), Associate Professor, Ph.D., Columbia University, 2000

## Anthropology (ANTH)

**ANTH 18095 SPECIAL TOPICS ANTHROPOLOGY 3 Credit Hours**  
(Repeatable for credit) Special Topics in Anthropology offered irregularly when unusual resources or opportunities exist. Topic announced when scheduled.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

### **ANTH 18210 GLOBAL CULTURAL DIVERSITY: ANTHROPOLOGICAL PERSPECTIVES (DIVG) (KSS) 3 Credit Hours**

This introductory course in cultural anthropology examines the culture concept, the diverse ways of life found in communities around the world, and attempts by anthropologists and other social scientists to understand the commonalities underlying our diversity. It explores how individual lives are shaped by broader cultural and social forces, how people create meaning, and the nature of power relations. Students will gain insight into the potential of anthropological findings to help resolve contemporary human problems.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Diversity Global, Kent Core Social Sciences, TAG Social and Behavioral Sciences, Transfer Module Social Sciences

### **ANTH 18230 INTRODUCTION TO FORENSIC ANTHROPOLOGY 3 Credit Hours**

Forensic anthropology is the application of biological anthropology in a medico-legal context. The tools of archaeology and biological anthropology are used to discover, recover and identify human remains. Topics include human osteology, determining the biological profile (sex, age, ancestry and stature), facial reconstruction, establishing a positive I.D., trauma to bone, stages of decomposition, the role of insects in decomposition, and issues of mass graves.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

### **ANTH 18420 ARCHAEOLOGY: ANCIENT LIVES AND CULTURES (DIVG) (KSS) 3 Credit Hours**

Archaeology is the study of the human past using material remains. The themes of time change and human diversity will be emphasized as students learn about ancient societies and how they teach us about ourselves.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Diversity Global, Kent Core Social Sciences, TAG Social and Behavioral Sciences, Transfer Module Social Sciences

### **ANTH 18630 HUMAN EVOLUTION (KBS) 3 Credit Hours**

Introduction to basic evolutionary theory with a focus on the emergence and progressive development of the human species during the last five million years. Includes related topics such as primate behavior and human variation.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Kent Core Basic Sciences, TAG Social and Behavioral Sciences, Transfer Module Natural Sciences

**ANTH 18631 ISSUES IN HUMAN EVOLUTION (KBS) (KLAB) 1 Credit Hour**

Laboratory study of primate and human anatomy; human paleontology; Mendelian, molecular and human genetics; and primate behavior, ecology and conservation.

**Pre/corequisite:** ANTH 18630.

**Schedule Type:** Laboratory

**Contact Hours:** 1 lab

**Grade Mode:** Standard Letter

**Attributes:** Kent Core Basic Sciences, Kent Core Basic Sciences Lab, Transfer Module Natural Sciences

**ANTH 28095 SPECIAL TOPICS ANTHROPOLOGY 3 Credit Hours**

(Repeatable for credit) Special Topics in Anthropology offered irregularly when unusual resources or opportunities exist. Topic announced when scheduled.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ANTH 28300 INTRODUCTION TO FORENSIC GENETICS 3 Credit Hours**

Forensic genetics is a field in which the properties of proteins and nucleic acids (genes) are utilized to identify the person that produced them; for example, whose DNA is on a gun trigger? This is the first in a two-course series. This course provides a foundation in basic genetic principles and methods relevant to criminal investigation and victim identification. Topics include introduction and history of molecular forensics, crime scene evidence, serology (blood, semen, saliva), blood spatter, chromosome structure, principles of inheritance, linkage and crossing over, microsatellites (STRs), DNA extraction methods, standard PCR, capillary electrophoresis, mitochondrial DNA, sex chromosomes, basic population genetics, and CODIS database.

**Prerequisite:** ANTH 18230 or ANTH 18630.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ANTH 38095 SPECIAL TOPICS IN ANTHROPOLOGY 3 Credit Hours**

Special topics in anthropology offered irregularly when unusual resources or opportunities exist. Topic announced when scheduled.

**Prerequisite:** Junior standing or above.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ANTH 38096 INDIVIDUAL INVESTIGATION IN ANTHROPOLOGY (ELR) 1-3 Credit Hours**

(Repeatable for credit) Readings and/or research supervised by a member of the anthropology staff.

**Prerequisite:** Permission.

**Schedule Type:** Individual Investigation

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter-IP

**Attributes:** Experiential Learning Requirement

**ANTH 38292 FIELD WORK IN CULTURAL ANTHROPOLOGY (ELR) 3 Credit Hours**

(Repeatable for credit) Practical experience carrying out field research in cultural anthropology under the supervision of members of the anthropology faculty.

**Prerequisite:** ANTH 18210 or SOC 12050.

**Schedule Type:** Field Experience

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Experiential Learning Requirement

**ANTH 38480 ARCHAEOLOGICAL ANALYSIS (ELR) (WIC) 3 Credit Hours**

Methods necessary for the description and laboratory analysis of prehistoric remains. Course will include laboratory exercises as well as class lectures.

**Prerequisite:** ANTH 18420.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Experiential Learning Requirement, Writing Intensive Course

**ANTH 38490 QUANTITATIVE ANTHROPOLOGY 3 Credit Hours**

Introduces the quantitative description of numerical data, provides an understanding of the basis of probability theory and statistical inference and acquaints the student with the role of computers in anthropology.

**Prerequisite:** ANTH 18420 or ANTH 18630.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ANTH 38680 PRIMATE SOCIETIES 3 Credit Hours**

This course will be a survey of the behavior of living primates. Topics covered include reproductive and foraging strategies, social structure and primate conservation. Antecedent human behavior will also be considered.

**Prerequisite:** ANTH 18630.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ANTH 48001 QUALITATIVE RESEARCH METHODS IN ANTHROPOLOGY 3 Credit Hours**

(Slashed with ANTH 58001) This course covers the qualitative research methods employed by anthropologists to collect and analyze data.

Students will gain skills in ethnography, research design and analysis, and the ethical responsibilities associated with data collection and storage.

**Prerequisite:** ANTH 18210.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ANTH 48010 NORTH AMERICA'S ICE AGE HUNTERS 3 Credit Hours**

(Slashed with ANTH 58010) This class is an in-depth study of the Clovis people, their culture, their technology, their ancestors, and their progeny. The Clovis culture represents the first peoples of North America during the Pleistocene (Ice Age), over 13,000 years ago. These first Americans were colonizers to the New World, and tackled a dangerous and unfamiliar landscape.

**Prerequisite:** ANTH 18420.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter



**ANTH 48023 FORENSIC ARCHAEOLOGY FIELD SCHOOL (ELR) 3 Credit Hours**

(Slashed with ANTH 58023) This course provides students with practical experience in archaeological fieldwork in the context of a mock crime scene. Students will excavate a complex burial feature. Surface survey, excavation and recording techniques, field drawing, and processing of bones and artifacts will be taught.

**Prerequisite:** ANTH 18230 or ANTH 18630.

**Schedule Type:** Field Experience, Laboratory, Lecture

**Contact Hours:** 1 lecture, 3 lab, 3 other

**Grade Mode:** Standard Letter

**Attributes:** Experiential Learning Requirement

**ANTH 48093 VARIABLE TITLE WORKSHOP IN ANTHROPOLOGY 1-6 Credit Hours**

(Repeatable for credit) (Cross-listed with ANTH 58093) Classroom discussions and field study activity focused on professional and disciplinary concerns. Specific content varies with workshop group.

**Prerequisite:** Special approval.

**Schedule Type:** Workshop

**Contact Hours:** 1-6 other

**Grade Mode:** Satisfactory/Unsatisfactory

**ANTH 48095 SPECIAL TOPICS IN ANTHROPOLOGY 3 Credit Hours**

(Repeatable for credit) (Cross-listed with ANTH 58095) Offered irregularly when unusual resources and/or opportunities permit. Topic announced when scheduled.

**Prerequisite:** ANTH 18210 or 18420.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ANTH 48150 RELIGION: A SEARCH FOR A MEANING 3 Credit Hours**

(Slashed with ANTH 58150) This course teaches students the anthropological approaches to the study of religious beliefs and practices, as well as the role of religion in bringing about social change. Topics covered include: ritual, myth, witchcraft, sorcery, shamanism, syncretism, secularism and fundamentalism. Students will appreciate the diversity of ways in which religion is manifested cross-culturally and understand the different roles that religious beliefs play in human life. Students with Junior standing or above may request that the prerequisite be waived.

**Prerequisite:** ANTH 18210.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ANTH 48212 KINSHIP AND SOCIAL ORGANIZATION (DIVG) 3 Credit Hours**

(Cross-listed with ANTH 58212) This course employs cross-cultural approaches to the understanding of marriage, family organization, descent and kinship systems.

**Prerequisite:** ANTH 18210.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Diversity Global

**ANTH 48214 POLITICS OF CULTURE (ELR) (WIC) 3 Credit Hours**

(Slashed with ANTH 58214) Addresses the way in which culture has been politicized, and looks at such issues as cultural relativism and objectivity in anthropological studies with reference to specific peoples and geographic areas.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Experiential Learning Requirement, Writing Intensive Course

**ANTH 48220 CULTURAL ECOLOGY AND SUSTAINABILITY 3 Credit Hours**

(Slashed with ANTH 58220) Exploration of the dynamic relationship between socio-cultural systems and physical-biological environment through Anthropology's comparative perspective on the crucial contemporary need to foster a sustainable society.

**Prerequisite:** ANTH 18210.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ANTH 48225 ARCHAEOLOGY OF DEATH (ELR) (WIC) 3 Credit Hours**

Cross-listed with ANTH 58225) Archaeologists study cemeteries to learn how societies treat their dead, as well as work at mass disaster scenes, and clandestine graves. They aid law enforcement in many situations where human remains have been skeletonized. This course will provide students with an understanding of the processes and procedures involved in each.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Experiential Learning Requirement, Writing Intensive Course

**ANTH 48230 SOCIO-CULTURAL CHANGE 3 Credit Hours**

(Cross-listed with ANTH 58230) Analysis of institutional change where peoples of different cultures are in sustained contact.

**Prerequisite:** ANTH 18210.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ANTH 48242 ARCHAEOLOGICAL CERAMICS 3 Credit Hours**

(Slashed with ANTH 58242) This course will provide students with essential archaeological knowledge of ceramic materials via lecture and hands-on learning activities. Pottery will be addressed in a holistic manner, starting with its geochemical origins, through the various ways humans have sourced and manipulated this versatile raw material, as well as standard archaeological methods for study and interpretation. Ceramic materials from cultures all around the world will be discussed in depth to reveal both functional and social significance.

**Prerequisite:** ANTH 18420.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ANTH 48245 PSYCHOLOGICAL ANTHROPOLOGY (DIVG) 3 Credit Hours**

(Slashed with ANTH 58245) Overview of psychological anthropology. Includes comparative cross-cultural socialization and personality development; group and national character; relationship of personality to politics, social and occupational roles, and recent explorations of the relationship between culture and cognition. Examines contributions by leading figures, from Freud, Boas, Benedict, and Whorf through modern studies of spatial cognition and navigation.

**Prerequisite:** ANTH 18210 or PSYC 11762.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Diversity Global

**ANTH 48250 MEDICAL ANTHROPOLOGY (DIVG) 3 Credit Hours**

(Cross-listed with ANTH 58250) This course teaches students the central concepts and methods of medical anthropology, treating illness and healing as biocultural, political and experiential phenomena. The course considers both the specificity of local medical cultures and the complex interactions among the environment, human behavior and political and economic policies that shape them. The course will sensitize students to cultural issues in sickness and health care, and provide some critical analytic concepts and tools. Students with JUNIOR standing or above may request that the prerequisite be waived.

**Prerequisite:** ANTH 18210 or ANTH 18630.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Diversity Global

**ANTH 48262 PEOPLES AND CULTURES OF AMAZONIA (DIVG) 3 Credit Hours**

(Slashed with ANTH 58262) This course introduces students to the cultural traditions of Lowland South American peoples. Through a variety of ethnographic readings and films students will explore key anthropological themes such as the relationship between 'nature' and 'culture', gender relations, violence, anthropological ethics and the impacts of colonialism and globalization. Topics covered include: cosmology, personhood, ritual practices, sorcery, shamanism, gender and indigenous activism. Students with Junior standing or above may request that the prerequisite be waived.

**Prerequisite:** ANTH 18210.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Diversity Global

**ANTH 48280 BEING HUMAN: SIGNS AND SYMBOLS 3 Credit Hours**

An exploration of semiotic anthropology, the study of the production and communication of meaning through signs and symbols in human life, from both a humanistic and a scientific perspective. Special emphasis is on what it means to be human from a spatial as well as an evolutionary perspective as it relates to our sustainability crisis. The topic is crucial to our species, and to life on earth more generally, given the current globalization of modernity and the propagation of its non-sustainable definition of human being.

**Prerequisite:** Sophomore standing or above.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ANTH 48295 SPECIAL TOPICS IN CULTURAL ANTHROPOLOGY 3 Credit Hours**

Special topics in anthropology offered irregularly when unusual resources or opportunities exist. Topic announced when scheduled.

**Prerequisite:** ANTH 18210.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ANTH 48300 ADVANCED FORENSIC GENETICS 3 Credit Hours**

(Slashed with ANTH 58300) Forensic genetics is a field in which the properties of proteins and nucleic acids (genes) are utilized to identify the person that produced them. This is the second in a two-course series, and it focuses on the analysis and interpretation of molecular forensic data, as used in criminal investigations. Topics include quantitative PCR, capillary electrophoresis and electrophoretic artifacts, NRC and ISFG recommendations, CODIS database, familial searches, low-copy DNA, mixture deduction, forensic statistics, missing persons, paternity tests, mass disaster identifications, quality control, accreditations and validations, courtroom testimony, legal challenges to DNA typing, and new approaches and technologies.

**Prerequisite:** ANTH 28300.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ANTH 48360 ANTHROPOLOGY OF GENDER AND SEXUALITY (DIVG) 3 Credit Hours**

(Slashed with ANTH 58360) This course examines how people experience gender – what it means to be a man or woman – and sexuality in a variety of historical and cultural contexts. It explores how gender and sexuality intersect with other categories such as race, social class, and other markers of self and societal status. Students will gain a greater sense of the diversity of human social practices and beliefs regarding gender and sexuality across cultures. Students with Junior standing or above may request that the prerequisite be waived.

**Prerequisite:** ANTH 18210.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Diversity Global

**ANTH 48425 ANCIENT MESOAMERICA 3 Credit Hours**

(Cross-listed with ANTH 58425) Comparative analysis of Mesoamerican societies from the arrival of the first Americans over 10,000 years ago to European colonization in the 16th century A.D., including major pre-Columbian civilizations.

**Prerequisite:** ANTH 18420.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ANTH 48440 ARCHAEOLOGY OF ANCIENT OHIO 3 Credit Hours**

(Cross-listed with ANTH 58440) Cultural evolution and human-environmental relationships in the ancient Ohio region documenting an 11,000 year period from initial occupation to the beginning of European written history.

**Prerequisite:** ANTH 18420.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ANTH 48450 ANCIENT CIVILIZATIONS 3 Credit Hours**

(Slashed with ANTH 58450) This course will explore the mechanisms involved in the development of early complex societies around the globe. Students will be introduced to cross-cultural comparative analysis to explore theories regarding the rise of the state in various ecological environments, as well as other causal explanations and organizational parameters associated with ancient state formation and maintenance.

**Prerequisite:** ANTH 18420.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ANTH 48492 ARCHAEOLOGICAL FIELD METHODS (ELR) 3 Credit Hours**

(Repeatable for a maximum of 18 credit hours) (Cross-listed with ANTH 58492) Field and laboratory techniques in archaeological research.

**Prerequisite:** Special approval.

**Schedule Type:** Field Experience, Lecture

**Contact Hours:** 1.66 lecture, 4 other

**Grade Mode:** Standard Letter

**Attributes:** Experiential Learning Requirement

**ANTH 48495 SPECIAL TOPICS IN ARCHAEOLOGY 3 Credit Hours**

Special topics in anthropology offered irregularly when unusual resources or opportunities exist. Topic announced when scheduled.

**Prerequisite:** ANTH 18420.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ANTH 48550 FORENSIC SCIENCE IN THE COURTROOM 3 Credit Hours**

(Slashed with ANTH 58550) This course will provide Students with an understanding of the types of biological forensic data utilized in court, and the strengths and weaknesses of these data. Though multiple types of analyses will be discussed, emphasis will be placed on DNA (STR) data, as it is the predominant type of biological evidence used today. The course will also cover the steps required to determine whether a new type of analysis is admissible at trial. Basic courtroom procedures, biases in data interpretation and presentation, case studies, and moot courts will be included.

**Prerequisite:** Junior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ANTH 48623 HUMAN VARIATION 3 Credit Hours**

(Cross-listed with ANTH 58623) A detailed anthropological examination of the causes and extent of modern human variability.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ANTH 48630 PACIFIC ISLAND CULTURES (DIVG) 3 Credit Hours**

Peoples and characteristics of culture areas of Pacific Islands, including Polynesia, Melanesia and Micronesia with analysis of several representative cultures from these areas.

**Prerequisite:** ANTH 18210.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Diversity Global

**ANTH 48692 FIELD WORK IN BIOLOGICAL ANTHROPOLOGY (ELR) 3 Credit Hours**

(Repeatable for credit) (Cross-listed with ANTH 58692) Can be applied to any bioanth field of study and off-campus activity, ranging from museum work to U.S. and international research projects.

**Prerequisite:** Special approval.

**Schedule Type:** Field Experience

**Contact Hours:** 3 other

**Grade Mode:** Satisfactory/Unsatisfactory

**Attributes:** Experiential Learning Requirement

**ANTH 48695 SPECIAL TOPICS IN BIOLOGICAL ANTHROPOLOGY 3 Credit Hours**

Special topics in anthropology offered irregularly when unusual resources or opportunities exist. Topic announced when scheduled.

**Prerequisite:** ANTH 18630.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ANTH 48810 HUMAN PALEONTOLOGY 3 Credit Hours**

(Cross-listed with ANTH 58810) Study of primate fossils of the Miocene and Pliocene to include the origins of humans and their earliest ancestors.

**Prerequisite:** ANTH 18630.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ANTH 48820 HUMAN MUSCULO-SKELETAL SYSTEM 3 Credit Hours**

(Cross-listed with ANTH 58820) A largely hands-on course introducing the study of human anatomy for students interested in biological anthropology and archaeology. Topics include skeletal and functional anatomy biomechanics and estimation of age and sex from isolated bones.

**Prerequisite:** Junior standing or above.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ANTH 48830 HUMAN BEHAVIORAL ECOLOGY AND EVOLUTION (DIVG) (ELR) (WIC) 3 Credit Hours**

(Cross-listed with ANTH 58830) How 'unique' is human behavior? Using an evolutionary perspective, we will explore the evolution of human mating systems and parental investment.

**Prerequisite:** ANTH 18630 or BSCI 30156.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Diversity Global, Experiential Learning Requirement, Writing Intensive Course

**ANTH 48835 PRIMATE ECOLOGY AND CONSERVATION 3 Credit Hours**

(Slashed with ANTH 58835) Study of the geographic distribution and evolutionary ecology of prosimians, monkeys and apes and human and climatic effects on their long-term survival.

**Prerequisite:** ANTH 18630 or ANTH 38680 or BSCI 10120.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ANTH 48850 NATURAL SELECTION ACCORDING TO DARWIN 3 Credit Hours**

(Slashed with ANTH 58850) Darwin's Origin of Species transformed our understanding of the natural world. Although he was not aware of the biological constituents of inheritance (i.e. genetics and the modern synthesis), his three ingredients for a system of descent with modification – variation, inheritance, and sorting – were wildly influential. This course will not only explore how Darwin understood his monumental theory, but also show that Darwin's original proposal explains both biological and cultural evolution. Students will gain an understanding of how Darwin's theory provided a foundation for modern anthropological thought and continues to inform anthropological queries.

**Prerequisite:** Junior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ANTH 48889 INTERNATIONAL EXPERIENCE (ELR) 1-4 Credit Hours**

(Slashed with ANTH 58889) Faculty-led study abroad experiences.

**Prerequisite:** None.

**Schedule Type:** International Experience

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**Attributes:** Experiential Learning Requirement

**ANTH 58001 QUALITATIVE RESEARCH METHODS IN ANTHROPOLOGY 3 Credit Hours**

(Slashed with ANTH 48001) This course covers the qualitative research methods employed by anthropologists to collect and analyze data. Students will gain skills in ethnography, research design and analysis, and the ethical responsibilities associated with data collection and storage.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ANTH 58010 NORTH AMERICA'S ICE AGE HUNTERS 3 Credit Hours**

(Slashed with ANTH 48010) This class is an in-depth study of the Clovis people, their culture, their technology, their ancestors, and their progeny. The Clovis culture represents the first peoples of North America during the Pleistocene (Ice Age), over 13,000 years ago. These first Americans were colonizers to the New World, and tackled a dangerous and unfamiliar landscape.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ANTH 58023 FORENSIC ARCHAEOLOGY FIELD SCHOOL 3 Credit Hours**

(Slashed with ANTH 48023) This course provides students with practical experience in archaeological fieldwork in the context of a mock crime scene. Students will excavate a complex burial feature. Surface survey, excavation and recording techniques, field drawing, and processing of bones and artifacts will be taught.

**Prerequisite:** Graduate Standing.

**Schedule Type:** Field Experience, Laboratory, Lecture

**Contact Hours:** 1 lecture, 3 lab, 3 other

**Grade Mode:** Standard Letter

**ANTH 58093 VARIABLE TITLE WORKSHOP IN ANTHROPOLOGY 1-6 Credit Hours**

(Repeatable for credit) (Cross-listed with ANTH 48093) Classroom discussions and field study activity focused on professional and disciplinary concerns. Specific content varies with workshop group.

**Prerequisite:** Graduate standing.

**Schedule Type:** Workshop

**Contact Hours:** 1-6 other

**Grade Mode:** Satisfactory/Unsatisfactory

**ANTH 58095 SPECIAL TOPICS IN ANTHROPOLOGY 3 Credit Hours**

(Repeatable for credit) (Cross-listed with ANTH 48095) Offered irregularly when unusual resources and/or opportunities permit.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ANTH 58150 RELIGION: A SEARCH FOR MEANING 3 Credit Hours**

(Slashed with ANTH 48150) This course teaches students anthropological approaches to the study of religious beliefs and practices, as well as the role of religion in bringing about social change. Topics covered include: ritual, myth, witchcraft, sorcery, shamanism, syncretism, secularism and fundamentalism. Students will appreciate the diversity of ways in which religion is manifested cross-culturally and understand the different roles that religious beliefs play in human life.

**Prerequisite:** Graduate Standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ANTH 58212 KINSHIP AND SOCIAL ORGANIZATION 3 Credit Hours**

(Cross-listed with ANTH 48212) This course employs cross-cultural approaches to the understanding of marriage, family organization, descent and kinship system.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ANTH 58214 POLITICS OF CULTURE 3 Credit Hours**

(Slashed with ANTH 48214) This course will address the way in which culture has been politicized. It will look at issues such as cultural relativism and objectivity in anthropological studies with reference to specific peoples and geographic areas.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ANTH 58220 CULTURAL ECOLOGY AND SUSTAINABILITY 3 Credit Hours**

Cross-listed with ANTH 48220) Exploration of the dynamic relationship between socio-cultural systems and the physical-biological environment through Anthropology's comparative perspective on the crucial contemporary need to foster a sustainable society.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter



**ANTH 58225 ARCHAEOLOGY OF DEATH 3 Credit Hours**

(Cross-listed with ANTH 48225) Archaeologists study cemeteries to learn how societies treat their dead, as well as work at mass disaster scenes, and clandestine graves. They aid law enforcement in many situations where human remains have been skeletonized. This course will provide students with an understanding of the processes and procedures involved in each.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ANTH 58230 SOCIO-CULTURAL CHANGE 3 Credit Hours**

(Cross-listed with ANTH 48230) Analysis of institutional changes where peoples of different cultures are in sustained contact.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ANTH 58242 ARCHAEOLOGICAL CERAMICS 3 Credit Hours**

(Slashed with 48242) This course will provide students with essential archaeological knowledge of ceramic materials via lectures and hands-on learning activities. Pottery will be addressed in a holistic manner, starting with its geochemical origins, through the various ways humans have sourced and manipulated this versatile raw material, as well as standard archaeological methods for study and interpretation. Ceramic materials from cultures all around the world will be discussed in depth to reveal both functional and social significance.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ANTH 58245 PSYCHOLOGICAL ANTHROPOLOGY 3 Credit Hours**

(Slashed with 48245) Overview of psychological anthropology. Includes comparative cross-cultural socialization and personality development; group and national character; relationship of personality to politics, social and occupational roles, and recent explorations of the relationship between culture and cognition. Examines contributions by leading figures, from Freud, Boas, Benedict, and Whorf through modern studies of spatial cognition and navigation.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ANTH 58250 MEDICAL ANTHROPOLOGY 3 Credit Hours**

(Cross-listed with ANTH 48250) This course teaches students the central concepts and methods of medical anthropology, treating illness and healing as biocultural, political and experiential phenomena. The course considers both the specificity of local medical cultures and the complex interactions among the environment, human behavior and political and economic policies that shape them. The course will sensitize students to cultural issues in sickness and health care, and provide some critical analytic concepts and tools.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ANTH 58262 PEOPLES AND CULTURES OF AMAZONIA 3 Credit Hours**

(Slashed with ANTH 48262) This course introduces students to the cultural traditions of Lowland South American peoples. Through a variety of ethnographic readings and films students will explore key anthropological themes such as the relationship between 'nature' and 'culture', gender relations, violence, anthropological ethics and the impacts of colonialism and globalization. Topics covered include: cosmology, personhood, ritual practices, sorcery, shamanism, gender and indigenous activism.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ANTH 58295 SPECIAL TOPICS IN CULTURAL ANTHROPOLOGY 3 Credit Hours**

Special topics in anthropology offered irregularly when unusual resources or opportunities exist. Topic announced when scheduled.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ANTH 58300 ADVANCED FORENSIC GENETICS 3 Credit Hours**

(Slashed with ANTH 48300) Forensic genetics is a field in which the properties of proteins and nucleic acids (genes) are utilized to identify the person that produced them. This is the second in a two-course series, and it focuses on the analysis and interpretation of molecular forensic data, as used in criminal investigations. Topics include quantitative PCR, capillary electrophoresis and electrophoretic artifacts, NRC and ISFG recommendations, CODIS database, familial searches, low-copy DNA, mixture deduction, forensic statistics, missing persons, paternity tests, mass disaster identifications, quality control, accreditations and validations, courtroom testimony, legal challenges to DNA typing, and new approaches and technologies.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ANTH 58360 ANTHROPOLOGY OF GENDER AND SEXUALITY 3 Credit Hours**

(Slashed with ANTH 48360) This course examines how people experience gender – what it means to be a man or woman – and sexuality in a variety of historical and cultural contexts. It explores how gender and sexuality intersect with other categories such as race, social class, and other markers of self and societal status. Students will gain a greater sense of the diversity of human social practices and beliefs regarding gender and sexuality across cultures.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ANTH 58425 ANCIENT MESOAMERICA 3 Credit Hours**

(Cross-listed with ANTH 48425) Comparative analysis of Mesoamerican societies from the arrival of the first Americans over 10,000 years ago to European colonization in the 16th century A.D., including major pre-Columbian civilizations.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter



**ANTH 58440 ARCHAEOLOGY OF ANCIENT OHIO 3 Credit Hours**  
 (Cross-listed with ANTH 48440) Cultural evolution and human-environmental relationships in the ancient Ohio region documenting an 11,000 year period from initial occupation to the beginning of European written history.  
**Prerequisite:** Graduate standing.  
**Schedule Type:** Lecture  
**Contact Hours:** 3 lecture  
**Grade Mode:** Standard Letter

**ANTH 58450 ANCIENT CIVILIZATIONS 3 Credit Hours**  
 (Cross-listed with ANTH 48450) This course will explore the mechanisms involved in the development of early complex societies around the globe. Students will be introduced to cross-cultural comparative analysis to explore theories regarding the rise of the state in various ecological environments, as well as other causal explanations and organizational parameters associated with ancient state formation and maintenance.  
**Prerequisite:** Graduate standing.  
**Schedule Type:** Lecture  
**Contact Hours:** 3 lecture  
**Grade Mode:** Standard Letter

**ANTH 58492 ARCHAEOLOGICAL FIELD METHODS 3 Credit Hours**  
 (Repeatable 6 times for credit) (Cross-listed with ANTH 48492) Field and laboratory techniques in archaeological research.  
**Prerequisite:** Graduate standing.  
**Schedule Type:** Field Experience, Lecture  
**Contact Hours:** 1.66 lecture, 4 other  
**Grade Mode:** Standard Letter

**ANTH 58495 SPECIAL TOPICS IN ARCHAEOLOGY 3 Credit Hours**  
 Special topics in anthropology offered irregularly when unusual resources or opportunities exist. Topic announced when scheduled.  
**Prerequisite:** Graduate standing.  
**Schedule Type:** Lecture  
**Contact Hours:** 3 lecture  
**Grade Mode:** Standard Letter

**ANTH 58550 FORENSIC SCIENCE IN THE COURTROOM 3 Credit Hours**  
 (Slashed with ANTH 48550) This course will provide students with an understanding of the types of biological forensic data utilized in court, and the strengths and weaknesses of these data. Though multiple types of analyses will be discussed, emphasis will be placed on DNA (STR) data, as it is the predominant type of biological evidence used today. The course will also cover the steps required to determine whether a new type of analysis is admissible at trial. Basic courtroom procedures, biases in data interpretation and presentation, case studies, and moot courts will be included.  
**Prerequisite:** Graduate standing.  
**Schedule Type:** Lecture  
**Contact Hours:** 3 lecture  
**Grade Mode:** Standard Letter

**ANTH 58623 HUMAN VARIATION 3 Credit Hours**  
 (Cross-listed with ANTH 48623) A detailed anthropological examination of the causes and extent of modern human variability.  
**Prerequisite:** Graduate standing; and special approval.  
**Schedule Type:** Lecture  
**Contact Hours:** 3 lecture  
**Grade Mode:** Standard Letter

**ANTH 58692 FIELD WORK IN BIOLOGICAL ANTHROPOLOGY 3 Credit Hours**  
 (Repeatable for credit) (Cross-listed with ANTH 48692) Can be applied to any bioanth field of study and off-campus activity, ranging from museum work to U.S. and international research projects.  
**Prerequisite:** Approval of project and faculty sponsor; and graduate standing.  
**Schedule Type:** Field Experience  
**Contact Hours:** 3 other  
**Grade Mode:** Satisfactory/Unsatisfactory

**ANTH 58695 SPECIAL TOPICS IN BIOLOGICAL ANTHROPOLOGY 3 Credit Hours**  
 Special topics in anthropology offered irregularly when unusual resources or opportunities exist. Topic announced when scheduled.  
**Prerequisite:** Graduate standing.  
**Schedule Type:** Lecture  
**Contact Hours:** 3 lecture  
**Grade Mode:** Standard Letter

**ANTH 58810 HUMAN PALEONTOLOGY 3 Credit Hours**  
 (Cross-listed with ANTH 48810) Study of primate fossils of the Miocene and Pliocene to include the origins of humans and their earliest ancestors.  
**Prerequisite:** Graduate standing.  
**Schedule Type:** Lecture  
**Contact Hours:** 3 lecture  
**Grade Mode:** Standard Letter

**ANTH 58820 HUMAN MUSCULO-SKELETAL SYSTEM 3 Credit Hours**  
 (Cross-listed with ANTH 48820) A largely hands-on course introducing the study of human anatomy for students interested in biological anthropology and archaeology. Topics include skeletal and functional anatomy, biomechanics, and estimation of age and sex from isolated bones.  
**Prerequisite:** Graduate standing.  
**Schedule Type:** Lecture  
**Contact Hours:** 3 lecture  
**Grade Mode:** Standard Letter

**ANTH 58830 HUMAN BEHAVIORAL ECOLOGY AND EVOLUTION 3 Credit Hours**  
 (Cross-listed with ANTH 48830) How 'unique' is human behavior? Using an evolutionary perspective we will explore the evolution of human mating systems and parental investment.  
**Prerequisite:** Graduate standing.  
**Schedule Type:** Lecture  
**Contact Hours:** 3 lecture  
**Grade Mode:** Standard Letter

**ANTH 58835 PRIMATE ECOLOGY AND CONSERVATION 3 Credit Hours**  
 (Slashed with ANTH 48835) Study of the geographic distribution and evolutionary ecology of prosimians, monkeys and apes and human and climatic effects on their long-term survival.  
**Prerequisite:** Graduate standing.  
**Schedule Type:** Lecture  
**Contact Hours:** 3 lecture  
**Grade Mode:** Standard Letter

**ANTH 58850 NATURAL SELECTION ACCORDING TO DARWIN 3 Credit Hours**

(Slashed with ANTH 48850) Darwin's Origin of Species transformed our understanding of the natural world. Although he was not aware of the biological constituents of inheritance (i.e. genetics and the modern synthesis), his three ingredients for a system of descent with modification – variation, inheritance, and sorting – were wildly influential. This course will not only explore how Darwin understood his monumental theory, but also show that Darwin's original proposal explains both biological and cultural evolution. Students will gain an understanding of how Darwin's theory provided a foundation for modern anthropological thought and continues to inform anthropological queries.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ANTH 58889 INTERNATIONAL EXPERIENCE 1-4 Credit Hours**

(Slashed with ANTH 58889) Faculty-led study abroad experiences.

**Prerequisite:** Graduate standing.

**Schedule Type:** Field Experience, International Experience

**Contact Hours:** 3-12 other

**Grade Mode:** Standard Letter

**ANTH 68091 RESEARCH SEMINAR IN ANTHROPOLOGICAL THEORY 3 Credit Hours**

(Repeatable for credit) An opportunity for advanced students to follow up personal theoretical interests based upon a previously established foundation in theory.

**Prerequisite:** Graduate standing.

**Schedule Type:** Seminar

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**ANTH 68093 VARIABLE TITLE WORKSHOP IN ANTHROPOLOGY 1-6 Credit Hours**

(Repeatable for credit) Classroom presentations and field study focused on professional and disciplinary concerns. Specific content varies with workshop group.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Workshop

**Contact Hours:** 1-6 other

**Grade Mode:** Satisfactory/Unsatisfactory

**ANTH 68095 SPECIAL TOPICS IN ANTHROPOLOGY 3 Credit Hours**

(Repeatable for credit) Offered irregularly when unusual resources and/or opportunities permit.

**Prerequisite:** 6 graduate hours toward MA in Anthropology; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ANTH 68096 INDIVIDUAL INVESTIGATION 1-3 Credit Hours**

(Repeatable for credit) Readings and/or research supervised by member of graduate faculty. Petition form available in the anthropology department office.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Individual Investigation

**Contact Hours:** 1-3 other

**Grade Mode:** Standard Letter-IP

**ANTH 68098 RESEARCH 1-15 Credit Hours**

(Repeatable for credit) Research or individual investigation. Repeated registration permitted. Petition form available in the anthropology department office.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Research

**Contact Hours:** 1-15 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**ANTH 68199 THESIS I 2-6 Credit Hours**

Thesis student must register for total of 6 hours, 2 to 6 hours in a single semester, or distributed over several semesters if desired.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Masters Thesis

**Contact Hours:** 2-6 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**ANTH 68230 PROBLEMS IN CULTURAL ANTHROPOLOGY 3 Credit Hours**

Basic graduate course in cultural anthropology required of all M.A. candidates. Course deals with major topics within this subdiscipline of anthropology.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ANTH 68241 ETHNIC GROUP ANALYSIS: PACIFIC ISLANDS 3 Credit Hours**

Peoples and characteristics of culture areas of the Pacific Islands, including Polynesia, Melanesia and Micronesia with analysis of several representative cultures from these areas.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ANTH 68299 THESIS II 2 Credit Hours**

Thesis students must continue registration each semester until all degree requirements are met.

**Prerequisite:** ANTH 68199; and graduate standing.

**Schedule Type:** Masters Thesis

**Contact Hours:** 3 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**ANTH 68430 PROBLEMS IN WORLD PREHISTORY 3 Credit Hours**

Basic graduate course in prehistoric archaeology required of all M.A. candidates.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ANTH 68630 PRINCIPLES OF BIOLOGICAL ANTHROPOLOGY 3 Credit Hours**

(Cross-listed with BMS 78630) A graduate-level introduction to the field of biological anthropology. Topics include genetics, human variation, fossil and modern primates, early man.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ANTH 68637 BIOANTHROPOLOGICAL DATA ANALYSIS I 5 Credit Hours**

(Cross-listed with BMS 78637) Examination of methods of univariate and bivariate experimental design. This survey emphasizes tests of hypothesis and estimation techniques with both classical and nonparametric procedures.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 5 lecture

**Grade Mode:** Standard Letter

**ANTH 68638 BIOANTHROPOLOGICAL DATA ANALYSIS II 3 Credit Hours**

(Cross-listed with BMS 78638) This survey of multivariate analysis in anthropology includes one-sample data exploration, multiple sample problems and regression methods. It also includes computer application. Graduate standing.

**Prerequisite:** ANTH 68637 (same course as BMS 78638).

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

## Anthropology - M.A.

### College of Arts and Sciences

Department of Anthropology

226 Lowry Hall

Kent Campus

330-672-4363

[www.kent.edu/anthropology](http://www.kent.edu/anthropology)

## Description

The Master of Arts degree in Anthropology provides opportunities for students to study in three fields: cultural anthropology, archaeology and biological anthropology. The research-oriented program encourages students to develop their own projects or participate in existing projects by their second semester. More than 80 percent of M.A. graduates continue for the Ph.D. degree or find employment in an area directly related to their training.

### Fully Offered At:

- Kent Campus

## Admission Requirements

- Bachelor's degree from an accredited college or university for unconditional admission
- Minimum 3.000 undergraduate GPA on a 4.000 point scale for unconditional admission
- Official transcript(s)
- GRE scores
- Goal statement
- Three letters of recommendation
- English language proficiency - all international students must provide proof of English language proficiency (unless they meet specific exceptions) by earning one of the following:
  - Minimum 525 TOEFL PBT score (paper-based version)
  - Minimum 71 TOEFL IBT score (Internet-based version)
  - Minimum 74 MELAB score

- Minimum 6.0 IELTS score
- Minimum 50 PTE score
- Minimum 100 Duolingo English Test score

For more information about graduate admissions, please visit the Graduate Studies admission website. For more information on international admission, visit the Office of Global Education's admission website.

## Program Learning Outcomes

Graduates of this program will be able to:

1. Demonstrate a holistic view of human cultures. They are to appreciate that the global species is a social and cultural as well as a biological organism, with a past that is both historic and prehistoric. A student who wishes to emphasize socio-cultural anthropology will demonstrate a fundamental appreciation of diverse human and institutional behavior.
2. Appreciate and demonstrate how anthropologists investigate the past using the methods of the social sciences and the natural sciences, particularly geography and geology. They demonstrate comprehension of anthropology's special role in making archaeology, particularly the study of prehistoric Ohio, woodland North America, and Mesoamerica, come to life and become relevant for them. In addition, they gain a special appreciation of archaeology's other mandate—the need to conserve the precious heritage of the archaeological record, not only Ohio's but that of the Americas and the Old World as well.
3. Demonstrate an understanding of biological anthropology as the most relevant evolution science, the one which gives them an appreciation of their own place in nature. They see the two dimensions of human evolution and adaptation: a global one (modern human variation) and a deep temporal one (human origins). Both dimensions require an appreciation of the neo-Darwinian theory of evolution, which includes both the process of natural selection and also the roles which genetics and developmental biology play in adaptation and evolution. They appreciate the urgency of primate and rainforest conservation.

## Program Requirements

### Major Requirements

Code	Title	Credit Hours
<b>Major Requirements</b>		
ANTH 68230	PROBLEMS IN CULTURAL ANTHROPOLOGY (min B grade)	3
ANTH 68430	PROBLEMS IN WORLD PREHISTORY (min B grade)	3
ANTH 68630	PRINCIPLES OF BIOLOGICAL ANTHROPOLOGY (min B grade)	3
Additional Requirements <sup>1</sup>		21
<i>Culminating Experience</i>		
ANTH 68199	THESIS I <sup>2</sup>	6
Minimum Total Credit Hours:		36

<sup>1</sup> Students are encouraged to select at least one course in either linguistics or statistics in consultation with their advisors. Students may be permitted to present a maximum 6 credit hours of coursework from outside of anthropology. The 6 credit hours, however, are expected to relate to the course of study being pursued (all cases will be considered on an individual basis, and outside courses must be selected in consultation with the advisor and the coordinator of graduate studies). Students wishing to take statistics or linguistics courses from outside of anthropology may be permitted to do so without those credit hours counting against their allotted 6 credit hours, in the event that the courses are not available within the department when they are needed.

<sup>2</sup> By the end of the first semester of graduate work, students should select two members of the graduate anthropology faculty, in addition to their principal advisor, to constitute a thesis committee. This committee must approve the thesis before it is submitted to the College of Arts and Sciences. Students should arrange for the appointment of this committee with the graduate coordinator for anthropology. A completed written thesis must be unanimously approved as a work of professional caliber as to content and form by a thesis committee of three graduate faculty. This thesis will be defended orally by the student. The defense is not to be considered a mere formality. The committee may range beyond the actual content of the thesis to questions about concepts, methods, theories upon which the thesis is based and about the content of relevant studies included in the bibliography of the thesis. In cases in which the faculty believe that a student's career would be better served by additional coursework rather than a thesis, 6 credit hours of additional coursework may be substituted for the thesis. The additional courses should compose an intensive investigation within the student's specialty. Permission for using the non-thesis option must be arranged through the graduate coordinator. In the very rare cases where a student is granted permission to use the non-thesis option, special written comprehensive examinations will be required.

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## Graduation Requirements

Formal final examinations are administered in ANTH 68230, ANTH 68430 and ANTH 68630. Students who do not pass these examinations (earning 'Unsatisfactory') may be dismissed from the program. Students who do not earn a minimum B grade in these courses will be required to pass an appropriate additional examination. Students who earn less than a C grade in any of the courses cannot subsequently qualify for an M.A. degree in Anthropology.

## Anthropology - B.A.

College of Arts and Sciences  
Department of Anthropology  
226 Lowry Hall  
Kent Campus  
330-672-4363  
[www.kent.edu/anthropology](http://www.kent.edu/anthropology)

## Description

The Bachelor of Arts degree in Anthropology focuses on human cultural and biological diversity and the impact on past and present environments. Anthropology's relevance to other areas of study, including

sociology, social-psychology, biology and pre-medicine, links it to culture area studies, community planning and public health.

The Anthropology major provides in-depth area studies in the South Pacific (cultural anthropology), Mesoamerica and Ohio (archaeology). Students who focus on the biological aspect of human evolution benefit from the freshman-level human evolution laboratory.

### Fully Offered At:

- Kent Campus

## Admission Requirements

The university affirmatively strives to provide educational opportunities and access to students with varied backgrounds, those with special talents and adult students who graduated from high school three or more years ago.

**Freshman Students on the Kent Campus:** The freshman admission policy on the Kent Campus is selective. Admission decisions are based upon the following: cumulative grade point average, ACT and/or SAT scores, strength of high school college preparatory curriculum and grade trends. The Admissions Office at the Kent Campus may defer the admission of students who do not meet admissions criteria but who demonstrate areas of promise for successful college study. Deferred applicants may begin their college coursework at one of seven regional campuses of Kent State University. For more information on admissions, including additional requirements for some academic programs, visit the admissions website for new freshmen.

**Freshman Students on the Regional Campuses:** Kent State campuses at Ashtabula, East Liverpool, Geauga, Salem, Stark, Trumbull and Tuscarawas, as well as the Regional Academic Center in Twinsburg, have open enrollment admission for students who hold a high school diploma, GED or equivalent.

**English Language Proficiency Requirements for International Students:** All international students must provide proof of English language proficiency (unless they meet specific exceptions) by earning a minimum 525 TOEFL score (71 on the Internet-based version), minimum 75 MELAB score, minimum 6.0 IELTS score or minimum 48 PTE score, or by completing the ESL level 112 Intensive Program. For more information on international admission, visit the Office of Global Education's admission website.

**Transfer, Transitioning and Former Students:** For more information about admission criteria for transfer, transitioning and former students, please visit the admissions website.

## Program Learning Outcomes

Graduates of this program will be able to:

1. Learn how anthropologists investigate the past using the methods of social scientists.
2. Demonstrate comprehension of anthropology's special role in making archaeology, particularly the study of prehistoric Mexico and Ohio, come to life and become relevant for them.
3. Gain a special appreciation of archaeology's other mandate—the need to conserve the precious heritage of the archaeological record, not only Ohio's but that of all of the eastern woodlands, and the Americas as well.

- Demonstrate an understanding of biological anthropology as the most relevant evolution science, the one which gives them an appreciation of their place in nature.
- See the two dimensions of human evolution and adaptation: a global one (modern human variation) and a temporal one (human origins). Both dimensions require an appreciation of the neo-Darwinian theory of evolution, which includes both the process of natural selection and the roles which genetics and developmental biology play.
- Achieve a holistic view of human cultures and an extensive knowledge base of diverse human behavior.

## University Requirements

All students in a bachelor's degree program at Kent State University must complete the following university requirements for graduation.

**NOTE:** University requirements may be fulfilled in this program by specific course requirements. Please see Program Requirements for details.

Destination Kent State: First Year Experience	1
Course is not required for students with 25 transfer credits, excluding College Credit Plus, or age 21+ at time of admission.	
Diversity Domestic/Global (DIVD/DIVG)	2 courses
Students must successfully complete one domestic and one global course, of which one must be from the Kent Core.	
Experiential Learning Requirement (ELR)	varies
Students must successfully complete one course or approved experience.	
Kent Core (see table below)	36-37
Writing-Intensive Course (WIC)	1 course
Students must earn a minimum C grade in the course.	
Upper-Division Requirement	39 (or 42)
Students must successfully complete 39 upper-division (numbered 30000 to 49999) credit hours to graduate. Students in a B.A. and/or B.S. degree in the College of Arts and Sciences must complete 42 upper-division credit hours.	
Total Credit Hour Requirement	120
Some bachelor's degrees require students to complete more than 120 credit hours.	

## Kent Core Requirements

Kent Core Composition (KCOMP)	6
Kent Core Mathematics and Critical Reasoning (KMCR)	3
Kent Core Humanities and Fine Arts (KHUM/KFA) (min one course each)	9
Kent Core Social Sciences (KSS) (must be from two disciplines)	6
Kent Core Basic Sciences (KBS/KLAB) (must include one laboratory)	6-7
Kent Core Additional (KADL)	6
<b>Total Credit Hours:</b>	<b>36-37</b>

## Program Requirements

### Major Requirements

Code	Title	Credit Hours
<b>Major Requirements (courses count in major GPA)</b>		
ANTH 18210	GLOBAL CULTURAL DIVERSITY: ANTHROPOLOGICAL PERSPECTIVES (DIVG) (KSS)	3

ANTH 18420	INTRODUCTION TO ARCHAEOLOGY (DIVG) (KSS)	3
ANTH 18630	HUMAN EVOLUTION (KBS)	3
ANTH 18631	ISSUES IN HUMAN EVOLUTION (KBS) (KLAB)	1
ANTH 48001	QUALITATIVE RESEARCH METHODS IN ANTHROPOLOGY	3
or ANTH 38490	QUANTITATIVE ANTHROPOLOGY	
Archaeology Elective, choose from the following:		3
ANTH 38480	ARCHAEOLOGICAL ANALYSIS (ELR) (WIC) <sup>1</sup>	
ANTH 48225	ARCHAEOLOGY OF DEATH (ELR) (WIC) <sup>1</sup>	
ANTH 48440	ARCHAEOLOGY OF ANCIENT OHIO	
ANTH 48450	ANCIENT CIVILIZATIONS	
ANTH 48492	ARCHAEOLOGICAL FIELD METHODS (ELR)	
ANTH 48010	NORTH AMERICA'S ICE AGE HUNTERS	
ANTH 48242	ARCHAEOLOGICAL CERAMICS	
Cultural Anthropology Elective, choose from the following:		3
ANTH 48150	RELIGION: A SEARCH FOR A MEANING	
ANTH 48214	POLITICS OF CULTURE (ELR) (WIC) <sup>1</sup>	
ANTH 48220	CULTURAL ECOLOGY AND SUSTAINABILITY	
ANTH 48245	PSYCHOLOGICAL ANTHROPOLOGY (DIVG)	
ANTH 48250	MEDICAL ANTHROPOLOGY (DIVG)	
ANTH 48262	PEOPLES AND CULTURES OF AMAZONIA (DIVG)	
ANTH 48280	BEING HUMAN: SIGNS AND SYMBOLS	
ANTH 48360	ANTHROPOLOGY OF GENDER AND SEXUALITY (DIVG)	
Biological Anthropology Elective, choose from the following:		3
ANTH 28300	INTRODUCTION TO FORENSIC GENETICS	
ANTH 38680	PRIMATE SOCIETIES	
ANTH 48623	HUMAN VARIATION	
ANTH 48810	HUMAN PALEONTOLOGY	
ANTH 48820	HUMAN MUSCULO-SKELETAL SYSTEM	
ANTH 48835	PRIMATE ECOLOGY AND CONSERVATION	
ANTH 48850	NATURAL SELECTION ACCORDING TO DARWIN	
Anthropology (ANTH) Upper-Division Electives (30000 or 40000 level)		12
<b>Additional Requirements (courses do not count in major GPA)</b>		
UC 10097	DESTINATION KENT STATE: FIRST YEAR EXPERIENCE	1
Foreign Language (see Foreign Language College Requirement below)		14-16
College General Requirement (must be from Kent Core Basic Sciences) <sup>2</sup>		3
College General Requirement (must be from Kent Core Social Sciences) <sup>3</sup>		3
Kent Core Composition		6
Kent Core Mathematics and Critical Reasoning		3
Kent Core Humanities and Fine Arts (minimum one course from each)		9
Kent Core Social Science (must be from two categories)		3
Kent Core Basic Sciences		3
Kent Core Additional		3
General Electives (total credit hours depends on earning 120 credit hours, including 42 upper-division credit hours)		38
Minimum Total Credit Hours:		120

<sup>1</sup> A minimum C grade must be earned to fulfill the writing-intensive requirement.



<sup>2</sup> One additional course taken from the Kent Core Basic Science courses in the following Arts and Sciences disciplines: Anthropology (ANTH), Biological Sciences (BSCI), Chemistry (CHEM), Geography (GEOG), Geology (GEOL) or Physics (PHY). The course may not be from the student's major.

<sup>3</sup> One additional course taken from the Kent Core Social Sciences courses in the following Arts and Sciences disciplines: Anthropology (ANTH), Geography (GEOG), Criminology and Justice Studies (CRIM), Peace and Conflict Studies (PACS), Political Science (POL), Psychology (PSYC) or Sociology (SOC). The course may not be from the student's major.

## Graduation Requirements

Minimum Major GPA	Minimum Overall GPA
2.000	2.000

- To fulfill the diversity requirement: students must take a domestic diversity course that is not an ANTH course.

## Foreign Language College Requirement

Students pursuing the Bachelor of Arts degree in the College of Arts and Sciences must complete 14-16 credit hours of foreign language.<sup>1</sup>

To complete the requirement, students have the equivalent of Elementary I and II in any language, plus one of the following options:

- Intermediate I and II of the same language<sup>2</sup>
- Elementary I and II of a second language
- Any combination of two courses from the following list:
  - Intermediate I of the same language
  - MCLS 10001 INTRODUCTION TO STRUCTURAL CONCEPTS FOR LANGUAGE STUDENTS
  - MCLS 20091 VARIABLE CONTENT SEMINAR IN GLOBAL LITERACY: CASE STUDIES
  - MCLS 21417 MULTICULTURALISM IN TODAY'S GERMANY (DIVG)
  - MCLS 28404 THE LATIN AMERICAN EXPERIENCE (DIVG)

<sup>1</sup> All students with prior foreign language experience should take the foreign language placement test to determine the appropriate level at which to start. Some students may begin beyond the Elementary I level and will complete the requirement with fewer credit hours and fewer courses. This may be accomplished by (1) passing a course beyond Elementary I through Intermediate II level; (2) receiving credit through Credit by Exam (CBE), Advanced Placement (AP), International Baccalaureate (IB) or College Level Examination Program (CLEP); or (3) being designated a 'native speaker' of a non-English language (consult with the College of Arts and Sciences Advising Office for additional information). When students complete the requirement with fewer than 14 credit hours and four courses, they will complete remaining credit hours with general electives.

<sup>2</sup> Certain majors, concentrations and minors may require specific languages, limit the languages from which a student may choose or require coursework through Intermediate II. Students who plan to pursue graduate study may need particular language coursework.

## Roadmap

This roadmap is a recommended semester-by-semester plan of study for this major. However, courses designated as critical (!) must be completed in the semester listed to ensure a timely graduation.

Semester One		Credits
!	ANTH 18210 GLOBAL CULTURAL DIVERSITY: or ANTHROPOLOGICAL PERSPECTIVES (DIVG) ANTH 18420 (KSS) or INTRODUCTION TO ARCHAEOLOGY (DIVG) (KSS)	3
	UC 10097 DESTINATION KENT STATE: FIRST YEAR EXPERIENCE	1
	Foreign Language	4
	Kent Core Requirement	3
	Kent Core Requirement	3
Credit Hours		14
Semester Two		Credits
!	ANTH 18210 GLOBAL CULTURAL DIVERSITY: or ANTHROPOLOGICAL PERSPECTIVES (DIVG) ANTH 18420 (KSS) or INTRODUCTION TO ARCHAEOLOGY (DIVG) (KSS)	3
	Foreign Language	4
	Kent Core Requirement	3
	Kent Core Requirement	3
	Kent Core Requirement	3
Credit Hours		16
Semester Three		Credits
	Anthropology (ANTH) Upper-Division Elective (30000 or 40000 level)	3
	Foreign Language	3
	Kent Core Requirement	3
	Kent Core Requirement	3
	Kent Core Requirement	3
Credit Hours		15
Semester Four		Credits
!	ANTH 18630 HUMAN EVOLUTION (KBS)	3
	ANTH 18631 ISSUES IN HUMAN EVOLUTION (KBS) (KLAB)	1
	Foreign Language	3
	Kent Core Requirement	3
	College General Requirement	3
	General Electives	3
Credit Hours		16
Semester Five		Credits
	ANTH 48001 QUALITATIVE RESEARCH METHODS IN ANTHROPOLOGY or ANTH 38490 or QUANTITATIVE ANTHROPOLOGY	3
	Archaeology Electives	3
	College General Requirement	3
	General Electives	6
Credit Hours		15
Semester Six		Credits
	Cultural Anthropology Electives	3
	Anthropology (ANTH) Upper-Division Elective (30000 or 40000 level)	3
	General Electives	9
Credit Hours		15

<b>Semester Seven</b>	
! Biological Anthropology Electives	3
Anthropology (ANTH) Upper-Division Elective (30000 or 40000 level)	3
General Electives	9
Credit Hours	15
<b>Semester Eight</b>	
Anthropology (ANTH) Upper-Division Elective (30000 or 40000 level)	3
General Electives	11
Credit Hours	14
Minimum Total Credit Hours:	120

## Anthropology - B.S.

### College of Arts and Sciences

Department of Anthropology  
226 Lowry Hall  
Kent Campus  
330-672-4363  
[www.kent.edu/anthropology](http://www.kent.edu/anthropology)

## Description

The Bachelor of Science degree in Anthropology is for students who wish to acquire in-depth training in archaeology and biological anthropology. The program is more structured than the B.A. degree and provides students with methods and theory that will prepare them for graduate school and future careers in the discipline.

The Anthropology major comprises the following concentrations:

- The **Archaeology** concentration provides students with in-depth training in analysis and field opportunities, as well as coursework in archeological theory and cultural ecology. The program emphasizes the interdisciplinary nature of archaeology. Students take courses in geography (GIS mapping and satellite imagery), geology, mathematics and chemistry. The program features hands-on training using the latest technologies, including digital recording and mapping equipment, remote sensing and geographic information systems. Regional areas of specialization include Mesoamerica and eastern North America.
- The **Biological Anthropology** concentration trains students in aspects of evolutionary theory, human evolution and human variation. Coursework includes studies of living primates, their anatomy, behavior, ecology and conservation. Genetics and neurobiology labs are available for undergraduate (and graduate student) training. Additionally, the freshmen human evolution laboratory enhances the learning process in the biological aspects of human nature.

### Fully Offered At:

- Kent Campus

## Admission Requirements

The university affirmatively strives to provide educational opportunities and access to students with varied backgrounds, those with special talents and adult students who graduated from high school three or more years ago.

**Freshman Students on the Kent Campus:** The freshman admission policy on the Kent Campus is selective. Admission decisions are based upon the following: cumulative grade point average, ACT and/or SAT scores, strength of high school college preparatory curriculum and grade trends. The Admissions Office at the Kent Campus may defer the admission of students who do not meet admissions criteria but who demonstrate areas of promise for successful college study. Deferred applicants may begin their college coursework at one of seven regional campuses of Kent State University. For more information on admissions, including additional requirements for some academic programs, visit the admissions website for new freshmen.

**Freshman Students on the Regional Campuses:** Kent State campuses at Ashtabula, East Liverpool, Geauga, Salem, Stark, Trumbull and Tuscarawas, as well as the Regional Academic Center in Twinsburg, have open enrollment admission for students who hold a high school diploma, GED or equivalent.

### English Language Proficiency Requirements for International Students:

All international students must provide proof of English language proficiency (unless they meet specific exceptions) by earning a minimum 525 TOEFL score (71 on the Internet-based version), minimum 75 MELAB score, minimum 6.0 IELTS score or minimum 48 PTE score, or by completing the ESL level 112 Intensive Program. For more information on international admission, visit the Office of Global Education's admission website.

**Transfer, Transitioning and Former Students:** For more information about admission criteria for transfer, transitioning and former students, please visit the admissions website.

## Program Learning Outcomes

Graduates of this program will be able to:

1. Acquire a foundational view of human cultures and an extensive knowledge base of diverse human behavior
2. Demonstrate broad skills in social, physical and biological sciences
3. Understand how social scientists think and apply their findings.

Graduates of the Archaeology concentration will be able to:

1. Learn how anthropologists investigate the past combining the methods of social and natural scientists.
2. Demonstrate comprehension of anthropology's special role in making archaeology, particularly the study of the ancient Americas, come to life and become relevant for them.
3. Gain a special appreciation of archaeology's other mandate—the need to conserve the precious heritage of the archaeological record, both in the New World and the Old.
4. Demonstrate thorough knowledge of general chemistry and fundamental mathematics, as well as specific areas of geology and geography.

Graduates of the Biological Anthropology concentration will be able to:

1. Demonstrate an understanding of biological anthropology as the most relevant evolution science, the one which gives them an appreciation of their place in nature.
2. See the two dimensions of human evolution and adaptation: a global one (modern human variation) and a deep temporal one (human origins). Both dimensions require an appreciation of the neo-Darwinian theory of evolution, which includes both the process of

natural selection and the roles which genetics and developmental biology play.

- Demonstrate thorough knowledge of general chemistry and fundamental mathematics, as well as specific areas in the biological sciences.

## University Requirements

All students in a bachelor's degree program at Kent State University must complete the following university requirements for graduation.

**NOTE:** University requirements may be fulfilled in this program by specific course requirements. Please see Program Requirements for details.

Destination Kent State: First Year Experience	1
Course is not required for students with 25 transfer credits, excluding College Credit Plus, or age 21+ at time of admission.	
Diversity Domestic/Global (DIVD/DIVG)	2 courses
Students must successfully complete one domestic and one global course, of which one must be from the Kent Core.	
Experiential Learning Requirement (ELR)	varies
Students must successfully complete one course or approved experience.	
Kent Core (see table below)	36-37
Writing-Intensive Course (WIC)	1 course
Students must earn a minimum C grade in the course.	
Upper-Division Requirement	39 (or 42)
Students must successfully complete 39 upper-division (numbered 30000 to 49999) credit hours to graduate. Students in a B.A. and/or B.S. degree in the College of Arts and Sciences must complete 42 upper-division credit hours.	
Total Credit Hour Requirement	120
Some bachelor's degrees require students to complete more than 120 credit hours.	

## Kent Core Requirements

Kent Core Composition (KCOMP)	6
Kent Core Mathematics and Critical Reasoning (KMCR)	3
Kent Core Humanities and Fine Arts (KHUM/KFA) (min one course each)	9
Kent Core Social Sciences (KSS) (must be from two disciplines)	6
Kent Core Basic Sciences (KBS/KLAB) (must include one laboratory)	6-7
Kent Core Additional (KADL)	6
<b>Total Credit Hours:</b>	<b>36-37</b>

## Program Requirements

### Major Requirements

Code	Title	Credit Hours
<b>Major Requirements (courses count in major GPA)</b>		
ANTH 18210	GLOBAL CULTURAL DIVERSITY: ANTHROPOLOGICAL PERSPECTIVES (DIVG) (KSS)	3
ANTH 18420	INTRODUCTION TO ARCHAEOLOGY (DIVG) (KSS)	3
ANTH 18630	HUMAN EVOLUTION (KBS)	3
ANTH 38480	ARCHAEOLOGICAL ANALYSIS (ELR) (WIC) <sup>1</sup>	3
ANTH 38490	QUANTITATIVE ANTHROPOLOGY	3

ANTH 48212	KINSHIP AND SOCIAL ORGANIZATION (DIVG) <sup>1</sup>	3
or ANTH 48214	POLITICS OF CULTURE (ELR) (WIC)	
CHEM 10060	GENERAL CHEMISTRY I (KBS)	4
CHEM 10061	GENERAL CHEMISTRY II (KBS)	4
CHEM 10062	GENERAL CHEMISTRY I LABORATORY (KBS) (KLAB)	1
CHEM 10063	GENERAL CHEMISTRY II LABORATORY (KBS) (KLAB)	1
MATH 11022	TRIGONOMETRY (KMCR)	3
MATH 12002	ANALYTIC GEOMETRY AND CALCULUS I (KMCR)	5
Anthropology (ANTH) Upper-Division Electives (30000 or 40000 level)		15
Ancient Anthropology Electives, choose from the following:		3
ANTH 48225	ARCHAEOLOGY OF DEATH (ELR) (WIC)	
ANTH 48425	ANCIENT MESOAMERICA	
ANTH 48440	ARCHAEOLOGY OF ANCIENT OHIO	
ANTH 48450	ANCIENT CIVILIZATIONS	
Human Anthropology Electives, choose from the following:		3
ANTH 38680	PRIMATE SOCIETIES	
ANTH 48820	HUMAN MUSCULO-SKELETAL SYSTEM	
ANTH 48830	HUMAN BEHAVIORAL ECOLOGY AND EVOLUTION (DIVG) (ELR) (WIC) <sup>1</sup>	

<b>Additional Requirements (course do not count in major GPA)</b>		
UC 10097	DESTINATION KENT STATE: FIRST YEAR EXPERIENCE	1
Foreign Language (see Foreign Language College Requirement below)		8
Kent Core Composition		6
Kent Core Humanities and Fine Arts (minimum one course from each)		9
General Electives (total credit hours depends on earning 120 credit hours, including 42 upper-division credit hours)		19
<b>Concentrations</b>		
Choose from the following:		20
Archaeology		
Biological Anthropology		
Minimum Total Credit Hours:		120

<sup>1</sup> A minimum C grade must be earned to fulfill the writing-intensive requirement.

### Archaeology Concentration Requirements

Code	Title	Credit Hours
<b>Concentration Requirements (courses count in major GPA)</b>		
GEOG 10160	INTRODUCTION TO GEOGRAPHY	3
GEOG 29160	MAPPING OUR WORLD	3
GEOG 49070	GEOGRAPHIC INFORMATION SCIENCE	3-4
or GEOG 49080	ADVANCED GEOGRAPHIC INFORMATION SCIENCE	
or GEOG 49230	REMOTE SENSING	
GEOG 11040	HOW THE EARTH WORKS (KBS)	3
GEOG 11041	HOW THE EARTH WORKS LABORATORY (KBS) (KLAB)	1
GEOG 23063	EARTH MATERIALS I	4
or GEOG 32066	GEOMORPHOLOGY	
<b>Additional Requirements (courses do not count in major GPA)</b>		
General Elective		3
Minimum Total Credit Hours:		20

## Biological Anthropology Concentration Requirements

Code	Title	Credit Hours
<b>Concentration Requirements (courses count in major GPA)</b>		
BSCI 10120	BIOLOGICAL FOUNDATIONS (KBS) (KLAB)	4
BSCI 30140	CELL BIOLOGY	4
BSCI 30156	ELEMENTS OF GENETICS	3
BSCI 40163	EVOLUTION	3
Biology Electives, choose from the following:		3-4
BSCI 30360	GENERAL ECOLOGY	
BSCI 30519	VERTEBRATE EMBRYOLOGY AND DEVELOPMENTAL ANATOMY	
BSCI 40275	PLANT SYSTEMATICS AND EVOLUTION	
BSCI 40430	ANIMAL PHYSIOLOGY	
<b>Additional Requirements (courses do not count in major GPA)</b>		
Kent Core Social Sciences (cannot be ANTH)		3
Minimum Total Credit Hours:		20

## GRADUATION REQUIREMENTS

Minimum Major GPA	Minimum Overall GPA
2.00	2.00

- To fulfill the diversity requirement, students must take a domestic diversity course that is not an ANTH course.

### Foreign Language College Requirement

- Students pursuing the Bachelor of Science degree in the College of Arts and Sciences must complete 8 credit hours of foreign language.<sup>1</sup>
- Minimum Elementary I and II of the same language

<sup>1</sup> All students with prior foreign language experience should take the foreign language placement test to determine the appropriate level at which to start. Some students may begin their university foreign language experience beyond the Elementary I level and will complete the requirement with fewer credit hours and fewer courses. This may be accomplished by: (1) passing a course beyond the Elementary I through Intermediate II level or (2) receiving credit through Credit by Exam (CBE), the College Level Examination Program (CLEP), the Advanced Placement (AP) exam or credit through the International Baccalaureate (IB) program; or (3) being designated a 'native speaker' of a non-English language (consult with the College of Arts and Sciences Advising Office for additional information). When students complete the requirement with fewer than 8 credit hours and two courses, they will complete the remaining hours with general electives.

## Roadmaps

- Archaeology Concentration
- Biological Anthropology Concentration

## ARCHAEOLOGY CONCENTRATION

This roadmap is a recommended semester-by-semester plan of study for this major. However, courses designated as critical (!) must be completed in the semester listed to ensure a timely graduation.

<b>Semester One</b>		<b>Credits</b>
!	ANTH 18210 GLOBAL CULTURAL DIVERSITY: or ANTHROPOLOGICAL PERSPECTIVES (DIVG) ANTH 18420 (KSS) or INTRODUCTION TO ARCHAEOLOGY (DIVG) (KSS)	3
	CHEM 10060 GENERAL CHEMISTRY I (KBS)	4
	CHEM 10062 GENERAL CHEMISTRY I LABORATORY (KBS) (KLAB)	1
	GEOL 11040 HOW THE EARTH WORKS (KBS)	3
	GEOL 11041 HOW THE EARTH WORKS LABORATORY (KBS) (KLAB)	1
	UC 10097 DESTINATION KENT STATE: FIRST YEAR EXPERIENCE	1
	Kent Core Requirement	3
Credit Hours		16
<b>Semester Two</b>		
!	ANTH 18210 GLOBAL CULTURAL DIVERSITY: or ANTHROPOLOGICAL PERSPECTIVES (DIVG) ANTH 18420 (KSS) or INTRODUCTION TO ARCHAEOLOGY (DIVG) (KSS)	3
	CHEM 10061 GENERAL CHEMISTRY II (KBS)	4
	CHEM 10063 GENERAL CHEMISTRY II LABORATORY (KBS) (KLAB)	1
	Kent Core Requirement	3
	Kent Core Requirement	3
	Kent Core Requirement	3
Credit Hours		17
<b>Semester Three</b>		
	MATH 11022 TRIGONOMETRY (KMCR)	3
	Anthropology (ANTH) Upper-Division Electives (30000 or 40000 level)	3
	Foreign Language	4
	Kent Core Requirement	3
	General Electives	3
Credit Hours		16
<b>Semester Four</b>		
!	ANTH 18630 HUMAN EVOLUTION (KBS)	3
	MATH 12002 ANALYTIC GEOMETRY AND CALCULUS I (KMCR)	5
	Foreign Language	4
	General Electives	3
Credit Hours		15
<b>Semester Five</b>		
!	ANTH 38480 ARCHAEOLOGICAL ANALYSIS (ELR) (WIC) or QUANTITATIVE ANTHROPOLOGY ANTH 38490	3
	GEOG 10160 INTRODUCTION TO GEOGRAPHY	3
!	Ancient Anthropology Elective	3
	General Electives	6
Credit Hours		15

<b>Semester Six</b>		
!	ANTH 38480 ARCHAEOLOGICAL ANALYSIS (ELR) (WIC) or QUANTITATIVE ANTHROPOLOGY ANTH 38490	3
!	ANTH 48212 KINSHIP AND SOCIAL ORGANIZATION (DIVG) or POLITICS OF CULTURE (ELR) (WIC) ANTH 48214	3
	GEOG 29160 MAPPING OUR WORLD	3
!	Human Anthropology Elective	3
	General Electives	3
Credit Hours		15
<b>Semester Seven</b>		
	GEOG 49070 GEOGRAPHIC INFORMATION SCIENCE or ADVANCED GEOGRAPHIC INFORMATION GEOG 49080 SCIENCE or REMOTE SENSING GEOG 49230	3-4
	Anthropology (ANTH) Upper-Division Electives (30000 or 40000 level)	6
	General Electives	5
Credit Hours		14
<b>Semester Eight</b>		
	GEOG 23063 EARTH MATERIALS I or GEOMORPHOLOGY GEOG 32066	4
	Anthropology (ANTH) Upper-Division Electives (30000 or 40000 level)	6
	General Electives	2
Credit Hours		12
Minimum Total Credit Hours:		120



## Biological Anthropology Concentration

This roadmap is a recommended semester-by-semester plan of study for this major. However, courses designated as critical (!) must be completed in the semester listed to ensure a timely graduation.

Semester One		Credits
!	ANTH 18210 GLOBAL CULTURAL DIVERSITY: or ANTHROPOLOGICAL PERSPECTIVES (DIVG) ANTH 18420 (KSS) or INTRODUCTION TO ARCHAEOLOGY (DIVG) (KSS)	3
	BSCI 10120 BIOLOGICAL FOUNDATIONS (KBS) (KLAB)	4
	MATH 11022 TRIGONOMETRY (KMCR)	3
	UC 10097 DESTINATION KENT STATE: FIRST YEAR EXPERIENCE	1
	Kent Core Requirement	3
	Kent Core Requirement	3
	Credit Hours	17
Semester Two		Credits
!	ANTH 18210 GLOBAL CULTURAL DIVERSITY: or ANTHROPOLOGICAL PERSPECTIVES (DIVG) ANTH 18420 (KSS) or INTRODUCTION TO ARCHAEOLOGY (DIVG) (KSS)	3
	MATH 12002 ANALYTIC GEOMETRY AND CALCULUS I (KMCR)	5
	Kent Core Requirement	3
	Kent Core Requirement	3
	Kent Core Requirement	3
	Credit Hours	17
Semester Three		Credits
	CHEM 10060 GENERAL CHEMISTRY I (KBS)	4
	CHEM 10062 GENERAL CHEMISTRY I LABORATORY (KBS) (KLAB)	1
	Foreign Language	4-5
	Kent Core Requirement	3
	General Electives	3
	Credit Hours	15
Semester Four		Credits
!	ANTH 18630 HUMAN EVOLUTION (KBS)	3
	CHEM 10061 GENERAL CHEMISTRY II (KBS)	4
	CHEM 10063 GENERAL CHEMISTRY II LABORATORY (KBS) (KLAB)	1
	Foreign Language	4-5
	General Electives	3
	Credit Hours	15
Semester Five		Credits
	ANTH 38480 ARCHAEOLOGICAL ANALYSIS (ELR) (WIC) or or QUANTITATIVE ANTHROPOLOGY ANTH 38490	3
	ANTH 48212 KINSHIP AND SOCIAL ORGANIZATION (DIVG) or or POLITICS OF CULTURE (ELR) (WIC) ANTH 48214	3
	BSCI 30140 CELL BIOLOGY	4
	General Electives	5
	Credit Hours	15
Semester Six		Credits
	ANTH 38480 ARCHAEOLOGICAL ANALYSIS (ELR) (WIC) or or QUANTITATIVE ANTHROPOLOGY ANTH 38490	3

BSCI 30156 ELEMENTS OF GENETICS or BSCI 40163 or EVOLUTION	3
Ancient Anthropology Elective	3
General Electives	6
Credit Hours	15
Semester Seven	
BSCI 30156 ELEMENTS OF GENETICS or BSCI 40163 or EVOLUTION	3
Anthropology (ANTH) Upper-Division Electives (30000 or 40000 level)	9
General Electives	2
Credit Hours	14
Semester Eight	
Human Anthropology Elective	3
Biology Elective	3-4
Anthropology (ANTH) Upper-Division Electives (30000 or 40000 level)	6
Credit Hours	12
Minimum Total Credit Hours:	120

## Anthropology - Minor

**College of Arts and Sciences**  
Department of Anthropology  
226 Lowry Hall  
Kent Campus  
330-672-4363  
[www.kent.edu/anthropology](http://www.kent.edu/anthropology)

## Description

The Anthropology minor gives students a strong liberal arts background combined with an awareness and understanding of ethnic and cultural differences and similarities—skills sought after by businesses worldwide.

## Fully Offered At:

- Kent Campus

## Admission Requirements

Admission to a minor is open to students declared in a bachelor's degree, the A.A.B. or A.A.S. degree or the A.T.S. degree (not Individualized Program major). Students declared only in the A.A. or A.S. degree or the A.T.S. degree in Individualized Program may not declare a minor. Students may not pursue a minor and a major in the same discipline.

## Minor Requirements

Code	Title	Credit Hours
<b>Minor Requirements</b>		
Minor Electives, choose from the following:		6
ANTH 18210	GLOBAL CULTURAL DIVERSITY: ANTHROPOLOGICAL PERSPECTIVES (DIVG) (KSS)	
ANTH 18420	INTRODUCTION TO ARCHAEOLOGY (DIVG) (KSS)	
ANTH 18630	HUMAN EVOLUTION (KBS)	

Anthropology (ANTH) Elective	3
Anthropology Upper-Division Electives (ANTH 30000 or 40000 level)	9
Minimum Total Credit Hours:	18

## Graduation Requirements

Minimum Minor GPA	Minimum Overall GPA
2.000	2.000

- Students must complete at least two upper-division (30000 or 40000 level) courses in the minor at Kent State on a graded basis (A-F).
- Minimum 6 credit hours in the minor must be upper-division coursework (30000 and 40000 level).
- Minimum 6 credit hours in the minor must be outside of the course requirements for any major or other minor the student is pursuing.
- Minimum 50 percent of the total credit hours for the minor must be taken at Kent State (in residence).

## Forensic Anthropology - Minor

### College of Arts and Sciences

Department of Anthropology

226 Lowry Hall

Kent Campus

330-672-4363

[www.kent.edu/anthropology](http://www.kent.edu/anthropology)

## Description

The Forensic Anthropology minor introduces students to analyses of skeletal remains, bodily fluids and DNA profiles associated with missing persons cases and violent crimes. Courses focus on the science of forensic anthropology and the presentation of such data in the courtroom.

### Fully Offered At:

- Kent Campus

## Admission Requirements

Admission to a minor is open to students declared in a bachelor's degree, the A.A.B. or A.A.S. degree or the A.T.S. degree (not Individualized Program major). Students declared only in the A.A. or A.S. degree or the A.T.S. degree in Individualized Program may not declare a minor. Students may not pursue a minor and a major in the same discipline.

## Minor Requirements

Code	Title	Credit Hours
<b>Minor Requirements</b>		
ANTH 18230	INTRODUCTION TO FORENSIC ANTHROPOLOGY	3
ANTH 28300	INTRODUCTION TO FORENSIC GENETICS	3
CRIM 12000	INTRODUCTION TO JUSTICE STUDIES	3
Anthropology Electives, choose from the following:		6
ANTH 48023	FORENSIC ARCHAEOLOGY FIELD SCHOOL (ELR)	
ANTH 48225	ARCHAEOLOGY OF DEATH (ELR) (WIC)	

ANTH 48300	ADVANCED FORENSIC GENETICS	
ANTH 48820	HUMAN MUSCULO-SKELETAL SYSTEM	
Criminology and Justice Studies Elective, choose from the following:		3
CRIM 22301	THE INVESTIGATIVE PROCESS	
CRIM 33200	CRIMINAL LAW	
CRIM 34200	CRIMINAL PROCEDURES AND EVIDENCE	
CRIM 46200	ADVANCED CRIMINAL AND LEGAL ISSUES	
CRIM 47211	COURT FUNCTIONS	

Minimum Total Credit Hours: 18

## Graduation Requirements

Minimum Minor GPA	Minimum Overall GPA
2.000	2.000

- Students must complete at least two upper-division (30000 or 40000 level) courses in the minor at Kent State on a graded basis (A-F).
- Minimum 6 credit hours in the minor must be upper-division coursework (30000 and 40000 level).
- Minimum 6 credit hours in the minor must be outside of the course requirements for any major or other minor the student is pursuing.
- Minimum 50 percent of the total credit hours for the minor must be taken at Kent State (in residence).

## Medical Anthropology - Minor

### College of Arts and Sciences

Department of Anthropology

226 Lowry Hall

Kent Campus

330-672-4363

[www.kent.edu/anthropology](http://www.kent.edu/anthropology)

## Description

The Medical Anthropology minor is attractive to any student in nursing, pre-med, public health, psychology and related disciplines. It is designed to give students the skills needed to provide culturally sensitive and effective health care.

Medical Anthropology is the fastest growing sub-discipline of anthropology with a variety of application. It is a broad field that includes medical and psychiatric anthropology, global health, disability, social suffering, humanitarianism, death and dying, caregiving, public health, medical ethics, human rights and medical humanities.

### Fully Offered At:

- Kent Campus

## Admission Requirements

Admission to a minor is open to students declared in a bachelor's degree, the A.A.B. or A.A.S. degree or the A.T.S. degree (not Individualized Program major). Students declared only in the A.A. or A.S. degree or the A.T.S. degree in Individualized Program may not declare a minor. Students may not pursue a minor and a major in the same discipline.

## Minor Requirements

Code	Title	Credit Hours
<b>Minor Requirements</b>		
ANTH 18210	GLOBAL CULTURAL DIVERSITY: ANTHROPOLOGICAL PERSPECTIVES (DIVG) (KSS)	3
ANTH 18630	HUMAN EVOLUTION (KBS)	3
ANTH 48250	MEDICAL ANTHROPOLOGY (DIVG)	3
Anthropology Electives, choose from the following:		3
ANTH 48150	RELIGION: A SEARCH FOR A MEANING	
ANTH 48245	PSYCHOLOGICAL ANTHROPOLOGY (DIVG)	
ANTH 48360	ANTHROPOLOGY OF GENDER AND SEXUALITY (DIVG)	
ANTH 48623	HUMAN VARIATION	
ANTH 48820	HUMAN MUSCULO-SKELETAL SYSTEM	
Minor Electives, choose from the following		6
GEOG 42052	MEDICAL GEOGRAPHY	
GEOG 49072	GEOGRAPHIC INFORMATION SCIENCE AND HEALTH	
HIST 31550	MEDICINE IN THE MODERN WORLD SINCE 1500	
PH 10002	INTRODUCTION TO GLOBAL HEALTH (DIVG)	
PH 20001	ESSENTIALS OF EPIDEMIOLOGY	
PH 22001	PLAGUES AND PANDEMICS: HOW INFECTION SHAPED CULTURE AND HISTORY	
SOC 22570	UNDERSTANDING DIFFERENCES AND INEQUALITY	
SOC 32570	INEQUALITY IN SOCIETIES (DIVD)	
SOC 42010	DEATH AND DYING	
SOC 42400	SELF AND IDENTITY	
SOC 42562	SOCIOLOGY OF MENTAL ILLNESS	
SOC 42563	SOCIOLOGY OF HEALTH AND HEALTH CARE	
SOC 44010	SOCIOLOGICAL PERSPECTIVES IN MEDICINE	
PSYC 31532	SOCIAL PSYCHOLOGY	
PSYC 41364	DRUGS AND BEHAVIOR	
Minimum Total Credit Hours:		18

## Graduation Requirements

Minimum Minor GPA	Minimum Overall GPA
2.000	2.000

- Students must complete at least two upper-division (30000 or 40000 level) courses in the minor at Kent State on a graded basis (A-F).
- Minimum 6 credit hours in the minor must be upper-division coursework (30000 and 40000 level).
- Minimum 6 credit hours in the minor must be outside of the course requirements for any major or other minor the student is pursuing.
- Minimum 50 percent of the total credit hours for the minor must be taken at Kent State (in residence).

## Department of Biological Sciences

**College of Arts and Sciences**  
 Department of Biological Sciences  
 256 Cunningham Hall  
 Kent Campus

330-672-3613  
 kentbiology@kent.edu  
 www.kent.edu/biology

## Undergraduate Programs

- Biology - B.A.
- Biology - B.S.
- Biotechnology - B.S.
- Botany - B.S.
- Environmental and Conservation Biology - B.S.
- Medical Technology - B.S.
- Neuroscience - B.S.
- Zoology - B.S.

## Minors

- Biological Sciences

## Graduate Programs

- Biological Sciences - Botany - M.S.
- Biological Sciences - Botany - Ph.D.
- Biological Sciences - Cell Biology and Molecular Genetics - M.S.
- Biological Sciences - Cell Biology and Molecular Genetics - Ph.D.
- Biological Sciences - Ecology and Evolutionary Biology - M.S.
- Biological Sciences - Ecology and Evolutionary Biology - Ph.D.
- Biological Sciences - Integrative Physiology and Neurobiology - M.S.
- Biological Sciences - Integrative Physiology and Neurobiology - Ph.D.
- Biology - M.A.
- Biology - M.S.

## Department of Biological Sciences Faculty

- Bade, Darren L. (2006), Associate Professor, Ph.D., University of Wisconsin, 2004
- Bagavandoss, Paul (1993), Associate Professor, Ph.D., University of Michigan, Ann Arbor, 1986
- Bahlai, Christine (2017), Assistant Professor, Ph.D., University Of Guelph, 2012
- Bailey, Erin L. (2012), Associate Professor, Ph.D., Kent State University, 2001
- Blackwood, Christopher B. (2006), Professor, Ph.D., Michigan State University, 2001
- Blank, James L. (1986), Professor and College Dean, Ph.D., Indiana University, 1982
- Breidenbaugh, Caralisa (2010), Associate Lecturer, M.S., Youngstown State University, 2008
- Brennan, Michael J. (2004), Senior Lecturer, M.Ed., Edinboro University of Pennsylvania, 1985
- Caldwell, Heather K. (2007), Professor, Ph.D., Georgia State University, 2004
- Carlson, Chris R. (1991), Associate Professor, M.S., Michigan State University, 1981
- Casadesus Smith, Gemma (2014), Professor, Ph.D., Tufts University, 2003

- Case, Andrea L. (2005), Associate Professor, Ph.D., University of Toronto, 2000
- Chen, Yijing (2006), Assistant Professor, Ph.D., University of Wisconsin, Madison, 1997
- Chung, Wilson C. (2011), Associate Professor, Ph.D., University of Amsterdam, 2003
- Clements, Robert J. (1997), Assistant Professor, Ph.D., Kent State University, 2004
- Costello, David M. (2014), Assistant Professor, Ph.D., University of Notre Dame, 2010
- Damron, Derek S. (2007), Professor, Ph.D., Kent State University, 1991
- Dankovich, Daniel S. (2010), Lecturer
- De Szalay, Ferenc A. (1997), Associate Professor, Ph.D., University of California, Berkeley, 1995
- Delorme, Thierry A. (2004), Associate Professor, Ph.D., University of Lyon, 1997
- Ding, Qunxing (2007), Associate Professor, Ph.D., Beijing University of Agriculture, 1994
- Eichler, Sarah E. (2019), Assistant Professor, Ph.D., University of Tennessee, Knoxville
- Eisermann, Kurtis (2002), Assistant Professor
- Engohang-Ndong, Jean (2010), Associate Professor
- Fraizer, Gail C. (2001), Associate Professor, Ph.D., University of California, Berkeley, 1983
- Freeman, Ernest J. (1990), Associate Professor & School Director, Ph.D., Kent State University, 1991
- Gerbig, Donald G. (1996), Associate Professor, Ph.D., University of Tennessee, Knoxville, 1991
- Glass, David J. (1984), Professor
- Grafton, Brian W. (1994), Professor, Ph.D., Kent State University, 2004
- Groff, Chi-Hua (2009), Assistant Professor, Ph.D., Wayne State University, 1997
- Gupta, Sanhita (2009), Associate Professor, Ph.D., Case Western Reserve University, 1998
- Hamilton, Robert (2005), Associate Professor, Ph.D., Rutgers, State University of New Jersey, 2006
- Hoeh, Walter R. (1998), Associate Professor, Ph.D., University of Michigan, Ann Arbor, 1991
- Huang, Songping D. (1998), Professor, Ph.D., Michigan State University, 1993
- Johnson, John D. (2007), Associate Professor, Ph.D., University of Colorado, Boulder, 2002
- Kershner, Mark W. (1999), Associate Professor, Ph.D., The Ohio State University, 1998
- Kim, Min-Ho (2012), Associate Professor, Ph.D., University of Toledo, 2002
- Kim, Woo-Yang (2018), Associate Professor
- Kinsman-Costello, Lauren E. (2013), Assistant Professor, Ph.D., Michigan State University, 2012
- Kooijman, Edgar (1998), Associate Professor, Ph.D., Utrecht University, 2006
- Koski, Gary K. (2010), Professor, Ph.D., Johns Hopkins University, 1995
- Kurokawa, Manabu (2017), Assistant Professor, Ph.D., Univ Of Massachusetts Amherst, 2004
- Lamichhaney, Sangeet (2019), Assistant Professor, Ph.D., Uppsala University, 2016
- Leff, Adam A. (1994), Associate Professor, D.V.M., University of Georgia, 1991
- Leff, Laura G. (1994), Professor & Department Chair, Ph.D., University of Georgia, 1992
- Lehnert, Matthew S. (2012), Associate Professor, Ph.D., University of Florida, 2010
- Lovell, John A. (1995), Associate Professor, Ph.D., Kent State University, 1993
- Marcinkiewicz, Jennifer L. (1995), Associate Professor & Director, Ph.D., University of Illinois at Chicago
- McDonough, Jennifer A. (2006), Associate Professor
- Meek, Leah M. (1995), Senior Lecturer
- Mintz, Eric M. (2002), Professor & Associate Dean, Ph.D., University of California, Santa Cruz, 1995
- Model, Michael A. (2004), Associate Professor, Ph.D., University of Michigan, Ann Arbor, 1995
- Mou, Xiaozhen (2008), Associate Professor, Ph.D., University of Georgia, 2006
- Mueller, Devin (2018), Associate Professor, Ph.D., Concordia University, 2005
- Naji, Josephine W. (1988), Associate Professor, Ph.D., Kent State University, 1994
- Novak-Barnett, Colleen M. (2009), Associate Professor, Ph.D., Michigan State University, 1999
- Piet, Richard (2019), Assistant Professor
- Piontkivska, Olena (2005), Associate Professor, Ph.D., Pennsylvania State University, 2003
- Popescu, Daniela C. (2013), Associate Professor, Ph.D., Vanderbilt University, 2006
- Redfearn, James C. (2006), Assistant Professor, Ph.D., Kent State University, 2016
- Rocha, Oscar J. (2004), Associate Professor, Ph.D., Penn State University, 1990
- Russell, Mary A. (2003), Associate Professor, Ph.D., The Ohio State University, 1996
- Shilling, Michael (2008), Assistant Professor, Ph.D., Kent State University, 2013
- Smith, Gregory A. (2014), Assistant Professor, Ph.D., University of Oklahoma, 2007
- Steele, Louise (2012), Assistant Professor, Ph.D., Case Western Reserve University, 2002
- Stone, Jonathan F. (2003), Associate Professor, B.S., University of Akron, 1985
- Tinkler, Gregory P. (2013), Associate Professor, Ph.D., Wake Forest University, 2005
- Vash, Sarah R. (2004), Senior Lecturer, M.S., Kent State University, 2003
- Veney, Sean L. (2004), Associate Professor, Ph.D., University of Virginia, Main Campus, 2000
- Vijayaraghavan, Srinivasan (1997), Professor
- Ward, David (2015), Professor, Ph.D., University of KwaZulu-Natal, 1988
- Welshhans, Kristy A. (2011), Assistant Professor

- Zhu, Haiyan (2010), Associate Professor, M.S., University of Kentucky, 1998

## Biological Sciences (BSCI)

### **BSCI 10001 HUMAN BIOLOGY (KBS) 3 Credit Hours**

Study of the scientific method and life's properties, emphasizing human biology. Topics include energy, genetics, reproduction, development disease, nutrition and physical fitness in humans. This course may not be used to fulfill major or minor requirements in the following programs: BA Biology, BS Biology, BS Botany, BS Environmental and Conservation Biology, BS Medical Technology, BS Biotechnology, BS Zoology, and the Biological Sciences minor.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Kent Core Basic Sciences, Transfer Module Natural Sciences

### **BSCI 10002 LIFE ON PLANET EARTH (KBS) 3 Credit Hours**

Explores the fascinating breadth of life on Earth including the unique ecology and survival strategies of animals, plants and microbes in their natural habitats. This course may not be used to fulfill major or minor requirements in the following programs: BA Biology, BS Biology, BS Botany, BS Environmental and Conservation Biology, BS Medical Technology, BS Biotechnology, BS Zoology, and the Biological Sciences minor.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Kent Core Basic Sciences, Transfer Module Natural Sciences

### **BSCI 10003 LABORATORY EXPERIENCE IN BIOLOGY (KBS) (KLAB) 1 Credit Hour**

Introductory college-level laboratory in biology for non-majors. This course may not be used to fulfill major or minor requirements in the following programs: BA Biology, BS Biology, BS Botany, BS Environmental and Conservation Biology, BS Medical Technology, BS Biotechnology, BS Zoology, and the Biological Sciences minor.

**Pre/corequisite:** BSCI 10001 or 10002.

**Schedule Type:** Laboratory

**Contact Hours:** 2 lab

**Grade Mode:** Standard Letter

**Attributes:** Kent Core Basic Sciences, Kent Core Basic Sciences Lab

### **BSCI 10005 ANATOMY FOR VETERINARY TECHNICIANS 5 Credit Hours**

Comparison and identification of anatomy and basic physiological functions of domestic animals: skeletal, muscles, integumentary, special sense organs, respiratory, digestive, urinary, reproductive, mammary glands, endocrine, nerves, circulatory, immune. Lecture 4 hours, laboratory 3 hours weekly. This course may not be used to fulfill major or minor requirements in the following programs: BA Biology, BS Biology, BS Botany, BS Environmental and Conservation Biology, BS Medical Technology, BS Biotechnology, BS Zoology, and the Biological Sciences minor.

**Prerequisite:** None.

**Schedule Type:** Laboratory, Lecture, Combined Lecture and Lab

**Contact Hours:** 5 other

**Grade Mode:** Standard Letter

### **BSCI 10110 BIOLOGICAL DIVERSITY (KBS) (KLAB) 4 Credit Hours**

This introductory course examines the biodiversity of life from its origins to present-day prokaryotes and eukaryotes; their behavior, ecology, and reproduction. Students must earn a final grade of at least C- in order to meet prerequisites for selected upper-division BSCI courses.

**Prerequisite:** None.

**Schedule Type:** Laboratory, Lecture, Combined Lecture and Lab

**Contact Hours:** 3 lecture, 2 lab

**Grade Mode:** Standard Letter

**Attributes:** Kent Core Basic Sciences, Kent Core Basic Sciences Lab, TAG Science

### **BSCI 10120 BIOLOGICAL FOUNDATIONS (KBS) (KLAB) 4 Credit Hours**

This introductory course examines the organization of life from subcellular biochemistry and molecular biology, to genetics, bioenergetics and system homeostasis. Three hours of lecture and three hours of lab weekly. Students must earn a final grade of at least C- in order to meet prerequisites for selected upper-division BSCI courses.

**Prerequisite:** None.

**Schedule Type:** Laboratory, Lecture, Combined Lecture and Lab

**Contact Hours:** 3 lecture, 3 lab

**Grade Mode:** Standard Letter

**Attributes:** Kent Core Basic Sciences, Kent Core Basic Sciences Lab, TAG Science

### **BSCI 10195 SPECIAL TOPICS IN BIOLOGY 1-3 Credit Hours**

(Repeatable for credit) Selected subjects and/or themes in biology.

**Prerequisite:** Special approval.

**Schedule Type:** Lecture

**Contact Hours:** 1-3 lecture

**Grade Mode:** Standard Letter

### **BSCI 11010 FOUNDATIONAL ANATOMY AND PHYSIOLOGY I (KBS) (KLAB) 3 Credit Hours**

Anatomy and physiology to include organization of the human body, cells, tissues, organs and systems, integumentary, skeletal, muscular and respiratory systems and overviews of the nervous and circulatory system. This course is taught on Kent State's regional campuses for associate degree programs. This course may not be used to fulfill major or minor requirements in the following programs: BA Biology, BS Biology, BS Botany, BS Environmental and Conservation Biology, BS Medical Technology, BS Biotechnology, BS Zoology, and the Biological Sciences minor.

**Prerequisite:** Special approval.

**Schedule Type:** Laboratory, Lecture, Combined Lecture and Lab

**Contact Hours:** 2 lecture, 3 lab

**Grade Mode:** Standard Letter

**Attributes:** Kent Core Basic Sciences, Kent Core Basic Sciences Lab

### **BSCI 11020 FOUNDATIONAL ANATOMY AND PHYSIOLOGY II (KBS) (KLAB) 3 Credit Hours**

Anatomy and physiology of the circulatory, digestive, urinary, nervous, endocrine and reproductive systems. This course is taught on Kent State's regional campuses for associate degree programs. This course may not be used to fulfill major or minor requirements in the following programs: BA Biology, BS Biology, BS Botany, BS Environmental and Conservation Biology, BS Medical Technology, BS Biotechnology, BS Zoology, and the Biological Sciences minor.

**Prerequisite:** BSCI 11010; and special approval.

**Schedule Type:** Laboratory, Lecture, Combined Lecture and Lab

**Contact Hours:** 2 lecture, 3 lab

**Grade Mode:** Standard Letter

**Attributes:** Kent Core Basic Sciences, Kent Core Basic Sciences Lab



**BSCI 16001 HORTICULTURAL BOTANY 3 Credit Hours**

To provide students with an understanding of the basic anatomy and physiology and growth characteristics of plants. Offered only at the Geauga and Salem campuses. This course may not be used to fulfill major or minor requirements in the following programs: BA Biology, BS Biology, BS Botany, BS Environmental and Conservation Biology, BS Medical Technology, BS Biotechnology, BS Zoology, and the Biological Sciences minor.

**Prerequisite:** None.

**Schedule Type:** Laboratory, Lecture

**Contact Hours:** 2 lecture, 3 lab

**Grade Mode:** Standard Letter

**BSCI 20019 BIOLOGICAL STRUCTURE AND FUNCTION 4 Credit Hours**

Basic design of human systems emphasizing the physiochemical and cellular bases of organ-system structure, function and development. This course may not be used to fulfill major or minor requirements in the following programs: BA Biology, BS Biology, BS Botany, BS Environmental and Conservation Biology, BS Medical Technology, BS Biotechnology, BS Zoology, and the Biology minor.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 4 lecture

**Grade Mode:** Standard Letter

**BSCI 20021 BASIC MICROBIOLOGY 3 Credit Hours**

Principles of microorganisms having a direct relationship on the health and well-being of humans. This course may not be used to fulfill major or minor requirements in the following programs: BA Biology, BS Biology, BS Botany, BS Environmental and Conservation Biology, BS Medical Technology, BS Biotechnology, BS Zoology, and the Biological Sciences minor.

**Prerequisite:** BSCI 20019; or BSCI 21010; or BSCI 10005; or BSCI 11010; or ATTR 25057; or EXSC 25057; and CHEM 10050 or 10052 or 10055 or 10060.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**BSCI 20022 BASIC MICROBIOLOGY LABORATORY 1 Credit Hour**

Laboratory experience in microbiology. This course may not be used to fulfill major or minor requirements in the following programs: BA Biology, BS Biology, BS Botany, BS Environmental and Conservation Biology, BS Medical Technology, BS Biotechnology, BS Zoology, and the Biological Sciences minor.

**Corequisite:** BSCI 20021.

**Schedule Type:** Laboratory

**Contact Hours:** 3 lab

**Grade Mode:** Standard Letter

**BSCI 20195 SPECIAL TOPICS IN BIOLOGY 1-3 Credit Hours**

(Repeatable for credit) Selected subjects and/or themes in Biology.

**Prerequisite:** Special approval.

**Schedule Type:** Lecture

**Contact Hours:** 1-3 lecture

**Grade Mode:** Standard Letter

**BSCI 20196 INTRODUCTION TO INDIVIDUAL INVESTIGATION 1-2 Credit Hours**

(Repeatable for credit) Introduction to research in the biological sciences under the direction of a BSCI faculty mentor.

**Prerequisite:** Minimum C grade in 8 hours of BSCI courses; and departmental and faculty mentor approvals required.

**Schedule Type:** Individual Investigation

**Contact Hours:** 1-2 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**BSCI 21010 ANATOMY AND PHYSIOLOGY I (KBS) (KLAB) 4 Credit Hours**

Anatomy, physiological chemistry, cytology, tissues, and homeostatic mechanisms of the integumentary, skeletal, nervous, muscular, and sensory systems. This course may not be used to fulfill major or minor requirements in the following programs: BA Biology, BS Biology, BS Botany, BS Environmental and Conservation Biology, BS Medical Technology, BS Biotechnology, BS Zoology, and the Biological Sciences minor.

**Prerequisite:** None.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 3 lecture, 3 lab

**Grade Mode:** Standard Letter

**Attributes:** Kent Core Basic Sciences, Kent Core Basic Sciences Lab

**BSCI 21020 ANATOMY AND PHYSIOLOGY II 4 Credit Hours**

Anatomy and physiological processes as related to the following organ systems: endocrine, circulatory, respiratory, digestive, urinary and reproductive. This course may not be used to fulfill major or minor requirements in the following programs: BA Biology, BS Biology, BS Botany, BS Environmental and Conservation Biology, BS Medical Technology, BS Biotechnology, BS Zoology, and the Biological Sciences minor.

**Prerequisite:** BSCI 21010.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 3 lecture, 3 lab

**Grade Mode:** Standard Letter

**BSCI 26002 ECOLOGICAL PRINCIPLES OF PEST MANAGEMENT 3 Credit Hours**

Basic principles of integrated pest management, pesticide application, pest identification and environmental effects. Lecture three hours weekly; offered only at the Salem Campus. This course may not be used to fulfill major or minor requirements in the following programs: BA Biology, BS Biology, BS Botany, BS Environmental and Conservation Biology, BS Medical Technology, BS Biotechnology, BS Zoology, and the Biological Sciences minor.

**Prerequisite:** BSCI 16001.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**BSCI 26003 PLANT IDENTIFICATION AND SELECTION I 3 Credit Hours**

Identification and selection of horticulturally important plant species. Emphasis on woody species, shrubs and trees. Lecture two hours weekly, lab three hours weekly. Offered only at the Salem Campus. This course may not be used to fulfill major or minor requirements in the following programs: BA Biology, BS Biology, BS Botany, BS Environmental and Conservation Biology, BS Medical Technology, BS Biotechnology, BS Zoology, and the Biological Sciences minor.

**Prerequisite:** HORT 16001 and BSCI 16001.

**Schedule Type:** Laboratory, Lecture

**Contact Hours:** 2 lecture, 3 lab

**Grade Mode:** Standard Letter

**BSCI 26004 PLANT IDENTIFICATION AND SELECTION II 3 Credit Hours**

Identification and selection of horticulturally important plant species. Emphasis on herbaceous species, ground covers and vines. Lecture two hours weekly, lab three hours weekly. Offered only at the Salem Campus. This course may not be used to fulfill major or minor requirements in the following programs: BA Biology, BS Biology, BS Botany, BS Environmental and Conservation Biology, BS Medical Technology, BS Biotechnology, BS Zoology, and the Biological Sciences minor.

**Prerequisite:** BSCI 16001 and HORT 16001.

**Schedule Type:** Laboratory, Lecture

**Contact Hours:** 2 lecture, 3 lab

**Grade Mode:** Standard Letter

**BSCI 30050 HUMAN GENETICS 3 Credit Hours**

Modern concepts of genetics applicable to the human including examination of genetically related diseases and their societal implications. This course may not be used to fulfill major or minor requirements in the following programs: BA Biology, BS Biology, BS Botany, BS Environmental and Conservation Biology, BS Medical Technology, BS Biotechnology, BS Zoology, and the Biological Sciences minor.

**Prerequisite:** 8 credit hours of Biology courses; and 3 credit hours of Chemistry courses.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**BSCI 30100 NEUROSCIENCE I 3 Credit Hours**

(Crosslisted with NEUR 30100) Neuroscience I will cover basic principles in neuroscience from the cellular to systems levels. After completion of the course, students will have a basic understanding of how the nervous system is organized, electrophysiology properties of neurons, sensory systems, and motor pathways.

**Prerequisite:** BSCI 30140.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**BSCI 30105 CAREER PATHWAYS IN BIOLOGY 1 Credit Hour**

Orients students toward various career pathways in the biological sciences.

**Prerequisite:** Minimum C- grade in the following courses BSCI 10110 and BSCI 10120.

**Schedule Type:** Lecture

**Contact Hours:** 1 lecture

**Grade Mode:** Satisfactory/Unsatisfactory

**BSCI 30130 HUMAN PHYSIOLOGY 3 Credit Hours**

Integrating mechanisms, pharmacological and pathological considerations for selected organ systems.

**Prerequisite:** Minimum C- grade in the following courses BSCI 20019; or BSCI 10110 and BSCI 10120; and 4 credit hours of Chemistry courses.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**BSCI 30140 CELL BIOLOGY 4 Credit Hours**

Investigation of the cell as the fundamental unit of life with an emphasis on the relationship between cellular structure and function. Three-hour lecture and three-hour lab weekly.

**Prerequisite:** Minimum C- grade in BSCI 10120; and CHEM 10060 and 10062.

**Schedule Type:** Laboratory, Lecture, Combined Lecture and Lab

**Contact Hours:** 3 lecture, 3 lab

**Grade Mode:** Standard Letter

**BSCI 30156 ELEMENTS OF GENETICS 3 Credit Hours**

Principles of organic mechanisms for expression and transmission of traits as studied in molecules, cells, organisms and populations.

**Prerequisite:** Minimum C- grade in the following courses BSCI 10110 and 10120; and MATH 10772 or MATH 10775 or MATH 11009 or MATH 11010 or MATH 12002 or MATH 12021.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**BSCI 30157 GENETICS LABORATORY 1 Credit Hour**

Consists of hands-on experiments with modern computational and molecular biology experimental approaches.

**Prerequisite:** Minimum C- grade in the following courses BSCI 10110 and BSCI 10120.

**Corequisite:** BSCI 30156.

**Schedule Type:** Laboratory

**Contact Hours:** 3 lab

**Grade Mode:** Standard Letter

**BSCI 30158 READINGS IN GENETICS 1 Credit Hour**

This course emphasizes principles covered in elements of genetics.

**Prerequisite:** Minimum C- grade in the following courses BSCI 10110 and BSCI 10120.

**Corequisite:** BSCI 30156.

**Schedule Type:** Lecture

**Contact Hours:** 1 lecture

**Grade Mode:** Standard Letter

**BSCI 30171 GENERAL MICROBIOLOGY 4 Credit Hours**

Fundamental principles of microbiology and of organisms including their structure, physiology, genetics, pathogenicity, classification, mechanisms of cultivation and control. Lecture three hours, lab three hours weekly.

**Prerequisite:** Minimum C- grade in BSCI 10110; and BSCI 30140; and CHEM 10060, 10061, 10062 and 10063.

**Schedule Type:** Laboratory, Lecture, Combined Lecture and Lab

**Contact Hours:** 3 lecture, 1 lab

**Grade Mode:** Standard Letter

**BSCI 30200 NEUROSCIENCE II 3 Credit Hours**

(Cross-listed with NEUR 30200) The course builds off of the principles taught in Neuroscience I by providing more depth and breadth to the functioning of the nervous system. The course provides students a more complete understanding of the neuroanatomy, neurophysiology and neural circuitry involved in sensory processing, motor control, and higher-order cognitive functioning.

**Prerequisite:** NEUR 30100 or BSCI 30100.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**BSCI 30267 PLANT PHYSIOLOGY 4 Credit Hours**

Introduction to biochemical processes in plants and plant cells. How plants grow and maintain their bodies through dynamic interactions with the environment. Lecture three hours weekly, lab two hours weekly.

**Prerequisite:** BSCI 10120, CHEM 10060 and 10062.

**Schedule Type:** Laboratory, Lecture

**Contact Hours:** 3 lecture, 3 lab

**Grade Mode:** Standard Letter

**BSCI 30270 GENERAL PLANT BIOLOGY 3 Credit Hours**

Covers all topics in modern plant biology, including molecular and cellular biology, physiology, anatomy, development, ecology, evolution and diversity.

**Prerequisite:** Minimum C- grades in BSCI 10110 and BSCI 10120.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**BSCI 30271 GENERAL PLANT BIOLOGY LABORATORY 1 Credit Hour**

Laboratory and greenhouse exercises in general plant biology.

**Prerequisite:** Minimum C- grade in the following courses BSCI 10110 and BSCI 10120.

**Corequisite:** BSCI 30270.

**Schedule Type:** Laboratory

**Contact Hours:** 1 lab

**Grade Mode:** Standard Letter

**BSCI 30274 FORESTRY 3 Credit Hours**

Management of the forest resource within appropriate environmental constraints for sustained use relative to watershed protection, lumber production, recreation and wildlife.

**Prerequisite:** Minimum C- grade in BSCI 10110.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**BSCI 30275 LOCAL FLORA (ELR) 4 Credit Hours**

Identification and field study of local plants: native, naturalized and cultivated. Two-hour lecture and six-hour lab weekly.

**Prerequisite:** Minimum C- grade in the following courses BSCI 10110 and 10120.

**Schedule Type:** Laboratory, Lecture

**Contact Hours:** 2 lecture, 6 lab

**Grade Mode:** Standard Letter

**Attributes:** Experiential Learning Requirement

**BSCI 30277 ECONOMIC BOTANY 3 Credit Hours**

Economic botany is the scientific study of plants that are important to humans. It considers how plants are used and how plants have shaped up past and modern cultural development.

**Prerequisite:** Minimum C- grades in BSCI 10110.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**BSCI 30300 EXPERIMENTAL METHODS IN NEUROSCIENCE 1 Credit Hour**

(Cross-listed with NEUR 30300) Accompanying laboratory course to NEUR 30200 or BSCI 30200. Course provides a greater depth of understanding into and hand-on experience with the principles discussed in NEUR 30200 or BSCI 30200. Course provides students a full understanding in the major research techniques used in neuroscience. The major topics covered include: electrophysiology, neuroanatomy, learning and memory, the neuromuscular junction and sensory perception.

**Prerequisite:** Minimum C grade in NEUR 30100 or BSCI 30100.

**Pre/corequisite:** NEUR 30200 or BSCI 30200.

**Schedule Type:** Laboratory

**Contact Hours:** 3 lab

**Grade Mode:** Standard Letter

**BSCI 30360 GENERAL ECOLOGY 4 Credit Hours**

Principles of ecology based on field studies of local plant and animal communities. Lecture three hours, lab three hours weekly.

**Prerequisite:** Minimum C- grade in BSCI 10110.

**Schedule Type:** Laboratory, Lecture

**Contact Hours:** 3 lecture, 1 lab

**Grade Mode:** Standard Letter

**BSCI 30361 BIOGEOGRAPHY 3 Credit Hours**

Geographical distribution of biotic communities with special reference to North America and to their environmental control.

**Prerequisite:** Minimum C- grade in the following courses BSCI 10110 and 10120.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**BSCI 30362 INTRODUCTION TO BIOLOGY OF THE TROPICS 3 Credit Hours**

Biology and conservation of tropical ecosystems and organisms.

**Prerequisite:** Minimum C- grade in BSCI 10110; and junior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**BSCI 30370 CLIMATE CHANGE BIOLOGY 3 Credit Hours**

This course focuses on the biological impacts of climate change. It includes background on the issue of the biological consequences of climate change, as well as the history of research, current impacts and projected changes discussed in the Inter-Governmental Panel on Climate Change report, and the controversies of climate-change skeptics. It also includes the biogeochemistry of climate change effects on biology, climate change, and biological interactions, vector-borne infectious diseases, rates of evolution, and Great Lakes biology.

**Prerequisite:** Minimum C- grade in BSCI 10110; or ENVS 22070.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**BSCI 30517 HUMAN ANATOMY 4 Credit Hours**

An intensive investigation of the anatomy and development of the human body.

**Prerequisite:** Senior standing; and special approval.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 3 lecture, 3 lab

**Grade Mode:** Standard Letter

**BSCI 30518 VERTEBRATE ANATOMY 4 Credit Hours**

Concepts and methods of functional morphology. Comparative study of vertebrate organs and systems: skeletal, muscular, digestive, respiratory, circulatory, urogenital, nervous and endocrine. Lecture three hours, lab three hours weekly.

**Prerequisite:** Minimum C- grade in BSCI 10110 or 10120.

**Schedule Type:** Laboratory, Lecture

**Contact Hours:** 3 lecture, 1 lab

**Grade Mode:** Standard Letter

**BSCI 30519 VERTEBRATE EMBRYOLOGY AND DEVELOPMENTAL ANATOMY 4 Credit Hours**

Gametogenesis, fertilization, embryogenesis, organogenesis, normal/ abnormal embryological development; emphasizing mammal; amphibian, bird illustrating general principles and concepts. Laboratory studies of frog, chick, pig developmental anatomy. Three one hour lectures and one three hour lab.

**Prerequisite:** BSCI 30518 and 30140.

**Schedule Type:** Laboratory, Lecture

**Contact Hours:** 3 lecture, 1 lab

**Grade Mode:** Standard Letter

**BSCI 30520 INTRODUCTION TO NEUROSCIENCE 3 Credit Hours**

Basic principles in neuroscience from the cellular to systems level. Covers how the nervous system is organized, how it detects sensory stimuli to create a mental representation of their environment and output pathways by which the nervous system can control movement, hormone levels and physiological processes.

**Prerequisite:** BSCI 30140.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**BSCI 30560 INVERTEBRATE ZOOLOGY 4 Credit Hours**

Survey of the animal kingdom emphasizing evolutionary developments. Three-hour lecture and three-hour lab weekly.

**Prerequisite:** Minimum C- grade in the following courses BSCI 10110 and 10120.

**Schedule Type:** Laboratory, Lecture

**Contact Hours:** 3 lecture, 3 lab

**Grade Mode:** Standard Letter

**BSCI 30580 ENTOMOLOGY 4 Credit Hours**

Classification, biology and ecology of the principal groups of insects. Lecture three hours, lab three hours weekly.

**Prerequisite:** Minimum C- grade in the following courses BSCI 10110 and 10120; and 10 hours of Biology courses.

**Schedule Type:** Laboratory, Lecture

**Contact Hours:** 3 lecture, 1 lab

**Grade Mode:** Standard Letter

**BSCI 30582 ORNITHOLOGY 4 Credit Hours**

Field study of natural history of local birds. Lecture three hours, lab three hours weekly.

**Prerequisite:** Minimum C- grade in the following courses BSCI 10110 and 10120.

**Schedule Type:** Laboratory, Lecture

**Contact Hours:** 3 lecture, 1 lab

**Grade Mode:** Standard Letter

**BSCI 30789 FEASTS AND PLAGUES: THE SCIENCE OF ITALIAN FOOD, WINE, AND DISEASE 3 Credit Hours**

This course explores the microbial mechanisms responsible for plagues such as the Black Death as well as for their positive roles in food and wine production. These costs and benefits are explored in Florence, Italy since each is ingrained in the city's history, culture, art, and biology. Course activities include food and wine tastings and field trips to historical sites and museums in Florence and Siena. This course is designed to appeal to students with a wide array of interests in human health and society. Students will analyze genomes of microbes responsible for human disease, discuss ecological and biological factors associated with disease transmission, construct cemetery life tables, discuss the impacts of disease on Italian art, architecture, and culture, master knowledge of the fermentation process, and compare and contrast the microbiomes and environments of vineyards in Tuscany vs. California.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**BSCI 40020 BIOLOGY OF AGING 3 Credit Hours**

(Slashed with BSCI 50020) Current theories of aging; changes at the cellular level associated with aging in humans; course covers the normal aging process, dysfunction, and diseases of the elderly categorized by body systems. This course may not be used to fulfill major or minor requirements in the following programs: BA Biology, BS Biology, BS Botany, BS Environmental and Conservation Biology, BS Medical Technology, BS Biotechnology, BS Zoology, and the Biological Sciences minor.

**Prerequisite:** BSCI 20019; or BSCI 21010 and BSCI 21020; or BSCI 11010 and BSCI 11020; or ATTR 25057 and ATTR 25058; or EXSC 25057 and EXSC 25058.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**BSCI 40104 INTRODUCTION TO BEEKEEPING 2 Credit Hours**

(Cross-listed with BSCI 50104) Covers basic beekeeping practices and provides students with an in-depth understanding of the honey bee colony through participation in hands-on activities, observation and experimentation.

**Prerequisite:** BSCI 10110 and 10120 with minimum C- grades; and junior or senior standing.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 1 lecture, 2 lab

**Grade Mode:** Standard Letter



**BSCI 40141 EXPERIMENTAL DESIGN AND ANALYSIS IN MOLECULAR BIOLOGY 3 Credit Hours**

(Slashed with BSCI 50141 and BSCI 70141) This course explores experimental design and analysis of biological data using tools of molecular biology. Students will study modern and classic techniques and learn the pros and cons of each technique as well as alternative approaches in the context of experiments. The course will consist of a combination of lectures, student presentations and class discussions based on recent primary literature, with particular focus on cell death and disease, including cancer.

**Prerequisite:** BSCI 30156 and BSCI 30140.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**BSCI 40142 BIOENERGETICS 3 Credit Hours**

(Cross-listed with BSCI 50142 and BSCI 70142) Lecture and discussion of respiration and photosynthesis, their origin, development and control in living systems. Concepts are introduced from fundamental principles. Lecture three hours weekly.

**Prerequisite:** BSCI 30140 and CHEM 20481 or 30481.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**BSCI 40143 EUKARYOTIC CELL BIOLOGY 3 Credit Hours**

Current survey of the structure and function of eukaryotic cells, including recent advances in research technology. Lecture three hours weekly.

**Prerequisite:** BSCI 30140 and CHEM 20481 or 30481.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**BSCI 40146 DEVELOPMENTAL BIOLOGY 3 Credit Hours**

(Cross-listed with BSCI 50146 and BSCI 70146) Fundamental concepts and paradigms of development as exemplified by major model organisms. Examines our modern understanding of the molecular, cellular and genetic basis of developmental biology.

**Prerequisite:** Minimum B grades in the following courses BSCI 30156 and BSCI 30140; and senior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**BSCI 40147 DEVELOPMENTAL NEUROBIOLOGY 3 Credit Hours**

(Slashed with BSCI 50147 and BSCI 70147) Covers fundamental principles in developmental neurobiology, including molecular and cellular processes involved in the formation of the vertebrate central nervous system.

**Prerequisite:** BSCI 30140; and junior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**BSCI 40148 PRINCIPLES OF INFECTIOUS DISEASE 3 Credit Hours**

(Slashed with BSCI 50148 and BSCI 70148) Basic principles of infectious disease, with emphasis on major human pathogens including protozoa, bacteria, and viruses. Topics include infection establishment, spread within the host, pathology, immunity, and host behavior.

**Prerequisite:** BSCI 30171; and CHEM 10060; and CHEM 10061; and CHEM 10062; and CHEM 10063.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**BSCI 40150 MOLECULAR MECHANISMS OF DISEASE: CANCER 3 Credit Hours**

(Cross-listed with BSCI 50150 and BSCI 70150) Explores the current understanding of molecular and cellular mechanisms of disease processes, including new technologies and modern strategies in the forefront of future biomedical research. Emphasis on a review of primary literature.

**Prerequisite:** BSCI 30156 and BSCI 30140; and junior or senior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**BSCI 40151 MECHANISMS OF DISEASE: OBESITY AND RELATED METABOLIC DISEASES 3 Credit Hours**

(Slashed with BSCI 50151 and BSCI 70151) Addresses obesity from multiple angles, including health and disease process, underlying physiology and cell and molecular biology, and the role of behavior. Emphasis on a review of primary literature to discuss obesity causes, consequences, and treatments.

**Prerequisite:** Minimum C- grade in BSCI 10120; and BSCI 30130 or BSCI 40430.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**BSCI 40152 MOLECULAR MECHANISMS OF DISEASE: NEUROLOGICAL DISORDERS 3 Credit Hours**

(Slashed with BSCI 50152 and BSCI 70152) Major concepts and theoretical principles underlying neurological disorders.

**Prerequisite:** Minimum C- grade in the following courses BSCI 10110 and BSCI 10120; and junior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**BSCI 40154 DIABETES AND CARDIOVASCULAR DISEASE 3 Credit Hours**

(Slashed with BSCI 50154 and BSCI 70154) Physiological aspects of diabetes and cardiovascular disease, including associated pathologies and therapies.

**Prerequisite:** BSCI 40430; or BSCI 30140 and BSCI 30130.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**BSCI 40157 NEUROBIOLOGY OF DRUG ADDICTION 3 Credit Hours**

(Slashed with BSCI 50157 and BSCI 70157) Introduction to neural structures, circuitry, and chemistry underlying drug addiction, main categories of drugs of abuse, and how brain cells and circuits are modified in response to addictive drugs.

**Prerequisite:** Minimum C- grades in BSCI 10110 and BSCI 10120; and junior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**BSCI 40158 MOLECULAR BIOLOGY 3 Credit Hours**

Molecular genetics, DNA and RNA structure, chromosomes, DNA replication, recombination, genetic transcription and translation, gene expression, current concepts and technologies.

**Prerequisite:** BSCI 30140 and 30156.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter



**BSCI 40159 MOLECULAR BIOLOGY LABORATORY (ELR) (WIC) 3 Credit Hours**

Experience in research methods for studying cellular and molecular processes in plant and animal systems.

**Prerequisite:** BSCI 30140 and 30156.

**Schedule Type:** Laboratory

**Contact Hours:** 6 lab

**Grade Mode:** Standard Letter

**Attributes:** Experiential Learning Requirement, Writing Intensive Course

**BSCI 40160 MARINE BIOLOGY 3 Credit Hours**

(Slashed with BSCI 50160 and BSCI 70160) Natural history and ecology of marine organisms, with emphasis on life in coastal habitats.

**Prerequisite:** Minimum C- grade in the following courses BSCI 10110 and BSCI 10120.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**BSCI 40162 SOIL BIOLOGY 3 Credit Hours**

(Slashed with BSCI 50162 and BSCI 70162) The ecology and physiology of organisms that live in soil, including microbes, plants and animals. The physical and chemical aspects of soil are introduced to understand how organisms in soils impact nutrient cycles and ecosystem development.

**Prerequisite:** Minimum C- grade in the following courses BSCI 10110 and BSCI 10120; and junior or senior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**BSCI 40163 EVOLUTION 3 Credit Hours**

(Cross-listed with BSCI 50163 and BSCI 70163) History of evolutionary theory, the evidences of evolution, the evolutionary forces and the products of these forces. Lecture three hours weekly.

**Prerequisite:** BSCI 30156; and 4 hours of Biology courses.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**BSCI 40166 ENVIRONMENTAL SENSOR TECHNOLOGY 2 Credit Hours**

(Slashed with BSCI 50166 and BSCI 70166) Provides learning experiences in the field of environmental wireless sensor technology for performing both isolated and collaborative tasks. Students will use practical tools for WST design.

**Prerequisite:** Special approval.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**BSCI 40170 STREAM BIOLOGY 3 Credit Hours**

(Slashed with BSCI 50170 and BSCI 70170) Identification, biology and ecology of stream-inhabiting organisms. Lecture two hours, lab three hours weekly.

**Prerequisite:** Minimum C- grade in the following courses BSCI 10110 and BSCI 10120.

**Schedule Type:** Laboratory, Lecture

**Contact Hours:** 2 lecture, 1 lab

**Grade Mode:** Standard Letter

**BSCI 40174 IMMUNOLOGY 3 Credit Hours**

(Cross-listed with BSCI 50174 and BSCI 70174) Survey of the mammalian host responses to self and non-self with emphasis on the cellular and molecular mechanisms by which innate and acquired immunity result. Experimental design and data analyses are related to current methodologies used to study immunology. Lectures 3 hours weekly.

**Prerequisite:** BSCI 30171 and CHEM 10060, 10061, 10062 and 10063.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**BSCI 40191 SENIOR SEMINAR 1 Credit Hour**

(Repeatable for credit) A capstone seminar course to examine biological topics and scientific contributions across subdisciplines. Discussion of current problems in the biological sciences related to societal needs and concerns.

**Prerequisite:** Biology major; and senior standing.

**Schedule Type:** Seminar

**Contact Hours:** 1 other

**Grade Mode:** Satisfactory/Unsatisfactory

**BSCI 40192 INTERNSHIP IN BIOLOGICAL SCIENCES (ELR) 3-12 Credit Hours**

(Repeatable for credit) Work experience and training in the biological sciences under the supervision of appropriate personnel in a government agency, nonprofit organization or business. Maximum of 4 credit hours to count toward BSCI degrees as upper division elective hours.

**Prerequisite:** 18 hours of Biology; and 2.750 minimum overall GPA in Biology coursework; and special approval.

**Schedule Type:** Practical Experience

**Contact Hours:** 3-12 other

**Grade Mode:** Standard Letter

**Attributes:** Experiential Learning Requirement

**BSCI 40193 VARIABLE TITLE WORKSHOP IN BIOLOGICAL SCIENCES 1-6 Credit Hours**

(Repeatable for credit) Topics to be offered will meet specific needs in the biological sciences.

**Prerequisite:** Permission.

**Schedule Type:** Workshop

**Contact Hours:** 1-6 other

**Grade Mode:** Satisfactory/Unsatisfactory

**BSCI 40195 SPECIAL TOPICS IN BIOLOGY 1-3 Credit Hours**

(Repeatable for credit) (Cross-listed with BSCI 50195 and BSCI 70195) Special topics in biology.

**Prerequisite:** 18 hours of Biology coursework; and special approval of instructor.

**Schedule Type:** Laboratory, Lecture

**Contact Hours:** 1-3 lecture, 2-6 lab

**Grade Mode:** Standard Letter-IP

**BSCI 40196 INDIVIDUAL INVESTIGATION (ELR) 1-3 Credit Hours**

(Repeatable for credit) Research study under the direction of a BSCI faculty mentor. May be repeated; however, a maximum of 6 credit hours count toward BSCI degrees as upper-division elective hours.

**Prerequisite:** A minimum BSCI grade average of 2.750; and at least 18 credit hours of BSCI coursework; and departmental and faculty mentor approvals required.

**Schedule Type:** Individual Investigation

**Contact Hours:** 1-3 other

**Grade Mode:** Standard Letter-IP

**Attributes:** Experiential Learning Requirement

**BSCI 40199 SENIOR HONORS THESIS (ELR) 1-10 Credit Hours**  
(Repeatable for credit) Honors thesis research project completed during the senior year with BSCI faculty mentor and research committee. Maximum of 4 credit hours to count toward BSCI degrees as upper division elective hours.

**Prerequisite:** Departmental faculty mentor; and honors college approval.

**Schedule Type:** Senior Project/Honors Thesis

**Contact Hours:** 1-10 other

**Grade Mode:** Standard Letter-IP

**Attributes:** Experiential Learning Requirement

**BSCI 40220 BIOINFORMATICS 3 Credit Hours**  
(Cross-listed with BTEC 40220) (Slashed with BSCI 50220 and BSCI 70220) Analysis of biological databases, including nucleic acid and protein sequence searching, multiple sequence alignment, protein classification, phylogenetic analysis, comparative genomics, proteomics and protein structure analysis.

**Prerequisite:** BSCI 30140 and BSCI 30156 and BSCI 40158.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**BSCI 40221 ECOLOGICAL GENOMICS 3 Credit Hours**  
(Slashed with BSCI 50221 and BSCI 70221) Covers principles, concepts and techniques of ecological genomics, emphasizing the application of genomics to ecology and biogeochemistry and using genomic, metagenomic and metatranscriptomic data.

**Prerequisite:** BSCI 30140; and BSCI 30156; and BSCI 30360.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**BSCI 40222 INVASION BIOLOGY 3 Credit Hours**  
(Slashed with BSCI 50222 and BSCI 70222) This course will provide an overview of the science of biological invasions, focusing on the processes of introduction, establishment, and spread. It will discuss both invasions of species from other countries as well as encroachment of native species. The economic and ecological impacts of both plant and animal invasive species, as well as ways of combating the harmful effects of invasions will be discussed. Prerequisite: BSCI 10110

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**BSCI 40224 QUANTITATIVE METHODS IN BIOLOGY 4 Credit Hours**  
Introduction to the quantitative skills required of practicing biologists (experimental design, graphing, inference, and management of biological data). Real data from biological studies will be used to address fundamental questions in the biological sciences. Laboratory exercises will give experience with spreadsheet and statistical software used by practicing biologists.

**Prerequisite:** Minimum C- grade in BSCI 10110 or BSCI 10120; and minimum 55 ALEKS math score, or MATH 10675 or MATH 10775 or MATH 11010 with minimum C- grade.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 3 lecture, 2 lab

**Grade Mode:** Standard Letter

**BSCI 40242 SEMINAR ON MEDICAL PRACTICE FOR UNDERSERVED POPULATIONS 2 Credit Hours**  
(Slashed with BSCI 50242). Course will introduce students to primary care and medical practice in rural and urban settings. Physicians and other healthcare practitioners from rural and urban settings will serve as invited speakers in this seminar. Preference for registration will be given to students following the Baccalaureate-MD program with junior standing and minimum 3.500 overall GPA.

**Prerequisite:** Special approval.

**Schedule Type:** Seminar

**Contact Hours:** 2 other

**Grade Mode:** Satisfactory/Unsatisfactory

**BSCI 40272 PLANT ANATOMY 4 Credit Hours**  
(Slashed with BSCI 50272 and BSCI 70272) Development and structure of cells, tissues and tissue systems of seed plants. Both vegetative and reproductive structures of angiosperms will be emphasized. Lecture two hours, lab six hours weekly.

**Prerequisite:** Minimum C- grade in the following courses BSCI 10110 and BSCI 10120.

**Schedule Type:** Laboratory, Lecture

**Contact Hours:** 2 lecture, 6 lab

**Grade Mode:** Standard Letter

**BSCI 40273 INTRODUCTION TO MYCOLOGY 3 Credit Hours**  
(Slashed with BSCI 50273 and BSCI 70273) Introduces key features defining the fungi. Topics include anatomical and morphological features, reproductive strategies, identification, and community interactions.

**Prerequisite:** Minimum C- grade in the following courses BSCI 10110 and BSCI 10120.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**BSCI 40274 PLANT COMMUNITIES OF OHIO 3 Credit Hours**  
(Slashed with BSCI 50274 and BSCI 70274) Designed to familiarize students with the range of plant communities within Ohio by relating plant identification to biological, hydrological, geological, and climatic forces.

**Prerequisite:** Minimum C- grade in the following courses BSCI 10110 and BSCI 10120.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**BSCI 40275 PLANT SYSTEMATICS AND EVOLUTION 4 Credit Hours**  
(Slashed with BSCI 50275 and BSCI 70275) Introduction to vascular plant diversity, with a focus on flowering plants. Students will learn characteristics of vascular plants and how to identify major plant groups. Lecture three hours weekly, lab two hours weekly.

**Prerequisite:** Minimum C- grade in the following courses BSCI 10110 and BSCI 10120.

**Schedule Type:** Laboratory, Lecture

**Contact Hours:** 3 lecture, 1 lab

**Grade Mode:** Standard Letter

**BSCI 40292 INTERNSHIP IN PRIMARY CARE FOR THE UNDERSERVED (ELR) 2 Credit Hours**

(Slashed with BSCI 50292) Students will be placed in internships in urban or rural healthcare settings. Registration preference will be given to students following the Baccalaureate/M.D. pathway and who have junior standing and a minimum 3.500 overall GPA.

**Prerequisite:** Special approval.

**Schedule Type:** Practical Experience

**Contact Hours:** 6 other

**Grade Mode:** Standard Letter

**Attributes:** Experiential Learning Requirement

**BSCI 40341 STEM CELL BIOLOGY: PRINCIPLES AND APPLICATIONS 3 Credit Hours**

(Slashed with BSCI 50341 and BSCI 70341) Examination of stem cells from various tissues, molecular mechanism of stem cell differentiation, and use of stem cells in clinical applications.

**Prerequisite:** BSCI 30140.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**BSCI 40360 ICHTHYOLOGY 4 Credit Hours**

Basic biology, natural history, behavior and ecology of the fishes. Three hour lecture and three hour lab weekly.

**Prerequisite:** Minimum C- grade in the following courses BSCI 10110 and BSCI 10120; and junior standing.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 3 lecture, 3 lab

**Grade Mode:** Standard Letter

**BSCI 40363 MICROBIAL ECOLOGY 3 Credit Hours**

(Slashed with BSCI 50363 and BSCI 70363) Microbial interactions with their biotic and abiotic environment; control of distribution and physiological activities; biochemical cycles; current techniques; emphasis on bacteria in aquatic systems.

**Prerequisite:** BSCI 30171 and BSCI 30360.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**BSCI 40364 LIMNOLOGY 3 Credit Hours**

(Cross-listed with BSCI 50364 and BSCI 70364) The study of the principles of aquatic ecology with emphasis on lakes and reservoirs.

**Prerequisite:** BSCI 30360.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**BSCI 40365 FIELD METHODS IN ORNITHOLOGY (ELR) 3 Credit Hours**

(Slashed with BSCI 50365 and BSCI 70365) Habitat-based survey of Ohio birds. Field-based lectures and activities cover location, observation and identification of birds and their songs, as well as bird ecology and behavior.

**Prerequisite:** Minimum C- grade in the following courses BSCI 10110 and 10120.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Experiential Learning Requirement

**BSCI 40368 WETLAND ECOLOGY AND MANAGEMENT (ELR) 4 Credit Hours**

(Slashed with BSCI 50368 and BSCI 70368) Lecture, laboratory and field study of the principles of wetland ecology including adaptations of the biota to environmental conditions, comparison among different wetland habitat types and habitat management. Lecture 3 hours, lab 3 hours weekly.

**Prerequisite:** Minimum C- grade in the following courses BSCI 10110 and 10120; and 10 hours of Biology coursework.

**Schedule Type:** Laboratory, Lecture

**Contact Hours:** 3 lecture, 1 lab

**Grade Mode:** Standard Letter

**Attributes:** Experiential Learning Requirement

**BSCI 40374 CONSERVATION BIOLOGY (ELR) 4 Credit Hours**

(Cross-listed with BSCI 50374 and BSCI 70374) Provides a critical analysis of the factors that threaten biological diversity in the biosphere and the consequences on biological processes and quality of life.

**Prerequisite:** BSCI 30360.

**Schedule Type:** Lecture

**Contact Hours:** 4 lecture

**Grade Mode:** Standard Letter

**Attributes:** Experiential Learning Requirement

**BSCI 40375 ENVIRONMENTAL BIOLOGY AND MANAGEMENT 4 Credit Hours**

(Slashed with BSCI 50375 and BSCI 70375) Introduction to current concepts in applied ecology and ecosystem management. Students will learn aspects of ecosystem management and restoration including: 1) how environmental factors affect organism survival and ecosystem structure, 2) how human impacts such as pollution, habitat fragmentation, introduction of invasive species affect ecosystems, and 3) the use of ecological principles and methods to restore and manage ecosystems.

**Prerequisite:** Minimum C- grade in the following courses BSCI 10110 and BSCI 10120; and BSCI 30360.

**Schedule Type:** Lecture

**Contact Hours:** 4 lecture

**Grade Mode:** Standard Letter

**BSCI 40376 TROPICAL FIELD BIOLOGY AND CONSERVATION (ELR) 5 Credit Hours**

(Slashed with BSCI 50376 and BSCI 70376) Introduction to major issues in tropical ecology and conservation including the threats to the biological diversity of tropical ecosystems resulting from human activities. Students learn how to apply modern field-observation techniques to generate and test problem-solving hypotheses.

**Prerequisite:** Minimum C- grade in the following courses BSCI 10110 and BSCI 10120; junior or senior standing.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 3 lecture, 6 lab

**Grade Mode:** Standard Letter

**Attributes:** Experiential Learning Requirement

**BSCI 40380 BIOGEOCHEMISTRY 3 Credit Hours**

(Cross-listed with GEOL 40380 and GEOL 50380) (Slashed with BSCI 50380 and BSCI 70380) Biogeochemistry explores the chemical, physical, geological, and biological processes and reactions that shape the world around us, and provides tools for understanding human alterations to global systems. In this course, we will explore elemental cycles in diverse terrestrial and aquatic ecosystems, as well as assess how humans have drastically altered these elemental cycles on a global scale, and the implications of these changes for biological systems.

**Prerequisite:** Minimum C- grade in the following courses BSCI 10110 and BSCI 10120 or GEOL 11040 and (GEOL 11042 or GEOL 21062 or GEOL 21080); and CHEM 10060 and CHEM 10062.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**BSCI 40430 ANIMAL PHYSIOLOGY 3 Credit Hours**

Physiologic principles and concepts.

**Prerequisite:** BSCI 30140; CHEM 10060, 10061, 10062 and 10063.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**BSCI 40431 NEUROENDOCRINOLOGY 3 Credit Hours**

(Slashed with BSCI 50431 and BSCI 70431) This course is an introduction to neuroendocrinology. There will be a focus on the major sources of neurohormones, the different classes of neurohormones, as well as how neurohormones are regulated, how they signal, and how they function. This course will integrate aspects of endocrinology, neuroscience, and physiology. After completion of this course students should have a basic understanding of the various neuroendocrine messengers and how they function.

**Prerequisite:** BSCI 30130 or BSCI 40430 or BSCI 40460 or NEUR 30100.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**BSCI 40432 ENDOCRINOLOGY 3 Credit Hours**

(Cross-listed with BSCI 50432 and BSCI 70432) Principles of endocrine regulation of physiological and metabolic processes. Morphological and functional interrelationships between systems. Lecture three hours.

**Prerequisite:** BSCI 30130 or BSCI 40430.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**BSCI 40433 MAMMALIAN PHYSIOLOGY I 3 Credit Hours**

Physiology of the endocrine, nervous, and reproductive systems.

**Prerequisite:** BSCI 30140 and CHEM 10060 and CHEM 10061 and CHEM 10062 and CHEM 10063; and CHEM 20481 or 30481.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**BSCI 40434 MAMMALIAN PHYSIOLOGY II 3 Credit Hours**

Physiology of cardiovascular, renal, respiratory and digestive systems. Lecture three hours.

**Prerequisite:** BSCI 30140 and CHEM 10060 and CHEM 10061 and CHEM 10062 and CHEM 10063; and CHEM 20481 or 30481.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**BSCI 40450 BIOLOGICAL CLOCKS 2 Credit Hours**

(Cross-listed with BSCI 50450 and BSCI 70450) Topics covered include the characteristics of biological clocks, their ecology, molecular biology, and neurobiology, the function and organization of sleep, and the medical implications of biological rhythmicity.

**Prerequisite:** BSCI 30156; and BSCI 30520 or 40430 or 40433 or PSYC 41363.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**BSCI 40460 ADVANCED HUMAN PHYSIOLOGY 3 Credit Hours**

(Slashed with BSCI 50460 and BSCI 70460) Major concepts and theoretical principles of human physiology, including nervous, endocrine, cardiovascular, respiratory, renal, gastrointestinal and reproductive systems.

**Prerequisite:** BSCI 30140; and junior standing.

**Corequisite:** BSCI 40462.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**BSCI 40462 ADVANCED HUMAN PHYSIOLOGY: READINGS AND CASE STUDIES 1 Credit Hour**

(Slashed with BSCI 50462 and BSCI 70462) Designed to complement the lecture course in Advanced Human Physiology. Students will read primary literature in physiology and work independently and in groups to apply their knowledge to solving case studies.

**Prerequisite:** BSCI 30140; and junior standing.

**Corequisite:** BSCI 40460.

**Schedule Type:** Lecture

**Contact Hours:** 1 lecture

**Grade Mode:** Standard Letter

**BSCI 40463 MEDICAL BIOTECHNOLOGY 3 Credit Hours**

(Slashed with BSCI 50463 and BSCI 70463) (Cross-listed BTEC 40463) Medical Biotechnology provides a basic understanding of how living cells and cellular materials can be used for medical applications, particularly in the diagnosis and therapy of human diseases.

**Prerequisite:** BSCI 30140.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**BSCI 40466 MEDICAL AND VETERINARY ENTOMOLOGY 3 Credit Hours**

(Slashed with BSCI 50466 and BSCI 70466) This course covers the ecology of flies, lice, ticks, spiders, and other arthropods with a medical or veterinary importance. The course will consist of lectures and discussions on topics including evolutionary adaptations and lifecycles, allergic responses, disease transmission, forensic entomology, entomophobia, veterinary pests, and pest control techniques.

**Prerequisite:** Minimum C- grade in the following courses BSCI 10110 and BSCI 10120.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter



**BSCI 40515 ANIMAL BEHAVIOR 3 Credit Hours**

Explores the evolution of various animal behaviors, the functions they might serve, and the interplay among the social, ecological and physiological mechanisms that regulate their occurrence.

**Prerequisite:** Minimum C- grade in the following courses BSCI 10110 and BSCI 10120; and 6 additional hours of Biology courses.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**BSCI 40517 MEDICAL HISTOLOGY 3 Credit Hours**

(Slashed with BSCI 50517 and BSCI 70517) Study of the microscopic and submicroscopic structure of the human body in relation to function. Lecture two hours, lab three hours weekly.

**Prerequisite:** Minimum C- grade in the following courses BSCI 10110 and BSCI 10120; and BSCI 30140.

**Schedule Type:** Laboratory, Lecture

**Contact Hours:** 2 lecture, 3 lab

**Grade Mode:** Standard Letter

**BSCI 40519 HORMONES AND BEHAVIOR 3 Credit Hours**

(Slashed with BSCI 50519 and BSCI 70519) Current concepts of hormone and behavior interactions across species.

**Prerequisite:** Minimum C- grade in the following courses BSCI 10110 and BSCI 10120; and junior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**BSCI 40520 BEHAVIORAL EVOLUTION (WIC) 3 Credit Hours**

(Cross-listed with BSCI 50520 and BSCI 70520) Examination of how behavior contributes to survival and reproduction in an ecological context. We consider how behavior may have evolved in a wide range of animals.

**Prerequisite:** BSCI 40163.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Writing Intensive Course

**BSCI 40525 WILDLIFE RESOURCES (ELR) 3 Credit Hours**

(Slashed with BSCI 50525 and BSCI 70525) Ecological parameters are discussed relative to the preservation and management of wild animal populations. Aesthetic, economic and environmental values are discussed. Lecture three hours weekly.

**Prerequisite:** Minimum C- grade in BSCI 10110; plus 4 hours of Biology coursework.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Experiential Learning Requirement

**BSCI 40556 VERTEBRATE ZOOLOGY 4 Credit Hours**

(Slashed with BSCI 50556 and BSCI 70556) Field approach to identification and natural history of all Ohio vertebrates except birds. Lecture three hours, lab and field three hours weekly.

**Prerequisite:** Minimum C- grade in the following courses BSCI 10110 and BSCI 10120; and 4 hours of Biology coursework.

**Schedule Type:** Laboratory, Lecture

**Contact Hours:** 3 lecture, 3 lab

**Grade Mode:** Standard Letter

**BSCI 40558 MAMMALOLOGY 3 Credit Hours**

(Slashed with BSCI 50558 and BSCI 70558) This course will explore the biology of mammals. The course is organized into three sections. Section 1 will define what a mammal is and explore their origin, evolution, and modern distribution. Section 2 will survey modern mammal taxonomic diversity. Section 3 will explore the environmental physiology and various ecological roles that mammals play using specific case studies of mammalian ecological interactions in the world's major biomes.

**Prerequisite:** Minimum C- grade in BSCI 10110.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**BSCI 40560 HERPETOLOGY 3 Credit Hours**

(Slashed with BSCI 50560 and BSCI 70560) This course will explore the biology of amphibians and reptiles. The course is organized into three sections. Section 1 we will explore their origin, evolution, and modern diversity of amphibians and reptiles (Yes, you will be required to memorize a whole mess of taxonomic names!). Section 2 will survey various aspects of the biology of amphibians and reptiles. Section 3 will explore the various aspects of the ecology of amphibians and reptiles, and examine a few critical topics in amphibian and reptile conservation.

**Prerequisite:** Minimum C- grade in BSCI 10110.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**BSCI 40581 ANIMAL PARASITOLOGY 4 Credit Hours**

(Slashed with BSCI 50581) Morphology, physiology, life-histories, systematics and economic importance of parasites. Lecture two hours lab, six hours weekly.

**Prerequisite:** Minimum C- grade in the following courses BSCI 10110 and BSCI 10120; and 4 hours of Biology coursework.

**Schedule Type:** Laboratory, Lecture

**Contact Hours:** 2 lecture, 6 lab

**Grade Mode:** Standard Letter

**BSCI 40600 WRITING IN THE BIOLOGICAL SCIENCES (WIC) 1 Credit Hour**

Writing-intensive course taken with a 3- or 4-credit-hour upper-division biology course. This course may be used to satisfy the writing-intensive course requirement with approval of major department.

**Prerequisite:** Biology major; and junior standing.

**Schedule Type:** Lecture

**Contact Hours:** 1 lecture

**Grade Mode:** Standard Letter

**Attributes:** Writing Intensive Course

**BSCI 41110 BIOPHOTONICS 3 Credit Hours**

(Slashed with BSCI 51110; Cross-listed with CHEM 41010 and CHEM 41010 and PHY 41010 and PHY 51010). Interdisciplinary overview of the basics of biophotonics; application of biophotonic techniques to probe biological samples. Introduction to the foundations of optics and photonics and how the molecular structure of organic molecules translates into unique photonic properties and targeting in biological cells or tissue. Preparation of fluorescent materials, advanced spectroscopy and cell visualization using regular and confocal fluorescence microscopy.

**Prerequisite:** Special approval.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 1 lecture, 6 lab

**Grade Mode:** Standard Letter



**BSCI 41120 BIOLOGICAL LIGHT MICROSCOPY 3 Credit Hours**  
(Slashed with BSCI 51120 and BSCI 71120) Theoretical and practical information on the operation of optical microscopes, the application of transmission and fluorescence microscopy to biological specimens, and analysis of microscopic images.

**Prerequisite:** BSCI 30140.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**BSCI 50020 BIOLOGY OF AGING 3 Credit Hours**  
(Cross-listed with BSCI 40020) Current theories of aging; changes at the cellular level associated with aging in humans; course covers the normal aging process, dysfunction, and diseases of the elderly by body systems.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**BSCI 50104 INTRODUCTION TO BEEKEEPING 2 Credit Hours**  
Covers basic beekeeping practices and provides students with an in-depth understanding of the honey bee colony through participation in hands-on activities, observation and experimentation. This course may not be used to fulfill degree requirements in the MS or MA Biology programs.

**Prerequisite:** Graduate standing.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 1 lecture, 2 lab

**Grade Mode:** Standard Letter

**BSCI 50105 CAREER PATHWAYS IN BIOLOGY 1 Credit Hour**  
This course orients students to graduate studies and to various career pathways in the biological sciences. Students will learn about a variety of possible careers, and prepare application materials needed to enter the workforce or apply to additional graduate programs.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 1 lecture

**Grade Mode:** Satisfactory/Unsatisfactory

**BSCI 50141 EXPERIMENTAL DESIGN AND ANALYSIS IN MOLECULAR BIOLOGY 3 Credit Hours**  
(Slashed with BSCI 40141 and BSCI 70141) This course explores experimental design and analysis of biological data using tools of molecular biology. Students will study modern and classic techniques and learn the pros and cons of each technique as well as alternative approaches in the context of experiments. The course will consist of a combination of lectures, student presentations and class discussions based on recent primary literature, with particular focus on cell death and disease, including cancer.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**BSCI 50142 BIOENERGETICS 3 Credit Hours**  
(Cross-listed with BSCI 40142 and BSCI 70142) Lecture and discussion of respiration and photosynthesis, their origin development and control in living systems. Concepts are introduced from fundamental principles. Lecture three hours weekly.

**Prerequisite:** BSCI 40430; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**BSCI 50143 EUKARYOTIC CELL BIOLOGY 3 Credit Hours**  
(Cross-listed with BSCI 40143 and BSCI 70143) Current survey of the structure and function of eukaryotic cells, including recent advances in research technology. Lecture three hours weekly.

**Prerequisite:** BSCI 40430; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**BSCI 50146 DEVELOPMENTAL BIOLOGY 3 Credit Hours**  
(Cross-listed with BSCI 40146 and BSCI 70146) Fundamental concepts and paradigms of development as exemplified by major model organisms. This course will examine our modern understanding of the molecular, cellular and genetic basis of developmental biology.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**BSCI 50147 DEVELOPMENTAL NEUROBIOLOGY 3 Credit Hours**  
(Slashed with BSCI 40147 and BSCI 70147) Covers fundamental principles in developmental neurobiology, including molecular and cellular processes involved in the formation of the vertebrate central nervous system.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**BSCI 50148 PRINCIPLES OF INFECTIOUS DISEASE 3 Credit Hours**  
(Slashed with BSCI 40148 and BSCI 70148) Basic principles of infectious disease, with emphasis on major human pathogens including protozoa, bacteria, and viruses. Topics include infection establishment, spread within the host, pathology, immunity, and host behavior.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**BSCI 50150 MOLECULAR MECHANISMS OF DISEASE: CANCER 3 Credit Hours**  
(Cross-listed with BSCI 40150 and BSCI 70150) Explores the current understanding of molecular and cellular mechanisms of disease processes, including new technologies and modern strategies in the forefront of future biomedical research. Emphasis on a review of primary literature.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**BSCI 50151 MECHANISMS OF DISEASE: OBESITY AND RELATED METABOLIC DISEASES 3 Credit Hours**  
(Slashed with BSCI 40151 and BSCI 70151) Addresses obesity from multiple angles, including health and disease process, underlying physiology and cell and molecular biology, and the role of behavior. Emphasis on a review of primary literature to discuss obesity causes, consequences and treatments.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**BSCI 50152 MOLECULAR MECHANISMS OF DISEASE: NEUROLOGICAL DISORDERS 3 Credit Hours**

(Slashed with BSCI 40152 and BSCI 70152) Major concepts and theoretical principles underlying neurological disorders.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**BSCI 50154 DIABETES AND CARDIOVASCULAR DISEASE 3 Credit Hours**

(Slashed with BSCI 40154 and BSCI 70154) This course covers physiological aspects of diabetes and cardiovascular disease, including associated pathologies and therapies.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**BSCI 50157 NEUROBIOLOGY OF DRUG ADDICTION 3 Credit Hours**

(Slashed with BSCI 40157 and BSCI 70157) Introduction to neural structures, circuitry, and chemistry underlying drug addiction, main categories of drugs of abuse, and how brain cells and circuits are modified in response to addictive drugs.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**BSCI 50158 MOLECULAR BIOLOGY 3 Credit Hours**

(Cross-listed with BSCI 40158 and BSCI 70158) Molecular genetics, DNA and RNA structure, chromosomes DNA replication, recombination, genetic transcription and translation, gene expression, current concepts and technologies.

**Prerequisite:** BSCI 30156; and Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**BSCI 50159 MOLECULAR BIOLOGY LABORATORY 3 Credit Hours**

(Cross-listed with BSCI 40159 and BSCI 70159) Experience in research methods for studying cellular and molecular processes in plant and animal systems.

**Prerequisite:** Graduate standing; and special approval from instructor.

**Schedule Type:** Laboratory

**Contact Hours:** 9 lab

**Grade Mode:** Standard Letter

**BSCI 50160 MARINE BIOLOGY 3 Credit Hours**

(Cross-listed with BSCI 40160 and BSCI 70160) Natural history and ecology of marine organisms, with emphasis on life in coastal habitats. Lecture three hours weekly.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**BSCI 50162 SOIL BIOLOGY 3 Credit Hours**

(Cross-listed with BSCI 40162 and BSCI 70162) The ecology and physiology of organisms that live in soil, including microbes, plants and animals. The physical and chemical aspects of soil are introduced to understand how organisms in soils impact nutrient cycles and ecosystem development.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**BSCI 50163 EVOLUTION 3 Credit Hours**

Discussion of the history of evolutionary theory, the evidence of evolution the evolutionary forces and the products of those forces.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**BSCI 50166 ENVIRONMENTAL SENSOR TECHNOLOGY 2 Credit Hours**

(Slashed with BSCI 40166 and BSCI 70166) Provides learning experiences in the field of environmental wireless sensor technology for performing both isolated and collaborative tasks. Students will use practical tools for WST design.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**BSCI 50170 STREAM BIOLOGY 3 Credit Hours**

(Slashed with BSCI 40170 and BSCI 70170) Identification, biology and ecology of stream-inhabiting organisms. Lecture two hours, laboratory three hours weekly.

**Prerequisite:** Graduate standing.

**Schedule Type:** Laboratory, Lecture

**Contact Hours:** 2 lecture, 1 lab

**Grade Mode:** Standard Letter

**BSCI 50174 IMMUNOLOGY 3 Credit Hours**

(Cross-listed with BSCI 40174 and BSCI 70174) Survey of the mammalian host responses to self and non-self with emphasis on the cellular and molecular mechanisms by which innate and acquired immunity result. Experimental design and data analyses are related to current methodologies used to study immunology. Lecture three hours weekly. Graduate standing.

**Prerequisite:** BSCI 30171 and CHEM 10060, 10061 and 10062.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**BSCI 50193 VARIABLE TITLE WORKSHOP IN BIOLOGICAL SCIENCES 1-6 Credit Hours**

(Repeatable for credit) Topics to be offered will meet specific needs in the biological sciences.

**Prerequisite:** Permission; and graduate standing.

**Schedule Type:** Workshop

**Contact Hours:** 1-6 other

**Grade Mode:** Satisfactory/Unsatisfactory

**BSCI 50195 SPECIAL TOPICS IN BIOLOGY 1-3 Credit Hours**  
(Repeatable for credit) (Cross-listed with BSCI 40195 and BSCI 70195)  
Special topics in biology.

**Prerequisite:** Graduate standing; and special approval of instructor.

**Schedule Type:** Laboratory, Lecture

**Contact Hours:** 1-3 lecture, 2-6 lab

**Grade Mode:** Standard Letter-IP

**BSCI 50196 INDIVIDUAL INVESTIGATION 1-3 Credit Hours**  
(Repeatable for credit) (Cross-listed with BSCI 40196 and BSCI 70196)  
Individual investigation in biology.

**Prerequisite:** Graduate standing; and special approval of instructor.

**Schedule Type:** Individual Investigation

**Contact Hours:** 1-3 other

**Grade Mode:** Standard Letter-IP

**BSCI 50220 BIOINFORMATICS 3 Credit Hours**  
(Cross-listed with BTEC 40220) (Slashed with BSCI 40220 and BSCI 70220) Analysis of biological databases, including nucleic acid and protein sequence searching, multiple sequence alignment, protein classification, phylogenetic analysis, comparative genomics, proteomics, protein structure analysis.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**BSCI 50221 ECOLOGICAL GENOMICS 3 Credit Hours**  
(Slashed with BSCI 40221 and BSCI 70221) Covers principles, concepts and techniques of ecological genomics, emphasizing the application of genomics to ecology and biogeochemistry and using genomic, metagenomic, and metatranscriptomic data.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**BSCI 50222 INVASION BIOLOGY 3 Credit Hours**  
(Slashed with BSCI 40222 and BSCI 70222) This course will provide an overview of the science of biological invasions, focusing on the processes of introduction, establishment, and spread. It will discuss both invasions of species from other countries as well as encroachment of native species. The economic and ecological impacts of both plant and animal invasive species, as well as ways of combating the harmful effects of invasions will be discussed.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**BSCI 50242 SEMINAR ON MEDICAL PRACTICE FOR UNDERSERVED POPULATIONS 2 Credit Hours**  
(Slashed with BSCI 40242). Course will introduce students to primary care and medical practice in rural and urban settings. Physicians and other healthcare practitioners from rural and urban settings will serve as invited speakers in this seminar. Preference for registration will be given to students following the MA-MD program.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Seminar

**Contact Hours:** 2 other

**Grade Mode:** Satisfactory/Unsatisfactory

**BSCI 50272 PLANT ANATOMY 4 Credit Hours**  
(Cross-listed with BSCI 40272 and BSCI 70272) Development and structure of cells, tissues and tissue systems of seed plants. Both vegetative and reproductive structures of angiosperms will be emphasized. Lecture two hours, laboratory six hours weekly.

**Prerequisite:** Graduate standing.

**Schedule Type:** Laboratory, Lecture

**Contact Hours:** 3 lecture, 1 lab

**Grade Mode:** Standard Letter

**BSCI 50273 INTRODUCTION TO MYCOLOGY 3 Credit Hours**  
(Slashed with BSCI 40273 and BSCI 70273) Introduces the key features defining the fungi. Topics include anatomical and morphological features, reproductive strategies, identification, and community interactions.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**BSCI 50274 PLANT COMMUNITIES OF OHIO 3 Credit Hours**  
(Slashed with BSCI 40274 and BSCI 70274) Designed to familiarize students with the range of plant communities within Ohio by relating plant identification to biological, hydrological, geological, and climatic forces.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**BSCI 50275 PLANT SYSTEMATICS AND EVOLUTION 4 Credit Hours**  
(Cross-listed with BSCI 40275 and BSCI 70275) Introduction to vascular plant diversity, with a focus on flowering plants. Students will learn characteristics of vascular plants and how to identify major plant groups. Lecture three hours weekly, lab two hours weekly.

**Prerequisite:** Graduate standing.

**Schedule Type:** Laboratory, Lecture

**Contact Hours:** 3 lecture, 1 lab

**Grade Mode:** Standard Letter

**BSCI 50292 INTERNSHIP IN PRIMARY CARE FOR THE UNDERSERVED 2 Credit Hours**  
Students will be placed in internships in urban or rural healthcare settings. Preference will be given to students following the MA-MD program.

**Prerequisite:** Graduate Standing; and special approval.

**Schedule Type:** Practical Experience

**Contact Hours:** 6 other

**Grade Mode:** Standard Letter

**BSCI 50341 STEM CELL BIOLOGY: PRINCIPLES AND APPLICATIONS 3 Credit Hours**  
(Slashed with BSCI 40341 and BSCI 70341) Examination of stem cells from various tissues, molecular mechanism of stem cell differentiation, and use of stem cells in clinical applications.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**BSCI 50360 ICHTHYOLOGY 4 Credit Hours**

(Cross-listed with BSCI 40360 and 70360) Basic biology, natural history, behavior and ecology of the fishes. Three hour lecture and three hour lab weekly.

**Prerequisite:** Graduate standing.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 3 lecture, 3 lab

**Grade Mode:** Standard Letter

**BSCI 50363 MICROBIAL ECOLOGY 3 Credit Hours**

(Cross-listed with BSCI 40363 and BSCI 70363) Microbial interactions with their biotic and abiotic environment; control of distribution and physiological activities; emphasis on bacteria in aquatic systems.

**Prerequisite:** BSCI 30171, 30360; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**BSCI 50364 LIMNOLOGY 3 Credit Hours**

(Cross-listed with BSCI 40364 and BSCI 70364) The study of the principles of aquatic ecology with emphasis on lakes and reservoirs.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**BSCI 50365 FIELD METHODS IN ORNITHOLOGY 3 Credit Hours**

(Slashed with BSCI 40365 and BSCI 70365) Habitat-based survey of Ohio birds. Field-based lectures and activities cover location, observation and identification of birds and their songs, as well as bird ecology and behavior.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**BSCI 50368 WETLAND ECOLOGY AND MANAGEMENT 4 Credit Hours**

(Cross-listed with BSCI 40368 and BSCI 70368) Lecture, laboratory and field study of the principles of wetland ecology including adaptations of the biota to environmental conditions, comparison among different wetland habitat types and habitat management. Lecture 3 hours lab 3 hours weekly.

**Prerequisite:** Graduate standing.

**Schedule Type:** Laboratory, Lecture

**Contact Hours:** 3 lecture, 1 lab

**Grade Mode:** Standard Letter

**BSCI 50370 ECOLOGICAL AND EVOLUTIONARY GENETICS 2 Credit Hours**

(Cross-listed with BSCI 70370) Genetic and genomic approaches to studying ecology and evolution in populations and communities.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**BSCI 50371 EVOLUTIONARY BIOLOGY 2 Credit Hours**

(Cross-listed with BSCI 70371) Theoretical and experimental approaches to studying evolution from genes to populations and communities.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**BSCI 50372 COMMUNITIES AND ECOSYSTEMS 2 Credit Hours**

(Cross-listed with BSCI 70372) Theory and experimental approaches to studying community and ecosystem ecology.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**BSCI 50373 POPULATION AND COMMUNITY ECOLOGY 2 Credit Hours**

(Cross-listed with BSCI 70373) Theory and experimental approaches to studying population and community ecology.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**BSCI 50374 CONSERVATION BIOLOGY 4 Credit Hours**

(Cross-listed with BSCI 40374 and BSCI 70374) Provides a critical analysis of the factors that threaten biological diversity in the biosphere and the consequences on biological processes and quality of life.

**Prerequisite:** BSCI 30360; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 4 lecture

**Grade Mode:** Standard Letter

**BSCI 50375 ENVIRONMENTAL BIOLOGY AND MANAGEMENT 4 Credit Hours**

(Cross-listed with BSCI 40375 and BSCI 70375) Introduction to current concepts in applied ecology and ecosystem management. Students will learn aspects of ecosystem management and restoration including: 1) how environmental factors affect organism survival and ecosystem structure, 2) how human impacts such as pollution, habitat fragmentation, introduction of invasive species affect ecosystems, and 3) the use of ecological principles and methods to restore and manage ecosystems.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 4 lecture

**Grade Mode:** Standard Letter

**BSCI 50376 TROPICAL FIELD BIOLOGY AND CONSERVATION 5 Credit Hours**

(Cross-listed with BSCI 40376 and BSCI 70376) Introduction to major issues in tropical ecology and conservation including the threats to the biological diversity of tropical ecosystems resulting from human activities. Students learn how to apply modern field-observation techniques to generate and test problem-solving hypotheses.

**Prerequisite:** Graduate standing.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 3 lecture, 6 lab

**Grade Mode:** Standard Letter

**BSCI 50380 BIOGEOCHEMISTRY 3 Credit Hours**

(Cross-listed with GEOL 40380 and GEOL 50380) (Slashed with BSCI 40380 and BSCI 70380) Biogeochemistry explores the chemical, physical, geological, and biological processes and reactions that shape the world around us, and provides tools for understanding human alterations to global systems. In this course, we will explore elemental cycles in diverse terrestrial and aquatic ecosystems, as well as assess how humans have drastically altered these elemental cycles on a global scale, and the implications of these changes for biological systems.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**BSCI 50431 NEUROENDOCRINOLOGY 3 Credit Hours**

(Slashed with BSCI 40431 and BSCI 70431) This course is an introduction to neuroendocrinology. There will be a focus on the major sources of neurohormones, the different classes of neurohormones, as well as how neurohormones are regulated, how they signal, and how they function. This course will integrate aspects of endocrinology, neuroscience, and physiology. After completion of this course students should have a basic understanding of the various neuroendocrine messengers and how they function.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**BSCI 50432 ENDOCRINOLOGY 3 Credit Hours**

(Cross-listed with BSCI 40432 and BSCI 70432) Principles of endocrine regulation of physiological and metabolic processes. Morphological and functional interrelationships between systems. Lecture three hours weekly.

**Prerequisite:** BSCI 40430; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**BSCI 50433 MAMMALIAN PHYSIOLOGY I 3 Credit Hours**

Physiology of the endocrine, nervous, and reproductive systems.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**BSCI 50434 MAMMALIAN PHYSIOLOGY II 3 Credit Hours**

Physiology of cardiovascular, renal, respiratory and digestive systems. Lecture three hours.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**BSCI 50450 BIOLOGICAL CLOCKS 2 Credit Hours**

(Cross-listed with BSCI 40450 and BSCI 70450) Topics covered include the characteristics of biological clocks, their ecology, molecular biology, and neurobiology, the function and organization of sleep, and the medical implications of biological rhythmicity. Students enrolling at the graduate level should have some background in neurobiology and genetics.

**Prerequisite:** Graduate standing.

**Corequisite:** BSCI 50451.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**BSCI 50451 CURRENT TOPICS IN BIOLOGICAL CLOCKS RESEARCH 1 Credit Hour**

(Cross-listed with BSCI 70451) Discussion of current research literature in the area of research on biological clocks.

**Prerequisite:** Graduate standing.

**Corequisite:** BSCI 50450.

**Schedule Type:** Seminar

**Contact Hours:** 1 lecture

**Grade Mode:** Standard Letter-S/U

**BSCI 50460 ADVANCED HUMAN PHYSIOLOGY 3 Credit Hours**

(Slashed with BSCI 40460 and BSCI 70460) Major concepts and theoretical principles of human physiology, including nervous, endocrine, cardiovascular, respiratory, renal, gastrointestinal and reproductive systems.

**Prerequisite:** Graduate standing.

**Corequisite:** BSCI 50462.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**BSCI 50462 ADVANCED HUMAN PHYSIOLOGY: READINGS AND CASE STUDIES 1 Credit Hour**

(Slashed with BSCI 40462 and BSCI 70462) Designed to complement the lecture course in Advanced Human Physiology. Students will read primary literature in physiology and work independently and in groups to apply their knowledge to solving case studies.

**Prerequisite:** Graduate standing.

**Corequisite:** BSCI 50460.

**Schedule Type:** Lecture

**Contact Hours:** 1 lecture

**Grade Mode:** Standard Letter

**BSCI 50463 MEDICAL BIOTECHNOLOGY 3 Credit Hours**

(Slashed with BSCI 40463 and BSCI 70463) (Cross-listed with BTEC 40463) Medical Biotechnology provides a basic understanding of how living cells and cellular materials can be used for medical applications, particularly in the diagnosis and therapy of human diseases.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**BSCI 50466 MEDICAL AND VETERINARY ENTOMOLOGY 3 Credit Hours**

(Slashed with BSCI 40466 and BSCI 70466) This course covers the ecology of flies, lice, ticks, spiders, and other arthropods with a medical or veterinary importance. The course will consist of lectures and discussions on topics including evolutionary adaptations and lifecycles, allergic responses, disease transmission, forensic entomology, entomophobia, veterinary pests, and pest control techniques.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**BSCI 50515 ANIMAL BEHAVIOR 3 Credit Hours**

Explores the evolution of various animal behaviors, the functions they might serve, and the interplay among the social, ecological and physiological mechanisms that regulate their occurrence.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter



**BSCI 50517 MEDICAL HISTOLOGY 3 Credit Hours**

(Cross-listed with BSCI 40517 and BSCI 70517) Study of the microscopic and submicroscopic structure of the human body in relation to function. Lecture two hours, laboratory three hours weekly.

**Prerequisite:** Graduate standing.

**Schedule Type:** Laboratory, Lecture

**Contact Hours:** 2 lecture, 3 lab

**Grade Mode:** Standard Letter

**BSCI 50519 HORMONES AND BEHAVIOR 3 Credit Hours**

(Cross-listed with BSCI 40519 and BSCI 70519) Current concepts of hormone and behavior interactions across species.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**BSCI 50520 BEHAVIORAL EVOLUTION 3 Credit Hours**

(Cross-listed with BSCI 40520 and BSCI 70520) Examination of how behavior contributes to survival and reproduction in an ecological context. We consider how behavior may have evolved in a wide range of animals. Students enrolled at the graduate level in the course are expected to have had a course in evolution.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**BSCI 50525 WILDLIFE RESOURCES 3 Credit Hours**

(Cross-listed with BSCI 40525 and BSCI 70525) Ecological parameters are discussed relative to the preservation and management of wild animal populations. Aesthetic economic and environmental values are discussed. Lecture three hours weekly.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**BSCI 50556 VERTEBRATE ZOOLOGY 4 Credit Hours**

(Cross-listed with BSCI 40556 and BSCI 70556) Field approach to identification and natural history of all Ohio vertebrates except birds. Lecture three hours, laboratory and field three hours weekly.

**Prerequisite:** 4 hours of Biology; and graduate standing.

**Schedule Type:** Laboratory, Lecture

**Contact Hours:** 3 lecture, 3 lab

**Grade Mode:** Standard Letter

**BSCI 50558 MAMMALOLOGY 3 Credit Hours**

(Slashed with BSCI 40558 and BSCI 70558) This course will explore the biology of mammals. The course is organized into three sections. Section 1 will define what a mammal is and explore their origin, evolution, and modern distribution. Section 2 will survey modern mammal taxonomic diversity. Section 3 will explore the environmental physiology and various ecological roles that mammals play using specific case studies of mammalian ecological interactions in the world's major biomes.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**BSCI 50560 HERPETOLOGY 3 Credit Hours**

(Slashed with BSCI 40560 and BSCI 70560) This course will explore the biology of amphibians and reptiles. The course is organized into three sections. Section 1 we will explore their origin, evolution, and modern diversity of amphibians and reptiles (Yes, you will be required to memorize a whole mess of taxonomic names!). Section 2 will survey various aspects of the biology of amphibians and reptiles. Section 3 will explore the various aspects of the ecology of amphibians and reptiles, and examine a few critical topics in amphibian and reptile conservation.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**BSCI 50581 ANIMAL PARASITOLOGY 4 Credit Hours**

Morphology, physiology, life-histories, systematics and economic importance of parasites. Lecture two hours, lab six hours weekly.

**Prerequisite:** Graduate standing.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 2 lecture, 6 other

**Grade Mode:** Standard Letter

**BSCI 51110 BIOPHOTONICS 3 Credit Hours**

(Slashed with BSCI 41110; Cross-listed with CHEM 41010 and CHEM 51010 and PHY 41010 and PHY 51010) Interdisciplinary overview of the basics of biophotonics and application of biophotonic techniques to probe biological samples. Introduction to the foundations of optics and photonics and how the molecular structure of organic molecules translates into unique photonic properties and targeting in biological cells or tissue. Preparation of fluorescent materials, advanced spectroscopy and cell visualization using regular and confocal fluorescence microscopy.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 1 lecture, 6 lab

**Grade Mode:** Standard Letter

**BSCI 51120 BIOLOGICAL LIGHT MICROSCOPY 3 Credit Hours**

(Slashed with BSCI 41120 and BSCI 71120) Theoretical and practical information on the operation of optical microscopes, the application of transmission and fluorescence microscopy to biological specimens, and analysis of microscopic images.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**BSCI 60080 EXPERIMENTAL METHODS IN BIOLOGY 2 Credit Hours**

The development of hypotheses, principles of experimental design and methods of gathering and evaluating data.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**BSCI 60104 BIOLOGICAL STATISTICS 4 Credit Hours**

(Slashed with BSCI 70104) Principles of experimental design and statistical analysis and how to choose and interpret statistical tests using biological data sets.

**Prerequisite:** Graduate standing.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 3 lecture, 2 lab

**Grade Mode:** Standard Letter

**BSCI 60144 SELECTED READINGS IN EUKARYOTIC CELL BIOLOGY 1 Credit Hour**

(Cross-listed with BSCI 70144) Directed readings in cell and molecular biology from the primary and review literature will be presented and discussed by the students. Corequisite: BSCI 50143

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 1 lecture

**Grade Mode:** Standard Letter

**BSCI 60145 MEDICAL GENOMICS 3 Credit Hours**

(Cross-listed with BSCI 80145) Explores the relationship and contribution of genetics and genomics to healthcare issues, including disease susceptibility and therapeutic efficacy. Up-to-date genomics concepts and their applications to health care and the challenges of personalized medicine including genetic analyses (e.g., linkage and estimating population risks), ethical issues in genetic testing and therapy, genetic basis of disease processes (e.g., neurological, cardiovascular and neoplastic diseases) and epigenetic processes (that may link the environment to the risk of chronic diseases) are covered. This course requires an understanding of genetics and physiology; students should contact the Department of Biological Sciences to determine if they have the requisite prior training.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**BSCI 60184 RESPONSIBLE CONDUCT IN RESEARCH AND TEACHING-BIOLOGICAL SCIENCES 2 Credit Hours**

(Slashed with BSCI 70184) Educates biology graduate students in central aspects of the responsible and effective conduct of research and teaching. Topics include appropriate conduct in the laboratory, effective presentations and issues related to proposal and manuscript preparation and review.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Satisfactory/Unsatisfactory

**BSCI 60191 SEMINAR IN BIOLOGY 1 Credit Hour**

(Repeatable for credit) Departmental seminar required of all graduate students.

**Prerequisite:** Graduate standing.

**Schedule Type:** Seminar

**Contact Hours:** 1 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**BSCI 60198 RESEARCH 1-15 Credit Hours**

(Repeatable for credit) Research or individual investigation for master's level graduate students. Credits earned may be applied toward degree requirements if department approves.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Research

**Contact Hours:** 1-15 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**BSCI 60199 THESIS I 2-6 Credit Hours**

Thesis students must register for a minimum of 6 hours, 2 to 6 hours in a single semester distributed over several semesters if desired.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Masters Thesis

**Contact Hours:** 2-6 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**BSCI 60299 THESIS II 2 Credit Hours**

Thesis students must continue registration each semester until all degree requirements are met.

**Prerequisite:** BSCI 60199; and graduate standing.

**Schedule Type:** Masters Thesis

**Contact Hours:** 2 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**BSCI 60391 SEMINAR IN ECOLOGY 1 Credit Hour**

(Repeatable for credit) (Cross-listed with BSCI 70391) Seminar on topics in animal and plant ecology. Credits earned may be applied to degree if department approves.

**Prerequisite:** Graduate standing; and special approval of instructor.

**Schedule Type:** Seminar

**Contact Hours:** 1 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**BSCI 60440 CELLULAR AND MOLECULAR SIGNALING 3 Credit Hours**

(Cross-listed with BSCI 70440 and BMS 60440 and BMS 70440)

The relevant and current topics associated with cellular signaling is covered. Topics include receptor pharmacology, classes and regulation, transcription factors, cell cycle signaling and cell-cell communication.

**Prerequisite:** BSCI 4/5/70143; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**BSCI 60462 NEUROBIOLOGY: SYSTEMS AND BEHAVIOR 4 Credit Hours**

(Slashed with BSCI 80462; Cross-listed with BMS 60462 and BMS 70462) Provides broad coverage of the parts of the central nervous systems and how they integrate sensory information, drive motor function and regulate behavior.

**Prerequisite:** BMS 60729 or BMS 70729; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 4 lecture

**Grade Mode:** Standard Letter

**BSCI 60491 SEMINAR IN PHYSIOLOGY 1 Credit Hour**

(Repeatable for credit) (Cross-listed with BSCI 70491) Credits may be applied toward degree if department approves.

**Prerequisite:** Graduate standing; and special approval of instructor.

**Schedule Type:** Seminar

**Contact Hours:** 1 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**BSCI 70104 BIOLOGICAL STATISTICS 4 Credit Hours**

(Slashed with BSCI 60104) Principles of experimental design and statistical analysis, and how to choose and interpret statistical tests using biological data sets.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 3 lecture, 2 lab

**Grade Mode:** Standard Letter

**BSCI 70141 EXPERIMENTAL DESIGN AND ANALYSIS IN MOLECULAR BIOLOGY 3 Credit Hours**

(Slashed with BSCI 40141 and BSCI 50141) This course explores experimental design and analysis of biological data using tools of molecular biology. Students will study modern and classic techniques and learn the pros and cons of each technique as well as alternative approaches in the context of experiments. The course will consist of a combination of lectures, student presentations and class discussions based on recent primary literature, with particular focus on cell death and disease, including cancer.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**BSCI 70142 BIOENERGETICS 3 Credit Hours**

(Cross-listed with BSCI 40142 and BSCI 50142) Lecture and discussion of respiration and photosynthesis, their origin development and control in living systems. Concepts are introduced from fundamental principles. Lecture three hours weekly.

**Prerequisite:** BSCI 40430; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**BSCI 70143 EUKARYOTIC CELL BIOLOGY 3 Credit Hours**

(Cross-listed with BSCI 40143 and BSCI 70143) Current survey of the structure and function of eukaryotic cells, including recent advances in research technology. Lecture three hours weekly.

**Prerequisite:** BSCI 40430; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**BSCI 70144 SELECTED READINGS IN EUKARYOTIC CELL BIOLOGY 1 Credit Hour**

(Cross-listed with BSCI 60144) Directed readings in cell and molecular biology from the primary and review literature will be presented and discussed by the students.

**Prerequisite:** Doctoral standing.

**Corequisite:** BSCI 70143.

**Schedule Type:** Lecture

**Contact Hours:** 1 lecture

**Grade Mode:** Standard Letter

**BSCI 70146 DEVELOPMENTAL BIOLOGY 3 Credit Hours**

(Cross-listed with BSCI 40146 and BSCI 50146) Fundamental concepts and paradigms of development as exemplified by major model organisms. This course will examine our modern understanding of the molecular, cellular and genetic basis of developmental biology.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**BSCI 70147 DEVELOPMENTAL NEUROBIOLOGY 3 Credit Hours**

(Slashed with BSCI 40147 and BSCI 50147) Covers fundamental principles in developmental neurobiology, including molecular and cellular processes involved in the formation of the vertebrate central nervous system.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**BSCI 70148 PRINCIPLES OF INFECTIOUS DISEASE 3 Credit Hours**

(Slashed with BSCI 40148 and BSCI 50148) Basic principles of infectious disease, with emphasis on major human pathogens including protozoa, bacteria, and viruses. Topics include infection establishment, spread within the host, pathology, immunity, and host behavior.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**BSCI 70150 MOLECULAR MECHANISMS OF DISEASE: CANCER 3 Credit Hours**

(Cross-listed with BSCI 40150 and BSCI 50150) Explores the current understanding of molecular and cellular mechanisms of disease processes, including new technologies and modern strategies in the forefront of future biomedical research. Emphasis on a review of primary literature.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**BSCI 70151 MECHANISMS OF DISEASE: OBESITY AND RELATED METABOLIC DISEASES 3 Credit Hours**

(Slashed with BSCI 40151 and BSCI 50151) Addresses obesity from multiple angles, including health and disease process, underlying physiology and cell and molecular biology, and the role of behavior. Emphasis on a review of primary literature to discuss obesity causes, consequences and treatments.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**BSCI 70152 MOLECULAR MECHANISMS OF DISEASE: NEUROLOGICAL DISORDERS 3 Credit Hours**

(Slashed with BSCI 40152 and BSCI 50152) Major concepts and theoretical principles underlying neurological disorders.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**BSCI 70154 DIABETES AND CARDIOVASCULAR DISEASE 3 Credit Hours**

(Slashed with BSCI 40154 and BSCI 50154) This course covers physiological aspects of diabetes and cardiovascular disease, including associated pathologies and therapies.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**BSCI 70157 NEUROBIOLOGY OF DRUG ADDICTION 3 Credit Hours**

(Slashed with BSCI 40157 and BSCI 50157) Introduction to neural structures, circuitry, and chemistry underlying drug addiction, main categories of drugs of abuse, and how brain cells and circuits are modified in response to addictive drugs.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**BSCI 70158 MOLECULAR BIOLOGY 3 Credit Hours**

(Slashed with BSCI 40158 and BSCI 50158) Molecular genetics, DNA and RNA structure, chromosomes, DNA replication, recombination, genetic transcription and translation, gene expression, current concepts and technologies.

**Prerequisite:** BSCI 30156; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**BSCI 70159 MOLECULAR BIOLOGY LABORATORY 3 Credit Hours**

(Cross-listed with BSCI 40159 and BSCI 50159) Experience in research methods for studying cellular and molecular processes in plant and animal systems.

**Prerequisite:** Doctoral standing; and special approval from instructor.

**Schedule Type:** Laboratory

**Contact Hours:** 9 lab

**Grade Mode:** Standard Letter

**BSCI 70160 MARINE BIOLOGY 3 Credit Hours**

(Cross-listed with BSCI 40160 and BSCI 50160) Natural history and ecology of marine organisms, with emphasis on life in coastal habitats. Lecture three hours weekly.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**BSCI 70162 SOIL BIOLOGY 3 Credit Hours**

(Cross-listed with BSCI 40162 and BSCI 50162) The ecology and physiology of organisms that live in soil, including microbes, plants and animals. The physical and chemical aspects of soil are introduced to understand how organisms in soils impact nutrient cycles and ecosystem development.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**BSCI 70163 EVOLUTION 3 Credit Hours**

(Cross-listed with BSCI 40163 and BSCI 50163) Discussion of the history of evolutionary theory, the evidence of evolution, the evolutionary forces and the products of those forces. Doctoral standing.

**Prerequisite:** BSCI 30156 plus 4 hours of biology.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**BSCI 70166 ENVIRONMENTAL SENSOR TECHNOLOGY 2 Credit Hours**

(Slashed with BSCI 40166 and BSCI 50166) Provides learning experiences in the field of environmental wireless sensor technology for performing both isolated and collaborative tasks. Students will use practical tools for WST design.

**Prerequisite:** Doctoral standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**BSCI 70170 STREAM BIOLOGY 3 Credit Hours**

(Cross-listed with BSCI 40170 and BSCI 50170) Identification, biology and ecology of stream-inhabiting organisms. Lecture two, laboratory three hours weekly.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Laboratory, Lecture

**Contact Hours:** 2 lecture, 1 lab

**Grade Mode:** Standard Letter

**BSCI 70174 IMMUNOLOGY 3 Credit Hours**

(Cross-listed with BSCI 40174 and BSCI 50174) Survey of the mammalian host responses to self and non-self with emphasis on the cellular and molecular mechanisms by which innate and acquired immunity result. Experimental design and data analyses are related to current methodologies used to study immunology. Lecture three hours weekly. Doctoral standing.

**Prerequisite:** BSCI 30171 and CHEM 10060, 10061 and 10062.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**BSCI 70184 RESPONSIBLE CONDUCT IN RESEARCH AND TEACHING-BIOLOGICAL SCIENCES 2 Credit Hours**

(Slashed with BSCI 60184) Educates biology graduate students in central aspects of the responsible and effective conduct of research and teaching. Topics include appropriate conduct in the laboratory, effective presentations and issues related to proposal and manuscript preparation and review.

**Prerequisite:** Doctoral standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Satisfactory/Unsatisfactory

**BSCI 70191 SEMINAR IN BIOLOGY 1 Credit Hour**

(Repeatable for credit) Departmental seminar required of all graduate students.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Seminar

**Contact Hours:** 1 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**BSCI 70193 VARIABLE TITLE WORKSHOP IN BIOLOGICAL SCIENCES 1-6 Credit Hours**

(Repeatable for credit) Topics to be offered will meet specific needs in the biological sciences.

**Prerequisite:** Doctoral standing; and special approval.

**Schedule Type:** Workshop

**Contact Hours:** 1-6 other

**Grade Mode:** Satisfactory/Unsatisfactory

**BSCI 70195 SPECIAL TOPICS IN BIOLOGY 1-3 Credit Hours**

(Repeatable for credit) (Cross-listed with BSCI 40195 and BSCI 50195)

**Prerequisite:** Doctoral standing; and special approval of instructor.

**Schedule Type:** Laboratory, Lecture

**Contact Hours:** 1-3 lecture, 2-6 lab

**Grade Mode:** Standard Letter-IP

**BSCI 70196 INDIVIDUAL INVESTIGATION 1-3 Credit Hours**

(Repeatable for credit) (Cross-listed with BSCI 40196 and BSCI 50196)

**Prerequisite:** Doctoral standing; and special approval of instructor.

**Schedule Type:** Individual Investigation

**Contact Hours:** 1-3 other

**Grade Mode:** Standard Letter-IP



**BSCI 70220 BIOINFORMATICS 3 Credit Hours**

(Cross-listed with BTEC 40220) (Slashed with BSCI 40220 and BSCI 50220) Analysis of biological databases, including nucleic acid and protein sequence searching, multiple sequence alignment, protein classification, phylogenetic analysis, comparative genomics, proteomics, protein structure analysis.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**BSCI 70221 ECOLOGICAL GENOMICS 3 Credit Hours**

(Slashed with BSCI 40221 and BSCI 50221) Covers principles, concepts and techniques of ecological genomics, emphasizing the application of genomics to ecology and biogeochemistry and using genomic, metagenomic and metatranscriptomic data.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**BSCI 70222 INVASION BIOLOGY 3 Credit Hours**

(Slashed with BSCI 40222 and BSCI 50222) This course will provide an overview of the science of biological invasions, focusing on the processes of introduction, establishment, and spread. It will discuss both invasions of species from other countries as well as encroachment of native species. The economic and ecological impacts of both plant and animal invasive species, as well as ways of combating the harmful effects of invasions will be discussed.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**BSCI 70272 PLANT ANATOMY 4 Credit Hours**

(Cross-listed with BSCI 40272 and BSCI 50272) Development and structure of cells, tissues and tissue systems of seed plants. Both vegetative and reproductive structures of angiosperms will be emphasized. Lecture two hours, laboratory six hours weekly.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Laboratory, Lecture

**Contact Hours:** 3 lecture, 0 lab

**Grade Mode:** Standard Letter

**BSCI 70273 INTRODUCTION TO MYCOLOGY 3 Credit Hours**

(Slashed with BSCI 40273 and BSCI 50273) Introduces the key features defining the fungi. Topics include anatomical and morphological features, reproductive strategies, identification, and community interactions.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**BSCI 70274 PLANT COMMUNITIES OF OHIO 3 Credit Hours**

(Slashed with BSCI 40274 and BSCI 50274) Designed to familiarize students with the range of plant communities within Ohio by relating plant identification to biological, hydrological, geological, and climatic forces.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**BSCI 70275 PLANT SYSTEMATICS AND EVOLUTION 4 Credit Hours**

(Cross-listed with BSCI 40275 and BSCI 50275) Introduction to vascular plant diversity, with a focus on flowering plants. Students will learn characteristics of vascular plants and how to identify major plant groups. Lecture three hours weekly, lab two hours weekly.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Laboratory, Lecture

**Contact Hours:** 3 lecture, 1 lab

**Grade Mode:** Standard Letter

**BSCI 70341 STEM CELL BIOLOGY: PRINCIPLES AND APPLICATIONS 3 Credit Hours**

(Slashed with BSCI 40341 and BSCI 50341) Examination of stem cells from various tissues, molecular mechanism of stem cell differentiation, and use of stem cells in clinical applications.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**BSCI 70360 ICHTHYOLOGY 4 Credit Hours**

(Cross-listed with BSCI 40360 and BSCI 50360) Basic biology, natural history, behavior and ecology of the fishes. Three hour lecture and three hour lab weekly.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 3 lecture, 3 lab

**Grade Mode:** Standard Letter

**BSCI 70363 MICROBIAL ECOLOGY 3 Credit Hours**

(Cross-listed with BSCI 40363 and BSCI 50363) Microbial interactions with their biotic and abiotic environment; control of distribution and physiological activities; emphasis on bacteria in aquatic systems.

**Prerequisite:** BSCI 30171, 30360; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**BSCI 70364 LIMNOLOGY 3 Credit Hours**

(Cross-listed with BSCI 40364 and BSCI 50364) The study of the principles of aquatic ecology with emphasis on lakes and reservoirs.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**BSCI 70365 FIELD METHODS IN ORNITHOLOGY 3 Credit Hours**

(Slashed with BSCI 40365 and BSCI 50365) Habitat-based survey of Ohio birds. Field-based lectures and activities cover location, observation and identification of birds and their songs, as well as bird ecology and behavior.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter



**BSCI 70368 WETLAND ECOLOGY AND MANAGEMENT 4 Credit Hours**

(Cross-listed with BSCI 40368 and BSCI 50368) Lecture, laboratory and field study of the principles of wetland ecology including adaptations of the biota to environmental conditions, comparison among different wetland habitat types and habitat management. Lecture 3 hours, lab 3 hours weekly.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Laboratory, Lecture

**Contact Hours:** 3 lecture, 1 lab

**Grade Mode:** Standard Letter

**BSCI 70370 ECOLOGICAL AND EVOLUTIONARY GENETICS 2 Credit Hours**

(Cross-listed with BSCI 50370) Genetic and genomic approaches to studying ecology and evolution in populations and communities.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**BSCI 70371 EVOLUTIONARY BIOLOGY 2 Credit Hours**

(Cross-listed with BSCI 50371) Theoretical and experimental approaches to studying evolution from genes to populations and communities.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**BSCI 70372 COMMUNITIES AND ECOSYSTEMS 2 Credit Hours**

(Cross-listed with BSCI 50372) Theory and experimental approaches to studying community and ecosystem ecology.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**BSCI 70373 POPULATION AND COMMUNITY ECOLOGY 2 Credit Hours**

(Cross-listed with BSCI 50373) Theory and experimental approaches to studying population and community ecology.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**BSCI 70374 CONSERVATION BIOLOGY 4 Credit Hours**

(Cross-listed with BSCI 40374 and BSCI 50374) Provides a critical analysis of the factors that threaten biological diversity in the biosphere and the consequences on biological processes and quality of life.

**Prerequisite:** BSCI 30360; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 4 lecture

**Grade Mode:** Standard Letter

**BSCI 70375 ENVIRONMENTAL BIOLOGY AND MANAGEMENT 4 Credit Hours**

(Cross-listed with BSCI 40375 and BSCI 50375) Introduction to current concepts in applied ecology and ecosystem management. Students will learn aspects of ecosystem management and restoration including: 1) how environmental factors affect organism survival and ecosystem structure, 2) how human impacts such as pollution, habitat fragmentation, introduction of invasive species affect ecosystems, and 3) the use of ecological principles and methods to restore and manage ecosystems.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 4 lecture

**Grade Mode:** Standard Letter

**BSCI 70376 TROPICAL FIELD BIOLOGY AND CONSERVATION 5 Credit Hours**

(Cross-listed with BSCI 40376 and BSCI 50376) Introduction to major issues in tropical ecology and conservation including the threats to the biological diversity of tropical ecosystems resulting from human activities. Students learn how to apply modern field-observation techniques to generate and test problem-solving hypotheses.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 3 lecture, 6 lab

**Grade Mode:** Standard Letter

**BSCI 70380 BIOGEOCHEMISTRY 3 Credit Hours**

(Slashed with BSCI 40380 and BSCI 50380) Biogeochemistry explores the chemical, physical, geological, and biological processes and reactions that shape the world around us, and provides tools for understanding human alterations to global systems. In this course, we will explore elemental cycles in diverse terrestrial and aquatic ecosystems, as well as assess how humans have drastically altered these elemental cycles on a global scale, and the implications of these changes for biological systems.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**BSCI 70391 SEMINAR IN ECOLOGY 1 Credit Hour**

(Repeatable for credit) (Cross-listed with BSCI 60391) Seminar on topics in animal and plant ecology. Credits earned may be applied to degree if department approves.

**Prerequisite:** Doctoral standing; and special approval of instructor.

**Schedule Type:** Seminar

**Contact Hours:** 1 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**BSCI 70431 NEUROENDOCRINOLOGY 3 Credit Hours**

(Slashed with BSCI 40431 and BSCI 50431) This course is an introduction to neuroendocrinology. There will be a focus on the major sources of neurohormones, the different classes of neurohormones, as well as how neurohormones are regulated, how they signal, and how they function. This course will integrate aspects of endocrinology, neuroscience, and physiology. After completion of this course students should have a basic understanding of the various neuroendocrine messengers and how they function.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**BSCI 70432 ENDOCRINOLOGY 3 Credit Hours**

(Cross-listed with BSCI 40432 and BSCI 40432) Principles of endocrine regulation of physiological and metabolic processes. Morphological and functional interrelationships between systems. Lecture three hours weekly.

**Prerequisite:** BSCI 40430; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**BSCI 70433 MAMMALIAN PHYSIOLOGY I 3 Credit Hours**

Physiology of the endocrine, nervous, and reproductive systems.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**BSCI 70434 MAMMALIAN PHYSIOLOGY II 3 Credit Hours**

Physiology of cardiovascular, renal, respiratory and digestive systems.

Lecture three hours.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**BSCI 70440 CELLULAR AND MOLECULAR SIGNALING 3 Credit Hours**

(Slashed with BSCI 60440) (Crosslisted with BMS 60440 and BMS 70440)

The relevant and current topics associated with cellular signaling is covered. Topics include receptor pharmacology, classes and regulation, transcription factors, cell cycle signaling and cell-cell communication.

**Prerequisite:** BSCI 70143; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**BSCI 70450 BIOLOGICAL CLOCKS 2 Credit Hours**

(Cross-listed with BSCI 40450 and BSCI 50450) Topics covered include the characteristics of biological clocks, their ecology, molecular biology, and neurobiology, the function and organization of sleep, and the medical implications of biological rhythmicity. Students enrolling at the graduate level should have some background in neurobiology and genetics.

**Prerequisite:** Doctoral standing.

**Corequisite:** BSCI 70451.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**BSCI 70451 CURRENT TOPICS IN BIOLOGICAL CLOCKS RESEARCH 1 Credit Hour**

(Cross-listed with BSCI 50451) Discussion of current research literature in the area of research on biological clocks.

**Prerequisite:** Doctoral standing.

**Corequisite:** BSCI 70450.

**Schedule Type:** Seminar

**Contact Hours:** 1 lecture

**Grade Mode:** Standard Letter-S/U

**BSCI 70460 ADVANCED HUMAN PHYSIOLOGY 3 Credit Hours**

(Slashed with BSCI 40460 and BSCI 50460) Major concepts and theoretical principles of human physiology, including nervous, endocrine, cardiovascular, respiratory, renal, gastrointestinal and reproductive systems.

**Prerequisite:** Doctoral standing.

**Corequisite:** BSCI 70462.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**BSCI 70462 ADVANCED HUMAN PHYSIOLOGY: READINGS AND CASE STUDIES 1 Credit Hour**

(Slashed with BSCI 40462 and BSCI 50462) Designed to complement the lecture course in Advanced Human Physiology. Students will read primary literature in physiology and work independently and in groups to apply their knowledge to solving case studies.

**Prerequisite:** Doctoral standing.

**Corequisite:** BSCI 70460.

**Schedule Type:** Lecture

**Contact Hours:** 1 lecture

**Grade Mode:** Standard Letter

**BSCI 70463 MEDICAL BIOTECHNOLOGY 3 Credit Hours**

(Slashed with BSCI 40463 and BSCI 50463) (Cross-listed with BTEC 40463) Medical Biotechnology provides a basic understanding of how living cells and cellular materials can be used for medical applications, particularly in the diagnosis and therapy of human diseases.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**BSCI 70466 MEDICAL AND VETERINARY ENTOMOLOGY 3 Credit Hours**

(Slashed with BSCI 40466 and BSCI 50466) This course covers the ecology of flies, lice, ticks, spiders, and other arthropods with a medical or veterinary importance. The course will consist of lectures and discussions on topics including evolutionary adaptations and lifecycles, allergic responses, disease transmission, forensic entomology, entomophobia, veterinary pests, and pest control techniques.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**BSCI 70491 SEMINAR IN PHYSIOLOGY 1 Credit Hour**

(Repeatable for credit) (Cross-listed with BSCI 60491) Credits may be applied toward degree if department approves.

**Prerequisite:** Doctoral standing; and special approval of instructor.

**Schedule Type:** Seminar

**Contact Hours:** 1 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**BSCI 70515 ANIMAL BEHAVIOR 3 Credit Hours**

Explores the evolution of various animal behaviors, the functions they might serve, and the interplay among the social, ecological and physiological mechanisms that regulate their occurrence.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**BSCI 70517 MEDICAL HISTOLOGY 3 Credit Hours**

(Slashed with BSCI 40517 and BSCI 50517) Study of the microscopic and submicroscopic structure of the mammalian body in relation to function.

Lecture two hours laboratory three hours weekly.

**Prerequisite:** 4 hours of biology; and doctoral standing.

**Schedule Type:** Laboratory, Lecture

**Contact Hours:** 2 lecture, 3 lab

**Grade Mode:** Standard Letter

**BSCI 70519 HORMONES AND BEHAVIOR 3 Credit Hours**

(Cross-listed with BSCI 40519 and BSCI 70519) Current concepts of hormone and behavior interactions across species.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**BSCI 70520 BEHAVIORAL EVOLUTION 3 Credit Hours**

(Cross-listed with BSCI 40520 and BSCI 50520) Examination of how behavior contributes to survival and reproduction in an ecological context. We consider how behavior may have evolved in a wide range of animals. Students enrolled at the graduate level will be expected to have had a course in evolution.

**Prerequisite:** Doctoral standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**BSCI 70525 WILDLIFE RESOURCES 3 Credit Hours**

(Cross-listed with BSCI 40525 and BSCI 50525) Ecological parameters are discussed relative to the preservation and management of wild animal populations. Aesthetic economic and environmental values are discussed. Lecture three hours weekly.

**Prerequisite:** 4 hours of Biology; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**BSCI 70556 VERTEBRATE ZOOLOGY 4 Credit Hours**

(Cross-listed with BSCI 40556 and BSCI 50556) Field approach to identification and natural history of all Ohio vertebrates except birds.

Lecture three hours laboratory and field three hours weekly.

**Prerequisite:** 4 hours of Biology; and doctoral standing.

**Schedule Type:** Laboratory, Lecture

**Contact Hours:** 3 lecture, 3 lab

**Grade Mode:** Standard Letter

**BSCI 70558 MAMMALOGY 3 Credit Hours**

(Slashed with BSCI 40558 and BSCI 50558) This course will explore the biology of mammals. The course is organized into three sections. Section 1 will define what a mammal is and explore their origin, evolution, and modern distribution. Section 2 will survey modern mammal taxonomic diversity. Section 3 will explore the environmental physiology and various ecological roles that mammals play using specific case studies of mammalian ecological interactions in the world's major biomes.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**BSCI 70560 HERPETOLOGY 3 Credit Hours**

(Slashed with BSCI 40560 and BSCI 50560) This course will explore the biology of amphibians and reptiles. The course is organized into three sections. Section 1 we will explore their origin, evolution, and modern diversity of amphibians and reptiles (Yes, you will be required to memorize a whole mess of taxonomic names!). Section 2 will survey various aspects of the biology of amphibians and reptiles. Section 3 will explore the various aspects of the ecology of amphibians and reptiles, and examine a few critical topics in amphibian and reptile conservation.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**BSCI 71120 BIOLOGICAL LIGHT MICROSCOPY 3 Credit Hours**

(Slashed with BSCI 41120 and BSCI 51120) Theoretical and practical information on the operation of optical microscopes, the application of transmission and fluorescence microscopy to biological specimens, and analysis of microscopic images.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**BSCI 80145 MEDICAL GENOMICS 3 Credit Hours**

(Cross-listed with BSCI 60145) Explores the relationship and contribution of genetics and genomics to healthcare issues, including disease susceptibility and therapeutic efficacy. Up-to-date genomics concepts and their applications to health care and the challenges of personalized medicine including genetic analyses (e.g., linkage and estimating population risks), ethical issues in genetic testing and therapy, genetic basis of disease processes (e.g., neurological, cardiovascular and neoplastic diseases) and epigenetic processes (that may link the environment to the risk of chronic diseases) are covered. This course requires an understanding of genetics and physiology; students should contact the Department of Biological Sciences to determine if they have the requisite prior training.

**Prerequisite:** Doctoral standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**BSCI 80198 RESEARCH 1-15 Credit Hours**

(Repeatable for credit) Research or individual investigation for doctoral students who have not yet passed candidacy examination.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Research

**Contact Hours:** 1-15 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**BSCI 80199 DISSERTATION I 15 Credit Hours**

(Repeatable for credit) Doctoral dissertation, for which registration in at least two semesters is required first of which will be semester in which dissertation work is begun and continuing until the completion of 30 hours.

**Prerequisite:** Special approval; and doctoral standing.

**Schedule Type:** Dissertation

**Contact Hours:** 15 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**BSCI 80299 DISSERTATION II 15 Credit Hours**

(Repeatable for credit) Continuing registration of doctoral students who have completed the initial 30 hours of dissertation and continuing until all degree requirements are met.

**Prerequisite:** BSCI 80199; and doctoral standing.

**Schedule Type:** Dissertation

**Contact Hours:** 15 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**BSCI 80462 NEUROBIOLOGY: SYSTEMS AND BEHAVIOR 4 Credit Hours**

(Slashed with BSCI 60462; Cross-listed with BMS 60462 and BMS 70462) Provides broad coverage of the parts of the central nervous systems and how they integrate sensory information, drive motor function and regulate behavior.

**Prerequisite:** BMS 60729 or BMS 70729; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 4 lecture

**Grade Mode:** Standard Letter

## Clinical Laboratory Sciences (CLS)

**CLS 49010 CLINICAL MICROBIOLOGY: THEORY 4 Credit Hours**

Theoretical consideration of laboratory isolation, cultivation, identification and characterization of pathogenic microorganisms.

**Prerequisite:** Medical technology major.

**Schedule Type:** Clinical Laboratory

**Contact Hours:** 8 other

**Grade Mode:** Standard Letter-IP

**CLS 49011 CLINICAL MICROBIOLOGY: APPLICATIONS 4 Credit Hours**

Applied and practical considerations of theoretical aspects of laboratory isolation, cultivation, identification and characterization of pathogenic microorganisms.

**Prerequisite:** Medical Technology major.

**Schedule Type:** Clinical Laboratory

**Contact Hours:** 8 other

**Grade Mode:** Standard Letter-IP

**CLS 49012 CLINICAL IMMUNOLOGY: THEORY 1 Credit Hour**

Theoretical considerations of laboratory practices involving quantitation and detection of antigens and antibodies and the significance of these findings in pathological states.

**Prerequisite:** Medical technology major.

**Schedule Type:** Clinical Laboratory

**Contact Hours:** 2 other

**Grade Mode:** Standard Letter-IP

**CLS 49013 CLINICAL IMMUNOLOGY: APPLICATIONS 1 Credit Hour**

Applied and practical consideration of laboratory practices in immunology and serology relating to diagnosis of disease states.

**Prerequisite:** Medical technology major.

**Schedule Type:** Clinical Laboratory

**Contact Hours:** 2 other

**Grade Mode:** Standard Letter-IP

**CLS 49014 CLINICAL MYCOLOGY: THEORY AND APPLICATIONS 1 Credit Hour**

Theoretical, applied and practical consideration of the isolation, identification and characterization of pathogenic fungi and their relation to human disease states.

**Prerequisite:** Medical technology major.

**Schedule Type:** Clinical Laboratory

**Contact Hours:** 2 other

**Grade Mode:** Standard Letter-IP

**CLS 49015 CLINICAL PARASITOLOGY: THEORY AND APPLICATIONS 1 Credit Hour**

Theoretical, applied and practical considerations of the isolation identification and characterization of human parasites and their relations to pathologic conditions.

**Prerequisite:** Medical technology major.

**Schedule Type:** Clinical Laboratory

**Contact Hours:** 2 other

**Grade Mode:** Standard Letter-IP

**CLS 49020 CLINICAL CHEMISTRY: THEORY 4 Credit Hours**

Theoretical considerations of the principles of clinical chemistry relating to the identification and quantitation of biologically important substances in blood and other body fluids.

**Prerequisite:** Medical technology major.

**Schedule Type:** Clinical Laboratory

**Contact Hours:** 8 other

**Grade Mode:** Standard Letter-IP

**CLS 49021 CLINICAL CHEMISTRY: APPLICATIONS 3 Credit Hours**

Applied and practical considerations of clinical chemistry principles relating to significant changes in body fluids as the result of pathologic conditions.

**Prerequisite:** Medical technology major.

**Schedule Type:** Clinical Laboratory

**Contact Hours:** 6 other

**Grade Mode:** Standard Letter-IP

**CLS 49022 URINALYSIS: THEORY 1 Credit Hour**

Theoretical considerations of the physiological activities of the renal system together with laboratory principles of analysis of urine and other body fluids.

**Prerequisite:** Medical technology major.

**Schedule Type:** Clinical Laboratory

**Contact Hours:** 2 other

**Grade Mode:** Standard Letter-IP

**CLS 49023 URINALYSIS: APPLICATIONS 1 Credit Hour**

Applied and practical considerations of laboratory practices in urine and other body fluid analysis as aids in diagnosis of disease.

**Prerequisite:** Medical technology major.

**Schedule Type:** Clinical Laboratory

**Contact Hours:** 2 other

**Grade Mode:** Standard Letter-IP

**CLS 49030 IMMUNOHEMATOLOGY: THEORY 2 Credit Hours**

Theoretical consideration of laboratory procedures involved in blood grouping and typing; identification of blood group antigens and antibodies collection and preparation of blood for transfusion.

**Prerequisite:** Medical technology major.

**Schedule Type:** Clinical Laboratory

**Contact Hours:** 4 other

**Grade Mode:** Standard Letter-IP



**CLS 49031 IMMUNOHEMATOLOGY: APPLICATIONS 2 Credit Hours**

Applied and practical consideration of laboratory methods for the administration of blood and its components.

**Prerequisite:** Medical technology major.

**Schedule Type:** Clinical Laboratory

**Contact Hours:** 4 other

**Grade Mode:** Standard Letter-IP

**CLS 49032 COAGULATION: THEORY AND APPLICATIONS 1 Credit Hour**

Theoretical consideration of the coagulation mechanism and its relation to pathological states; identification of abnormalities and deficiencies.

**Prerequisite:** Medical technology major.

**Schedule Type:** Clinical Laboratory

**Contact Hours:** 2 other

**Grade Mode:** Standard Letter-IP

**CLS 49033 CLINICAL HEMATOLOGY: THEORY 2 Credit Hours**

Theoretical considerations of the development of formed elements; identification of marrow and blood cells; study of normal and abnormal cellular blood components.

**Prerequisite:** Medical technology major.

**Schedule Type:** Clinical Laboratory

**Contact Hours:** 4 other

**Grade Mode:** Standard Letter-IP

**CLS 49034 CLINICAL HEMATOLOGY: APPLICATIONS 2 Credit Hours**

Applied and practical consideration of laboratory methods and procedures in identification and enumeration of normal and abnormal formed elements of blood.

**Prerequisite:** Medical technology major.

**Schedule Type:** Clinical Laboratory

**Contact Hours:** 4 other

**Grade Mode:** Standard Letter-IP

**CLS 49040 TOPICS IN LABORATORY MANAGEMENT 1 Credit Hour**

Consideration of topics relating to safety, education, personnel, budgeting, scheduling and medical legal problems. Repeatable for a total of 4 hours.

**Prerequisite:** Medical technology major.

**Schedule Type:** Clinical Laboratory

**Contact Hours:** 2 other

**Grade Mode:** Standard Letter-IP

**CLS 49095 SPECIAL TOPICS IN MEDICAL TECHNOLOGY 1-4 Credit Hours**

(Repeatable for a maximum of 4 credit hours) Topical consideration of special techniques encountered in nuclear medicine, cytology, cytogenetics, virology, toxicology and special instrumentation.

**Prerequisite:** Medical technology major.

**Schedule Type:** Clinical Laboratory

**Contact Hours:** 2-8 other

**Grade Mode:** Standard Letter-IP

## Neuroscience (NEUR)

**NEUR 10100 SEMINAR IN NEUROSCIENCE 1 Credit Hour**

Course provides an overview of the neuroscience field, including areas of neuroscience research, foundational principles in neuroscience, current questions and techniques, career possibilities and examples of research being conducted by neuroscience faculty.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 1 lecture

**Grade Mode:** Satisfactory/Unsatisfactory

**NEUR 30100 NEUROSCIENCE I 3 Credit Hours**

(Crosslisted with BSCI 30100) Course covers basic principles in neuroscience, from the cellular to systems levels. Provides students a basic understanding of how the nervous system is organized, electrophysiology properties of neurons, sensory systems and motor pathways.

**Prerequisite:** BSCI 30140.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**NEUR 30200 NEUROSCIENCE II 3 Credit Hours**

(Cross-listed with BSCI 30200) Course builds off of the principles taught in Neuroscience I by providing more depth and breadth to the functioning of the nervous system. Course provides students a more complete understanding of the neuroanatomy, neurophysiology and neural circuitry involved in sensory processing, motor control and higher order cognitive functioning.

**Prerequisite:** NEUR 30100 or BSCI 30100.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**NEUR 30300 EXPERIMENTAL METHODS IN NEUROSCIENCE 1 Credit Hour**

(Cross-listed with BSCI 30300) Accompanying laboratory for NEUR 30200 or BSCI 30200. Course provides a greater depth of understanding into and hand-on experience with the principles discussed in NEUR 30200 or BSCI 30200. Course provides students a full understanding in the major research techniques used in neuroscience. The major topics covered include: electrophysiology, neuroanatomy, learning and memory, the neuromuscular junction and sensory perception. .

**Prerequisite:** NEUR 30100 or BSCI 30100 with minimum C grade.

**Pre/corequisite:** NEUR 30200 or BSCI 30200.

**Schedule Type:** Laboratory

**Contact Hours:** 3 lab

**Grade Mode:** Standard Letter

**NEUR 40192 INTERNSHIP IN NEUROSCIENCE (ELR) 3-12 Credit Hours**

Work experience and training in neuroscience under the supervision of appropriate personnel in a government agency, nonprofit organization or business.

**Prerequisite:** NEUR 30200; and special approval.

**Schedule Type:** Practical Experience

**Contact Hours:** 9-36 other

**Grade Mode:** Standard Letter

**Attributes:** Experiential Learning Requirement

**NEUR 40195 SPECIAL TOPICS IN NEUROSCIENCE 1-3 Credit Hours**

Topics in neuroscience vary per course offering.

**Prerequisite:** NEUR 30200.

**Schedule Type:** Laboratory, Lecture, Combined Lecture and Lab

**Contact Hours:** 1-3 lecture, 2-6 lab

**Grade Mode:** Standard Letter

**NEUR 40196 INDIVIDUAL INVESTIGATION IN NEUROSCIENCE 1-3 Credit Hours**

Research study under the guidance of a neuroscience faculty member.

**Prerequisite:** NEUR 30200

**Schedule Type:** Laboratory

**Contact Hours:** 3-9 lab

**Grade Mode:** Standard Letter



## Biological Sciences - Botany - M.S.

**College of Arts and Sciences**  
 Department of Biological Sciences  
 256 Cunningham Hall  
 Kent Campus  
 330-672-3613  
 kentbiology@kent.edu  
 www.kent.edu/biology

### Description

**Admission to the Master of Science degree in Biological Sciences–Botany has been temporarily suspended as of fall 2017.**

The Master of Science degree in Biological Sciences–Botany offers research in plant systematics, taxonomy, evolutionary studies, molecular biology, ecology and genetics. The program provides a broad background in botanical sciences and training in research. Graduate students in botany are encouraged to become familiar with cognate disciplines that will enhance their scholarship and research potential; these include biometry, biochemistry, geology, geography and relevant foreign languages.

### Admission Requirements

- Bachelor's degree from an accredited college or university for unconditional admission
- Undergraduate coursework roughly equivalent to a Biology minor
- Minimum 3.000 undergraduate GPA on a 4.000 point scale for unconditional admission
- Official transcript(s)
- GRE scores (general test)
- Goal statement
- Three letters of recommendation
- Acceptance of the student by a faculty advisor
- A list of up to five potential faculty advisors
- English language proficiency - all international students must provide proof of English language proficiency (unless they meet specific exceptions) by earning one of the following:
  - Minimum 587 TOEFL PBT score (paper-based version)
  - Minimum 94 TOEFL IBT score (Internet-based version)
  - Minimum 82 MELAB score
  - Minimum 7.0 IELTS score
  - Minimum 65 PTE score
  - Minimum 120 Duolingo English Test score

For more information about graduate admissions, please visit the Graduate Studies admission website. For more information on international admission, visit the Office of Global Education's admission website.

### Program Learning Outcomes

Graduates of this program will be able to:

1. Understand advanced biological concepts beyond the scope of the typical undergraduate degree and increase the depth of their knowledge through coursework and hands-on experiences.

2. Apply scientific principles and appreciate work outside of their particular field.
3. Effectively communicate about science with colleagues as well as those outside of their area of expertise.
4. Develop the necessary laboratory skills that will allow testing of hypotheses.

## Program Requirements

### Major Requirements

**Admission to the Master of Science degree in Biological Sciences–Botany has been temporarily suspended as of fall 2017.**

Code	Title	Credit Hours
<b>Major Requirements</b>		
BSCI 50370	ECOLOGICAL AND EVOLUTIONARY GENETICS	2
BSCI 50371	EVOLUTIONARY BIOLOGY	2
BSCI 50372	COMMUNITIES AND ECOSYSTEMS	2
BSCI 60184	RESPONSIBLE CONDUCT IN RESEARCH AND TEACHING-BIOLOGICAL SCIENCES <sup>1</sup>	0-2
BSCI 60199	THESIS I <sup>2</sup>	6
Additional Requirements		18-20
Minimum Total Credit Hours:		30

- <sup>1</sup> Students who will serve as teaching assistants are required to take BSCI 60184 their first semester (or the following fall semester for those starting their studies in spring semester). Students who are not teaching assistants do not have to take the course; however, they must complete an additional 2 credit hours of additional coursework to meet the minimum 32 credit hours to graduate.
- <sup>2</sup> A master's thesis is required for the degree. M.S. degree candidates begin research for the thesis by successfully preparing, presenting and defending a formal prospectus for their research project to their thesis committee. It is expected that the student will present the results of their study in a defense open to students and faculty. The thesis must be presented and defended before the Guidance Committee with not more than one negative vote in order to be recommended to the department and College of Arts and Sciences for degree conferral.

## Biological Sciences - Botany - Ph.D.

**College of Arts and Sciences**  
 Department of Biological Sciences  
 256 Cunningham Hall  
 Kent Campus  
 330-672-3613  
 kentbiology@kent.edu  
 www.kent.edu/biology

### Description

**Admission to the Ph.D. degree in Biological Sciences–Botany has been temporarily suspended as of fall 2017.**

The Ph.D. degree in Biological Sciences-Botany offers research in plant systematics, taxonomy, evolutionary studies, molecular biology, ecology and genetics. The program provides a broad background in botanical sciences and training in research. Graduate students in botany are encouraged to become familiar with cognate disciplines that will

enhance their scholarship and research potential; these include biometry, biochemistry, geology, geography and relevant foreign languages.

## Admission Requirements

- Bachelor's degree, or higher, from an accredited college or university for unconditional admission
- Undergraduate coursework roughly equivalent to a Biology minor
- Minimum 3.000 GPA on a 4.000 point scale for unconditional admission
- Official transcript(s)
- GRE scores(general test)
- Goal statement
- Three letters of recommendation
- Acceptance of the student by a faculty advisor
- A list of up to five potential faculty advisors
- English language proficiency - all international students must provide proof of English language proficiency (unless they meet specific exceptions) by earning one of the following:
  - Minimum 587 TOEFL PBT score (paper-based version)
  - Minimum 94 TOEFL IBT score (Internet-based version)
  - Minimum 82 MELAB score
  - Minimum 7.0 IELTS score
  - Minimum 65 PTE score
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## Program Learning Outcomes

Graduates of this program will be able to:

1. Understand advanced biological concepts beyond the scope of the typical undergraduate degree and increase the depth of their knowledge through coursework and hands-on experiences.
2. Apply scientific principles and appreciate work outside of their particular field.
3. Effectively communicate about science with colleagues as well as those outside of their area of expertise.
4. Develop the necessary laboratory skills that will allow testing of hypotheses.

## Program Requirements

### Major Requirements

*Admission to the Ph.D. in Biological Sciences—Botany has been temporarily suspended as of fall 2017.*

Code	Title	Credit Hours
<b>Major Requirements</b>		
BSCI 70184	RESPONSIBLE CONDUCT IN RESEARCH AND TEACHING-BIOLOGICAL SCIENCES <sup>1</sup>	0-2
BSCI 70370	ECOLOGICAL AND EVOLUTIONARY GENETICS	2
BSCI 70371	EVOLUTIONARY BIOLOGY	2
BSCI 70372	COMMUNITIES AND ECOSYSTEMS	2
BSCI 80199	DISSERTATION I <sup>2</sup>	30

Additional Electives	22-52
<b>Minimum Total Credit Hours for Post-Baccalaureate Students</b>	<b>90</b>
<b>Minimum Total Credit Hours for Post-Master's Students</b>	<b>60</b>

<sup>1</sup> Students who will serve as teaching assistants are required to take BSCI 70184 their first semester (or the following fall semester for those starting their studies in spring semester). Students who are not teaching assistants do not have to take the course; however, they must complete an additional 2 credit hours of additional coursework to meet the minimum credit hours to graduate.

<sup>2</sup> Each doctoral candidate, upon admission to candidacy, must register for BSCI 80199 for a total of 30 credit hours. It is expected that a doctoral candidate will continuously register for Dissertation I, and thereafter BSCI 80299, each semester, until all requirements for the degree have been met.

## Candidacy for the Degree

After completing the required coursework, students complete the doctoral program by being admitted to candidacy, by proposing a research project to the faculty, and by completing and defending that research with a written dissertation before a faculty committee.

**Candidacy Exams:** The student is admitted to doctoral candidacy following successful completion of both written and oral candidacy examinations. These exams are based on prior coursework and coursework taken in this graduate program as determined by the student's academic Guidance Committee, which must consist of at least three eligible faculty members. The advisor(s) and a majority of members of the Guidance Committee must be members of the appropriate graduate program. This committee is responsible for determining the student's academic curriculum and for administering the candidacy exams. Following successful completion of candidacy exams, the student registers for dissertation - BSCI 80199 for two semesters and, thereafter, for BSCI 80299 continually until complete.

**Prospectus:** Following completion of the candidacy exam, the doctoral student must successfully prepare, present and defend a formal prospectus of the research project before his or her dissertation committee.

**Dissertation and Final Defense:** The doctoral candidate must complete a dissertation. It is expected that the candidate will present the results of her or his research in a defense open to students and faculty, at which the dissertation will be presented and defended before the dissertation committee, with not more than one negative vote, in order to be recommended to the department and College of Arts and Sciences for degree conferral.

## Biological Sciences - Cell Biology and Molecular Genetics - M.S.

**College of Arts and Sciences**  
 Department of Biological Sciences  
 256 Cunningham Hall  
 Kent Campus  
 330-672-3613  
 kentbiology@kent.edu  
 www.kent.edu/biology

## Description

The Master of Science degree in Biological Sciences–Cell Biology and Molecular Genetics is an individualized program of study and research that prepares students for career opportunities in teaching and research in academic, governmental and industrial settings. A core series of courses sets a rigorous foundation in theory, experimental design and technical knowledge of contemporary investigations at the cellular level of organization. Areas of research include developmental biology, cellular and developmental neuroscience, immunology, reproductive biology, cellular endocrinology and molecular genetics.

### Fully Offered At:

- Kent Campus

## Admission Requirements

- Bachelor's degree from an accredited college or university for unconditional admission
- Completion of undergraduate coursework roughly equivalent to a Biology minor
- Minimum 3.000 undergraduate GPA on a 4.000 point scale for unconditional admission
- Official transcript(s)
- GRE scores (general test)
- Goal statement
- Three letters of recommendation
- A list of up to five potential faculty advisors
- English language proficiency - all international students must provide proof of English language proficiency (unless they meet specific exceptions) by earning one of the following:
  - Minimum 587 TOEFL PBT score (paper-based version)
  - Minimum 94 TOEFL IBT score (Internet-based version)
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## Program Learning Outcomes

Graduates of this program will be able to:

1. Understand advanced biological concepts beyond the scope of the typical undergraduate degree and increase the depth of their knowledge through coursework and hands-on experiences.
2. Apply scientific principles and appreciate work outside of their particular field.
3. Effectively communicate about science with colleagues as well as those outside of the student's area of expertise.
4. Develop the necessary laboratory skills that will allow testing of hypotheses.

## Program Requirements

### Major Requirements

Code	Title	Credit Hours
<b>Major Requirements</b>		
BSCI 50142	BIOENERGETICS <sup>1</sup>	3
BSCI 50143	EUKARYOTIC CELL BIOLOGY	3
BSCI 60103	<sup>1</sup>	3
BSCI 60144	SELECTED READINGS IN EUKARYOTIC CELL BIOLOGY	1
BSCI 60184	RESPONSIBLE CONDUCT IN RESEARCH AND TEACHING-BIOLOGICAL SCIENCES <sup>2</sup>	2
BSCI 60199	THESIS I <sup>3</sup>	6
BSCI 60491	SEMINAR IN PHYSIOLOGY (repeated each semester)	4-6
Major Electives <sup>4</sup>		8-10
Student Seminar Presentation <sup>5</sup>		
Minimum Total Credit Hours:		32

<sup>1</sup> Students may substitute a different graduate-level biochemistry or statistics course for BSCI 50142 or BSCI 60103, respectively, if deemed appropriate by the students' advisor/guidance committee.

<sup>2</sup> Students are required to enroll in BSCI 60184 their first semester (or the following fall semester for those starting their studies in the spring semester).

<sup>3</sup> After completing 6 credit hours of BSCI 60199, students must register continually for BSCI 60299 until the degree is earned. Students begin research by successfully preparing, presenting and defending a formal prospectus for their research project to their committee. For the thesis and final defense, it is expected that students will present the results of their study in a defense open to students and faculty. The thesis must be presented and defended before the Guidance Committee with not more than one negative vote in order to be recommended to the Department of Biological Sciences and the College of Arts and Sciences for degree conferral.

<sup>4</sup> Students are to select courses in consultation with their academic faculty advisor. It is recommended that students enroll in BSCI 50195 for selected current topics. Additional coursework should provide the necessary skills and/or knowledge base to aid in the completion of the student's research project and be beneficial for their professional development.

<sup>5</sup> Students are required to present at least one departmental seminar about their work.

### Graduation Requirement

Students must complete a minimum 14 credit hours of graded (A-F) courses toward their degree.

## Biological Sciences - Cell Biology and Molecular Genetics - Ph.D.

### College of Arts and Sciences

Department of Biological Sciences  
256 Cunningham Hall  
Kent Campus  
330-672-3613

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www.kent.edu/biology

## Description

The Ph.D. degree in Biological Sciences—Cell Biology and Molecular Genetics is an individualized program of study and research that prepares students for career opportunities in teaching and research in academic, governmental and industrial settings. A core series of courses sets a rigorous foundation in theory, experimental design and technical knowledge of contemporary investigations at the cellular level of organization. Areas of research include developmental biology, cellular and developmental neuroscience, immunology, reproductive biology, cellular endocrinology and molecular genetics.

### Fully Offered At:

- Kent Campus

## Admission Requirements

- Bachelor's degree or higher from an accredited college or university<sup>1</sup> for unconditional admission
- Minimum 3.000 GPA on a 4.000 point scale for unconditional admission
- Official transcript(s)
- GRE scores
- Goal statement
- Three letters of recommendation
- A list of up to five potential faculty advisors
- English language proficiency - all international students must provide proof of English language proficiency (unless they meet specific exceptions) by earning one of the following:
  - Minimum 587 TOEFL PBT score (paper-based version)
  - Minimum 94 TOEFL IBT score (Internet-based version)
  - Minimum 82 MELAB score
  - Minimum 7.0 IELTS score
  - Minimum 65 PTE score
  - Minimum 120 Duolingo English Test score

Before admission can be completed, a prospective student must be accepted by a faculty member in the program who will act as advisor. For more information about graduate admissions, please visit the Graduate Studies admission website. For more information on international admission, visit the Office of Global Education's admission website.

<sup>1</sup> Applicants should have a bachelor's degree, or higher, in the natural sciences, with a minimum of two years of chemistry, one year of calculus, one year of physics and two years of biology, including genetics, plant or animal physiology and morphology. Student deficiencies in these areas at the time of admission shall be rectified during the first year of graduate study.

## Program Learning Outcomes

Graduates of this program will be able to:

1. Understand advanced biological concepts beyond the scope of the typical undergraduate degree and to increase the depth of their knowledge through coursework and hands-on experiences.

2. Apply scientific principles and appreciate work outside of their particular field.
3. Effectively communicate about science with colleagues as well as those outside of the student's area of expertise.
4. Develop the necessary laboratory skills that will allow testing of hypotheses.

## Program Requirements

### Major Requirements

Code	Title	Credit Hours
<b>Major Requirements</b>		
BSCI 70142	BIOENERGETICS <sup>1</sup>	3
BSCI 70143	EUKARYOTIC CELL BIOLOGY	3
BSCI 70144	SELECTED READINGS IN EUKARYOTIC CELL BIOLOGY	1
BSCI 70184	RESPONSIBLE CONDUCT IN RESEARCH AND TEACHING-BIOLOGICAL SCIENCES <sup>2</sup>	2
BSCI 70491	SEMINAR IN PHYSIOLOGY (repeated each semester until candidacy)	3-6
BSCI 80199	DISSERTATION I <sup>3</sup>	30
Additional Electives <sup>4</sup>		45-48
Student Seminar Presentation <sup>5</sup>		
<b>Minimum Total Credit Hours for Post-Baccalaureate Students</b>		<b>90</b>
<b>Minimum Total Credit Hours for Post-Master's Students</b>		<b>60</b>

- <sup>1</sup> Students may substitute a different graduate-level statistics or biochemistry course for BSCI 70142, respectively, if deemed appropriate by the students' advisor/guidance committee.
- <sup>2</sup> Students are required to take BSCI 70184 their first semester (or the following fall semester for those starting their studies in the spring semester).
- <sup>3</sup> Doctoral candidates, upon admission to candidacy, must register for BSCI 80199 for a total of 30 hours. It is expected that doctoral candidates will continuously register for BSCI 80199, and thereafter BSCI 80299, each semester, until all requirements for the degree have been met. It is expected that candidates will present the results of their research in a defense open to students and faculty, at which the dissertation will be presented and defended before the dissertation committee, with not more than one negative vote, in order to be recommended to the Department of Biological Sciences and the College of Arts and Sciences for degree conferral.
- <sup>4</sup> Students are to select courses in consultation with their academic faculty advisor. It is recommended that students enroll in BSCI 70195 for selected current topics. Additional coursework should provide the necessary skills and/or knowledge base to aid in the completion of the student's research project and be beneficial for their professional development.
- <sup>5</sup> Students are required to present at least one departmental seminar about their work.

### Graduation Requirement

Students must complete a minimum 20 credit hours of graded (A-F) courses toward their degree.

## Candidacy for the Degree

Following completion of the candidacy exam, doctoral students must successfully prepare, present and defend a formal prospectus of the research project before the dissertation committee.

**Candidacy Exams:** The student is admitted to doctoral candidacy following successful completion of both written and oral candidacy examinations. These exams are based on prior coursework and coursework taken in this graduate program as determined by the student's academic Guidance Committee, which must consist of at least three eligible faculty members. The advisor(s) and a majority of members of the Guidance Committee must be members of the appropriate graduate program. This committee is responsible for determining the student's academic curriculum and for administering the candidacy exams. Following successful completion of candidacy exams, the student registers for dissertation - BSCI 80199 for two semesters and, thereafter, for BSCI 80299 continually until complete.

**Prospectus:** Following completion of the candidacy exam, the doctoral student must successfully prepare, present and defend a formal prospectus of the research project before his or her dissertation committee.

**Dissertation and Final Defense:** The doctoral candidate must complete a dissertation. It is expected that the candidate will present the results of her or his research in a defense open to students and faculty, at which the dissertation will be presented and defended before the dissertation committee, with not more than one negative vote, in order to be recommended to the department and College of Arts and Sciences for degree conferral.

## Biological Sciences - Ecology and Evolutionary Biology - M.S.

**College of Arts and Sciences**  
Department of Biological Sciences  
256 Cunningham Hall  
Kent Campus  
330-672-3613  
kentbiology@kent.edu  
www.kent.edu/biology

## Description

The Master of Science degree in Biological Sciences—Ecology and Evolutionary Biology provides opportunities to study in areas such as animal behavior, entomology, limnology, microbial ecology, ornithology, systems ecology, systematic and evolutionary biology, environmental physiology, vertebrate ecology and population and community ecology. Although courses of study are tailored to students' interests and needs, the program for all students normally includes training in population, community, ecosystems and evolutionary ecology and statistical theory. Because of the interdisciplinary nature of ecology, students are encouraged to take courses in geology, mathematics, chemistry and other disciplines.

## Fully Offered At:

- Kent Campus

## Admission Requirements

- Bachelor's degree from an accredited college or university for unconditional admission
- Undergraduate coursework roughly equivalent to a Biology minor.
- Minimum 3.000 undergraduate GPA on a 4.000 point scale for unconditional admission
- Official transcript(s)
- GRE scores (general test)
- Goal statement
- Three letters of recommendation
- A list of up to five potential faculty advisors
- English language proficiency - all international students must provide proof of English language proficiency (unless they meet specific exceptions) by earning one of the following:
  - Minimum 587 TOEFL PBT score (paper-based version)
  - Minimum 94 TOEFL IBT score (Internet-based version)
  - Minimum 82 MELAB score
  - Minimum 7.0 IELTS score
  - Minimum 65 PTE score
  - Minimum 120 Duolingo English Test score

Before admission can be completed, a prospective student must be accepted by a faculty member in the ecology program who will serve as the advisor. For more information about graduate admissions, please visit the Graduate Studies admission website. For more information on international admission, visit the Office of Global Education's admission website.

## Program Learning Outcomes

Graduates of this program will be able to:

1. Understand advanced biological concepts beyond the scope of the typical undergraduate degree, and increase the depth of their knowledge through coursework and hands-on experiences.
2. Apply scientific principles and appreciate work outside of their particular field.
3. Effectively communicate about science with colleagues as well as those outside of the student's area of expertise.
4. Develop the necessary laboratory skills that will allow testing of hypotheses.

## Program Requirements

### Major Requirements

Code	Title	Credit Hours
<b>Major Requirements</b>		
BSCI 60103	<sup>1</sup>	3
BSCI 60184	RESPONSIBLE CONDUCT IN RESEARCH AND TEACHING-BIOLOGICAL SCIENCES <sup>2</sup>	2
BSCI 60199	THESIS I <sup>3</sup>	6
BSCI 60391	SEMINAR IN ECOLOGY (repeated each semester)	4-6
Additional Electives (as appropriate)		9-11
Student Seminar Presentation <sup>4</sup>		
Major Electives, choose from the following:		6
BSCI 50370	ECOLOGICAL AND EVOLUTIONARY GENETICS	



BSCI 50371	EVOLUTIONARY BIOLOGY
BSCI 50372	COMMUNITIES AND ECOSYSTEMS
BSCI 50373	POPULATION AND COMMUNITY ECOLOGY

Minimum Total Credit Hours: 32

- <sup>1</sup> Students may substitute a different graduate-level statistics course for BSCI 60103 if deemed appropriate by the students' advisor/guidance committee.
- <sup>2</sup> Students are required to take BSCI 60184 their first semester (or the following fall semester for those starting their studies in the spring semester).
- <sup>3</sup> After completing 6 credit hours of BSCI 60199, students must register continually for BSCI 60299 until the degree is earned. Students begin research by successfully preparing, presenting and defending a formal prospectus for their research project to their committee. For the thesis and final defense, it is expected that students will present the results of their study in a defense open to students and faculty. The thesis must be presented and defended before the Guidance Committee with not more than one negative vote in order to be recommended to the Department of Biological Sciences and the College of Arts and Sciences for degree conferral.
- <sup>4</sup> Students are required to present at least one departmental seminar about their research.

## Graduation Requirement

Students must complete a minimum 14 credit hours of graded (A-F) courses toward their degree.

## Biological Sciences - Ecology and Evolutionary Biology - Ph.D.

College of Arts and Sciences  
 Department of Biological Sciences  
 256 Cunningham Hall  
 Kent Campus  
 330-672-3613  
 kentbiology@kent.edu  
 www.kent.edu/biology

## Description

The Ph.D. degree in Biological Sciences—Ecology and Evolutionary Biology provides opportunities to study in areas such as animal behavior, entomology, limnology, microbial ecology, ornithology, systems ecology, systematic and evolutionary biology, environmental physiology, vertebrate ecology and population and community ecology. Although courses of study are tailored to students' interests and needs, the program for all students normally includes training in population, community, ecosystems and evolutionary ecology and statistical theory. Because of the interdisciplinary nature of ecology, students are encouraged to take courses in geology, mathematics, chemistry and other disciplines.

## Fully Offered At:

- Kent Campus

## Admission Requirements

- Bachelor's degree or higher from an accredited college or university for unconditional admission
- Strong background in biology and related subjects such as chemistry and mathematics<sup>1</sup>
- Minimum 3.000 GPA on a 4.000 point scale for unconditional admission
- Official transcript(s)
- GRE scores
- Goal statement
- Three letters of recommendation
- A list of up five potential faculty advisors
- English language proficiency - all international students must provide proof of English language proficiency (unless they meet specific exceptions) by earning one of the following:
  - Minimum 587 TOEFL PBT score (paper-based version)
  - Minimum 94 TOEFL IBT score (Internet-based version)
  - Minimum 82 MELAB score
  - Minimum 7.0 IELTS score
  - Minimum 65 PTE score
  - Minimum 120 Duolingo English Test score

Before admission can be completed, a prospective student must be accepted by a program faculty member, who will serve as the advisor. For more information about graduate admissions, please visit the Graduate Studies admission website. For more information on international admission, visit the Office of Global Education's admission website.

- <sup>1</sup> Student deficiencies in these areas at the time of admission shall be rectified during the first year of graduate study.

## Program Learning Outcomes

Graduates of this program will be able to:

1. Understand advanced biological concepts beyond the scope of the typical undergraduate degree, and increase the depth of their knowledge through coursework and hands-on experiences.
2. Apply scientific principles and appreciate work outside of their particular field.
3. Effectively communicate about science with colleagues as well as those outside of the student's area of expertise.
4. Develop the necessary laboratory skills that will allow testing of hypotheses.

## Program Requirements

### Major Requirements

Code	Title	Credit Hours
<b>Major Requirements</b>		
BSCI 70184	RESPONSIBLE CONDUCT IN RESEARCH AND TEACHING-BIOLOGICAL SCIENCES <sup>1</sup>	2
BSCI 70370	ECOLOGICAL AND EVOLUTIONARY GENETICS	2
BSCI 70371	EVOLUTIONARY BIOLOGY	2
BSCI 70372	COMMUNITIES AND ECOSYSTEMS	2
BSCI 70373	POPULATION AND COMMUNITY ECOLOGY	2

BSCI 70391	SEMINAR IN ECOLOGY (repeated each semester until candidacy)	3-6
BSCI 80199	DISSERTATION I <sup>2</sup>	30
Additional Electives		43-47
Student Seminar Presentation <sup>3</sup>		
<b>Minimum Total Credit Hours for Post-Baccalaureate Students</b>		<b>90</b>
<b>Minimum Total Credit Hours for Post-Master's Students</b>		<b>60</b>

- <sup>1</sup> Students are required to take BSCI 70184 their first semester (or the following fall semester for those starting their studies in the spring semester).
- <sup>2</sup> Each doctoral candidate, upon admission to candidacy, must register for BSCI 80199 for a total of 30 credit hours. It is expected that a doctoral candidate will continuously register for Dissertation I, and thereafter BSCI 80299, each semester, until all requirements for the degree have been met. It is expected that candidates will present the results of their research in a defense open to students and faculty, at which the dissertation will be presented and defended before the dissertation committee, with not more than one negative vote, in order to be recommended to the Department of Biological Sciences and the College of Arts and Sciences for degree conferral.
- <sup>3</sup> Students are required to present at least one departmental seminar about their work.

## Graduation Requirement

Students must complete a minimum 20 credit hours of graded (A-F) courses toward their degree.

## Candidacy for the Degree

After completing the required coursework, students complete the doctoral program by being admitted to candidacy, by proposing a research project to the faculty, and by completing and defending that research with a written dissertation before a faculty committee.

**Candidacy Exams:** The student is admitted to doctoral candidacy following successful completion of both written and oral candidacy examinations. These exams are based on prior coursework and coursework taken in this graduate program as determined by the student's academic Guidance Committee, which must consist of at least three eligible faculty members. The advisor(s) and a majority of members of the Guidance Committee must be members of the appropriate graduate program. This committee is responsible for determining the student's academic curriculum and for administering the candidacy exams. Following successful completion of candidacy exams, the student registers for dissertation - BSCI 80199 for two semesters and, thereafter, for BSCI 80299 continually until complete.

**Prospectus:** Following completion of the candidacy exam, the doctoral student must successfully prepare, present and defend a formal prospectus of the research project before his or her dissertation committee.

**Dissertation and Final Defense:** The doctoral candidate must complete a dissertation. It is expected that the candidate will present the results of her or his research in a defense open to students and faculty, at which the dissertation will be presented and defended before the dissertation committee, with not more than one negative vote, in order to be recommended to the department and College of Arts and Sciences for degree conferral.

# Biological Sciences - Integrative Physiology and Neurobiology - M.S.

## College of Arts and Sciences

Department of Biological Sciences  
256 Cunningham Hall  
Kent Campus  
330-672-3613  
kentbiology@kent.edu  
www.kent.edu/biology

## Description

The Master of Science degree in Biological Sciences—Integrative Physiology and Neurobiology is the study of a broad range of topics, including endocrinology, neuroscience, immunology, reproductive biology and other regulatory systems. Students have access to resources for physiological research, including a vivarium, tissue culture facility, confocal microscope/visualization facility, laser capture microscope, genomics and proteomics facilities.

## Fully Offered At:

- Kent Campus

## Admission Requirements

- Bachelor's degree from an accredited college or university for unconditional admission
- Undergraduate coursework roughly equivalent to a Biology minor
- Minimum 3.000 GPA on a 4.000 point scale for unconditional admission
- Official transcript(s)
- GRE scores (general test)
- Goal statement
- Three letters of recommendation
- A list of up to five potential faculty advisors
- English language proficiency - all international students must provide proof of English language proficiency (unless they meet specific exceptions) by earning one of the following:
  - Minimum 587 TOEFL PBT score (paper-based version)
  - Minimum 94 TOEFL IBT score (Internet-based version)
  - Minimum 82 MELAB score
  - Minimum 7.0 IELTS score
  - Minimum 65 PTE score
  - Minimum 120 Duolingo English Test score

Before admission can be completed, a prospective student must be accepted by a faculty member in the program who will act as adviser. For more information about graduate admissions, please visit the Graduate Studies admission website. For more information on international admission, visit the Office of Global Education's admission website.

## Program Learning Outcomes

Graduates of this program will be able to:

1. Understand advanced biological concepts beyond the scope of the typical undergraduate degree and to increase the depth of their knowledge through coursework and hands-on experiences.

2. Apply scientific principles and appreciate work outside of their particular field.
3. Effectively communicate about science with colleagues as well as those outside of the student's area of expertise.
4. Develop the necessary laboratory skills that will allow testing of hypotheses.

256 Cunningham Hall  
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## Program Requirements

### Major Requirements

Code	Title	Credit Hours
<b>Major Requirements</b>		
BSCI 60103	<sup>1</sup>	3
BSCI 60184	RESPONSIBLE CONDUCT IN RESEARCH AND TEACHING-BIOLOGICAL SCIENCES <sup>2</sup>	2
BSCI 60199	THESIS I <sup>3</sup>	6
BSCI 60491	SEMINAR IN PHYSIOLOGY (repeated each semester)	4-6
Major Electives <sup>4</sup>		15-17
Student Seminar Presentation <sup>5</sup>		
Minimum Total Credit Hours:		32

- <sup>1</sup> Students may substitute a different graduate-level statistics course for BSCI 60103 if deemed appropriate by the students' advisor/guidance committee.
- <sup>2</sup> Students are required to take BSCI 60184 their first semester (or the following fall semester for those starting their studies in the spring semester).
- <sup>3</sup> After completing 6 credit hours of BSCI 60199, students must register continually for BSCI 60299 until the degree is earned. Students begin research by successfully preparing, presenting and defending a formal prospectus for their research project to their committee. For the thesis and final defense, it is expected that students will present the results of their study in a defense open to students and faculty. The thesis must be presented and defended before the Guidance Committee with not more than one negative vote in order to be recommended to the Department of Biological Sciences and the College of Arts and Sciences for degree conferral.
- <sup>4</sup> Students are to select courses in consultation with their academic faculty advisor. It is recommended that students enroll in BSCI 50142 and BSCI 50195 for selected current topics. Additional coursework should provide the necessary skills and/or knowledge base to aid in the completion of the student's research project and be beneficial for their professional development.
- <sup>5</sup> Students are required to present at least one departmental seminar about their research.

### Graduation Requirement

Students must complete a minimum 14 credit hours of graded (A-F) courses toward their degree.

## Biological Sciences - Integrative Physiology and Neurobiology - Ph.D.

College of Arts and Sciences  
 Department of Biological Sciences

## Description

The Ph.D. degree in Biological Sciences—Integrative Physiology and Neurobiology is the study of a broad range of topics, including endocrinology, neuroscience, immunology, reproductive biology and other regulatory systems. Students have access to resources for physiological research, including a vivarium, tissue culture facility, confocal microscope/visualization facility, laser capture microscope, genomics and proteomics facilities.

### Fully Offered At:

- Kent Campus

## Admission Requirements

- Bachelor's degree or higher from an accredited college or university in the natural sciences for unconditional admission
- Strong background in biology and related subjects such as chemistry and mathematics<sup>1</sup>
- Minimum 3.000 GPA on a 4.000 point scale for unconditional admission
- Official transcript(s)
- GRE scores
- Goal statement
- Three letters of recommendation
- A list of up to five potential faculty advisors
- English language proficiency - all international students must provide proof of English language proficiency (unless they meet specific exceptions) by earning one of the following:
  - Minimum 587 TOEFL PBT score (paper-based version)
  - Minimum 94 TOEFL IBT score (Internet-based version)
  - Minimum 82 MELAB score
  - Minimum 7.0 IELTS score
  - Minimum 65 PTE score
  - Minimum 120 Duolingo English Test score

Before admission can be completed, a prospective student must be accepted by a faculty member in the program who will act as adviser. For more information about graduate admissions, please visit the Graduate Studies admission website. For more information on international admission, visit the Office of Global Education's admission website.

- <sup>1</sup> Student deficiencies in these areas at the time of admission shall be rectified during the first year of graduate study.

## Program Learning Outcomes

Graduates of this program will be able to:

1. Understand advanced biological concepts beyond the scope of the typical undergraduate degree and to increase the depth of their knowledge through coursework and hands-on experiences.

- Apply scientific principles and appreciate work outside of their particular field.
- Effectively communicate about science with colleagues as well as those outside of the student's area of expertise.
- Develop the necessary laboratory skills that will allow testing of hypotheses.

## Program Requirements

### Major Requirements

Code	Title	Credit Hours
<b>Major Requirements</b>		
BSCI 70184	RESPONSIBLE CONDUCT IN RESEARCH AND TEACHING-BIOLOGICAL SCIENCES <sup>1</sup>	2
BSCI 70491	SEMINAR IN PHYSIOLOGY (repeated each semester until candidacy)	3-6
BSCI 80199	DISSERTATION I <sup>2</sup>	30
Additional Electives <sup>3</sup>		52-55
Student Seminar Presentation <sup>4</sup>		
<b>Minimum Total Credit Hours for Post-Baccalaureate Students</b>		<b>90</b>
<b>Minimum Total Credit Hours for Post-Master's Students</b>		<b>60</b>

<sup>1</sup> Students are required to take BSCI 70184 their first semester (or the following fall semester for those starting their studies in the spring semester).

<sup>2</sup> Doctoral candidates, upon admission to candidacy, must register for BSCI 80199 for a total of 30 hours. It is expected that doctoral candidates will continuously register for BSCI 80199, and thereafter BSCI 80299, each semester, until all requirements for the degree have been met. It is expected that candidates will present the results of their research in a defense open to students and faculty, at which the dissertation will be presented and defended before the dissertation committee, with not more than one negative vote, in order to be recommended to the Department of Biological Sciences and the College of Arts and Sciences for degree conferral.

<sup>3</sup> Students are to select courses in consultation with their academic faculty advisor. It is recommended that students enroll in BSCI 70142 and BSCI 70195 for selected current topics. Additional coursework should provide the necessary skills and/or knowledge base to aid in the completion of the student's research project and be beneficial for their professional development.

<sup>4</sup> Students are required to present at least one departmental seminar about their work.

### Graduation Requirement

Students must complete a minimum 20 credit hours of graded (A-F) courses toward their degree.

### Candidacy for the Degree

After completing the required coursework, students complete the doctoral program by being admitted to candidacy, by proposing a research project to the faculty, and by completing and defending that research with a written dissertation before a faculty committee.

**Candidacy Exams:** The student is admitted to doctoral candidacy following successful completion of both written and oral candidacy examinations. These exams are based on prior coursework and coursework taken in this graduate program as determined by the student's academic Guidance Committee, which must consist of at least

three eligible faculty members. The advisor(s) and a majority of members of the Guidance Committee must be members of the appropriate graduate program. This committee is responsible for determining the student's academic curriculum and for administering the candidacy exams. Following successful completion of candidacy exams, the student registers for dissertation - BSCI 80199 for two semesters and, thereafter, for BSCI 80299 continually until complete.

**Prospectus:** Following completion of the candidacy exam, the doctoral student must successfully prepare, present and defend a formal prospectus of the research project before his or her dissertation committee.

**Dissertation and Final Defense:** The doctoral candidate must complete a dissertation. It is expected that the candidate will present the results of her or his research in a defense open to students and faculty, at which the dissertation will be presented and defended before the dissertation committee, with not more than one negative vote, in order to be recommended to the department and College of Arts and Sciences for degree conferral.

## Biological Sciences - Minor

### College of Arts and Sciences

Department of Biological Sciences  
256 Cunningham Hall  
Kent Campus  
339-672-3613  
kentbiology@kent.edu  
www.kent.edu/biology

### Description

The Biological Sciences minor provides a basic biological background to complement other areas of study. The minor is especially suited for students wishing to pursue careers in non-science fields where biological knowledge is advantageous.

### Fully Offered At:

- Kent Campus
- Stark Campus

### Admission Requirements

Admission to a minor is open to students declared in a bachelor's degree, the A.A.B. or A.A.S. degree or the A.T.S. degree (not Individualized Program major). Students declared only in the A.A. or A.S. degree or the A.T.S. degree in Individualized Program may not declare a minor. Students may not pursue a minor and a major in the same discipline.

### Minor Requirements

Code	Title	Credit Hours
<b>Prerequisite Requirements</b>		
CHEM 10060	GENERAL CHEMISTRY I (KBS)	
CHEM 10061	GENERAL CHEMISTRY II (KBS)	
CHEM 10062	GENERAL CHEMISTRY I LABORATORY (KBS) (KLAB)	

CHEM 10063	GENERAL CHEMISTRY II LABORATORY (KBS) (KLAB)	
MATH 11010	ALGEBRA FOR CALCULUS (KMCR)	
MATH 11022	TRIGONOMETRY (KMCR)	
<b>Minor Requirements</b>		
BSCI 10110	BIOLOGICAL DIVERSITY (KBS) (KLAB)	4
BSCI 10120	BIOLOGICAL FOUNDATIONS (KBS) (KLAB)	4
BSCI 30156	ELEMENTS OF GENETICS	3
BSCI 40163	EVOLUTION	3
Biology (BSCI) Electives <sup>1</sup>		8
Minimum Total Credit Hours:		22

<sup>1</sup> Students should consult with a biology advisor to determine the most appropriate elective courses given their disciplinary interests and career aspirations.

## Graduation Requirements

Minimum Minor GPA	Minimum Overall GPA
2.000	2.000

- Students must complete at least two upper-division (30000 or 40000 level) courses in the minor at Kent State on a graded basis (A-F).
- Minimum 6 credit hours in the minor must be upper-division coursework (30000 and 40000 level).
- Minimum 6 credit hours in the minor must be outside of the course requirements for any major or other minor the student is pursuing.
- Minimum 50 percent of the total credit hours for the minor must be taken at Kent State (in residence).

The following Biological Sciences (BSCI) courses may NOT be used in the elective category for majors or minors in the Department of Biological Sciences:

Code	Title	Credit Hours
BSCI 10001	HUMAN BIOLOGY (KBS)	3
BSCI 10002	LIFE ON PLANET EARTH (KBS)	3
BSCI 10003	LABORATORY EXPERIENCE IN BIOLOGY (KBS) (KLAB)	1
BSCI 10005	ANATOMY FOR VETERINARY TECHNICIANS	5
BSCI 11010	FOUNDATIONAL ANATOMY AND PHYSIOLOGY I (KBS) (KLAB)	3
BSCI 11020	FOUNDATIONAL ANATOMY AND PHYSIOLOGY II (KBS) (KLAB)	3
BSCI 16001	HORTICULTURAL BOTANY	3
BSCI 20019	BIOLOGICAL STRUCTURE AND FUNCTION	4
BSCI 20021	BASIC MICROBIOLOGY	3
BSCI 20022	BASIC MICROBIOLOGY LABORATORY	1
BSCI 21010	ANATOMY AND PHYSIOLOGY I (KBS) (KLAB)	4
BSCI 21020	ANATOMY AND PHYSIOLOGY II	4
BSCI 26002	ECOLOGICAL PRINCIPLES OF PEST MANAGEMENT	3
BSCI 26003	PLANT IDENTIFICATION AND SELECTION I	3
BSCI 26004	PLANT IDENTIFICATION AND SELECTION II	3
BSCI 30050	HUMAN GENETICS	3
BSCI 40020	BIOLOGY OF AGING	3

## Biology - B.A.

### College of Arts and Sciences

Department of Biological Sciences  
256 Cunningham Hall  
Kent Campus  
330-672-3613  
kentbiology@kent.edu  
www.kent.edu/biology

## Description

The Bachelor of Arts degree in Biology is for students who are interested in the biological sciences, but who also want a degree with a strong liberal arts component. This program provides a basic background in biology while offering the opportunity to take a wide range of classes in other disciplines.

Biologists work in a variety of settings, and career opportunities are available in government agencies, privately owned companies and non-profit groups. Graduates may also choose to further their education beyond a bachelor's degree by attending graduate or professional school. The Department of Biological Sciences has several mechanisms to help students prepare for their future careers.

### Fully Offered At:

- Kent Campus
- Stark Campus

## Admission Requirements

The university affirmatively strives to provide educational opportunities and access to students with varied backgrounds, those with special talents and adult students who graduated from high school three or more years ago.

**Freshman Students on the Kent Campus:** The freshman admission policy on the Kent Campus is selective. Admission decisions are based upon the following: cumulative grade point average, ACT and/or SAT scores, strength of high school college preparatory curriculum and grade trends. The Admissions Office at the Kent Campus may defer the admission of students who do not meet admissions criteria but who demonstrate areas of promise for successful college study. Deferred applicants may begin their college coursework at one of seven regional campuses of Kent State University. For more information on admissions, including additional requirements for some academic programs, visit the admissions website for new freshmen.

**Freshman Students on the Regional Campuses:** Kent State campuses at Ashtabula, East Liverpool, Geauga, Salem, Stark, Trumbull and Tuscarawas, as well as the Regional Academic Center in Twinsburg, have open enrollment admission for students who hold a high school diploma, GED or equivalent.

### English Language Proficiency Requirements for International Students:

All international students must provide proof of English language proficiency (unless they meet specific exceptions) by earning a minimum 525 TOEFL score (71 on the Internet-based version), minimum 75 MELAB score, minimum 6.0 IELTS score or minimum 48 PTE score, or by completing the ESL level 112 Intensive Program. For more information on



international admission, visit the Office of Global Education's admission website.

**Transfer, Transitioning and Former Students:** For more information about admission criteria for transfer, transitioning and former students, please visit the admissions website.

## Program Learning Outcomes

Graduates of this program will be able to:

1. Understand the fundamental biological principles.
2. Acquire the fundamental skills necessary for laboratory and field investigations.
3. Conduct proper experimental design, analyze biological data and communicate research results.
4. Know and appreciate the role that biology plays in societal issues, such as those related to the environment, biodiversity, ethics, human health and disease.

## University Requirements

All students in a bachelor's degree program at Kent State University must complete the following university requirements for graduation.

**NOTE:** University requirements may be fulfilled in this program by specific course requirements. Please see Program Requirements for details.

Destination Kent State: First Year Experience	1
Course is not required for students with 25 transfer credits, excluding College Credit Plus, or age 21+ at time of admission.	
Diversity Domestic/Global (DIVD/DIVG)	2 courses
Students must successfully complete one domestic and one global course, of which one must be from the Kent Core.	
Experiential Learning Requirement (ELR)	varies
Students must successfully complete one course or approved experience.	
Kent Core (see table below)	36-37
Writing-Intensive Course (WIC)	1 course
Students must earn a minimum C grade in the course.	
Upper-Division Requirement	39 (or 42)
Students must successfully complete 39 upper-division (numbered 30000 to 49999) credit hours to graduate. Students in a B.A. and/or B.S. degree in the College of Arts and Sciences must complete 42 upper-division credit hours.	
Total Credit Hour Requirement	120
Some bachelor's degrees require students to complete more than 120 credit hours.	

## Kent Core Requirements

Kent Core Composition (KCOMP)	6
Kent Core Mathematics and Critical Reasoning (KMCR)	3
Kent Core Humanities and Fine Arts (KHUM/KFA) (min one course each)	9
Kent Core Social Sciences (KSS) (must be from two disciplines)	6
Kent Core Basic Sciences (KBS/KLAB) (must include one laboratory)	6-7
Kent Core Additional (KADL)	6
<b>Total Credit Hours:</b>	<b>36-37</b>

## Program Requirements

### Major Requirements

Code	Title	Credit Hours
<b>Major Requirements (courses count in major GPA)</b>		
BSCI 10110	BIOLOGICAL DIVERSITY (KBS) (KLAB)	4
BSCI 10120	BIOLOGICAL FOUNDATIONS (KBS) (KLAB)	4
BSCI 30156	ELEMENTS OF GENETICS	3
BSCI 40163	EVOLUTION	3
BSCI 40600	WRITING IN THE BIOLOGICAL SCIENCES (WIC) <sup>1</sup>	1
CHEM 10060	GENERAL CHEMISTRY I (KBS)	4
CHEM 10061	GENERAL CHEMISTRY II (KBS)	4
CHEM 10062	GENERAL CHEMISTRY I LABORATORY (KBS) (KLAB)	1
CHEM 10063	GENERAL CHEMISTRY II LABORATORY (KBS) (KLAB)	1
MATH 11010	ALGEBRA FOR CALCULUS (KMCR)	3
MATH 11022	TRIGONOMETRY (KMCR)	3
Biology (BSCI) Electives <sup>2</sup>		5
Biology (BSCI) Upper-Division Electives (30000 or 40000 level) <sup>2</sup>		11
<b>Additional Requirements (courses do not count in major GPA)</b>		
UC 10097	DESTINATION KENT STATE: FIRST YEAR EXPERIENCE	1
Foreign Language (see Foreign Language College Requirement below)		14-16
Kent Core Composition		6
Kent Core Humanities and Fine Arts (minimum one course from each)		9
Kent Core Social Sciences (must be from two disciplines)		6
College General Requirements (must be from Kent Core Social Sciences) <sup>3</sup>		3
General Electives (total credit hours depends on earning 120 credit hours, including 42 upper-division credit hours)		34
Minimum Total Credit Hours:		120

<sup>1</sup> A minimum C grade must be earned to fulfill the writing-intensive requirement.

<sup>2</sup> Students should consult with a biology advisor to determine the most appropriate courses given their disciplinary interests and career aspirations. Maximum 6 credit hours total of any combination of the following courses may be used toward fulfilling electives: BSCI 40199; BSCI 40191; BSCI 40192; BSCI 40193; BSCI 40196.

<sup>3</sup> Students must select a Kent Core Social Sciences course that is from one of the following College of Arts and Sciences disciplines: Anthropology (ANTH), Geography (GEOG), Criminology and Justice Studies (CRIM), Peace and Conflict Studies (PACS), Political Science (POL), Psychology (PSYC) and Sociology (SOC).

## Graduation Requirements

Minimum Major GPA	Minimum Overall GPA
2.000	2.000

## Foreign Language College Requirement

Students pursuing the Bachelor of Arts degree in the College of Arts and Sciences must complete 14-16 credit hours of foreign language.<sup>1</sup> To complete the requirement, students have the equivalent of Elementary I and II in any language, plus one of the following options:

- Intermediate I and II of the same language<sup>2</sup>
- Elementary I and II of a second language
- Any combination of two courses from the following list:

- Intermediate I of the same language
- MCLS 10001 INTRODUCTION TO STRUCTURAL CONCEPTS FOR LANGUAGE STUDENTS
- MCLS 20091 VARIABLE CONTENT SEMINAR IN GLOBAL LITERACY: CASE STUDIES
- MCLS 21417 MULTICULTURALISM IN TODAY'S GERMANY (DIVG)
- MCLS 28404 THE LATIN AMERICAN EXPERIENCE (DIVG)

<sup>1</sup> All students with prior foreign language experience should take the foreign language placement test to determine the appropriate level at which to start. Some students may begin beyond the Elementary I level and will complete the requirement with fewer credit hours and fewer courses. This may be accomplished by (1) passing a course beyond Elementary I through Intermediate II level; (2) receiving credit through Credit by Exam (CBE), Advanced Placement (AP), International Baccalaureate (IB) or College Level Examination Program (CLEP); or (3) being designated a 'native speaker' of a non-English language (consult with the College of Arts and Sciences Advising Office for additional information). When students complete the requirement with fewer than 14 credit hours and four courses, they will complete remaining credit hours with general electives.

<sup>2</sup> Certain majors, concentrations and minors may require specific languages, limit the languages from which a student may choose or require coursework through Intermediate II. Students who plan to pursue graduate study may need particular language coursework.

The following Biological Sciences (BSCI) courses may NOT be used in the elective category for majors or minors in the Department of Biological Sciences:

Code	Title	Credit Hours
BSCI 10001	HUMAN BIOLOGY (KBS)	3
BSCI 10002	LIFE ON PLANET EARTH (KBS)	3
BSCI 10003	LABORATORY EXPERIENCE IN BIOLOGY (KBS) (KLAB)	1
BSCI 10005	ANATOMY FOR VETERINARY TECHNICIANS	5
BSCI 11010	FOUNDATIONAL ANATOMY AND PHYSIOLOGY I (KBS) (KLAB)	3
BSCI 11020	FOUNDATIONAL ANATOMY AND PHYSIOLOGY II (KBS) (KLAB)	3
BSCI 16001	HORTICULTURAL BOTANY	3
BSCI 20019	BIOLOGICAL STRUCTURE AND FUNCTION	4
BSCI 20021	BASIC MICROBIOLOGY	3
BSCI 20022	BASIC MICROBIOLOGY LABORATORY	1
BSCI 21010	ANATOMY AND PHYSIOLOGY I (KBS) (KLAB)	4
BSCI 21020	ANATOMY AND PHYSIOLOGY II	4
BSCI 26002	ECOLOGICAL PRINCIPLES OF PEST MANAGEMENT	3
BSCI 26003	PLANT IDENTIFICATION AND SELECTION I	3
BSCI 26004	PLANT IDENTIFICATION AND SELECTION II	3
BSCI 30050	HUMAN GENETICS	3
BSCI 40020	BIOLOGY OF AGING	3

## Roadmap

This roadmap is a recommended semester-by-semester plan of study for this major. However, courses designated as critical (!) must be completed in the semester listed to ensure a timely graduation.

Semester One			Credits
Note: Placement in MATH courses may require additional coursework before the spring semester in first year of enrollment			
!	BSCI 10110	BIOLOGICAL DIVERSITY (KBS) (KLAB)	4
	MATH 11010	ALGEBRA FOR CALCULUS (KMCR)	3
	UC 10097	DESTINATION KENT STATE: FIRST YEAR EXPERIENCE	1
	Kent Core Requirement		3
	Kent Core Requirement		3
	Credit Hours		14
Semester Two			
!	BSCI 10120	BIOLOGICAL FOUNDATIONS (KBS) (KLAB)	4
	Kent Core Requirement		3
	Kent Core Requirement		3
	Kent Core Requirement		3
	Kent Core Requirement		3
	Credit Hours		16
Semester Three			
!	CHEM 10060	GENERAL CHEMISTRY I (KBS)	4
!	CHEM 10062	GENERAL CHEMISTRY I LABORATORY (KBS) (KLAB)	1
	MATH 11022	TRIGONOMETRY (KMCR)	3
	Kent Core Requirement		3
	General Elective		3
	Credit Hours		14
Semester Four			
!	BSCI 30156	ELEMENTS OF GENETICS	3
!	CHEM 10061	GENERAL CHEMISTRY II (KBS)	4
!	CHEM 10063	GENERAL CHEMISTRY II LABORATORY (KBS) (KLAB)	1
	College General Requirement		3
	General Elective		4
	Credit Hours		15
Semester Five			
	Biology Electives		7
	Foreign Language		4
	General Elective		3
	Credit Hours		14
Semester Six			
	Biology Elective		3
	Foreign Language		4
	General Electives		9
	Credit Hours		16
Semester Seven			
	BSCI 40163	EVOLUTION	3
	BSCI 40600	WRITING IN THE BIOLOGICAL SCIENCES (WIC)	1
	Foreign Language		3
	Biology Electives		3
	General Electives		6
	Credit Hours		16
Semester Eight			
	Biology Elective		3

Foreign Language	3
General Electives	9
Credit Hours	15
Minimum Total Credit Hours:	120

## Biology - B.S.

### College of Arts and Sciences

Department of Biological Sciences  
256 Cunningham Hall  
Kent Campus  
330-672-3613  
kentbiology@kent.edu  
www.kent.edu/biology

## Description

The Bachelor of Science degree in Biology is for students who are interested in pursuing an in-depth specialization as a biologist or wish to pursue a medical or health care career.

The Biology major comprises the following concentrations:

- The **Molecular and Cellular Biology** concentration is the study of biological processes within and between individual cells, allowing for a better understanding of biological principles in normal and diseased states. The focus of this program includes concepts related to the genetic basis of life, regulation of gene expression and cellular functions.
- The **Organismal Biology** concentration allows students to examine organisms in their natural environment and address fundamental principles of survival and adaptation in discrete micro-environments and entire ecosystems. While basic concepts of biological and chemical functions are covered, the focus of this concentration is comprehensive aspects of the whole organism.
- The **Pre-Medicine/Pre-Podiatry/Pre-Dentistry** concentration prepares students for careers in medicine and health care. The curriculum provides the courses necessary for admission to advanced degree programs in healthcare and biomedical science professions.

### Fully Offered At:

- Kent Campus

## Admission Requirements

The university affirmatively strives to provide educational opportunities and access to students with varied backgrounds, those with special talents and adult students who graduated from high school three or more years ago.

**Freshman Students on the Kent Campus:** The freshman admission policy on the Kent Campus is selective. Admission decisions are based upon the following: cumulative grade point average, ACT and/or SAT scores, strength of high school college preparatory curriculum and grade trends. The Admissions Office at the Kent Campus may defer the admission of students who do not meet admissions criteria but who demonstrate areas of promise for successful college study. Deferred applicants may begin their college coursework at one of seven regional campuses of Kent State University. For more information on admissions,

including additional requirements for some academic programs, visit the admissions website for new freshmen.

**Freshman Students on the Regional Campuses:** Kent State campuses at Ashtabula, East Liverpool, Geauga, Salem, Stark, Trumbull and Tuscarawas, as well as the Regional Academic Center in Twinsburg, have open enrollment admission for students who hold a high school diploma, GED or equivalent.

### English Language Proficiency Requirements for International Students:

All international students must provide proof of English language proficiency (unless they meet specific exceptions) by earning a minimum 525 TOEFL score (71 on the Internet-based version), minimum 75 MELAB score, minimum 6.0 IELTS score or minimum 48 PTE score, or by completing the ESL level 112 Intensive Program. For more information on international admission, visit the Office of Global Education's admission website.

**Transfer, Transitioning and Former Students:** For more information about admission criteria for transfer, transitioning and former students, please visit the admissions website.

## Program Learning Outcomes

Graduates of this program will be able to:

- Understand the fundamental biological principles.
- Acquire the fundamental skills necessary for laboratory and field investigations.
- Conduct proper experimental design, analyze biological data and communicate research results.
- Know and appreciate the role that biology plays in societal issues, such as those related to the environment, biodiversity, ethics, human health and disease.

## University Requirements

All students in a bachelor's degree program at Kent State University must complete the following university requirements for graduation.

**NOTE:** University requirements may be fulfilled in this program by specific course requirements. Please see Program Requirements for details.

Destination Kent State: First Year Experience	1
Course is not required for students with 25 transfer credits, excluding College Credit Plus, or age 21+ at time of admission.	
Diversity Domestic/Global (DIVD/DIVG)	2 courses
Students must successfully complete one domestic and one global course, of which one must be from the Kent Core.	
Experiential Learning Requirement (ELR)	varies
Students must successfully complete one course or approved experience.	
Kent Core (see table below)	36-37
Writing-Intensive Course (WIC)	1 course
Students must earn a minimum C grade in the course.	
Upper-Division Requirement	39 (or 42)
Students must successfully complete 39 upper-division (numbered 30000 to 49999) credit hours to graduate. Students in a B.A. and/or B.S. degree in the College of Arts and Sciences must complete 42 upper-division credit hours.	
Total Credit Hour Requirement	120

Some bachelor's degrees require students to complete more than 120 credit hours.

## Kent Core Requirements

Kent Core Composition (KCOMP)	6
Kent Core Mathematics and Critical Reasoning (KMCR)	3
Kent Core Humanities and Fine Arts (KHUM/KFA) (min one course each)	9
Kent Core Social Sciences (KSS) (must be from two disciplines)	6
Kent Core Basic Sciences (KBS/KLAB) (must include one laboratory)	6-7
Kent Core Additional (KADL)	6
<b>Total Credit Hours:</b>	<b>36-37</b>

## Program Requirements

### Major Requirements

Code	Title	Credit Hours
<b>Major Requirements (courses count in major GPA)</b>		
BSCI 10110	BIOLOGICAL DIVERSITY (KBS) (KLAB)	4
BSCI 10120	BIOLOGICAL FOUNDATIONS (KBS) (KLAB)	4
BSCI 30156	ELEMENTS OF GENETICS	3
BSCI 40163	EVOLUTION	3
BSCI 40600	WRITING IN THE BIOLOGICAL SCIENCES (WIC) <sup>1</sup>	1
CHEM 10060	GENERAL CHEMISTRY I (KBS)	4
CHEM 10061	GENERAL CHEMISTRY II (KBS)	4
CHEM 10062	GENERAL CHEMISTRY I LABORATORY (KBS) (KLAB)	1
CHEM 10063	GENERAL CHEMISTRY II LABORATORY (KBS) (KLAB)	1
CHEM 20481	BASIC ORGANIC CHEMISTRY I	3-4
or CHEM 30481	ORGANIC CHEMISTRY I	
MATH 12002	ANALYTIC GEOMETRY AND CALCULUS I (KMCR)	5
MATH 12003	ANALYTIC GEOMETRY AND CALCULUS II	3-5
or MATH 30011	BASIC PROBABILITY AND STATISTICS	
<b>Additional Requirements (courses do not count in major GPA)</b>		
UC 10097	DESTINATION KENT STATE: FIRST YEAR EXPERIENCE	1
Foreign Language (see Foreign Language College Requirement below)		8
Kent Core Composition		6
Kent Core Humanities and Fine Arts (minimum one course from each)		9
General Electives (total credit hours depends on earning 120 credit hours including 42 upper-division credit hours)		10
<b>Concentrations</b>		
Choose from the following:		50
Molecular and Cellular Biology		
Organismal Biology		
Pre-Medicine/Pre-Podiatry/Pre-Dentistry		
Minimum Total Credit Hours:		120

<sup>1</sup> A minimum C grade must be earned to fulfill the writing-intensive requirement.

## Molecular and Cellular Biology Concentration Requirements

Code	Title	Credit Hours
<b>Concentration Requirements (courses count in major GPA)</b>		
BSCI 30140	CELL BIOLOGY	4
BSCI 40158	MOLECULAR BIOLOGY	3
CHEM 20482	BASIC ORGANIC CHEMISTRY II <sup>1</sup>	1-3
or CHEM 30475	ORGANIC CHEMISTRY LABORATORY I (ELR)	
or CHEM 30482	ORGANIC CHEMISTRY II	
Biology, Chemistry, Physics Electives, choose from the following: <sup>2</sup>		31
Biology (BSCI) Electives <sup>2</sup>		
CHEM 20482	BASIC ORGANIC CHEMISTRY II <sup>1</sup>	
or CHEM 30482	ORGANIC CHEMISTRY II	
CHEM 30475	ORGANIC CHEMISTRY LABORATORY I (ELR)	
CHEM 30476	ORGANIC CHEMISTRY LABORATORY II	
PHY 13001 & PHY 13021	GENERAL COLLEGE PHYSICS I (KBS) and GENERAL COLLEGE PHYSICS LABORATORY I (KBS) (KLAB)	
or PHY 23101	GENERAL UNIVERSITY PHYSICS I (KBS) (KLAB)	
PHY 13002 & PHY 13022	GENERAL COLLEGE PHYSICS II (KBS) and GENERAL COLLEGE PHYSICS LABORATORY II (KBS) (KLAB)	
or PHY 23102	GENERAL UNIVERSITY PHYSICS II (KBS) (KLAB)	
<b>Additional Requirements (courses do not count in major GPA)</b>		
Kent Core Social Sciences (must be from two disciplines)		6
General Electives		5
Minimum Total Credit Hours:		50

<sup>1</sup> CHEM 20482 may be substituted with CHEM 30284 with faculty advisor approval.

<sup>2</sup> Students should select their electives in consultation with an advisor. To fulfill this elective list, students must select a minimum of one from the following courses: BSCI 30105, BSCI 40191, BSCI 40192, BSCI 40196, BSCI 40199. However, they may only select a maximum of 6 credit hours of any combination of these courses (with no more than 4 credit hours S/U graded). Enrollment in these course must be determined with a faculty advisor.

## Organismal Biology Concentration Requirements

Code	Title	Credit Hours
<b>Concentration Requirements (courses count in major GPA)</b>		
CHEM 20482	BASIC ORGANIC CHEMISTRY II <sup>1</sup>	1-3
or CHEM 30475	ORGANIC CHEMISTRY LABORATORY I (ELR)	
or CHEM 30482	ORGANIC CHEMISTRY II	
Organismal Core Electives, choose from the following:		7-8
BSCI 30171	GENERAL MICROBIOLOGY	
BSCI 30270	GENERAL PLANT BIOLOGY	
BSCI 30275	LOCAL FLORA (ELR)	
BSCI 30360	GENERAL ECOLOGY	
BSCI 30560	INVERTEBRATE ZOOLOGY	
BSCI 30580	ENTOMOLOGY	
BSCI 40272	PLANT ANATOMY	
BSCI 40430	ANIMAL PHYSIOLOGY	
BSCI 40556	VERTEBRATE ZOOLOGY	
Biology, Chemistry, Physics Electives, choose from the following: <sup>2</sup>		30
Biology (BSCI) Electives <sup>2</sup>		

CHEM 20482	BASIC ORGANIC CHEMISTRY II <sup>1</sup>
or CHEM 30482	ORGANIC CHEMISTRY II
CHEM 30475	ORGANIC CHEMISTRY LABORATORY I (ELR)
CHEM 30476	ORGANIC CHEMISTRY LABORATORY II
PHY 13001 & PHY 13021	GENERAL COLLEGE PHYSICS I (KBS) and GENERAL COLLEGE PHYSICS LABORATORY I (KBS) (KLAB)
or PHY 23101	GENERAL UNIVERSITY PHYSICS I (KBS) (KLAB)
PHY 13002 & PHY 13022	GENERAL COLLEGE PHYSICS II (KBS) and GENERAL COLLEGE PHYSICS LABORATORY II (KBS) (KLAB)
or PHY 23102	GENERAL UNIVERSITY PHYSICS II (KBS) (KLAB)

**Additional Requirements (courses do not count in major GPA)**

Kent Core Social Sciences (must be from two disciplines)	6
General Electives	6
Minimum Total Credit Hours:	50

- <sup>1</sup> CHEM 20482 may be substituted with CHEM 30284 with faculty advisor approval.
- <sup>2</sup> Students should select their electives in consultation with an advisor. To fulfill this elective list, students must select a minimum of one from the following courses: BSCI 30105, BSCI 40191, BSCI 40192, BSCI 40196, BSCI 40199. However, they may only select a maximum of 6 credit hours of any combination of these courses (with no more than 4 credit hours S/U graded). Enrollment in these course must be determined with a faculty advisor.

**Pre-Medicine/Pre-Podiatry/Pre-Dentistry Concentration Requirements**

Code	Title	Credit Hours
<b>Concentration Requirements (courses count in major GPA)</b>		
BSCI 30105	CAREER PATHWAYS IN BIOLOGY	1
BSCI 30130	HUMAN PHYSIOLOGY	3
or BSCI 40430	ANIMAL PHYSIOLOGY	
BSCI 30140	CELL BIOLOGY	4
BSCI 30171	GENERAL MICROBIOLOGY	4
CHEM 20482	BASIC ORGANIC CHEMISTRY II <sup>1</sup>	2-3
or CHEM 30482	ORGANIC CHEMISTRY II	
CHEM 30284	INTRODUCTORY BIOLOGICAL CHEMISTRY	4
or CHEM 40245	BIOCHEMICAL FOUNDATIONS OF MEDICINE	
CHEM 30475	ORGANIC CHEMISTRY LABORATORY I (ELR)	1
CHEM 30476	ORGANIC CHEMISTRY LABORATORY II	1
PSYC 11762	GENERAL PSYCHOLOGY (DIVD) (KSS)	3
SOC 12050	INTRODUCTION TO SOCIOLOGY (DIVD) (KSS)	3
Biology (BSCI) Upper-Division Electives (30000 or 40000 level) <sup>2</sup>		14
Physics Electives, choose from the following:		10
PHY 13001 & PHY 13002 & PHY 13021 & PHY 13022	GENERAL COLLEGE PHYSICS I (KBS) and GENERAL COLLEGE PHYSICS II (KBS) and GENERAL COLLEGE PHYSICS LABORATORY I (KBS) (KLAB) and GENERAL COLLEGE PHYSICS LABORATORY II (KBS) (KLAB)	
PHY 23101 & PHY 23102	GENERAL UNIVERSITY PHYSICS I (KBS) (KLAB) and GENERAL UNIVERSITY PHYSICS II (KBS) (KLAB)	
Minimum Total Credit Hours:		50

- <sup>1</sup> Students must stay within a single organic chemistry series. CHEM 20482 is required if CHEM 20481 is selected in the major core; CHEM 30482 is required if CHEM 30481 is selected in the major core.
- <sup>2</sup> Students should select their upper-division biology electives in consultation with an advisor. The following courses are not required, but highly recommended for this major: BSCI 30518, BSCI 40174, BSCI 40517, BSCI 40433, BSCI 40434. In addition, students may take the following (maximum 6 credits total, maximum 4 credit hours S/U graded) for biology electives, but are not required to do so: BSCI 40191, BSCI 40192, BSCI 40196, BSCI 40199.

**GRADUATION REQUIREMENTS**

Minimum Major GPA	Minimum Overall GPA
2.000	2.000

**Foreign Language College Requirement**

- Students pursuing the Bachelor of Science degree in the College of Arts and Sciences must complete 8 credit hours of foreign language. <sup>1</sup>
- Minimum Elementary I and II of the same language

- <sup>1</sup> All students with prior foreign language experience should take the foreign language placement test to determine the appropriate level at which to start. Some students may begin their university foreign language experience beyond the Elementary I level and will complete the requirement with fewer credit hours and fewer courses. This may be accomplished by: (1) passing a course beyond the Elementary I through Intermediate II level or (2) receiving credit through Credit by Exam (CBE), the College Level Examination Program (CLEP), the Advanced Placement (AP) exam or credit through the International Baccalaureate (IB) program; or (3) being designated a 'native speaker' of a non-English language (consult with the College of Arts and Sciences Advising Office for additional information). When students complete the requirement with fewer than 8 credit hours and two courses, they will complete the remaining hours with general electives.

**The following Biological Sciences (BSCI) courses may NOT be used in the elective category for majors or minors in the Department of Biological Sciences:**

Code	Title	Credit Hours
BSCI 10001	HUMAN BIOLOGY (KBS)	3
BSCI 10002	LIFE ON PLANET EARTH (KBS)	3
BSCI 10003	LABORATORY EXPERIENCE IN BIOLOGY (KBS) (KLAB)	1
BSCI 10005	ANATOMY FOR VETERINARY TECHNICIANS	5
BSCI 11010	FOUNDATIONAL ANATOMY AND PHYSIOLOGY I (KBS) (KLAB)	3
BSCI 11020	FOUNDATIONAL ANATOMY AND PHYSIOLOGY II (KBS) (KLAB)	3
BSCI 16001	HORTICULTURAL BOTANY	3
BSCI 20019	BIOLOGICAL STRUCTURE AND FUNCTION	4
BSCI 20021	BASIC MICROBIOLOGY	3
BSCI 20022	BASIC MICROBIOLOGY LABORATORY	1
BSCI 21010	ANATOMY AND PHYSIOLOGY I (KBS) (KLAB)	4
BSCI 21020	ANATOMY AND PHYSIOLOGY II	4
BSCI 26002	ECOLOGICAL PRINCIPLES OF PEST MANAGEMENT	3



BSCI 26003	PLANT IDENTIFICATION AND SELECTION I	3
BSCI 26004	PLANT IDENTIFICATION AND SELECTION II	3
BSCI 30050	HUMAN GENETICS	3
BSCI 40020	BIOLOGY OF AGING	3

## Roadmaps

- Molecular and Cellular Biology Concentration
- Organismal Biology Concentration
- PreMedicine/PrePodiatry/PreDentistry Concentration

## MOLECULAR AND CELLULAR BIOLOGY CONCENTRATION

This roadmap is a recommended semester-by-semester plan of study for this major. However, courses designated as critical (!) must be completed in the semester listed to ensure a timely graduation.

Semester One		Credits
!	BSCI 10110 BIOLOGICAL DIVERSITY (KBS) (KLAB)	4
!	CHEM 10060 GENERAL CHEMISTRY I (KBS)	4
!	CHEM 10062 GENERAL CHEMISTRY I LABORATORY (KBS) (KLAB)	1
	UC 10097 DESTINATION KENT STATE: FIRST YEAR EXPERIENCE	1
	Kent Core Requirement	3
	Kent Core Requirement	3
Credit Hours		16

Semester Two		Credits
!	BSCI 10120 BIOLOGICAL FOUNDATIONS (KBS) (KLAB)	4
!	CHEM 10061 GENERAL CHEMISTRY II (KBS)	4
!	CHEM 10063 GENERAL CHEMISTRY II LABORATORY (KBS) (KLAB)	1
	Kent Core Requirement	3
	Kent Core Requirement	3
Credit Hours		15

Semester Three		Credits
!	BSCI 30140 CELL BIOLOGY	4
!	CHEM 20481 BASIC ORGANIC CHEMISTRY I or OR ORGANIC CHEMISTRY I CHEM 30481	3-4
	CHEM 20482 BASIC ORGANIC CHEMISTRY II or OR ORGANIC CHEMISTRY LABORATORY I CHEM 30475 (ELR) or OR ORGANIC CHEMISTRY II CHEM 30482	0-3
!	MATH 12002 ANALYTIC GEOMETRY AND CALCULUS I (KMCR)	5
!	Biology, Chemistry, Physics Electives	3
Credit Hours		16

Semester Four		Credits
!	BSCI 30156 ELEMENTS OF GENETICS	3
	CHEM 20482 BASIC ORGANIC CHEMISTRY II or OR ORGANIC CHEMISTRY LABORATORY I CHEM 30475 (ELR) or OR ORGANIC CHEMISTRY II CHEM 30482	0-3
!	MATH 12003 ANALYTIC GEOMETRY AND CALCULUS II or BASIC PROBABILITY AND STATISTICS MATH 30011	3-5
	Kent Core Requirement	3
	Kent Core Requirement	3

General Electives	2	
Credit Hours		14
<b>Semester Five</b>		
Biology, Chemistry, Physics Electives	9	
Foreign Language	4	
Kent Core Requirement	3	
Credit Hours		16
<b>Semester Six</b>		
BSCI 40158 MOLECULAR BIOLOGY	3	
Biology, Chemistry, Physics Electives	8	
Foreign Language	4	
Credit Hours		15
<b>Semester Seven</b>		
BSCI 40163 EVOLUTION	3	
BSCI 40600 WRITING IN THE BIOLOGICAL SCIENCES (WIC)	1	
Biology, Chemistry, Physics Electives	8	
General Electives	2	
Credit Hours		14
<b>Semester Eight</b>		
Biology, Chemistry, Physics Electives	3	
General Electives	11	
Credit Hours		14
Minimum Total Credit Hours:		120

## Organismal Biology Concentration

This roadmap is a recommended semester-by-semester plan of study for this major. However, courses designated as critical (!) must be completed in the semester listed to ensure a timely graduation.

<b>Semester One</b>			<b>Credits</b>
!	BSCI 10110	BIOLOGICAL DIVERSITY (KBS) (KLAB)	4
!	CHEM 10060	GENERAL CHEMISTRY I (KBS)	4
!	CHEM 10062	GENERAL CHEMISTRY I LABORATORY (KBS) (KLAB)	1
	UC 10097	DESTINATION KENT STATE: FIRST YEAR EXPERIENCE	1
	Kent Core Requirement		3
	Kent Core Requirement		3
	Credit Hours		16
<b>Semester Two</b>			
!	BSCI 10120	BIOLOGICAL FOUNDATIONS (KBS) (KLAB)	4
!	CHEM 10061	GENERAL CHEMISTRY II (KBS)	4
!	CHEM 10063	GENERAL CHEMISTRY II LABORATORY (KBS) (KLAB)	1
	Kent Core Requirement		3
	Kent Core Requirement		3
	Credit Hours		15
<b>Semester Three</b>			
!	CHEM 20481 or CHEM 30481	BASIC ORGANIC CHEMISTRY I or ORGANIC CHEMISTRY I	3-4
	CHEM 20482 or CHEM 30475 or CHEM 30482	BASIC ORGANIC CHEMISTRY II or ORGANIC CHEMISTRY LABORATORY I (ELR) or ORGANIC CHEMISTRY II	0-3
	Biology, Chemistry, Physics Electives		4
	Organismal Core Electives		4
	Kent Core Requirement		3
	Credit Hours		15
<b>Semester Four</b>			
!	BSCI 30156	ELEMENTS OF GENETICS	3
	CHEM 20482 or CHEM 30475 or CHEM 30482	BASIC ORGANIC CHEMISTRY II or ORGANIC CHEMISTRY LABORATORY I (ELR) or ORGANIC CHEMISTRY II	0-3
!	MATH 12002	ANALYTIC GEOMETRY AND CALCULUS I (KMCR)	5
	Kent Core Requirement		3
	Kent Core Requirement		3
	Credit Hours		14
<b>Semester Five</b>			
!	MATH 12003 or MATH 30011	ANALYTIC GEOMETRY AND CALCULUS II or BASIC PROBABILITY AND STATISTICS	3-5
	Biology, Chemistry, Physics Electives		9
	Foreign Language		4
	Credit Hours		16
<b>Semester Six</b>			
	Biology, Chemistry, Physics Electives		7
	Organismal Core Electives		3-4
	Foreign Language		4
	Credit Hours		14

<b>Semester Seven</b>		
BSCI 40163	EVOLUTION	3
BSCI 40600	WRITING IN THE BIOLOGICAL SCIENCES (WIC)	1
Biology, Chemistry, Physics Electives		7
General Electives		3
Credit Hours		14
<b>Semester Eight</b>		
Biology, Chemistry, Physics Electives		3
General Electives		13
Credit Hours		16
Minimum Total Credit Hours:		120

## PreMedicine/PrePodiatry/PreDentistry Concentration

This roadmap is a recommended semester-by-semester plan of study for this major. However, courses designated as critical (!) must be completed in the semester listed to ensure a timely graduation.

Semester One			Credits
!	BSCI 10110	BIOLOGICAL DIVERSITY (KBS) (KLAB)	4
!	CHEM 10060	GENERAL CHEMISTRY I (KBS)	4
!	CHEM 10062	GENERAL CHEMISTRY I LABORATORY (KBS) (KLAB)	1
	PSYC 11762	GENERAL PSYCHOLOGY (DIVD) (KSS)	3
	UC 10097	DESTINATION KENT STATE: FIRST YEAR EXPERIENCE	1
Kent Core Requirement			3
Credit Hours			16
Semester Two			
!	BSCI 10120	BIOLOGICAL FOUNDATIONS (KBS) (KLAB)	4
!	CHEM 10061	GENERAL CHEMISTRY II (KBS)	4
!	CHEM 10063	GENERAL CHEMISTRY II LABORATORY (KBS) (KLAB)	1
	SOC 12050	INTRODUCTION TO SOCIOLOGY (DIVD) (KSS)	3
Kent Core Requirement			3
Credit Hours			15
Semester Three			
!	BSCI 30140	CELL BIOLOGY	4
	CHEM 20481	BASIC ORGANIC CHEMISTRY I or or ORGANIC CHEMISTRY I CHEM 30481	3-4
	CHEM 30475	ORGANIC CHEMISTRY LABORATORY I (ELR)	1
!	MATH 12002	ANALYTIC GEOMETRY AND CALCULUS I (KMCR)	5
Kent Core Requirement			3
Credit Hours			16
Semester Four			
!	BSCI 30105	CAREER PATHWAYS IN BIOLOGY	1
!	BSCI 30156	ELEMENTS OF GENETICS	3
	BSCI 40600	WRITING IN THE BIOLOGICAL SCIENCES (WIC)	1
	CHEM 20482	BASIC ORGANIC CHEMISTRY II or or ORGANIC CHEMISTRY II CHEM 30482	2-3
	CHEM 30476	ORGANIC CHEMISTRY LABORATORY II	1
	MATH 12003	ANALYTIC GEOMETRY AND CALCULUS II or or BASIC PROBABILITY AND STATISTICS MATH 30011	3-5
Kent Core Requirement			3
Credit Hours			14
Semester Five			
!	BSCI 30130	HUMAN PHYSIOLOGY or or ANIMAL PHYSIOLOGY BSCI 40430	3
	Biology (BSCI) Upper-Division Electives (30000 or 40000 level)		4
	Physics Electives		5
Kent Core Requirement			3
Credit Hours			15
Semester Six			
!	BSCI 30171	GENERAL MICROBIOLOGY	4
	CHEM 30284	INTRODUCTORY BIOLOGICAL CHEMISTRY or or BIOCHEMICAL FOUNDATIONS OF CHEM 40245 MEDICINE	4
	Biology (BSCI) Upper-Division Electives (30000 or 40000 level)		3

Physics Electives	5
Credit Hours	16
Semester Seven	
BSCI 40163 EVOLUTION	3
Biology (BSCI) Upper-Division Electives (30000 or 40000 level)	3
Foreign Language	4
General Electives	4
Credit Hours	14
Semester Eight	
Biology (BSCI) Upper-Division Electives (30000 or 40000 level)	4
Foreign Language	4
General Electives	6
Credit Hours	14
Minimum Total Credit Hours:	120

## Biology - M.A.

### College of Arts and Sciences

Department of Biological Sciences

256 Cunningham Hall

Kent Campus

330-672-3613

kentbiology@kent.edu

www.kent.edu/biology

## Description

The Master of Arts degree in Biology is for students wishing to gain additional knowledge in any area of the biological sciences and are not looking towards a career in biological research. This non-thesis program complements secondary school science teachers, students looking for additional background or preparation for professional school programs such as in medicine or dentistry, and those seeking employment in life science industries in a non-research capacity.

### FULLY OFFERED AT:

- Kent Campus

## Admission Requirements

- Bachelor's degree from an accredited college or university for unconditional admission
- Minimum 3.000 undergraduate GPA on a 4.000 point scale for unconditional admission
- Official transcript(s)
- Goal statement
- Three letters of recommendation
- English language proficiency - all international students must provide proof of English language proficiency (unless they meet specific exceptions) by earning one of the following:
  - Minimum 587 TOEFL PBT score (paper-based version)
  - Minimum 94 TOEFL IBT score (Internet-based version)
  - Minimum 82 MELAB score
  - Minimum 7.0 IELTS score
  - Minimum 65 PTE score
  - Minimum 120 Duolingo English Test score

For more information about graduate admissions, please visit the Graduate Studies admission website. For more information on international admission, visit the Office of Global Education's admission website.

## Program Learning Outcomes

Graduates of this program will be able to:

1. Understand advanced biological concepts beyond the scope of the typical undergraduate degree and to increase the depth of their knowledge through coursework and hands-on experiences.
2. Apply scientific principles and appreciate work outside of their particular field.
3. Effectively communicate about science with colleagues as well as those outside of the student's area of expertise.
4. Develop the necessary laboratory skills that will allow testing of hypotheses.

## Program Requirements

### Major Requirements

Code	Title	Credit Hours
<b>Major Requirements</b>		
Courses selected in consultation with academic faculty advisor <sup>1</sup>		32
Students interested in cell-/molecular-/biomedical-/biotechnology-related areas are encouraged to choose from the following:		
BSCI 50158	MOLECULAR BIOLOGY	
BSCI 50142	BIOENERGETICS	
BSCI 50143 & BSCI 60144	EUKARYOTIC CELL BIOLOGY and SELECTED READINGS IN EUKARYOTIC CELL BIOLOGY	
BSCI 50174	IMMUNOLOGY	
BSCI 50432	ENDOCRINOLOGY	
BSCI 50433	MAMMALIAN PHYSIOLOGY I	
BSCI 50434	MAMMALIAN PHYSIOLOGY II	
Students interested in ecology are encouraged to choose from the following:		
BSCI 50163	EVOLUTION	
BSCI 50363	MICROBIAL ECOLOGY	
BSCI 50364	LIMNOLOGY	
BSCI 50368	WETLAND ECOLOGY AND MANAGEMENT	
BSCI 50374	CONSERVATION BIOLOGY	
BSCI 50556	VERTEBRATE ZOOLOGY	
BSCI 50371	EVOLUTIONARY BIOLOGY	
Teachers holding or pursuing K-12 licensure are encouraged to choose from the following:		
BSCI 50163	EVOLUTION	
BSCI 50196	INDIVIDUAL INVESTIGATION	
BSCI 60080	EXPERIMENTAL METHODS IN BIOLOGY	
Minimum Total Credit Hours:		32

### Graduation Requirements

Teachers holding or pursuing K-12 licensure must complete a minimum of 18 credit hours of biological sciences courses toward the degree. Students holding a bachelor's degree without K-12 licensure must complete a minimum of 23 hours of biological science courses toward the degree.

BSCI 50104 may not be used to fulfill degree requirements. Maximum 4 credit hours may be earned through workshops in the sciences and science education.

The Department of Biological Sciences frequently offers special topics classes in specialized areas of interest, which can count towards the degree when part of the approved program of study. Coursework in other fields within the natural and physical sciences may be used to meet credit hour requirements when part of the approved program of study.

## Biology - M.S.

### College of Arts and Sciences

Department of Biological Sciences

256 Cunningham Hall

Kent Campus

330-672-3613

kentbiology@kent.edu

www.kent.edu/biology

## Description

**Admission to the Master of Science degree in Biology has been temporarily suspended as of fall 2017.**

The Master of Science degree in Biology provides an advanced degree for students who have an undergraduate degree in biology or a related life science. The program is offered for working biologists in various professions including educators teaching science at the secondary level.

## Admission Requirements

- Bachelor's degree from an accredited college or university for unconditional admission
- Minimum 3.000 undergraduate GPA on a 4.000 point scale for unconditional admission
- Official transcript(s)
- Goal statement
- Three letters of recommendation
- GRE scores
- English language proficiency - all international students must provide proof of English language proficiency (unless they meet specific exceptions) by earning one of the following:
  - Minimum 587 TOEFL PBT score (paper-based version)
  - Minimum 94 TOEFL IBT score (Internet-based version)
  - Minimum 82 MELAB score
  - Minimum 7.0 IELTS score
  - Minimum 65 PTE score
  - Minimum 120 Duolingo English Test score

For more information about graduate admissions, please visit the Graduate Studies admission website. For more information on international admission, visit the Office of Global Education's admission website.

## Program Learning Outcomes

Graduates of this program will be able to:

1. Understand advanced biological concepts beyond the scope of the typical undergraduate degree, and increase the depth of their knowledge through coursework and hands-on experiences.

2. Apply scientific principles and appreciate work outside of their particular field.
3. Effectively communicate about science with colleagues as well as those outside of the student's area of expertise.;
4. Develop the necessary laboratory skills that will allow testing of hypotheses.

## Program Requirements

### Major Requirements

**Admission to the Master of Science degree in Biology has been temporarily suspended as of fall 2017.**

Code	Title	Credit Hours
<b>Major Requirements</b>		
Courses selected in consultation with academic faculty advisor		26
BSCI 60199	THESIS I <sup>1</sup>	6
Students interested in cell-/molecular-/biomedical-/biotechnology-related areas are encouraged to choose from the following:		
BSCI 50158	MOLECULAR BIOLOGY	
BSCI 50142	BIOENERGETICS	
BSCI 50143 & BSCI 60144	EUKARYOTIC CELL BIOLOGY and SELECTED READINGS IN EUKARYOTIC CELL BIOLOGY	
BSCI 50174	IMMUNOLOGY	
BSCI 50432	ENDOCRINOLOGY	
BSCI 50433	MAMMALIAN PHYSIOLOGY I	
BSCI 50434	MAMMALIAN PHYSIOLOGY II	
Students interested in ecology are encouraged to choose from the following:		
BSCI 50163	EVOLUTION	
BSCI 50363	MICROBIAL ECOLOGY	
BSCI 50364	LIMNOLOGY	
BSCI 50368	WETLAND ECOLOGY AND MANAGEMENT	
BSCI 50374	CONSERVATION BIOLOGY	
BSCI 50556	VERTEBRATE ZOOLOGY	
BSCI 50371	EVOLUTIONARY BIOLOGY	
Teachers holding or pursuing K-12 licensure are encouraged to choose from the following:		
BSCI 50163	EVOLUTION	
BSCI 50196	INDIVIDUAL INVESTIGATION	
BSCI 60080	EXPERIMENTAL METHODS IN BIOLOGY	
Minimum Total Credit Hours:		32

<sup>1</sup> After completing 6 credit hours of BSCI 60199, students must register continually for BSCI 60299 until the degree is earned.

### Graduation Requirements

Teachers holding or pursuing K-12 licensure must complete a minimum of 18 credit hours of biological sciences courses toward the degree. Students holding a bachelor's degree without K-12 licensure must complete a minimum of 23 hours of biological science courses toward the degree.

BSCI 50104 may not be used to fulfill degree requirements. Maximum 4 credit hours may be earned through workshops in the sciences and science education.

The Department of Biological Sciences frequently offers special topics classes in specialized areas of interest, which can count towards the degree when part of the approved program of study. Coursework in other fields within the natural and physical sciences may be used to meet credit hour requirements when part of the approved program of study.

## Biotechnology - B.S.

### College of Arts and Sciences

Department of Biological Sciences  
256 Cunningham Hall  
Kent Campus  
330-672-3613  
kentbiology@kent.edu  
www.kent.edu/biology

Department of Chemistry and Biochemistry  
208 Williams Hall  
Kent Campus  
330-672-2032  
chem@kent.edu  
www.kent.edu/chemistry

### Description

The Bachelor of Science degree in Biotechnology is an interdisciplinary program that provides a strong academic foundation in biological sciences and chemistry, practical training in the various biotechnologies and a solid understanding of their application in industry and biomedicine. The science of biotechnology extends across many areas of biology and chemistry and provides cutting-edge technology tools for modern biology and biomedical research. The curriculum includes a research experience at Kent State and/or an internship at a biotechnology company.

Biotechnology graduates have employment opportunities in biomedical research and in the rapidly growing biotechnology and pharmaceutical industries.

### Fully Offered At:

- Kent Campus

### Admission Requirements

The university affirmatively strives to provide educational opportunities and access to students with varied backgrounds, those with special talents and adult students who graduated from high school three or more years ago.

**Freshman Students on the Kent Campus:** The freshman admission policy on the Kent Campus is selective. Admission decisions are based upon the following: cumulative grade point average, ACT and/or SAT scores, strength of high school college preparatory curriculum and grade trends. The Admissions Office at the Kent Campus may defer the admission of students who do not meet admissions criteria but who demonstrate areas of promise for successful college study. Deferred applicants may begin their college coursework at one of seven regional campuses of Kent State University. For more information on admissions, including additional requirements for some academic programs, visit the admissions website for new freshmen.



**Freshman Students on the Regional Campuses:** Kent State campuses at Ashtabula, East Liverpool, Geauga, Salem, Stark, Trumbull and Tuscarawas, as well as the Regional Academic Center in Twinsburg, have open enrollment admission for students who hold a high school diploma, GED or equivalent.

**English Language Proficiency Requirements for International Students:** All international students must provide proof of English language proficiency (unless they meet specific exceptions) by earning a minimum 525 TOEFL score (71 on the Internet-based version), minimum 75 MELAB score, minimum 6.0 IELTS score or minimum 48 PTE score, or by completing the ESL level 112 Intensive Program. For more information on international admission, visit the Office of Global Education's admission website.

**Transfer, Transitioning and Former Students:** For more information about admission criteria for transfer, transitioning and former students, please visit the admissions website.

## Program Learning Outcomes

Graduates of this program will be able to:

1. Apply knowledge and information to complex issues in biotechnology
2. Use problem-solving and data-gathering skills to comprehend issues in biotechnology.
3. Develop inductive reasoning and technical communications skills in the context of working in a complex group environment.
4. Analyze scientific papers and expand skills for listening to and critiquing scientific seminars based on the literature or current research.
5. Effectively communicate scientific information.
6. Develop collaborative working relationships with research mentors and laboratory members.

## University Requirements

All students in a bachelor's degree program at Kent State University must complete the following university requirements for graduation.

**NOTE:** University requirements may be fulfilled in this program by specific course requirements. Please see Program Requirements for details.

Destination Kent State: First Year Experience	1
Course is not required for students with 25 transfer credits, excluding College Credit Plus, or age 21+ at time of admission.	
Diversity Domestic/Global (DIVD/DIVG)	2 courses
Students must successfully complete one domestic and one global course, of which one must be from the Kent Core.	
Experiential Learning Requirement (ELR)	varies
Students must successfully complete one course or approved experience.	
Kent Core (see table below)	36-37
Writing-Intensive Course (WIC)	1 course
Students must earn a minimum C grade in the course.	
Upper-Division Requirement	39 (or 42)
Students must successfully complete 39 upper-division (numbered 3000 to 49999) credit hours to graduate. Students in a B.A. and/or B.S. degree in the College of Arts and Sciences must complete 42 upper-division credit hours.	
Total Credit Hour Requirement	120

Some bachelor's degrees require students to complete more than 120 credit hours.

## Kent Core Requirements

Kent Core Composition (KCMP)	6
Kent Core Mathematics and Critical Reasoning (KMCR)	3
Kent Core Humanities and Fine Arts (KHUM/KFA) (min one course each)	9
Kent Core Social Sciences (KSS) (must be from two disciplines)	6
Kent Core Basic Sciences (KBS/KLAB) (must include one laboratory)	6-7
Kent Core Additional (KADL)	6
<b>Total Credit Hours:</b>	<b>36-37</b>

## Program Requirements

### Major Requirements

Code	Title	Credit Hours
<b>Major Requirements (courses count in major GPA)</b>		
BSCI 10120	BIOLOGICAL FOUNDATIONS (KBS) (KLAB)	4
BSCI 30140	CELL BIOLOGY	4
BSCI 30156	ELEMENTS OF GENETICS	3
BSCI 30171	GENERAL MICROBIOLOGY	4
BSCI 40158	MOLECULAR BIOLOGY	3
BTEC 10210	INTRODUCTION TO BIOTECHNOLOGY	3
BTEC 40191	SEMINAR: RECENT DEVELOPMENTS IN BIOTECHNOLOGY	1
BTEC 40192	INTERNSHIP IN BIOTECHNOLOGY (ELR)	6-12
or BTEC 40196	INDIVIDUAL INVESTIGATION IN BIOTECHNOLOGY (ELR)	
BTEC 40210	CASE STUDIES IN BIOTECHNOLOGY (WIC)	3
BTEC 40220	BIOINFORMATICS	3
BUS 10123	EXPLORING BUSINESS	3
CHEM 10060	GENERAL CHEMISTRY I (KBS)	4
CHEM 10061	GENERAL CHEMISTRY II (KBS)	4
CHEM 10062	GENERAL CHEMISTRY I LABORATORY (KBS) (KLAB)	1
CHEM 10063	GENERAL CHEMISTRY II LABORATORY (KBS) (KLAB)	1
CHEM 20481	BASIC ORGANIC CHEMISTRY I	4
CHEM 30284	INTRODUCTORY BIOLOGICAL CHEMISTRY	4
CHEM 40251	ADVANCED BIOLOGICAL CHEMISTRY LABORATORY (WIC) (min grade C) <sup>1</sup>	2
CHEM 40262	PRINCIPLES OF BIOCHEMISTRY II	3
MATH 12002	ANALYTIC GEOMETRY AND CALCULUS I (KMCR)	5
MATH 30011	BASIC PROBABILITY AND STATISTICS	3
PHIL 30015	MEDICINE AND MORALITY	3
PHY 13001	GENERAL COLLEGE PHYSICS I (KBS)	4
PHY 13021	GENERAL COLLEGE PHYSICS LABORATORY I (KBS) (KLAB)	1
Major Electives, choose from the following:		9
BSCI 30518	VERTEBRATE ANATOMY	
BSCI 40143	EUKARYOTIC CELL BIOLOGY	
BSCI 40159	MOLECULAR BIOLOGY LABORATORY (ELR) (WIC)	
BSCI 40174	IMMUNOLOGY	
CHEM 30105	ANALYTICAL CHEMISTRY I	

CHEM 30107	ANALYTICAL CHEMISTRY LABORATORY I (WIC)	
CHEM 30301	INORGANIC CHEMISTRY I	
CHEM 30475	ORGANIC CHEMISTRY LABORATORY I (ELR)	
CHEM 40567	PHYSICAL CHEMISTRY FOR LIFE SCIENCES	
PSYC 41363	BIOPSYCHOLOGY	
Upper-Division Electives (30000 or 40000 level) approved by program director		
<b>Additional Requirements (courses do not count in major GPA)</b>		
CS 10051	INTRODUCTION TO COMPUTER SCIENCE (KMCR)	4
PHIL 21001	INTRODUCTION TO ETHICS (DIVG) (KHUM)	3
UC 10097	DESTINATION KENT STATE: FIRST YEAR EXPERIENCE	1
Foreign Language (see Foreign Language College Requirement below)		8
Kent Core Composition		6
Kent Core Humanities and Fine Arts (minimum one course from each)		6
Kent Core Social Sciences (must be from two disciplines)		6
General Elective (total credit hours depends on earning 120 credit hours, including 42 upper-division credit hours)		1
Minimum Total Credit Hours:		120

<sup>1</sup> A minimum C grade must be earned to fulfill the writing-intensive requirement.

## Graduation Requirements

Minimum Major GPA	Minimum Overall GPA
2.000	2.000

### Foreign Language College Requirement

- Students pursuing the Bachelor of Science degree in the College of Arts and Sciences must complete 8 credit hours of foreign language.<sup>1</sup>
- Minimum Elementary I and II of the same language

<sup>1</sup> All students with prior foreign language experience should take the foreign language placement test to determine the appropriate level at which to start. Some students may begin their university foreign language experience beyond the Elementary I level and will complete the requirement with fewer credit hours and fewer courses. This may be accomplished by: (1) passing a course beyond the Elementary I through Intermediate II level or (2) receiving credit through Credit by Exam (CBE), the College Level Examination Program (CLEP), the Advanced Placement (AP) exam or credit through the International Baccalaureate (IB) program; or (3) being designated a 'native speaker' of a non-English language (consult with the College of Arts and Sciences Advising Office for additional information). When students complete the requirement with fewer than 8 credit hours and two courses, they will complete the remaining hours with general electives.

## Roadmap

This roadmap is a recommended semester-by-semester plan of study for this major. However, courses designated as critical (!) must be completed in the semester listed to ensure a timely graduation.

Semester One		Credits
!	BSCI 10120 BIOLOGICAL FOUNDATIONS (KBS) (KLAB)	4
!	CHEM 10060 GENERAL CHEMISTRY I (KBS)	4
!	CHEM 10062 GENERAL CHEMISTRY I LABORATORY (KBS) (KLAB)	1
	MATH 12002 ANALYTIC GEOMETRY AND CALCULUS I (KMCR)	5
	UC 10097 DESTINATION KENT STATE: FIRST YEAR EXPERIENCE	1
Credit Hours		15
Semester Two		
	BSCI 30140 CELL BIOLOGY	4
	BTEC 10210 INTRODUCTION TO BIOTECHNOLOGY	3
	CHEM 10061 GENERAL CHEMISTRY II (KBS)	4
	CHEM 10063 GENERAL CHEMISTRY II LABORATORY (KBS) (KLAB)	1
Kent Core Requirement		3
Credit Hours		15
Semester Three		
	BSCI 30171 GENERAL MICROBIOLOGY	4
	CHEM 20481 BASIC ORGANIC CHEMISTRY I	4
	PHIL 21001 INTRODUCTION TO ETHICS (DIVG) (KHUM)	3
	Foreign Language	4
Credit Hours		15
Semester Four		
	BSCI 30156 ELEMENTS OF GENETICS	3
	CS 10051 INTRODUCTION TO COMPUTER SCIENCE (KMCR)	4
	PHY 13001 GENERAL COLLEGE PHYSICS I (KBS)	4
	PHY 13021 GENERAL COLLEGE PHYSICS LABORATORY I (KBS) (KLAB)	1
	Foreign Language	4
Credit Hours		16
Semester Five		
	BUS 10123 EXPLORING BUSINESS	3
	MATH 30011 BASIC PROBABILITY AND STATISTICS	3
	PHIL 30015 MEDICINE AND MORALITY	3
Kent Core Requirement		3
Kent Core Requirement		3
General Elective		1
Credit Hours		16
Semester Six		
	BSCI 40158 MOLECULAR BIOLOGY	3
	CHEM 30284 INTRODUCTORY BIOLOGICAL CHEMISTRY	4
Major Elective		3
Kent Core Requirement		3
Kent Core Requirement		3
Credit Hours		16
Third Summer Term		
	BTEC 40192 INTERNSHIP IN BIOTECHNOLOGY (ELR) or BTEC 40196 or INDIVIDUAL INVESTIGATION IN BIOTECHNOLOGY (ELR)	2-6
Credit Hours		2

### Semester Seven

BTEC 40191	SEMINAR: RECENT DEVELOPMENTS IN BIOTECHNOLOGY	1
BTEC 40210	CASE STUDIES IN BIOTECHNOLOGY (WIC)	3
BTEC 40220	BIOINFORMATICS	3
Major Elective		3
Kent Core Requirement		3
Credit Hours		13
Semester Eight		
BTEC 40192	INTERNSHIP IN BIOTECHNOLOGY (ELR) or BTEC 40196 or INDIVIDUAL INVESTIGATION IN BIOTECHNOLOGY (ELR)	4-6
CHEM 40251	ADVANCED BIOLOGICAL CHEMISTRY LABORATORY (WIC)	2
CHEM 40262	PRINCIPLES OF BIOCHEMISTRY II	3
Major Elective		3
Credit Hours		12
Minimum Total Credit Hours:		120

## Botany - B.S.

### College of Arts and Sciences

Department of Biological Sciences  
256 Cunningham Hall  
Kent Campus  
330-672-3613  
kentbiology@kent.edu  
www.kent.edu/biology

## Description

The Bachelor of Science degree in Botany focuses on the scientific study of plants, and the understanding of how plants provide aesthetic beauty, as well as materials for the basic needs, including food, shelter and oxygen. Botanical research has diverse applications in modern horticulture, agriculture, soil science and forestry, in addition to pharmacology and biotechnology.

Many students continue their education in graduate or professional programs. Those opting to enter directly into the workforce find jobs in fields related to the economic importance of plants, including agriculturally-based and related professions, environmental consulting or in federal, state or local agencies. The Department of Biological Sciences offers several mechanisms to help students prepare for their future careers.

### Fully Offered At:

- Kent Campus

## Admission Requirements

The university affirmatively strives to provide educational opportunities and access to students with varied backgrounds, those with special talents and adult students who graduated from high school three or more years ago.

**Freshman Students on the Kent Campus:** The freshman admission policy on the Kent Campus is selective. Admission decisions are based upon the following: cumulative grade point average, ACT and/or SAT scores, strength of high school college preparatory curriculum and

grade trends. The Admissions Office at the Kent Campus may defer the admission of students who do not meet admissions criteria but who demonstrate areas of promise for successful college study. Deferred applicants may begin their college coursework at one of seven regional campuses of Kent State University. For more information on admissions, including additional requirements for some academic programs, visit the admissions website for new freshmen.

**Freshman Students on the Regional Campuses:** Kent State campuses at Ashtabula, East Liverpool, Geauga, Salem, Stark, Trumbull and Tuscarawas, as well as the Regional Academic Center in Twinsburg, have open enrollment admission for students who hold a high school diploma, GED or equivalent.

**English Language Proficiency Requirements for International Students:** All international students must provide proof of English language proficiency (unless they meet specific exceptions) by earning a minimum 525 TOEFL score (71 on the Internet-based version), minimum 75 MELAB score, minimum 6.0 IELTS score or minimum 48 PTE score, or by completing the ESL level 112 Intensive Program. For more information on international admission, visit the Office of Global Education's admission website.

**Transfer, Transitioning and Former Students:** For more information about admission criteria for transfer, transitioning and former students, please visit the admissions website.

## Program Learning Outcomes

Graduates of this program will be able to:

1. Understand fundamental biological principles.
2. Acquire fundamental skills necessary for laboratory and field investigations.
3. Conduct proper experimental design, analyze biological data and communicate research results.
4. Know and appreciate the role that biology plays in societal issues, such as those related to the environment, biodiversity, ethics, human health and disease.

## University Requirements

All students in a bachelor's degree program at Kent State University must complete the following university requirements for graduation.

**NOTE:** University requirements may be fulfilled in this program by specific course requirements. Please see Program Requirements for details.

Destination Kent State: First Year Experience	1
Course is not required for students with 25 transfer credits, excluding College Credit Plus, or age 21+ at time of admission.	
Diversity Domestic/Global (DIVD/DIVG)	2 courses
Students must successfully complete one domestic and one global course, of which one must be from the Kent Core.	
Experiential Learning Requirement (ELR)	varies
Students must successfully complete one course or approved experience.	
Kent Core (see table below)	36-37
Writing-Intensive Course (WIC)	1 course
Students must earn a minimum C grade in the course.	
Upper-Division Requirement	39 (or 42)

Students must successfully complete 39 upper-division (numbered 30000 to 49999) credit hours to graduate. Students in a B.A. and/or B.S. degree in the College of Arts and Sciences must complete 42 upper-division credit hours.

Total Credit Hour Requirement	120
Some bachelor's degrees require students to complete more than 120 credit hours.	

## Kent Core Requirements

Kent Core Composition (KCMP)	6
Kent Core Mathematics and Critical Reasoning (KMCR)	3
Kent Core Humanities and Fine Arts (KHUM/KFA) (min one course each)	9
Kent Core Social Sciences (KSS) (must be from two disciplines)	6
Kent Core Basic Sciences (KBS/KLAB) (must include one laboratory)	6-7
Kent Core Additional (KADL)	6
<b>Total Credit Hours:</b>	<b>36-37</b>

## Program Requirements

### Major Requirements

Code	Title	Credit Hours
<b>Major Requirements (courses count in major GPA)</b>		
BSCI 10110	BIOLOGICAL DIVERSITY (KBS) (KLAB)	4
BSCI 10120	BIOLOGICAL FOUNDATIONS (KBS) (KLAB)	4
BSCI 30156	ELEMENTS OF GENETICS	3
BSCI 40163	EVOLUTION	3
BSCI 40600	WRITING IN THE BIOLOGICAL SCIENCES (WIC) <sup>1</sup>	1
CHEM 10060	GENERAL CHEMISTRY I (KBS)	4
CHEM 10061	GENERAL CHEMISTRY II (KBS)	4
CHEM 10062	GENERAL CHEMISTRY I LABORATORY (KBS) (KLAB)	1
CHEM 10063	GENERAL CHEMISTRY II LABORATORY (KBS) (KLAB)	1
CHEM 20481	BASIC ORGANIC CHEMISTRY I	3-4
or CHEM 30481	ORGANIC CHEMISTRY I	
CHEM 20482	BASIC ORGANIC CHEMISTRY II <sup>2</sup>	1-3
or CHEM 30475	ORGANIC CHEMISTRY LABORATORY I (ELR)	
or CHEM 30482	ORGANIC CHEMISTRY II	
MATH 12002	ANALYTIC GEOMETRY AND CALCULUS I (KMCR)	5
MATH 12003	ANALYTIC GEOMETRY AND CALCULUS II	3-5
or MATH 30011	BASIC PROBABILITY AND STATISTICS	
Botany Core Electives, choose from the following:		12
BSCI 30267	PLANT PHYSIOLOGY	
BSCI 30270	GENERAL PLANT BIOLOGY	
BSCI 30271	GENERAL PLANT BIOLOGY LABORATORY	
BSCI 30274	FORESTRY	
BSCI 30275	LOCAL FLORA (ELR)	
BSCI 30277	ECONOMIC BOTANY	
BSCI 40162	SOIL BIOLOGY	
BSCI 40272	PLANT ANATOMY	
Biology, Chemistry, Physics Electives, choose from the following: <sup>3</sup>		26
Biology (BSCI) Electives <sup>3</sup>		
CHEM 20482	BASIC ORGANIC CHEMISTRY II	
or CHEM 30482	ORGANIC CHEMISTRY II	

CHEM 30475	ORGANIC CHEMISTRY LABORATORY I (ELR)
CHEM 30476	ORGANIC CHEMISTRY LABORATORY II
PHY 13001 & PHY 13021	GENERAL COLLEGE PHYSICS I (KBS) and GENERAL COLLEGE PHYSICS LABORATORY I (KBS) (KLAB)
or PHY 23101	GENERAL UNIVERSITY PHYSICS I (KBS) (KLAB)
PHY 13002 & PHY 13022	GENERAL COLLEGE PHYSICS II (KBS) and GENERAL COLLEGE PHYSICS LABORATORY II (KBS) (KLAB)
or PHY 23102	GENERAL UNIVERSITY PHYSICS II (KBS) (KLAB)

**Additional Requirements (courses do not count in major GPA)**

UC 10097	DESTINATION KENT STATE: FIRST YEAR EXPERIENCE	1
Foreign Language (see Foreign Language College Requirement below)		8
Kent Core Composition		6
Kent Core Humanities and Fine Arts (minimum one course from each)		9
Kent Core Social Sciences (must be from two disciplines)		6
General Electives (total credit hours depends on earning 120 credit hours, including 42 upper-division credit hours)		15
Minimum Total Credit Hours:		120

<sup>1</sup> A minimum C grade must be earned to fulfill the writing-intensive requirement.

<sup>2</sup> CHEM 20482 may be substituted with CHEM 30284 with faculty advisor approval.

<sup>3</sup> Students should select their electives in consultation with an advisor. To fulfill this elective list, students must select a minimum of one from the following courses: BSCI 30105, BSCI 40191, BSCI 40192, BSCI 40196, BSCI 40199. However, they may only select a maximum of 6 credit hours of any combination of these courses (with no more than 4 credit hours S/U graded). Enrollment in these course must be determined with a faculty advisor.

The following Biological Sciences (BSCI) courses may NOT be used in the elective category for majors or minors in the Department of Biological Sciences:

Code	Title	Credit Hours
BSCI 10001	HUMAN BIOLOGY (KBS)	3
BSCI 10002	LIFE ON PLANET EARTH (KBS)	3
BSCI 10003	LABORATORY EXPERIENCE IN BIOLOGY (KBS) (KLAB)	1
BSCI 10005	ANATOMY FOR VETERINARY TECHNICIANS	5
BSCI 11010	FOUNDATIONAL ANATOMY AND PHYSIOLOGY I (KBS) (KLAB)	3
BSCI 11020	FOUNDATIONAL ANATOMY AND PHYSIOLOGY II (KBS) (KLAB)	3
BSCI 16001	HORTICULTURAL BOTANY	3
BSCI 20019	BIOLOGICAL STRUCTURE AND FUNCTION	4
BSCI 20021	BASIC MICROBIOLOGY	3
BSCI 20022	BASIC MICROBIOLOGY LABORATORY	1
BSCI 21010	ANATOMY AND PHYSIOLOGY I (KBS) (KLAB)	4
BSCI 21020	ANATOMY AND PHYSIOLOGY II	4
BSCI 26002	ECOLOGICAL PRINCIPLES OF PEST MANAGEMENT	3
BSCI 26003	PLANT IDENTIFICATION AND SELECTION I	3
BSCI 26004	PLANT IDENTIFICATION AND SELECTION II	3
BSCI 30050	HUMAN GENETICS	3
BSCI 40020	BIOLOGY OF AGING	3

## Graduation Requirements

Minimum Major GPA	Minimum Overall GPA
2.000	2.000

### Foreign Language College Requirement

- Students pursuing the Bachelor of Science degree in the College of Arts and Sciences must complete 8 credit hours of foreign language.<sup>1</sup>
- Minimum Elementary I and II of the same language

<sup>1</sup> All students with prior foreign language experience should take the foreign language placement test to determine the appropriate level at which to start. Some students may begin their university foreign language experience beyond the Elementary I level and will complete the requirement with fewer credit hours and fewer courses. This may be accomplished by: (1) passing a course beyond the Elementary I through Intermediate II level or (2) receiving credit through Credit by Exam (CBE), the College Level Examination Program (CLEP), the Advanced Placement (AP) exam or credit through the International Baccalaureate (IB) program; or (3) being designated a 'native speaker' of a non-English language (consult with the College of Arts and Sciences Advising Office for additional information). When students complete the requirement with fewer than 8 credit hours and two courses, they will complete the remaining hours with general electives.



## Roadmap

This roadmap is a recommended semester-by-semester plan of study for this major. However, courses designated as critical (!) must be completed in the semester listed to ensure a timely graduation.

Semester One		Credits
!	BSCI 10110 BIOLOGICAL DIVERSITY (KBS) (KLAB)	4
!	CHEM 10060 GENERAL CHEMISTRY I (KBS)	4
!	CHEM 10062 GENERAL CHEMISTRY I LABORATORY (KBS) (KLAB)	1
	UC 10097 DESTINATION KENT STATE: FIRST YEAR EXPERIENCE	1
	Kent Core Requirement	3
	Kent Core Requirement	3
Credit Hours		16
Semester Two		
!	BSCI 10120 BIOLOGICAL FOUNDATIONS (KBS) (KLAB)	4
!	CHEM 10061 GENERAL CHEMISTRY II (KBS)	4
!	CHEM 10063 GENERAL CHEMISTRY II LABORATORY (KBS) (KLAB)	1
	Kent Core Requirement	3
	Kent Core Requirement	3
Credit Hours		15
Semester Three		
!	CHEM 20481 BASIC ORGANIC CHEMISTRY I or ORGANIC CHEMISTRY I or CHEM 30481	3-4
	CHEM 20482 BASIC ORGANIC CHEMISTRY II or ORGANIC CHEMISTRY LABORATORY I or CHEM 30475 (ELR) or ORGANIC CHEMISTRY II or CHEM 30482	0-3
	Botany Core Elective	4
	Kent Core Requirement	3
	Kent Core Requirement	3
	Kent Core Requirement	3
Credit Hours		17
Semester Four		
!	BSCI 30156 ELEMENTS OF GENETICS	3
	CHEM 20482 BASIC ORGANIC CHEMISTRY II or ORGANIC CHEMISTRY LABORATORY I or CHEM 30475 (ELR) or ORGANIC CHEMISTRY II or CHEM 30482	0-3
	Botany Core Elective	4
	Biology, Chemistry, Physics Electives	3
	General Elective	3
Credit Hours		13
Semester Five		
	MATH 12002 ANALYTIC GEOMETRY AND CALCULUS I (KMCR)	5
	Botany Core Elective	4
	Biology, Chemistry, Physics Electives	3
	Foreign Language	4
Credit Hours		16
Semester Six		
	MATH 12003 ANALYTIC GEOMETRY AND CALCULUS II or BASIC PROBABILITY AND STATISTICS or MATH 30011	3-5

Biology, Chemistry, Physics Electives	9
Foreign Language	4
Credit Hours	16
Semester Seven	
BSCI 40163 EVOLUTION	3
BSCI 40600 WRITING IN THE BIOLOGICAL SCIENCES (WIC)	1
Biology, Chemistry, Physics Electives	8
General Electives	3
Credit Hours	15
Semester Eight	
Biology, Chemistry, Physics Electives	3
General Electives	9
Credit Hours	12
Minimum Total Credit Hours:	120

## Environmental and Conservation Biology - B.S.

### College of Arts and Sciences

Department of Biological Sciences  
256 Cunningham Hall  
Kent Campus  
330-672-3613  
kentbiology@kent.edu  
www.kent.edu/biology

## Description

The Bachelor of Science degree in Environmental and Conservation Biology is designed for students interested in a career in the environmental sciences. This program provides an interdisciplinary education in biology and the supporting fields of geology, geography and chemistry. Environmental and conservation biologists work to sustainably manage or restore ecosystems, develop and implement environmental policies, or conduct research on how ecological processes affect biological diversity.

Potential careers for graduates include wildlife ecologists, environmental educators, forest managers, environmental consultants and personnel at public environmental regulatory or land use planning agencies. The Department of Biological Sciences has several mechanisms to help students prepare for their future careers.

The Environmental and Conservation Biology major comprises the following concentrations:

- The **Conservation Biology** concentration provides a strong background in applied ecology, restoration ecology and habitat management strategies used to sustain biological diversity.
- The **Environmental Policy and Management** concentration provides opportunities to learn about the development and implementation of habitat management methods and public policies that promote the sustainable use of natural resources and address environmental problems.

### Fully Offered At:

- Kent Campus

## Admission Requirements

The university affirmatively strives to provide educational opportunities and access to students with varied backgrounds, those with special talents and adult students who graduated from high school three or more years ago.

**Freshman Students on the Kent Campus:** The freshman admission policy on the Kent Campus is selective. Admission decisions are based upon the following: cumulative grade point average, ACT and/or SAT scores, strength of high school college preparatory curriculum and grade trends. The Admissions Office at the Kent Campus may defer the admission of students who do not meet admissions criteria but who demonstrate areas of promise for successful college study. Deferred applicants may begin their college coursework at one of seven regional campuses of Kent State University. For more information on admissions, including additional requirements for some academic programs, visit the admissions website for new freshmen.

**Freshman Students on the Regional Campuses:** Kent State campuses at Ashtabula, East Liverpool, Geauga, Salem, Stark, Trumbull and Tuscarawas, as well as the Regional Academic Center in Twinsburg, have open enrollment admission for students who hold a high school diploma, GED or equivalent.

**English Language Proficiency Requirements for International Students:** All international students must provide proof of English language proficiency (unless they meet specific exceptions) by earning a minimum 525 TOEFL score (71 on the Internet-based version), minimum 75 MELAB score, minimum 6.0 IELTS score or minimum 48 PTE score, or by completing the ESL level 112 Intensive Program. For more information on international admission, visit the Office of Global Education's admission website.

**Transfer, Transitioning and Former Students:** For more information about admission criteria for transfer, transitioning and former students, please visit the admissions website.

## Program Learning Outcomes

Graduates of this program will be able to:

1. Demonstrate an understanding of fundamental biological principles.
2. Acquire fundamental skills necessary for laboratory and field investigations.
3. Demonstrate an understanding of proper experimental design, analysis of biological data and communication of research results.
4. Demonstrate a greater knowledge and appreciation of the role that biology plays in societal issues, such as those related to the environment, biodiversity, ethics, human health and disease.

## University Requirements

All students in a bachelor's degree program at Kent State University must complete the following university requirements for graduation.

**NOTE:** University requirements may be fulfilled in this program by specific course requirements. Please see Program Requirements for details.

Destination Kent State: First Year Experience	1
Course is not required for students with 25 transfer credits, excluding College Credit Plus, or age 21+ at time of admission.	
Diversity Domestic/Global (DIVD/DIVG)	2 courses

Students must successfully complete one domestic and one global course, of which one must be from the Kent Core.	
Experiential Learning Requirement (ELR)	varies
Students must successfully complete one course or approved experience.	
Kent Core (see table below)	36-37
Writing-Intensive Course (WIC)	1 course
Students must earn a minimum C grade in the course.	
Upper-Division Requirement	39 (or 42)
Students must successfully complete 39 upper-division (numbered 30000 to 49999) credit hours to graduate. Students in a B.A. and/or B.S. degree in the College of Arts and Sciences must complete 42 upper-division credit hours.	
Total Credit Hour Requirement	120
Some bachelor's degrees require students to complete more than 120 credit hours.	

## Kent Core Requirements

Kent Core Composition (KCMP)	6
Kent Core Mathematics and Critical Reasoning (KMCR)	3
Kent Core Humanities and Fine Arts (KHUM/KFA) (min one course each)	9
Kent Core Social Sciences (KSS) (must be from two disciplines)	6
Kent Core Basic Sciences (KBS/KLAB) (must include one laboratory)	6-7
Kent Core Additional (KADL)	6
<b>Total Credit Hours:</b>	<b>36-37</b>

## Program Requirements

### Major Requirements

Code	Title	Credit Hours
<b>Major Requirements (courses count in major GPA)</b>		
BSCI 10110	BIOLOGICAL DIVERSITY (KBS) (KLAB)	4
BSCI 10120	BIOLOGICAL FOUNDATIONS (KBS) (KLAB)	4
BSCI 30156	ELEMENTS OF GENETICS	3
BSCI 30360	GENERAL ECOLOGY	4
BSCI 40163	EVOLUTION	3
BSCI 40600	WRITING IN THE BIOLOGICAL SCIENCES (WIC) <sup>1</sup>	1
CHEM 10060	GENERAL CHEMISTRY I (KBS)	4
CHEM 10061	GENERAL CHEMISTRY II (KBS)	4
CHEM 10062	GENERAL CHEMISTRY I LABORATORY (KBS) (KLAB)	1
CHEM 10063	GENERAL CHEMISTRY II LABORATORY (KBS) (KLAB)	1
GEOG 39002	STATISTICAL METHODS IN GEOGRAPHY	3
or GEOL 42035	SCIENTIFIC METHODS IN GEOLOGY	
GEOG 49070	GEOGRAPHIC INFORMATION SCIENCE	4
GEOL 11040	HOW THE EARTH WORKS (KBS)	3
GEOL 11041	HOW THE EARTH WORKS LABORATORY (KBS) (KLAB)	1
MATH 12002	ANALYTIC GEOMETRY AND CALCULUS I (KMCR)	5
Geography Electives, choose from the following:		6
GEOG 31062	FUNDAMENTALS OF METEOROLOGY	
GEOG 31064	PRINCIPLES OF CLIMATOLOGY	
GEOG 41052	GLACIERS AND GLACIATION	
GEOG 41066	GLOBAL CLIMATE CHANGE	

GEOG 41073	CONSERVATION OF NATURAL RESOURCES	
GEOG 41074	RESOURCE GEOGRAPHY	
GEOG 41082	GEOGRAPHY OF SOILS	
GEOG 49080	ADVANCED GEOGRAPHIC INFORMATION SCIENCE	
GEOG 49230	REMOTE SENSING	
Geography (GEOG) Upper-Division Electives (30000 or 40000 level) with biology advisor approval		
Geology Electives, choose from the following:		6-8
GEOL 32066	GEOMORPHOLOGY	
GEOL 41077	GEOLOGY OF THE NATIONAL PARKS	
GEOL 42067	INTRODUCTORY HYDROGEOLOGY	
GEOL 42069	HYDROGEOCHEMISTRY	
GEOL 42074	ENVIRONMENTAL CORE AND WELL LOGGING	
GEOL 42078	ENGINEERING GEOLOGY	
GEOL 43042	ENVIRONMENTAL GEOCHEMISTRY	
GEOL 43044	ENVIRONMENTAL ISOTOPES	
GEOL 44074	PALEOCEANOGRAPHY	
Geology (GEOL) Upper-Division Electives (30000 or 40000 level) with biology advisor approval		
<b>Additional Requirements (courses do not count in major GPA)</b>		
UC 10097	DESTINATION KENT STATE: FIRST YEAR EXPERIENCE	1
Foreign Language (see Foreign Language College Requirement below)		8
Kent Core Composition		6
Kent Core Humanities and Fine Arts (minimum one course from each)		9
Kent Core Social Sciences (must be from two disciplines)		6
General Electives (total credit hours depends on earning 120 credit hours, including 42 upper-division credit hours)		7-8
<b>Concentrations</b>		
Choose from the following:		25-26
Conservation Biology		
Environmental Policy and Management		
Minimum Total Credit Hours:		120

<sup>1</sup> A minimum C grade must be earned to fulfill the writing-intensive requirement.

## Conservation Biology Concentration Requirements

Code	Title	Credit Hours
<b>Concentration Requirements (courses count in major GPA)</b>		
BSCI 40374	CONSERVATION BIOLOGY (ELR)	4
CHEM 20481	BASIC ORGANIC CHEMISTRY I	4
CHEM 20482	BASIC ORGANIC CHEMISTRY II	1-2
or CHEM 30475	ORGANIC CHEMISTRY LABORATORY I (ELR)	
Concentration Electives, choose from the following: <sup>1</sup>		16
ANTH 48835	PRIMATE ECOLOGY AND CONSERVATION	
BSCI 30105	CAREER PATHWAYS IN BIOLOGY	
BSCI 40199	SENIOR HONORS THESIS (ELR)	
BSCI 40191	SENIOR SEMINAR	
BSCI 40192	INTERNSHIP IN BIOLOGICAL SCIENCES (ELR)	
BSCI 40196	INDIVIDUAL INVESTIGATION (ELR)	
POL 10300	PUBLIC POLICY	
POL 40440	U.S. ENVIRONMENTAL POLITICS AND POLICIES	
Biology (BSCI) Upper-Division Electives (30000 or 40000 level) <sup>2</sup>		
Minimum Total Credit Hours:		25

<sup>1</sup> No more than 4 credit hours may be S/U graded. 1 credit hour must come from a BSCI course option.

<sup>2</sup> Students cannot select BSCI courses that will be used to meet the major or concentration requirements. Students should consult with their advisor to determine the most appropriate courses given their disciplinary interests and career aspirations.

## Environmental Policy and Management Concentration Requirements

Code	Title	Credit Hours
<b>Concentration Requirements (courses count in major GPA)</b>		
BSCI 40375	ENVIRONMENTAL BIOLOGY AND MANAGEMENT	4
Economics, Policies, Resources Electives, choose from the following:		6
ECON 22060	PRINCIPLES OF MICROECONOMICS (KSS)	
& ECON 32084	and ECONOMICS OF THE ENVIRONMENT	
POL 10300	PUBLIC POLICY	
& POL 40440	and U.S. ENVIRONMENTAL POLITICS AND POLICIES	
RPTM 26081	PRINCIPLES OF OUTDOOR RECREATION	
& RPTM 36082	and INTERPRETATION OF NATURAL AND CULTURAL RESOURCES	
RPTM 26081	PRINCIPLES OF OUTDOOR RECREATION	
& RPTM 36083	and ENVIRONMENTAL EDUCATION AND CONSERVATION	
Concentration Electives, choose from the following: <sup>1</sup>		16
BSCI 30105	CAREER PATHWAYS IN BIOLOGY	
BSCI 40199	SENIOR HONORS THESIS (ELR)	
BSCI 40191	SENIOR SEMINAR	
BSCI 40192	INTERNSHIP IN BIOLOGICAL SCIENCES (ELR)	
BSCI 40196	INDIVIDUAL INVESTIGATION (ELR)	
CHEM 20481	BASIC ORGANIC CHEMISTRY I	
CHEM 20482	BASIC ORGANIC CHEMISTRY II	
CHEM 30475	ORGANIC CHEMISTRY LABORATORY I (ELR)	
Biology (BSCI) Upper-Division Electives (30000 or 40000 level) <sup>2</sup>		
Minimum Total Credit Hours:		26

<sup>1</sup> No more than 4 credit hours may be S/U graded. 1 credit hour must come from a BSCI course option.

<sup>2</sup> Students cannot select BSCI courses that will be used to meet the major or concentration requirements. Students should consult with their advisor to determine the most appropriate courses given their disciplinary interests and career aspirations.

## GRADUATION REQUIREMENTS

Minimum Major GPA	Minimum Overall GPA
2.000	2.000

### Foreign Language College Requirement

- Students pursuing the Bachelor of Science degree in the College of Arts and Sciences must complete 8 credit hours of foreign language. <sup>1</sup>
- Minimum Elementary I and II of the same language

<sup>1</sup> All students with prior foreign language experience should take the foreign language placement test to determine the appropriate level at which to start. Some students may begin their university foreign language experience beyond the Elementary I level and will complete the requirement with fewer credit hours and fewer courses. This may be accomplished by: (1) passing a course beyond the Elementary I through Intermediate II level or (2) receiving credit through Credit by Exam (CBE), the College Level Examination Program (CLEP), the Advanced Placement (AP) exam or credit through the International Baccalaureate (IB) program; or (3) being designated a 'native speaker' of a non-English language (consult with the College of Arts and Sciences Advising Office for additional information) . When students complete the requirement with fewer than 8 credit hours and two courses, they will complete the remaining hours with general electives.

**The following Biological Sciences (BSCI) courses may NOT be used in the elective category for majors or minors in the Department of Biological Sciences:**

Code	Title	Credit Hours
BSCI 10001	HUMAN BIOLOGY (KBS)	3
BSCI 10002	LIFE ON PLANET EARTH (KBS)	3
BSCI 10003	LABORATORY EXPERIENCE IN BIOLOGY (KBS) (KLAB)	1
BSCI 10005	ANATOMY FOR VETERINARY TECHNICIANS	5
BSCI 11010	FOUNDATIONAL ANATOMY AND PHYSIOLOGY I (KBS) (KLAB)	3
BSCI 11020	FOUNDATIONAL ANATOMY AND PHYSIOLOGY II (KBS) (KLAB)	3
BSCI 16001	HORTICULTURAL BOTANY	3
BSCI 20019	BIOLOGICAL STRUCTURE AND FUNCTION	4
BSCI 20021	BASIC MICROBIOLOGY	3
BSCI 20022	BASIC MICROBIOLOGY LABORATORY	1
BSCI 21010	ANATOMY AND PHYSIOLOGY I (KBS) (KLAB)	4
BSCI 21020	ANATOMY AND PHYSIOLOGY II	4
BSCI 26002	ECOLOGICAL PRINCIPLES OF PEST MANAGEMENT	3
BSCI 26003	PLANT IDENTIFICATION AND SELECTION I	3
BSCI 26004	PLANT IDENTIFICATION AND SELECTION II	3
BSCI 30050	HUMAN GENETICS	3
BSCI 40020	BIOLOGY OF AGING	3

## Roadmaps

- Conservation Biology Concentration
- Environmental Policy and Management Concentration



**CONSERVATION BIOLOGY CONCENTRATION**

This roadmap is a recommended semester-by-semester plan of study for this major. However, courses designated as critical (!) must be completed in the semester listed to ensure a timely graduation.

<b>Semester One</b>		<b>Credits</b>
!	BSCI 10110 BIOLOGICAL DIVERSITY (KBS) (KLAB)	4
!	CHEM 10060 GENERAL CHEMISTRY I (KBS)	4
!	CHEM 10062 GENERAL CHEMISTRY I LABORATORY (KBS) (KLAB)	1
	UC 10097 DESTINATION KENT STATE: FIRST YEAR EXPERIENCE	1
	Kent Core Requirement	3
	Kent Core Requirement	3
Credit Hours		16
<b>Semester Two</b>		
!	BSCI 10120 BIOLOGICAL FOUNDATIONS (KBS) (KLAB)	4
!	CHEM 10061 GENERAL CHEMISTRY II (KBS)	4
!	CHEM 10063 GENERAL CHEMISTRY II LABORATORY (KBS) (KLAB)	1
	Kent Core Requirement	3
	General Electives	2
Credit Hours		14
<b>Semester Three</b>		
!	BSCI 30360 GENERAL ECOLOGY	4
	CHEM 20481 BASIC ORGANIC CHEMISTRY I	4
	CHEM 20482 BASIC ORGANIC CHEMISTRY II or or ORGANIC CHEMISTRY LABORATORY I CHEM 30475 (ELR)	0-2
	Kent Core Requirement	3
	Kent Core Requirement	3
Credit Hours		15
<b>Semester Four</b>		
!	BSCI 30156 ELEMENTS OF GENETICS	3
	CHEM 20482 BASIC ORGANIC CHEMISTRY II or or ORGANIC CHEMISTRY LABORATORY I CHEM 30475 (ELR)	0-2
	GEOG 49070 GEOGRAPHIC INFORMATION SCIENCE	4
!	MATH 12002 ANALYTIC GEOMETRY AND CALCULUS I (KMCR)	5
	Kent Core Requirement	3
Credit Hours		15
<b>Semester Five</b>		
	BSCI 40374 CONSERVATION BIOLOGY (ELR)	4
	GEOG 39002 STATISTICAL METHODS IN GEOGRAPHY or or SCIENTIFIC METHODS IN GEOLOGY GEOG 42035	3
	GEOG 11040 HOW THE EARTH WORKS (KBS)	3
	GEOG 11041 HOW THE EARTH WORKS LABORATORY (KBS) (KLAB)	1
	Foreign Language	4
Credit Hours		15
<b>Semester Six</b>		
	BSCI 40600 WRITING IN THE BIOLOGICAL SCIENCES (WIC)	1
	Concentration Elective	3
	Geography Elective	3
	Foreign Language	4
	Kent Core Requirement	3
Credit Hours		14

<b>Semester Seven</b>		
!	BSCI 40163 EVOLUTION	3
	Concentration Electives	4
	Geography Elective	3
	Geology Elective	3-4
	General Elective	3
Credit Hours		16
<b>Semester Eight</b>		
	Concentration Electives	9
	Geology Elective	3-4
	General Elective	3
Credit Hours		15
Minimum Total Credit Hours:		120

## Environmental Policy and Management Concentration

This roadmap is a recommended semester-by-semester plan of study for this major. However, courses designated as critical (!) must be completed in the semester listed to ensure a timely graduation.

Semester One		Credits
!	BSCI 10110 BIOLOGICAL DIVERSITY (KBS) (KLAB)	4
!	CHEM 10060 GENERAL CHEMISTRY I (KBS)	4
!	CHEM 10062 GENERAL CHEMISTRY I LABORATORY (KBS) (KLAB)	1
	UC 10097 DESTINATION KENT STATE: FIRST YEAR EXPERIENCE	1
	Kent Core Requirement	3
	Kent Core Requirement	3
Credit Hours		16
Semester Two		Credits
!	BSCI 10120 BIOLOGICAL FOUNDATIONS (KBS) (KLAB)	4
!	CHEM 10061 GENERAL CHEMISTRY II (KBS)	4
!	CHEM 10063 GENERAL CHEMISTRY II LABORATORY (KBS) (KLAB)	1
	Kent Core Requirement	3
	Kent Core Requirement	3
Credit Hours		15
Semester Three		Credits
!	BSCI 30360 GENERAL ECOLOGY	4
!	MATH 12002 ANALYTIC GEOMETRY AND CALCULUS I (KMCR)	5
	Economics, Policies, Resources Elective	3
	Kent Core Requirement	3
Credit Hours		15
Semester Four		Credits
!	BSCI 30156 ELEMENTS OF GENETICS	3
	BSCI 40375 ENVIRONMENTAL BIOLOGY AND MANAGEMENT	4
	GEOG 49070 GEOGRAPHIC INFORMATION SCIENCE	4
	Economics, Policies, Resources Elective	3
	General Elective	2
Credit Hours		16
Semester Five		Credits
	GEOL 11040 HOW THE EARTH WORKS (KBS)	3
	GEOL 11041 HOW THE EARTH WORKS LABORATORY (KBS) (KLAB)	1
	GEOG 39002 STATISTICAL METHODS IN GEOGRAPHY or or SCIENTIFIC METHODS IN GEOLOGY GEOL 42035	3
	Foreign Language	4
	Kent Core Requirement	3
Credit Hours		14
Semester Six		Credits
	BSCI 40600 WRITING IN THE BIOLOGICAL SCIENCES (WIC)	1
	Concentration Electives	4
	Geography Elective	3
	Foreign Language	4
	Kent Core Requirement	3
Credit Hours		15
Semester Seven		Credits
!	BSCI 40163 EVOLUTION	3
	Concentration Electives	6
	Geography Elective	3

Geology Elective	3-4
Credit Hours	15
Semester Eight	
Concentration Electives	6
Geology Elective	3-4
General Electives	5
Credit Hours	14
Minimum Total Credit Hours:	120

## Medical Technology - B.S.

### College of Arts and Sciences

Department of Biological Sciences

256 Cunningham Hall

Kent Campus

330-672-3613

kentbiology@kent.edu

www.kent.edu/biology

## Description

The Bachelor of Science degree in Medical Technology allows students to combine three years of study at Kent State with 12 months of professional training at an approved hospital. Medical technologists are trained to perform complex chemical, microscopic and microbiological procedures. Graduates are eligible to sit for the Board of Registry of the American Society of Clinical Pathologists Exam.

### Fully Offered At:

- Kent Campus

## Admission Requirements

The university affirmatively strives to provide educational opportunities and access to students with varied backgrounds, those with special talents and adult students who graduated from high school three or more years ago.

**Freshman Students on the Kent Campus:** The freshman admission policy on the Kent Campus is selective. Admission decisions are based upon the following: cumulative grade point average, ACT and/or SAT scores, strength of high school college preparatory curriculum and grade trends. The Admissions Office at the Kent Campus may defer the admission of students who do not meet admissions criteria but who demonstrate areas of promise for successful college study. Deferred applicants may begin their college coursework at one of seven regional campuses of Kent State University. For more information on admissions, including additional requirements for some academic programs, visit the admissions website for new freshmen.

**Freshman Students on the Regional Campuses:** Kent State campuses at Ashtabula, East Liverpool, Geauga, Salem, Stark, Trumbull and Tuscarawas, as well as the Regional Academic Center in Twinsburg, have open enrollment admission for students who hold a high school diploma, GED or equivalent.

### English Language Proficiency Requirements for International Students:

All international students must provide proof of English language proficiency (unless they meet specific exceptions) by earning a minimum 525 TOEFL score (71 on the Internet-based version), minimum 75

MELAB score, minimum 6.0 IELTS score or minimum 48 PTE score, or by completing the ESL level 112 Intensive Program. For more information on international admission, visit the Office of Global Education's admission website.

**Transfer, Transitioning and Former Students:** For more information about admission criteria for transfer, transitioning and former students, please visit the admissions website.

## University Requirements

All students in a bachelor's degree program at Kent State University must complete the following university requirements for graduation.

**NOTE:** University requirements may be fulfilled in this program by specific course requirements. Please see Program Requirements for details.

Destination Kent State: First Year Experience	1
Course is not required for students with 25 transfer credits, excluding College Credit Plus, or age 21+ at time of admission.	
Diversity Domestic/Global (DIVD/DIVG)	2 courses
Students must successfully complete one domestic and one global course, of which one must be from the Kent Core.	
Experiential Learning Requirement (ELR)	varies
Students must successfully complete one course or approved experience.	
Kent Core (see table below)	36-37
Writing-Intensive Course (WIC)	1 course
Students must earn a minimum C grade in the course.	
Upper-Division Requirement	39 (or 42)
Students must successfully complete 39 upper-division (numbered 30000 to 49999) credit hours to graduate. Students in a B.A. and/or B.S. degree in the College of Arts and Sciences must complete 42 upper-division credit hours.	
Total Credit Hour Requirement	120
Some bachelor's degrees require students to complete more than 120 credit hours.	

## Kent Core Requirements

Kent Core Composition (KCMP)	6
Kent Core Mathematics and Critical Reasoning (KMCR)	3
Kent Core Humanities and Fine Arts (KHUM/KFA) (min one course each)	9
Kent Core Social Sciences (KSS) (must be from two disciplines)	6
Kent Core Basic Sciences (KBS/KLAB) (must include one laboratory)	6-7
Kent Core Additional (KADL)	6
<b>Total Credit Hours:</b>	<b>36-37</b>

## Program Requirements

### Major Requirements

Code	Title	Credit Hours
<b>Major Requirements (courses count in major GPA)</b>		
BSCI 10110	BIOLOGICAL DIVERSITY (KBS) (KLAB)	4
BSCI 10120	BIOLOGICAL FOUNDATIONS (KBS) (KLAB)	4
BSCI 30130	HUMAN PHYSIOLOGY	3
BSCI 30050	HUMAN GENETICS	3
BSCI 30140	CELL BIOLOGY	4

BSCI 30171	GENERAL MICROBIOLOGY	4
BSCI 40174	IMMUNOLOGY	3
BSCI 40581	ANIMAL PARASITOLOGY	4
CHEM 10060	GENERAL CHEMISTRY I (KBS)	4
CHEM 10061	GENERAL CHEMISTRY II (KBS)	4
CHEM 10062	GENERAL CHEMISTRY I LABORATORY (KBS) (KLAB)	1
CHEM 10063	GENERAL CHEMISTRY II LABORATORY (KBS) (KLAB)	1
CHEM 20481	BASIC ORGANIC CHEMISTRY I	4
CHEM 30105	ANALYTICAL CHEMISTRY I	3
CHEM 30107	ANALYTICAL CHEMISTRY LABORATORY I (WIC) (min C grade) <sup>1</sup>	1
CHEM 30284	INTRODUCTORY BIOLOGICAL CHEMISTRY	4
CHEM 30301	INORGANIC CHEMISTRY I	2
CLS 49010	CLINICAL MICROBIOLOGY:THEORY <sup>2</sup>	4
CLS 49011	CLINICAL MICROBIOLOGY: APPLICATIONS	4
CLS 49012	CLINICAL IMMUNOLOGY:THEORY	1
CLS 49013	CLINICAL IMMUNOLOGY: APPLICATIONS	1
CLS 49014	CLINICAL MYCOLOGY: THEORY AND APPLICATIONS	1
CLS 49015	CLINICAL PARASITOLOGY: THEORY AND APPLICATIONS	1
CLS 49020	CLINICAL CHEMISTRY:THEORY	4
CLS 49021	CLINICAL CHEMISTRY: APPLICATIONS	3
CLS 49022	URINALYSIS:THEORY	1
CLS 49023	URINALYSIS:APPLICATIONS	1
CLS 49030	IMMUNOHEMATOLOGY:THEORY	2
CLS 49031	IMMUNOHEMATOLOGY:APPLICATIONS	2
CLS 49032	COAGULATION: THEORY AND APPLICATIONS	1
CLS 49033	CLINICAL HEMATOLOGY:THEORY	2
CLS 49034	CLINICAL HEMATOLOGY: APPLICATIONS	2
CLS 49040	TOPICS IN LABORATORY MANAGEMENT	1
CS 10062	PROGRAMMING FOR PROBLEM SOLVING IN SCIENCES	3-4

or EMAT 15310 CREATIVE CODING

MATH 11010	ALGEBRA FOR CALCULUS (KMCR)	3
MATH 11022	TRIGONOMETRY (KMCR)	3
MATH 30011	BASIC PROBABILITY AND STATISTICS	3

### Additional Requirements (courses do not count in major GPA)

UC 10097	DESTINATION KENT STATE: FIRST YEAR EXPERIENCE	1
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Kent Core Composition	6
Kent Core Humanities and Fine Arts (minimum one course from each)	9
Kent Core Social Sciences (must be from two disciplines)	6
Kent Core Additional (courses must be from Social Sciences category)	2
General Elective (total credit hours depends on earning 121 credit hours, including 42 upper-division credit hours)	1

Minimum Total Credit Hours: 121

<sup>1</sup> A minimum C grade must be earned to fulfill the writing-intensive requirement.

<sup>2</sup> Students who complete the required in-hospital clinical experience fulfill the experiential learning requirement.

## Graduation Requirements

Minimum Major GPA	Minimum Overall GPA
2.000	2.000

- Students are expected to consult with a medical technology advisor before registering for courses each semester.
- The fourth year clinical training is NOT guaranteed, but it is required to graduate with this major. Acceptance to clinical training is at the discretion of the clinical affiliates, is highly competitive and is based on multiple criteria. Typically, clinical affiliates will interview students with a minimum 3.000 major GPA and hospital experience.
- Students declared in the Medical Technology major are not required to meet the College of Arts and Sciences' foreign language requirement.

**The following Biological Sciences (BSCI) courses may NOT be used in the elective category for majors or minors in the Department of Biological Sciences:**

Code	Title	Credit Hours
BSCI 10001	HUMAN BIOLOGY (KBS)	3
BSCI 10002	LIFE ON PLANET EARTH (KBS)	3
BSCI 10003	LABORATORY EXPERIENCE IN BIOLOGY (KBS) (KLAB)	1
BSCI 10005	ANATOMY FOR VETERINARY TECHNICIANS	5
BSCI 11010	FOUNDATIONAL ANATOMY AND PHYSIOLOGY I (KBS) (KLAB)	3
BSCI 11020	FOUNDATIONAL ANATOMY AND PHYSIOLOGY II (KBS) (KLAB)	3
BSCI 16001	HORTICULTURAL BOTANY	3
BSCI 20019	BIOLOGICAL STRUCTURE AND FUNCTION	4
BSCI 20021	BASIC MICROBIOLOGY	3
BSCI 20022	BASIC MICROBIOLOGY LABORATORY	1
BSCI 21010	ANATOMY AND PHYSIOLOGY I (KBS) (KLAB)	4
BSCI 21020	ANATOMY AND PHYSIOLOGY II	4
BSCI 26002	ECOLOGICAL PRINCIPLES OF PEST MANAGEMENT	3
BSCI 26003	PLANT IDENTIFICATION AND SELECTION I	3
BSCI 26004	PLANT IDENTIFICATION AND SELECTION II	3
BSCI 40020	BIOLOGY OF AGING	3

## Roadmap

This roadmap is a recommended semester-by-semester plan of study for this major. However, courses designated as critical (!) must be completed in the semester listed to ensure a timely graduation.

Semester One		Credits
!	BSCI 10110 BIOLOGICAL DIVERSITY (KBS) (KLAB)	4
!	CHEM 10060 GENERAL CHEMISTRY I (KBS)	4
!	CHEM 10062 GENERAL CHEMISTRY I LABORATORY (KBS) (KLAB)	1
	UC 10097 DESTINATION KENT STATE: FIRST YEAR EXPERIENCE	1
	Kent Core Requirement	3
	Kent Core Requirement	3
	Credit Hours	16
Semester Two		
!	BSCI 10120 BIOLOGICAL FOUNDATIONS (KBS) (KLAB)	4
!	CHEM 10061 GENERAL CHEMISTRY II (KBS)	4
!	CHEM 10063 GENERAL CHEMISTRY II LABORATORY (KBS) (KLAB)	1
	MATH 11010 ALGEBRA FOR CALCULUS (KMCR)	3
	Kent Core Requirement	3
	Credit Hours	15
Semester Three		
!	BSCI 30140 CELL BIOLOGY	4
!	CHEM 20481 BASIC ORGANIC CHEMISTRY I	4
	Kent Core Requirement	3
	Kent Core Requirement	3
	Credit Hours	14
Semester Four		
!	BSCI 30130 HUMAN PHYSIOLOGY	3
!	BSCI 30050 HUMAN GENETICS	3
!	CHEM 30301 INORGANIC CHEMISTRY I	2
	MATH 11022 TRIGONOMETRY (KMCR)	3
	Kent Core Requirement	3
	General Elective	0-1
	Credit Hours	15
Semester Five		
!	BSCI 30171 GENERAL MICROBIOLOGY	4
!	BSCI 40581 ANIMAL PARASITOLOGY	4
!	CHEM 30105 ANALYTICAL CHEMISTRY I	3
!	CHEM 30107 ANALYTICAL CHEMISTRY LABORATORY I (WIC)	1
	MATH 30011 BASIC PROBABILITY AND STATISTICS	3
	Credit Hours	15
Semester Six		
!	BSCI 40174 IMMUNOLOGY	3
!	CHEM 30284 INTRODUCTORY BIOLOGICAL CHEMISTRY	4
	CS 10062 PROGRAMMING FOR PROBLEM SOLVING IN SCIENCES or EMAT 15310 or CREATIVE CODING	3-4
	Kent Core Requirement	3
	Kent Core Requirement	2-3
	Credit Hours	15
Semester Seven		
!	CLS 49010 CLINICAL MICROBIOLOGY:THEORY	4
!	CLS 49011 CLINICAL MICROBIOLOGY: APPLICATIONS	4
!	CLS 49012 CLINICAL IMMUNOLOGY:THEORY	1

!	CLS 49013 CLINICAL IMMUNOLOGY: APPLICATIONS	1
!	CLS 49014 CLINICAL MYCOLOGY: THEORY AND APPLICATIONS	1
!	CLS 49015 CLINICAL PARASITOLOGY: THEORY AND APPLICATIONS	1
!	CLS 49020 CLINICAL CHEMISTRY:THEORY	4
	Credit Hours	16
Semester Eight		
!	CLS 49021 CLINICAL CHEMISTRY: APPLICATIONS	3
!	CLS 49022 URINALYSIS:THEORY	1
!	CLS 49023 URINALYSIS:APPLICATIONS	1
!	CLS 49030 IMMUNOHEMATOLOGY:THEORY	2
!	CLS 49031 IMMUNOHEMATOLOGY:APPLICATIONS	2
!	CLS 49032 COAGULATION: THEORY AND APPLICATIONS	1
!	CLS 49033 CLINICAL HEMATOLOGY:THEORY	2
!	CLS 49034 CLINICAL HEMATOLOGY: APPLICATIONS	2
!	CLS 49040 TOPICS IN LABORATORY MANAGEMENT	1
	Credit Hours	15
	Minimum Total Credit Hours:	121

## Neuroscience - B.S.

### College of Arts and Sciences

Department of Biological Sciences  
256 Cunningham Hall  
Kent Campus  
330-672-3613  
kentbiology@kent.edu  
www.kent.edu/biology

### Department of Psychological Sciences

144 Kent Hall  
Kent Campus  
330-672-2166  
psych@kent.edu  
www.kent.edu/psychology

## Description

The Bachelor of Science degree in Neuroscience offers a broad-based study of the mechanisms of brain function from the cell and molecular level through cognition and behavior. This major is for students interested in medicine, other health professions, research and graduate studies in biology, neuroscience and psychology. The major will also prepare students for careers in industries, including biotechnology, pharmaceuticals, research administration and policy, science communication, teaching and other science-related businesses.

### Fully Offered At:

- Kent Campus

The university affirmatively strives to provide educational opportunities and access to students with varied backgrounds, those with special talents and adult students who graduated from high school three or more years ago.

**Freshman Students on the Kent Campus:** The freshman admission policy on the Kent Campus is selective. Admission decisions are based upon the following: cumulative grade point average, ACT and/or SAT scores, strength of high school college preparatory curriculum and



grade trends. The Admissions Office at the Kent Campus may defer the admission of students who do not meet admissions criteria but who demonstrate areas of promise for successful college study. Deferred applicants may begin their college coursework at one of seven regional campuses of Kent State University. For more information on admissions, including additional requirements for some academic programs, visit the admissions website for new freshmen.

**Freshman Students on the Regional Campuses:** Kent State campuses at Ashtabula, East Liverpool, Geauga, Salem, Stark, Trumbull and Tuscarawas, as well as the Regional Academic Center in Twinsburg, have open enrollment admission for students who hold a high school diploma, GED or equivalent.

**English Language Proficiency Requirements for International Students:** All international students must provide proof of English language proficiency (unless they meet specific exceptions) by earning a minimum 525 TOEFL score (71 on the Internet-based version), minimum 75 MELAB score, minimum 6.0 IELTS score or minimum 48 PTE score, or by completing the ESL level 112 Intensive Program. For more information on international admission, visit the Office of Global Education's admission website.

**Transfer, Transitioning and Former Students:** For more information about admission criteria for transfer, transitioning and former students, please visit the admissions website.

## Program Learning Outcomes

Graduates of this program will be able to:

- Demonstrate an understanding of fundamental principles of neuroscience.
- Acquire fundamental skills necessary for laboratory investigations into central nervous system function.
- Demonstrate an understanding of proper experimental design, data analysis and communication of research results.
- Demonstrate a greater knowledge and appreciation of the role neuroscience plays in societal issues, such as those related to neurological disorders, mental health, medicine and human and animal behavior.

## University Requirements

All students in a bachelor's degree program at Kent State University must complete the following university requirements for graduation.

**NOTE:** University requirements may be fulfilled in this program by specific course requirements. Please see Program Requirements for details.

Destination Kent State: First Year Experience	1
Course is not required for students with 25 transfer credits, excluding College Credit Plus, or age 21+ at time of admission.	
Diversity Domestic/Global (DIVD/DIVG)	2 courses
Students must successfully complete one domestic and one global course, of which one must be from the Kent Core.	
Experiential Learning Requirement (ELR)	varies
Students must successfully complete one course or approved experience.	
Kent Core (see table below)	36-37
Writing-Intensive Course (WIC)	1 course
Students must earn a minimum C grade in the course.	

Upper-Division Requirement	39 (or 42)
Students must successfully complete 39 upper-division (numbered 30000 to 49999) credit hours to graduate. Students in a B.A. and/or B.S. degree in the College of Arts and Sciences must complete 42 upper-division credit hours.	
Total Credit Hour Requirement	120
Some bachelor's degrees require students to complete more than 120 credit hours.	

## Kent Core Requirements

Kent Core Composition (KCMP)	6
Kent Core Mathematics and Critical Reasoning (KMCR)	3
Kent Core Humanities and Fine Arts (KHUM/KFA) (min one course each)	9
Kent Core Social Sciences (KSS) (must be from two disciplines)	6
Kent Core Basic Sciences (KBS/KLAB) (must include one laboratory)	6-7
Kent Core Additional (KADL)	6
<b>Total Credit Hours:</b>	<b>36-37</b>

## Program Requirements

### Major Requirements

Code	Title	Credit Hours
<b>Major Requirements (courses count in major GPA)</b>		
BSCI 10120	BIOLOGICAL FOUNDATIONS (KBS) (KLAB)	4
BSCI 30140	CELL BIOLOGY	4
BSCI 30156	ELEMENTS OF GENETICS	3
BSCI 40600	WRITING IN THE BIOLOGICAL SCIENCES (WIC) <sup>1</sup>	1
	or PSYC 41980 RESEARCH WRITING IN PSYCHOLOGY (WIC)	
	or PSYC 41990 WRITING IN PSYCHOLOGY (WIC)	
CHEM 10060	GENERAL CHEMISTRY I (KBS)	4
CHEM 10061	GENERAL CHEMISTRY II (KBS)	4
CHEM 10062	GENERAL CHEMISTRY I LABORATORY (KBS) (KLAB)	1
CHEM 10063	GENERAL CHEMISTRY II LABORATORY (KBS) (KLAB)	1
MATH 11010	ALGEBRA FOR CALCULUS (KMCR)	3
NEUR 10100	SEMINAR IN NEUROSCIENCE	1
NEUR 30100	NEUROSCIENCE I	3
NEUR 30200	NEUROSCIENCE II	3
NEUR 30300	EXPERIMENTAL METHODS IN NEUROSCIENCE	1
PSYC 11762	GENERAL PSYCHOLOGY (DIVD) (KSS)	3
PSYC 21621	QUANTITATIVE METHODS IN PSYCHOLOGY I	3
PSYC 31574	RESEARCH METHODS IN PSYCHOLOGY (ELR)	3
Neuroscience Electives, choose from the following:		27
BSCI 40147	DEVELOPMENTAL NEUROBIOLOGY	
BSCI 40152	MOLECULAR MECHANISMS OF DISEASE: NEUROLOGICAL DISORDERS	
BSCI 40157	NEUROBIOLOGY OF DRUG ADDICTION	
BSCI 40158	MOLECULAR BIOLOGY	
BSCI 40159	MOLECULAR BIOLOGY LABORATORY (ELR) (WIC)	
BSCI 40431	NEUROENDOCRINOLOGY	
BSCI 40432	ENDOCRINOLOGY	
BSCI 40450	BIOLOGICAL CLOCKS	
BSCI 40460	ADVANCED HUMAN PHYSIOLOGY	

BSCI 40462	ADVANCED HUMAN PHYSIOLOGY: READINGS AND CASE STUDIES
BSCI 40515	ANIMAL BEHAVIOR
BSCI 40519	HORMONES AND BEHAVIOR
NEUR 40192	INTERNSHIP IN NEUROSCIENCE (ELR) <sup>2</sup>
NEUR 40195	SPECIAL TOPICS IN NEUROSCIENCE
NEUR 40196	INDIVIDUAL INVESTIGATION IN NEUROSCIENCE
PSYC 31634	ANIMAL COGNITION
PSYC 40111	ABNORMAL PSYCHOLOGY
PSYC 40383	INTRODUCTION TO CLINICAL PSYCHOLOGY
PSYC 40446	COGNITIVE NEUROSCIENCE
PSYC 41043	BASIC LEARNING PROCESSES
PSYC 43001	CLINICAL NEUROANATOMY
PSYC 43002	CURRENT TECHNIQUES IN BEHAVIORAL NEUROSCIENCE
PSYC 43003	NEURAL MECHANISMS OF LEARNING AND MEMORY
PSYC 47387	NEUROPSYCHOPHARMACOLOGY

**Additional Requirements (courses do not count in major GPA)**

UC 10097	DESTINATION KENT STATE: FIRST YEAR EXPERIENCE	1
Foreign Language (see Foreign Language College Requirement below)		8
Kent Core Composition		6
Kent Core Humanities and Fine Arts (minimum one course from each)		9
Kent Core Social Sciences (must be from two disciplines)		3
General Electives (total credit hours depends on earning 120 credit hours, including 42 upper-division credit hours)		24
Minimum Total Credit Hours:		120

<sup>1</sup> A minimum C grade must be earned to fulfill the writing-intensive requirement.

<sup>2</sup> A maximum 6 credit hours of NEUR 40192 may count toward the major.

## Graduation Requirements

Minimum Major GPA	Minimum Overall GPA
2.000	2.000

### Foreign Language College Requirement

- Students pursuing the Bachelor of Science degree in the College of Arts and Sciences must complete 8 credit hours of foreign language.<sup>1</sup>
- Minimum Elementary I and II of the same language

<sup>1</sup> All students with prior foreign language experience should take the foreign language placement test to determine the appropriate level at which to start. Some students may begin their university foreign language experience beyond the Elementary I level and will complete the requirement with fewer credit hours and fewer courses. This may be accomplished by: (1) passing a course beyond the Elementary I through Intermediate II level or (2) receiving credit through Credit by Exam (CBE), the College Level Examination Program (CLEP), the Advanced Placement (AP) exam or credit through the International Baccalaureate (IB) program; or (3) being designated a 'native speaker' of a non-English language (consult with the College of Arts and Sciences Advising Office for additional information). When students complete the requirement with fewer than 8 credit hours and two courses, they will complete the remaining hours with general electives.

## Roadmap

This roadmap is a recommended semester-by-semester plan of study for this major. However, courses designated as critical (!) must be completed in the semester listed to ensure a timely graduation.

Semester One		Credits
BSCI 10120	BIOLOGICAL FOUNDATIONS (KBS) (KLAB)	4
CHEM 10060	GENERAL CHEMISTRY I (KBS)	4
CHEM 10062	GENERAL CHEMISTRY I LABORATORY (KBS) (KLAB)	1
MATH 11010	ALGEBRA FOR CALCULUS (KMCR)	3
NEUR 10100	SEMINAR IN NEUROSCIENCE	1
UC 10097	DESTINATION KENT STATE: FIRST YEAR EXPERIENCE	1
Credit Hours		14
Semester Two		
BSCI 30140	CELL BIOLOGY	4
CHEM 10061	GENERAL CHEMISTRY II (KBS)	4
CHEM 10063	GENERAL CHEMISTRY II LABORATORY (KBS) (KLAB)	1
PSYC 11762	GENERAL PSYCHOLOGY (DIVD) (KSS)	3
Kent Core Requirement		3
Credit Hours		15
Semester Three		
BSCI 30156	ELEMENTS OF GENETICS	3
NEUR 30100	NEUROSCIENCE I	3
PSYC 21621	QUANTITATIVE METHODS IN PSYCHOLOGY I	3
Foreign Language Requirement		4
Kent Core Requirement		3
Credit Hours		16
Semester Four		
NEUR 30200	NEUROSCIENCE II	3
NEUR 30300	EXPERIMENTAL METHODS IN NEUROSCIENCE	1
PSYC 31574	RESEARCH METHODS IN PSYCHOLOGY (ELR)	3
Foreign Language Requirement		4
Kent Core Requirement		3
Credit Hours		14
Semester Five		
Neuroscience Electives		9
Kent Core Requirement		3
Kent Core Requirement		3
Credit Hours		15

**Semester Six**

BSCI 40600	WRITING IN THE BIOLOGICAL SCIENCES (WIC)	1
or	or RESEARCH WRITING IN PSYCHOLOGY (WIC)	
PSYC 41980	(WIC)	
or	or WRITING IN PSYCHOLOGY (WIC)	
PSYC 41990		
Neuroscience Electives		9
Kent Core Requirement		3
General Elective		3
Credit Hours		16

**Semester Seven**

Neuroscience Electives		6
General Electives		9
Credit Hours		15

**Semester Eight**

Neuroscience Elective		3
General Electives		12
Credit Hours		15
Minimum Total Credit Hours:		120

## Zoology - B.S.

**College of Arts and Sciences**

Department of Biological Sciences

256 Cunningham Hall

Kent Campus

330-672-3613

kentbiology@kent.edu

www.kent.edu/biology

### Description

The Bachelor of Science degree in Zoology offers a modern and integrative study of animals. Students learn about individual animals, as well as populations of animals across all levels of biological organization, from genes to ecosystems. The program also focuses on animal behavior and physiology, as well as how animals evolve, contribute to biodiversity and interact with each other and their environment.

Students may seek employment immediately after graduation or continue their education in graduate or professional programs. Those entering the workforce may go on to work for national or local parks, zoos/aquaria, museums, animal research facilities, wildlife rehabilitation centers, veterinarian offices or humane societies. The Department of Biological Sciences has several mechanisms to help students prepare for their future careers.

**Fully Offered At:**

- Kent Campus

### Admission Requirements

The university affirmatively strives to provide educational opportunities and access to students with varied backgrounds, those with special talents and adult students who graduated from high school three or more years ago.

**Freshman Students on the Kent Campus:** The freshman admission policy on the Kent Campus is selective. Admission decisions are based upon the following: cumulative grade point average, ACT and/or SAT

scores, strength of high school college preparatory curriculum and grade trends. The Admissions Office at the Kent Campus may defer the admission of students who do not meet admissions criteria but who demonstrate areas of promise for successful college study. Deferred applicants may begin their college coursework at one of seven regional campuses of Kent State University. For more information on admissions, including additional requirements for some academic programs, visit the admissions website for new freshmen.

**Freshman Students on the Regional Campuses:** Kent State campuses at Ashtabula, East Liverpool, Geauga, Salem, Stark, Trumbull and Tuscarawas, as well as the Regional Academic Center in Twinsburg, have open enrollment admission for students who hold a high school diploma, GED or equivalent.

**English Language Proficiency Requirements for International Students:**

All international students must provide proof of English language proficiency (unless they meet specific exceptions) by earning a minimum 525 TOEFL score (71 on the Internet-based version), minimum 75 MELAB score, minimum 6.0 IELTS score or minimum 48 PTE score, or by completing the ESL level 112 Intensive Program. For more information on international admission, visit the Office of Global Education's admission website.

**Transfer, Transitioning and Former Students:** For more information about admission criteria for transfer, transitioning and former students, please visit the admissions website.

### Program Learning Outcomes

Graduates of this program will be able to:

1. Demonstrate an understanding of fundamental biological principles as outlined in specific courses.
2. Acquire fundamental skills necessary for laboratory and field investigations.
3. Demonstrate an understanding of proper experimental design, analysis of biological data and communication of research results.
4. Demonstrate a greater knowledge and appreciation of the role that biology plays in societal issues, such as those related to the environment, biodiversity, ethics, human health and disease.

### University Requirements

All students in a bachelor's degree program at Kent State University must complete the following university requirements for graduation.

**NOTE:** University requirements may be fulfilled in this program by specific course requirements. Please see Program Requirements for details.

Destination Kent State: First Year Experience	1
Course is not required for students with 25 transfer credits, excluding College Credit Plus, or age 21+ at time of admission.	
Diversity Domestic/Global (DIVD/DIVG)	2 courses
Students must successfully complete one domestic and one global course, of which one must be from the Kent Core.	
Experiential Learning Requirement (ELR)	varies
Students must successfully complete one course or approved experience.	
Kent Core (see table below)	36-37
Writing-Intensive Course (WIC)	1 course
Students must earn a minimum C grade in the course.	

Upper-Division Requirement	39 (or 42)
Students must successfully complete 39 upper-division (numbered 30000 to 49999) credit hours to graduate. Students in a B.A. and/or B.S. degree in the College of Arts and Sciences must complete 42 upper-division credit hours.	
Total Credit Hour Requirement	120
Some bachelor's degrees require students to complete more than 120 credit hours.	

## Kent Core Requirements

Kent Core Composition (KCOMP)	6
Kent Core Mathematics and Critical Reasoning (KMCR)	3
Kent Core Humanities and Fine Arts (KHUM/KFA) (min one course each)	9
Kent Core Social Sciences (KSS) (must be from two disciplines)	6
Kent Core Basic Sciences (KBS/KLAB) (must include one laboratory)	6-7
Kent Core Additional (KADL)	6
<b>Total Credit Hours:</b>	<b>36-37</b>

## Program Requirements

### Major Requirements

Code	Title	Credit Hours
<b>Major Requirements (courses count in major GPA)</b>		
BSCI 10110	BIOLOGICAL DIVERSITY (KBS) (KLAB)	4
BSCI 10120	BIOLOGICAL FOUNDATIONS (KBS) (KLAB)	4
BSCI 30156	ELEMENTS OF GENETICS	3
BSCI 40163	EVOLUTION	3
BSCI 40600	WRITING IN THE BIOLOGICAL SCIENCES (WIC) <sup>1</sup>	1
CHEM 10060	GENERAL CHEMISTRY I (KBS)	4
CHEM 10061	GENERAL CHEMISTRY II (KBS)	4
CHEM 10062	GENERAL CHEMISTRY I LABORATORY (KBS) (KLAB)	1
CHEM 10063	GENERAL CHEMISTRY II LABORATORY (KBS) (KLAB)	1
CHEM 20481	BASIC ORGANIC CHEMISTRY I	3-4
or CHEM 30481	ORGANIC CHEMISTRY I	
CHEM 20482	BASIC ORGANIC CHEMISTRY II	1-3
or CHEM 30475	ORGANIC CHEMISTRY LABORATORY I (ELR)	
or CHEM 30482	ORGANIC CHEMISTRY II	
MATH 12002	ANALYTIC GEOMETRY AND CALCULUS I (KMCR)	5
MATH 12003	ANALYTIC GEOMETRY AND CALCULUS II	3-5
or MATH 30011	BASIC PROBABILITY AND STATISTICS	
Zoology Core Electives, choose from the following:		11-12
BSCI 30140	CELL BIOLOGY	
BSCI 30171	GENERAL MICROBIOLOGY	
BSCI 30360	GENERAL ECOLOGY	
BSCI 30518	VERTEBRATE ANATOMY	
BSCI 30519	VERTEBRATE EMBRYOLOGY AND DEVELOPMENTAL ANATOMY	
BSCI 30560	INVERTEBRATE ZOOLOGY	
BSCI 30580	ENTOMOLOGY	
BSCI 40430	ANIMAL PHYSIOLOGY	
BSCI 40433	MAMMALIAN PHYSIOLOGY I	
BSCI 40434	MAMMALIAN PHYSIOLOGY II	

BSCI 40515	ANIMAL BEHAVIOR	
BSCI 40556	VERTEBRATE ZOOLOGY	
BSCI 40581	ANIMAL PARASITOLOGY	
Biology, Chemistry, Physics Electives, choose from the following: <sup>2</sup>		26-27
Biology (BSCI) Electives <sup>2</sup>		
CHEM 20482	BASIC ORGANIC CHEMISTRY II	
or CHEM 30482	ORGANIC CHEMISTRY II	
CHEM 30475	ORGANIC CHEMISTRY LABORATORY I (ELR)	
CHEM 30476	ORGANIC CHEMISTRY LABORATORY II	
PHY 13001	GENERAL COLLEGE PHYSICS I (KBS)	
& PHY 13021	and GENERAL COLLEGE PHYSICS LABORATORY I (KBS) (KLAB)	
or PHY 23101	GENERAL UNIVERSITY PHYSICS I (KBS) (KLAB)	
PHY 13002	GENERAL COLLEGE PHYSICS II (KBS)	
& PHY 13022	and GENERAL COLLEGE PHYSICS LABORATORY II (KBS) (KLAB)	
or PHY 23102	GENERAL UNIVERSITY PHYSICS II (KBS) (KLAB)	

<b>Additional Requirements (courses do not count in major GPA)</b>		
UC 10097	DESTINATION KENT STATE: FIRST YEAR EXPERIENCE	1
Foreign Language (see Foreign Language College Requirement below)		
		8
	Kent Core Composition	6
	Kent Core Humanities and Fine Arts (minimum one from each)	9
	Kent Core Social Sciences (must be from two disciplines)	6
	General Electives (total credit hours depends on earning 120 credit hours, including 42 upper-division credit hours)	16
Minimum Total Credit Hours:		120

<sup>1</sup> A minimum C grade must be earned to fulfill the writing-intensive requirement.

<sup>2</sup> Students should select their electives in consultation with an advisor. To fulfill this elective list, students must select a minimum of one from the following courses: BSCI 30105, BSCI 40191, BSCI 40192, BSCI 40196, BSCI 40199. However, they may only select a maximum of 6 credit hours of any combination of these courses (with no more than 4 credit hours S/U graded). Enrollment in these course must be determined with a faculty advisor.

## Graduation Requirements

Minimum Major GPA	Minimum Overall GPA
2.000	2.000

The following Biological Sciences (BSCI) courses may NOT be used in the elective category for majors or minors in the Department of Biological Sciences:

Code	Title	Credit Hours
BSCI 10001	HUMAN BIOLOGY (KBS)	3
BSCI 10002	LIFE ON PLANET EARTH (KBS)	3
BSCI 10003	LABORATORY EXPERIENCE IN BIOLOGY (KBS) (KLAB)	1
BSCI 10005	ANATOMY FOR VETERINARY TECHNICIANS	5
BSCI 11010	FOUNDATIONAL ANATOMY AND PHYSIOLOGY I (KBS) (KLAB)	3
BSCI 11020	FOUNDATIONAL ANATOMY AND PHYSIOLOGY II (KBS) (KLAB)	3
BSCI 16001	HORTICULTURAL BOTANY	3
BSCI 20019	BIOLOGICAL STRUCTURE AND FUNCTION	4

BSCI 20021	BASIC MICROBIOLOGY	3
BSCI 20022	BASIC MICROBIOLOGY LABORATORY	1
BSCI 21010	ANATOMY AND PHYSIOLOGY I (KBS) (KLAB)	4
BSCI 21020	ANATOMY AND PHYSIOLOGY II	4
BSCI 26002	ECOLOGICAL PRINCIPLES OF PEST MANAGEMENT	3
BSCI 26003	PLANT IDENTIFICATION AND SELECTION I	3
BSCI 26004	PLANT IDENTIFICATION AND SELECTION II	3
BSCI 30050	HUMAN GENETICS	3
BSCI 40020	BIOLOGY OF AGING	3



## Roadmap

This roadmap is a recommended semester-by-semester plan of study for this major. However, courses designated as critical (!) must be completed in the semester listed to ensure a timely graduation.

Semester One		Credits
!	BSCI 10110 BIOLOGICAL DIVERSITY (KBS) (KLAB)	4
!	CHEM 10060 GENERAL CHEMISTRY I (KBS)	4
!	CHEM 10062 GENERAL CHEMISTRY I LABORATORY (KBS) (KLAB)	1
	UC 10097 DESTINATION KENT STATE: FIRST YEAR EXPERIENCE	1
	Kent Core Requirement	3
	Kent Core Requirement	3
Credit Hours		16
Semester Two		Credits
!	BSCI 10120 BIOLOGICAL FOUNDATIONS (KBS) (KLAB)	4
!	CHEM 10061 GENERAL CHEMISTRY II (KBS)	4
!	CHEM 10063 GENERAL CHEMISTRY II LABORATORY (KBS) (KLAB)	1
	Kent Core Requirement	3
	Kent Core Requirement	3
Credit Hours		15
Semester Three		Credits
!	BSCI 30156 ELEMENTS OF GENETICS	3
!	CHEM 20481 BASIC ORGANIC CHEMISTRY I or ORGANIC CHEMISTRY I CHEM 30481	3-4
	CHEM 20482 BASIC ORGANIC CHEMISTRY II or ORGANIC CHEMISTRY LABORATORY I CHEM 30475 (ELR) or ORGANIC CHEMISTRY II CHEM 30482	0-3
!	MATH 12002 ANALYTIC GEOMETRY AND CALCULUS I (KMCR)	5
	Kent Core Requirement	3
Credit Hours		15
Semester Four		Credits
	CHEM 20482 BASIC ORGANIC CHEMISTRY II or ORGANIC CHEMISTRY LABORATORY I CHEM 30475 (ELR) or ORGANIC CHEMISTRY II CHEM 30482	0-3
!	MATH 12003 ANALYTIC GEOMETRY AND CALCULUS II or BASIC PROBABILITY AND STATISTICS MATH 30011	3-5
	Zoology Core Electives	7
	Kent Core Requirement	3
Credit Hours		13
Semester Five		Credits
	BSCI 40600 WRITING IN THE BIOLOGICAL SCIENCES (WIC)	1
	Foreign Language	4
	Biology, Chemistry, Physics Electives	7
	Zoology Core Electives	4
Credit Hours		16
Semester Six		Credits
	Foreign Language	4
	Biology, Chemistry, Physics Electives	9
	Kent Core Requirement	3
Credit Hours		16

### Semester Seven

BSCI 40163 EVOLUTION	3
Biology, Chemistry, Physics Electives	7
General Electives	3
Credit Hours	13

### Semester Eight

Biology, Chemistry, Physics Electives	3
General Electives	13
Credit Hours	16
Minimum Total Credit Hours:	120

## Department of Chemistry and Biochemistry

### College of Arts and Sciences

Department of Chemistry and Biochemistry  
214 Williams Hall  
Kent Campus  
330-672-2032  
chem@kent.edu  
www.kent.edu/chemistry

## Undergraduate Programs

- Biotechnology - B.S.
- Chemistry - B.A.
- Chemistry - B.S.

## Minors

- Chemistry

## Graduate Programs

- Chemistry - M.A.
- Chemistry - M.S.
- Chemistry - Ph.D.

## Department of Chemistry and Biochemistry Faculty

- Abeyirigunawardena, Sanjaya C. (2015), Assistant Professor, Ph.D., Wayne State University, 2008
- Abraham, Ann C. (2004), Associate Professor, Ph.D., University of Pittsburgh, 1983
- Basu, Soumitra (2005), Professor, Ph.D., Thomas Jefferson University, 1997
- Bowers, David J. (2013), Associate Professor
- Bunge, Scott D. (2004), Associate Professor, Ph.D., Georgia Institute of Technology, 2001
- Burns, Andrew (1994), Professor, Ph.D., Brown University, 1990
- Cubon-Bell, Valerie A. (2010), Associate Professor, Ph.D., Princeton University, 2008
- Datta, Bansidhar (2000), Associate Professor, University of Nebraska-Lincoln, 1989
- Ding, Tang (2006), Associate Professor, Ph.D., University of Akron, 2006
- Dunietz, Barry (2012), Associate Professor

- Earley, Clarke W. (1995), Associate Professor, Ph.D., University of Illinois-Urbana, 1987
- Ekanayake, Sujeevani K. (2012), Associate Professor
- Fenk, Christopher J. (1990), Professor & Interim Chair, Ph.D., University of Pittsburgh, 1987
- Fouad, Farid S. (2008), Associate Professor, Ph.D., Northeastern University, 2003
- Friedrich, Dirk (2016), Assistant Professor, Ph.D., Universität Leipzig, 2013
- Hegmann, Torsten (2011), Professor & Director, Ph.D., Martin Luther University, 2001
- Jaroniec, Mietek (1988), Professor, D.S., Marie Curie Skłodowska University
- Konar, Arkaprabha (2019), Assistant Professor, 2019, Michigan State University, 2015
- Leslie, Margaret R. (2004), Professor, Ph.D., Rhodes University, 1995
- Mao, Hanbin (2005), Professor, Ph.D., Texas A&M University, 2003
- Mighion, Jeffrey D. (2017), Assistant Professor, Ph.D., Princeton University, 2014
- Motry, Douglas H. (1996), Associate Professor, Ph.D., Michigan State University, 1996
- Pal Chaudhuri, Urmila (2008), Associate Professor, Ph.D., Indian Institute of Technology Madras, 2004
- Palfy-Muhoray, Peter (1987), Professor
- Perera, Roshinee S. (2013), Assistant Professor, Ph.D., University of Akron, 2011
- Sampson, Paul (1985), Professor, Ph.D., University of Birmingham, 1983
- Seed, Alexander J. (1996), Associate Professor
- Shen, Hao (2018), Assistant Professor, Ph.D., Cornell University, 2015
- Stroup, Diane (2000), Associate Professor, Ph.D., The Ohio State University, 1992
- Subramanian, Pritha (2006), Associate Professor, Ph.D., Kent State University, 2013
- Tandon, Santokh S. (2004), Professor, Ph.D., Guru Nanak Dev University, 1979
- Tubergen, Michael J. (1995), Professor, Ph.D., University of Chicago, 1991
- Twieg, Robert J. (1997), Professor, Ph.D., University of California, Berkeley
- Wang, Zhiqiang (2007), Professor
- Zheng, Yaorong (2015), Assistant Professor, Ph.D., University of Utah, 2011

## Chemistry (CHEM)

### **CHEM 00020 INTRODUCTION TO CHEMISTRY 2 Credit Hours**

Problem-based introduction to the fundamentals of chemistry including significant figures, unit conversions, measurement, structure of matter, energy, composition of matter, atomic structure, the periodic table, introduction to bonding, and the formulas and names of both ionic and covalent compounds. Course does not count toward graduation.

**Prerequisite:** Math ACT score of 18; or ALEKS math assessment score of 45; or minimum C grade in any MATH course.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

### **CHEM 10030 CHEMISTRY IN OUR WORLD (KBS) 3 Credit Hours**

A course for non-science majors that utilizes environmental and consumer topics to introduce chemical principles and develop critical-thinking skills.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Kent Core Basic Sciences, Transfer Module Natural Sciences

### **CHEM 10031 CHEMISTRY IN OUR WORLD LABORATORY (KBS) (KLAB) 1 Credit Hour**

Discovery-based experiments to introduce chemical principles and develop critical-thinking skills. A course for non-science majors; includes chemistry that is related to environmental and consumer issues.

**Pre/corequisite:** CHEM 10030.

**Schedule Type:** Laboratory

**Contact Hours:** 3 lab

**Grade Mode:** Standard Letter

**Attributes:** Kent Core Basic Sciences, Kent Core Basic Sciences Lab, Transfer Module Natural Sciences

### **CHEM 10050 FUNDAMENTALS OF CHEMISTRY (KBS) 3 Credit Hours**

Basic concepts of chemistry (including atomic structure, chemical bonding and reactions) necessary for courses in elementary organic chemistry and physiological chemistry. Students may only receive credit toward graduation for one of the following courses: CHEM 10050; or CHEM 10060 and 10061; or CHEM 10970 and 10971.

**Prerequisite:** Minimum 16 ACT math score or MATH 10675 or MATH 11009 or MATH 11010 or MATH 11012 or MATH 12002 or MATH 12011 or MATH 12021.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Kent Core Basic Sciences, Transfer Module Natural Sciences

### **CHEM 10052 INTRODUCTION TO ORGANIC CHEMISTRY (KBS) 2 Credit Hours**

Chemistry of organic and biological molecules necessary for the study of physiological chemistry. Students may only receive credit toward graduation for one of the following courses: CHEM 10052; or CHEM 20481 and 20482; or CHEM 30481 and 30482.

**Prerequisite:** CHEM 10050 or 10060.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**Attributes:** Kent Core Basic Sciences, Transfer Module Natural Sciences

### **CHEM 10053 INORGANIC AND ORGANIC LABORATORY (KBS) (KLAB) 1 Credit Hour**

Laboratory with experiments covering material from CHEM 10050 and 10052. Students may only receive credit toward graduation for one of the following courses: CHEM 10053; or CHEM 10062 and 10063.

**Prerequisite:** CHEM 10050.

**Corequisite:** CHEM 10052.

**Schedule Type:** Laboratory

**Contact Hours:** 3 lab

**Grade Mode:** Standard Letter

**Attributes:** Kent Core Basic Sciences, Kent Core Basic Sciences Lab, Transfer Module Natural Sciences

**CHEM 10055 MOLECULES OF LIFE (KBS) 3 Credit Hours**

An integrated introduction to molecular systems and their participation in the processes of life.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Kent Core Basic Sciences

**CHEM 10060 GENERAL CHEMISTRY I (KBS) 4 Credit Hours**

Chemistry for science majors, emphasizing stoichiometry, introduction to chemical reactions, thermochemistry, atomic structure, periodicity, molecular structure and chemical bonding. Students who register for this course must successfully complete the departmentally-approved placement assessment prior to the start of the term. Students who do not complete the placement assessment and associated modules will be deregistered. Students will be informed of the requirement by the Department of Chemistry and Biochemistry. Students may only receive credit toward graduation for one of the following courses: CHEM 10050 or CHEM 10055 or CHEM 10060 or CHEM 10970. **Prerequisite:** Minimum 55 ALEKS math score; or minimum 22 ACT math score; or minimum 530 SAT math score; or minimum C grade in MATH 10675; or minimum C grade in any course MATH 11009 to MATH 49999 (MATH 14001 and MATH 14002 are not acceptable)

**Schedule Type:** Lecture

**Contact Hours:** 4 lecture

**Grade Mode:** Standard Letter

**Attributes:** Kent Core Basic Sciences, TAG Science

**CHEM 10061 GENERAL CHEMISTRY II (KBS) 4 Credit Hours**

Continuation of CHEM 10060, emphasizing intermolecular forces, properties of mixtures, main group chemistry, kinetics, equilibrium, acid-base chemistry, thermodynamics and electrochemistry. Students may only receive credit toward graduation for one of the following courses: CHEM 10050 or CHEM 10055 or CHEM 10061 or CHEM 10971.

**Prerequisite:** Minimum C grade in either CHEM 10060 or CHEM 10970.

**Schedule Type:** Lecture

**Contact Hours:** 4 lecture

**Grade Mode:** Standard Letter

**Attributes:** Kent Core Basic Sciences, TAG Science

**CHEM 10062 GENERAL CHEMISTRY I LABORATORY (KBS) (KLAB) 1 Credit Hour**

Laboratory covering pertinent aspects of CHEM 10060. Three hours weekly. Students may only receive credit toward graduation for one of the following courses: CHEM 10053 or CHEM 10062.

**Pre/corequisite:** CHEM 10060 or CHEM 10970.

**Schedule Type:** Laboratory

**Contact Hours:** 3 lab

**Grade Mode:** Standard Letter

**Attributes:** Kent Core Basic Sciences, Kent Core Basic Sciences Lab, TAG Science

**CHEM 10063 GENERAL CHEMISTRY II LABORATORY (KBS) (KLAB) 1 Credit Hour**

Laboratory covering pertinent aspects of CHEM 10061, including qualitative analysis. Students may only receive credit toward graduation for one of the following courses: CHEM 10053 or CHEM 10063.

**Prerequisite:** CHEM 10062.

**Pre/corequisite:** CHEM 10061 or CHEM 10971.

**Schedule Type:** Laboratory

**Contact Hours:** 3 lab

**Grade Mode:** Standard Letter

**Attributes:** Kent Core Basic Sciences, Kent Core Basic Sciences Lab, TAG Science

**CHEM 10970 HONORS GENERAL CHEMISTRY I (KBS) 4 Credit Hours**

Rigorous general chemistry course for qualified students. Stoichiometry, equilibrium, thermochemistry, atomic structure and chemical bonding, descriptive inorganic and nuclear chemistry.

**Prerequisite:** Special approval.

**Schedule Type:** Lecture

**Contact Hours:** 4 lecture

**Grade Mode:** Standard Letter

**Attributes:** Kent Core Basic Sciences

**CHEM 10971 HONORS GENERAL CHEMISTRY II (KBS) 4 Credit Hours**

A continuation of CHEM 10970. Topics include properties of mixtures, properties of the elements, periodic patterns, organic compounds, kinetics, equilibrium, thermodynamics and electrochemistry.

**Prerequisite:** Minimum C grade in CHEM 10970.

**Schedule Type:** Lecture

**Contact Hours:** 4 lecture

**Grade Mode:** Standard Letter

**Attributes:** Kent Core Basic Sciences

**CHEM 20050 CAREER PATHWAYS IN CHEMISTRY 1 Credit Hour**

Designed to introduce students to the wide range of career pathways available in chemistry. Students will learn different strategies for identifying and pursuing career opportunities, and will develop their communication skills through writing assignments and oral presentations.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 1 lecture

**Grade Mode:** Satisfactory/Unsatisfactory

**CHEM 20095 SPECIAL TOPICS 1-3 Credit Hours**

(Repeatable for credit) Selected topics in chemistry.

**Prerequisite:** Special approval.

**Schedule Type:** Lecture

**Contact Hours:** 1-3 lecture

**Grade Mode:** Standard Letter

**CHEM 20098 INTRODUCTION TO CHEMICAL RESEARCH (ELR) 1-3 Credit Hours**

Research experience for freshmen and sophomores. Registration requires prior approval of the research director. Does not count toward the electives for the BS or BA chemistry degree. A written report is required.

**Prerequisite:** Minimum overall 2.500 GPA in Chemistry and special approval.

**Schedule Type:** Research

**Contact Hours:** 1-3 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**Attributes:** Experiential Learning Requirement

**CHEM 20481 BASIC ORGANIC CHEMISTRY I 4 Credit Hours**

Survey of the structure, preparation and reactions (including mechanisms) of organic compounds emphasizing the chemistry of biologically important functional groups. Students may only receive credit toward graduation for one of the following courses: CHEM 10052 or CHEM 10055 or CHEM 20481 or CHEM 30481.

**Prerequisite:** Minimum C grade in CHEM 10061 or CHEM 10971.

**Schedule Type:** Lecture

**Contact Hours:** 4 lecture

**Grade Mode:** Standard Letter

**Attributes:** TAG Science

**CHEM 20482 BASIC ORGANIC CHEMISTRY II 2 Credit Hours**

Continuation of CHEM 20481, emphasizing the chemistry of functional groups prevalent in biological chemistry. Students may only receive credit toward graduation for one of the following courses: CHEM 10052 or CHEM 10055 or CHEM 20482 or CHEM 30482.

**Prerequisite:** Minimum C grade in CHEM 20481.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**Attributes:** TAG Science

**CHEM 30050 INTRODUCTION TO MATERIALS CHEMISTRY 2 Credit Hours**

This course provides an introduction to materials and their applications. It serves as the initiation for the materials chemistry concentration.

**Prerequisite:** CHEM 10061 or CHEM 10971; and CHEM 30481 and PHY 23101.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**CHEM 30105 ANALYTICAL CHEMISTRY I 3 Credit Hours**

Covers the fundamental theory, experimental methods, and applications of analytical chemistry principles in chemistry as well as other related disciplines such as life sciences and environmental science. It covers analytical measurements, experimental error, statistics, chemical equilibrium and titration, spectrometry as well as analytical separation techniques. **Prerequisite:** CHEM 10061 or CHEM 10971

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CHEM 30106 ANALYTICAL CHEMISTRY II 2 Credit Hours**

Covers the theoretical basis and experimental methods of analytical chemistry not considered in Analytical Chemistry I (CHEM 30105), such as noise reduction, advanced chemical equilibria and titrations, electrochemistry, atomic spectroscopy, instrumental design, and sample preparation.

**Prerequisite:** CHEM 30105.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**CHEM 30107 ANALYTICAL CHEMISTRY LABORATORY I (WIC) 1 Credit Hour**

Fundamental laboratory class for analytical chemistry. Provides hands-on experience to students on the subjects including data treatment, volumetric analysis, spectrophotometry, separation techniques and mass spectroscopy.

**Prerequisite:** CHEM 10063.

**Pre/corequisite:** CHEM 30105.

**Schedule Type:** Laboratory

**Contact Hours:** 3 lab

**Grade Mode:** Standard Letter

**Attributes:** Writing Intensive Course

**CHEM 30108 ANALYTICAL CHEMISTRY LABORATORY II (WIC) 2 Credit Hours**

Advanced analytical chemistry laboratory class which covers a broad range of modern analytical techniques, including ion-selective electrodes, voltammetry, atomic spectroscopy, mass-spectrometry and capillary electrophoresis. Unlike Analytical Chemistry Laboratory I (CHEM 30107) this class focuses on forensic rather than bioanalytical applications.

**Prerequisite:** CHEM 30105.

**Pre/corequisite:** CHEM 30107.

**Schedule Type:** Laboratory

**Contact Hours:** 6 lab

**Grade Mode:** Standard Letter

**Attributes:** Writing Intensive Course

**CHEM 30284 INTRODUCTORY BIOLOGICAL CHEMISTRY 4 Credit Hours**

Chemistry and metabolism of biochemically important compounds; nature of enzyme action; metabolic regulation and bioenergetics.

**Prerequisite:** CHEM 20481; or CHEM 30481 and CHEM 30482.

**Schedule Type:** Lecture

**Contact Hours:** 4 lecture

**Grade Mode:** Standard Letter

**CHEM 30301 INORGANIC CHEMISTRY I 2 Credit Hours**

Chemistry of hydrogen, ions in aqueous solution, redox reactions, coordination complexes: d-block chemistry, crystal field model, electronic spectra and magnetism, introduction to organometallic chemistry, periodic trends for p-block elements.

**Prerequisite:** CHEM 10061 or CHEM 10971.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**CHEM 30475 ORGANIC CHEMISTRY LABORATORY I (ELR) 1 Credit Hour**

Practical experience in organic laboratory techniques on both micro- and macroscale: physical methods for purification and characterization of organic compounds, introduction to organic reactions.

**Prerequisite:** CHEM 10063.

**Pre/corequisite:** CHEM 20481 or 30481.

**Schedule Type:** Laboratory

**Contact Hours:** 1 lab

**Grade Mode:** Standard Letter

**Attributes:** Experiential Learning Requirement, TAG Science

**CHEM 30476 ORGANIC CHEMISTRY LABORATORY II 1 Credit Hour**

Continuation of CHEM 30475, involving multi-step organic experiments that utilize techniques introduced in CHEM 30475.

**Prerequisite:** CHEM 30475.

**Pre/corequisite:** CHEM 20482 or 30482.

**Schedule Type:** Laboratory

**Contact Hours:** 1 lab

**Grade Mode:** Standard Letter

**Attributes:** TAG Science

**CHEM 30481 ORGANIC CHEMISTRY I 3 Credit Hours**

Introduction to organic chemistry from structural, mechanistic and synthetic viewpoints with an emphasis on the chemistry of biologically relevant functional groups. Students may only receive credit toward graduation for one of the following courses: CHEM 10052 or CHEM 10055 or CHEM 20481 or CHEM 30481.

**Prerequisite:** Minimum C grade in CHEM 10061 or CHEM 10971.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CHEM 30482 ORGANIC CHEMISTRY II 3 Credit Hours**

Continuation of CHEM 30481; organic chemistry from mechanistic and synthetic viewpoints; IR and NMR spectroscopy; mass spectrometry. Students may only receive credit toward graduation for one of the following courses: CHEM 10052 or CHEM 10055 or CHEM 20482 or CHEM 30482.

**Prerequisite:** Minimum C grade in CHEM 30481.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CHEM 40053 MATERIALS CHEMISTRY LABORATORY 2 Credit Hours**

Exploration of the synthesis, characterization and application of inorganic and organic materials.

**Prerequisite:** CHEM 30050.

**Schedule Type:** Laboratory

**Contact Hours:** 2 lab

**Grade Mode:** Standard Letter

**CHEM 40092 INTERNSHIP IN CHEMISTRY AND BIOCHEMISTRY (ELR) 1-9 Credit Hours**

Workplace experience in chemistry or biochemistry relevant to a student's career objectives. Includes career advising and job search strategies.

Comprehensive written report and presentation of activities required after completion of internship.

**Prerequisite:** Junior standing; and special approval.

**Schedule Type:** Practical Experience

**Contact Hours:** 3-27 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**Attributes:** Experiential Learning Requirement

**CHEM 40093 VARIABLE TITLE WORKSHOP IN CHEMISTRY 1-6 Credit Hours**

(Repeatable for credit) Variable titled workshop in chemistry.

**Prerequisite:** Special approval.

**Schedule Type:** Workshop

**Contact Hours:** 1-6 other

**Grade Mode:** Satisfactory/Unsatisfactory

**CHEM 40099 SENIOR HONORS THESIS (ELR) 1-10 Credit Hours**

(Repeatable for credit) For departmental honors may be started summer prior to senior year. Register each semester during senior year. Minimum total credit 5-hours.

**Prerequisite:** Departmental and honors college approval.

**Schedule Type:** Senior Project/Honors Thesis

**Contact Hours:** 1-10 other

**Grade Mode:** Standard Letter-IP

**Attributes:** Experiential Learning Requirement

**CHEM 40109 BIOANALYTICAL CHEMISTRY 3 Credit Hours**

(Slashed with CHEM 50109 and CHEM 70109) Covers traditional as well as newly emerging topics in the field of bioanalytical chemistry. Provides an overview of the fundamental biological targets for bioanalytical assays, such as lipids, peptides, proteins, nucleic acids and cells. Briefly introduces traditional tools, such as chromatography, electrophoresis, mass spectrometry, fluorescence techniques, immunoassays, and biosensors. Discusses approaches most recently developed in the field, which include lab-on-a-chip and single molecule techniques.

**Prerequisite:** CHEM 30105.

**Pre/corequisite:** CHEM 30284 or CHEM 40245 or CHEM 40261.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CHEM 40110 ANALYTICAL MASS SPECTROMETRY 3 Credit Hours**

(Slashed with CHEM 50110 and CHEM 70110) Survey of modern techniques in and associated with mass spectrometry, including historical perspectives, strengths and weaknesses, detection and quantification of analytes, ionization source and mass analyzer design, as well as construction of associated technologies including vacuum systems, ion detection, and ion optics. Ion formation processes will also be discussed.

**Prerequisite:** Minimum C grade in CHEM 30105; and a minimum C grade in MATH 12002 or MATH 12021.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CHEM 40113 CHEMICAL SEPARATIONS 3 Credit Hours**

(Cross-listed with CHEM 50113 and CHEM 70113) Theory, instrumentation and applications of chemical separations for chemical analysis with an emphasis on gas and liquid chromatography.

**Prerequisite:** CHEM 30106.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CHEM 40116 SPECTROCHEMICAL METHODS OF ANALYSIS 3 Credit Hours**

(Slashed with CHEM 50116 and CHEM 70116) Presented material is designed to familiarize students with fundamental concepts in spectrochemical analyses, mainly in the form of optical spectroscopic methods. Design and construction of spectroscopic instruments, detection and quantification of analytes, interaction of electromagnetic radiation with molecules, as well as collection and processing of analytical signals will be presented.

**Prerequisite:** Minimum C grade in CHEM 30105; and a minimum C grade in MATH 12002 or MATH 12021.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter



**CHEM 40195 SPECIAL TOPICS IN ANALYTICAL CHEMISTRY 1-3 Credit Hours**

(Repeatable for credit) Selected topics in analytical chemistry.

**Prerequisite:** Special approval.

**Schedule Type:** Lecture

**Contact Hours:** 1-3 lecture

**Grade Mode:** Standard Letter

**CHEM 40245 BIOCHEMICAL FOUNDATIONS OF MEDICINE 4 Credit Hours**

(Slashed with CHEM 50245) Chemistry and metabolism of biologically important compounds; enzyme catalysis; metabolic regulation, inborn and induced errors of metabolism. Does not count toward the BS Chemistry (Biochemistry Concentration) or BS Chemistry (Biochemistry-Pre-Medicine, Pre-Osteopathy, Pre-Dentistry Concentration)

**Prerequisite:** CHEM 30481.

**Pre/corequisite:** CHEM 30482.

**Schedule Type:** Lecture

**Contact Hours:** 4 lecture

**Grade Mode:** Standard Letter

**CHEM 40248 ADVANCED BIOLOGICAL CHEMISTRY 3 Credit Hours**

(Slashed with CHEM 50248 and CHEM 70248) Supra-molecular structures of DNA, advanced topics in DNA replication, recombination, damage and repair; gene transcription, Pre-RNA processing, mRNA translation, post-translational modifications on proteins; protein folding, protein splicing, sorting of proteins in different parts of the cells, and protein turn-over; cell signaling and cell cycle; and genetic diseases and their therapies.

**Prerequisite:** CHEM 30284 or CHEM 40245.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CHEM 40251 ADVANCED BIOLOGICAL CHEMISTRY LABORATORY (WIC) 2 Credit Hours**

Practical experience in the characterization of biomolecules; recombinant DNA technology; electrophoretic separation of macromolecules, affinity purification; mass spectrometric approaches; protein folding; RNA structure, interactions and catalytic mechanisms.

**Pre/corequisite:** CHEM 40262.

**Schedule Type:** Lecture

**Contact Hours:** 6 lab

**Grade Mode:** Standard Letter

**Attributes:** Writing Intensive Course

**CHEM 40261 PRINCIPLES OF BIOCHEMISTRY I 3 Credit Hours**

(Cross-listed with CHEM 50261 and CHEM 70261) Introduction to biochemical principles regarding the structure and function of biomolecules including water, amino acids, proteins, carbohydrates and lipids; emphasis on enzymes, membranes and bioenergetics.

**Prerequisite:** CHEM 20481 or CHEM 30482.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CHEM 40262 PRINCIPLES OF BIOCHEMISTRY II 3 Credit Hours**

(Cross-listed with CHEM 50262 and CHEM 70262) Aspects of biochemistry focusing on information, chemical and energy flow, including: integration of metabolic pathways; DNA replication, repair, recombination and modification; transcription and translation; signal transduction, post-translational modification.

**Prerequisite:** CHEM 40261.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CHEM 40263 PHYSICAL BIOCHEMISTRY 3 Credit Hours**

(Slashed with CHEM 50263 and CHEM 70263) Principles and techniques of physical chemistry used in studying biomacromolecules and biological systems, spectroscopy, structure and properties of biological molecules.

**Prerequisite:** CHEM 40555 or CHEM 40567; and CHEM 30284 or CHEM 40245 or CHEM 40261.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CHEM 40264 MEDICAL BIOCHEMISTRY 3 Credit Hours**

(Slashed with CHEM 50264 and CHEM 70264) The course provides an in-depth exploration of the biochemical basis for disease and its application to clinical medicine with an emphasis on new discoveries and other advances.

**Prerequisite:** CHEM 40262 or BSCI 40143.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CHEM 40295 SPECIAL TOPICS IN BIOCHEMISTRY 1-3 Credit Hours**

(Repeatable for credit) Selected topics in biochemistry.

**Prerequisite:** Special approval.

**Schedule Type:** Lecture

**Contact Hours:** 1-3 lecture

**Grade Mode:** Standard Letter

**CHEM 40302 INORGANIC CHEMISTRY II 2 Credit Hours**

(Cross-listed with CHEM 50302) Physical techniques in inorganic chemistry, molecular structure and bonding, metallic and ionic solids, organometallic chemistry, homogeneous and heterogeneous catalysis; solid-state and materials chemistry, nanomaterials, nanoscience and nanotechnology.

**Prerequisite:** CHEM 30301.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**CHEM 40303 INORGANIC CHEMISTRY III 2 Credit Hours**

(Cross-listed with CHEM 50303) Molecular symmetry, molecular orbital theory of polyatomic molecules and octahedra complexes, electronic spectra and reaction mechanisms of d-block complexes, periodic trends Groups 1 and 2 and d-block, bioinorganic chemistry.

**Prerequisite:** CHEM 40302.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**CHEM 40352 INORGANIC MATERIALS CHEMISTRY 3 Credit Hours**

(Slashed with CHEM 50352 and CHEM 70352) Broad survey of the synthesis, properties, characterization and applications of inorganic materials.

**Prerequisite:** CHEM 40302.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CHEM 40364 INTERMEDIATE INORGANIC CHEMISTRY LAB 1 Credit Hour**

A laboratory course providing experience in the synthesis of significant inorganic compounds and the techniques of various experimental and spectroscopic methods and chromatographic separations.

**Prerequisite:** CHEM 40302.

**Schedule Type:** Laboratory

**Contact Hours:** 3 lab

**Grade Mode:** Standard Letter

**CHEM 40365 BIOLOGICAL INORGANIC CHEMISTRY 3 Credit Hours**

(Slashed with CHEM 50365 and CHEM 70365) Physical methods, s-block metals, metal ion-induced folding, electron transfer proteins, oxidoreductases, substrate binding and activation by non-redox mechanisms, biomineralization, group-atom transfer and metals in medicine.

**Prerequisite:** CHEM 30301.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CHEM 40395 SPECIAL TOPICS IN INORGANIC CHEMISTRY 1-3 Credit Hours**

(Repeatable for credit) Selected topics in inorganic chemistry.

**Prerequisite:** Special approval.

**Schedule Type:** Lecture

**Contact Hours:** 1-3 lecture

**Grade Mode:** Standard Letter

**CHEM 40451 ORGANIC MATERIALS CHEMISTRY 3 Credit Hours**

(Slashed with CHEM 50451 and CHEM 70451) Broad survey of the synthesis, properties, characterization and applications of organic and polymeric materials.

**Prerequisite:** CHEM 30482.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CHEM 40476 SPECTROSCOPIC IDENTIFICATION OF ORGANIC COMPOUNDS 2 Credit Hours**

(Slashed with CHEM 50476 and CHEM 70476) Strategies for structural elucidation of organic compounds from analysis of infrared, proton and carbon NMR, and mass spectrometric data through lectures and problem solving.

**Prerequisite:** CHEM 30482.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**CHEM 40477 INTERMEDIATE ORGANIC CHEMISTRY LABORATORY 1 Credit Hour**

Continuation of CHEM 30476, including hands-on use of a high-field NMR spectrometer; single and multistep organic syntheses.

**Prerequisite:** CHEM 30476 and CHEM 40483.

**Schedule Type:** Laboratory

**Contact Hours:** 1 lab

**Grade Mode:** Standard Letter

**CHEM 40478 SYNTHESIS OF ORGANIC LIQUID CRYSTALS 3 Credit Hours**

(Slashed with CHEM 50478 and CHEM 70478) Synthesis of organic thermotropic liquid crystals including nematic, smectic and discotic variants. Evaluation of the phase types using polarizing microscopy and DSC. Brief introduction into their use in display devices.

**Prerequisite:** CHEM 30482.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CHEM 40483 INTERMEDIATE ORGANIC CHEMISTRY 1 Credit Hour**

Continuation of CHEM 30482; organic chemistry from mechanistic and synthetic viewpoints, including synthetic design, organotransition metal chemistry and free radical chemistry.

**Prerequisite:** A minimum C grade in CHEM 30482.

**Schedule Type:** Lecture

**Contact Hours:** 1 lecture

**Grade Mode:** Standard Letter

**CHEM 40495 SPECIAL TOPICS IN ORGANIC CHEMISTRY 1-3 Credit Hours**

(Repeatable for credit) Selected topics in organic chemistry.

**Prerequisite:** Special approval.

**Schedule Type:** Lecture

**Contact Hours:** 1-3 lecture

**Grade Mode:** Standard Letter

**CHEM 40555 PHYSICAL CHEMISTRY I 3 Credit Hours**

(Slashed with CHEM 50555 and CHEM 70555) Fundamental concepts of physical chemistry, with example problems chosen emphasizing applications in chemistry and the biological sciences.

**Prerequisite:** Minimum C grade in CHEM 10061 or CHEM 10971; and a minimum MATH 12003; and PHY 23102.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CHEM 40556 PHYSICAL CHEMISTRY II 3 Credit Hours**

(Slashed with CHEM 50556 and CHEM 70556) A continuation of CHEM 40555. Areas covered include quantum mechanics, atomic and molecular structure, spectroscopy, statistical mechanics, theories of reaction rates and the solid state.

**Prerequisite:** CHEM 40555 or PHY 45301.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CHEM 40557 PHYSICAL CHEMISTRY LABORATORY 2 Credit Hours**  
(Slashed with CHEM 50557 and CHEM 70557) Experiments in numerous areas of physical chemistry, including the interpretation and reporting of obtained experimental data, correlation of results with theory and an introduction to the computer treatment of data.

**Prerequisite:** CHEM 40556.

**Schedule Type:** Laboratory

**Contact Hours:** 3 lab

**Grade Mode:** Standard Letter

**CHEM 40559 NANOMATERIALS 3 Credit Hours**

(Slashed with CHEM 50559 and CHEM 70559) Fundamental aspects of nanomaterials ranging from nanoparticles to three-dimensional (3D) nanostructures emphasizing their synthesis, chemistry and applications.

**Prerequisite:** CHEM 10061 or CHEM 10971 and; CHEM 40555 or CHEM 40567.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CHEM 40567 PHYSICAL CHEMISTRY FOR LIFE SCIENCES 4 Credit Hours**

Traditional aspects of physical chemistry with minimal calculus treatment. Applications to the health sciences emphasized.

**Prerequisite:** Minimum C grade in CHEM 10061 or CHEM 10971; and MATH 12002 or MATH 12021.

**Pre/corequisite:** PHY 13002 or PHY 23102.

**Schedule Type:** Lecture

**Contact Hours:** 4 lecture

**Grade Mode:** Standard Letter

**CHEM 40568 ELEMENTARY PHYSICAL CHEMISTRY LABORATORY 1 Credit Hour**

Provides hands-on experience with calorimetry, viscosimetry and spectroscopic techniques.

**Prerequisite:** CHEM 40555 or CHEM 40567.

**Schedule Type:** Laboratory

**Contact Hours:** 1 lab

**Grade Mode:** Standard Letter

**CHEM 40571 SURFACE CHEMISTRY 2 Credit Hours**

(Slashed with CHEM 50571 and CHEM 70571) Treatment of basic principles and concepts in surface and colloid chemistry. Relationship to practical systems emphasized. Two hours lecture weekly.

**Prerequisite:** CHEM 40555 or CHEM 40567.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**CHEM 40595 SPECIAL TOPICS IN PHYSICAL CHEMISTRY 1-3 Credit Hours**

(Repeatable for credit) Selected topics in physical chemistry.

**Prerequisite:** Special approval.

**Schedule Type:** Lecture

**Contact Hours:** 1-3 lecture

**Grade Mode:** Standard Letter

**CHEM 40795 CURRENT TOPICS IN CHEMICAL EDUCATION 1-3 Credit Hours**

(Repeatable for credit) (Cross-listed with CHEM 50795) Recent advances in chemical research, instrumentation and theory important to chemical educators.

**Prerequisite:** Permission.

**Schedule Type:** Lecture

**Contact Hours:** 1-3 lecture

**Grade Mode:** Satisfactory/Unsatisfactory

**CHEM 40796 INDIVIDUAL INVESTIGATION 1-8 Credit Hours**

(Repeatable for credit) Registration requires prior approval of the research director. Written report required. Maximum of two hours may be applied to the four hour CHEM 40000 elective requirement for the chemistry concentration within the B.S. in Chemistry.

**Prerequisite:** Minimum 2.500 overall GPA in Chemistry; and special approval.

**Schedule Type:** Individual Investigation

**Contact Hours:** 1-8 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**CHEM 41010 BIOPHOTONICS 3 Credit Hours**

(Slashed with CHEM 51010; Cross-listed with BSCI 41110 and BSCI 51110 and PHY 41010 and PHY 51010) Interdisciplinary overview of the basics of biophotonics; application of biophotonic techniques to probe biological samples. Introduction to the foundations of optics and photonics and how the molecular structure of organic molecules translates into unique photonic properties and targeting in biological cells or tissue. Preparation of fluorescent materials, advanced spectroscopy and cell visualization using regular and confocal fluorescence microscopy.

**Prerequisite:** Special approval.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 1 lecture, 6 lab

**Grade Mode:** Standard Letter

**CHEM 50093 VARIABLE TITLE WORKSHOP IN CHEMISTRY 1-6 Credit Hours**

(Repeatable for credit) Variable titled workshop in chemistry.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Workshop

**Contact Hours:** 1-6 other

**Grade Mode:** Satisfactory/Unsatisfactory

**CHEM 50109 BIOANALYTICAL CHEMISTRY 3 Credit Hours**

(Slashed with CHEM 40109 and CHEM 70109) Covers traditional as well as newly emerging topics in the field of bioanalytical chemistry. The course will provide an overview of the fundamental biological targets for the bioanalytical assays, such as lipids, peptides, proteins, nucleic acids, and cells. The course will then briefly introduce traditional tools, such as chromatography, electrophoresis, mass spectrometry, fluorescence techniques, immunoassays, and biosensors. Finally, the course will discuss approaches most recently developed in the field, which include lab-on-a-chip and single molecule techniques.

**Prerequisite:** CHEM 30105; and graduate standing; and special approval.

**Corequisite:** CHEM 30284 or 40245 or 40261.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CHEM 50110 ANALYTICAL MASS SPECTROMETRY 3 Credit Hours**  
(Slashed with CHEM 40110 and CHEM 70110) Survey of modern techniques in and associated with mass spectrometry, including historical perspectives, strengths and weaknesses, detection and quantification of analytes, ionization source and mass analyzer design, as well as construction of associated technologies including vacuum systems, ion detection, and ion optics. Ion formation processes will also be discussed.

**Prerequisite:** Graduate standing in Chemistry.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CHEM 50113 CHEMICAL SEPARATIONS 3 Credit Hours**  
(Slashed with CHEM 40113 and CHEM 70113) Theory, instrumentation and applications of chemical separations for chemical analysis. Emphasis on gas and liquid chromatography.

**Prerequisite:** CHEM 30106; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CHEM 50116 SPECTROCHEMICAL METHODS OF ANALYSIS 3 Credit Hours**

(Slashed with CHEM 40116 and CHEM 70116) Presented material is designed to familiarize students with fundamental concepts in spectrochemical analyses, mainly in the form of optical spectroscopic methods. Design and construction of spectroscopic instruments, detection and quantification of analytes, interaction of electromagnetic radiation with molecules, as well as collection and processing of analytical signals will be presented.

**Prerequisite:** Graduate standing in Chemistry.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CHEM 50166 PRINCIPLES AND APPLICATIONS IN ANALYTICAL CHEMISTRY 2 Credit Hours**

Survey of important principles and concepts and their application in Analytical Chemistry.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**CHEM 50245 BIOCHEMICAL FOUNDATIONS OF MEDICINE 4 Credit Hours**

(Slashed with CHEM 40245) Introduction to chemistry and metabolism of important compounds in biological systems; enzymes and characteristics of enzyme catalysis; regulation of metabolism at molecular, cellular and organism levels; inborn and induced errors of metabolism. Designed and scheduled for and priority given to students in integrated life sciences program.

**Prerequisite:** CHEM 30481; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 4 lecture

**Grade Mode:** Standard Letter

**CHEM 50248 ADVANCED BIOLOGICAL CHEMISTRY 3 Credit Hours**

(Slashed with CHEM 40248 and CHEM 70248) Supra-molecular structures of DNA, advanced topics in DNA replication, recombination, damage and repair; gene transcription, Pre-RNA processing, mRNA translation, post-translational modifications on proteins; protein folding, protein splicing, sorting of proteins in different parts of the cells, and protein turn-over; cell signaling and cell cycle; and genetic diseases and their therapies.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CHEM 50261 PRINCIPLES OF BIOCHEMISTRY I 3 Credit Hours**

(Slashed with CHEM 40261 and CHEM 70261) Introduction to biochemical principles regarding the structure and function of biomolecules including water, amino acids, proteins, carbohydrates and lipids; emphases on enzymes, membranes and bioenergetics.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CHEM 50262 PRINCIPLES OF BIOCHEMISTRY II 3 Credit Hours**

(Slashed with CHEM 40262 and CHEM 70262) Aspects of biochemistry focusing on information, chemical and energy flow, including: integration of metabolic pathways; DNA replication, repair, recombination and modification; transcription and translation; signal transduction, and post-translational modification.

**Prerequisite:** CHEM 50261 or CHEM 70261; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CHEM 50263 PHYSICAL BIOCHEMISTRY 3 Credit Hours**

(Slashed with CHEM 40263 and CHEM 70263) Principles and techniques of physical chemistry used in studying biomacro-molecules and biological systems. Topics covered are thermodynamics, spectroscopy, structure and properties of biological molecules.

**Prerequisite:** Graduate standing in Chemistry.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CHEM 50264 MEDICAL BIOCHEMISTRY 3 Credit Hours**

(Slashed with CHEM 40624 and CHEM 70624) Course provides an in-depth exploration of the biochemical basis for disease and its application to clinical medicine with an emphasis on new discoveries and other advances.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CHEM 50266 PRINCIPLES AND APPLICATIONS IN BIOCHEMISTRY 2 Credit Hours**

Survey of important principles and concepts and their application in biochemistry.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture, 2 lab

**Grade Mode:** Standard Letter

**CHEM 50302 INORGANIC CHEMISTRY II 2 Credit Hours**

(Slashed with CHEM 40302) Physical techniques in inorganic chemistry, molecular structure and bonding, metallic and ionic solids, organometallic chemistry, homogeneous and heterogeneous catalysis; solid-state and materials chemistry, nanomaterials, nanoscience and nanotechnology.

**Prerequisite:** CHEM 30301; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**CHEM 50303 INORGANIC CHEMISTRY III 2 Credit Hours**

(Slashed with CHEM 40303) Molecular symmetry, molecular orbital theory of polyatomic molecules and octahedral complexes, electronic spectra and reaction mechanisms of d-block complexes, periodic trends Groups 1 and 2 and d-block, bioinorganic chemistry.

**Prerequisite:** CHEM 50302; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**CHEM 50352 INORGANIC MATERIALS CHEMISTRY 3 Credit Hours**

(Slashed with CHEM 40352 and CHEM 70352) Broad survey of the synthesis, properties, characterization and applications of inorganic materials.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CHEM 50365 BIOLOGICAL INORGANIC CHEMISTRY 3 Credit Hours**

(Slashed with CHEM 40365 and CHEM 70365) Physical methods, s-block metals, metal-induced stabilization, electron transfer proteins, oxidoreductases, hydrolases and lyases, metal transport and storage, nitrogenases, group-atom transfer and metals in medicine.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CHEM 50366 PRINCIPLES AND APPLICATIONS IN INORGANIC CHEMISTRY 2 Credit Hours**

Survey of important principles and concepts and their application in inorganic chemistry.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**CHEM 50451 ORGANIC MATERIALS CHEMISTRY 3 Credit Hours**

(Slashed with CHEM 40451 and CHEM 70451) Broad survey of the synthesis, properties, characterization and applications of organic and polymeric materials.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CHEM 50466 PRINCIPLES AND APPLICATIONS IN ORGANIC CHEMISTRY 2 Credit Hours**

Survey of important principles and concepts and their application in Organic Chemistry.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**CHEM 50476 SPECTROSCOPIC IDENTIFICATION OF ORGANIC COMPOUNDS 2 Credit Hours**

(Slashed with CHEM 40476 and CHEM 70476) Strategies for structural elucidation of organic compounds from analysis of infrared, proton and carbon NMR and mass spectrometric data through lectures and problem solving.

**Prerequisite:** CHEM 30482; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**CHEM 50478 SYNTHESIS OF ORGANIC LIQUID CRYSTALS 3 Credit Hours**

(Slashed with CHEM 40478 and CHEM 70478) Synthesis of organic thermotropic liquid crystals including nematic, smectic and discotic variants. Evaluation of the phase types using polarizing microscopy and DSC. Brief introduction into their use in display devices.

**Prerequisite:** CHEM 30482; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CHEM 50555 PHYSICAL CHEMISTRY I 3 Credit Hours**

(Slashed with CHEM 40555 and CHEM 70555) Fundamental concepts of physical chemistry, with example problems chosen emphasizing application in chemistry and the biological sciences.

**Prerequisite:** Graduate standing in Chemistry.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CHEM 50556 PHYSICAL CHEMISTRY II 3 Credit Hours**

(Slashed with CHEM 40556 and CHEM 70556) A continuation of CHEM 50555. Areas covered are chemical kinetics, quantum chemistry and the solid state.

**Prerequisite:** CHEM 50555 or PHY 45301; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CHEM 50557 PHYSICAL CHEMISTRY LABORATORY 2 Credit Hours**

(Slashed with CHEM 40557 and CHEM 70557) Experiments in numerous areas of physical chemistry, including the interpretation and reporting of obtained experimental data, correlation of results with theory and an introduction to the computer treatment of data.

**Prerequisite:** Graduate standing.

**Pre/corequisite:** CHEM 50555 and CHEM 50556.

**Schedule Type:** Laboratory

**Contact Hours:** 4 lab

**Grade Mode:** Standard Letter



**CHEM 50559 NANOMATERIALS 3 Credit Hours**

(Slashed with CHEM 40559 and CHEM 70559). Fundamental aspects of nanomaterials ranging from nanoparticles to three-dimensional (3D) nanostructures emphasizing their synthesis, chemistry and applications.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CHEM 50566 PRINCIPLES AND APPLICATIONS IN PHYSICAL CHEMISTRY 2 Credit Hours**

Survey of key principles and concepts and their application in Physical Chemistry.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**CHEM 50571 SURFACE CHEMISTRY 2 Credit Hours**

(Slashed with CHEM 40571 and CHEM 70571) Treatment of basic principles and concepts in surface and colloid chemistry. Relationship to practical systems emphasized.

**Prerequisite:** CHEM 40555 or 40567; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**CHEM 50795 CURRENT TOPICS IN CHEMICAL EDUCATION 1-3 Credit Hours**

(Repeatable for credit) (Slashed with CHEM 40795) Designed to present recent advances in chemical research, instrumentation and theory to chemistry educators.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 1-3 lecture

**Grade Mode:** Satisfactory/Unsatisfactory

**CHEM 51010 BIOPHOTONICS 3 Credit Hours**

(Slashed with CHEM 41010; Cross-listed with BSCI 41110 and BSCI 51110 and PHY 41010 and PHY 51010) Interdisciplinary overview of the basics of biophotonics; application of biophotonic techniques to probe biological samples. Introduction to the foundations of optics and photonics and how the molecular structure of organic molecules translates into unique photonic properties and targeting in biological cells or tissue. Preparation of fluorescent materials, advanced spectroscopy and cell visualization using regular and confocal fluorescence microscopy.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 1 lecture, 6 lab

**Grade Mode:** Standard Letter

**CHEM 60099 MASTERS CAPSTONE PROJECT 3-6 Credit Hours**

Capstone project in the form of literature reviews or research projects on topics in chemistry, biochemistry, or chemical education.

**Prerequisite:** Graduate standing.

**Schedule Type:** Master's Project

**Contact Hours:** 3-6 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**CHEM 60199 THESIS I 2-6 Credit Hours**

Thesis students must register for a total of 6 hours, 2 to 6 hours in single semester distributed over several semesters if desired.

**Prerequisite:** Graduate standing.

**Schedule Type:** Masters Thesis

**Contact Hours:** 2-6 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**CHEM 60254 BIOMEMBRANES 2 Credit Hours**

(Slashed with CHEM 70254) Biological membranes; composition, structure, dynamics and biogenesis; structure/function of protein mediated membrane transport.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**CHEM 60291 SEMINAR: RECENT DEVELOPMENTS IN BIOCHEMISTRY 1 Credit Hour**

(Repeatable for credit) (Slashed with CHEM 70291) Presentation and discussion of research papers from current biochemistry literature. Participation by students and faculty.

**Prerequisite:** Graduate standing.

**Schedule Type:** Seminar

**Contact Hours:** 1 other

**Grade Mode:** Standard Letter-IP

**CHEM 60299 THESIS II 2 Credit Hours**

Thesis students must continue registration until all degree requirements are met.

**Prerequisite:** CHEM 60199; and graduate standing.

**Schedule Type:** Masters Thesis

**Contact Hours:** 2 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**CHEM 60327 MODERN INORGANIC CHEMISTRY 3 Credit Hours**

(Slashed with CHEM 70327) Synthesis, structure and reactivity of inorganic compounds including transition metal and organometallic complexes.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CHEM 60391 SEMINAR: RECENT DEVELOPMENTS IN INORGANIC CHEMISTRY 1 Credit Hour**

(Repeatable for credit) (Slashed with CHEM 70391) Presentation and discussion of research papers from current inorganic chemistry literature. Participation by students and faculty.

**Prerequisite:** Graduate standing.

**Schedule Type:** Seminar

**Contact Hours:** 1 other

**Grade Mode:** Standard Letter-IP

**CHEM 60472 ADVANCED ORGANIC CHEMISTRY-SYNTHETIC ASPECTS 3 Credit Hours**

(Slashed with CHEM 70472) Disconnection approach to organic synthesis. Modern methods for carbon-carbon bond formation and functional group interconversion, and their application to natural product synthesis.

**Prerequisite:** CHEM 30482; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CHEM 60473 STEREOSELECTIVE ORGANIC SYNTHESIS 3 Credit Hours**

(Slashed with CHEM 70473) Modern methods of asymmetric synthesis; introduction to selected methods for stereoselective N-heterocycle synthesis; application of these methods in natural product synthesis.

**Prerequisite:** CHEM 30482; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CHEM 60541 ADVANCED PHYSICAL CHEMISTRY 3 Credit Hours**

(Slashed with CHEM 70541) Covers basic materials of modern physical chemistry in two broad areas: thermodynamics and introductory quantum mechanics.

**Prerequisite:** CHEM 50556; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CHEM 60591 SEMINAR: RECENT DEVELOPMENTS IN PHYSICAL CHEMISTRY 1 Credit Hour**

(Repeatable for credit) (Slashed with CHEM 70591) Presentation and discussion of research papers from current physical chemistry literature. Participation by students and faculty.

**Prerequisite:** Graduate standing.

**Schedule Type:** Seminar

**Contact Hours:** 1 other

**Grade Mode:** Standard Letter-IP

**CHEM 60691 SEMINAR: RECENT DEVELOPMENTS IN INDUSTRIAL CHEMISTRY 1 Credit Hour**

Presentation and discussion of research papers from the current industrial chemistry field. Participation by students and faculty.

**Prerequisite:** Graduate standing.

**Schedule Type:** Seminar

**Contact Hours:** 1 other

**Grade Mode:** Standard Letter

**CHEM 60894 COLLEGE TEACHING OF CHEMISTRY 1 Credit Hour**

(Repeatable for credit) (Slashed with CHEM 70894) Experience in teaching of chemistry at college level.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 1 lecture

**Grade Mode:** Satisfactory/Unsatisfactory

**CHEM 60898 MASTERS RESEARCH 1-15 Credit Hours**

(Repeatable for credit) Research for master's students. Credits earned may be applied toward degree if department approves.

**Prerequisite:** Graduate standing.

**Schedule Type:** Research

**Contact Hours:** 1-15 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**CHEM 61191 SEMINAR: PROBLEM SOLVING IN ANALYTICAL CHEMISTRY 1 Credit Hour**

(Repeatable for credit) (Slashed with CHEM 71191) Problem solving in analytical chemistry, including chemical analysis methods, instrumentation, sample preparation, and data handling.

**Prerequisite:** Graduate standing.

**Schedule Type:** Seminar

**Contact Hours:** 1 other

**Grade Mode:** Standard Letter-IP

**CHEM 61491 SEMINAR: PROBLEM SOLVING IN ORGANIC CHEMISTRY 1 Credit Hour**

(Repeatable for credit) (Slashed with CHEM 71491) Practical experience in the solving of current problems of synthesis, spectroscopy, and mechanism in organic chemistry.

**Prerequisite:** Graduate standing.

**Schedule Type:** Seminar

**Contact Hours:** 1 other

**Grade Mode:** Standard Letter-IP

**CHEM 62191 SEMINAR: ANALYTICAL CHEMISTRY 1 Credit Hour**

(Repeatable for credit) (Slashed with CHEM 72191) Student and faculty presentations on topics in analytical chemistry.

**Prerequisite:** Graduate standing.

**Schedule Type:** Seminar

**Contact Hours:** 1 other

**Grade Mode:** Standard Letter-IP

**CHEM 62291 SEMINAR: BIOCHEMISTRY 1 Credit Hour**

(Repeatable for credit) (Slashed with CHEM 72291) Student and faculty presentations on topics in biochemistry

**Prerequisite:** Graduate standing.

**Schedule Type:** Seminar

**Contact Hours:** 1 other

**Grade Mode:** Standard Letter-IP

**CHEM 62391 SEMINAR: INORGANIC CHEMISTRY 1 Credit Hour**

(Repeatable for credit) (Slashed with CHEM 72391) Student and faculty presentations on topics in inorganic chemistry.

**Prerequisite:** Graduate standing.

**Schedule Type:** Seminar

**Contact Hours:** 1 other

**Grade Mode:** Standard Letter-IP

**CHEM 62491 SEMINAR: ORGANIC CHEMISTRY 1 Credit Hour**

(Repeatable for credit) (Slashed with CHEM 72491) Presentation of topics from the recent literature on aspects of organic chemistry including synthesis, spectroscopy, mechanism, and materials properties.

**Prerequisite:** Graduate standing.

**Schedule Type:** Seminar

**Contact Hours:** 1 other

**Grade Mode:** Standard Letter-IP

**CHEM 62591 SEMINAR: PHYSICAL CHEMISTRY 1 Credit Hour**

(Repeatable for credit) (Slashed with CHEM 72591) Student and faculty presentations on topics in physical chemistry.

**Prerequisite:** Graduate standing.

**Schedule Type:** Seminar

**Contact Hours:** 1 other

**Grade Mode:** Standard Letter-IP

**CHEM 62691 SEMINAR: INDUSTRIAL CHEMISTRY 1 Credit Hour**

Presentation of current research in industrial chemistry. Participation by students and faculty.

**Prerequisite:** Graduate standing.

**Schedule Type:** Seminar

**Contact Hours:** 1 other

**Grade Mode:** Standard Letter

**CHEM 62791 SEMINAR: CHEMICAL EDUCATION 1 Credit Hour**

Presentation of current research in chemical education. Participation by students and faculty.

**Prerequisite:** Graduate standing.

**Schedule Type:** Seminar

**Contact Hours:** 1 other

**Grade Mode:** Standard Letter

**CHEM 70093 VARIABLE TITLE WORKSHOP IN CHEMISTRY 1-6 Credit Hours**

(Repeatable for credit) Variable title workshop in Chemistry.

**Prerequisite:** Doctoral standing; and special approval.

**Schedule Type:** Workshop

**Contact Hours:** 1-6 other

**Grade Mode:** Satisfactory/Unsatisfactory

**CHEM 70109 BIOANALYTICAL CHEMISTRY 3 Credit Hours**

(Slashed with CHEM 40109 and CHEM 50109) Covers traditional as well as newly emerging topics in the field of bioanalytical chemistry. The course will provide an overview of the fundamental biological targets for the bioanalytical assays, such as lipids, peptides, proteins, nucleic acids, and cells. The course will then briefly introduce traditional tools, such as chromatography, electrophoresis, mass spectrometry, fluorescence techniques, immunoassays, and biosensors. Finally, the course will discuss approaches most recently developed in the field, which include lab-on-a-chip and single molecule techniques.

**Prerequisite:** CHEM 30105; and doctoral standing; and special approval.

**Corequisite:** CHEM 30284 or CHEM 40245 or CHEM 40261.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CHEM 70110 ANALYTICAL MASS SPECTROMETRY 3 Credit Hours**

(Slashed with CHEM 40110 and CHEM 50110) Survey of modern techniques in and associated with mass spectrometry, including historical perspectives, strengths and weaknesses, detection and quantification of analytes, ionization source and mass analyzer design, as well as construction of associated technologies including vacuum systems, ion detection, and ion optics. Ion formation processes will also be discussed.

**Prerequisite:** Doctoral standing in Chemistry.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CHEM 70113 CHEMICAL SEPARATIONS 3 Credit Hours**

(Slashed with CHEM 40113 and CHEM 50113) Theory, instrumentation and applications of chemical separations for chemical analysis. Emphasis on gas and liquid chromatography.

**Prerequisite:** CHEM 30106; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CHEM 70116 SPECTROCHEMICAL METHODS OF ANALYSIS 3 Credit Hours**

(Slashed with CHEM 40116 and CHEM 50116) Presented material is designed to familiarize students with fundamental concepts in spectrochemical analyses, mainly in the form of optical spectroscopic methods. Design and construction of spectroscopic instruments, detection and quantification of analytes, interaction of electromagnetic radiation with molecules, as well as collection and processing of analytical signals will be presented.

**Prerequisite:** Doctoral standing in Chemistry.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CHEM 70195 ADVANCED TOPICS, ANALYTICAL 1-3 Credit Hours**

(Repeatable for credit) Advanced topics in analytical chemistry.

**Prerequisite:** Doctoral standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 1-3 lecture

**Grade Mode:** Standard Letter

**CHEM 70248 ADVANCED BIOLOGICAL CHEMISTRY 3 Credit Hours**

(Slashed with CHEM 40248 and CHEM 50248) Supra-molecular structures of DNA, advanced topics in DNA replication, recombination, damage and repair; gene transcription, Pre-RNA processing, mRNA translation, post-translational modifications on proteins; protein folding, protein splicing, sorting of proteins in different parts of the cells, and protein turn-over; cell signaling and cell cycle; and genetic diseases and their therapies.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CHEM 70254 BIOMEMBRANES 2 Credit Hours**

(Slashed with CHEM 60254) Biological membranes; composition, structure, dynamics and biogenesis; structure/function of protein mediated membrane transport.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**CHEM 70261 PRINCIPLES OF BIOCHEMISTRY I 3 Credit Hours**

(Slashed with CHEM 40261 and CHEM 50261) Introduction to biochemical principles regarding the structure and function of biomolecules including water, amino acids, proteins, carbohydrates and lipids; emphases on enzymes, membranes and bioenergetics.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CHEM 70262 PRINCIPLES OF BIOCHEMISTRY II 3 Credit Hours**

(Slashed with CHEM 40262 and CHEM 50262) Aspects of biochemistry focusing on information, chemical and energy flow, including: integration of metabolic pathways; DNA replication, repair, recombination and modification; transcription and translation; signal transduction, and post-translational modification.

**Prerequisite:** CHEM 50261 or CHEM 70261; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CHEM 70263 PHYSICAL BIOCHEMISTRY 3 Credit Hours**

(Slashed with CHEM 40263 and CHEM 50263) Principles and techniques of physical chemistry used in studying biomacromolecules and biological systems. Topics covered are thermodynamics, spectroscopy, structure and properties of biological molecules.

**Prerequisite:** Doctoral standing in Chemistry.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CHEM 70264 MEDICAL BIOCHEMISTRY 3 Credit Hours**

(Slashed with CHEM 40624 and CHEM 50624) The course provides an in-depth exploration of the biochemical basis for disease and its application to clinical medicine with an emphasis on new discoveries and other advances.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CHEM 70291 SEMINAR:RECENT DEVELOPMENTS IN BIOCHEMISTRY 1 Credit Hour**

(Repeatable for credit) Presentation and discussion of research papers from current biochemistry literature. Participation by students and faculty.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Seminar

**Contact Hours:** 1 other

**Grade Mode:** Standard Letter-IP

**CHEM 70295 ADVANCED TOPICS IN BIOCHEMISTRY 1-3 Credit Hours**

(Repeatable for credit) Advanced topics in biochemistry.

**Prerequisite:** Doctoral standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 1-3 lecture

**Grade Mode:** Standard Letter

**CHEM 70327 MODERN INORGANIC CHEMISTRY 3 Credit Hours**

(Slashed with CHEM 60327) Synthesis, structure and reactivity of inorganic compounds including transition metal and organometallic complexes.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CHEM 70352 INORGANIC MATERIALS CHEMISTRY 3 Credit Hours**

(Slashed with CHEM 40352 and CHEM 50352) Broad survey of the synthesis, properties, characterization and applications of inorganic materials.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CHEM 70365 BIOLOGICAL INORGANIC CHEMISTRY 3 Credit Hours**

(Slashed with CHEM 40365 and CHEM 50365) Physical methods, s-block metals, metal-induced stabilization, electron transfer proteins, oxidoreductases, hydrolases and lyases, metal transport and storage, nitrogenases, group-atom transfer and metals in medicine.

**Prerequisite:** CHEM 30301; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CHEM 70391 SEMINAR:RECENT DEVELOPMENTS IN INORGANIC CHEMISTRY 1 Credit Hour**

(Repeatable for credit) (Slashed with CHEM 60391) Presentation and discussion of research papers from current inorganic chemistry literature. Participation by students and faculty.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Seminar

**Contact Hours:** 1 other

**Grade Mode:** Standard Letter-IP

**CHEM 70395 ADVANCED TOPICS, INORGANIC 1-3 Credit Hours**

(Repeatable for credit) Advanced topics in inorganic chemistry.

**Prerequisite:** Doctoral standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 1-3 lecture

**Grade Mode:** Standard Letter

**CHEM 70451 ORGANIC MATERIALS CHEMISTRY 3 Credit Hours**

(Slashed with CHEM 40451 and CHEM 50451) Broad survey of the synthesis, properties characterization and applications of organic and polymeric materials.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CHEM 70472 ADVANCED ORGANIC CHEMISTRY-SYNTHETIC ASPECTS 3 Credit Hours**

(Slashed with CHEM 60472) Disconnection approach to organic synthesis. Modern methods for carbon-carbon bond formation and functional group interconversion, and their application to natural product synthesis. Doctoral standing.

**Prerequisite:** CHEM 30482.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CHEM 70473 STEREOSELECTIVE ORGANIC SYNTHESIS 3 Credit Hours**

(Slashed with CHEM 60473) Modern methods of asymmetric synthesis; introduction to selected methods for stereoselective N-heterocycle synthesis; application of these methods in natural product synthesis.

**Prerequisite:** CHEM 30482; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CHEM 70476 SPECTROSCOPIC IDENTIFICATION OF ORGANIC COMPOUNDS 2 Credit Hours**

(Slashed with CHEM 40476 and CHEM 50476) Strategies for structural elucidation of organic compounds from analysis of infrared, proton and carbon NMR, and mass spectrometric data through lectures and problem solving.

**Prerequisite:** CHEM 30482; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**CHEM 70478 SYNTHESIS OF ORGANIC LIQUID CRYSTALS 3 Credit Hours**

(Slashed with CHEM 40478 and CHEM 70478) Synthesis of organic thermotropic liquid crystals including nematic, smectic and discotic variants. Evaluation of the phase types using polarizing microscopy and DSC. Brief introduction into their use in display devices.

**Prerequisite:** CHEM 30482; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CHEM 70495 ADVANCED TOPICS, ORGANIC 1-3 Credit Hours**

(Repeatable for credit) Advanced topics in organic chemistry.

**Prerequisite:** Permission.

**Schedule Type:** Lecture

**Contact Hours:** 1-3 lecture

**Grade Mode:** Standard Letter



**CHEM 70541 ADVANCED PHYSICAL CHEMISTRY 3 Credit Hours**  
(Slashed with CHEM 60541) Covers basic materials of modern physical chemistry in two broad areas: thermodynamics and introductory quantum mechanics.

**Prerequisite:** CHEM 50556; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CHEM 70555 PHYSICAL CHEMISTRY I 3 Credit Hours**  
(Slashed with CHEM 40555 and CHEM 50555) Fundamental concepts of physical chemistry, with example problems chosen emphasizing applications in chemistry and the biological sciences.

**Prerequisite:** Doctoral standing in Chemistry.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CHEM 70556 PHYSICAL CHEMISTRY II 3 Credit Hours**  
(Slashed with CHEM 40556 and CHEM 50556) Fundamental concepts of physical chemistry of current interest. Included are biological and medical aspects of physical chemistry. Graduate credit given to nonchemistry and nonphysics majors and with permission to certain chemistry majors.

**Prerequisite:** CHEM 50555 or 70555; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CHEM 70557 PHYSICAL CHEMISTRY LABORATORY 2 Credit Hours**  
(Slashed with CHEM 40557 and CHEM 50557) Experiments in numerous areas of physical chemistry, including the interpretation and reporting of obtained experimental data correlation of results with theory and an introduction to the computer treatment of data.

**Prerequisite:** Doctoral standing.

**Pre/corequisite:** CHEM 70555 and CHEM 70556.

**Schedule Type:** Laboratory

**Contact Hours:** 4 lab

**Grade Mode:** Standard Letter

**CHEM 70559 NANOMATERIALS 3 Credit Hours**  
(Slashed with CHEM 40559 and CHEM 50559) Fundamental aspects of nanomaterials ranging from nanoparticles to three-dimensional (3D) nanostructures emphasizing their synthesis, chemistry and applications.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CHEM 70571 SURFACE CHEMISTRY 2 Credit Hours**  
(Slashed with CHEM 40571 and CHEM 50571) Treatment of basic principles and concepts in surface and colloid chemistry. Relationship to practical systems emphasized.

**Prerequisite:** CHEM 40555 or CHEM 40567; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**CHEM 70591 SEMINAR:RECENT DEVELOPMENTS IN PHYSICAL CHEMISTRY 1 Credit Hour**  
(Repeatable for credit) (Slashed with CHEM 60591) Presentation and discussion of research papers from current physical chemistry literature. Participation by students and faculty.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Seminar

**Contact Hours:** 1 other

**Grade Mode:** Standard Letter-IP

**CHEM 70595 ADVANCED TOPICS, PHYSICAL 1-3 Credit Hours**  
(Repeatable for credit) Advanced topics in physical chemistry.

**Prerequisite:** Doctoral standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 1-3 lecture

**Grade Mode:** Standard Letter

**CHEM 70894 COLLEGE TEACHING OF CHEMISTRY 1 Credit Hour**  
(Repeatable for credit) (Slashed with CHEM 60894) Experience in teaching of chemistry at college level.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 1 lecture

**Grade Mode:** Satisfactory/Unsatisfactory

**CHEM 71191 SEMINAR:PROBLEM SOLVING IN ANALYTICAL CHEMISTRY 1 Credit Hour**  
(Repeatable for credit) (Slashed with CHEM 61191) Problem solving in analytical chemistry, including chemical analysis methods, instrumentation, sample preparation, and data handling.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Seminar

**Contact Hours:** 1 other

**Grade Mode:** Standard Letter-IP

**CHEM 71491 SEMINAR:PROBLEM SOLVING IN ORGANIC CHEMISTRY 1 Credit Hour**  
(Repeatable for credit) (Slashed with CHEM 61491) Practical experience in the solving of current problems of synthesis, spectroscopy, and mechanism in organic chemistry.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Seminar

**Contact Hours:** 1 other

**Grade Mode:** Standard Letter-IP

**CHEM 72191 SEMINAR: ANALYTICAL CHEMISTRY 1 Credit Hour**  
(Repeatable for credit) (Slashed with CHEM 62191) Student and faculty presentations on topics in analytical chemistry.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Seminar

**Contact Hours:** 1 other

**Grade Mode:** Standard Letter-IP

**CHEM 72291 SEMINAR: BIOCHEMISTRY 1 Credit Hour**  
(Repeatable for credit) (Slashed with CHEM 62291) Student and faculty presentations on topics in biochemistry.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Seminar

**Contact Hours:** 1 other

**Grade Mode:** Standard Letter-IP



**CHEM 72391 SEMINAR:INORGANIC CHEMISTRY 1 Credit Hour**  
 (Repeatable for credit) (Slashed with CHEM 62391) Student and faculty presentations on topics in inorganic chemistry.  
**Prerequisite:** Doctoral standing.  
**Schedule Type:** Seminar  
**Contact Hours:** 1 other  
**Grade Mode:** Standard Letter-IP

**CHEM 72491 SEMINAR:ORGANIC CHEMISTRY 1 Credit Hour**  
 (Repeatable for credit) (Slashed with CHEM 62491) Presentation of topics from the recent literature on aspects of organic chemistry including synthesis, spectroscopy, mechanism, and materials properties.  
**Prerequisite:** Doctoral standing.  
**Schedule Type:** Seminar  
**Contact Hours:** 1 other  
**Grade Mode:** Standard Letter-IP

**CHEM 72591 SEMINAR:PHYSICAL CHEMISTRY 1 Credit Hour**  
 (Repeatable for credit) (Slashed with CHEM 62591) Student and faculty presentations on topics in physical chemistry.  
**Prerequisite:** Doctoral standing.  
**Schedule Type:** Seminar  
**Contact Hours:** 1 other  
**Grade Mode:** Standard Letter-IP

**CHEM 80199 DISSERTATION I 15 Credit Hours**  
 (Repeatable for credit) Doctoral dissertation, for which registration in two semesters is required, first of which will be semester in which dissertation work is begun and continuing until the completion of 30 hours.  
**Prerequisite:** Doctoral standing; and special approval.  
**Schedule Type:** Dissertation  
**Contact Hours:** 15 other  
**Grade Mode:** Satisfactory/Unsatisfactory-IP

**CHEM 80299 DISSERTATION II 15 Credit Hours**  
 (Repeatable for credit) Continuing registration required of doctoral students who have completed the initial 30 hours of dissertation and continuing until all degree requirements are met.  
**Prerequisite:** CHEM 80199; and doctoral standing.  
**Schedule Type:** Dissertation  
**Contact Hours:** 15 other  
**Grade Mode:** Satisfactory/Unsatisfactory-IP

**CHEM 80898 RESEARCH 1-15 Credit Hours**  
 (Repeatable for credit) Research for doctoral students. Credits earned may be applied toward degree if department approves.  
**Prerequisite:** Doctoral standing.  
**Schedule Type:** Research  
**Contact Hours:** 1-15 other  
**Grade Mode:** Satisfactory/Unsatisfactory-IP

## Biotechnology - B.S.

College of Arts and Sciences  
 Department of Chemistry  
 208 Williams Hall  
 Kent Campus  
 330-672-2032  
 chem@kent.edu  
 www.kent.edu/chemistry

Department of Biological Sciences  
 256 Cunningham Hall

Kent Campus  
 330-672-3613  
 kentbiology@kent.edu  
 www.kent.edu/biology

## Description

The Bachelor of Science in Biotechnology is an interdisciplinary program that provides a strong academic foundation in biological sciences and chemistry, practical training in the various biotechnologies and a solid understanding of their application in industry and biomedicine. The science of biotechnology extends across many areas of biology and chemistry and provides cutting-edge technology tools for modern biology and biomedical research. The curriculum includes a research experience at Kent State and/or an internship at a biotechnology company.

Biotechnology graduates have employment opportunities in biomedical research and in the rapidly growing biotechnology and pharmaceutical industries.

## Fully Offered At:

- Kent Campus

## Admission Requirements

The university affirmatively strives to provide educational opportunities and access to students with varied backgrounds, those with special talents and adult students who graduated from high school three or more years ago.

**Freshman Students on the Kent Campus:** The freshman admission policy on the Kent Campus is selective. Admission decisions are based upon the following: cumulative grade point average, ACT and/or SAT scores, strength of high school college preparatory curriculum and grade trends. The Admissions Office at the Kent Campus may defer the admission of students who do not meet admissions criteria but who demonstrate areas of promise for successful college study. Deferred applicants may begin their college coursework at one of seven regional campuses of Kent State University. For more information on admissions, including additional requirements for some academic programs, visit the admissions website for new freshmen.

**Freshman Students on the Regional Campuses:** Kent State campuses at Ashtabula, East Liverpool, Geauga, Salem, Stark, Trumbull and Tuscarawas, as well as the Regional Academic Center in Twinsburg, have open enrollment admission for students who hold a high school diploma, GED or equivalent.

**English Language Proficiency Requirements for International Students:** All international students must provide proof of English language proficiency (unless they meet specific exceptions) by earning a minimum 525 TOEFL score (71 on the Internet-based version), minimum 75 MELAB score, minimum 6.0 IELTS score or minimum 48 PTE score, or by completing the ESL level 112 Intensive Program. For more information on international admission, visit the Office of Global Education's admission website.

**Transfer, Transitioning and Former Students:** For more information about admission criteria for transfer, transitioning and former students, please visit the admissions website.

## Program Learning Outcomes

Graduates of this program will be able to:

1. Apply knowledge and information to complex issues in biotechnology
2. Use problem-solving and data-gathering skills to comprehend issues in biotechnology.
3. Develop inductive reasoning and technical communications skills in the context of working in a complex group environment.
4. Analyze scientific papers and expand skills for listening to and critiquing scientific seminars based on the literature or current research.
5. Effectively communicate scientific information.
6. Develop collaborative working relationships with research mentors and laboratory members.

## University Requirements

All students in a bachelor's degree program at Kent State University must complete the following university requirements for graduation.

**NOTE:** University requirements may be fulfilled in this program by specific course requirements. Please see Program Requirements for details.

Destination Kent State: First Year Experience	1
Course is not required for students with 25 transfer credits, excluding College Credit Plus, or age 21+ at time of admission.	
Diversity Domestic/Global (DIVD/DIVG)	2 courses
Students must successfully complete one domestic and one global course, of which one must be from the Kent Core.	
Experiential Learning Requirement (ELR)	varies
Students must successfully complete one course or approved experience.	
Kent Core (see table below)	36-37
Writing-Intensive Course (WIC)	1 course
Students must earn a minimum C grade in the course.	
Upper-Division Requirement	39 (or 42)
Students must successfully complete 39 upper-division (numbered 30000 to 49999) credit hours to graduate. Students in a B.A. and/or B.S. degree in the College of Arts and Sciences must complete 42 upper-division credit hours.	
Total Credit Hour Requirement	120
Some bachelor's degrees require students to complete more than 120 credit hours.	

## Kent Core Requirements

Kent Core Composition (KCOMP)	6
Kent Core Mathematics and Critical Reasoning (KMCR)	3
Kent Core Humanities and Fine Arts (KHUM/KFA) (min one course each)	9
Kent Core Social Sciences (KSS) (must be from two disciplines)	6
Kent Core Basic Sciences (KBS/KLAB) (must include one laboratory)	6-7
Kent Core Additional (KADL)	6
<b>Total Credit Hours:</b>	<b>36-37</b>

## Program Requirements

### Major Requirements

[BS-BTEC]

Code	Title	Credit Hours
<b>Major Requirements (courses count in major GPA)</b>		
BSCI 10120	BIOLOGICAL FOUNDATIONS (KBS) (KLAB)	4
BSCI 30140	CELL BIOLOGY	4
BSCI 30156	ELEMENTS OF GENETICS	3
BSCI 30171	GENERAL MICROBIOLOGY	4
BSCI 40158	MOLECULAR BIOLOGY	3
BTEC 10210	INTRODUCTION TO BIOTECHNOLOGY	3
BTEC 40191	SEMINAR: RECENT DEVELOPMENTS IN BIOTECHNOLOGY	1
BTEC 40192	INTERNSHIP IN BIOTECHNOLOGY (ELR)	6-12
or BTEC 40196	INDIVIDUAL INVESTIGATION IN BIOTECHNOLOGY (ELR)	
BTEC 40210	CASE STUDIES IN BIOTECHNOLOGY (WIC)	3
BTEC 40220	BIOINFORMATICS	3
BUS 10123	EXPLORING BUSINESS	3
CHEM 10060	GENERAL CHEMISTRY I (KBS)	4
CHEM 10061	GENERAL CHEMISTRY II (KBS)	4
CHEM 10062	GENERAL CHEMISTRY I LABORATORY (KBS) (KLAB)	1
CHEM 10063	GENERAL CHEMISTRY II LABORATORY (KBS) (KLAB)	1
CHEM 20481	BASIC ORGANIC CHEMISTRY I	4
CHEM 30284	INTRODUCTORY BIOLOGICAL CHEMISTRY	4
CHEM 40248	ADVANCED BIOLOGICAL CHEMISTRY	3
CHEM 40251	ADVANCED BIOLOGICAL CHEMISTRY LABORATORY (WIC) (min grade C) <sup>1</sup>	2
MATH 12002	ANALYTIC GEOMETRY AND CALCULUS I (KMCR)	5
MATH 30011	BASIC PROBABILITY AND STATISTICS	3
PHIL 30015	MEDICINE AND MORALITY	3
PHY 13001	GENERAL COLLEGE PHYSICS I (KBS)	4
PHY 13021	GENERAL COLLEGE PHYSICS LABORATORY I (KBS) (KLAB)	1
Major Electives, choose from the following:		9
BSCI 30518	VERTEBRATE ANATOMY	
BSCI 40143	EUKARYOTIC CELL BIOLOGY	
BSCI 40159	MOLECULAR BIOLOGY LABORATORY (ELR) (WIC)	
BSCI 40174	IMMUNOLOGY	
CHEM 30105	ANALYTICAL CHEMISTRY I	
CHEM 30107	ANALYTICAL CHEMISTRY LABORATORY I (WIC)	
CHEM 30301	INORGANIC CHEMISTRY I	
CHEM 30475	ORGANIC CHEMISTRY LABORATORY I (ELR)	
CHEM 40567	PHYSICAL CHEMISTRY FOR LIFE SCIENCES	
PSYC 41363	BIOPSYCHOLOGY	
Upper-Division Electives (30000 or 40000 level) approved by program director		
<b>Additional Requirements (courses do not count in major GPA)</b>		
CS 10051	INTRODUCTION TO COMPUTER SCIENCE (KMCR)	4
PHIL 21001	INTRODUCTION TO ETHICS (DIVG) (KHUM)	3
UC 10097	DESTINATION KENT STATE: FIRST YEAR EXPERIENCE	1
Foreign Language (see Foreign Language College Requirement below)		8
Kent Core Composition		6
Kent Core Humanities and Fine Arts (minimum one course from each)		6
Kent Core Social Sciences (must be from two disciplines)		6

General Elective (total credit hours depends on earning 120 credit hours, including 42 upper-division credit hours) 1

Minimum Total Credit Hours: 120

<sup>1</sup> A minimum C grade must be earned to fulfill the writing-intensive requirement.

## Graduation Requirements

Minimum Major GPA	Minimum Overall GPA
2.000	2.000

### Foreign Language College Requirement

- Students pursuing the Bachelor of Science degree in the College of Arts and Sciences must complete 8 credit hours of foreign language.<sup>1</sup>
- Minimum Elementary I and II of the same language

<sup>1</sup> All students with prior foreign language experience should take the foreign language placement test to determine the appropriate level at which to start. Some students may begin their university foreign language experience beyond the Elementary I level and will complete the requirement with fewer credit hours and fewer courses. This may be accomplished by: (1) passing a course beyond the Elementary I through Intermediate II level or (2) receiving credit through Credit by Exam (CBE), the College Level Examination Program (CLEP), the Advanced Placement (AP) exam or credit through the International Baccalaureate (IB) program; or (3) being designated a 'native speaker' of a non-English language (consult with the College of Arts and Sciences Advising Office for additional information). When students complete the requirement with fewer than 8 credit hours and two courses, they will complete the remaining hours with general electives.

## Roadmap

This roadmap is a recommended semester-by-semester plan of study for this major. However, courses designated as critical (!) must be completed in the semester listed to ensure a timely graduation.

Semester One		Credits
!	BSCI 10120 BIOLOGICAL FOUNDATIONS (KBS) (KLAB)	4
!	CHEM 10060 GENERAL CHEMISTRY I (KBS)	4
!	CHEM 10062 GENERAL CHEMISTRY I LABORATORY (KBS) (KLAB)	1
	MATH 12002 ANALYTIC GEOMETRY AND CALCULUS I (KMCR)	5
	UC 10097 DESTINATION KENT STATE: FIRST YEAR EXPERIENCE	1
Credit Hours		15
Semester Two		
	BSCI 30140 CELL BIOLOGY	4
	BTEC 10210 INTRODUCTION TO BIOTECHNOLOGY	3
	CHEM 10061 GENERAL CHEMISTRY II (KBS)	4
	CHEM 10063 GENERAL CHEMISTRY II LABORATORY (KBS) (KLAB)	1
	Kent Core Requirement	3
Credit Hours		15
Semester Three		
	BSCI 30171 GENERAL MICROBIOLOGY	4
	CHEM 20481 BASIC ORGANIC CHEMISTRY I	4

PHIL 21001 INTRODUCTION TO ETHICS (DIVG) (KHUM)	3
Foreign Language	4
Credit Hours	15

### Semester Four

BSCI 30156 ELEMENTS OF GENETICS	3
CS 10051 INTRODUCTION TO COMPUTER SCIENCE (KMCR)	4
PHY 13001 GENERAL COLLEGE PHYSICS I (KBS)	4
PHY 13021 GENERAL COLLEGE PHYSICS LABORATORY I (KBS) (KLAB)	1
Foreign Language	4
Credit Hours	16

### Semester Five

BSCI 40158 MOLECULAR BIOLOGY	3
BUS 10123 EXPLORING BUSINESS	3
MATH 30011 BASIC PROBABILITY AND STATISTICS	3
Kent Core Requirement	3
Kent Core Requirement	3
General Elective	1
Credit Hours	16

### Semester Six

CHEM 30284 INTRODUCTORY BIOLOGICAL CHEMISTRY	4
PHIL 30015 MEDICINE AND MORALITY	3
Major Elective	3
Kent Core Requirement	3
Kent Core Requirement	3
Credit Hours	16

### Third Summer Term

BTEC 40192 INTERNSHIP IN BIOTECHNOLOGY (ELR)	2-6
or BTEC 40196 or INDIVIDUAL INVESTIGATION IN BIOTECHNOLOGY (ELR)	
Credit Hours	2

### Semester Seven

BTEC 40191 SEMINAR: RECENT DEVELOPMENTS IN BIOTECHNOLOGY	1
BTEC 40210 CASE STUDIES IN BIOTECHNOLOGY (WIC)	3
BTEC 40220 BIOINFORMATICS	3
CHEM 40248 ADVANCED BIOLOGICAL CHEMISTRY	3
Major Elective	3
Kent Core Requirement	3
Credit Hours	16

### Semester Eight

BTEC 40192 INTERNSHIP IN BIOTECHNOLOGY (ELR)	4-6
or BTEC 40196 or INDIVIDUAL INVESTIGATION IN BIOTECHNOLOGY (ELR)	
CHEM 40251 ADVANCED BIOLOGICAL CHEMISTRY LABORATORY (WIC)	2
Major Elective	3
Credit Hours	9

Minimum Total Credit Hours: 120

## Chemistry - B.A.

### College of Arts and Sciences

Department of Chemistry and Biochemistry

208 Williams Hall

Kent Campus

330-672-2032

chem@kent.edu

www.kent.edu/chemistry

## Description

The Bachelor of Arts degree in Chemistry allows students greater flexibility in choosing electives than the B.S. degree. Although not intended for students planning to become practicing chemists, the B.A. degree program is well suited for those needing a strong chemistry background as preparation for other career opportunities.

The program may be used to meet pre-medicine and pre-dentistry requirements when appropriate courses from the biological sciences are used to fulfill elective hours. However, the B.S. degree in Chemistry, Biochemistry concentration, is strongly recommended for students interested in medical or dental school.

Students in the program have the opportunity to participate in an exchange program with the University of Leicester in England.

### Fully Offered At:

- Kent Campus

## Admission Requirements

The university affirmatively strives to provide educational opportunities and access to students with varied backgrounds, those with special talents and adult students who graduated from high school three or more years ago.

**Freshman Students on the Kent Campus:** The freshman admission policy on the Kent Campus is selective. Admission decisions are based upon the following: cumulative grade point average, ACT and/or SAT scores, strength of high school college preparatory curriculum and grade trends. The Admissions Office at the Kent Campus may defer the admission of students who do not meet admissions criteria but who demonstrate areas of promise for successful college study. Deferred applicants may begin their college coursework at one of seven regional campuses of Kent State University. For more information on admissions, including additional requirements for some academic programs, visit the admissions website for new freshmen.

**Freshman Students on the Regional Campuses:** Kent State campuses at Ashtabula, East Liverpool, Geauga, Salem, Stark, Trumbull and Tuscarawas, as well as the Regional Academic Center in Twinsburg, have open enrollment admission for students who hold a high school diploma, GED or equivalent.

**English Language Proficiency Requirements for International Students:** All international students must provide proof of English language proficiency (unless they meet specific exceptions) by earning a minimum 525 TOEFL score (71 on the Internet-based version), minimum 75 MELAB score, minimum 6.0 IELTS score or minimum 48 PTE score, or by completing the ESL level 112 Intensive Program. For more information on international admission, visit the Office of Global Education's admission website.

**Transfer, Transitioning and Former Students:** For more information about admission criteria for transfer, transitioning and former students, please visit the admissions website.

## Program Learning Outcomes

Graduates of this program will be able to:

1. Understand and apply chemical knowledge.

## University Requirements

All students in a bachelor's degree program at Kent State University must complete the following university requirements for graduation.

**NOTE:** University requirements may be fulfilled in this program by specific course requirements. Please see Program Requirements for details.

Destination Kent State: First Year Experience	1
Course is not required for students with 25 transfer credits, excluding College Credit Plus, or age 21+ at time of admission.	
Diversity Domestic/Global (DIVD/DIVG)	2 courses
Students must successfully complete one domestic and one global course, of which one must be from the Kent Core.	
Experiential Learning Requirement (ELR)	varies
Students must successfully complete one course or approved experience.	
Kent Core (see table below)	36-37
Writing-Intensive Course (WIC)	1 course
Students must earn a minimum C grade in the course.	
Upper-Division Requirement	39 (or 42)
Students must successfully complete 39 upper-division (numbered 30000 to 49999) credit hours to graduate. Students in a B.A. and/or B.S. degree in the College of Arts and Sciences must complete 42 upper-division credit hours.	
Total Credit Hour Requirement	120
Some bachelor's degrees require students to complete more than 120 credit hours.	

## Kent Core Requirements

Kent Core Composition (KCMP)	6
Kent Core Mathematics and Critical Reasoning (KMCR)	3
Kent Core Humanities and Fine Arts (KHUM/KFA) (min one course each)	9
Kent Core Social Sciences (KSS) (must be from two disciplines)	6
Kent Core Basic Sciences (KBS/KLAB) (must include one laboratory)	6-7
Kent Core Additional (KADL)	6
<b>Total Credit Hours:</b>	<b>36-37</b>

## Program Requirements

### Major Requirements

Code	Title	Credit Hours
<b>Major Requirements (courses count in major GPA)</b>		
CHEM 10060	GENERAL CHEMISTRY I (KBS)	4
or CHEM 10970	HONORS GENERAL CHEMISTRY I (KBS)	
CHEM 10061	GENERAL CHEMISTRY II (KBS)	4
or CHEM 10971	HONORS GENERAL CHEMISTRY II (KBS)	
CHEM 10062	GENERAL CHEMISTRY I LABORATORY (KBS) (KLAB)	1
CHEM 10063	GENERAL CHEMISTRY II LABORATORY (KBS) (KLAB)	1

CHEM 20481	BASIC ORGANIC CHEMISTRY I	4
or CHEM 30481	ORGANIC CHEMISTRY I	
CHEM 20482	BASIC ORGANIC CHEMISTRY II	2
or CHEM 30482	ORGANIC CHEMISTRY II	
CHEM 30105	ANALYTICAL CHEMISTRY I	3
CHEM 30107	ANALYTICAL CHEMISTRY LABORATORY I (WIC)	1
		1
CHEM 30284	INTRODUCTORY BIOLOGICAL CHEMISTRY	4
CHEM 30301	INORGANIC CHEMISTRY I	2
CHEM 30475	ORGANIC CHEMISTRY LABORATORY I (ELR)	1
CHEM 30476	ORGANIC CHEMISTRY LABORATORY II	1
CHEM 40302	INORGANIC CHEMISTRY II	2
CHEM 40567	PHYSICAL CHEMISTRY FOR LIFE SCIENCES	4
CHEM 40568	ELEMENTARY PHYSICAL CHEMISTRY LABORATORY	1
MATH 11010	ALGEBRA FOR CALCULUS (KMCR)	3
MATH 11022	TRIGONOMETRY (KMCR)	3
MATH 12002	ANALYTIC GEOMETRY AND CALCULUS I (KMCR)	5
PHY 13001	GENERAL COLLEGE PHYSICS I (KBS)	4
PHY 13002	GENERAL COLLEGE PHYSICS II (KBS)	4
PHY 13021	GENERAL COLLEGE PHYSICS LABORATORY I (KBS) (KLAB)	1
PHY 13022	GENERAL COLLEGE PHYSICS LABORATORY II (KBS) (KLAB)	1
Chemistry Elective, choose from the following:		1-3
CHEM 30050	INTRODUCTION TO MATERIALS CHEMISTRY	
CHEM 30106	ANALYTICAL CHEMISTRY II	
CHEM 40248	ADVANCED BIOLOGICAL CHEMISTRY	
CHEM 40303	INORGANIC CHEMISTRY III	
CHEM 40477	INTERMEDIATE ORGANIC CHEMISTRY LABORATORY	
CHEM 40483	INTERMEDIATE ORGANIC CHEMISTRY	
CHEM 40796	INDIVIDUAL INVESTIGATION	
Chemistry (CHEM) Elective Courses Approved by Department		
<b>Additional Requirements (courses do not count in major GPA)</b>		
UC 10097	DESTINATION KENT STATE: FIRST YEAR EXPERIENCE	1
Foreign Language (see Foreign Language College Requirement below)		14-16
College General Requirement <sup>2</sup>		3
Kent Core Composition		6
Kent Core Humanities and Fine Arts (minimum one course from each)		9
Kent Core Social Sciences (must be from two disciplines)		6
General Electives (total credit hours depends on earning 120 credit hours, including 42 upper-division credit hours)		24
Minimum Total Credit Hours:		120

<sup>1</sup> A minimum C grade must be earned to fulfill the writing-intensive requirement.

<sup>2</sup> One additional course taken from the Kent Core Social Sciences courses in the following Arts and Sciences disciplines: Anthropology (ANTH), Geography (GEOG), Criminology and Justice Studies (CRIM), Peace and Conflict Studies (PACS), Political Science (POL), Psychology (PSYC) or Sociology (SOC). The course may not be from the student's major.

## Graduation Requirements

Minimum Major GPA	Minimum Overall GPA
2.000	2.000

## Foreign Language College Requirement

Students pursuing the Bachelor of Arts degree in the College of Arts and Sciences must complete 14-16 credit hours of foreign language.<sup>1</sup>

To complete the requirement, students have the equivalent of Elementary I and II in any language, plus one of the following options:

- Intermediate I and II of the same language<sup>2</sup>
- Elementary I and II of a second language
- Any combination of two courses from the following list:

- Intermediate I of the same language
- MCLS 10001 INTRODUCTION TO STRUCTURAL CONCEPTS FOR LANGUAGE STUDENTS
- MCLS 20091 VARIABLE CONTENT SEMINAR IN GLOBAL LITERACY: CASE STUDIES
- MCLS 21417 MULTICULTURALISM IN TODAY'S GERMANY (DIVG)
- MCLS 28404 THE LATIN AMERICAN EXPERIENCE (DIVG)

<sup>1</sup> All students with prior foreign language experience should take the foreign language placement test to determine the appropriate level at which to start. Some students may begin beyond the Elementary I level and will complete the requirement with fewer credit hours and fewer courses. This may be accomplished by (1) passing a course beyond Elementary I through Intermediate II level; (2) receiving credit through Credit by Exam (CBE), Advanced Placement (AP), International Baccalaureate (IB) or College Level Examination Program (CLEP); or (3) being designated a 'native speaker' of a non-English language (consult with the College of Arts and Sciences Advising Office for additional information). When students complete the requirement with fewer than 14 credit hours and four courses, they will complete remaining credit hours with general electives.

<sup>2</sup> Certain majors, concentrations and minors may require specific languages, limit the languages from which a student may choose or require coursework through Intermediate II. Students who plan to pursue graduate study may need particular language coursework.



## Roadmap

This roadmap is a recommended semester-by-semester plan of study for this major. However, courses designated as critical (!) must be completed in the semester listed to ensure a timely graduation.

Semester One		Credits
!	CHEM 10060 GENERAL CHEMISTRY I (KBS) or CHEM 10970 or HONORS GENERAL CHEMISTRY I (KBS)	4
!	CHEM 10062 GENERAL CHEMISTRY I LABORATORY (KBS) (KLAB)	1
!	MATH 11010 ALGEBRA FOR CALCULUS (KMCR)	3
	UC 10097 DESTINATION KENT STATE: FIRST YEAR EXPERIENCE	1
	Kent Core Requirement	3
	Kent Core Requirement	3
	Credit Hours	15
Semester Two		
!	CHEM 10061 GENERAL CHEMISTRY II (KBS) or CHEM 10971 or HONORS GENERAL CHEMISTRY II (KBS)	4
!	CHEM 10063 GENERAL CHEMISTRY II LABORATORY (KBS) (KLAB)	1
!	MATH 11022 TRIGONOMETRY (KMCR)	3
	Kent Core Requirement	3
	Kent Core Requirement	3
	Credit Hours	14
Semester Three		
!	CHEM 20481 BASIC ORGANIC CHEMISTRY I or CHEM 30481 or ORGANIC CHEMISTRY I	3-4
!	CHEM 30475 ORGANIC CHEMISTRY LABORATORY I (ELR)	1
!	PHY 13001 GENERAL COLLEGE PHYSICS I (KBS)	4
!	PHY 13021 GENERAL COLLEGE PHYSICS LABORATORY I (KBS) (KLAB)	1
!	MATH 12002 ANALYTIC GEOMETRY AND CALCULUS I (KMCR)	5
	Foreign Language	4
	Credit Hours	18
Semester Four		
!	CHEM 20482 BASIC ORGANIC CHEMISTRY II or CHEM 30482 or ORGANIC CHEMISTRY II	2-3
!	CHEM 30301 INORGANIC CHEMISTRY I	2
!	CHEM 30476 ORGANIC CHEMISTRY LABORATORY II	1
!	PHY 13002 GENERAL COLLEGE PHYSICS II (KBS)	4
!	PHY 13022 GENERAL COLLEGE PHYSICS LABORATORY II (KBS) (KLAB)	1
	Foreign Language	4
	Credit Hours	15
Semester Five		
!	CHEM 40567 PHYSICAL CHEMISTRY FOR LIFE SCIENCES	4
	CHEM 30105 ANALYTICAL CHEMISTRY I	3
	CHEM 30107 ANALYTICAL CHEMISTRY LABORATORY I (WIC)	1
	Foreign Language	3
	Kent Core Requirement	3
	Kent Core Requirement	3
	Credit Hours	17

Semester Six		
	CHEM 30284 INTRODUCTORY BIOLOGICAL CHEMISTRY	4
	CHEM 40568 ELEMENTARY PHYSICAL CHEMISTRY LABORATORY	1
	Foreign Language	3
	Kent Core Requirement	3
	College General Requirements	3
	Credit Hours	14
Semester Seven		
!	CHEM 40302 INORGANIC CHEMISTRY II	2
	Chemistry Elective	1-3
	General Electives	12
	Credit Hours	15
Semester Eight		
	General Electives	12
	Credit Hours	12
	Minimum Total Credit Hours:	120

## Chemistry - B.S.

### College of Arts and Sciences

Department of Chemistry and Biochemistry  
208 Williams Hall  
Kent Campus  
330-672-2032  
chem@kent.edu  
www.kent.edu/chemistry

## Description

The Bachelor of Science degree in Chemistry is designed to provide a thorough foundation in the various fields of chemistry and the related sciences. The program is for students planning careers in the chemical industries or governmental laboratories, or who intend to do graduate work in chemistry. Students in the program have the opportunity to participate in an exchange program with the University of Leicester in England.

The Chemistry major comprises the following concentrations:

- The **Biochemistry** concentration provides strong preparation for students interested in pursuing graduate studies in biochemistry or planning a career as a practicing biochemist in industrial research and development, government research laboratories or in academia. It also provides ideal preparation for students intending to pursue a Doctor of Pharmacy degree, having been designed to closely fit the requirements for admission to the Northeastern Ohio Medical University (NEOMED). With careful planning students may transfer to NEOMED after three years at Kent State, using 16 credit hours of courses from NEOMED to complete their Kent State degree requirements. With the selection of appropriate elective courses, this concentration meets the minimum requirements for certification by the American Chemical Society.
- The **Biochemistry–Pre-Medicine/Pre-Osteopathy/Pre-Dentistry** concentration is the recommended track for students intending to go on to medical or dental school.
- The **Chemistry** concentration is designed for students interested in careers as practicing chemists in industrial research and development, in government research laboratories or in academia.

It includes a strong foundation in both chemistry and related disciplines (physics and mathematics) and provides opportunities to pursue advanced chemistry electives. This concentration meets the requirements for certification by the American Chemical Society and is ideal for students who plan to pursue graduate studies in chemistry.

- The **Industrial Chemistry** concentration provides solid background training in the major areas of chemistry, as well as practical training and related experiences in fields sought by local and regional chemical industries.
- The **Materials Chemistry** concentration is recommended for students interested in pursuing graduate study or industrial careers in materials science, including nanotechnology. Its requirements, similar to those of the traditional chemistry concentration, provide an opportunity for more in-depth study in the synthesis and characterization of inorganic and organic materials, including polymers.

### Fully Offered At:

- Kent Campus

## Accreditation

The B.S. degree in Chemistry is accredited by the American Chemical Society (ACS).

## Admission Requirements

The university affirmatively strives to provide educational opportunities and access to students with varied backgrounds, those with special talents and adult students who graduated from high school three or more years ago.

**Freshman Students on the Kent Campus:** The freshman admission policy on the Kent Campus is selective. Admission decisions are based upon the following: cumulative grade point average, ACT and/or SAT scores, strength of high school college preparatory curriculum and grade trends. The Admissions Office at the Kent Campus may defer the admission of students who do not meet admissions criteria but who demonstrate areas of promise for successful college study. Deferred applicants may begin their college coursework at one of seven regional campuses of Kent State University. For more information on admissions, including additional requirements for some academic programs, visit the admissions website for new freshmen.

**Freshman Students on the Regional Campuses:** Kent State campuses at Ashtabula, East Liverpool, Geauga, Salem, Stark, Trumbull and Tuscarawas, as well as the Regional Academic Center in Twinsburg, have open enrollment admission for students who hold a high school diploma, GED or equivalent.

**English Language Proficiency Requirements for International Students:** All international students must provide proof of English language proficiency (unless they meet specific exceptions) by earning a minimum 525 TOEFL score (71 on the Internet-based version), minimum 75 MELAB score, minimum 6.0 IELTS score or minimum 48 PTE score, or by completing the ESL level 112 Intensive Program. For more information on international admission, visit the Office of Global Education's admission website.

**Transfer, Transitioning and Former Students:** For more information about admission criteria for transfer, transitioning and former students, please visit the admissions website.

## Program Learning Outcomes

Graduates of this program will be able to:

Demonstrate the understanding of and an ability to apply the chemical knowledge taught in the courses that comprise the degree.

Develop their abilities to plan and execute chemical experiments through individual investigation or senior honors research/thesis courses.

## University Requirements

All students in a bachelor's degree program at Kent State University must complete the following university requirements for graduation.

**NOTE:** University requirements may be fulfilled in this program by specific course requirements. Please see Program Requirements for details.

Destination Kent State: First Year Experience	1
Course is not required for students with 25 transfer credits, excluding College Credit Plus, or age 21+ at time of admission.	
Diversity Domestic/Global (DIVD/DIVG)	2 courses
Students must successfully complete one domestic and one global course, of which one must be from the Kent Core.	
Experiential Learning Requirement (ELR)	varies
Students must successfully complete one course or approved experience.	
Kent Core (see table below)	36-37
Writing-Intensive Course (WIC)	1 course
Students must earn a minimum C grade in the course.	
Upper-Division Requirement	39 (or 42)
Students must successfully complete 39 upper-division (numbered 30000 to 49999) credit hours to graduate. Students in a B.A. and/or B.S. degree in the College of Arts and Sciences must complete 42 upper-division credit hours.	
Total Credit Hour Requirement	120
Some bachelor's degrees require students to complete more than 120 credit hours.	

## Kent Core Requirements

Kent Core Composition (KCMP)	6
Kent Core Mathematics and Critical Reasoning (KMCR)	3
Kent Core Humanities and Fine Arts (KHUM/KFA) (min one course each)	9
Kent Core Social Sciences (KSS) (must be from two disciplines)	6
Kent Core Basic Sciences (KBS/KLAB) (must include one laboratory)	6-7
Kent Core Additional (KADL)	6
<b>Total Credit Hours:</b>	<b>36-37</b>

## Program Requirements

### Major Requirements

Code	Title	Credit Hours
<b>Major Requirements (courses count in major GPA)</b>		
CHEM 10060	GENERAL CHEMISTRY I (KBS)	4

or CHEM 10970	HONORS GENERAL CHEMISTRY I (KBS)	
CHEM 10061	GENERAL CHEMISTRY II (KBS)	4
or CHEM 10971	HONORS GENERAL CHEMISTRY II (KBS)	
CHEM 10062	GENERAL CHEMISTRY I LABORATORY (KBS) (KLAB)	1
CHEM 10063	GENERAL CHEMISTRY II LABORATORY (KBS) (KLAB)	1
CHEM 30105	ANALYTICAL CHEMISTRY I	3
CHEM 30301	INORGANIC CHEMISTRY I	2
CHEM 30475	ORGANIC CHEMISTRY LABORATORY I (ELR)	1
CHEM 30476	ORGANIC CHEMISTRY LABORATORY II	1
CHEM 30481	ORGANIC CHEMISTRY I	3
CHEM 30482	ORGANIC CHEMISTRY II	3
<b>Additional Requirements (courses do not count in major GPA)</b>		
UC 10097	DESTINATION KENT STATE: FIRST YEAR EXPERIENCE	1
Foreign Language (see Foreign Language College Requirement below)		8
Kent Core Composition		6
Kent Core Humanities and Fine Arts (minimum one course from each) <sup>1</sup>		9
General Electives (total credit hours depends on earning 120 credit hours, including 42 upper-division credit hours) <sup>2</sup>		6
<b>Concentrations</b>		
Choose from the following:		67
Biochemistry		
Biochemistry - Pre-Medicine/Pre-Osteopathy/Pre-Dentistry		
Chemistry		
Industrial Chemistry		
Materials Chemistry		
Minimum Total Credit Hours:		120

<sup>1</sup> PHIL 21001 is recommended for students in the Biochemistry - Pre-Medicine/Pre-Osteopathy/Pre-Dentistry concentration.

<sup>2</sup> The following are recommended for students in the Biochemistry - Pre-Medicine/Pre-Osteopathy/Pre-Dentistry concentration: COMM 15000, ECON 22060, ECON 42086, PSYC 40111, PSYC 41363, SOC 42563.

## Biochemistry Concentration Requirements

Code	Title	Credit Hours
<b>Concentration Requirements (courses count in major GPA)</b>		
BSCI 10120	BIOLOGICAL FOUNDATIONS (KBS) (KLAB)	4
BSCI 30140	CELL BIOLOGY	4
BSCI 30156	ELEMENTS OF GENETICS	3
BSCI 30171	GENERAL MICROBIOLOGY	4
CHEM 30107	ANALYTICAL CHEMISTRY LABORATORY I (WIC) <sup>1</sup>	1
CHEM 40251	ADVANCED BIOLOGICAL CHEMISTRY LABORATORY (WIC)	2
CHEM 40261	PRINCIPLES OF BIOCHEMISTRY I	3
CHEM 40262	PRINCIPLES OF BIOCHEMISTRY II	3
CHEM 40263	PHYSICAL BIOCHEMISTRY	3
CHEM 40567	PHYSICAL CHEMISTRY FOR LIFE SCIENCES	4
CHEM 40568	ELEMENTARY PHYSICAL CHEMISTRY LABORATORY	1
MATH 12021	CALCULUS FOR LIFE SCIENCES <sup>2</sup>	4
MATH 12022	PROBABILITY AND STATISTICS FOR LIFE SCIENCES <sup>2</sup>	3

PHY 13001	GENERAL COLLEGE PHYSICS I (KBS) <sup>3</sup>	4
PHY 13002	GENERAL COLLEGE PHYSICS II (KBS) <sup>3</sup>	4
PHY 13021	GENERAL COLLEGE PHYSICS LABORATORY I (KBS) (KLAB) <sup>3</sup>	1
PHY 13022	GENERAL COLLEGE PHYSICS LABORATORY II (KBS) (KLAB) <sup>3</sup>	1
Concentration Electives (below are recommendations)		9
<b>Strongly suggested electives</b>		
BSCI 40174	IMMUNOLOGY	
BSCI 40220	BIOINFORMATICS	
BSCI 40430	ANIMAL PHYSIOLOGY	
or BSCI 40460	ADVANCED HUMAN PHYSIOLOGY	
BSCI 40462	ADVANCED HUMAN PHYSIOLOGY: READINGS AND CASE STUDIES	
BTEC 40191	SEMINAR: RECENT DEVELOPMENTS IN BIOTECHNOLOGY	
CHEM 40109	BIOANALYTICAL CHEMISTRY	
CHEM 40113	CHEMICAL SEPARATIONS	
CHEM 40295	SPECIAL TOPICS IN BIOCHEMISTRY	
CHEM 40365	BIOLOGICAL INORGANIC CHEMISTRY	
CHEM 40796	INDIVIDUAL INVESTIGATION <sup>4</sup>	

### Other suggested electives

CHEM 30106	ANALYTICAL CHEMISTRY II	
CHEM 30108	ANALYTICAL CHEMISTRY LABORATORY II (WIC)	
CHEM 40110	ANALYTICAL MASS SPECTROMETRY	
CHEM 40116	SPECTROCHEMICAL METHODS OF ANALYSIS	
CHEM 40195	SPECIAL TOPICS IN ANALYTICAL CHEMISTRY	
CHEM 40302	INORGANIC CHEMISTRY II	
CHEM 40364	INTERMEDIATE INORGANIC CHEMISTRY LAB	
CHEM 40395	SPECIAL TOPICS IN INORGANIC CHEMISTRY	
CHEM 40451	ORGANIC MATERIALS CHEMISTRY	
CHEM 40476	SPECTROSCOPIC IDENTIFICATION OF ORGANIC COMPOUNDS	
CHEM 40477	INTERMEDIATE ORGANIC CHEMISTRY LABORATORY	
CHEM 40478	SYNTHESIS OF ORGANIC LIQUID CRYSTALS	
CHEM 40483	INTERMEDIATE ORGANIC CHEMISTRY	
CHEM 40495	SPECIAL TOPICS IN ORGANIC CHEMISTRY	
CHEM 40559	NANOMATERIALS	
CHEM 40571	SURFACE CHEMISTRY	
CHEM 40595	SPECIAL TOPICS IN PHYSICAL CHEMISTRY	

### Additional Requirements (courses do not count in major GPA)

Kent Core Mathematics and Critical Reasoning	3
Kent Core Social Sciences (must be from two disciplines)	6
Minimum Total Credit Hours:	67

<sup>1</sup> A minimum C grade must be earned to fulfill the writing-intensive requirement.

<sup>2</sup> MATH 12002 and MATH 12003 may be substituted as a package in place of MATH 12021 and MATH 12022.

<sup>3</sup> PHY 23101 and PHY 23102 may be substituted as a package, in place of PHY 13001, PHY 13002, PHY 13021, PHY 13022.

<sup>4</sup> Maximum 4 credit hours of CHEM 40796 may be counted towards the concentration electives.

## Biochemistry - Pre-Medicine/Pre-Osteopathy/Pre-Dentistry Concentration Requirements

Code	Title	Credit Hours
<b>Concentration Requirements (courses count in major GPA)</b>		
BSCI 10120	BIOLOGICAL FOUNDATIONS (KBS) (KLAB)	4
BSCI 30140	CELL BIOLOGY	4
BSCI 30156	ELEMENTS OF GENETICS	3
BSCI 30171	GENERAL MICROBIOLOGY	4
BSCI 40430 or BSCI 40460	ANIMAL PHYSIOLOGY ADVANCED HUMAN PHYSIOLOGY	3
CHEM 30107	ANALYTICAL CHEMISTRY LABORATORY I (WIC) 1	1
CHEM 40251	ADVANCED BIOLOGICAL CHEMISTRY LABORATORY (WIC) 1	2
CHEM 40261	PRINCIPLES OF BIOCHEMISTRY I	3
CHEM 40262	PRINCIPLES OF BIOCHEMISTRY II	3
CHEM 40263	PHYSICAL BIOCHEMISTRY	3
CHEM 40567	PHYSICAL CHEMISTRY FOR LIFE SCIENCES	4
CHEM 40568	ELEMENTARY PHYSICAL CHEMISTRY LABORATORY	1
MATH 12021	CALCULUS FOR LIFE SCIENCES <sup>2</sup>	4
MATH 12022	PROBABILITY AND STATISTICS FOR LIFE SCIENCES <sup>2</sup>	3
PHY 13001	GENERAL COLLEGE PHYSICS I (KBS) <sup>3</sup>	4
PHY 13002	GENERAL COLLEGE PHYSICS II (KBS) <sup>3</sup>	4
PHY 13021	GENERAL COLLEGE PHYSICS LABORATORY I (KBS) (KLAB) <sup>3</sup>	1
PHY 13022	GENERAL COLLEGE PHYSICS LABORATORY II (KBS) (KLAB) <sup>3</sup>	1
Concentration Electives, choose from the following:		6
BSCI 30517 or BSCI 30518	HUMAN ANATOMY VERTEBRATE ANATOMY	
BSCI 40174	IMMUNOLOGY	
BSCI 40220	BIOINFORMATICS	
BTEC 40191	SEMINAR: RECENT DEVELOPMENTS IN BIOTECHNOLOGY	
CHEM 30106	ANALYTICAL CHEMISTRY II	
CHEM 40109	BIOANALYTICAL CHEMISTRY	
CHEM 40302	INORGANIC CHEMISTRY II	
CHEM 40365	BIOLOGICAL INORGANIC CHEMISTRY	
CHEM 40477	INTERMEDIATE ORGANIC CHEMISTRY LABORATORY	
CHEM 40483	INTERMEDIATE ORGANIC CHEMISTRY	
CHEM 40796	INDIVIDUAL INVESTIGATION <sup>4</sup>	
<b>Additional Requirements (courses do not count in major GPA)</b>		
Kent Core Mathematics and Critical Reasoning		3
PSYC 11762	GENERAL PSYCHOLOGY (DIVD) (KSS)	3
SOC 12050	INTRODUCTION TO SOCIOLOGY (DIVD) (KSS)	3
Minimum Total Credit Hours:		67

<sup>1</sup> A minimum C grade must be earned to fulfill the writing-intensive requirement.

<sup>2</sup> MATH 12002, MATH 12003 and MATH 30011 may be substituted as a package in place of MATH 12021 and MATH 12022.

<sup>3</sup> PHY 23101 and PHY 23102 may be substituted as a package, instead of PHY 13001, PHY 13002, PHY 13021, PHY 13022.

<sup>4</sup> Maximum 3 credit hours of CHEM 40796 may be counted towards the concentration electives.

## Chemistry Concentration Requirements

Code	Title	Credit Hours
<b>Concentration Requirements (courses count in major GPA)</b>		
CHEM 30106	ANALYTICAL CHEMISTRY II	2
CHEM 30107	ANALYTICAL CHEMISTRY LABORATORY I (WIC) 1	1
CHEM 30108	ANALYTICAL CHEMISTRY LABORATORY II (WIC) 1	2
CHEM 30284	INTRODUCTORY BIOLOGICAL CHEMISTRY	4
CHEM 40302	INORGANIC CHEMISTRY II	2
CHEM 40303	INORGANIC CHEMISTRY III	2
CHEM 40364	INTERMEDIATE INORGANIC CHEMISTRY LAB	1
CHEM 40477	INTERMEDIATE ORGANIC CHEMISTRY LABORATORY	1
CHEM 40483	INTERMEDIATE ORGANIC CHEMISTRY	1
CHEM 40555	PHYSICAL CHEMISTRY I	3
CHEM 40556	PHYSICAL CHEMISTRY II	3
CHEM 40557	PHYSICAL CHEMISTRY LABORATORY	2
CHEM 40568	ELEMENTARY PHYSICAL CHEMISTRY LABORATORY	1
MATH 12002	ANALYTIC GEOMETRY AND CALCULUS I (KMCR)	5
MATH 12003	ANALYTIC GEOMETRY AND CALCULUS II	5
MATH 22005	ANALYTIC GEOMETRY AND CALCULUS III	4
PHY 23101	GENERAL UNIVERSITY PHYSICS I (KBS) (KLAB)	5
PHY 23102	GENERAL UNIVERSITY PHYSICS II (KBS) (KLAB)	5
Advisor-Approved Chemistry Upper-Division Elective (CHEM 40000 level)		3
<b>Additional Requirements (courses do not count in major GPA)</b>		
Kent Core Social Sciences (must be from two disciplines)		6
General Electives		9
Minimum Total Credit Hours:		67

<sup>1</sup> A minimum C grade must be earned to fulfill the writing-intensive requirement.

## Industrial Chemistry Concentration Requirements

Code	Title	Credit Hours
<b>Concentration Requirements (courses count in major GPA)</b>		
CHEM 20050	CAREER PATHWAYS IN CHEMISTRY	1
CHEM 30106	ANALYTICAL CHEMISTRY II	2
CHEM 30107	ANALYTICAL CHEMISTRY LABORATORY I (WIC) 1	1
CHEM 30108	ANALYTICAL CHEMISTRY LABORATORY II (WIC) 1	2
CHEM 40302	INORGANIC CHEMISTRY II	2
CHEM 40364	INTERMEDIATE INORGANIC CHEMISTRY LAB	1
CHEM 40567	PHYSICAL CHEMISTRY FOR LIFE SCIENCES <sup>2</sup>	4
CHEM 40568	ELEMENTARY PHYSICAL CHEMISTRY LABORATORY	1
ECON 22060	PRINCIPLES OF MICROECONOMICS (KSS)	3
MATH 12002	ANALYTIC GEOMETRY AND CALCULUS I (KMCR)	5

MATH 12003	ANALYTIC GEOMETRY AND CALCULUS II	5
MATH 12022	PROBABILITY AND STATISTICS FOR LIFE SCIENCES	3-4
or MATH 22005	ANALYTIC GEOMETRY AND CALCULUS III	
PHY 22564	INTRODUCTION TO MATERIALS PHYSICS	3
PHY 23101	GENERAL UNIVERSITY PHYSICS I (KBS) (KLAB)	5
PHY 23102	GENERAL UNIVERSITY PHYSICS II (KBS) (KLAB)	5
Chemistry Elective, choose from the following:		3
CHEM 40352	INORGANIC MATERIALS CHEMISTRY	
CHEM 40451	ORGANIC MATERIALS CHEMISTRY	
CHEM 40559	NANOMATERIALS	
CHEM 40571	SURFACE CHEMISTRY	
Concentration Electives, choose from the following:		12
ACCT 23020	INTRODUCTION TO FINANCIAL ACCOUNTING	
CHEM 30284	INTRODUCTORY BIOLOGICAL CHEMISTRY	
CHEM 40092	INTERNSHIP IN CHEMISTRY AND BIOCHEMISTRY (ELR) <sup>3</sup>	
or CHEM 40796	INDIVIDUAL INVESTIGATION	
CHEM 40113	CHEMICAL SEPARATIONS	
CHEM 40352	INORGANIC MATERIALS CHEMISTRY	
CHEM 40451	ORGANIC MATERIALS CHEMISTRY	
CHEM 40557	PHYSICAL CHEMISTRY LABORATORY	
CHEM 40559	NANOMATERIALS	
CHEM 40571	SURFACE CHEMISTRY	
ENGR 43080	INDUSTRIAL AND ENVIRONMENTAL SAFETY	
PLST 48401	PATENT LAW	
<b>Additional Requirements (courses do not count in major GPA)</b>		
Kent Core Social Sciences (must be from two disciplines)		3
General Electives		6
Minimum Total Credit Hours:		67

- <sup>1</sup> A minimum C grade must be earned to fulfill the writing-intensive requirement.
- <sup>2</sup> Taking both CHEM 40555 and CHEM 40556 may be substituted in place of CHEM 40567 and 2 credit hours of concentration electives.
- <sup>3</sup> CHEM 40092 is strongly encouraged.

## Materials Chemistry Concentration Requirements

Code	Title	Credit Hours
<b>Concentration Requirements (courses count in major GPA)</b>		
CHEM 30050	INTRODUCTION TO MATERIALS CHEMISTRY	2
CHEM 30106	ANALYTICAL CHEMISTRY II	2
CHEM 30284	INTRODUCTORY BIOLOGICAL CHEMISTRY	4
CHEM 40053	MATERIALS CHEMISTRY LABORATORY	2
CHEM 40302	INORGANIC CHEMISTRY II	2
CHEM 40303	INORGANIC CHEMISTRY III	2
CHEM 40352	INORGANIC MATERIALS CHEMISTRY	3
CHEM 40364	INTERMEDIATE INORGANIC CHEMISTRY LAB	1
CHEM 40451	ORGANIC MATERIALS CHEMISTRY	3
CHEM 40555	PHYSICAL CHEMISTRY I	3
CHEM 40556	PHYSICAL CHEMISTRY II	3
CHEM 40557	PHYSICAL CHEMISTRY LABORATORY	2
MATH 12002	ANALYTIC GEOMETRY AND CALCULUS I (KMCR)	5
MATH 12003	ANALYTIC GEOMETRY AND CALCULUS II	5
MATH 22005	ANALYTIC GEOMETRY AND CALCULUS III	4

PHY 23101	GENERAL UNIVERSITY PHYSICS I (KBS) (KLAB)	5
PHY 23102	GENERAL UNIVERSITY PHYSICS II (KBS) (KLAB)	5
Concentration Electives, choose from the following:		1-2
CHEM 30107	ANALYTICAL CHEMISTRY LABORATORY I (WIC) <sub>1</sub>	
CHEM 30108	ANALYTICAL CHEMISTRY LABORATORY II (WIC) <sub>1</sub>	
CHEM 40477	INTERMEDIATE ORGANIC CHEMISTRY LABORATORY	
CHEM 40483	INTERMEDIATE ORGANIC CHEMISTRY	
CHEM 40568	ELEMENTARY PHYSICAL CHEMISTRY LABORATORY	
CHEM 40571	SURFACE CHEMISTRY	
CHEM 40796	INDIVIDUAL INVESTIGATION	
<b>Additional Requirements (courses do not count in major GPA)</b>		
Kent Core Social Sciences (must be from two disciplines)		6
General Electives		7
Minimum Total Credit Hours:		67

- <sup>1</sup> A minimum C grade must be earned in to fulfill the writing-intensive requirement.

## GRADUATION REQUIREMENTS

Minimum Major GPA	Minimum Overall GPA
2.000	2.000

### Foreign Language College Requirement

- Students pursuing the Bachelor of Science degree in the College of Arts and Sciences must complete 8 credit hours of foreign language.<sup>1</sup>
  - Minimum Elementary I and II of the same language
- <sup>1</sup> All students with prior foreign language experience should take the foreign language placement test to determine the appropriate level at which to start. Some students may begin their university foreign language experience beyond the Elementary I level and will complete the requirement with fewer credit hours and fewer courses. This may be accomplished by: (1) passing a course beyond the Elementary I through Intermediate II level or (2) receiving credit through Credit by Exam (CBE), the College Level Examination Program (CLEP), the Advanced Placement (AP) exam or credit through the International Baccalaureate (IB) program; or (3) being designated a 'native speaker' of a non-English language (consult with the College of Arts and Sciences Advising Office for additional information). When students complete the requirement with fewer than 8 credit hours and two courses, they will complete the remaining hours with general electives.



## Roadmaps

- Biochemistry Concentration
- Biochemistry - Pre-Medicine/Pre-Osteopathy/Pre-Dentistry Concentration
- Chemistry Concentration
- Industrial Chemistry Concentration
- Materials Chemistry Concentration

### BIOCHEMISTRY CONCENTRATION

Semester One		Credits
!	BSCI 10120 BIOLOGICAL FOUNDATIONS (KBS) (KLAB)	4
!	CHEM 10060 GENERAL CHEMISTRY I (KBS) or CHEM 10970 or HONORS GENERAL CHEMISTRY I (KBS)	4
!	CHEM 10062 GENERAL CHEMISTRY I LABORATORY (KBS) (KLAB)	1
!	MATH 12021 CALCULUS FOR LIFE SCIENCES	4
	UC 10097 DESTINATION KENT STATE: FIRST YEAR EXPERIENCE	1
Kent Core Requirement		3
Credit Hours		17
Semester Two		
!	CHEM 10061 GENERAL CHEMISTRY II (KBS) or CHEM 10971 or HONORS GENERAL CHEMISTRY II (KBS)	4
!	CHEM 10063 GENERAL CHEMISTRY II LABORATORY (KBS) (KLAB)	1
!	MATH 12022 PROBABILITY AND STATISTICS FOR LIFE SCIENCES	3
	Foreign Language	4
Kent Core Requirement		3
Credit Hours		15
Semester Three		
!	BSCI 30156 ELEMENTS OF GENETICS	3
!	CHEM 30475 ORGANIC CHEMISTRY LABORATORY I (ELR)	1
!	CHEM 30481 ORGANIC CHEMISTRY I	3
!	PHY 13001 GENERAL COLLEGE PHYSICS I (KBS)	4
!	PHY 13021 GENERAL COLLEGE PHYSICS LABORATORY I (KBS) (KLAB)	1
	Foreign Language	4
Credit Hours		16
Semester Four		
!	BSCI 30140 CELL BIOLOGY	4
!	CHEM 30301 INORGANIC CHEMISTRY I	2
!	CHEM 30476 ORGANIC CHEMISTRY LABORATORY II	1
!	CHEM 30482 ORGANIC CHEMISTRY II	3
!	PHY 13002 GENERAL COLLEGE PHYSICS II (KBS)	4
!	PHY 13022 GENERAL COLLEGE PHYSICS LABORATORY II (KBS) (KLAB)	1
Credit Hours		15
Semester Five		
!	CHEM 30105 ANALYTICAL CHEMISTRY I	3
!	CHEM 30107 ANALYTICAL CHEMISTRY LABORATORY I (WIC)	1
!	CHEM 40261 PRINCIPLES OF BIOCHEMISTRY I	3
!	CHEM 40567 PHYSICAL CHEMISTRY FOR LIFE SCIENCES	4

Kent Core Requirement		3
Credit Hours		14
Semester Six		
!	BSCI 30171 GENERAL MICROBIOLOGY	4
!	CHEM 40568 ELEMENTARY PHYSICAL CHEMISTRY LABORATORY	1
!	CHEM 40262 PRINCIPLES OF BIOCHEMISTRY II	3
Kent Core Requirement		3
Kent Core Requirement		3
Credit Hours		14
Semester Seven		
Concentration Electives		6
Kent Core Requirement		3
Kent Core Requirement		3
Kent Core Requirement		3
Credit Hours		15
Semester Eight		
!	CHEM 40251 ADVANCED BIOLOGICAL CHEMISTRY LABORATORY (WIC)	2
!	CHEM 40263 PHYSICAL BIOCHEMISTRY	3
Concentration Elective		3
General Electives		6
Credit Hours		14
Minimum Total Credit Hours:		120

## Biochemistry - Pre-Medicine/Pre-Osteopathy/Pre-Dentistry Concentration

This roadmap is a recommended semester-by-semester plan of study for this major. However, courses designated as critical (!) must be completed in the semester listed to ensure a timely graduation.

Semester One		Credits
!	BSCI 10120 BIOLOGICAL FOUNDATIONS (KBS) (KLAB)	4
!	CHEM 10060 GENERAL CHEMISTRY I (KBS) or CHEM 10970 or HONORS GENERAL CHEMISTRY I (KBS)	4
!	CHEM 10062 GENERAL CHEMISTRY I LABORATORY (KBS) (KLAB)	1
!	MATH 12021 CALCULUS FOR LIFE SCIENCES	4
	PSYC 11762 GENERAL PSYCHOLOGY (DIVD) (KSS)	3
	UC 10097 DESTINATION KENT STATE: FIRST YEAR EXPERIENCE	1
Credit Hours		17
Semester Two		
!	CHEM 10061 GENERAL CHEMISTRY II (KBS) or CHEM 10971 or HONORS GENERAL CHEMISTRY II (KBS)	4
!	CHEM 10063 GENERAL CHEMISTRY II LABORATORY (KBS) (KLAB)	1
	SOC 12050 INTRODUCTION TO SOCIOLOGY (DIVD) (KSS)	3
!	MATH 12022 PROBABILITY AND STATISTICS FOR LIFE SCIENCES	3
Foreign Language		4
Credit Hours		15
Semester Three		
!	BSCI 30156 ELEMENTS OF GENETICS	3
!	CHEM 30475 ORGANIC CHEMISTRY LABORATORY I (ELR)	1
!	CHEM 30481 ORGANIC CHEMISTRY I	3
!	PHY 13001 GENERAL COLLEGE PHYSICS I (KBS)	4
!	PHY 13021 GENERAL COLLEGE PHYSICS LABORATORY I (KBS) (KLAB)	1
Foreign Language		4
Credit Hours		16
Semester Four		
!	BSCI 30140 CELL BIOLOGY	4
!	CHEM 30301 INORGANIC CHEMISTRY I	2
!	CHEM 30476 ORGANIC CHEMISTRY LABORATORY II	1
!	CHEM 30482 ORGANIC CHEMISTRY II	3
!	PHY 13002 GENERAL COLLEGE PHYSICS II (KBS)	4
!	PHY 13022 GENERAL COLLEGE PHYSICS LABORATORY II (KBS) (KLAB)	1
Credit Hours		15
Semester Five		
!	BSCI 30171 GENERAL MICROBIOLOGY	4
!	CHEM 40261 PRINCIPLES OF BIOCHEMISTRY I	3
!	CHEM 40567 PHYSICAL CHEMISTRY FOR LIFE SCIENCES	4
Kent Core Requirement		3
Credit Hours		14
Semester Six		
!	BSCI 40430 ANIMAL PHYSIOLOGY or BSCI 40460 or ADVANCED HUMAN PHYSIOLOGY	3
!	CHEM 40262 PRINCIPLES OF BIOCHEMISTRY II	3

!	CHEM 40568 ELEMENTARY PHYSICAL CHEMISTRY LABORATORY	1
Kent Core Requirement		3
Kent Core Requirement		3
Credit Hours		13
Semester Seven		
!	CHEM 30105 ANALYTICAL CHEMISTRY I	3
!	CHEM 30107 ANALYTICAL CHEMISTRY LABORATORY I (WIC)	1
Concentration Electives		3
Kent Core Requirement		3
Kent Core Requirement		3
Kent Core Requirement		3
Credit Hours		16
Semester Eight		
!	CHEM 40251 ADVANCED BIOLOGICAL CHEMISTRY LABORATORY (WIC)	2
!	CHEM 40263 PHYSICAL BIOCHEMISTRY	3
Concentration Electives		3
General Electives		6
Credit Hours		14
Minimum Total Credit Hours:		120

## Chemistry Concentration

This roadmap is a recommended semester-by-semester plan of study for this major. However, courses designated as critical (!) must be completed in the semester listed to ensure a timely graduation.

Semester One		Credits
!	CHEM 10060 or CHEM 10970	GENERAL CHEMISTRY I (KBS) or HONORS GENERAL CHEMISTRY I (KBS) 4
!	CHEM 10062	GENERAL CHEMISTRY I LABORATORY (KBS) (KLAB) 1
!	MATH 12002	ANALYTIC GEOMETRY AND CALCULUS I (KMCR) 5
	UC 10097	DESTINATION KENT STATE: FIRST YEAR EXPERIENCE 1
	Kent Core Requirement	3
Credit Hours		14
Semester Two		
!	CHEM 10061 or CHEM 10971	GENERAL CHEMISTRY II (KBS) or HONORS GENERAL CHEMISTRY II (KBS) 4
!	CHEM 10063	GENERAL CHEMISTRY II LABORATORY (KBS) (KLAB) 1
!	MATH 12003	ANALYTIC GEOMETRY AND CALCULUS II 5
	Kent Core Requirement	3
	Kent Core Requirement	3
Credit Hours		16
Semester Three		
!	CHEM 30475	ORGANIC CHEMISTRY LABORATORY I (ELR) 1
!	CHEM 30481	ORGANIC CHEMISTRY I 3
!	MATH 22005	ANALYTIC GEOMETRY AND CALCULUS III 4
!	PHY 23101	GENERAL UNIVERSITY PHYSICS I (KBS) (KLAB) 5
	Kent Core Requirement	3
Credit Hours		16
Semester Four		
!	CHEM 30301	INORGANIC CHEMISTRY I 2
!	CHEM 30476	ORGANIC CHEMISTRY LABORATORY II 1
!	CHEM 30482	ORGANIC CHEMISTRY II 3
!	PHY 23102	GENERAL UNIVERSITY PHYSICS II (KBS) (KLAB) 5
	Kent Core Requirement	3
Credit Hours		14
Semester Five		
!	CHEM 30105	ANALYTICAL CHEMISTRY I 3
!	CHEM 30107	ANALYTICAL CHEMISTRY LABORATORY I (WIC) 1
!	CHEM 40477	INTERMEDIATE ORGANIC CHEMISTRY LABORATORY 1
!	CHEM 40483	INTERMEDIATE ORGANIC CHEMISTRY 1
!	CHEM 40555	PHYSICAL CHEMISTRY I 3
	Foreign Language	4
	Kent Core Requirement	3
Credit Hours		16
Semester Six		
!	CHEM 30106	ANALYTICAL CHEMISTRY II 2
!	CHEM 30108	ANALYTICAL CHEMISTRY LABORATORY II (WIC) 2
!	CHEM 40556	PHYSICAL CHEMISTRY II 3
!	CHEM 40568	ELEMENTARY PHYSICAL CHEMISTRY LABORATORY 1
	Foreign Language	4

Kent Core Requirement		3
Credit Hours		15
Semester Seven		
!	CHEM 40302	INORGANIC CHEMISTRY II 2
!	CHEM 40557	PHYSICAL CHEMISTRY LABORATORY 2
	Chemistry Upper-Division Elective (CHEM 40000 level)	3
	General Electives	6
Credit Hours		13
Semester Eight		
!	CHEM 30284	INTRODUCTORY BIOLOGICAL CHEMISTRY 4
!	CHEM 40303	INORGANIC CHEMISTRY III 2
!	CHEM 40364	INTERMEDIATE INORGANIC CHEMISTRY LAB 1
	General Electives	9
Credit Hours		16
Minimum Total Credit Hours:		120

**Industrial Chemistry Concentration**

<b>Semester One</b>		<b>Credits</b>
!	CHEM 10060 GENERAL CHEMISTRY I (KBS) or CHEM 10970 or HONORS GENERAL CHEMISTRY I (KBS)	4
!	CHEM 10062 GENERAL CHEMISTRY I LABORATORY (KBS) (KLAB)	1
!	MATH 12002 ANALYTIC GEOMETRY AND CALCULUS I (KMCR)	5
	UC 10097 DESTINATION KENT STATE: FIRST YEAR EXPERIENCE	1
	Kent Core Requirement	3
	Credit Hours	14
<b>Semester Two</b>		
!	CHEM 10061 GENERAL CHEMISTRY II (KBS) or CHEM 10971 or HONORS GENERAL CHEMISTRY II (KBS)	4
!	CHEM 10063 GENERAL CHEMISTRY II LABORATORY (KBS) (KLAB)	1
!	MATH 12003 ANALYTIC GEOMETRY AND CALCULUS II	5
	Kent Core Requirement	3
	Kent Core Requirement	3
	Credit Hours	16
<b>Semester Three</b>		
!	CHEM 30475 ORGANIC CHEMISTRY LABORATORY I (ELR)	1
!	CHEM 30481 ORGANIC CHEMISTRY I	3
!	MATH 12022 PROBABILITY AND STATISTICS FOR LIFE SCIENCES or MATH 22005 or ANALYTIC GEOMETRY AND CALCULUS III	3
!	PHY 23101 GENERAL UNIVERSITY PHYSICS I (KBS) (KLAB)	5
	Kent Core Requirement	3
	Credit Hours	15
<b>Semester Four</b>		
!	CHEM 20050 CAREER PATHWAYS IN CHEMISTRY	1
!	CHEM 30301 INORGANIC CHEMISTRY I	2
!	CHEM 30476 ORGANIC CHEMISTRY LABORATORY II	1
!	CHEM 30482 ORGANIC CHEMISTRY II	3
!	PHY 23102 GENERAL UNIVERSITY PHYSICS II (KBS) (KLAB)	5
	ECON 22060 PRINCIPLES OF MICROECONOMICS (KSS)	3
	Credit Hours	15
<b>Semester Five</b>		
!	CHEM 30105 ANALYTICAL CHEMISTRY I	3
!	CHEM 30107 ANALYTICAL CHEMISTRY LABORATORY I (WIC)	1
!	CHEM 40302 INORGANIC CHEMISTRY II	2
!	CHEM 40567 PHYSICAL CHEMISTRY FOR LIFE SCIENCES	4
	Foreign Language	4
	Credit Hours	14
<b>Semester Six</b>		
!	CHEM 30106 ANALYTICAL CHEMISTRY II	2
!	CHEM 30108 ANALYTICAL CHEMISTRY LABORATORY II (WIC)	2
!	CHEM 40568 ELEMENTARY PHYSICAL CHEMISTRY LABORATORY	1
!	PHY 22564 INTRODUCTION TO MATERIALS PHYSICS	3
	Concentration Elective	3
	Foreign Language	4
	Credit Hours	15
<b>Semester Seven</b>		
	Chemistry Elective	3
	Concentration Electives	6

Kent Core Requirement	3	
Kent Core Requirement	3	
Credit Hours	15	
<b>Semester Eight</b>		
!	CHEM 40364 INTERMEDIATE INORGANIC CHEMISTRY LAB	1
	Concentration Elective	3
	General Electives	12
	Credit Hours	16
	Minimum Total Credit Hours:	120

## Materials Chemistry Concentration

This roadmap is a recommended semester-by-semester plan of study for this major. However, courses designated as critical (!) must be completed in the semester listed to ensure a timely graduation.

Semester One			Credits
!	CHEM 10060 or CHEM 10970	GENERAL CHEMISTRY I (KBS) or HONORS GENERAL CHEMISTRY I (KBS)	4
!	CHEM 10062	GENERAL CHEMISTRY I LABORATORY (KBS) (KLAB)	1
!	MATH 12002	ANALYTIC GEOMETRY AND CALCULUS I (KMCR)	5
	UC 10097	DESTINATION KENT STATE: FIRST YEAR EXPERIENCE	1
	Kent Core Requirement		3
	Credit Hours		14
Semester Two			Credits
!	CHEM 10061 or CHEM 10971	GENERAL CHEMISTRY II (KBS) or HONORS GENERAL CHEMISTRY II (KBS)	4
!	CHEM 10063	GENERAL CHEMISTRY II LABORATORY (KBS) (KLAB)	1
!	MATH 12003	ANALYTIC GEOMETRY AND CALCULUS II	5
	Kent Core Requirement		3
	Kent Core Requirement		3
	Credit Hours		16
Semester Three			Credits
!	CHEM 30475	ORGANIC CHEMISTRY LABORATORY I (ELR)	1
!	CHEM 30481	ORGANIC CHEMISTRY I	3
!	MATH 22005	ANALYTIC GEOMETRY AND CALCULUS III	4
!	PHY 23101	GENERAL UNIVERSITY PHYSICS I (KBS) (KLAB)	5
	Kent Core Requirement		3
	Credit Hours		16
Semester Four			Credits
!	CHEM 30050	INTRODUCTION TO MATERIALS CHEMISTRY	2
!	CHEM 30301	INORGANIC CHEMISTRY I	2
!	CHEM 30476	ORGANIC CHEMISTRY LABORATORY II	1
!	CHEM 30482	ORGANIC CHEMISTRY II	3
!	PHY 23102	GENERAL UNIVERSITY PHYSICS II (KBS) (KLAB)	5
	Kent Core Requirement		3
	Credit Hours		16
Semester Five			Credits
!	CHEM 30105	ANALYTICAL CHEMISTRY I	3
!	CHEM 40302	INORGANIC CHEMISTRY II	2
!	CHEM 40451	ORGANIC MATERIALS CHEMISTRY	3
!	CHEM 40555	PHYSICAL CHEMISTRY I	3
	Foreign Language		4
	Credit Hours		15
Semester Six			Credits
!	CHEM 40303	INORGANIC CHEMISTRY III	2
!	CHEM 40352	INORGANIC MATERIALS CHEMISTRY	3
!	CHEM 40364	INTERMEDIATE INORGANIC CHEMISTRY LAB	1
!	CHEM 40556	PHYSICAL CHEMISTRY II	3
	Foreign Language		4
	Kent Core Requirement		3
	Credit Hours		16
Semester Seven			Credits
!	CHEM 40557	PHYSICAL CHEMISTRY LABORATORY	2

Kent Core Requirement	3	
Chemistry Electives	1-2	
General Electives	7	
Credit Hours	13	
Semester Eight		
!	CHEM 30106 ANALYTICAL CHEMISTRY II	2
!	CHEM 30284 INTRODUCTORY BIOLOGICAL CHEMISTRY	4
!	CHEM 40053 MATERIALS CHEMISTRY LABORATORY	2
	General Electives	6
	Credit Hours	14
Minimum Total Credit Hours:		120

## Chemistry - M.A.

### College of Arts and Sciences

Department of Chemistry and Biochemistry

210 Williams Hall

Kent Campus

330-672-2032

chem@kent.edu

www.kent.edu/chemistry

## Description

The Master of Arts degree in Chemistry is for students interested in gaining additional knowledge of chemistry and biochemistry beyond the bachelor's degree. This non-thesis degree program is flexible and can be taken on a full-time or part-time basis. Several course sequences have been designed for students interested in career advancement. The biochemistry interest area is recommended for students seeking to further develop their academic background in biochemistry and chemistry prior to applying to medical school or dental school. The industrial chemistry interest area is ideal for students seeking additional preparation for employment in the chemical industry. Current and future K-12 educators may pursue the chemical education interest area for advance chemical instruction including chemistry pedagogy.

### Fully Offered At:

- Kent Campus

## Admission Requirements

- Bachelor's degree from an accredited college or university for unconditional admission
- Completion of undergraduate courses consisting of one year each in analytical chemistry or biochemistry, organic chemistry, physical chemistry, calculus and physics is expected
- Minimum 3.000 undergraduate GPA on a 4.000 point scale for unconditional admission
- Official transcript(s)
- Goal statement
- English language proficiency - all international students must provide proof of English language proficiency (unless they meet specific exceptions) by earning one of the following:
  - Minimum 525 TOEFL PBT score (paper-based version)
  - Minimum 71 TOEFL IBT score (Internet-based version)
  - Minimum 74 MELAB score
  - Minimum 6.0 IELTS score



- Minimum 50 PTE score
- Minimum 100 Duolingo English Test score

For more information about graduate admissions, please visit the Graduate Studies admission website. For more information on international admission, visit the Office of Global Education's admission website.

## Program Learning Outcomes

Graduates of this program will be able to:

1. Demonstrate a core knowledge and understanding of chemical and/or biochemical concepts.
2. Demonstrate a depth of knowledge of specific topics in chemistry and/or biochemistry and/or chemical education.
3. Demonstrate critical thinking and problem solving skills in chemistry and/or biochemistry.
4. Effectively and clearly communicate chemical and/or biochemical concepts and knowledge.

## Program Requirements

### Major Requirements

Code	Title	Credit Hours
<b>Major Requirements</b>		
CHEM 60099	MASTERS CAPSTONE PROJECT	6
Approved 50000 level Chemistry (CHEM) Courses <sup>1</sup>		10-15
Approved 60000 level Courses <sup>2</sup>		9-14
Minimum Total Credit Hours:		30

- <sup>1</sup> Minimum 21 credit hours of classroom courses are required. Students select courses with their advisor. Suggested coursework for the biochemistry interest area includes CHEM 50109, CHEM 50261, CHEM 50262, CHEM 50263, and CHEM 50365. Suggested coursework for the chemical education interest area includes CHEM 50093 and CHEM 50795. Suggested coursework for the industrial chemistry interest area includes CHEM 50093, CHEM 50352, CHEM 50451, CHEM 50571 and CHEM 50559.
- <sup>2</sup> At least half of the required credit hours must be taken at the 60000 level. Suggested course work for the chemical education interest area includes CHEM 60894.

## Chemistry - M.S.

### College of Arts and Sciences

Department of Chemistry and Biochemistry  
210 Williams Hall  
Kent Campus  
330-672-2032  
chem@kent.edu  
www.kent.edu/chemistry

## Description

The Master of Science degree in Chemistry provides opportunity in research in the areas of analytical, inorganic, organic and physical chemistry, as well as biochemistry. Many of the research topics are built around interdisciplinary themes in biomedical research (bioanalytical, bioinorganic and biophysical chemistry) and materials science (nanomaterials, liquid crystals, photonic materials, spectroscopy, surface science).

### Fully Offered At:

- Kent Campus

## Admission Requirements

- Bachelor's degree from an accredited college or university for unconditional admission
- Minimum 3.000 undergraduate GPA on a 4.000 point scale for unconditional admission
- Official transcript(s)
- Goal statement
- Three letters of recommendation
- English language proficiency - all international students must provide proof of English language proficiency (unless they meet specific exceptions) by earning one of the following:
  - Minimum 525 TOEFL PBT score (paper-based version)
  - Minimum 71 TOEFL IBT score (Internet-based version)
  - Minimum 74 MELAB score
  - Minimum 6.0 IELTS score
  - Minimum 50 PTE score
  - Minimum 100 Duolingo English Test score

For more information about graduate admissions, please visit the Graduate Studies admission website. For more information on international admission, visit the Office of Global Education's admission website.

## Program Learning Outcomes

Graduates of this program will be able to:

1. Demonstrate an improved knowledge of a specialization within chemistry.
2. Plan and execute chemical experiments.

## Program Requirements

### Major Requirements

Code	Title	Credit Hours
<b>Major Requirements</b> <sup>1</sup>		
CHEM 60199	THESIS I <sup>1</sup>	6
CHEM 60894	COLLEGE TEACHING OF CHEMISTRY	1
Chemistry Electives <sup>2,3,4</sup>		19
Chemistry Seminar Electives, choose from the following:		2
CHEM 62191	SEMINAR: ANALYTICAL CHEMISTRY	
CHEM 62291	SEMINAR: BIOCHEMISTRY	
CHEM 62391	SEMINAR: INORGANIC CHEMISTRY	
CHEM 62491	SEMINAR: ORGANIC CHEMISTRY	
CHEM 62591	SEMINAR: PHYSICAL CHEMISTRY	

Chemistry Seminars in Development/Problem Solving Electives, choose from the following:

CHEM 60291	SEMINAR: RECENT DEVELOPMENTS IN BIOCHEMISTRY
CHEM 60391	SEMINAR: RECENT DEVELOPMENTS IN INORGANIC CHEMISTRY
CHEM 60591	SEMINAR: RECENT DEVELOPMENTS IN PHYSICAL CHEMISTRY
CHEM 61191	SEMINAR: PROBLEM SOLVING IN ANALYTICAL CHEMISTRY
CHEM 61491	SEMINAR: PROBLEM SOLVING IN ORGANIC CHEMISTRY

Minimum Total Credit Hours: 30

<sup>1</sup> A thesis presenting and interpreting the results of original research is required. The Department of Chemistry and Biochemistry considers research to be a fundamental part of the M.S. degree. Areas in which research may be carried out are analytical chemistry, biochemistry, inorganic chemistry, organic chemistry and physical chemistry. The thesis must be successfully defended in an oral examination before the student's advisory committee.

<sup>2</sup> Minimum 13 credit hours of graduate chemistry classroom courses are required; one of these courses must be outside the major area.

<sup>3</sup> At least half of the required credit hours must be taken at the 60000 level.

<sup>4</sup> The following courses may not be used to satisfy the requirements of the M.S. degree: CHEM 50166, CHEM 50266, CHEM 50366, CHEM 50466 and CHEM 50566.

## Graduation Requirements

- Minimum 18 credit hours must be for graduate credit other than research and thesis.

## Chemistry - Minor

### College of Arts and Sciences

Department of Chemistry and Biochemistry  
208 Williams Hall  
Kent Campus  
330-672-2032  
chem@kent.edu  
www.kent.edu/chemistry

## Description

The Chemistry minor provides a solid background in chemistry and biochemistry, which can be individually tailored to complement major studies in other sciences, education and business.

### Fully Offered At:

- Kent Campus

## Admission Requirements

Admission to a minor is open to students declared in a bachelor's degree, the A.A.B. or A.A.S. degree or the A.T.S. degree (not Individualized Program major). Students declared only in the A.A. or A.S. degree or the A.T.S. degree in Individualized Program may not declare a minor. Students may not pursue a minor and a major in the same discipline.

## Minor Requirements

Code	Title	Credit Hours
<b>Minor Requirements</b>		
CHEM 10060	GENERAL CHEMISTRY I (KBS)	4
or CHEM 10970	HONORS GENERAL CHEMISTRY I (KBS)	
CHEM 10061	GENERAL CHEMISTRY II (KBS)	4
or CHEM 10971	HONORS GENERAL CHEMISTRY II (KBS)	
CHEM 10062	GENERAL CHEMISTRY I LABORATORY (KBS) (KLAB)	1
CHEM 10063	GENERAL CHEMISTRY II LABORATORY (KBS) (KLAB)	1
CHEM 30301	INORGANIC CHEMISTRY I	2
CHEM 30481	ORGANIC CHEMISTRY I	4-6
& CHEM 30482	and ORGANIC CHEMISTRY II	
or CHEM 20481	BASIC ORGANIC CHEMISTRY I	
Minor Electives, choose from the following:		7-9
CHEM 20482	BASIC ORGANIC CHEMISTRY II	
CHEM 30105	ANALYTICAL CHEMISTRY I	
CHEM 30106	ANALYTICAL CHEMISTRY II	
CHEM 30107	ANALYTICAL CHEMISTRY LABORATORY I (WIC)	
CHEM 30108	ANALYTICAL CHEMISTRY LABORATORY II (WIC)	
CHEM 30284	INTRODUCTORY BIOLOGICAL CHEMISTRY <sup>3</sup>	
or CHEM 40245	BIOCHEMICAL FOUNDATIONS OF MEDICINE	
or CHEM 40261	PRINCIPLES OF BIOCHEMISTRY I	
CHEM 30475	ORGANIC CHEMISTRY LABORATORY I (ELR)	
CHEM 30476	ORGANIC CHEMISTRY LABORATORY II	
CHEM 40109	BIOANALYTICAL CHEMISTRY	
CHEM 40116	SPECTROCHEMICAL METHODS OF ANALYSIS	
CHEM 40248	ADVANCED BIOLOGICAL CHEMISTRY	
or CHEM 40262	PRINCIPLES OF BIOCHEMISTRY II	
CHEM 40251	ADVANCED BIOLOGICAL CHEMISTRY LABORATORY (WIC)	
CHEM 40263	PHYSICAL BIOCHEMISTRY	
CHEM 40302	INORGANIC CHEMISTRY II	
CHEM 40352	INORGANIC MATERIALS CHEMISTRY	
CHEM 40365	BIOLOGICAL INORGANIC CHEMISTRY	
CHEM 40451	ORGANIC MATERIALS CHEMISTRY	
CHEM 40476	SPECTROSCOPIC IDENTIFICATION OF ORGANIC COMPOUNDS	
CHEM 40483	INTERMEDIATE ORGANIC CHEMISTRY	
CHEM 40555	PHYSICAL CHEMISTRY I <sup>1</sup>	
CHEM 40556	PHYSICAL CHEMISTRY II <sup>1</sup>	
CHEM 40559	NANOMATERIALS	
CHEM 40567	PHYSICAL CHEMISTRY FOR LIFE SCIENCES <sup>1</sup>	
CHEM 40568	ELEMENTARY PHYSICAL CHEMISTRY LABORATORY	
CHEM 40571	SURFACE CHEMISTRY	

Minimum Total Credit Hours: 25

<sup>1</sup> Students who complete CHEM 40555 or CHEM 40556 may not take CHEM 40567.

## Graduation Requirements

Minimum Minor GPA	Minimum Overall GPA
2.000	2.000

- Students must complete at least two upper-division (30000 or 40000 level) courses in the minor at Kent State on a graded basis (A-F).
- Minimum 6 credit hours in the minor must be upper-division coursework (30000 and 40000 level).
- Minimum 6 credit hours in the minor must be outside of the course requirements for any major or other minor the student is pursuing.
- Minimum 50 percent of the total credit hours for the minor must be taken at Kent State (in residence).

## Chemistry - Ph.D.

### College of Arts and Sciences

Department of Chemistry and Biochemistry

210 Williams Hall

Kent Campus

330-672-2032

chem@kent.edu

www.kent.edu/chemistry

## Description

The Ph.D. degree in Chemistry provides students with opportunities for research in the areas of analytical, inorganic, organic and physical chemistry, as well as biochemistry. Many of the research topics are built around interdisciplinary themes in biomedical research (bioanalytical, bioinorganic and biophysical chemistry) and materials science (nanomaterials, liquid crystals, photonic materials, spectroscopy, surface science).

### Fully Offered At:

- Kent Campus

## Admission Requirements

- Bachelor's degree or higher from an accredited college or university for unconditional admission
- Minimum 3.000 undergraduate GPA on a 4.000 point scale for unconditional admission
- Minimum 3.250 graduate GPA on a 4.000 point scale for unconditional admission
- Completion of undergraduate courses consisting of one year each in analytical chemistry or biochemistry, organic chemistry, physical chemistry, calculus and physics is expected
- Official transcript(s)
- Goal statement
- Three letters of recommendation
- English language proficiency - all international students must provide proof of English language proficiency (unless they meet specific exceptions) by earning one of the following:
  - Minimum 525 TOEFL PBT score (paper-based version)
  - Minimum 71 TOEFL IBT score (Internet-based version)
  - Minimum 74 MELAB score
  - Minimum 6.0 IELTS score

- Minimum 50 PTE score
- Minimum 100 Duolingo English Test score

For more information about graduate admissions, please visit the Graduate Studies admission website. For more information on international admission, visit the Office of Global Education's admission website.

- <sup>1</sup> Completion of undergraduate courses consisting of one year each in analytical chemistry or biochemistry, organic chemistry, physical chemistry, calculus and physics is expected.

## Program Learning Outcomes

Graduates of this program will be able to:

1. Demonstrate an improved knowledge of a specialization within chemistry.
2. Plan and execute chemical experiments.

## Program Requirements

### Major Requirements

Code	Title	Credit Hours
<b>Major Requirements</b>		
CHEM 70894	COLLEGE TEACHING OF CHEMISTRY	1
CHEM 80199	DISSERTATION I <sup>1</sup>	30
Chemistry Electives		21
Chemistry Seminar Electives, choose from the following:		4
CHEM 72191	SEMINAR: ANALYTICAL CHEMISTRY	
CHEM 72391	SEMINAR: INORGANIC CHEMISTRY	
CHEM 72491	SEMINAR: ORGANIC CHEMISTRY	
CHEM 72591	SEMINAR: PHYSICAL CHEMISTRY	
Chemistry Seminars in Development/Problem Solving Electives, choose from the following:		4
CHEM 70291	SEMINAR: RECENT DEVELOPMENTS IN BIOCHEMISTRY	
CHEM 70391	SEMINAR: RECENT DEVELOPMENTS IN INORGANIC CHEMISTRY	
CHEM 70591	SEMINAR: RECENT DEVELOPMENTS IN PHYSICAL CHEMISTRY	
CHEM 71191	SEMINAR: PROBLEM SOLVING IN ANALYTICAL CHEMISTRY	
CHEM 71491	SEMINAR: PROBLEM SOLVING IN ORGANIC CHEMISTRY	
<b>Minimum Total Credit Hours for Post-Baccalaureate Students</b>		<b>90</b>
<b>Minimum Total Credit Hours for Post-Master's Students</b>		<b>60</b>

- <sup>1</sup> Each doctoral candidate, upon admission to candidacy, must register for CHEM 80199 for a total of 30 credit hours. It is expected that a doctoral candidate will continuously register for Dissertation I, and thereafter CHEM 80299, each semester, until all requirements for the degree have been met.

### Candidacy for Degree

To be admitted to candidacy for the doctoral degree, the student must pass a written examination in the field of specialization, the form and time of the examination being determined by each division (analytical chemistry, biochemistry, inorganic chemistry, organic chemistry or physical chemistry). Those failing this examination may repeat the

examination once. After passing the written examination, the student must present a detailed written proposal for his/her dissertation research. The successful oral defense of this proposal and its acceptance by the advisory committee admits the student to candidacy for the Ph.D. degree.

## Department of Computer Science

### College of Arts and Sciences

Department of Computer Science  
241 Mathematics and Computer Science Building  
Kent Campus  
330-672-9980  
depsec@cs.kent.edu  
www.kent.edu/cs

## Undergraduate Programs

- Computer Science - B.A.
- Computer Science - B.S.

## Minors

- Computer Science

## Graduate Programs

- Computer Science - M.A.
- Computer Science - M.S.
- Computer Science - Ph.D.

## Department of Computer Science Faculty

- Allouzi, Maha A. (2013), Lecturer
- Bansal, Arvind K. (1988), Professor, Ph.D., Case Western Reserve University, 1985
- Dragan, Feodor F. (2000), Professor, Ph.D., Belarus State University
- Ghazinour Naini, Kambiz (2015), Assistant Professor, Ph.D., University of Calgary, 2012
- Guan, Qiang (2018), Assistant Professor, M.S., University of North Texas, 2008
- Guercio, Angela (1999), Associate Professor, Ph.D., Kent State University, 2004
- Jin, Ruoming (2005), Professor, Ph.D., The Ohio State University, 2001
- Khan, Javed I. (1997), Professor & Department Chair, Ph.D., University of Hawaii-Manoa, 1995
- Kim, JungYoon (2019), Assistant Professor, Ph.D., Penn State University, 2014
- Kim, Kwangtaek (2019), Assistant Professor, Ph.D., Purdue University, 2010
- Kim, Jong-Hoon (2017), Assistant Professor
- Lian, Xiang (2016), Assistant Professor, Ph.D., Hong Kong University Of Science and Technology, 2009
- Lu, Cheng-Chang (1988), Professor, Ph.D., Southern Methodist University, 1988
- Maha, Allouzi A. (2013), Lecturer
- Maletic, Jonathan I. (2001), Professor, Ph.D., Wayne State University, 1995

- Melton, Austin C. (1996), Professor, Ph.D., Kansas State University, 1980
- Nesterenko, Mikhail (1998), Professor, Ph.D., Kansas State University, 1998
- Peyravi, Hassan M. (1985), Professor, Ph.D., University of Oklahoma, 1995
- Samba, Augustine S. (2001), Professor, Ph.D., University of Liverpool, 1983
- Sharma, Gokarna (2015), Assistant Professor, Ph.D., Louisiana State University, 2014
- Volkert, Gwenn L. (2001), Associate Professor
- Walker, Robert A. (1996), Professor, Ph.D., Carnegie Mellon University, 1988
- Younghun, Chae (2016), Assistant Professor, Ph.D., University of Rhode Island, 2017
- Zhao, Ye (2006), Professor, Ph.D., State University of New York, Stony Brook, 2006

## Computer Science (CS)

### CS 10001 COMPUTER LITERACY 3 Credit Hours

Introduction to history, language, procedures, applications, abuses and impact of computers. Hands-on experience with microcomputers. Not open to students with previous experience.

**Prerequisite:** None.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

### CS 10051 INTRODUCTION TO COMPUTER SCIENCE (KMCR) 4 Credit Hours

An introductory, broad and hands-on coverage of aspects of computer science, including algorithms, problem solving, operating systems concepts, computer architecture, programming languages and modern applications. Three-credit lecture with one-credit lab.

**Prerequisite:** None.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 3 lecture, 1 lab

**Grade Mode:** Standard Letter

**Attributes:** Kent Core Mathematics and Critical Reasoning

### CS 10062 PROGRAMMING FOR PROBLEM SOLVING IN SCIENCES 4 Credit Hours

Solving problems in a science frequently requires a knowledge of programming. This course provides an introduction to using programs to solve problems. It is designed for majors and non-majors who have had little or no prior programming experience. The course emphasizes a hands-on, team-based approach to learning programming and problem solving.

**Prerequisite:** Minimum 55 ALEKS math score or minimum C grade in either MATH 11009 (or MATH 10772) or MATH 11010 (or MATH 10774 or MATH 10775 or MATH 10675).

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 3 lecture, 2 lab

**Grade Mode:** Standard Letter

**CS 13001 COMPUTER SCIENCE I: PROGRAMMING AND PROBLEM SOLVING 4 Credit Hours**

Computer science concepts, including algorithm development and problem-solving strategies focused on procedural abstraction. High-level programming concepts, including data types, expressions, program structures, functions, parameter passing, scope, extent, arrays, introduction to recursion and an introduction to object oriented-concepts.

**Prerequisite:** Minimum C grade in MATH 11010.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 3 lecture, 3 lab

**Grade Mode:** Standard Letter

**CS 13011 COMPUTER SCIENCE IA: PROCEDURAL PROGRAMMING 2 Credit Hours**

Computer science concepts, including algorithm development and problem-solving strategies focused on programming abstractions. High-level programming concepts, including variables, branching, iteration and functions.

**Prerequisite:** Minimum C grade in MATH 11010.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 1.5 lecture, 1.5 lab

**Grade Mode:** Standard Letter

**CS 13012 COMPUTER SCIENCE IB: OBJECT ORIENTED PROGRAMMING 2 Credit Hours**

Computer science concepts, including algorithm development and problem-solving strategies focused on programming abstractions. High-level programming concepts, including introduction to recursion and an introduction to object oriented-concepts.

**Prerequisite:** Minimum C grade in CS 13011.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 1.5 lecture, 1.5 lab

**Grade Mode:** Standard Letter

**CS 13401 USER LEVEL COMPUTER SECURITY 3 Credit Hours**

Introduction to computer and network safety; detection and removal of viruses, detection and defense against spyware and rootkits, firewall description and use, protection mechanisms against computer system hacking, spam, identity theft and phishing, protecting wireless networks, safe computing. Includes many in-lecture tutorials.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CS 19995 SPECIAL TOPICS IN COMPUTER SCIENCE 1-3 Credit Hours**

(Repeatable for credit)Special topics from all areas of computer science.

**Prerequisite:** Permission.

**Schedule Type:** Lecture

**Contact Hours:** 1-3 lecture

**Grade Mode:** Standard Letter

**CS 23001 COMPUTER SCIENCE II: DATA STRUCTURES AND ABSTRACTION 4 Credit Hours**

Advanced computer programming design, and development with a primary focus on data structures and abstraction using an object oriented programming language.

**Prerequisite:** Minimum C grade in CS 13001 or CS 13012.

**Corequisite:** CS 23022.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 3 lecture, 2 lab

**Grade Mode:** Standard Letter

**CS 23022 DISCRETE STRUCTURES FOR COMPUTER SCIENCE 3 Credit Hours**

(Cross-listed with MATH 23022) Discrete structures for computer scientists with a focus on: mathematical reasoning, combinatorial analysis, discrete structures, algorithmic thinking, applications and modeling. Specific topics include logic, sets, functions, relations, algorithms, proof techniques, counting, graphs, trees, Boolean algebra, grammars and languages.

**Prerequisite:** Minimum C grade in MATH 11009 or MATH 11010.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CS 23301 ROBOTICS AND EMBEDDED SYSTEMS LABORATORY I 1 Credit Hour**

This course provides a team based, hands-on introduction to linking and programming robotic and embedded systems. Students in this course work with junior and senior level students on projects building devices that require linking and programming robotic and embedded systems.

**Prerequisite:** Minimum C grade in CS 13001 or CS 13012.

**Schedule Type:** Laboratory

**Contact Hours:** 2 lab

**Grade Mode:** Standard Letter

**CS 23302 ROBOTICS AND EMBEDDED SYSTEMS LABORATORY II 2 Credit Hours**

This course is the second computer science course on linking and programming robotic and embedded systems in a team based, hands-on environment. Students in this course work with junior and senior level students on projects building devices that require linking and programming robotic and embedded systems.

**Prerequisite:** CS 23001 and CS 23301 with a minimum C grade.

**Schedule Type:** Laboratory

**Contact Hours:** 4 lab

**Grade Mode:** Standard Letter

**CS 27101 INTRODUCTION TO WEB INTERFACE DESIGN 3 Credit Hours**

Introduction to principles for the design and implementation of user-centered website interfaces, website interface evaluation, human computer interaction, effective data organization and manipulation and tools for website creation.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CS 29995 SPECIAL TOPICS IN COMPUTER SCIENCE 1-3 Credit Hours**

(Repeatable for credit)Special topics from all areas of computer science.

**Prerequisite:** Permission.

**Schedule Type:** Lecture

**Contact Hours:** 1-3 lecture

**Grade Mode:** Standard Letter

**CS 32301 HUMAN INTERFACE COMPUTING 3 Credit Hours**

Foundations of human computer interaction including interaction design. Foundations of graphics and visualization. Basic concepts in security and secure design including cryptography. Introduction to intelligent systems including basic knowledge representation and basic machine learning.

**Prerequisite:** Minimum C grade in CS 23001.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter



**CS 33006 SOCIAL AND ETHICAL ISSUES IN COMPUTING (WIC) 3 Credit Hours**

Social issues, including historical and social context, professional responsibilities, risks and liabilities and intellectual property.

**Prerequisite:** Minimum C grade in CS 13001.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Writing Intensive Course

**CS 33007 INTRODUCTION TO DATABASE SYSTEM DESIGN 3 Credit Hours**

An introduction to the basic theoretical aspects of database systems, file organization, search methodologies, language design and performance evaluation techniques, initial modeling concepts and their use in hierarchical, network, relational and object-oriented database designs.

**Prerequisite:** Minimum C grade in CS 23001.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CS 33011 SPEED PROGRAMMING TECHNIQUES 3 Credit Hours**

Discussion and practice of pertinent aspects related to programming under time constraints.

**Prerequisite:** CS 23001.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**CS 33092 SPEED PROGRAMMING PRACTICUM (ELR) 2 Credit Hours**

(Repeatable for credit) Practice of pertinent aspects from CS 33011.

**Prerequisite:** CS 33011.

**Schedule Type:** Practical Experience

**Contact Hours:** 2 other

**Grade Mode:** Standard Letter

**Attributes:** Experiential Learning Requirement

**CS 33101 STRUCTURE OF PROGRAMMING LANGUAGES 3 Credit Hours**

Introduction to grammar, discrete and data structure concepts, syntax, semantics, abstraction, implementation model for imperative languages, dynamic memory management, type theory, concurrent programming, functional programming, logic programming, object oriented programming, event driven programming.

**Prerequisite:** Minimum C grade in CS 23001.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CS 33192 INTERNSHIP IN COMPUTER SCIENCE (ELR) 1-3 Credit Hours**

(Repeatable for credit for a maximum of 12 credit hours) Supervised work experience in computer science. Since this work will be outside the department a report and final presentation will be required; a site visit might also be necessary.

**Prerequisite:** Special approval.

**Schedule Type:** Practical Experience

**Contact Hours:** 3-9 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**Attributes:** Experiential Learning Requirement

**CS 33211 OPERATING SYSTEMS 3 Credit Hours**

Introduction to operating systems, processes and threads, CPU scheduling, mutual exclusion and synchronization, deadlock, memory management, file systems, security, networking and distributed systems and current topics. systems.

**Prerequisite:** Minimum C grade in CS 23001.

**Pre/corequisite:** CS 35101.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CS 33223 UNIX TOOLS 3 Credit Hours**

Course will cover UNIX operating system environment topics that will make the user more productive. Topics will include the user environment, shells, files, the file system, editors, scripting languages, document processing, processes, remote access and documentation.

**Prerequisite:** CS 13001.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CS 33301 EMBEDDED SYSTEM PROGRAMMING 3 Credit Hours**

Catalog Description (edited): An embedded system is a combination of computer hardware and software specifically designed for a particular function. Embedded systems have been playing important roles in various application areas such as industrial machines, automobiles, medical equipment, cameras, household appliances, air planes, vending machines, toys and other uses. Students will learn fundamental concepts of designing and programming embedded computer systems, including requirements specifications, architectural and detailed design, and implementation, focusing on real-time aspects of programming languages, operating system kernels, and hardware architectures.

**Prerequisite:** Minimum C grade in CS 23001.

**Corequisite:** CS 35101.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CS 33901 SOFTWARE ENGINEERING 3 Credit Hours**

An introduction to software engineering concepts: life cycle models; modeling languages; requirements analysis; specification; design; testing; validation; project management and maintenance.

**Prerequisite:** Minimum C grade in CS 23001.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CS 35101 COMPUTER ORGANIZATION 3 Credit Hours**

Computer system organization, including performance measures, instruction sets, computer arithmetic, central processing unit, pipelining, memory hierarchy, and parallel processors.

**Prerequisite:** Minimum C grade in CS 13001; or minimum C grade in the following courses CS 13011 and CS 13012.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CS 35201 COMPUTER COMMUNICATION NETWORKS 3 Credit Hours**

An introduction to net-centric systems, data communication protocols, network architectures, routing protocols, network management, congestion control, network security, compression techniques, mobile and wireless networks, and WWW as an example of a client-server system.

**Prerequisite:** Minimum C grade in CS 23001.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CS 38101 INTRODUCTION TO GAME PROGRAMMING 3 Credit Hours**

Game engine scripting, event driven and data driven programming, game engine data structures, basic game related graphics and AI concepts, a short game development project.

**Prerequisite:** Minimum C grade in CS 23001.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CS 39995 SPECIAL TOPICS IN COMPUTER SCIENCE 1-3 Credit Hours**

(Repeatable for credit) Special topics from all areas of computer science.

**Prerequisite:** Permission.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CS 41038 INTERMEDIATE LOGIC 3 Credit Hours**

(Cross-listed with MATH 41038 and MATH 51038 and PHIL 41038 and PHIL 51038) A detailed, systematic study of symbolic logic for philosophy majors, mathematics majors, computer science majors, and anyone else interested in advanced study in logic. The aim of the course is twofold: first, to develop a facility in understanding and using symbolic logic for various purposes, and second, to understand and appreciate symbolic logic as an area of study in itself. Topics include the distinction between syntactic, object-level proofs and semantic, meta-level proofs, the distinction between axiomatic systems and natural deduction systems of object-level proofs, various systems of modal logic, and some non-classical logics.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CS 41045 METALOGIC 3 Credit Hours**

(Slashed with CS 51045; Cross-listed with MATH 41045 and MATH 51045 and PHIL 41045 and PHIL 51045) A detailed, systematic study of metalogic for philosophy majors, mathematics majors, computer science majors, and anyone else interested in advanced study in logic. Topics include the soundness and completeness of the propositional and predicate calculi, the decidability of propositional calculus, the undecidability of predicate calculus, Gödel's incompleteness proof for languages capable of expressing arithmetic, the co-extensionality of the set of general recursive functions, abacus computable functions, and Turing computable functions, and the philosophical motivations for the Church-Turing Thesis that all computable functions are Turing computable.

**Prerequisite:** PHIL 41038.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CS 42201 INTRODUCTION TO NUMERICAL COMPUTING I 3 Credit Hours**

An introduction to numerical methods and software for solving many common scientific computing problems. Linear systems, least-squares data fitting, nonlinear equations and systems and optimization problems.

**Prerequisite:** Minimum C grade in the following courses MATH 12003; and MATH 21001 or MATH 32051; and CS 10061 or CS 13001; or CS 13011 and CS 13012.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CS 42202 NUMERICAL COMPUTING II 3 Credit Hours**

(Cross-listed with CS 52202 and MATH 42202 and MATH 52202) A continuation of CS 42201. Topics include interpolation, numerical differentiation and integration, and numerical solution of ordinary differential equations.

**Prerequisite:** MATH 32044 or MATH 32052; and MATH 42201 or CS 42201.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CS 43006 THEORY OF OBJECT-ORIENTED PROGRAMMING 3 Credit Hours**

(Cross-listed with CS 53006) In depth course on the theory and principles of object-based and object-oriented programming using a language such as C++. The course covers advanced topics in inheritance and interface planning, generic (type independent) programming, factors of polymorphism, structure and organization of class libraries and object oriented design principles.

**Prerequisite:** CS 23001.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CS 43016 BIG DATA ANALYTICS 3 Credit Hours**

This course will introduce the state-of-art computing platforms with the focus on how to utilize them in processing (managing and analyzing) massive datasets. The course will utilize several key data processing tasks, including simple statistics, data aggregation, join processing, frequent pattern mining, data clustering, information retrieval, pagerank, and massive graph analytics as the case study for large scale data processing.

**Prerequisite:** CS 23001 with a minimum C grade.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CS 43105 DATA MINING TECHNIQUES 3 Credit Hours**

Concepts and techniques of data mining. Data mining is a process of discovering information from a set of large databases. This course takes a database perspective on data mining, covering a set of interesting topics, including association rule mining, clustering, classification, web mining, etc. It covers the basics of some important theoretical foundations for data mining, including linear regression, Bayesian inferences, information theory, and markov chain random walk.

**Prerequisite:** CS 33007.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CS 43111 STRUCTURE OF COMPILERS 3 Credit Hours**

(Cross-listed with CS 53111) Techniques used to write compilers including lexical analysis, syntax analysis, syntax-directed translation, type checking, run-time environments, and intermediate code generation.

**Prerequisite:** CS 35101 and 33101.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CS 43118 GRAPH AND SOCIAL NETWORK ANALYSIS 3 Credit Hours**

(Slashed with CS 53118 and CS 73118) Catalog Description: This course covers a number of important and useful ideas in graph databases, especially in social networks (e.g. the data model for certain-uncertain graphs), indexing over graphs, and query processing algorithms for graph databases (e.g., single-source path queries, path queries, reachability queries, keyword search queries, subgraph matching, etc.). The influence maximization problems over social networks in real applications are also discussed as well as various queries over the distributed graph database.

**Prerequisite:** CS 33007.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CS 43202 SYSTEMS ADMINISTRATION 3 Credit Hours**

(Cross-listed with CS 53202) The setting up and day-to-day administration of multiuser multitasking systems, such as the various versions of UNIX, together with the analysis of problems which can arise in these activities.

**Prerequisite:** CS 33211.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CS 43203 SYSTEMS PROGRAMMING 3 Credit Hours**

(Slashed with CS 53203) The setting up and day-to-day administration of multiuser multitasking systems, such as the various versions of UNIX, together with the analysis of problems which can arise in these activities. Implementation and maintenance of system programs, system utilities, command interpreters, editors, file maintenance programs, text processors, interrupt handling, and device drivers.

**Prerequisite:** CS 23001 with a minimum C grade.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CS 43301 SOFTWARE DEVELOPMENT FOR ROBOTICS 3 Credit Hours**

(Slashed with CS 53301) Robots are being used in multiple places that are not easily accessible for humans to support the lack of available labor, to gain extra precision, and for cost effective manufacturing processes, monitoring, space exploration, precision surgery and artificial limb support for elderly and physically challenged persons. Computer science is an integral part of robotics as it includes areas such as computer algorithms, artificial intelligence, and image processing that are essential aspects of robotics. This first course on robotics will teach the students various motions of rigid robots, mathematics and algorithms related to these motions, motion planning, obstacle avoidance, intelligent path planning including use of various sensors.

**Prerequisite:** CS 23001 and CS 33301 with a minimum of C grade.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CS 43302 ALGORITHMIC ROBOTICS 3 Credit Hours**

(Slashed with CS 53302 and CS 73302) This course provides students theoretical, mathematical, and practical foundations for the design, analysis, and evaluation of algorithms for robots for diverse robotic applications. We will focus on a principled and mathematically sound approach to the design of algorithms for robots rather than ad hoc and hacking development approaches.

**Prerequisite:** CS 33301 and CS 43301.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CS 43303 INTERNET OF THINGS 3 Credit Hours**

(Slashed with CS 53303 and CS 73303) This course will provide a comprehensive understanding of the Internet of Things by looking into a variety of real-world application scenarios, existing and new technologies and architectures, communication protocols and standardization efforts, societal and behavioral changes, and how to apply these technologies to tackle real-world problems.

**Prerequisite:** CS 33301 or CS 45231.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CS 43305 ADVANCED DIGITAL DESIGN 3 Credit Hours**

(Slashed with CS 53305) This course describes techniques in the design of digital systems. Topics covered include combinational and sequential logic, gate-level minimization, registers and counters, memory and programmable logic, hardware description languages, digital communication including serial and parallel and synchronous and asynchronous methods.

**Prerequisite:** CS 23001 with a minimum C grade.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CS 43334 HUMAN-ROBOT INTERACTION 3 Credit Hours**

(Slashed with CS 53334 and CS 73334) Human-Robot Interaction (HRI) is the study of interactions between humans and robots dedicated to understanding, designing, and evaluating robotic systems for use by and with humans. HRI is a multidisciplinary field that incorporates human-computer interaction, artificial intelligence, robotics, natural language understanding, design, and social sciences. Interaction between humans and robots may take several forms, but are generally categorized by how close in proximity the humans and robots are to each other such as remote, proximate, and hybrid interaction. In the class, students will learn the fundamental technologies and theories in each category, and blend this knowledge with various case studies and lab activities.

**Prerequisite:** CS 33301 and CS 43301.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CS 43401 SECURE PROGRAMMING 3 Credit Hours**

Code vulnerabilities, static code analysis, error handling, secure I/O, race conditions and mediation, handling buffer and integer overflow, handling vulnerabilities in web and database programming, privacy and cryptography, random number generators.

**Prerequisite:** CS 23001 with a minimum C grade; and junior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CS 44001 COMPUTER SCIENCE III-PROGRAMMING PATTERNS 4 Credit Hours**

(Slashed with CS 54001) CS III Programming Patterns extends students' knowledge of object oriented programming, and improves their C++ programming skills. Specifically, it covers procedural and object-based programming, inheritance, polymorphism, popular design patterns, and generic programming.

**Prerequisite:** CS 23001 with a minimum C grade.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 3 lecture, 3 lab

**Grade Mode:** Standard Letter

**CS 44003 MOBILE APPS IN IOS PROGRAMMING 3 Credit Hours**

(Slashed with CS 54003) Students are introduced to mobile applications programming in the iOS environment using model, view, controller paradigms. Other topics include swift, programming using on board devices like GPS, cameras, motion detectors, and screen touches.

**Prerequisite:** CS 23001 with a minimum C grade.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CS 44004 DRONE PROGRAMMING 3 Credit Hours**

Course describes the design, programming and control of autonomous drones. Students will learn how to write apps to compute and control the drone's trajectories, including collision avoidance and object detection. Topics covered include system software and hardware architectures, use case models, interoperability, trajectory programming, communications protocols. Students will apply this knowledge in the context of programming assignments using drone simulator. Subsequently, students will develop apps to control autonomous drone vehicle.

**Prerequisite:** Minimum C grade in CS 35201.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CS 44105 WEB PROGRAMMING I 3 Credit Hours**

(Slashed with CS 54105) This course is the first of a two-course sequence on Web Programming covering from basic to advanced topics on Web Programming based on open standards and best practices. Topics covered include the HyperText Markup Language (HTML), specifying look and feel using Cascading Style Sheets (CSS), client side programming in Javascript, server side programming in PHP, and the Hypertext Transfer Protocol (HTTP).

**Prerequisite:** CS 23001 with a minimum C grade.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CS 44106 WEB PROGRAMMING II 3 Credit Hours**

(Slashed with CS 54106) This course is the second of a two-course sequence on Web Programming covering advanced topics on Web Programming based on open standards and best practices. This is a project course exploring advanced aspects of Web programming. Topics covered include advanced server side programming in PHP; database driven websites; structured query language (SQL) and MySQL; E-commerce; web hosting using Apache, PHP and MySQL; basic and digest authentication; web security, encryption and digital certificates; Extensible Markup Language (XML) for the web, AJAX and web services; scalable vector graphics (SVG); mobile websites.

**Prerequisite:** CS 44105.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CS 44201 ARTIFICIAL INTELLIGENCE 3 Credit Hours**

(Slashed with CS 54201) Examines goals, problems, concepts and methods of artificial intelligence, heuristic versus algorithmic methods, natural language comprehension, theorem proving.

**Prerequisite:** CS 23001.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CS 44901 SOFTWARE DEVELOPMENT PROJECT (ELR) (WIC) 4 Credit Hours**

With the supervision of the instructor, students will work in teams to design and implement a realistic software project similar to projects they would encounter in the workplace.

**Prerequisite:** CS 23001 with a minimum C grade; and junior standing.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 3 lecture, 3 lab

**Grade Mode:** Standard Letter

**Attributes:** Experiential Learning Requirement, Writing Intensive Course

**CS 44902 SOFTWARE REQUIREMENTS ENGINEERING 3 Credit Hours**

(Slashed with CS 54902) Students will learn a systematic approach to requirements elicitation, envisioning, requirements engineering, while leveraging design-based ideation and validation. Topics include software and systems requirements engineering, interface design and modeling, systems architecture, performance engineering, ethics, systems verification and testing.

**Prerequisite:** CS 33901.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CS 45102 CENTRAL PROCESSING UNIT (CPU) ARCHITECTURES 3 Credit Hours**

(Slashed with CS 55102) This course explores CPU architectures and concepts, focusing mostly on general purpose CPUs. It begins by examining the x86 architecture, the origins of reduced instruction set computers, and how those diverse concepts were reconciled. It looks at superscalar execution, out-of-order execution, branch prediction, and speculative execution, and their use in the Intel Pentium Pro and Pentium II. Finally, it concludes by exploring some contemporary CPU architectures such as embedded processors, graphics processors, and the open-source RISC-V architecture.

**Prerequisite:** CS 35101; and CS 23001 with a minimum C grade.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter



**CS 45203 COMPUTER NETWORK SECURITY 3 Credit Hours**

(Slashed with CS 55203) Overview of network security including attacks and vulnerabilities and defense measures, secure network design, network and transport layers security, intrusion detection techniques, defense against denial of service attacks, network hardware, software, and applications attacks and their defense, security policies, legal and ethical issues in cyber and computer crimes.

**Prerequisite:** CS 35201 and; MATH 20011 or MATH 30011.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CS 45231 INTERNET ENGINEERING 3 Credit Hours**

Design fundamentals and working principles of internet systems at the IP layer and above. DNS, inter-domain routing, internet client server programming, application level protocols (HTTP, XML, etc.) web server architecture, browser internet security and multimedia serving.

**Prerequisite:** CS 23001, 33211 and 35201.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CS 46101 DESIGN AND ANALYSIS OF ALGORITHMS 3 Credit Hours**

(Slashed with CS 56101) Introduction to algorithmic concepts, design and complexity analysis of algorithms and data structures, searching, sorting, graph and string algorithms.

**Prerequisite:** MATH 12003 or MATH 12013; and minimum C grade in CS 23001.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CS 47101 COMPUTER GRAPHICS 3 Credit Hours**

Display file generation, interactive graphics techniques, display devices, three-dimensional graphics, graphic system design, graphic languages and applications in man-machine communications.

**Prerequisite:** CS 23001.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CS 47201 HUMAN COMPUTER INTERACTION 3 Credit Hours**

Approaches the human-computer interaction as an activity of the human whose productivity is increased by the use of the computer as a tool.

Examines physiology and psychology considers the structure and operation of the computer and models the interaction between the two.

**Prerequisite:** CS 23001.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CS 47205 INFORMATION SECURITY 3 Credit Hours**

(Slashed with CS 57205) An introduction to concepts and methodology useful for information security, as specified by the NSTISSI NO. 4011 standard from the NSA.

**Prerequisite:** CS 23001 with a minimum C grade.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CS 47206 DATA SECURITY AND PRIVACY 3 Credit Hours**

(Slashed with CS 57206) The goal of the course is to familiarize the students with basic concepts of security and privacy, their definitions, applications and current advances in research community and industry. This course addresses the security and privacy issues in legacy systems and also studies security and privacy policies and legislations. This course also reviews current research projects in the area of security and privacy.

**Prerequisite:** CS 23001 with a minimum C grade.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CS 47207 DIGITAL FORENSICS 3 Credit Hours**

(Slashed with CS 57207) This course addresses the need for digital forensics, best practices for general incidence response, legal aspects of forensics, tools and techniques to perform a full computer forensic investigation.

**Prerequisite:** CS 23001 with a minimum C grade.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CS 47221 INTRODUCTION TO CRYPTOLOGY 3 Credit Hours**

This is a course on the modern science of Cryptology; that is, the process of hiding information by converting it, through a reversible process, into something unrecognizable. Of course, only the recipient should be able to reverse the "hiding" or encrypting process. As far as usage in life is concerned, this course will help you to set up cryptosystems in many different environments. This skill is highly employable; from the NSA, to banks, to anybody who needs to encrypt information is looking for people with knowledge in Cryptology.

**Prerequisite:** CS 23001 with a minimum C grade.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CS 48101 GAME ENGINE CONCEPTS 3 Credit Hours**

Introduction to 3D game engine design, game memory management, multithreading in games, sprites and bitmap animation level design, path finding, audio-visual effects, AI and physical modeling in games, networked gaming.

**Prerequisite:** CS 23001 with a minimum C grade.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CS 48102 GAME DEVELOPMENT PRACTICUM (ELR) (WIC) 4 Credit Hours**

With the supervision of the instructor, students will work in teams to design and implement a computer game or 3D interactive learning environment using a game engine in a professional setup.

**Prerequisite:** CS 33007 and CS 33901 and CS 35201; and CS 48101 or CS 38101; and junior standing.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 3 lecture, 2 lab

**Grade Mode:** Standard Letter

**Attributes:** Experiential Learning Requirement, Writing Intensive Course



**CS 49995 SPECIAL TOPICS IN COMPUTER SCIENCE 1-4 Credit Hours**

(Repeatable for credit) (Slashed with CS 59995) Special topics from all areas of computer science.

**Prerequisite:** Special approval.

**Schedule Type:** Lecture

**Contact Hours:** 4 lecture

**Grade Mode:** Standard Letter

**CS 49996 INDIVIDUAL STUDY 1-4 Credit Hours**

(Repeatable for credit).

**Prerequisite:** Special approval.

**Schedule Type:** Individual Investigation

**Contact Hours:** 1-4 other

**Grade Mode:** Standard Letter

**CS 49998 RESEARCH (ELR) 1-15 Credit Hours**

(Repeatable for credit)

**Prerequisite:** Special approval.

**Schedule Type:** Research

**Contact Hours:** 1-15 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**Attributes:** Experiential Learning Requirement

**CS 49999 CAPSTONE PROJECT (ELR) (WIC) 4 Credit Hours**

The course is an integrative experience that brings together all components of the undergraduate computer science curriculum in an applied, hands-on real-world setting. The course is three-credits lecture and one-credit lab.

**Prerequisite:** CS 33007 and CS 33901 and CS 35201.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 4 other

**Grade Mode:** Standard Letter

**Attributes:** Experiential Learning Requirement, Writing Intensive Course

**CS 51045 METALOGIC 3 Credit Hours**

(Slashed with CS 41045; Cross-listed with MATH 41045 and MATH 51045 and PHIL 41045 and PHIL 51045) A detailed, systematic study of metalogic for philosophy majors, mathematics majors, computer science majors, and anyone else interested in advanced study in logic. Topics include the soundness and completeness of the propositional and predicate calculi, the decidability of propositional calculus, the undecidability of predicate calculus, Gödel's incompleteness proof for languages capable of expressing arithmetic, the co-extensionality of the set of general recursive functions, abacus computable functions, and Turing computable functions, and the philosophical motivations for the ChurchTuring Thesis that all computable functions are Turing computable

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CS 52201 NUMERICAL COMPUTING I 3 Credit Hours**

(Slashed with CS 42201) (Cross-listed with MATH 42201 and MATH 52201) An introduction to numerical methods and software for solving many common scientific computing problems. Linear systems, least-squares data fitting, nonlinear equations and systems, and optimization problems.

**Prerequisite:** Graduate standing in Computer Science.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CS 52202 NUMERICAL COMPUTING II 3 Credit Hours**

(Slashed with CS 42202)(Cross-listed with MATH 42202 and MATH 52202) A continuation of CS 52201. Topics include interpolation numerical differentiation and integration and numerical solution of ordinary differential equations.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CS 53006 THEORY OF OBJECT-ORIENTED PROGRAMMING 3 Credit Hours**

(Slashed with CS 43006) In-depth course on the theory and principles of object-based and object-oriented programming using a language such as C ++. The course covers advanced topics in inheritance and interface planning, generic (type independent) programming, factors of polymorphism, structure and organization of class libraries, and object-oriented design principles.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CS 53111 STRUCTURE OF COMPILERS 3 Credit Hours**

(Slashed with CS 43111) Techniques used to write compilers including lexical analysis, syntax analysis, syntax directed translation, type checking, run-time environments and intermediate code generation.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CS 53118 GRAPH AND SOCIAL NETWORK ANALYSIS 3 Credit Hours**

(Slashed with CS 43118 and CS 73118) This course covers a number of important and useful ideas in graph databases, especially in social networks (e.g. the data model for certain-uncertain graphs), indexing over graphs, and query processing algorithms for graph databases (e.g., single-source path queries, path queries, reachability queries, keyword search queries, subgraph matching, etc.). The influence maximization problems over social networks in real applications are also discussed as well as various queries over the distributed graph databases.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CS 53202 SYSTEMS ADMINISTRATION 3 Credit Hours**

(Slashed with CS 43202) The setting up and day-to-day administration of multiuser multitasking systems, such as the various versions of UNIX together with the analysis of problems which can arise in these activities.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CS 53203 SYSTEMS PROGRAMMING 3 Credit Hours**

(Slashed with CS 43203) The setting up and day-to-day administration of multiuser multitasking systems, such as the various versions of UNIX, together with the analysis of problems which can arise in these activities. Implementation and maintenance of system programs, system utilities, command interpreters, editors, file maintenance programs, text processors, interrupt handling, and device drivers.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CS 53301 SOFTWARE DEVELOPMENT FOR ROBOTICS 3 Credit Hours**

(Slashed with CS 43301) Robots are being used in multiple places that are not easily accessible for humans, to support the lack of available labor, to gain extra precision, and for cost effective manufacturing processes, monitoring, space exploration, precision surgery and artificial limb support for elderly and physically challenged persons. Computer science is an integral part of robotics as it includes areas such as computer algorithms, artificial intelligence, and image processing that are essential aspects of robotics. This first course on robotics will teach the students various motions of rigid robots, mathematics and algorithms related to these motions, motion planning, obstacle avoidance, intelligent path planning including use of various sensors.

**Prerequisite:** Graduate standing.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CS 53302 ALGORITHMIC ROBOTICS 3 Credit Hours**

(Slashed with CS 43302 and CS 73302) This course provides students theoretical, mathematical, and practical foundations for the design, analysis, and evaluation of algorithms for robots for diverse robotic applications. We will focus on a principled and mathematically sound approach to the design of algorithms for robots rather than ad hoc and hacking development approaches.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CS 53303 INTERNET OF THINGS 3 Credit Hours**

(Slashed with CS 43303 and CS 73303) This course will provide a comprehensive understanding of the Internet of Things by looking into a variety of real-world application scenarios, existing and new technologies and architectures, communication protocols and standardization efforts, societal and behavioral changes, and how to apply these technologies to tackle real-world problems.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CS 53305 ADVANCED DIGITAL DESIGN 3 Credit Hours**

(Slashed with CS 43305) This course describes techniques in the design of digital systems. Topics covered include combinational and sequential logic, gate-level minimization, registers and counters, memory and programmable logic, hardware description languages, digital communication including serial and parallel and synchronous and asynchronous methods.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CS 53334 HUMAN-ROBOT INTERACTION 3 Credit Hours**

(Slashed with CS 43334 and CS 73334) Human-Robot Interaction (HRI) is the study of interactions between humans and robots dedicated to understanding, designing, and evaluating robotic systems for use by and with humans. HRI is a multidisciplinary field that incorporates human-computer interaction, artificial intelligence, robotics, natural language understanding, design, and social sciences. Interaction between humans and robots may take several forms, but are generally categorized by how close in proximity the humans and robots are to each other such as remote, proximate, and hybrid interaction. In the class, students will learn the fundamental technologies and theories in each category, and blend this knowledge with various case studies and lab activities.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CS 53401 SECURE PROGRAMMING 3 Credit Hours**

Code vulnerabilities, static code analysis, error handling, secure I/O, race conditions and mediation, handling buffer and integer overflow, handling vulnerabilities in web and database programming, privacy and cryptography, random number generators.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CS 54001 COMPUTER SCIENCE III - PROGRAMMING PATTERNS 4 Credit Hours**

(Slashed with CS 44001) Extends students' knowledge of object oriented programming, and improves their C++ programming skills. Specifically, it covers procedural and object-based programming, inheritance, polymorphism, popular design patterns, and generic programming.

**Prerequisite:** Graduate standing.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 3 lecture, 3 lab

**Grade Mode:** Standard Letter

**CS 54003 MOBILE APPS IN IOS PROGRAMMING 3 Credit Hours**

Students are introduced to mobile applications programming in the iOS environment using model, view, controller paradigms. Other topics include swift, programming using on board devices like GPS, cameras, motion detectors, and screen touches.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CS 54105 WEB PROGRAMMING I 3 Credit Hours**

(Slashed with CS 44105) This course is the first of a two-course sequence on Web Programming covering from basic to advanced topics on Web Programming based on open standards and best practices. Topics covered include the HyperText Markup Language (HTML), specifying look and feel using Cascading Style Sheets (CSS), client side programming in Javascript, server side programming in PHP, and the Hypertext Transfer Protocol (HTTP).

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CS 54106 WEB PROGRAMMING II 3 Credit Hours**

(Slashed with CS 44106) This course is the second of a two-course sequence on Web Programming covering advanced topics on Web Programming based on open standards and practices. This is a project course exploring advanced aspects of Web programming. Topics covered include advanced server side programming in PHP; database driven websites; structured query language (SQL) and MySQL; E-commerce; web hosting using Apache, PHP MySQL; basic and digest authentication; web security, encryption and digital certificates; Markup Language (XML) for the web, AJAX and web services; scalable vector graphics (SVG); websites.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CS 54201 ARTIFICIAL INTELLIGENCE 3 Credit Hours**

(Slashed with CS 44201) Examines goals, problems, concepts and methods of artificial intelligence heuristic versus algorithmic methods, natural language comprehension, theorem proving.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CS 54202 MACHINE LEARNING AND DEEP LEARNING 3 Credit Hours**

This course provides an overview of some fundamental concepts, techniques and algorithms in machine learning and deep learning, and will give students a basic understanding (ideas and intuitions) of how modern machine learning works. Specifically, there are three main objectives: 1. To help student get familiar with the fundamental mathematical tools (linear algebra, probability theory, statistical inference, numerical optimization, and learning theory) which lays the foundation of machine learning algorithms and techniques; 2. To introduce the core machine learning concepts and topics, such as linear regression, classification, SVM, and neural networks (and its deep variants); in addition, we will utilize the recommendation system for students to learn how real world machine system works; 3. Teach students how to program and use the latest machine learning packages, such as Tensorflow.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CS 54902 SOFTWARE REQUIREMENTS ENGINEERING 3 Credit Hours**

(Slashed with CS 44902) Students will learn a systematic approach to requirements elicitation, envisioning, requirements engineering, while leveraging design-based ideation and validation. Topics include software and systems requirements engineering, interface design and modeling, systems architecture, performance engineering, ethics, systems verification and testing.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CS 55102 CENTRAL PROCESSING UNIT (CPU) ARCHITECTURES 3 Credit Hours**

(Slashed with CS 45102) This course explores CPU architectures and concepts, focusing mostly on general purpose CPUs. It begins by examining the x86 architecture, the origins of reduced instruction set computers, and how those diverse concepts were reconciled. It looks at superscalar execution, out-of-order execution, branch prediction, and speculative execution, and their use in the Intel Pentium Pro and Pentium II. Finally, it concludes by exploring some contemporary CPU architectures such as embedded processors, graphics processors, and the open-source RISC-V architecture.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CS 55201 COMPUTER COMMUNICATION NETWORKS 3 Credit Hours**

An introduction to net-centric systems, data communication protocols, network architectures, routing protocols, network management, congestion control, network security, compression techniques, mobile and wireless networks, and WWW as an example of a client server system.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CS 55203 COMPUTER NETWORK SECURITY 3 Credit Hours**

(Slashed with CS 45203) Overview of network security including attacks and vulnerabilities and defense measures, secure network design, network and transport layers security, intrusion detection techniques, defense against denial of service attacks, network hardware, software, and applications attacks and their defense, security policies, legal and ethical issues in cyber and computer crimes.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CS 55231 INTERNET ENGINEERING 3 Credit Hours**

(Slashed with CS 45231) Design fundamentals and working principles of internet systems at the IP layer and above. DNS, inter-domain routing, internet client server programming, application level protocols (HTTP, XML, etc.) Web server architecture, browser, internet security, and multimedia serving.

**Prerequisite:** CS 23001 and CS 55201; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CS 56101 DESIGN AND ANALYSIS OF ALGORITHMS 3 Credit Hours**  
(Slashed with CS 46101) Introduction to algorithmic concepts, design and complexity analysis of algorithms and data structures, searching, sorting, graph and string algorithms.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CS 57101 COMPUTER GRAPHICS 3 Credit Hours**  
(Slashed with CS 47101) Display file generation, interactive graphics techniques, display devices, three-dimensional graphics, graphic system design, graphic languages and applications in man-machine communications.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CS 57201 HUMAN COMPUTER INTERACTION 3 Credit Hours**  
(Slashed with CS 47201) Approaches the human-computer interaction as an activity of the human whose productivity is increased by the use of the computer as a tool. Examines physiology and psychology considers the structure and operation of the computer and models the interaction between the two.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CS 57205 INFORMATION SECURITY 3 Credit Hours**  
(Slashed with CS 47205) An introduction to concepts and methodology useful for information security, as specified by the NSTISSI NO. 4011 standard from the NSA.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CS 57206 DATA SECURITY AND PRIVACY 3 Credit Hours**  
(Slashed with CS 47206) The goal of the course is to familiarize the students with basic concepts of security and privacy, their definitions, applications and current advances in research community and industry. This course addresses the security and privacy issues in legacy systems and also studies security and privacy policies and legislations. This course also reviews current research projects in the area of security and privacy.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CS 57207 DIGITAL FORENSICS 3 Credit Hours**  
(Slashed with CS 47207) This course addresses the need for digital forensics, best practices for general incidence response, legal aspects of forensics, tools and techniques to perform a full computer forensic investigation.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CS 57221 INTRODUCTION TO CRYPTOLOGY 3 Credit Hours**  
(Slashed with CS 47221) This is a course on the modern science of Cryptology; that is, the process of hiding information by converting it, through a reversible process, into something unrecognizable. Of course, only the recipient should be able to reverse the "hiding" or encrypting process. As far as usage in life is concerned, this course will help you to set up cryptosystems in many different environments. This skill is highly employable; from the NSA, to banks, to anybody who needs to encrypt information is looking for people with knowledge in Cryptology.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CS 59893 VARIABLE TITLE WORKSHOP IN COMPUTER SCIENCE 1-6 Credit Hours**

(Repeatable for credit) Studies in special topics in computer science.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Workshop

**Contact Hours:** 1-6 other

**Grade Mode:** Satisfactory/Unsatisfactory

**CS 59995 SPECIAL TOPICS IN COMPUTER SCIENCE 1-3 Credit Hours**

(Repeatable for credit) (Slashed with CS 49995) Various special courses will be announced in the schedule of classes under this title.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 1-3 lecture

**Grade Mode:** Standard Letter

**CS 60093 VARIABLE TITLE WORKSHOP IN COMPUTER SCIENCE 1-3 Credit Hours**

(Repeatable for credit) Studies of special topics in computer science.

Not acceptable for credit toward a graduate degree in computer science without approval of the student's adviser.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Workshop

**Contact Hours:** 1-3 other

**Grade Mode:** Satisfactory/Unsatisfactory

**CS 60094 COLLEGE TEACHING OF COMPUTER SCIENCE 1 Credit Hour**

(Repeatable for credit) (Slashed with CS 70094) Techniques and problems of college teaching of computer science. Student presentation of computer science papers will be included.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 1 lecture

**Grade Mode:** Standard Letter-S/U

**CS 61002 ALGORITHMS AND PROGRAMMING I 4 Credit Hours**

An introduction to the algorithms and tools used in computer science; includes programming in a high level language. This course may not be counted toward degree requirement in the CS Masters of Science degree or the CS Ph.D. degree.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 4 lecture

**Grade Mode:** Standard Letter

**CS 61003 ALGORITHMS AND PROGRAMMING II 4 Credit Hours**  
Further exploration into the tools used in computer science. This course may not be counted toward degree requirements in the CS Masters of Science degree or the CS Ph.D. degree.

**Prerequisite:** CS 61002; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 4 lecture

**Grade Mode:** Standard Letter

**CS 61004 OPERATING SYSTEMS AND ARCHITECTURE 4 Credit Hours**

The fundamentals of computer operating systems and architecture design required for a Masters of Arts degree in computer science are presented. This course may not be counted towards the Masters of Science or the Doctoral programs in Computer Science.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 4 lecture

**Grade Mode:** Standard Letter

**CS 61092 PRACTICUM IN CS FOR INFORMATION ARCHITECTURE AND KNOWLEDGE MANAGEMENT 1-5 Credit Hours**

(Repeatable for credit) This course is an alternative to IAKM 60198 for students interested in pursuing a CS thesis. Credit for IAKM 60198 or any other project course is not allowed.

**Prerequisite:** Graduate standing.

**Schedule Type:** Practical Experience

**Contact Hours:** 1-5 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**CS 61199 THESIS I FOR INFORMATION ARCHITECTURE AND KNOWLEDGE MANAGEMENT 2-6 Credit Hours**

This students must register for a minimum of 6 hours. No credit for CS students.

**Prerequisite:** Graduate standing.

**Schedule Type:** Masters Thesis

**Contact Hours:** 2-6 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**CS 61299 THESIS II FOR INFORMATION ARCHITECTURE AND KNOWLEDGE MANAGEMENT STUDENTS 2 Credit Hours**

This students must continue registration each semester until all degree requirements are met.

**Prerequisite:** CS 61199.

**Schedule Type:** Masters Thesis

**Contact Hours:** 2 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**CS 62263 NUMERICAL SOLUTION OF LARGE SPARSE LINEAR SYSTEMS 3 Credit Hours**

(Slashed with CS 72263) (Cross-listed with MATH 62263 and MATH 72263) Construction and analysis of iterative methods for large systems of linear algebraic equations. Jacobi, Gauss-Seidel, SOR. Polynomial acceleration methods, conjugate gradients. Multi-grid methods.

**Prerequisite:** MATH 51021 and CS 52202; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CS 62264 NUMERICAL SOLUTION OF NONLINEAR SYSTEMS 3 Credit Hours**

(Slashed with CS 72264) (Cross-listed MATH 62264 and MATH 72264) Construction and analysis of numerical methods for systems of non linear algebraic equations and optimization problems. Numerical implementation and software.

**Prerequisite:** MATH 52041 and CS 52202; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CS 63005 ADVANCED DATABASE SYSTEMS DESIGN 3 Credit Hours**

(Slashed with CS 73005) Introduction to a variety of advanced database topics and on-going trends in modern database systems. The course includes advanced issues of object-oriented database, XML, advanced client server architecture and distributed database techniques.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CS 63015 DATA MINING TECHNIQUES 3 Credit Hours**

(Slashed with CS 73015) Concepts and techniques of data mining. Data mining is a process of discovering information from a set of large databases. This course takes a database perspective on data mining.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CS 63016 BIG DATA ANALYTICS 3 Credit Hours**

(Slashed with CS 73016) Introduces computing platforms with focus on how to use them in processing, managing and analyzing massive datasets. Utilizes several key data processing tasks, including simple statistics, data aggregation, join processing, frequent pattern mining, data clustering, information retrieval, pagerank and massive graph analytics as the case study for large scale data processing.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CS 63017 BIG DATA MANAGEMENT 3 Credit Hours**

This course will cover a series of important Big-Data-related problems and their solutions. Specifically, we will introduce the characteristics and challenges of the Big Data, state-of-the-art computing paradigm sand platforms (e.g., MapReduce), big data programming tools (e.g., Hadoop and MongoDB), big data extraction and integration, big data storage, scalable indexing for big data, big graph processing, big data stream techniques and algorithms, big probabilistic data management, big data privacy, big data visualizations, and big data applications (e.g., spatial, finance, multimedia, medical, health, and social data).

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter



**CS 63018 PROBABILISTIC DATA MANAGEMENT 3 Credit Hours**

(Slashed with CS 73018) This course addresses the fundamental concepts and techniques for probabilistic data management in the area of databases. Probabilistic data are pervasive in many real-world applications, such as sensor networks, GPS system, location-based services, mobile computing, multimedia databases, data extraction and integration, trajectory data analysis, semantic web, privacy preserving, and so on. This class also covers major research topics such as probabilistic or uncertain data models, probabilistic queries, probabilistic query answering techniques, and data quality issues in databases.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CS 63100 COMPUTATIONAL HEALTH INFORMATICS 3 Credit Hours**

(Slashed with CS 73100) The course describes computational techniques and software tools for managing and transmitting health related information and automated analysis of medical and biosignal data.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CS 63201 ADVANCED OPERATING SYSTEMS 3 Credit Hours**

(Slashed with CS 73201) Introduction to distributed systems, interprocess communication, distributed mutual exclusion, synchronization and deadlock, distributed process management and distributed file systems.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CS 63301 PARALLEL AND DISTRIBUTED COMPUTING 3 Credit Hours**

(Slashed with CS 73301) Overview of parallel and distributed computing; structuring parallel and distributed programs; parallel programming using SIMD, SPMD, MIMD and associative computing; parallel and distributed architecture using existing machines as case studies.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CS 63304 CLUSTER COMPUTING 3 Credit Hours**

(Slashed with CS 73304) This course will investigate clusters of computers as a computing platform, hardware and software trade-offs for clusters and application performance and programming of clusters.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CS 63305 MULTICORE COMPUTING 3 Credit Hours**

(Slashed with CS 73305) Starting about 2005, hardware architects began putting more than one processing core on a single chip, leading to the recent rapid advancements in multicore processor architectures. This shift has changed almost everything ranging from memory hierarchy and consistency to programming those architectures. The goal of this course is to study multicore processor architectures from the perspective of hardware, software and algorithm design, the challenges, and the technologies that are relevant to those architectures.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CS 63306 EMBEDDED COMPUTING 3 Credit Hours**

(Slashed with CS 73306) Computational issues structuring programs for processors embedded in other devices, such as those found in automobiles and biological and chemical sample processing devices.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CS 63901 SOFTWARE ENGINEERING METHODOLOGIES 3 Credit Hours**

(Slashed with CS 73901) Software process models; modeling languages; software process improvement; requirement analysis and elicitation; advanced systems and architectural design; estimation; verification and validation; reuse; and metrics.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CS 63902 SOFTWARE EVOLUTION 3 Credit Hours**

(Slashed with CS 73902) Methods and techniques supporting later lifecycle activities, including software testing and maintenance, reuse and reverse engineering.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CS 64201 ADVANCED ARTIFICIAL INTELLIGENCE 3 Credit Hours**

(Slashed with CS 74201) Additional topics in AI such as logic programming, advanced problem-solving systems, understanding natural languages, vision, learning, plan-generating systems.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CS 64301 PATTERN RECOGNITION PRINCIPLES 3 Credit Hours**

(Slashed with CS 74301) Introduction to mathematical pattern recognition, feature selection, distribution-free classification, statistical classification, non-supervised learning, sequential learning and application.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CS 64401 IMAGE PROCESSING 3 Credit Hours**

(Slashed with CS 74401) This course covers digital processing of digital imagery. Digitization of TV imagery, noise removal, image enhancement, edge and texture detection, object recognition and scene analysis.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CS 64402 MULTIMEDIA SYSTEMS AND BIOMETRICS 3 Credit Hours**

(Slashed with CS 74402) This course discusses computational techniques for the fusion of multimedia data recorded by sensors for human-identification using automated analysis of biometric signals.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CS 65101 ADVANCED COMPUTER ARCHITECTURE 3 Credit Hours**

(Slashed with CS 75101) System performance measures, processor implementation, pipelining, system interconnection, memory hierarchy interrupts, stack architecture, vector and multiprocessors.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CS 65202 ADVANCED COMMUNICATION NETWORKS 3 Credit Hours**

(Slashed with CS 75202) This course covers central problems that confront network designers in high-speed networking such as real-time traffic, congestion control, quality of service (QoS), performance analysis, traffic management and internet routing.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CS 65203 WIRELESS AND MOBILE COMMUNICATION NETWORKS 3 Credit Hours**

(Slashed with CS 75203) Examines how wireless systems work and how mobile systems are supported by the underlying network infrastructure. Course covers the architecture and the interactions among different functional units in wireless and mobile systems.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CS 65301 SYSTEM MODELING AND PERFORMANCE EVALUATION 3 Credit Hours**

(Slashed with CS 75301) Provides a detailed study of queuing, network models and their application to operating systems, computer time sharing and multi access systems.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CS 66101 ADVANCED TOPICS IN ALGORITHMS 3 Credit Hours**

(Slashed with CS 76101) Advanced algorithms, fast fourier transforms, algorithms on trees and graphs, rational and polynomial arithmetic, gcd, factoring, numerical and symbolic computational algorithms, Risch integration algorithm, pattern matching.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CS 66105 PARALLEL AND DISTRIBUTED ALGORITHMS 3 Credit Hours**

(Slashed with CS 76105) Introduces and evaluates important models of parallel (synchronous and asynchronous) and distributed computation, using basic searching, sorting, graph, matrix, numerical computing and computational geometry algorithms.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CS 66110 COMPUTATIONAL GEOMETRY 3 Credit Hours**

(Slashed with CS 76110) Geometric structures are the underlying model of several important applications, including robotics, graphics, CAD/CAM, VLSI layout, wireless networks and information visualization. Computational geometry studies algorithms for geometric problems.

**Prerequisite:** CS 56101; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CS 67101 ADVANCED COMPUTER GRAPHICS 3 Credit Hours**

(Slashed with CS 77101) In-depth study of active research topics in computer graphics. Topics include volume rendering, image-based rendering and modeling, graphics architectures, virtual reality, modeling in computer graphics, non-photorealistic rendering, computer animation and computer games.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CS 67301 SCIENTIFIC VISUALIZATION 3 Credit Hours**

(Slashed with CS 77301) Discusses the visualization of scientific, engineering and medical data sets. Introduces mechanisms to acquire sampled or computed data and points out methods to transform these data into the visual system.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CS 67302 INFORMATION VISUALIZATION 3 Credit Hours**

(Slashed with CS 77302) Information visualization is the science that unveils the underlying structure of data sets using visual representations that utilize the powerful processing capabilities of the human visual perceptual system. In this class, we will study algorithms and systems for visually exploring, understanding, and analyzing large, complex data sets. Information visualization focuses on abstract data such as symbolic, tabular, networked, hierarchical, or textual information sources. The objectives of the course are to learn the principles involved in information visualization and a variety of existing techniques and systems. The students will also gain backgrounds and skills that will aid the design of new, innovative visualizations in realistic applications.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CS 69098 RESEARCH 1-5 Credit Hours**

(Repeatable for credit) Research or individual investigation. Credits are applied toward degree requirements with approval if grade of 'S' is given.

**Prerequisite:** Graduate standing.

**Schedule Type:** Research

**Contact Hours:** 1-5 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**CS 69099 CAPSTONE PROJECT 3-6 Credit Hours**

The course is an integrative experience that brings together all components of the Masters nonthesis graduate program in an applied, hands-on real-world setting.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Project or Capstone

**Contact Hours:** 3-6 other

**Grade Mode:** Standard Letter-IP

**CS 69191 MASTER'S SEMINAR 1-2 Credit Hours**

(Repeatable for credit) Seminar for masters students to present and discuss computer science related research and academics. Masters students are required to take at least 2 credit hours for completion of degree and make at least one presentation of project work or research. Only two credits count towards the masters degree.

**Prerequisite:** Computer Science major within the Master of Arts or Master of Science degree.

**Schedule Type:** Seminar

**Contact Hours:** 1-2 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**CS 69192 GRADUATE INTERNSHIP 1-3 Credit Hours**

Supervised experience in the chosen graduate program. Since this work will be outside the department, a report and a final presentation will be required.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Practical Experience

**Contact Hours:** 1-3 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**CS 69199 THESIS I 2-6 Credit Hours**

Thesis student must register for total of 6 hours, 2 to 6 hours in a single semester distributed over several semesters if desired.

**Prerequisite:** Graduate standing.

**Schedule Type:** Masters Thesis

**Contact Hours:** 2-6 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**CS 69299 THESIS II 2 Credit Hours**

Thesis students must continue registration each semester until all degree requirements are met.

**Prerequisite:** CS 69199; and graduate standing.

**Schedule Type:** Masters Thesis

**Contact Hours:** 2 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**CS 69995 SPECIAL TOPICS IN COMPUTER SCIENCE 1-3 Credit Hours**

(Repeatable for credit) (Slashed with CS 79995) Special topics in computer science.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 1-3 lecture

**Grade Mode:** Standard Letter

**CS 70094 COLLEGE TEACHING OF COMPUTER SCIENCE 1 Credit Hour**

(Repeatable for credit) (Slashed with CS 60094) Techniques and problems of college teaching of computer science. Student presentation of computer science papers will be included.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 1 lecture

**Grade Mode:** Standard Letter-S/U

**CS 72263 NUMERICAL SOLUTION OF LARGE SPARSE LINEAR SYSTEMS 3 Credit Hours**

(Slashed with CS 62263) (Cross-listed with MATH 62263 and MATH 72263) Construction and analysis of iterative methods for large systems of linear algebraic equations. Jacobi, Gauss-Seidel, SOR. Polynomial acceleration methods, conjugate gradients. Multi-grid methods.

**Prerequisite:** MATH 51021 and CS 52202; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CS 72264 NUMERICAL SOLUTION OF NONLINEAR SYSTEMS 3 Credit Hours**

(Slashed with CS 62264) (Cross-listed with MATH 62264 and MATH 72264) Construction and analysis of numerical methods for systems of non linear algebraic equations and optimization problems. Numerical implementation and software.

**Prerequisite:** MATH 52041 and CS 52202; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CS 73005 ADVANCED DATABASE SYSTEMS DESIGN 3 Credit Hours**

(Slashed with CS 63005) Introduction to a variety of advanced database topics and on-going trends in modern database systems. The course includes advanced issues of object-oriented database, XML, advanced client server architecture and distributed database techniques.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CS 73015 DATA MINING TECHNIQUES 3 Credit Hours**

(Slashed with CS 63015) Concepts and techniques of data mining. Data mining is a process of discovering information from a set of large databases. This course takes a database perspective on data mining.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CS 73016 BIG DATA ANALYTICS 3 Credit Hours**

Introduces computing platforms with the focus on how to utilize them in processing, managing and analyzing massive datasets. The course will utilize several key data processing tasks, including simple statistics, data aggregation, join processing, frequent pattern mining, data clustering, information retrieval, pagerank, and massive graph analytics as the case study for large scale data processing.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CS 73017 BIG DATA MANAGEMENT 3 Credit Hours**

This course will cover a series of important Big-Data-related problems and their solutions. Specifically, we will introduce the characteristics and challenges of the Big Data, state-of-the-art computing paradigm and platforms (e.g., MapReduce), big data programming tools (e.g., Hadoop and MongoDB), big data extraction and integration, big data storage, scalable indexing for big data, big graph processing, big data stream techniques and algorithms, big probabilistic data management, big data privacy, big data visualizations, and big data applications (e.g., spatial, finance, multimedia, medical, health, and social data).

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CS 73018 PROBABILISTIC DATA MANAGEMENT 3 Credit Hours**

(Slashed with CS 63018) This course addresses the fundamental concepts and techniques for probabilistic data management in the area of databases. Probabilistic data are pervasive in many real-world applications, such as sensor networks, GPS system, location-based services, mobile computing, multimedia databases, data extraction and integration, trajectory data analysis, semantic web, and privacy preserving. This class also covers major research topics such as probabilistic or uncertain data models, probabilistic queries, probabilistic query answering techniques, and data quality issues in databases.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CS 73100 COMPUTATIONAL HEALTH INFORMATICS 3 Credit Hours**

(Slashed with CS 63100) The course describes computational techniques and software tools for managing and transmitting health related information and automated analysis of medical and biosignal data.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CS 73118 GRAPH SOCIAL NETWK ANALYSIS 3 Credit Hours**

(Slashed with CS 43118 and CS 53118) This course covers a number of important and useful ideas in graph databases, especially in social networks (e.g. the data model for certain-uncertain graphs), indexing over graphs, and query processing algorithms for graph databases (e.g., single-source path queries, path queries, reachability queries, keyword search queries, subgraph matching, etc.). The influence maximization problems over social networks in real applications are also discussed as well as various queries over the distributed graph database.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CS 73201 ADVANCED OPERATING SYSTEMS 3 Credit Hours**

(Slashed with CS 63201) Introduction to distributed systems, interprocess communication, distributed mutual exclusion, synchronization and deadlock, distributed process management and distributed file systems.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CS 73301 PARALLEL AND DISTRIBUTED COMPUTING 3 Credit Hours**

(Slashed with CS 63301) Overview of parallel and distributed computing; structuring parallel and distributed programs; parallel programming using simd spmd mimd and, associative computing parallel and distributed architecture using existing machines as case studies.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CS 73302 ALGORITHMIC ROBOTICS 3 Credit Hours**

(Slashed with CS 43302 and CS 53302) This course provides students theoretical, mathematical, and practical foundations for the design, analysis, and evaluation of algorithms for robots for diverse robotic applications. We will focus on a principled and mathematically sound approach to the design of algorithms for robots rather than ad hoc and hacking development approaches.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CS 73303 INTERNET OF THINGS 3 Credit Hours**

(Slashed with CS 43303 and CS 53303) This course will provide a comprehensive understanding of the Internet of Things by looking into a variety of real-world application scenarios, existing and new technologies and architectures, communication protocols and standardization efforts, societal and behavioral changes, and how to apply these technologies to tackle real-world problems.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CS 73304 CLUSTER COMPUTING 3 Credit Hours**

(Slashed with CS 63304) This course will investigate clusters of computers as a computing platform, hardware and software tradeoffs for clusters and application performance and programming of clusters.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CS 73305 MULTICORE COMPUTING 3 Credit Hours**

(Slashed with CS 63305) Starting about 2005, hardware architects began putting more than one processing core on a single chip, leading to the recent rapid advancements in multicore processor architectures. This shift has changed almost everything ranging from memory hierarchy and consistency to programming those architectures. The goal of this course is to study multicore processor architectures from the perspective of hardware, software, and algorithm design, the challenges, and the technologies that are relevant to those architectures.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CS 73306 EMBEDDED COMPUTING 3 Credit Hours**

(Slashed with CS 63306) Computational issues structuring programs for processors embedded in other devices such as those found in automobiles and biological chemical sample processing devices.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CS 73334 HUMAN-ROBOT INTERACTION 3 Credit Hours**

(Slashed with CS 43334 and CS 53334) Human-Robot Interaction (HRI) is the study of interactions between humans and robots dedicated to understanding, designing, and evaluating robotic systems for use by and with humans. HRI is a multidisciplinary field that incorporates human-computer interaction, artificial intelligence, robotics, natural language understanding, design, and social sciences. Interaction between humans and robots may take several forms, but are generally categorized by how close in proximity the humans and robots are to each other such as remote, proximate, and hybrid interaction. In the class, students will learn the fundamental technologies and theories in each category, and blend this knowledge with various case studies and lab activities.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CS 73901 SOFTWARE ENGINEERING METHODOLOGIES 3 Credit Hours**

(Slashed with CS 63901) Software process models; modeling languages; software process improvement; requirement analysis and elicitation; advanced systems and architectural design; estimation; verification and validation reuse; and metrics.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CS 73902 SOFTWARE EVOLUTION 3 Credit Hours**

(Slashed with CS 63902) Methods and techniques supporting later lifecycle activities, including software testing and maintenance reuse and reverse engineering.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CS 74201 ADVANCED ARTIFICIAL INTELLIGENCE 3 Credit Hours**

(Slashed with CS 64201) Additional topics in AI such as logic programming, advanced problem-solving systems, understanding natural languages, vision, learning, plan generating systems.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CS 74301 PATTERN RECOGNITION PRINCIPLES 3 Credit Hours**

(Slashed with CS 64301) Introduction to mathematical pattern recognition, feature selection, distribution-free classification, statistical classification, nonsupervised learning, sequential learning and application.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CS 74401 IMAGE PROCESSING 3 Credit Hours**

(Slashed with CS 64401) This course covers digital processing of digital imagery. Digitization of TV imagery, noise removal, image enhancement, edge and texture detection, object recognition and scene analysis.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CS 74402 MULTIMEDIA SYSTEMS AND BIOMETRICS 3 Credit Hours**

(Slashed with CS 64402) This course discusses computational techniques for fusion of multimedia data collected by sensors for human-identification using automated analysis of biometric signals.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CS 75101 ADVANCED COMPUTER ARCHITECTURE 3 Credit Hours**

(Slashed with CS 65101) System performance measures, processor implementation, pipelining, system interconnection, memory hierarchy interrupts, stack architecture, vector and multiprocessors.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CS 75202 ADVANCED COMMUNICATION NETWORKS 3 Credit Hours**

(Slashed with CS 65202) This course covers central problems that confront network designers in high-speed networking such as real-time traffic, congestion control, quality of service (QoS), performance analysis, traffic management and internet routing.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter



**CS 75203 WIRELESS AND MOBILE COMMUNICATION NETWORKS 3 Credit Hours**

(Slashed with CS 65203) Examines how wireless systems work and how mobile systems are supported by the underlying network infrastructure. Course covers the architecture and the interactions among different functional units in wireless and mobile systems.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CS 75301 SYSTEM MODELING AND PERFORMANCE EVALUATION 3 Credit Hours**

(Slashed with CS 65301) Provides a detailed study of queuing, network models and their application to operating systems, computer time sharing and multi-access systems.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CS 76101 ADVANCED TOPICS IN ALGORITHMS 3 Credit Hours**

(Slashed with CS 66101) Advanced algorithms, fast Fourier transforms, algorithms on trees and graphs, rational and polynomial arithmetic, GCD, factoring, numerical and symbolic computational algorithms, Rischintegration algorithm, pattern matching.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CS 76105 PARALLEL AND DISTRIBUTED ALGORITHMS 3 Credit Hours**

(Slashed with CS 66105) Introduces and evaluates important models of parallel (synchronous and asynchronous) and distributed computation, using basic searching, sorting, graph, matrix, numerical computing and computational geometry algorithms.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CS 76110 COMPUTATIONAL GEOMETRY 3 Credit Hours**

(Slashed with CS 66110) Geometric structures are the underlying model of several important applications, including robotics, graphics, CAD/CAM, VLSI layout, wireless networks and information visualization. Computational geometry studies algorithms for geometric problems.

**Prerequisite:** CS 56101; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CS 77101 ADVANCED COMPUTER GRAPHICS 3 Credit Hours**

(Slashed with CS 67101) In-depth study of active research topics in computer graphics. Topics include volume rendering, image-based rendering and modeling, graphics architectures, virtual reality, modeling in computer graphics, non-photorealistic rendering, computer animation and computer games.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CS 77301 SCIENTIFIC VISUALIZATION 3 Credit Hours**

(Slashed with CS 67301) Discusses the visualization of scientific, engineering and medical data sets. Introduces mechanisms to acquire sampled or computed data and points out methods to transform these data into the visual system.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CS 77302 INFORMATION VISUALIZATION 3 Credit Hours**

(Slashed with CS 67302) Information visualization is the science that unveils the underlying structure of data sets using visual representations that utilize the powerful processing capabilities of the human visual perceptual system. In this class, we will study algorithms and systems for visually exploring, understanding, and analyzing large, complex data sets. Information visualization focuses on abstract data such as symbolic, tabular, networked, hierarchical, or textual information sources. The objectives of the course are to learn the principles involved in information visualization and a variety of existing techniques and systems. The students will also gain backgrounds and skills that will aid the design of new, innovative visualizations in realistic applications.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CS 79995 SPECIAL TOPICS IN COMPUTER SCIENCE 1-3 Credit Hours**

(Repeatable for credit) (Slashed with CS 69995) Special topics in computer science.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 1-3 lecture

**Grade Mode:** Standard Letter

**CS 89098 RESEARCH 1-15 Credit Hours**

(Repeatable for credit) Research or individual investigation for doctoral students who have not yet passed their candidacy examinations.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Research

**Contact Hours:** 1-15 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**CS 89191 DOCTORAL SEMINAR 1-2 Credit Hours**

(Repeatable for credit) Seminar for doctoral students to present and discuss computer science related research and academics. Doctoral students are required to take at least 3 credit hours for completion of degree and make at least two presentations of project work or research. Only two credits count towards the doctoral degree.

**Prerequisite:** Computer Science major within the Doctor of Philosophy degree.

**Schedule Type:** Seminar

**Contact Hours:** 1-2 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**CS 89199 DISSERTATION I 15 Credit Hours**

(Repeatable for credit) Doctoral dissertation, for which registration in at least two semesters is required, first of which will be semester in which dissertation work is begun and continuing until the completion of 30 hours.

**Prerequisite:** Doctoral standing; and special approval.

**Schedule Type:** Dissertation

**Contact Hours:** 15 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**CS 89299 DISSERTATION II 15 Credit Hours**

(Repeatable for credit)Continuing registration required for doctoral students who have completed the initial 30 hours of dissertation and continuing until all degree requirements are met.

**Prerequisite:** CS 89199; and doctoral standing.

**Schedule Type:** Dissertation

**Contact Hours:** 15 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**CS 89991 RESEARCH SEMINAR IN COMPUTER SCIENCE 1-3 Credit Hours**

(Repeatable for credit)Research seminar on current research in computer science.

**Prerequisite:** Doctoral standing; and special approval.

**Schedule Type:** Seminar

**Contact Hours:** 1-3 other

**Grade Mode:** Standard Letter

## Computer Science - B.A.

**College of Arts and Sciences**

Department of Computer Science

241 Mathematics and Computer Science Building

Kent Campus

330-672-9980

depsec@cs.kent.edu

www.kent.edu/cs

### Description

The Bachelor of Arts degree in Computer Science is designed for students who seek a liberal arts education combined with a solid foundation in computer science. Students may choose electives from any complementary liberal arts program beyond computer science.

Students have the option to have a double major to attain depth of knowledge across two related areas.

**Fully Offered At:**

- Kent Campus
- Stark Campus

### Admission Requirements

The university affirmatively strives to provide educational opportunities and access to students with varied backgrounds, those with special talents and adult students who graduated from high school three or more years ago.

**Freshman Students on the Kent Campus:** The freshman admission policy on the Kent Campus is selective. Admission decisions are based upon the following: cumulative grade point average, ACT and/or SAT scores, strength of high school college preparatory curriculum and grade trends. The Admissions Office at the Kent Campus may defer the admission of students who do not meet admissions criteria but who demonstrate areas of promise for successful college study. Deferred applicants may begin their college coursework at one of seven regional campuses of Kent State University. For more information on admissions, including additional requirements for some academic programs, visit the admissions website for new freshmen.

**Freshman Students on the Regional Campuses:** Kent State campuses at Ashtabula, East Liverpool, Geauga, Salem, Stark, Trumbull and Tuscarawas, as well as the Regional Academic Center in Twinsburg, have open enrollment admission for students who hold a high school diploma, GED or equivalent.

**English Language Proficiency Requirements for International Students:**

All international students must provide proof of English language proficiency (unless they meet specific exceptions) by earning a minimum 525 TOEFL score (71 on the Internet-based version), minimum 75 MELAB score, minimum 6.0 IELTS score or minimum 48 PTE score, or by completing the ESL level 112 Intensive Program. For more information on international admission, visit the Office of Global Education's admission website.

**Transfer, Transitioning and Former Students:** For more information about admission criteria for transfer, transitioning and former students, please visit the admissions website.

### Program Learning Outcomes

Graduates of this program will be able to:

1. Understand the essential facts, concepts, principles and theories relating to computer science.
2. Apply computer science concepts to solve computer-related problems.
3. Analyze algorithms, computer science methods and techniques.
4. Analyze and plan the development of a typical professional computer science problem.
5. Make succinct oral presentations and written expositions about technical problems and their solutions.
6. Work effectively as a member of a software development team.

### University Requirements

All students in a bachelor's degree program at Kent State University must complete the following university requirements for graduation.

**NOTE:** University requirements may be fulfilled in this program by specific course requirements. Please see Program Requirements for details.

Destination Kent State: First Year Experience	1
Course is not required for students with 25 transfer credits, excluding College Credit Plus, or age 21+ at time of admission.	
Diversity Domestic/Global (DIVD/DIVG)	2 courses
Students must successfully complete one domestic and one global course, of which one must be from the Kent Core.	
Experiential Learning Requirement (ELR)	varies
Students must successfully complete one course or approved experience.	
Kent Core (see table below)	36-37
Writing-Intensive Course (WIC)	1 course
Students must earn a minimum C grade in the course.	
Upper-Division Requirement	39 (or 42)
Students must successfully complete 39 upper-division (numbered 30000 to 49999) credit hours to graduate. Students in a B.A. and/or B.S. degree in the College of Arts and Sciences must complete 42 upper-division credit hours.	
Total Credit Hour Requirement	120

Some bachelor's degrees require students to complete more than 120 credit hours.

## Kent Core Requirements

Kent Core Composition (KCOMP)	6
Kent Core Mathematics and Critical Reasoning (KMCR)	3
Kent Core Humanities and Fine Arts (KHUM/KFA) (min one course each)	9
Kent Core Social Sciences (KSS) (must be from two disciplines)	6
Kent Core Basic Sciences (KBS/KLAB) (must include one laboratory)	6-7
Kent Core Additional (KADL)	6
<b>Total Credit Hours:</b>	<b>36-37</b>

## Program Requirements

### Major Requirements

Code	Title	Credit Hours
<b>Major Requirements (courses count in major GPA)</b>		
CS 13011 & CS 13012	COMPUTER SCIENCE IA: PROCEDURAL PROGRAMMING and COMPUTER SCIENCE IB: OBJECT ORIENTED PROGRAMMING (min C grade) <sup>1</sup>	4
or CS 13001	COMPUTER SCIENCE I: PROGRAMMING AND PROBLEM SOLVING	
CS 23001	COMPUTER SCIENCE II: DATA STRUCTURES AND ABSTRACTION (min. C grade)	4
CS 23022	DISCRETE STRUCTURES FOR COMPUTER SCIENCE	3
CS 33101	STRUCTURE OF PROGRAMMING LANGUAGES	3
CS 33211	OPERATING SYSTEMS	3
CS 35101	COMPUTER ORGANIZATION	3
CS 44901	SOFTWARE DEVELOPMENT PROJECT (ELR) (WIC) <sup>2</sup>	4
Computer Science (CS) Upper-Division Electives (30000 or 40000 level) <sup>3</sup>		9
Computer Science (CS) Upper-Division Electives (40000 level)		9
<b>Additional Requirements (courses do not count in major GPA)</b>		
UC 10097	DESTINATION KENT STATE: FIRST YEAR EXPERIENCE	1
Foreign Language (see Foreign Language College Requirement below)		14-16
Kent Core Composition		6
Kent Core Mathematics and Critical Reasoning		3
Kent Core Humanities and Fine Arts (minimum one course from each)		9
Kent Core Social Sciences (must be from two disciplines)		6
Kent Core Basic Sciences (must include one laboratory)		6-7
Kent Core Additional		6
College General Requirement (must be from Kent Core Basic Sciences) <sup>4</sup>		3
College General Requirement (must be from Kent Core Social Sciences) <sup>5</sup>		3
General Electives (total credit hours depends on earning 120 credit hours, including 42 upper-division credit hours)		21
Minimum Total Credit Hours:		120

<sup>1</sup> Minimum C grade must be earned in either CS 13001 or in both CS 13011 and CS 13012 for graduation.

<sup>2</sup> A minimum C grade must be earned to fulfill the writing-intensive requirement.

<sup>3</sup> Students may apply a maximum of 3 credit hours of CS 33192 to the Computer Science Upper-Division Electives.

<sup>4</sup> One additional course taken from the Kent Core Basic Sciences courses in the following Arts and Sciences disciplines: Anthropology (ANTH), Biology (BSCI), Chemistry (CHEM), Geography (GEOG), Geology (GEOL) or Physics (PHY). Students may take the courses listed in the 'introductory' sequences with the restrictions noted above in the Kent Core Basic Sciences section. The course may not be from the student's major.

<sup>5</sup> One additional course taken from the Kent Core Social Sciences courses in the following Arts and Sciences disciplines: Anthropology (ANTH), Geography (GEOG), Criminology and Justice Studies (CRIM), Peace and Conflict Studies (PACS), Political Science (POL), Psychology (PSYC) or Sociology (SOC). The course may not be from the student's major.

### Graduation Requirements

Minimum Major GPA	Minimum Overall GPA
2.000	2.000

- A minimum C grade may be required in some courses

### Foreign Language College Requirement

Students pursuing the Bachelor of Arts degree in the College of Arts and Sciences must complete 14-16 credit hours of foreign language. <sup>1</sup> To complete the requirement, students have the equivalent of Elementary I and II in any language, plus one of the following options:

- Intermediate I and II of the same language <sup>2</sup>
- Elementary I and II of a second language
- Any combination of two courses from the following list:

- Intermediate I of the same language
- MCLS 10001 INTRODUCTION TO STRUCTURAL CONCEPTS FOR LANGUAGE STUDENTS
- MCLS 20091 VARIABLE CONTENT SEMINAR IN GLOBAL LITERACY: CASE STUDIES
- MCLS 21417 MULTICULTURALISM IN TODAY'S GERMANY (DIVG)
- MCLS 28404 THE LATIN AMERICAN EXPERIENCE (DIVG)

<sup>1</sup> All students with prior foreign language experience should take the foreign language placement test to determine the appropriate level at which to start. Some students may begin beyond the Elementary I level and will complete the requirement with fewer credit hours and fewer courses. This may be accomplished by (1) passing a course beyond Elementary I through Intermediate II level; (2) receiving credit through Credit by Exam (CBE), Advanced Placement (AP), International Baccalaureate (IB) or College Level Examination Program (CLEP); or (3) being designated a 'native speaker' of a non-English language (consult with the College of Arts and Sciences Advising Office for additional information). When students complete the requirement with fewer than 14 credit hours and four courses, they will complete remaining credit hours with general electives.

<sup>2</sup> Certain majors, concentrations and minors may require specific languages, limit the languages from which a student may choose or require coursework through Intermediate II. Students who plan to pursue graduate study may need particular language coursework.



## Roadmap

This roadmap is a recommended semester-by-semester plan of study for this major. However, courses designated as critical (!) must be completed in the semester listed to ensure a timely graduation.

Semester One		Credits
!	CS 13011 COMPUTER SCIENCE IA: PROCEDURAL PROGRAMMING & CS 13012 PROGRAMMING or CS 13001 and COMPUTER SCIENCE IB: OBJECT ORIENTED PROGRAMMING or COMPUTER SCIENCE I: PROGRAMMING AND PROBLEM SOLVING	4
	UC 10097 DESTINATION KENT STATE: FIRST YEAR EXPERIENCE	1
	Kent Core Requirement	3
	Kent Core Requirement	3
	Kent Core Requirement	3
Credit Hours		14
Semester Two		Credits
!	CS 23022 DISCRETE STRUCTURES FOR COMPUTER SCIENCE	3
	College General Requirement	3
	Kent Core Requirement	3
	Kent Core Requirement	3
	Kent Core Requirement	3
Credit Hours		15
Semester Three		Credits
!	CS 23001 COMPUTER SCIENCE II: DATA STRUCTURES AND ABSTRACTION	4
!	CS 35101 COMPUTER ORGANIZATION	3
	Foreign Language	4
	College General Requirement	3
	Kent Core Requirement	3
Credit Hours		17
Semester Four		Credits
!	CS 33101 STRUCTURE OF PROGRAMMING LANGUAGES	3
!	CS 33211 OPERATING SYSTEMS	3
	Computer Science (CS) Upper-Division Elective (30000 or 40000 level)	3
	Foreign Language	4
	Kent Core Requirement	3
Credit Hours		16
Semester Five		Credits
	Computer Science (CS) Upper-Division Electives (30000 or 40000 level)	6
	Foreign Language	3
	Kent Core Requirement	3
	Kent Core Requirement	3
Credit Hours		15
Semester Six		Credits
	Computer Science (CS) Upper-Division Electives (40000 level)	3
	Foreign Language	3
	Kent Core Requirement	3
	Kent Core Requirement	3
	General Elective	3
Credit Hours		15
Semester Seven		Credits
	Computer Science (CS) Upper-Division Elective (40000 level)	3

General Electives		12
Credit Hours		15
Semester Eight		Credits
!	CS 44901 SOFTWARE DEVELOPMENT PROJECT (ELR) (WIC)	4
Computer Science (CS) Upper-Division Elective (40000 level)		3
General Electives		6
Credit Hours		13
Minimum Total Credit Hours:		120

## Computer Science - B.S.

### College of Arts and Sciences

Department of Computer Science

241 Mathematics and Computer Science Building

Kent Campus

330-672-9980

depsec@cs.kent.edu

www.kent.edu/cs

## Description

The Bachelor of Science degree in Computer Science seeks to prepare students to have successful careers as computing professionals, with a solid understanding of software development and computer systems and the foundation for life-long learning in the field; to have an academic foundation suitable for graduate study in computer science or related areas; to be able to function effectively on software development teams, with oral and written communication skills. and with an understanding of professional ethics and responsibility.

Graduates of the B.S. degree in Computer Science have careers in developing, managing and building software in a variety of industries, including finance, health care, entertainment, telecommunications and manufacturing. The U.S. Bureau of Labor Statistics lists the following as top occupation choices for Computer Science majors: computer network architect; software developer; information security analyst; database administrator; computer systems analyst; computer programmer; and network and computer systems administrator.

Computer Science students may apply early to the M.S. degree in Computer Science and double count 9 credit hours of graduate courses toward both degree programs. See the Combined Bachelor's/Master's Degree Program policy in the University Catalog for more information.

The Computer Science major includes the following optional concentrations:

- The **Data Engineering** concentration prepares students to perform the data analysis and modeling needed by organizations and to process structured, semi-structured, and unstructured data using statistical and semantic analysis techniques to meet their employers' needs.
- The **Game Programming** concentration provides students with a solid understanding of the algorithms, techniques and software used to construct interactive virtual environments. Students work in teams with content specialists and artists to develop the teamwork skills required in this multidisciplinary field, which includes a range of opportunities, from the game industry to education to training design.
- The **Information Security** concentration prepares students to meet the security needs of industry and government through coursework that provides a thorough understanding of security, privacy and



cryptographic techniques and protocols used in computing and communication.

- The **Robotics and Embedded Systems** concentration prepares students to work with devices that combine hardware and software. Such devices include robots and most high tech mechanical devices like cars, planes, farm equipment and construction equipment.

### Fully Offered At:

- Kent Campus
- Stark Campus (no concentration and Information Security optional concentration)

## Admission Requirements

The university affirmatively strives to provide educational opportunities and access to students with varied backgrounds, those with special talents and adult students who graduated from high school three or more years ago.

**Freshman Students on the Kent Campus:** The freshman admission policy on the Kent Campus is selective. Admission decisions are based upon the following: cumulative grade point average, ACT and/or SAT scores, strength of high school college preparatory curriculum and grade trends. The Admissions Office at the Kent Campus may defer the admission of students who do not meet admissions criteria but who demonstrate areas of promise for successful college study. Deferred applicants may begin their college coursework at one of seven regional campuses of Kent State University. For more information on admissions, including additional requirements for some academic programs, visit the admissions website for new freshmen.

**Freshman Students on the Regional Campuses:** Kent State campuses at Ashtabula, East Liverpool, Geauga, Salem, Stark, Trumbull and Tuscarawas, as well as the Regional Academic Center in Twinsburg, have open enrollment admission for students who hold a high school diploma, GED or equivalent.

**English Language Proficiency Requirements for International Students:** All international students must provide proof of English language proficiency (unless they meet specific exceptions) by earning a minimum 525 TOEFL score (71 on the Internet-based version), minimum 75 MELAB score, minimum 6.0 IELTS score or minimum 48 PTE score, or by completing the ESL level 112 Intensive Program. For more information on international admission, visit the Office of Global Education's admission website.

**Transfer, Transitioning and Former Students:** For more information about admission criteria for transfer, transitioning and former students, please visit the admissions website.

## Program Learning Outcomes

Graduates of this program will be able to:

1. Analyze a complex computing problem and to apply principles of computing and other relevant disciplines to identify solutions.
2. Design, implement and evaluate a computing-based solution to meet a given set of computing requirements in the context of the program's discipline.
3. Communicate effectively in a variety of professional contexts.

4. Recognize professional responsibilities and make informed judgments in computing practice based on legal and ethical principles.
5. Function effectively as a member or leader of a team engaged in activities appropriate to the program's discipline.
6. Apply computer science theory and software development fundamentals to produce computing-based solutions.

## University Requirements

All students in a bachelor's degree program at Kent State University must complete the following university requirements for graduation.

**NOTE:** University requirements may be fulfilled in this program by specific course requirements. Please see Program Requirements for details.

Destination Kent State: First Year Experience	1
Course is not required for students with 25 transfer credits, excluding College Credit Plus, or age 21+ at time of admission.	
Diversity Domestic/Global (DIVD/DIVG)	2 courses
Students must successfully complete one domestic and one global course, of which one must be from the Kent Core.	
Experiential Learning Requirement (ELR)	varies
Students must successfully complete one course or approved experience.	
Kent Core (see table below)	36-37
Writing-Intensive Course (WIC)	1 course
Students must earn a minimum C grade in the course.	
Upper-Division Requirement	39 (or 42)
Students must successfully complete 39 upper-division (numbered 30000 to 49999) credit hours to graduate. Students in a B.A. and/or B.S. degree in the College of Arts and Sciences must complete 42 upper-division credit hours.	
Total Credit Hour Requirement	120
Some bachelor's degrees require students to complete more than 120 credit hours.	

## Kent Core Requirements

Kent Core Composition (KCMP)	6
Kent Core Mathematics and Critical Reasoning (KMCR)	3
Kent Core Humanities and Fine Arts (KHUM/KFA) (min one course each)	9
Kent Core Social Sciences (KSS) (must be from two disciplines)	6
Kent Core Basic Sciences (KBS/KLAB) (must include one laboratory)	6-7
Kent Core Additional (KADL)	6
<b>Total Credit Hours:</b>	<b>36-37</b>

## Program Requirements

### Major Requirements

Code	Title	Credit Hours
<b>Major Requirements (courses count in major GPA)</b>		
CS 13011 & CS 13012	COMPUTER SCIENCE IA: PROCEDURAL PROGRAMMING and COMPUTER SCIENCE IB: OBJECT ORIENTED PROGRAMMING (min C grade) <sup>1</sup>	4

or CS 13001	COMPUTER SCIENCE I: PROGRAMMING AND PROBLEM SOLVING	
CS 23001	COMPUTER SCIENCE II: DATA STRUCTURES AND ABSTRACTION (min C grade)	4
CS 23022	DISCRETE STRUCTURES FOR COMPUTER SCIENCE	3
CS 32301	HUMAN INTERFACE COMPUTING	3
CS 33007	INTRODUCTION TO DATABASE SYSTEM DESIGN	3
CS 33101	STRUCTURE OF PROGRAMMING LANGUAGES	3
CS 33211	OPERATING SYSTEMS	3
CS 33901	SOFTWARE ENGINEERING	3
CS 35101	COMPUTER ORGANIZATION	3
CS 35201	COMPUTER COMMUNICATION NETWORKS	3
CS 44001	COMPUTER SCIENCE III-PROGRAMMING PATTERNS	4
CS 46101	DESIGN AND ANALYSIS OF ALGORITHMS	3
MATH 12002	ANALYTIC GEOMETRY AND CALCULUS I (KMCR)	5
MATH 12013	BRIEF CALCULUS II	3
MATH 20011	DECISION-MAKING UNDER UNCERTAINTY	3
MATH 21002	APPLIED LINEAR ALGEBRA	3
<b>Additional Requirements (courses do not count in major GPA)</b>		
UC 10097	DESTINATION KENT STATE: FIRST YEAR EXPERIENCE	1
Foreign Language (see Foreign Language College Requirement below)		8
Kent Core Composition		6
Kent Core Humanities and Fine Arts (minimum one course from each)		9
Kent Core Social Sciences (must be from two disciplines)		6
Kent Core Basic Sciences (must include one laboratory)		6-7
Kent Core Additional		6
General Electives (total credit hours depends on earning 120 credit hours, including 42 upper-division credit hours)		6
<b>Additional Requirements or Concentrations</b>		
Choose from the following:		19
Additional Requirements for Students Not Declaring a Concentration		
Data Engineering Concentration		
Game Programming Concentration		
Information Security Concentration		
Robotics and Embedded Systems Concentration		
Minimum Total Credit Hours:		120

<sup>1</sup> Minimum C grade must be earned in CS 13001 or in both CS 13011 and CS 13012 for graduation.

### ADDITIONAL REQUIREMENTS FOR STUDENTS NOT DECLARING A CONCENTRATION

Code	Title	Credit Hours
<b>Major Requirements (courses count in major GPA)</b>		
CS 49999	CAPSTONE PROJECT (ELR) (WIC)	4
Computer Science (CS) Upper-Division Electives (30000 or 40000 level)		6
Computer Science (CS) Upper-Division Electives (40000 level)		9
Minimum Total Credit Hours:		19

<sup>1</sup> A minimum C grade is required to fulfill the writing-intensive requirement.

### Data Engineering Concentration Requirements

Code	Title	Credit Hours
<b>Concentration Requirements (courses count in major GPA)</b>		
CS 43016	BIG DATA ANALYTICS	3
CS 43105	DATA MINING TECHNIQUES	3
CS 43118	GRAPH AND SOCIAL NETWORK ANALYSIS	3
CS 49999	CAPSTONE PROJECT (ELR) (WIC)	4
Computer Science (CS) Upper-Division Electives (30000 or 40000 level)		3
Computer Science (CS) Upper-Division Elective (40000 level only)		3
Minimum Total Credit Hours:		19

<sup>1</sup> A minimum C grade is required to fulfill the writing-intensive requirement.

### Game Programming Concentration requirements

Code	Title	Credit Hours
<b>Concentration Requirements (courses count in major GPA)</b>		
CS 38101	INTRODUCTION TO GAME PROGRAMMING	3
CS 47101	COMPUTER GRAPHICS	3
CS 48101	GAME ENGINE CONCEPTS	3
CS 48102	GAME DEVELOPMENT PRACTICUM (ELR) (WIC)	4
Computer Science (CS) Upper-Division Electives (40000 level)		6
Minimum Total Credit Hours:		19

<sup>1</sup> A minimum C grade is required to fulfill the writing-intensive requirement.

### Information Security Concentration requirements

Code	Title	Credit Hours
<b>Concentration Requirements (courses count in major GPA)</b>		
CS 43203	SYSTEMS PROGRAMMING	3
CS 45203	COMPUTER NETWORK SECURITY	3
CS 47205	INFORMATION SECURITY	3
CS 47221	INTRODUCTION TO CRYPTOLOGY	3
CS 49999	CAPSTONE PROJECT (ELR) (WIC)	4
Concentration Electives, choose from the following:		3
CS 43401	SECURE PROGRAMMING	
CS 47206	DATA SECURITY AND PRIVACY	
CS 47207	DIGITAL FORENSICS	
Minimum Total Credit Hours:		19

<sup>1</sup> A minimum C grade is required to fulfill the writing-intensive requirement.

### Robotic and Embedded Systems Concentration Requirements

Code	Title	Credit Hours
<b>Concentration Requirements (courses count in major GPA)</b>		
CS 23301	ROBOTICS AND EMBEDDED SYSTEMS LABORATORY I	1

CS 23302	ROBOTICS AND EMBEDDED SYSTEMS LABORATORY II	2
CS 33301	EMBEDDED SYSTEM PROGRAMMING	3
CS 43302	ALGORITHMIC ROBOTICS	3
or CS 43303	INTERNET OF THINGS	
or CS 43334	HUMAN-ROBOT INTERACTION	
CS 49999	CAPSTONE PROJECT (ELR) (WIC)	4
Concentration Elective, choose from the following:		6
CS 43203	SYSTEMS PROGRAMMING	
CS 43301	SOFTWARE DEVELOPMENT FOR ROBOTICS	
CS 43302	ALGORITHMIC ROBOTICS	
CS 43303	INTERNET OF THINGS	
CS 43334	HUMAN-ROBOT INTERACTION	
CS 44201	ARTIFICIAL INTELLIGENCE	
CS 45102	CENTRAL PROCESSING UNIT (CPU) ARCHITECTURES	
CS 45203	COMPUTER NETWORK SECURITY	
CS 45231	INTERNET ENGINEERING	
CS 47201	HUMAN COMPUTER INTERACTION	
Minimum Total Credit Hours:		19

<sup>1</sup> A minimum C grade is required to fulfill the writing-intensive requirement.

## Graduation Requirements

Minimum Major GPA	Minimum Overall GPA
2.000	2.000

- A minimum grade may be required in some courses

### Foreign Language College Requirement

- Students pursuing the Bachelor of Science degree in the College of Arts and Sciences must complete 8 credit hours of foreign language.<sup>1</sup>
- Minimum Elementary I and II of the same language

<sup>1</sup> All students with prior foreign language experience should take the foreign language placement test to determine the appropriate level at which to start. Some students may begin their university foreign language experience beyond the Elementary I level and will complete the requirement with fewer credit hours and fewer courses. This may be accomplished by: (1) passing a course beyond the Elementary I through Intermediate II level or (2) receiving credit through Credit by Exam (CBE), the College Level Examination Program (CLEP), the Advanced Placement (AP) exam or credit through the International Baccalaureate (IB) program; or (3) being designated a 'native speaker' of a non-English language (consult with the College of Arts and Sciences Advising Office for additional information). When students complete the requirement with fewer than 8 credit hours and two courses, they will complete the remaining hours with general electives.

## Roadmaps

- Computer Science Major (no concentration)
- Data Engineering Concentration
- Game Programming Concentration
- Information Security Concentration
- Robotics and Embedded Systems Concentration

### Computer Science Major (no concentration)

This roadmap is a recommended semester-by-semester plan of study for this major. However, courses designated as critical (!) must be completed in the semester listed to ensure a timely graduation.

Semester One		Credits	
!	CS 13011 & CS 13012 or CS 13001	COMPUTER SCIENCE IA: PROCEDURAL PROGRAMMING and COMPUTER SCIENCE IB: OBJECT ORIENTED PROGRAMMING or COMPUTER SCIENCE I: PROGRAMMING AND PROBLEM SOLVING	4
	MATH 12002	ANALYTIC GEOMETRY AND CALCULUS I (KMCR)	5
	UC 10097	DESTINATION KENT STATE: FIRST YEAR EXPERIENCE	1
	Kent Core Requirement		3
	General Electives		3
Credit Hours			16
Semester Two		Credits	
!	CS 23001	COMPUTER SCIENCE II: DATA STRUCTURES AND ABSTRACTION	4
!	CS 23022	DISCRETE STRUCTURES FOR COMPUTER SCIENCE	3
	MATH 12013	BRIEF CALCULUS II	3
	MATH 20011	DECISION-MAKING UNDER UNCERTAINTY	3
	Kent Core Requirement		3
Credit Hours			16
Semester Three		Credits	
!	CS 33211	OPERATING SYSTEMS	3
!	CS 35101	COMPUTER ORGANIZATION	3
	MATH 21002	APPLIED LINEAR ALGEBRA	3
	Foreign Language		4
Credit Hours			13
Semester Four		Credits	
	CS 32301	HUMAN INTERFACE COMPUTING	3
	CS 33007	INTRODUCTION TO DATABASE SYSTEM DESIGN	3
	CS 35201	COMPUTER COMMUNICATION NETWORKS	3
	Foreign Language		4
Credit Hours			13
Semester Five		Credits	
!	CS 33901	SOFTWARE ENGINEERING	3
	CS 44001	COMPUTER SCIENCE III-PROGRAMMING PATTERNS	4
!	CS 46101	DESIGN AND ANALYSIS OF ALGORITHMS	3
	Kent Core Requirement		3
	Kent Core Requirement		3
Credit Hours			16
Semester Six		Credits	
!	CS 33101	STRUCTURE OF PROGRAMMING LANGUAGES	3
	Computer Science (CS) Upper-Division Electives (30000 or 40000 level)		3

	Kent Core Requirement		3
	Kent Core Requirement		3
	Kent Core Requirement		3
Credit Hours			15
Semester Seven		Credits	
	CS 49999	CAPSTONE PROJECT (ELR) (WIC)	4
	Computer Science (CS) Upper-Division Electives (30000 or 40000 level)		3
	Computer Science (CS) Upper-Division Electives (40000 level)		3
	Kent Core Requirement		3
	Kent Core Requirement		3
Credit Hours			16
Semester Eight		Credits	
	Computer Science (CS) Upper-Division Electives (40000 level)		6
	Kent Core Requirement		3
	Kent Core Requirement		3
	General Electives		3
Credit Hours			15
Minimum Total Credit Hours:			120

### Data Engineering Concentration

This roadmap is a recommended semester-by-semester plan of study for this major. However, courses designated as critical (!) must be completed in the semester listed to ensure a timely graduation.

Semester One		Credits	
!	CS 13011 & CS 13012 or CS 13001	COMPUTER SCIENCE IA: PROCEDURAL PROGRAMMING and COMPUTER SCIENCE IB: OBJECT ORIENTED PROGRAMMING or COMPUTER SCIENCE I: PROGRAMMING AND PROBLEM SOLVING	4
	MATH 12002	ANALYTIC GEOMETRY AND CALCULUS I (KMCR)	5
	UC 10097	DESTINATION KENT STATE: FIRST YEAR EXPERIENCE	1
	Kent Core Requirement		3
	General Electives		2
Credit Hours			15
Semester Two		Credits	
!	CS 23001	COMPUTER SCIENCE II: DATA STRUCTURES AND ABSTRACTION	4
!	CS 23022	DISCRETE STRUCTURES FOR COMPUTER SCIENCE	3
	MATH 12013	BRIEF CALCULUS II	3
	MATH 20011	DECISION-MAKING UNDER UNCERTAINTY	3
	Kent Core Requirement		3
Credit Hours			16
Semester Three		Credits	
!	CS 33211	OPERATING SYSTEMS	3
!	CS 35101	COMPUTER ORGANIZATION	3
	MATH 21002	APPLIED LINEAR ALGEBRA	3
	Foreign Language		4
Credit Hours			13
Semester Four		Credits	
	CS 32301	HUMAN INTERFACE COMPUTING	3
!	CS 33007	INTRODUCTION TO DATABASE SYSTEM DESIGN	3
!	CS 35201	COMPUTER COMMUNICATION NETWORKS	3
	Foreign Language		4

Kent Core Requirement	3
Credit Hours	16
<b>Semester Five</b>	
! CS 33901 SOFTWARE ENGINEERING	3
CS 43105 DATA MINING TECHNIQUES	3
! CS 46101 DESIGN AND ANALYSIS OF ALGORITHMS	3
Kent Core Requirement	3
General Elective	2
Credit Hours	14
<b>Semester Six</b>	
! CS 33101 STRUCTURE OF PROGRAMMING LANGUAGES	3
CS 43016 BIG DATA ANALYTICS	3
CS 44001 COMPUTER SCIENCE III-PROGRAMMING PATTERNS	4
Kent Core Requirement	3
Kent Core Requirement	3
Credit Hours	16
<b>Semester Seven</b>	
CS 43118 GRAPH AND SOCIAL NETWORK ANALYSIS	3
Computer Science (CS) Upper-Division Elective (30000 or 40000 level)	3
Kent Core Requirement	3
Kent Core Requirement	3
Kent Core Requirement	3
Credit Hours	15
<b>Semester Eight</b>	
CS 49999 CAPSTONE PROJECT (ELR) (WIC)	4
Computer Science (CS) Upper-Division Elective (40000 level)	3
Kent Core Requirement	3
Kent Core Requirement	3
General Electives	2
Credit Hours	15
Minimum Total Credit Hours:	120

## Game Programming Concentration

This roadmap is a recommended semester-by-semester plan of study for this major. However, courses designated as critical (!) must be completed in the semester listed to ensure a timely graduation.

	Credits
<b>Semester One</b>	
! CS 13011 COMPUTER SCIENCE IA: PROCEDURAL & CS 13012 PROGRAMMING or CS 13001 and COMPUTER SCIENCE IB: OBJECT ORIENTED PROGRAMMING or COMPUTER SCIENCE I: PROGRAMMING AND PROBLEM SOLVING	4
MATH 12002 ANALYTIC GEOMETRY AND CALCULUS I (KMCR)	5
UC 10097 DESTINATION KENT STATE: FIRST YEAR EXPERIENCE	1
Kent Core Requirement	3
General Electives	2
Credit Hours	15
<b>Semester Two</b>	
! CS 23001 COMPUTER SCIENCE II: DATA STRUCTURES AND ABSTRACTION	4
! CS 23022 DISCRETE STRUCTURES FOR COMPUTER SCIENCE	3
MATH 12013 BRIEF CALCULUS II	3

MATH 20011 DECISION-MAKING UNDER UNCERTAINTY	3
Kent Core Requirement	3
Credit Hours	16
<b>Semester Three</b>	
! CS 33211 OPERATING SYSTEMS	3
! CS 35101 COMPUTER ORGANIZATION	3
MATH 21002 APPLIED LINEAR ALGEBRA	3
Foreign Language	4
Credit Hours	13
<b>Semester Four</b>	
CS 32301 HUMAN INTERFACE COMPUTING	3
! CS 33007 INTRODUCTION TO DATABASE SYSTEM DESIGN	3
! CS 35201 COMPUTER COMMUNICATION NETWORKS	3
Computer Science (CS) Upper-Division Electives (40000 level)	3
Foreign Language	4
Credit Hours	16
<b>Semester Five</b>	
! CS 33901 SOFTWARE ENGINEERING	3
! CS 46101 DESIGN AND ANALYSIS OF ALGORITHMS	3
! CS 38101 INTRODUCTION TO GAME PROGRAMMING	3
Kent Core Requirement	3
General Electives	2
Credit Hours	14
<b>Semester Six</b>	
! CS 33101 STRUCTURE OF PROGRAMMING LANGUAGES	3
! CS 44001 COMPUTER SCIENCE III-PROGRAMMING PATTERNS	4
! CS 48101 GAME ENGINE CONCEPTS	3
Kent Core Requirement	3
Kent Core Requirement	3
Credit Hours	16
<b>Semester Seven</b>	
! CS 48102 GAME DEVELOPMENT PRACTICUM (ELR) (WIC)	4
! CS 47101 COMPUTER GRAPHICS	3
Computer Science (CS) Upper-Division Elective (40000 level)	3
Kent Core Requirement	3
Kent Core Requirement	3
Credit Hours	16
<b>Semester Eight</b>	
Kent Core Requirement	3
Kent Core Requirement	3
Kent Core Requirement	3
Kent Core Requirement	3
General Electives	2
Credit Hours	14
Minimum Total Credit Hours:	120

## Information Security Concentration

This roadmap is a recommended semester-by-semester plan of study for this major. However, courses designated as critical (!) must be completed in the semester listed to ensure a timely graduation.



<b>Semester One</b>		<b>Credits</b>
!	CS 13011 COMPUTER SCIENCE IA: PROCEDURAL & CS 13012 PROGRAMMING or CS 13001 and COMPUTER SCIENCE IB: OBJECT ORIENTED PROGRAMMING or COMPUTER SCIENCE I: PROGRAMMING AND PROBLEM SOLVING	4
	MATH 12002 ANALYTIC GEOMETRY AND CALCULUS I (KMCR)	5
	UC 10097 DESTINATION KENT STATE: FIRST YEAR EXPERIENCE	1
	Kent Core Requirement	3
	General Electives	2
Credit Hours		15
<b>Semester Two</b>		
!	CS 23001 COMPUTER SCIENCE II: DATA STRUCTURES AND ABSTRACTION	4
!	CS 23022 DISCRETE STRUCTURES FOR COMPUTER SCIENCE	3
	CS 32301 HUMAN INTERFACE COMPUTING	3
	MATH 12013 BRIEF CALCULUS II	3
	MATH 20011 DECISION-MAKING UNDER UNCERTAINTY	3
Credit Hours		16
<b>Semester Three</b>		
!	CS 33211 OPERATING SYSTEMS	3
!	CS 35101 COMPUTER ORGANIZATION	3
	CS 47221 INTRODUCTION TO CRYPTOLOGY	3
	MATH 21002 APPLIED LINEAR ALGEBRA	3
	Foreign Language	4
Credit Hours		16
<b>Semester Four</b>		
!	CS 33007 INTRODUCTION TO DATABASE SYSTEM DESIGN	3
!	CS 35201 COMPUTER COMMUNICATION NETWORKS	3
	CS 43203 SYSTEMS PROGRAMMING	3
	Foreign Language	4
	Kent Core Requirement	3
Credit Hours		16
<b>Semester Five</b>		
!	CS 33901 SOFTWARE ENGINEERING	3
!	CS 46101 DESIGN AND ANALYSIS OF ALGORITHMS	3
!	CS 47205 INFORMATION SECURITY	3
	Kent Core Requirement	3
	General Electives	2
Credit Hours		14
<b>Semester Six</b>		
!	CS 33101 STRUCTURE OF PROGRAMMING LANGUAGES	3
!	CS 44001 COMPUTER SCIENCE III-PROGRAMMING PATTERNS	4
	CS 45203 COMPUTER NETWORK SECURITY	3
	Concentration Elective	3
	Kent Core Requirement	3
Credit Hours		16
<b>Semester Seven</b>		
	CS 49999 CAPSTONE PROJECT (ELR) (WIC)	4
	Kent Core Requirement	3
	Kent Core Requirement	3
	Kent Core Requirement	3
Credit Hours		13

<b>Semester Eight</b>		
	Kent Core Requirement	3
	Kent Core Requirement	3
	Kent Core Requirement	3
	Kent Core Requirement	3
	General Electives	2
Credit Hours		14
Minimum Total Credit Hours:		120

### Robotics and Embedded Systems Concentration

This roadmap is a recommended semester-by-semester plan of study for this major. However, courses designated as critical (!) must be completed in the semester listed to ensure a timely graduation.

<b>Semester One</b>		<b>Credits</b>
!	CS 13011 COMPUTER SCIENCE IA: PROCEDURAL & CS 13012 PROGRAMMING or CS 13001 and COMPUTER SCIENCE IB: OBJECT ORIENTED PROGRAMMING or COMPUTER SCIENCE I: PROGRAMMING AND PROBLEM SOLVING	4
	MATH 12002 ANALYTIC GEOMETRY AND CALCULUS I (KMCR)	5
	UC 10097 DESTINATION KENT STATE: FIRST YEAR EXPERIENCE	1
	Kent Core Requirement	3
	General Electives	2
Credit Hours		15
<b>Semester Two</b>		
!	CS 23001 COMPUTER SCIENCE II: DATA STRUCTURES AND ABSTRACTION	4
!	CS 23022 DISCRETE STRUCTURES FOR COMPUTER SCIENCE	3
	MATH 20011 DECISION-MAKING UNDER UNCERTAINTY	3
	MATH 12013 BRIEF CALCULUS II	3
	Kent Core Requirement	3
Credit Hours		16
<b>Semester Three</b>		
!	CS 33211 OPERATING SYSTEMS	3
!	CS 35101 COMPUTER ORGANIZATION	3
	CS 33301 EMBEDDED SYSTEM PROGRAMMING	3
	MATH 21002 APPLIED LINEAR ALGEBRA	3
	Foreign Language	4
Credit Hours		16
<b>Semester Four</b>		
	CS 23301 ROBOTICS AND EMBEDDED SYSTEMS LABORATORY I	1
	CS 32301 HUMAN INTERFACE COMPUTING	3
!	CS 33007 INTRODUCTION TO DATABASE SYSTEM DESIGN	3
!	CS 35201 COMPUTER COMMUNICATION NETWORKS	3
	Foreign Language	4
Credit Hours		14
<b>Semester Five</b>		
!	CS 33901 SOFTWARE ENGINEERING	3
!	CS 46101 DESIGN AND ANALYSIS OF ALGORITHMS	3
	Concentration Elective	3
	Kent Core Requirement	3
	Kent Core Requirement	3
Credit Hours		15

<b>Semester Six</b>		
CS 23302	ROBOTICS AND EMBEDDED SYSTEMS LABORATORY II	2
! CS 33101	STRUCTURE OF PROGRAMMING LANGUAGES	3
CS 44001	COMPUTER SCIENCE III-PROGRAMMING PATTERNS	4
Kent Core Requirement		3
Kent Core Requirement		3
Credit Hours		15
<b>Semester Seven</b>		
CS 43334	HUMAN-ROBOT INTERACTION	3
or CS 43302	or ALGORITHMIC ROBOTICS	
or CS 43303	or INTERNET OF THINGS	
Concentration Elective		3
Kent Core Requirement		3
Kent Core Requirement		3
Kent Core Requirement		3
Credit Hours		15
<b>Semester Eight</b>		
CS 49999	CAPSTONE PROJECT (ELR) (WIC)	4
Kent Core Requirement		3
Kent Core Requirement		3
General Electives		4
Credit Hours		14
Minimum Total Credit Hours:		120

- GRE scores (Effective Spring 2021, GRE scores will no longer be required)
- Résumé
- Goal statement
- Three letters of recommendation
- English language proficiency - all international students must provide proof of English language proficiency (unless they meet specific exceptions) by earning one of the following:
  - Minimum 525 TOEFL PBT score (paper-based version)
  - Minimum 71 TOEFL IBT score (Internet-based version)
  - Minimum 74 MELAB score
  - Minimum 6.0 IELTS score
  - Minimum 50 PTE score
  - Minimum 100 Duolingo test score

For more information about graduate admissions, please visit the Graduate Studies admission website. For more information on international admission, visit the Office of Global Education's admission website.

<sup>1</sup> Prospective students must successfully have completed high-level algebra, geometry and calculus coursework (equivalent to the following Kent State courses: MATH 12002, MATH 12003, MATH 21001). In addition, it is strongly recommended that students successfully have completed coursework in computer science, including programming, data structures, abstraction, operating systems, combinatorial analysis and discrete structures, (equivalent to the following Kent State courses: CS 13001, CS 23001, CS 23022, CS 33211, CS 35101, CS 46101). Highly qualified students lacking preparation in certain standard areas may be admitted.

#### **Effective Spring 2021**

Prospective students must successfully have completed high-level algebra, geometry and calculus coursework (equivalent to the following Kent State courses: MATH 12002, MATH 12003, MATH 21001). In addition, it is strongly recommended that students successfully have completed coursework in programming, data structures, and discrete structures, (equivalent to the following Kent State courses: CS 13001, CS 23001, CS 23022).

## Computer Science - M.A.

### College of Arts and Sciences

Department of Computer Science

241 Mathematics and Computer Science Building

Kent Campus

330-672-9980

depsec@cs.kent.edu

www.kent.edu/cs

## Description

The Master of Arts degree in Computer Science enables students with a bachelor's degree in any area to enter the many fields that require both computer science skills and skills gained in a student's prior studies. The program requires no prior computer science training and covers a breadth of knowledge in advance computer science topics that can also be used to solve problems in the field of the student's bachelor's degree.

### Fully Offered At:

- Kent Campus

## Admission Requirements

- Bachelor's degree from an accredited college or university for unconditional admission<sup>1</sup>
- Minimum 3.000 undergraduate GPA on a 4.000 point scale for unconditional admission
- Core components of an undergraduate computer science curriculum<sup>1</sup> (Effective Spring 2021, will no longer be required)
- Official transcript(s)

## Program Learning Outcomes

Graduates of this program will be able to:

1. Demonstrate breadth-of-knowledge and understanding of essential facts, concepts, principles and theories relating to advanced topics in computer science.
2. Conduct literature searches, comprehend advanced research materials and uncover connections between related work and critical evaluation and synthesis.
3. Perform research, discovery and integration by applying advanced knowledge of computer science.

## Program Requirements

### Major Requirements

Code	Title	Credit Hours
<b>Major Requirements</b>		
CS 61002	ALGORITHMS AND PROGRAMMING I	4
CS 61003	ALGORITHMS AND PROGRAMMING II	4

CS 61004	OPERATING SYSTEMS AND ARCHITECTURE	4
CS 69098	RESEARCH <sup>1</sup>	3
CS 69191	MASTER'S SEMINAR	2
Computer Science (CS) Electives <sup>2</sup>		15
Minimum Total Credit Hours:		32

<sup>1</sup> Students enroll in CS 69098 under the direction of a graduate faculty member and develop a master's project. A master's project committee must be formed that includes the advisor and at least two other graduate faculty members. The committee and project topic must be approved by the graduate coordinator. The student must present and defend the project before the committee.

<sup>2</sup> Maximum 12 credit hours of courses at the 50000 level may be applied toward the degree. Maximum 6 credit hours of 60000 level project-related course work outside computer science -that are approved by the student's advisor and may count towards the degree.

## Computer Science - M.S.

### College of Arts and Sciences

Department of Computer Science

241 Mathematics and Computer Science Building

Kent Campus

330-672-9980

depsec@cs.kent.edu

www.kent.edu/cs

## Description

The Master of Science degree in Computer Science provides students with an educational and research environment to develop career paths through necessary training with emerging technologies. Graduates have the technical knowledge and skills necessary for success within the information and high technology industries.

The M.S. degree in Computer Science has two culminating options: thesis or non-thesis. Students planning to pursue a Ph.D. degree an/or academic research should select the thesis option. Students planning to pursue applied research and development in industry may select the non-thesis option. The thesis option requires original research and a written thesis. The non-thesis option requires a capstone project and an optional industrial internship.

The Computer Science major includes the following optional concentrations:

- The **Computational Data Science** concentration prepares students to process big data. In a spectrum of real-world applications, the collected data (from such sources as mobile devices, GPS, sensor/RFID networks, Internet, social media, etc.) is so large and complex, the traditional data processing tools cannot efficiently and effectively handle it. This concentration focuses on algorithms development, machine learning, computation techniques, network and computing infrastructure and software.
- The **Computer Engineering** concentration prepares students to meet the need of computer engineering professionals in the industry for designing and managing emerging smart devices and computer-integrated physical systems with programmable intelligence. Students learn the hardware-software co-design principles and theory, architecture of the associated software and hardware, devices and

sensors communication protocols and the interfaces to effectively design, build and evolve such smart devices and computer-driven intelligent physical systems.

- The **Computer Security** concentration exposes students to a wide range of topics on the security of computer systems. Students study the vulnerabilities in software and networks and develop algorithms and software to protect data, using digital encryption coding, protected databases and protected computer networking techniques.

Students opting to not pursue a concentration will create a 12-credit hour individualized plan of study with their advisor.

### Fully Offered At:

- Kent Campus

## Admission Requirements

- Bachelor's degree from an accredited college or university for unconditional admission
- Minimum 3.000 undergraduate GPA on a 4.000 point scale for unconditional admission
- Core components of an undergraduate computer science curriculum<sup>1</sup>
- Official transcript(s)
- GRE scores
- Résumé
- Goal statement
- Three letters of recommendation
- English language proficiency - all international students must provide proof of English language proficiency (unless they meet specific exceptions) by earning one of the following:
  - Minimum 525 TOEFL PBT score (paper-based version)
  - Minimum 71 TOEFL IBT score (Internet-based version)
  - Minimum 74 MELAB score
  - Minimum 6.0 IELTS score
  - Minimum 50 PTE score
  - Minimum 100 Duolingo English Test score

For more information about graduate admissions, please visit the Graduate Studies admission website. For more information on international admission, visit the Office of Global Education's admission website.

<sup>1</sup> Prospective students must successfully have completed high-level algebra, geometry and calculus coursework (equivalent to the following Kent State courses: MATH 12002, MATH 12003, and MATH 21001). In addition, it is strongly recommended that students successfully have completed coursework in computer science, including programming, data structures, abstraction, operating systems, combinatorial analysis and discrete structures, (equivalent to the following Kent State courses: CS 13001, CS 23001, CS 23022, CS 33211, CS 35101, and CS 46101). Highly qualified students lacking preparation in certain standards areas may be admitted.

## Program Learning Outcomes

Graduates of this program will be able to:

1. Demonstrate breadth-of-knowledge and understanding of essential facts, concepts, principles and theories relating to advanced topics in computer science.
2. Conduct literature searches, comprehend advanced research materials and uncover connections between related work and critical evaluation and synthesis.
3. Perform research, discovery and integration by applying advanced knowledge of computer science.

## Program Requirements

### Major Requirements

Code	Title	Credit Hours
<b>Major Requirements</b>		
CS 69191	MASTER'S SEMINAR	2
Core Courses, choose one course each from four out of the five categories: <sup>1</sup>		12
<i>Computational Data Science Category</i>		
See courses under Computational Data Science concentration		
<i>Computer Engineering Category</i>		
See courses under Computer Engineering concentration		
<i>Computer Security Category</i>		
See courses under Computer Security concentration		
<i>Software and Application Category</i>		
CS 57201	HUMAN COMPUTER INTERACTION	
CS 63005	ADVANCED DATABASE SYSTEMS DESIGN	
CS 63100	COMPUTATIONAL HEALTH INFORMATICS	
CS 63901	SOFTWARE ENGINEERING METHODOLOGIES	
CS 63902	SOFTWARE EVOLUTION	
CS 64401	IMAGE PROCESSING	
CS 64402	MULTIMEDIA SYSTEMS AND BIOMETRICS	
CS 67101	ADVANCED COMPUTER GRAPHICS	
CS 67301	SCIENTIFIC VISUALIZATION	
CS 67302	INFORMATION VISUALIZATION	
<i>Theory and Algorithms Category</i>		
CS 63301	PARALLEL AND DISTRIBUTED COMPUTING	
CS 64201	ADVANCED ARTIFICIAL INTELLIGENCE	
CS 64301	PATTERN RECOGNITION PRINCIPLES	
CS 66101	ADVANCED TOPICS IN ALGORITHMS	
CS 66105	PARALLEL AND DISTRIBUTED ALGORITHMS	
CS 66110	COMPUTATIONAL GEOMETRY	
Culminating Requirement, choose from the following:		6
CS 69099	CAPSTONE PROJECT (taken twice)	
CS 69099 & CS 69192	CAPSTONE PROJECT and GRADUATE INTERNSHIP <sup>2</sup>	
CS 69199	THESIS I <sup>3</sup>	
<b>Additional Requirements or Concentrations</b>		
Choose from the following:		12
Additional Requirements for Students Not Declaring a Concentration		
Computational Data Science Concentration		
Computer Engineering Concentration		
Computer Security Concentration		
Minimum Total Credit Hours:		32

### Additional Requirements for Students Not Declaring a Concentration

Code	Title	Credit Hours
<b>Major Requirements</b>		
Computer Science (CS) Electives		12
Minimum Total Credit Hours:		12

### Computational Data Science Concentration Requirements

Code	Title	Credit Hours
<b>Concentration Requirements</b>		
Concentration Electives, choose from the following:		12
CS 54001	COMPUTER SCIENCE III - PROGRAMMING PATTERNS	
CS 54201	ARTIFICIAL INTELLIGENCE	
CS 54202	MACHINE LEARNING AND DEEP LEARNING	
CS 63005	ADVANCED DATABASE SYSTEMS DESIGN	
CS 63015	DATA MINING TECHNIQUES	
CS 63016	BIG DATA ANALYTICS	
CS 63017	BIG DATA MANAGEMENT	
CS 63018	PROBABILISTIC DATA MANAGEMENT	
Minimum Total Credit Hours:		12

### Computer Engineering Concentration Requirements

Code	Title	Credit Hours
<b>Concentration Requirements</b>		
Concentration Electives, choose from the following:		12
CS 53301	SOFTWARE DEVELOPMENT FOR ROBOTICS	
CS 53302	ALGORITHMIC ROBOTICS	
CS 53303	INTERNET OF THINGS	
CS 53305	ADVANCED DIGITAL DESIGN	
CS 53334	HUMAN-ROBOT INTERACTION	
CS 63201	ADVANCED OPERATING SYSTEMS	
CS 63304	CLUSTER COMPUTING	
CS 63305	MULTICORE COMPUTING	
CS 63306	EMBEDDED COMPUTING	
CS 65101	ADVANCED COMPUTER ARCHITECTURE	
CS 65202	ADVANCED COMMUNICATION NETWORKS	
CS 65203	WIRELESS AND MOBILE COMMUNICATION NETWORKS	
CS 65301	SYSTEM MODELING AND PERFORMANCE EVALUATION	
Minimum Total Credit Hours:		12

### Computer Security Concentration Requirements

Code	Title	Credit Hours
<b>Concentration Requirements</b>		
Concentration Electives, choose from the following:		12
CS 53202	SYSTEMS ADMINISTRATION	
CS 53203	SYSTEMS PROGRAMMING	
CS 55203	COMPUTER NETWORK SECURITY	
CS 57205	INFORMATION SECURITY	
CS 57206	DATA SECURITY AND PRIVACY	

CS 57207	DIGITAL FORENSICS
CS 57221	INTRODUCTION TO CRYPTOLOGY

Minimum Total Credit Hours: 12

- <sup>1</sup> Courses taken for the core cannot be counted again as an elective or concentration course. The list of courses offered each semester, including department-approved special topics, is available in the department's graduate office.
- <sup>2</sup> Students may complete a capstone-related elective course in place of an internship with approval from the graduate coordinator.
- <sup>3</sup> Students selecting the thesis option must form a master's thesis committee, which will include the advisor and at least two other graduate faculty members. The thesis topic and committee must be approved by the advisor and graduate coordinator. The final version of the thesis must be approved by the advisor, thesis committee and graduate coordinator.

## Graduation Requirements

- Maximum 12 credit hours of 50000-level courses may be applied toward the degree.

## Computer Science - Minor

### College of Arts and Sciences

Department of Computer Science  
241 Mathematics and Computer Science Building  
Kent Campus  
330-672-9980  
depsec@cs.kent.edu  
www.kent.edu/cs

## Description

The Computer Science minor provides a foundation in computer science, which may be invaluable to students in any field, from the natural and social sciences to humanities and business, allowing them to work with substantial computing and cyber systems. The minor has been designed so that students from any discipline can complement their major, ensuring they will be able to competitively manage the computing and cyber aspects of their professions.

### Fully Offered At:

- Kent Campus
- Stark Campus

## Admission Requirements

Admission to a minor is open to students declared in a bachelor's degree, the A.A.B. or A.A.S. degree or the A.T.S. degree (not Individualized Program major). Students declared only in the A.A. or A.S. degree or the A.T.S. degree in Individualized Program may not declare a minor. Students may not pursue a minor and a major in the same discipline.

## Minor Requirements

Code	Title	Credit Hours
<b>Minor Prerequisites</b>		
MATH 11010	ALGEBRA FOR CALCULUS (KMCR)	
<b>Minor Requirements</b>		
CS 13011 & CS 13012	COMPUTER SCIENCE IA: PROCEDURAL PROGRAMMING and COMPUTER SCIENCE IB: OBJECT ORIENTED PROGRAMMING	4
or CS 13001	COMPUTER SCIENCE I: PROGRAMMING AND PROBLEM SOLVING	
CS 23001	COMPUTER SCIENCE II: DATA STRUCTURES AND ABSTRACTION	4
CS 23022	DISCRETE STRUCTURES FOR COMPUTER SCIENCE	3
Upper-Division Electives (30000 or 40000 level) <sup>1</sup>		9
Minimum Total Credit Hours:		20

- <sup>1</sup> Maximum 3 credit hours of CS 33192 may fulfill the elective requirement. These courses can be aligned with the student's professional interests.

## Graduation Requirements

Minimum Minor GPA	Minimum Overall GPA
2.000	2.000

- Students must complete at least two upper-division (30000 or 40000 level) courses in the minor at Kent State on a graded basis (A-F).
- Minimum 6 credit hours in the minor must be upper-division coursework (30000 and 40000 level).
- Minimum 6 credit hours in the minor must be outside of the course requirements for any major or other minor the student is pursuing.
- Minimum 50 percent of the total credit hours for the minor must be taken at Kent State (in residence).

## Computer Science - Ph.D.

### College of Arts and Sciences

Department of Computer Science  
241 Mathematics and Computer Science Building  
Kent Campus  
330-672-9980  
depsec@cs.kent.edu  
www.kent.edu/cs

## Description

The Ph.D. degree in Computer Science provides students with an educational and research environment that fosters personal and intellectual growth, flourishes academic goals and develops career paths through necessary training with emerging technologies. The program promotes research, discovery and integration, and is designed for students interested in becoming professional scholars, college and university professors or researchers in private, industrial or government research institutions.



## Fully Offered At:

- Kent Campus

## Admission Requirements

- Bachelor's degree in computer science (or closely related field) from an accredited college or university for unconditional admission<sup>1</sup>
- Minimum 3.000 GPA on a 4.000 point scale for unconditional admission
- Official transcript(s)
- GRE scores
- Résumé
- Goal statement
- Three letters of recommendation
- English language proficiency - all international students must provide proof of English language proficiency (unless they meet specific exceptions) by earning one of the following:
  - Minimum 525 TOEFL PBT score (paper-based version)
  - Minimum 71 TOEFL IBT score (Internet-based version)
  - Minimum 74 MELAB score
  - Minimum 6.0 IELTS score
  - Minimum 50 PTE score
  - Minimum 100 Duolingo English Test score

For more information about graduate admissions, please visit the Graduate Studies admission website. For more information on international admission, visit the Office of Global Education's admission website.

## Program Learning Outcomes

Graduates of this program will be able to:

1. Have all around breadth-of-knowledge and understanding of essential facts, concepts, principles and theories relating to advanced topics in computer science to be regarded as a scholar of computer science.
2. Demonstrate depth of knowledge at least in one specialized topic.
3. Conduct independent research by advancing the body of knowledge in the area through the doctoral dissertation research.
4. Clearly articulate advanced research problems and their solutions.
5. Present general computer science topics in a learning environment.
6. Develop and write publishable papers that clearly articulate advanced research problems and their solutions.
7. Demonstrate integrative and deep knowledge of essential literature, facts, concepts, principles and theories relating to a chosen area of research.
8. Perform complete and thorough literature searches.
9. Evaluate, comprehensively and critically, the extent to which a particular work relates to and/or contributes to a given field.
10. Publish and participate in a chosen research community.

## Graduation Requirements

### Proficiency Requirements and Candidacy

Students must clear core area proficiency requirements. Students admitted after completing a master's of computer science degree must take the Prelims examination within the first two semesters. Other

students, including directly-admitted Ph.D. students, must take the Prelims examination within the first three semesters

The candidacy examination is a comprehensive examination in the field of the major subject. The format of the candidacy examination will be determined by the student's Candidacy Examination Committee, which is composed of the student's advisor and two other graduate faculty members. The Candidacy Examination Committee must be approved by the graduate coordinator. The student must complete the candidacy examination at least one year before the dissertation defense.

## Program Requirements

### Major Requirements

Code	Title	Credit Hours
<b>Major Requirements</b>		
Computer Science Electives (CS 70000 level) <sup>1</sup>		27-57
CS 89191	DOCTORAL SEMINAR <sup>2</sup>	3
CS 89199	DISSERTATION I <sup>3</sup>	30
<b>Minimum Total Credit Hours for Post-Baccalaureate Students</b>		<b>90</b>
<b>Minimum Total Credit Hours for Post-Master's Students</b>		<b>60</b>

<sup>1</sup> Maximum 9 credit hours of CS 89098 or CS 89991 may be applied towards the degree.

<sup>2</sup> Students must make a public presentation of project and/or research work (excluding dissertation defense and candidacy examination) at least two times before graduation. The presentation must take place in the doctoral seminar at least one full term before graduation and not more than two years after entering the program. The doctoral seminar is offered for 1 or 2 credit hours; therefore, the student must enroll in this course at least two times. This course can be taken multiple times but only 3 credit hours count toward the degree.

<sup>3</sup> Each doctoral candidate, upon admission to candidacy, must register for CS 89199 for a total of 30 credit hours. It is expected that a doctoral candidate will continuously register for Dissertation I, and thereafter CS 89299, each semester, until all requirements for the degree have been met. A dissertation describes original research performed by the student. The dissertation topic must be approved by the advisor and graduate coordinator. A dissertation committee, made up of graduate faculty, must be formed to assess the quality and value of the work. A public dissertation defense is made by the student. The final dissertation and defense must be approved by the advisor and dissertation committee.

### Proficiency Requirements and CANDIDACY

Students must clear core area proficiency requirements. Students admitted after completing a master's of computer science degree must take the Prelims examination within the first two semesters. Other students, including directly-admitted Ph.D. students, must take the Prelims examination within the first three semesters

The candidacy examination is a comprehensive examination in the field of the major subject. The format of the candidacy examination will be determined by the student's Candidacy Examination Committee, which is composed of the student's advisor and two other graduate faculty members. The Candidacy Examination Committee must be approved by the graduate coordinator. The student must complete the candidacy examination at least one year before the dissertation defense.

## Department of English

### College of Arts and Sciences

Department of English

113 Satterfield Hall

Kent Campus

330-672-2676

english@kent.edu

www.kent.edu/english

## Undergraduate Programs

- English - B.A.
- Teaching English as a Second Language - B.A.

## Minors

- Creative Writing
- English
- Professional and Technical Writing

## Graduate Programs

- Creative Writing - M.F.A.
- English - M.A.
- English - Ph.D.
- English-Rhetoric and Composition - Ph.D.
- Teaching English as Second Language - M.A.

## Certificates

### Undergraduate Certificates

- Teaching English as a Foreign Language

### Graduate Certificates

- Teaching English as a Second/Foreign Language

## Special Programs (non-degree)

### Undergraduate Certificates

- Teaching English as a Second Language Endorsement Preparation - undergraduate

### Graduate Certificates

- Teaching English as a Second Language Endorsement Preparation - graduate

## Department of English Faculty

- Abuzeid, Ayham (2007), Associate Lecturer, B.A., Kent State University, 2008
- Baker, Charles R. (2002), Associate Professor, Ph.D., Indiana University of Pennsylvania, 1997
- Baker, Alexis M. (2017), Assistant Professor, Ph.D., Kent State University, Stark Campus, 2016
- Bice, Deborah M. (1997), Associate Professor, Ph.D., Case Western Reserve University, 1995
- Bowers, Abigail L. (2011), Associate Professor, Ph.D., Texas A&M University, Main Campus, 1997

- Bowles, Noelle K. (2001), Associate Professor, Ph.D., University of Miami, 1996
- Bracher, Mark F. (1985), Professor, Ph.D., Vanderbilt University, 1981
- Brodsky, Adam H. (2008), Associate Lecturer, M.A., Kent State University, 2011
- Byrne, Peter M. (2008), Associate Professor, Ph.D., University of California, Irvine, 2004
- Camden, Vera J. (1984), Professor, Ph.D., University of Virginia, Main Campus, 1986
- Canacci, James E. (1995), Associate Lecturer, M.A., Youngstown State University, 1995
- Christen-Syed, Shannon L. (2010), Lecturer, M.A., Kent State University, 2004
- Chu, Alan (2016), Assistant Professor, Ph.D., University of Arizona, 2017
- Ciuba, Gary M. (1986), Professor, Ph.D., Fordham University, 1986
- Clewell, Tammy (2000), Professor, Ph.D., Florida State University, 2000
- Conrad, Jessica (2019), Lecturer, Ph.D., University of Delaware, 2019
- Cunningham, Jennifer M. (2009), Associate Professor, Ph.D., Kent State University, 2012
- Dallacheisa, Tony G. (2008), Lecturer
- Daniels, Martha E. (2010), Lecturer, Ed.D., Walden University, 2008
- Dauterich, Edward (1997), Professor, Ph.D., Kent State University, 2006
- Davis Patterson, Kathy S. (2000), Associate Professor, Ph.D., The Ohio State University, 1999
- Devore, Elizabeth E. (2010), Associate Lecturer, M.A., New Mexico Highlands University, 2009
- Dugas, Don-John (2005), Professor, Ph.D., Penn State University, 1999
- Dunmire, Patricia L. (1995), Professor, Ph.D., Carnegie Mellon University, 1995
- Elder, Dolores M. (2009), Lecturer, M.A., Kent State University, 2010
- Ellis, Marnie K. (2003), Associate Lecturer, M.F.A., Bowling Green State University, 1999
- Erritouni, Ali (2005), Associate Professor, Ph.D., University of Miami, 2004
- Fein, Susanna G. (1985), Professor, Ph.D., Harvard College, 1985
- Floyd, Kevin R. (1998), Professor, University of Iowa, 1998
- George, Barbara E. (2011), Assistant Professor, Ph.D., Kent State University, 2018
- Hakutani, Yoshinobu (1968), Professor, Ph.D., Pennsylvania State University, 1965
- Hamrick, Phillip M. (2013), Associate Professor, Ph.D., Georgetown University, 2013
- Harrington, Kristine (2016), Lecturer
- Harrison, Denise A. (2005), Associate Lecturer, M.A., Miami University, 2001
- Hayes, Amanda (2016), Assistant Professor
- Hediger, Ryan R. (2011), Associate Professor, Ph.D., University of Oregon, 2005
- Hendrickx, Jessy A. (2015), Lecturer, M.A., Kent State University, 2002
- Howard, Elizabeth A. (2000), Professor, B.A., Kent State University, 1987
- Huot, Brian A. (2004), Professor, Ph.D., Indiana University of Pennsylvania, 1988
- Jones, Jessica M. (2016), Lecturer, University Of Montana, 2014

- King, Robert J. (1998), Associate Professor, M.F.A., Indiana University-Bloomington, 1998
- Krishnan, Uma S. (2001), Professor, Ph.D., Kent State University, 2014
- Lieske, Pamela J. (1997), Professor, Ph.D., University of Massachusetts, Amherst, 1996
- Lloyd, Keith S. (2002), Professor, Ph.D., University of Louisville, 1996
- Lyons, Janet L. (2010), Associate Lecturer, M.A., Kent State University, 2011
- Lyons, Jo-Leigh (1991), Senior Lecturer, M.A., Kent State University, 1996
- M'Baye, Babacar (2006), Professor, Ph.D., Bowling Green State University, 2002
- MacLure, Jennifer (2017), Assistant Professor, Ph.D., University of Wisconsin, Madison, 2017
- Martinez, Ann M. (2014), Assistant Professor, Ph.D., University of Kansas, 2014
- Mechenbier, Mahli X. (1996), Senior Lecturer, J.D., University of Akron, 2002
- Metz, John (2010), Senior Lecturer, M.A., University of Toledo, 1985
- Miller, Ryan T. (2014), Associate Professor, Ph.D., Carnegie Mellon University, 2013
- Mokros, Molly M. (2009), Lecturer
- Moneysmith, Jayne A. (1996), Associate Professor
- Myers, Joshua R. (2019), Lecturer
- Neaderhiser, Stephen E. (2009), Assistant Professor, M.A., University of Kansas, 2004
- Neiderman, Beverly A. (1990), Senior Lecturer, M.A., Bowling Green State University, 1980
- Nestor, Sarah M. (2017), Assistant Professor, Ph.D., Marquette University, 2012
- Orr, Katherine M. (1990), Professor, Ph.D., Kent State University, 2010
- Pate, Corey M. (2007), Lecturer, M.Ed., Kent State University, 2005
- Patterson, G. R. (2018), Assistant Professor
- Piccirillo-Smith, Linda A. (1983), Senior Lecturer, M.A., Kent State University, 1980
- Prescott, Renate W. (1993), Associate Professor, Ph.D., Bowling Green State University, 1990
- Raabe, Wesley (2008), Associate Professor, Ph.D., University of Virginia, Main Campus, 2006
- Remley, Dirk R. (1990), Professor, Ph.D., Kent State University, 2010
- Rilling, Sarah E. (2002), Professor, Ph.D., Northern Arizona University, 1998
- Robinson, Carol L. (2000), Associate Professor, Ph.D., University of Georgia, 1994
- Roman, Christopher M. (1997), Professor, Ph.D., University of Alabama, 2004
- Rooks, Mary A. (2005), Assistant Professor, Ph.D., University of Mexico, 2004
- Rozner, Debbie L. (2010), Senior Lecturer, M.Ed., George Washington University, 2004
- Sainato, Susan M. (1987), Professor, Ph.D., Kent State University, 2002
- Sanders, Michael T. (1995), Associate Professor, Ph.D., Kent State University, 2006
- Schauffler, Charlene M. (1991), Senior Lecturer, M.A., Kent State University, 1994
- Shaker, Bonnie J. (2013), Assistant Professor, Ph.D., Case Western Reserve University, 1998
- Shank, Matthew A. (1983), Senior Lecturer, M.A., University of Akron, 1982
- Simpson, Barry H. (2009), Lecturer, M.Ed., Cleveland State University, 2001
- Sloan, Jay D. (2000), Associate Professor, Ph.D., Marquette University, 1999
- Smith, Jeanne R. (1998), Associate Lecturer, M.A., State University of New York, Binghamton, 1986
- Stewart, Matthew R. (1998), Associate Lecturer, M.A., Kent State University, 1980
- Sturr, Robert D. (1997), Associate Professor, Ph.D., University of Southern California, 1998
- Takayoshi, Pamela D. (2004), Professor, Ph.D., Indiana University, Purdue University Indianapolis, 1995
- Trogdon, Robert W. (1997), Professor & Department Chair, Ph.D., University of South Carolina-Columbia, 1996
- Uhrig, Mindy D. (2006), Associate Lecturer, M.A., University of Indiana, Bloomington, 1994
- Van Ittersum, Derek (2008), Associate Professor, M.A., Kent State University, 2003
- Vogel, Lauren A. (2001), Associate Lecturer, M.A., Kent State University, 2005
- Wetzl, Ana M. (2007), Associate Professor
- Willey, Nicole L. (1997), Professor, Ph.D., University of Alabama, 2003
- Winebrenner, Kimberly C. (1982), Professor, Ph.D., Kent State University, 1991
- Wing, Catherine (2010), Associate Professor, M.F.A., University of Washington, 2004
- Winkler, Kyle M. (2018), Assistant Professor, Ph.D., University of Pittsburgh, 2018
- Winter, James P. (2008), Associate Professor, M.F.A., Kent State University, 2012
- Wollenzier, Michele M. (2005), Associate Lecturer, M.A.T., Kent State University, 2003
- Yoder, Kimberly A. (1988), Senior Lecturer, M.A., Kent State University, 1995

## English (ENG)

### ENG 01001 INTRODUCTION TO COLLEGE WRITING-STRETCH 3

#### Credit Hours

Introduces the instruction and experiences necessary for students to acquire college-level literacy, with an emphasis on reading and writing college level texts. Course does not count toward graduation.

**Prerequisite:** ACT English score of 0-17; or SAT Evidence Based Reading and Writing score of 200-470; or WritePlacer score of 0-3; or Accuplacer Reading Comprehension score of 0-79 and WritePlacer score of 4.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ENG 02001 ESL WRITING LEVEL I 2 Credit Hours**

Introduction to the writing process. Review of basic syntactic and morphological patterns and sentence and paragraph organization. Support of vocabulary development. Students are placed in appropriate course based on test score. Course does not count toward graduation.  
**Prerequisite:** None (placement and registration done by the department).  
**Schedule Type:** Lecture  
**Contact Hours:** 2.33 lecture  
**Grade Mode:** Standard Letter

**ENG 02002 ESL WRITING LEVEL II 2 Credit Hours**

Introduction to basic knowledge of sentence structure and development of ability to write with more sentence variety. Practice of standard paragraph format. Course does not count toward graduation.  
**Prerequisite:** None (placement and registration done by the department).  
**Schedule Type:** Lecture  
**Contact Hours:** 2.33 lecture  
**Grade Mode:** Standard Letter

**ENG 02003 ESL WRITING LEVEL III 2 Credit Hours**

Review and practice of writing narrative and descriptive paragraphs. Analysis and self-correction; support of vocabulary expansion and practice of syntax of statements in paragraphs through relevant topics. Course does not count toward graduation.  
**Prerequisite:** None (placement and registration done by the department).  
**Schedule Type:** Lecture  
**Contact Hours:** 2.33 lecture  
**Grade Mode:** Standard Letter

**ENG 02004 ESL WRITING LEVEL IV 2 Credit Hours**

Development of narrative, descriptive and explanatory paragraphs into essays; practice of prewriting activities. Support of vocabulary expansion and focus on transitioning from simple to complex sentences in paragraphs. Course does not count toward graduation.  
**Prerequisite:** None (placement and registration done by the department).  
**Schedule Type:** Lecture  
**Contact Hours:** 2.33 lecture  
**Grade Mode:** Standard Letter

**ENG 02005 ESL WRITING LEVEL V 2 Credit Hours**

Introduction to the purpose, format and structure of an essay. Practice of narrative and explanatory essays. Course does not count toward graduation.  
**Prerequisite:** None (placement and registration done by the department).  
**Schedule Type:** Lecture  
**Contact Hours:** 2.33 lecture  
**Grade Mode:** Standard Letter

**ENG 02006 ESL WRITING LEVEL VI 2 Credit Hours**

Review and practice of the purpose, format and structure of an essay. Focus on response essays; practice of parallel constructions, quotations, and the use of outside sources. Course does not count toward graduation.  
**Prerequisite:** None (placement and registration done by the department).  
**Schedule Type:** Lecture  
**Contact Hours:** 2.33 lecture  
**Grade Mode:** Standard Letter

**ENG 02007 ESL WRITING LEVEL VII 2 Credit Hours**

Review of formatting and structuring essays. Practice of explanatory essays; focus on outlining, summarizing and citations; review of selected text-type specific grammatical features. Course does not count toward graduation.  
**Prerequisite:** None (placement and registration done by the department).  
**Schedule Type:** Lecture  
**Contact Hours:** 2.33 lecture  
**Grade Mode:** Standard Letter

**ENG 02101 ESL READING LEVEL I 2 Credit Hours**

Introduction to basic reading strategies such as recognizing and differentiating between main and supporting ideas; skimming and scanning and making inferences. Support of vocabulary development. Students will be placed in the appropriate course based on test score. Course does not count toward graduation.  
**Prerequisite:** None (placement and registration done by the department).  
**Schedule Type:** Lecture  
**Contact Hours:** 2.33 lecture  
**Grade Mode:** Standard Letter

**ENG 02102 ESL READING LEVEL II 2 Credit Hours**

Practice in basic reading strategies and development. Support of vocabulary development. Course does not count toward graduation.  
**Prerequisite:** None (placement and registration done by the department).  
**Schedule Type:** Lecture  
**Contact Hours:** 2.33 lecture  
**Grade Mode:** Standard Letter

**ENG 02103 ESL READING LEVEL III 2 Credit Hours**

Practice in reading strategies such as recognizing and differentiating between main and supporting ideas of paragraphs and entire texts; skimming and scanning and making inferences. Support of vocabulary development. Course does not count toward graduation.  
**Prerequisite:** None (placement and registration done by the department).  
**Schedule Type:** Lecture  
**Contact Hours:** 2.33 lecture  
**Grade Mode:** Standard Letter

**ENG 02104 ESL READING LEVEL IV 2 Credit Hours**

Practice of reading and summarizing strategies; skimming and scanning texts; support of vocabulary development. Course does not count toward graduation.  
**Prerequisite:** None (placement and registration done by the department).  
**Schedule Type:** Lecture  
**Contact Hours:** 2.33 lecture  
**Grade Mode:** Standard Letter

**ENG 02105 ESL READING LEVEL V 2 Credit Hours**

Practice of reading strategies; skimming and scanning; focus on inferences from background information and culturally specific references. Support of vocabulary development. Course does not count toward graduation.  
**Prerequisite:** None (placement and registration done by the department).  
**Schedule Type:** Lecture  
**Contact Hours:** 2.33 lecture  
**Grade Mode:** Standard Letter

**ENG 02106 ESL READING LEVEL VI 2 Credit Hours**

Practice of reading strategies; skimming and scanning texts; inferences in non-explicit contexts using background information. Culturally specific references and cultural schemata. Support of vocabulary development; strengthening awareness of word-formation. Course does not count toward graduation.

**Prerequisite:** None (placement and registration done by the department).

**Schedule Type:** Lecture

**Contact Hours:** 2.33 lecture

**Grade Mode:** Standard Letter

**ENG 02107 ESL READING LEVEL VII 2 Credit Hours**

Practice identifying communicative functions of texts; reading strategies such as recognizing and differentiating between main and supporting ideas; skimming and scanning. Support of vocabulary development. Course does not count toward graduation.

**Prerequisite:** None (placement and registration done by the department).

**Schedule Type:** Lecture

**Contact Hours:** 2.33 lecture

**Grade Mode:** Standard Letter

**ENG 02201 ESL LISTENING LEVEL I 2 Credit Hours**

Practice in basic listening strategies, including listening for detail and gist, key words, names, formal and informal forms of address, greetings and conversation endings, acceptance and refusals, etc. Students are placed in the appropriate course based on test scores. Course does not count toward graduation.

**Prerequisite:** None (placement and registration done by the department).

**Schedule Type:** Lecture

**Contact Hours:** 2.33 lecture

**Grade Mode:** Standard Letter

**ENG 02202 ESL LISTENING LEVEL II 2 Credit Hours**

Practice in basic listening strategies, including listening for detail and gist, key words, locations, numbers, acceptances and refusals, opinions, etc. as appropriate to level. Course does not count toward graduation.

**Prerequisite:** None (placement and registration done by the department).

**Schedule Type:** Lecture

**Contact Hours:** 2.33 lecture

**Grade Mode:** Standard Letter

**ENG 02203 ESL LISTENING LEVEL III 2 Credit Hours**

Practice in listening strategies through predicting, using background knowledge and contextual information in order to listen for detail and gist, key words, connecting themes; comparing and summarizing as well as note-taking as appropriate to level. Course does not count toward graduation.

**Prerequisite:** None (placement and registration done by the department).

**Schedule Type:** Lecture

**Contact Hours:** 2.33 lecture

**Grade Mode:** Standard Letter

**ENG 02204 ESL LISTENING LEVEL IV 2 Credit Hours**

Practice in listening strategies through predicting, using background knowledge and contextual information in order to listen for detail and gist, key words, emphasis, stance and speaker's feelings; comparing and summarizing as well as note-taking as appropriate to level. Course does not count toward graduation.

**Prerequisite:** None (placement and registration done by the department).

**Schedule Type:** Lecture

**Contact Hours:** 2.33 lecture

**Grade Mode:** Standard Letter

**ENG 02205 ESL LISTENING LEVEL V 2 Credit Hours**

Practice in listening strategies through predicting, using background knowledge and contextual information in order to listen for detail and gist, key words; comparing and summarizing as well as note-taking as appropriate to level. Course does not count toward graduation.

**Prerequisite:** None (placement and registration done by the department).

**Schedule Type:** Lecture

**Contact Hours:** 2.33 lecture

**Grade Mode:** Standard Letter

**ENG 02206 ESL LISTENING LEVEL VI 2 Credit Hours**

Practice in listening strategies through predicting, using background knowledge and contextual information; focus on detail and gist, key words, and meanings from stress, rhythm and intonation. Includes colloquial English. Course does not count toward graduation.

**Prerequisite:** None (placement and registration done by the department).

**Schedule Type:** Lecture

**Contact Hours:** 2.33 lecture

**Grade Mode:** Standard Letter

**ENG 02207 ESL LISTENING LEVEL VII 2 Credit Hours**

Practice in listening strategies through predicting, using background knowledge and contextual information; focus on detail and gist, key words, stance and speaker's feelings; comparing and summarizing as well as note-taking as appropriate to level. Course does not count toward graduation.

**Prerequisite:** None (placement and registration done by the department).

**Schedule Type:** Lecture

**Contact Hours:** 2.33 lecture

**Grade Mode:** Standard Letter

**ENG 02301 ESL SPEAKING LEVEL I 1 Credit Hour**

Development of basic speaking skills while processing verbal and nonverbal information in both formal and informal contexts. Focus on fluency building using simple sentences. Support of vocabulary building when receiving and producing oral messages. Students are enrolled in the appropriate course based on test score. Course does not count toward graduation.

**Prerequisite:** None (placement and registration done by the department).

**Schedule Type:** Lecture

**Contact Hours:** 1.4 lecture

**Grade Mode:** Standard Letter

**ENG 02302 ESL SPEAKING LEVEL II 1 Credit Hour**

Practice of basic speaking skills while processing verbal and nonverbal information in both formal and informal contexts. Focus on fluency building using simple sentences. Support of vocabulary building when receiving and producing oral messages as appropriate to level. Course does not count toward graduation.

**Prerequisite:** None (placement and registration done by the department).

**Schedule Type:** Lecture

**Contact Hours:** 1.4 lecture

**Grade Mode:** Standard Letter

**ENG 02303 ESL SPEAKING LEVEL III 1 Credit Hour**

Practices basic speaking skills while processing verbal and nonverbal information in both formal and informal contexts. Focus on fluency building using more complex sentences. Support of vocabulary building when receiving and producing oral messages as appropriate to level. Course does not count toward graduation.

**Prerequisite:** None (placement and registration done by the department).

**Schedule Type:** Lecture

**Contact Hours:** 1.4 lecture

**Grade Mode:** Standard Letter



**ENG 02304 ESL SPEAKING LEVEL IV 1 Credit Hour**

Practice of speaking skills while processing verbal and nonverbal information in both formal and informal contexts. Focus on fluency building using more complex sentences. Support of vocabulary building when receiving and producing oral messages as appropriate to level. Course does not count toward graduation.

**Prerequisite:** None (placement and registration done by the department).

**Schedule Type:** Lecture

**Contact Hours:** 1.4 lecture

**Grade Mode:** Standard Letter

**ENG 02305 ESL SPEAKING LEVEL V 1 Credit Hour**

Practice of speaking skills while processing verbal and nonverbal information in both formal and informal contexts. Focus on fluency building using more complex sentences and improvement in accuracy. Support of vocabulary building when receiving and producing oral messages as appropriate to level. Course does not count toward graduation.

**Prerequisite:** None (placement and registration done by the department).

**Schedule Type:** Lecture

**Contact Hours:** 1.4 lecture

**Grade Mode:** Standard Letter

**ENG 02306 ESL SPEAKING LEVEL VI 1 Credit Hour**

Practice of speaking skills while processing verbal and nonverbal information in both formal and informal contexts. Focus on fluency building using more complex sentences and improvement in accuracy. Support of vocabulary building when receiving and producing oral messages as appropriate to level. Course does not count toward graduation.

**Prerequisite:** None (placement and registration done by the department).

**Schedule Type:** Lecture

**Contact Hours:** 1.4 lecture

**Grade Mode:** Standard Letter

**ENG 02307 ESL SPEAKING LEVEL VII 1 Credit Hour**

Practice of speaking skills while processing verbal and nonverbal information in both formal and informal contexts. Focus on fluency building using more complex sentences and improvement in accuracy. Support of vocabulary building when receiving and producing oral messages as appropriate to level. Course does not count toward graduation.

**Prerequisite:** None (placement and registration done by the department).

**Schedule Type:** Lecture

**Contact Hours:** 1.4 lecture

**Grade Mode:** Standard Letter

**ENG 02401 ESL GRAMMAR LEVEL I 2 Credit Hours**

Introduction to word classes, especially verbs (including regular and irregular forms, tense and aspect, imperative), statement and question syntax, positive and negative clauses. Students are placed in appropriate course based on test score. Course does not count toward graduation.

**Prerequisite:** None (placement and registration done by the department).

**Schedule Type:** Lecture

**Contact Hours:** 2.33 lecture

**Grade Mode:** Standard Letter

**ENG 02402 ESL GRAMMAR LEVEL II 2 Credit Hours**

Application of word classes, especially verbs (including tense and aspect), modal verbs, gerunds and infinitives, nouns (count and non-count), adjectives and adverbs (comparison), statement and question syntax, positive and negative clauses. Course does not count toward graduation.

**Prerequisite:** None (placement and registration done by the department).

**Schedule Type:** Lecture

**Contact Hours:** 2.33 lecture

**Grade Mode:** Standard Letter

**ENG 02403 ESL GRAMMAR LEVEL III 2 Credit Hours**

Application of word classes, especially verbs and phrasal verbs (tense and aspect), present and future modal verbs, nouns and pronouns, as well as statement and question syntax, positive and negative clauses at appropriate level. Course does not count toward graduation.

**Prerequisite:** None (placement and registration done by the department).

**Schedule Type:** Lecture

**Contact Hours:** 2.33 lecture

**Grade Mode:** Standard Letter

**ENG 02404 ESL GRAMMAR LEVEL IV 2 Credit Hours**

Application of word classes, especially verbs and phrasal verbs (tense and aspect), gerunds and infinitives, nouns, articles, adjectives, adverbs, statement and question syntax, positive and negative clauses at appropriate level. Course does not count toward graduation.

**Prerequisite:** None (placement and registration done by the department).

**Schedule Type:** Lecture

**Contact Hours:** 2.33 lecture

**Grade Mode:** Standard Letter

**ENG 02405 ESL GRAMMAR LEVEL V 2 Credit Hours**

Application of word classes, especially verbs (tense and aspect), causal and phrasal verb syntax, verbal nouns, joiners, as well as statement and question syntax, positive and negative clauses and question tags as appropriate to level. Course does not count toward graduation.

**Prerequisite:** None (placement and registration done by the department).

**Schedule Type:** Lecture

**Contact Hours:** 2.33 lecture

**Grade Mode:** Standard Letter

**ENG 02406 ESL GRAMMAR LEVEL VI 2 Credit Hours**

Application of verb tenses and aspects, modality and passive voice, as well as clause structures and functions (noun clauses, adjective clauses) as appropriate to level. Course does not count toward graduation.

**Prerequisite:** None (placement and registration done by the department).

**Schedule Type:** Lecture

**Contact Hours:** 2.33 lecture

**Grade Mode:** Standard Letter

**ENG 02407 ESL GRAMMAR LEVEL VII 2 Credit Hours**

Application of verb tenses and aspects, passive voice, modal verbs, noun phrases, subject-verb agreement, clause structures and functions (interrogative clauses, noun clauses, adjective clauses) as appropriate to level. Course does not count toward graduation.

**Prerequisite:** None (placement and registration done by the department).

**Schedule Type:** Lecture

**Contact Hours:** 2.33 lecture

**Grade Mode:** Standard Letter

**ENG 02500 ESL PRONUNCIATION 1 Credit Hour**

(Repeatable for a maximum of 2 credit hours) Study of English pronunciation with practice in segmental and suprasegmental features (sounds, sound combinations, syllables, stress, rhythm, and intonation). Students are placed in the appropriate course based on test score. Course does not count toward graduation.

**Prerequisite:** None (placement and registration done by the department).

**Schedule Type:** Lecture

**Contact Hours:** 1.4 lecture

**Grade Mode:** Standard Letter

**ENG 11002 COLLEGE WRITING I-STRETCH (KCMP) 3 Credit Hours**

Continues the instruction and practice necessary to write for college, with emphasis on the reading, thinking, writing and technological skills necessary for writing college level texts.

**Prerequisite:** ENG 01001 with a minimum C grade; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Kent Core Composition, Transfer Module Composition

**ENG 11011 COLLEGE WRITING I (KCMP) 3 Credit Hours**

The study and practice of academic writing, including an introduction to rhetorical principles, the writing process, critical reading, research, and technology. Students with a GED Reasoning Through Language Arts score of 165 or higher need to contact the department for approval.

**Prerequisite:** ACT English score of 18-25; or SAT Evidence Based Reading and Writing score of 480-590; or Accuplacer Reading Comprehension score of 80 or higher and WritePlacer score of 4; or WritePlacer score 5 or higher.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Kent Core Composition, Transfer Module Composition

**ENG 12008 ESL WRITING LEVEL VIII 2 Credit Hours**

Review and practice of formatting and structuring essays depending on varying content and audience. Focus on persuasive and response essays; practice of outlining, summarizing and citation; review of selected text-type specific grammatical features.

**Prerequisite:** None (placement and registration done by the department).

**Schedule Type:** Lecture

**Contact Hours:** 2.33 lecture

**Grade Mode:** Standard Letter

**ENG 12009 ESL WRITING LEVEL IX 2 Credit Hours**

Review and practice of formatting and structuring essays for academic vs. non-academic purposes. Practice of paraphrasing, summarizing and citation; review of selected text-type specific grammatical features.

**Prerequisite:** None (placement and registration done by the department).

**Schedule Type:** Lecture

**Contact Hours:** 2.33 lecture

**Grade Mode:** Standard Letter

**ENG 12010 ESL WRITING LEVEL X 2 Credit Hours**

Review and practice of formatting and structuring essays for academic vs. non-academic purposes. Practice with cause and effect, compare and contrast and argumentation. Practice of paraphrasing, summarizing and citation and review of selected text-type specific grammatical features.

**Prerequisite:** None (placement and registration done by the department).

**Schedule Type:** Lecture

**Contact Hours:** 2.33 lecture

**Grade Mode:** Standard Letter

**ENG 12095 SPECIAL TOPICS IN ENGLISH AS SECOND LANGUAGE 1-2 Credit Hours**

(Repeatable for credit) Overview of skills related to a special topic in second language learning.

**Prerequisite:** None (placement and registration done by the department).

**Schedule Type:** Lecture

**Contact Hours:** 1.4-2.33 lecture

**Grade Mode:** Standard Letter

**ENG 12108 ESL READING LEVEL VIII 2 Credit Hours**

Practice identifying communicative functions of texts; practice reading strategies. Support of vocabulary development and extensive reading.

**Prerequisite:** None (placement and registration done by the department).

**Schedule Type:** Lecture

**Contact Hours:** 2.33 lecture

**Grade Mode:** Standard Letter

**ENG 12109 ESL READING LEVEL IX 2 Credit Hours**

Identifying communicative functions of texts; reading strategies; skimming and scanning. Support of vocabulary development and extensive reading.

**Prerequisite:** None (placement and registration done by the department).

**Schedule Type:** Lecture

**Contact Hours:** 2.33 lecture

**Grade Mode:** Standard Letter

**ENG 12110 ESL READING LEVEL X 2 Credit Hours**

Practice with communicative functions of texts; strategies for academic reading. Support of vocabulary development and extensive reading.

**Prerequisite:** None (placement and registration done by the department).

**Schedule Type:** Lecture

**Contact Hours:** 2.33 lecture

**Grade Mode:** Standard Letter

**ENG 12208 ESL LISTENING LEVEL VIII 2 Credit Hours**

Practice in listening strategies through predicting, using background knowledge and contextual information; focus on detail and gist, key words, stance and speaker's feelings; comparing and summarizing as well as note-taking and meanings from stress, rhythm and intonation as appropriate to level.

**Prerequisite:** None (placement and registration done by the department).

**Schedule Type:** Lecture

**Contact Hours:** 2.33 lecture

**Grade Mode:** Standard Letter

**ENG 12209 ESL LISTENING LEVEL IX 2 Credit Hours**

Practice in listening strategies through predicting, using background knowledge and contextual information; focus on detail and gist, key words, stance and schemata. Emphasis on listening for academic purposes; practice in note-taking.

**Prerequisite:** None (placement and registration done by the department).

**Schedule Type:** Lecture

**Contact Hours:** 2.33 lecture

**Grade Mode:** Standard Letter

**ENG 12210 ESL LISTENING LEVEL X 2 Credit Hours**

Practice in listening strategies through predicting, using background knowledge and contextual information; focus on detail and gist, key words, stance and schemata. Emphasis on listening for academic purposes; practice in note-taking.

**Prerequisite:** None (placement and registration done by the department).

**Schedule Type:** Lecture

**Contact Hours:** 2.33 lecture

**Grade Mode:** Standard Letter

**ENG 12308 ESL SPEAKING LEVEL VIII 1 Credit Hour**

Practice of speaking skills while processing verbal and nonverbal information in both formal and informal contexts. Focus on natural fluency and accuracy as well as pragmatic appropriateness. Support of vocabulary building when receiving and producing oral messages as appropriate to level.

**Prerequisite:** None (placement and registration done by the department).

**Schedule Type:** Lecture

**Contact Hours:** 1.4 lecture

**Grade Mode:** Standard Letter

**ENG 12309 ESL SPEAKING LEVEL IX 1 Credit Hour**

Practice of speaking skills while processing verbal and nonverbal information in both formal and informal contexts. Focus on natural fluency and accuracy as well as pragmatic appropriateness. Support of vocabulary building when receiving and producing oral messages as appropriate to level.

**Prerequisite:** None (placement and registration done by the department).

**Schedule Type:** Lecture

**Contact Hours:** 1.4 lecture

**Grade Mode:** Standard Letter

**ENG 12310 ESL SPEAKING LEVEL X 1 Credit Hour**

Practice of speaking skills while processing verbal and nonverbal information in both formal and informal contexts. Focus on natural fluency and accuracy as well as pragmatic appropriateness. Support of vocabulary building when receiving and producing oral messages as appropriate to level.

**Prerequisite:** None (placement and registration done by the department).

**Schedule Type:** Lecture

**Contact Hours:** 1.4 lecture

**Grade Mode:** Standard Letter

**ENG 12408 ESL GRAMMAR LEVEL VIII 2 Credit Hours**

Application of verb tenses and aspects, passive voice, modal verbs, gerunds and infinitives, coordinating conjunctions as well as clause structures and functions (noun clauses, adjective clauses, adverbial clauses) as appropriate to level.

**Prerequisite:** None (placement and registration done by the department).

**Schedule Type:** Lecture

**Contact Hours:** 2.33 lecture

**Grade Mode:** Standard Letter

**ENG 12409 ESL GRAMMAR LEVEL IX 2 Credit Hours**

Application of verb tenses and aspects, passive voice, nominals, interrogative syntax as well as clause structures and functions (dependent vs. independent clauses; reducing dependent clauses; conditional clauses) as appropriate to level.

**Prerequisite:** None (placement and registration done by the department).

**Schedule Type:** Lecture

**Contact Hours:** 2.33 lecture

**Grade Mode:** Standard Letter

**ENG 12410 ESL GRAMMAR LEVEL X 2 Credit Hours**

Application of verb tenses and aspects, passive voice, nominals, adverbials, interrogative syntax as well as clause structures and functions (dependent vs. independent clauses; clause reductions; conditional clauses) as appropriate to level.

**Prerequisite:** None (placement and registration done by the department).

**Schedule Type:** Lecture

**Contact Hours:** 2.33 lecture

**Grade Mode:** Standard Letter

**ENG 12507 ESL DEBATE 1 Credit Hour**

(Repeatable for a maximum of 2 credit hours) Practice of skills for persuasive speaking, making effective arguments and active listening. Engagement in formal and informal debates and presentations. Must score minimum level 7 on proficiency test.

**Prerequisite:** None (placement and registration done by the department).

**Schedule Type:** Lecture

**Contact Hours:** 1.4 lecture

**Grade Mode:** Standard Letter

**ENG 12508 ESL PUBLIC SPEAKING 1 Credit Hour**

(Repeatable for a maximum of 2 credit hours) Preparation for continued academic study and professional advancement, including effective techniques for speaking in public. Design and analysis of speeches and presentations. Must score minimum level 8 on proficiency test.

**Prerequisite:** None (placement and registration done by the department).

**Schedule Type:** Lecture

**Contact Hours:** 1.4 lecture

**Grade Mode:** Standard Letter

**ENG 12605 ESL AMERICAN CULTURE I 2 Credit Hours**

Overview of basic American values and beliefs related to history, immigration, diversity, and geography. Must score minimum level 5 on proficiency test.

**Prerequisite:** None (placement and registration done by the department).

**Schedule Type:** Lecture

**Contact Hours:** 2.33 lecture

**Grade Mode:** Standard Letter

**ENG 12606 ESL AMERICAN CULTURE II 2 Credit Hours**

Overview of basic American values and beliefs related to education, holidays, government and politics, the criminal justice system, America in the 21st century, etc. Must score minimum level 6 on proficiency test.

**Prerequisite:** None (placement and registration done by the department).

**Schedule Type:** Lecture

**Contact Hours:** 2.33 lecture

**Grade Mode:** Standard Letter

**ENG 12707 ESL BUSINESS ENGLISH I 2 Credit Hours**

Overview of business communication, business writing strategies, and computer skills in the workplace. Must score minimum level 7 on proficiency test.

**Prerequisite:** Special approval.

**Schedule Type:** Lecture

**Contact Hours:** 5 lecture

**Grade Mode:** Standard Letter

**ENG 12708 ESL BUSINESS ENGLISH II 2 Credit Hours**

Development of oral and written business communication skills.

**Prerequisite:** ENG 12707 with a minimum C- grade; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 5 lecture

**Grade Mode:** Standard Letter

**ENG 12801 ESL ACADEMIC SUCCESS 1 Credit Hour**

This class will provide transitional support for students preparing to enter an undergraduate or graduate course of study from the ESL Center. Students will focus on the social, cultural, and academic skills needed to be competent and successful in an American university setting including understanding university policies, academic expectations, and cultural norms.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 1 lecture

**Grade Mode:** Standard Letter

**ENG 20002 INTRODUCTION TO TECHNICAL WRITING 3 Credit Hours**

Introduction to communication practices within technical communities. Planning, drafting, revising and editing. Process descriptions, object descriptions, instructional texts, technical correspondence, problem reports, critical reflection.

**Prerequisite:** ACT English score of 26 or higher; or SAT Evidence Based Reading and Writing score of 600 or higher; or minimum C- grade in ENG 11002, ENG 11011 or HONR 10197.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ENG 20021 INTRODUCTION TO CREATIVE WRITING 3 Credit Hours**

Practice in various forms of creative writing with some emphasis on student interests and on sources of creativity.

**Prerequisite:** Minimum 26 ACT combined English/writing score; or minimum 600 SAT writing score; or ENG 11002, or ENG 11011 or HONR 10197.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ENG 21001 INTRODUCTION TO ETHNIC LITERATURE OF THE UNITED STATES (DIVD) 3 Credit Hours**

Study of selected ethnic American writers; may include works by African, Asian, Hispanic, Jewish, Native Americans and other groups.

**Prerequisite:** Minimum 26 ACT combined English/writing score; or minimum 600 SAT writing score; or ENG 11002 or ENG 11011 or HONR 10197.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Diversity Domestic

**ENG 21002 INTRODUCTION TO WOMEN'S LITERATURE (DIVD) 3 Credit Hours**

Introduction to works by women writing in English, and to literary and gender issues they raise.

**Prerequisite:** Minimum 26 ACT combined English/writing score; or minimum 600 SAT writing score; or ENG 11002 or ENG 11011 or HONR 10197.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Diversity Domestic

**ENG 21003 INTRODUCTION TO LGBT LITERATURE (DIVD) 3 Credit Hours**

Introduction to lesbian, gay, bisexual and transgender literature in English and to issues of gender, sexuality and culture raised by this literature.

**Prerequisite:** ACT English score of 26 or higher; or SAT Evidence based Reading and Writing score of 600 or higher; or ENG 11002, ENG 11011, or HONR 10197.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Diversity Domestic

**ENG 21011 COLLEGE WRITING II (KCMP) 3 Credit Hours**

Continuation of college-level writing instruction with emphasis on research and inquiry, culminating in a lengthy written and/or multi-modal project.

**Prerequisite:** ACT English score of 26 or higher; or SAT Evidence Based Reading and Writing score of 600 or higher; or minimum C- grade in ENG 11002, ENG 11011, or HONR 10197.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Kent Core Composition, Transfer Module Composition

**ENG 21054 INTRODUCTION TO SHAKESPEARE (KHUM) 3 Credit Hours**

Study of representative plays and poems in the context of Shakespeare's age, his language and his cultural influence.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Kent Core Humanities, Transfer Module Humanities

**ENG 22071 GREAT BOOKS TO 1700 (KHUM) 3 Credit Hours**

Great works of world literature read in English, from ancient world to 1700, covering a wide range of ethnic and national voices, genres and traditions.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Kent Core Humanities, Transfer Module Humanities

**ENG 22072 GREAT BOOKS SINCE 1700 (KHUM) 3 Credit Hours**

Great works of world literature read in English, from 1700 to today, covering a wide range of ethnic and national voices, genres and traditions.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Kent Core Humanities, Transfer Module Humanities

**ENG 22073 MAJOR MODERN WRITERS: BRITISH AND UNITED STATES (KHUM) 3 Credit Hours**

Introduction to British and U.S. writers of the 20th and 21st centuries; study of their works in their literary and cultural contexts.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Kent Core Humanities, Transfer Module Humanities

**ENG 24001 INTRODUCTION TO LITERARY STUDY 3 Credit Hours**

Introduction to techniques for reading and writing about literature, with emphasis on reading strategies for prose, poetry and drama. Literary terms, composition of interpretive essays, and literary research is also studied.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter



**ENG 24002 INTRODUCTION TO COMPOSITION THEORY 3 Credit Hours**

Provides an introduction to composition theory, research in writing studies and pedagogical practices for academic writing. Students learn different methods of teaching writing by producing essays and projects within different genres and by applying different approaches to composition to their own work. Students examine writing, as well as research and teaching about writing, as socially, politically and historically situated activities.

**Prerequisite:** ACT English score of 26 or higher; or SAT Evidence based Reading and Writing score of 600 or higher; or ENG 11002, ENG 11011 or HONR 10197.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ENG 25001 LITERATURE IN ENGLISH I 3 Credit Hours**

British literature written before 1800 studied within a broad historical context. Comprehensive introduction to knowledge and skills that serve as a foundation for further study in literature.

**Prerequisite:** ACT English score of 26 or higher; or SAT Evidence based Reading and Writing score of 600 or higher; or ENG 11002, ENG 11011, or HONR 10197.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** TAG Arts and Humanities

**ENG 25002 LITERATURE IN ENGLISH II 3 Credit Hours**

British literature written since 1800 studied within a broad historical context. Comprehensive introduction to knowledge and skills that serve as a foundation for further study in literature.

**Prerequisite:** ACT English score of 26 or higher; or SAT Evidence Based Reading and Writing score of 600 or higher; or ENG 11002, ENG 11011, or HONR 10197.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** TAG Arts and Humanities

**ENG 25004 LITERATURE IN THE UNITED STATES I 3 Credit Hours**

U.S. literature from the colonial period until 1865 studies within a broad historical context. Comprehensive introduction to knowledge and skills that serve as a foundation for further study in literature.

**Prerequisite:** ACT English score of 26 or higher; or SAT Evidence Based Reading and Writing score of 600 or higher; or ENG 11002, ENG 11011, or HONR 10197.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** TAG Arts and Humanities

**ENG 25005 LITERATURE IN THE UNITED STATES II 3 Credit Hours**

U.S. literature from 1865 to the present studied within a broad historical context. Comprehensive introduction to knowledge and skills that serve as a foundation for further study in literature.

**Prerequisite:** ACT English score of 26 or higher; or SAT Evidence based Reading and Writing score of 600 or higher; or ENG 11002, ENG 11011, or HONR 10197.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** TAG Arts and Humanities

**ENG 26001 POPULAR FORMS OF LITERATURE 3 Credit Hours**

Introduction to popular forms of literature such as the western, the detective story, science fiction, fantasy, the war story and others.

**Prerequisite:** Minimum 26 ACT combined English/writing score; or minimum 600 SAT writing score; or ENG 11002; or ENG 11011; or HONR 10197.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ENG 26095 SOPHOMORE SPECIAL TOPICS 3 Credit Hours**

(Repeatable for credit) In-depth study of a particular writer, theme or literary movement, such as literature and film, gothic novels.

**Prerequisite:** ACT English score of 26 or higher; or SAT Evidence based Reading and Writing score of 600 or higher; or ENG 11002, ENG 11011, or HONR 10197.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ENG 30001 ENGLISH STUDIES (WIC) 3 Credit Hours**

Writing about and reading in a variety of texts and critical modes as an introduction to critical thinking and writing. Emphasis on the application of principles and methods of literary study to selected texts.

**Prerequisite:** ENG 21011 or HONR 10297.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Writing Intensive Course

**ENG 30050 WRITING AND RHETORIC IN A DIGITAL AGE 3 Credit Hours**

Writing course with a focus on learning and using a variety of tools available within contemporary digital composing environments.

**Prerequisite:** ENG 21011 or HONR 10297.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ENG 30051 WRITING, RHETORIC AND NEW MEDIA 3 Credit Hours**

Rhetorical principles for multimodal writing to produce rhetorically effective professional, scholarly, personal, and civic texts that integrate some blend of written word, visuals, images, audio and video.

**Prerequisite:** ENG 21011 or HONR 10297.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ENG 30052 MEDICAL AND SCIENTIFIC WRITING 3 Credit Hours**

Explores the communication principles and practices which occur in medical, health scientific, and scientific contexts. Students gain extensive individual and collaborative practice in writing about medicine and science for diverse audiences.

**Prerequisite:** ENG 21011 or HONR 10297.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter



**ENG 30061 WRITING IN BUSINESS 2 Credit Hours**

Introduces students to writing practices in business settings, helping students to understand several of the ways that business writing differs from academic writing. Students learn practical skills related to addressing audience expectations relative to the purpose of the message, applying appropriate formats to business documents, integrating graphics commonly used in business documents, and using principles of rhetoric to convey a message effectively and concisely.

**Prerequisite:** ENG 21011 and COMM 15000 and BUS 10123; and special approval.

**Corequisite:** BUS 30061.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**ENG 30062 PRINCIPLES OF TECHNICAL WRITING 3 Credit Hours**

Introduces theoretical principles of technical communication. Extensive practice in the use, evaluation and production of complex technical documents including research reports/research proposals. Emphasis on oral, written and electronic communication.

**Prerequisite:** Minimum C- grade in ENG 21011 or HONR 10297.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ENG 30063 PROFESSIONAL WRITING 3 Credit Hours**

Practice norms and strategies of effective workplace communication.

**Prerequisite:** Minimum C- grade in ENG 21011 or HONR 10297; and junior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** TAG Business

**ENG 30064 ARGUMENTATIVE PROSE WRITING 3 Credit Hours**

Practice in writing argumentative essays, with emphasis on discussion of student work.

**Prerequisite:** Minimum C- grade in ENG 21011 or HONR 10297.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ENG 30065 EXPOSITORY PROSE WRITING 3 Credit Hours**

Practice in prose composition with emphasis on exposition and discussion of student work.

**Prerequisite:** ENG 21011 or HONR 10297.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ENG 30066 WRITING IN THE PUBLIC SPHERE (ELR) 3 Credit Hours**

Writing course focusing on a multimodal service-learning project collaborating with peer and community partners in an online, hybrid or face-to-face delivery system.

**Prerequisite:** Minimum C- grade in ENG 21011 or HONR 10297.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Experiential Learning Requirement

**ENG 30067 FICTION WRITING I 3 Credit Hours**

Instruction and practice in writing fiction with specific models and discussions of student work on a weekly basis.

**Prerequisite:** ENG 20021.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ENG 30068 FICTION WRITING II 3 Credit Hours**

Continued instruction and practice in writing of fiction with specific models and discussion of student work on a weekly basis.

**Prerequisite:** ENG 30067.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ENG 30069 POETRY WRITING I 3 Credit Hours**

Instruction in and practice of writing poetry with specific models and discussion of student work on a weekly basis.

**Prerequisite:** ENG 20021.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ENG 30070 POETRY WRITING II 3 Credit Hours**

Continued practice in writing of poetry with specific models and discussion of student work on a weekly basis.

**Prerequisite:** ENG 30069.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ENG 30071 CREATIVE NONFICTION 3 Credit Hours**

Instruction and practice in writing creative nonfiction with specific models and discussions of student work on a weekly basis.

**Prerequisite:** Minimum C grade in ENG 21011 or HONR 10297.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ENG 30072 EDITING AND PUBLISHING I 3 Credit Hours**

Provides students with an overview of the editing and publishing industry. Provides practice, instruction, and feedback on document editing and book production and publishing.

**Prerequisite:** ENG 21011 or HONR 10297.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ENG 30073 EDITING AND PUBLISHING II 3 Credit Hours**

Builds on the skills acquired in ENG 30072 through proofreading and copyediting exercises based on the Chicago Manual of Style. Emphasis on topics such as document design and production, fact-checking, working within social media, and editing work written by others.

**Prerequisite:** ENG 30072.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ENG 30074 GRAMMAR FOR EDITING 3 Credit Hours**

Course focuses on editing practices that require knowledge of the rules of grammar, usage, and stylistic conventions in a variety of professional fields.

**Prerequisite:** ENG 21011 or HONR 10297.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ENG 30095 JUNIOR SPECIAL TOPICS 3 Credit Hours**

(Repeatable for credit) An opportunity to focus on important issues in literature, writing, criticism or cultural studies.

**Prerequisite:** Junior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ENG 31001 FUNDAMENTAL ENGLISH GRAMMAR 3 Credit Hours**

Study of grammatical structures and matters of usage and style in edited U.S. English.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ENG 31002 HISTORY OF THE ENGLISH LANGUAGE 3 Credit Hours**

Study of the development of the English language from the Indo-European period to the present.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ENG 31003 LINGUISTICS 3 Credit Hours**

Survey of language study including linguistic tools of analysis such as phonetics, morphology and syntax, and selected topics in applied linguistics.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ENG 31004 LEXICOLOGY/LEXICOGRAPHY 3 Credit Hours**

In-depth study of the lexicon in language use and the reasons for its expansion and continuous change. Study of tools in lexicography and analysis of the role of lexicography in language education.

**Prerequisite:** ENG 31003.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ENG 31005 CHILD SECOND LANGUAGE ACQUISITION 3 Credit Hours**

Explores theory, research and teaching/learning applications of second language acquisition in children.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ENG 31006 WORLD ENGLISHES (DIVG) (WIC) 3 Credit Hours**

Explores English varieties in the context of world languages, examining language politics with a focus on first/second language education and literacy in an electronic age.

**Prerequisite:** ENG 21011 or HONR 10297.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Diversity Global, Writing Intensive Course

**ENG 31007 PEDAGOGY FOR TEACHING ENGLISH AS A SECOND LANGUAGE 3 Credit Hours**

Theoretical bases, approaches, techniques of second language pedagogy at the elementary and secondary levels. Inquiry into English as a Second Language methods, materials and lesson planning.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ENG 31008 GRAMMAR FOR TEACHING ENGLISH AS A SECOND/ FOREIGN LANGUAGE 3 Credit Hours**

Introduces students to grammars of spoken and written English and pedagogical grammar. Topics include parts of speech, tense and aspect, clause and phrase types, grammar in genre and pedagogical applications relevant to the English as a second/foreign language profession.

**Prerequisite:** ENG 31001.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ENG 31009 ADULT SECOND LANGUAGE ACQUISITION 3 Credit Hours**

Explores theory, research, teaching, and learning applications of second language acquisition in adult populations.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ENG 31012 GENDER AND LANGUAGE 3 Credit Hours**

This course applies linguistic concepts to examine gendered language in written and oral discourse, focusing on the definition of gender and how we experience it in our lives.

**Prerequisite:** ENG 21011 or HONR 10297.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ENG 31095 SPECIAL TOPICS IN LINGUISTICS 3 Credit Hours**

(Repeatable for credit) Study of specific topics in linguistics such as sociolinguistics, phonetics and phonology or bi- and multi-lingualism.

**Prerequisite:** ENG 21011 or HONR 10297.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ENG 32001 CHILDREN'S LITERATURE 3 Credit Hours**

Survey of children's literature from Mother Goose rhymes and picture books through modern realistic fiction.

**Prerequisite:** ACT English score of 26 or higher; or SAT Evidence based Reading and Writing score of 600 or higher; or ENG 11002, ENG 11011, or HONR 10197.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ENG 32002 LITERATURE FOR YOUNG ADULTS 3 Credit Hours**

Study of literature appropriate to young adults.

**Prerequisite:** ACT English score of 26 or higher; or SAT Evidence based Reading and Writing score of 600 or higher; or ENG 11002, ENG 11011, or HONR 10197.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ENG 33001 U.S. LITERATURE TO 1865 3 Credit Hours**

U.S. literary themes, genres and authors studied in their historical and cultural contexts. Selections from the Colonial period through the Civil War.

**Prerequisite:** ENG 21011 or HONR 10297.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ENG 33002 U.S. LITERATURE FROM 1865 TO 1945 3 Credit Hours**

U.S. literary themes, genres and authors studied in their historical and cultural contexts. Selections from the close of the Civil War through World War II.

**Prerequisite:** ENG 21011 or HONR 10297.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ENG 33003 U.S. LITERATURE FROM 1945 TO PRESENT 3 Credit Hours**

U.S. literary themes, genres and authors studied in their historical and cultural contexts. Selections from the close of World War II to the present.

**Prerequisite:** ENG 21011 or HONR 10297.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ENG 33010 AFRICAN-AMERICAN LITERATURE TO 1900 3 Credit Hours**

(Cross-listed with PAS 32001) Study of African-American literature from its beginning to 1900, including such writers as Wheatley, J. Hammon, Terry, B. Hammon, Jones, Marrant, Allen, Hall, Walker, Truth, Garnet, Douglass, Delany, Harper, Stewart, Turner, Jacobs, Keckley, Brown, Wilson, Griggs, Chesnutt and Dunbar.

**Prerequisite:** ENG 21011 or HONR 10297.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ENG 33012 MODERN AFRICAN-AMERICAN LITERATURE 3 Credit Hours**

(Cross-listed with PAS 32002) Study of African-American literature from the early twentieth century to the present. The authors include Toomer, Hughes, Larsen, Wright, Baldwin, Hansberry, Jones, Lorde, Walker, Morrison, Mosley, Youngblood and Carter.

**Prerequisite:** ENG 21011 or HONR 10297.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ENG 33013 PAN-AFRICAN WOMEN'S LITERATURE (DIVG) 3 Credit Hours**

(Cross-listed with PAS 37100) Introduces students to literary works by African and Caribbean women.

**Prerequisite:** ENG 11011.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Diversity Global

**ENG 33014 AFRICAN-AMERICAN WOMEN'S LITERATURE 3 Credit Hours**

(Cross-listed with PAS 37200) Introduces students to literary works by African-American women.

**Prerequisite:** ENG 11011.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ENG 33015 AFRICAN LITERATURES (DIVG) 3 Credit Hours**

(Cross-listed with PAS 32050) Examines works of major 20th-century African, African American and Caribbean writers and intellectuals.

Authors include Niane, Achebe, Emecheta, Prince, Hurston, Hughes, Cesaire, Senghor, Soyinka and many others.

**Prerequisite:** ENG 11011 or HONR 10197.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Diversity Global

**ENG 34001 MEDIEVAL LITERATURE 3 Credit Hours**

Medieval literary themes, genres, and authors studied in their historical and cultural contexts. Selections from Anglo-Saxon and Middle English literature.

**Prerequisite:** ENG 21011 or HONR 10297.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ENG 34002 BRITISH LITERATURE, 1500-1660 3 Credit Hours**

British literary themes, genres and authors studied in their historical and cultural contexts. Selections from Renaissance and Reformation literature through the English Civil War.

**Prerequisite:** ENG 21011 or HONR 10297.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ENG 34003 BRITISH LITERATURE, 1660-1800 3 Credit Hours**  
British literary themes, genres and authors studied in their historical and cultural contexts. Selections from Restoration, Augustan and early Romantic literature.

**Prerequisite:** ENG 21011 or HONR 10297.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ENG 34004 BRITISH LITERATURE, 1800-1900 3 Credit Hours**  
British literary themes, genres and authors studied in their historical and cultural contexts. Selections from Romantic and Victorian literature.

**Prerequisite:** ENG 21011 or HONR 10297.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ENG 34005 BRITISH AND IRISH LITERATURE, 1900-PRESENT 3 Credit Hours**

British and Irish literary themes, genres and authors studied in their historical and cultural contexts. Selections from modern and post modern literature.

**Prerequisite:** ENG 21011 or HONR 10297.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ENG 34011 WORLD LITERATURE IN ENGLISH (DIVG) 3 Credit Hours**

An examination of selected writings in English by postcolonial authors from Africa, Asia, the Caribbean and other parts of the world.

**Prerequisite:** ENG 21011 or HONR 10297.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Diversity Global

**ENG 34021 WOMEN'S LITERATURE (DIVD) 3 Credit Hours**

Critical and theoretical consideration of gender issues concerning British and U.S. women writers studied in their historical and cultural contexts.

**Prerequisite:** ENG 21011 or HONR 10297.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Diversity Domestic

**ENG 34031 SHORT STORY 3 Credit Hours**

Critical analysis of short stories written by important world authors. Selections include stories originally written in English and stories translated into English.

**Prerequisite:** ENG 21011 or HONR 10297.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ENG 34041 FAIRY TALES 3 Credit Hours**

Study of classic fairy tales by Perrault, Grimms, Andersen and others as fundamental texts of Western culture worthy of literary criticism.

**Prerequisite:** ENG 21011 or HONR 10297.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ENG 34055 SHAKESPEARE 3 Credit Hours**

Study of plays representing Shakespeare's entire career, including Henry IV parts I and II, The Merchant of Venice, Measure for Measure, Hamlet, Othello and The Tempest.

**Prerequisite:** ENG 21011 or HONR 10297.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ENG 34065 CHAUCER 3 Credit Hours**

Close study of Chaucer's Canterbury Tales, with some attention to courtly poems and/or selected lyrics.

**Prerequisite:** ENG 21011 or HONR 10297.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ENG 34090 SHAKESPEARE IN PERFORMANCE 3 Credit Hours**

Course is designed around a field-trip to the American Shakespeare Center in Staunton, Va., during which students attend performances of plays and participate in workshops. Students also attend at least one performance of an early modern play staged in Northeastern Ohio. Students formally study all the plays before attending performances of them.

**Prerequisite:** ENG 21011 or HONR 10297.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ENG 34095 SPECIAL TOPICS:MAJOR AUTHOR STUDIES 3 Credit Hours**

(Repeatable for credit when topics varies) Intensive study of one or more authors from the English-speaking world.

**Prerequisite:** ENG 21011 or HONR 10297.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ENG 35101 LITERATURE AND OTHER DISCIPLINES 3 Credit Hours**

Study of literature in relation to, or from the standpoint of, another discipline such as psychoanalysis, psychology, religion, theology, music and painting.

**Prerequisite:** ENG 21011 or HONR 10297.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ENG 35201 THE BIBLE AS LITERATURE 3 Credit Hours**

Study of Bible as a great book subject to literary criticism and as a main document of Western culture. Old and New Testaments read.

**Prerequisite:** ENG 21011 or HONR 10297.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ENG 35301 LESBIAN, GAY, BISEXUAL AND TRANSGENDER: CRITICAL PERSPECTIVES (DIVD) 3 Credit Hours**

Study of theory, language and other aspects of lesbian, gay, bisexual and transgendered literature and culture.

**Prerequisite:** ENG 21011 or HONR 10297.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Diversity Domestic

**ENG 35401 SCIENCE FICTION 3 Credit Hours**

Study of the origins, history, themes and major works of science fiction drawn from a variety of national literatures, as well as the adaptation of literary works into film, television, graphic novels, video games, and other forms.

**Prerequisite:** ENG 21011 or HONR 10297.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ENG 36001 APPLIED LITERARY CRITICISM 3 Credit Hours**

Advanced, reading-intensive course in the reading and interpretation of literary scholarship, with emphasis on published scholarly analysis. Primary and secondary texts vary, depending on the specialization of the instructor.

**Prerequisite:** ENG 21011 or HONR 10297; and junior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ENG 37001 CLASSICAL RHETORIC 3 Credit Hours**

Ancient approaches to rhetoric studied in their historical and cultural contexts. Selections from Greek and Roman thinkers such as the Sophists, Plato, Aristotle, Cicero and Quintilian.

**Prerequisite:** ENG 21011 or HONR 10297.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ENG 37101 CRITICAL RHETORICAL STUDIES OF TEXTS IN CONTEXT 3 Credit Hours**

Students learn critical analytical methods and apply them to written texts, examining the rhetorical function of their linguistic elements and their relationship to rhetorical contexts.

**Prerequisite:** ENG 21011 or HONR 10297.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ENG 38001 CRITICAL THEORY AND READING 3 Credit Hours**

Introduction to major interpretive paradigms in literary studies, from American New Criticism to the present, with emphasis on strategies for analyzing poetry, drama and narrative fiction.

**Prerequisite:** ENG 21011 or HONR 10297; and ENG 24001.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ENG 38002 RHETORIC AND WRITING STUDIES 3 Credit Hours**

Introduction to theories and scholarship that have shaped the disciplinary study of rhetoric and writing, including key figures and concepts from classical and modern rhetoric that continue to influence contemporary writing scholarship and pedagogy.

**Prerequisite:** ENG 21011 or HONR 10297; and ENG 24001.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ENG 38895 SPECIAL TOPICS IN WRITING 3 Credit Hours**

(Repeatable for credit) Topics vary with an emphasis on writing may. Topics include editing, publishing and grammar.

**Prerequisite:** ENG 21011 or HONR 10297.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ENG 39095 SPECIAL TOPICS IN LITERARY HISTORY 3 Credit Hours**

(Repeatable for credit) Topics vary in the study of selected literary histories such as the travel narrative, the fairy tale, the detective story and postcolonial literature.

**Prerequisite:** ENG 21011 or HONR 10297.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ENG 39195 SPECIAL TOPICS IN DRAMA 3 Credit Hours**

(Repeatable for credit) Study of selected topics, themes, or periods in drama such as gender construction, obsession or medieval drama.

**Prerequisite:** ENG 21011 or HONR 10297.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ENG 39295 SPECIAL TOPICS IN POETRY 3 Credit Hours**

(Repeatable for credit) Study of selected topics in poetry such as poetic form, historical and cultural contexts and artistic movements.

**Prerequisite:** ENG 21011 or HONR 10297.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ENG 39395 SPECIAL TOPICS IN FICTION 3 Credit Hours**

(Repeatable for credit) Study of selected topics in fiction such as the autobiographical novel, the novella and the short story.

**Prerequisite:** ENG 21011 or HONR 10297.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ENG 39495 SPECIAL TOPICS IN COMPARATIVE LITERATURE 3 Credit Hours**

(Repeatable for credit) Study of selected topics in comparative literature such as movements and genres in world literature and the interrelationships of the arts.

**Prerequisite:** ENG 21011 or HONR 10297.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ENG 39595 SPECIAL TOPICS IN LITERARY CRITICISM 3 Credit Hours**

(Repeatable for credit) Study of selected topics in literary criticism such as reader response criticism, psychoanalytic methodologies or Marxist approaches.

**Prerequisite:** ENG 21011 or HONR 10297.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ENG 39695 SPECIAL TOPICS IN ETHNIC LITERATURE OF THE UNITED STATES 3 Credit Hours**

(Repeatable for credit) Study of selected topics in ethnic literature such as the literature of one ethnic group, race and ethnicity in U.S. culture.

**Prerequisite:** ENG 21011 or HONR 10297.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter



**ENG 39795 SPECIAL TOPICS IN WOMEN'S LITERATURE 3 Credit Hours**

(Repeatable for credit) Study of selected topics in women's literature organized around literary, historical and theoretical issues.

**Prerequisite:** ENG 21011 or HONR 10297.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ENG 39895 SPECIAL TOPICS IN RHETORIC, COMPOSITION AND WRITING 3 Credit Hours**

(Repeatable for credit) Study of selected topics in rhetoric, composition and writing such as historical and contemporary studies of political and professional discourse.

**Prerequisite:** ENG 21011 or HONR 10297.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ENG 39995 SPECIAL TOPICS CULTURAL STUDIES 3 Credit Hours**

(Repeatable for credit) Study of selected topics in cultural studies organized around a particular mode or methodology of cultural analysis.

**Prerequisite:** ENG 21011 or HONR 10297.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ENG 40099 WRITING PORTFOLIO (ELR) 2 Credit Hours**

Directed practice in constructing a portfolio of original writing, which may be creative, expository, technical, or preprofessional in nature.

**Prerequisite:** Creative Writing minor or Professional and Technical Writing minor; and junior standing.

**Schedule Type:** Senior Project/Honors Thesis

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter-IP

**Attributes:** Experiential Learning Requirement

**ENG 41001 SOCIOLINGUISTICS IN SCHOOLING (DIVD) (WIC) 3 Credit Hours**

Examines the interactions between society and language. Explores pedagogical implications of language variation.

**Prerequisite:** ENG 21011 or HONR 10297.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Diversity Domestic, Writing Intensive Course

**ENG 41003 LANGUAGE CURRICULUM, MATERIALS AND ASSESSMENT 3 Credit Hours**

Advanced inquiry into English as a Second Language teaching methods, curriculum design, and materials selection, use and design. Assessment of learners in a student-centered ESL or language curriculum.

**Prerequisite:** ENG 31007.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ENG 41009 STUDENT TEACHING (ELR) 9 Credit Hours**

(Slashed with ENG 51009) Full-time student teaching over 13 weeks in English as a Second Language in grades P-12. Background check by the Bureau of Criminal Investigation and Identification (BCII) and Federal Bureau of Investigation (FBI) required to be presented to authorized personnel at the assigned school-agency before the first day of student teaching. To be enrolled in the course, students must have official valid certification of child safety training, approved basic life support and ALICE training presented to the campus office of clinical experience.

**Prerequisite:** CULT 29535 and EPSY 29525 and ETEC 39525; and eligibility for student teaching and special approval.

**Corequisite:** ENG 41525.

**Schedule Type:** Practical Experience

**Contact Hours:** 27.733 other

**Grade Mode:** Satisfactory/Unsatisfactory

**Attributes:** Experiential Learning Requirement

**ENG 41092 ESL PRACTICUM IN INTENSIVE ENGLISH PROGRAMS (ELR) 3 Credit Hours**

(Repeatable for credit) Provides opportunities for students to observe, assist, and or teach English as a second language in the ESL Center, including 70 fieldwork hours. Participating ESL Center classes are held Monday through Friday.

**Pre/corequisite:** ENG 31007.

**Schedule Type:** Lecture, Practical Experience

**Contact Hours:** 2 lecture, 5 other

**Grade Mode:** Standard Letter

**Attributes:** Experiential Learning Requirement

**ENG 41093 VARIABLE TITLE WORKSHOP IN ENGLISH 1-6 Credit Hours**

(Repeatable for credit) An opportunity to focus on concerns of the discipline and on new developments in writing, criticism, literature and career opportunities.

**Prerequisite:** Junior standing.

**Schedule Type:** Workshop

**Contact Hours:** 1-6 other

**Grade Mode:** Satisfactory/Unsatisfactory

**ENG 41094 COLLEGE TEACHING ASSISTANT (ELR) 1-3 Credit Hours**

(Repeatable for maximum 6 credit hours) An opportunity to assist in the development and delivery of a college course in English. Expectations may include group and class leadership, selection of materials, development of classroom inquiry techniques, and multimedia support.

**Prerequisite:** Senior standing; and special approval.

**Schedule Type:** Field Experience, Practical Experience

**Contact Hours:** 1-3 other

**Grade Mode:** Standard Letter

**Attributes:** Experiential Learning Requirement

**ENG 41096 INDIVIDUAL INVESTIGATION 1-3 Credit Hours**

(Repeatable for credit) Open to advanced undergraduate students in English or TESL. Only 3 hours of individual investigation count toward the English major.

**Prerequisite:** Junior standing; and special approval of instructor and department.

**Schedule Type:** Individual Investigation

**Contact Hours:** 1-3 other

**Grade Mode:** Standard Letter-IP

**ENG 41098 GUIDED RESEARCH IN ENGLISH (ELR) 1-3 Credit Hours**

(Repeatable for a maximum of 6 credit hours) Independent student research with faculty guidance.

**Prerequisite:** Junior standing; and special approval.

**Schedule Type:** Research

**Contact Hours:** 1-3 other

**Grade Mode:** Standard Letter

**Attributes:** Experiential Learning Requirement

**ENG 41192 ESL PRACTICUM IN A P-12 SETTING (ELR) 3 Credit Hours**

(Repeatable for credit) Provides students seeking educational licensure opportunities to observe, assist, and or teach English as a second language in P-12 schools, including 70 field-clinical hours. Students must complete the Bureau of Criminal Investigation and Identification (BCII) and Federal Bureau of Investigation (FBI) background checks and submit results to authorized personnel at the assigned school-agency before the first day of Practicum.

**Prerequisite:** ENG 31005.

**Pre/corequisite:** ENG 31007.

**Schedule Type:** Lecture, Practical Experience

**Contact Hours:** 2 lecture, 5 other

**Grade Mode:** Standard Letter

**Attributes:** Experiential Learning Requirement

**ENG 41194 TUTORING OF WRITING 3 Credit Hours**

Provides training and professional development for writing center tutors. Course covers writing center theory and practice, the history writing centers, composition pedagogy, writing across the curriculum, tutoring ESL students, assessing writing center services, and the development of outreach programming.

**Prerequisite:** Minimum C grade in ENG 21011 or HONR 10297.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ENG 41198 RESEARCH ASSISTANT IN ENGLISH (ELR) 1-3 Credit Hours**

(Repeatable for a maximum of 6 credit hours) An opportunity to assist a faculty member on faculty initiated research in criticism and literary analysis, rhetoric and composition, or applied language acquisition and teaching.

**Prerequisite:** Junior standing; and special approval.

**Schedule Type:** Research

**Contact Hours:** 1-3 other

**Grade Mode:** Standard Letter

**Attributes:** Experiential Learning Requirement

**ENG 41292 TEACHING ENGLISH AS A FOREIGN LANGUAGE PRACTICUM (ELR) 3,6 Credit Hours**

(Repeatable for a maximum of 12 credits) Students observe, participate and teach in a number of school contexts in Florence, Italy, from primary to secondary, community and higher education. Course gives students authentic practice teaching English in the foreign language context.

**Pre/corequisite:** ENG 31007.

**Schedule Type:** Practical Experience

**Contact Hours:** 5-10 other

**Grade Mode:** Standard Letter

**Attributes:** Experiential Learning Requirement

**ENG 41525 INQUIRY INTO PROFESSIONAL PRACTICE 3 Credit Hours**

Preparation for student teaching of English as a second language, grades K-12.

**Prerequisite:** CULT 29535 and EPSY 29525 and ETEC 39525.

**Corequisite:** ENG 41009.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ENG 42092 WRITING INTERNSHIP (ELR) 1-3 Credit Hours**

(Repeatable for a maximum of 6 credit hours) Guided internship in professional writing, editing, or publishing. Possible placements include the KSU Press, Institute for Bibliography and Editing, and WICK Poetry Center.

**Prerequisite:** Junior standing; and special approval.

**Schedule Type:** Field Experience, Practical Experience

**Contact Hours:** 1-3 other

**Grade Mode:** Satisfactory/Unsatisfactory

**Attributes:** Experiential Learning Requirement

**ENG 42192 SERVICE LEARNING IN ENGLISH STUDIES (ELR) 3 Credit Hours**

(Repeatable for maximum 6 credit hours) Provides guided opportunities for completing service learning related to English Studies. Service placements meet a community need and provide practice in such areas as writing, editing, publishing, teaching, and tutoring.

**Prerequisite:** Junior standing; and special approval.

**Schedule Type:** Field Experience, Practical Experience

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**Attributes:** Experiential Learning Requirement

**ENG 43092 TEACHING POETRY IN THE SCHOOLS (ELR) 3 Credit Hours**

(Repeatable for maximum 6 credit hours) Exploration of various approaches to teaching poetry writing, poetry appreciation, and poetry performance in school contexts. Study of creative writing as a means of developing literacy and promoting human growth.

**Prerequisite:** Sophomore standing; and special approval.

**Schedule Type:** Field Experience, Practical Experience

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**Attributes:** Experiential Learning Requirement

**ENG 49091 SENIOR SEMINAR (ELR) (WIC) 3 Credit Hours**

(Repeatable for credit) Intensive study of in English studies. Students complete a long writing project during the semester.

**Prerequisite:** ENG 38001 or ENG 38002; and English major.

**Schedule Type:** Seminar

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**Attributes:** Experiential Learning Requirement, Writing Intensive Course

**ENG 49095 SENIOR SPECIAL TOPICS 3 Credit Hours**

(Repeatable for credit) Intensive study of topics that will vary each semester.

**Prerequisite:** Senior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ENG 51009 STUDENT TEACHING 9 Credit Hours**

(Slashed with ENG 41009) Full-time student teaching over 13 weeks in English as a Second Language in grades P-12. Background check by the Bureau of Criminal Investigation and Identification (BCII) and Federal Bureau of Investigation (FBI) required to be presented to authorized personnel at the assigned school-agency before the first day of student teaching. To be enrolled in the course, students must have official valid certification of child safety training, approved basic life support and ALICE training presented to the campus office of clinical experience.

**Prerequisite:** Eligibility for student teaching; graduate standing; and special approval.

**Schedule Type:** Practical Experience

**Contact Hours:** 27.733 other

**Grade Mode:** Satisfactory/Unsatisfactory

**ENG 61000 INTRODUCTION TO RESEARCH AND PEDAGOGY IN CRITICAL READING 3 Credit Hours**

Introduction to contemporary methods of literary and cultural criticism and to the profession of teaching English in college.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ENG 61094 INTRODUCTION TO RESEARCH IN THE TEACHING OF COLLEGE WRITING 3 Credit Hours**

(Repeatable for credit) Using the Kent program as an example, the focus will be on teaching composition, literature and language along with the needed planning and evaluation.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ENG 62291 SEMINAR: BRITISH LITERATURE 1800 TO PRESENT 3 Credit Hours**

(Repeatable for credit) (Slashed with ENG 72291) In-depth treatment of various topics from the Romantic and Victorian periods and the 20th century.

**Prerequisite:** Graduate standing.

**Schedule Type:** Seminar

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**ENG 63001 METHODOLOGY OF TEACHING ENGLISH AS A SECOND LANGUAGE 3 Credit Hours**

(Slashed with ENG 73001) The theory and methodology of teaching English as a second language.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ENG 63033 THEORIES IN SECOND LANGUAGE ACQUISITION 3 Credit Hours**

(Cross-listed with MCLS 60661) (Slashed with ENG 73033) This course surveys the major theoretical approaches to language acquisition, concentrating on second language acquisition and the relationship between acquisition/learning research and second language teaching approaches.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ENG 63034 LITERATE PRACTICES AND SOCIOLINGUISTICS 3 Credit Hours**

(Slashed with ENG 73034) Discussion of sociolinguistic approaches to understanding literacy, language in workplaces and classrooms and societal multilingualism. Survey of trends in sociolinguistic thought and method.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ENG 63038 TEACHING LITERATURE AND CULTURE 3 Credit Hours**

(Cross-listed with MCLS 60622) Students will explore theories of literature and culture teaching as well as strategies for teaching literature and culture.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ENG 63039 SECOND LANGUAGE CURRICULUM AND TESTING 3 Credit Hours**

(Cross-listed with MCLS 60663) Students will study second language curriculum and testing design and current issues, including oral proficiency testing.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ENG 63040 LINGUISTICS FOR THE LANGUAGE PROFESSIONS 3 Credit Hours**

(Cross-listed with MCLS 60601) Students will be introduced to basic linguistic issues and how these relate to the language professions. Course focuses on functional principles, especially on options to express textual, interpersonal and ideational/experiential meaning.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ENG 63041 DESCRIPTIVE GRAMMAR OF ENGLISH 3 Credit Hours**

This course provides a description of English syntax and morphology. Presentation of material will be through rules and exposure to grammatical forms in meaningful contexts.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ENG 63043 SECOND LANGUAGE WRITING 3 Credit Hours**

(Cross-listed with MCLS 60665) Theory and practice in teaching second language writing. Topics will include current and historic approaches to second language writing, approaches to tutoring international students in writing centers, teacher and peer response, error correction, and technology in second language writing instruction.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ENG 63044 SECOND LANGUAGE READING 3 Credit Hours**

(Cross-listed with MCLS 60664) Addresses a wide variety of topics related to second language reading, including theoretical perspectives, the process of learning to read, models of how reading happens, comprehension, fluency, discourse structures, strategy use, and vocabulary acquisition. Teaching issues related to second language reading will also be addressed directly, namely assessment and curriculum building.

**Prerequisite:** Graduate standing.

**Schedule Type:** Seminar

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ENG 63045 ENGLISH FOR SPECIFIC PURPOSES 3 Credit Hours**

Examination of academic, workplace, and vocational language in the design of second language instructional materials and curriculum. Discourse domains from medical to agricultural to business are analyzed through applied linguistic tools. Curriculum and instructional materials are studied and designed.

**Prerequisite:** Graduate standing.

**Schedule Type:** Seminar

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**ENG 63046 SECOND LANGUAGE LISTENING AND SPEAKING 3 Credit Hours**

Theory and practice in second language listening and speaking. Topics will include current approaches to second language speech perception and production, issues in teaching and assessing second language listening and speaking, and phonetic, phonological, and acoustic analyses for language teachers.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ENG 63047 HERITAGE LANGUAGES AND SECOND LANGUAGE LEARNING 3 Credit Hours**

(Cross-listed with MCLS 60624) Theory and practice in language education of heritage language speakers. Ethnic, minority, ancestral, and community languages and language practices will be explored with implications for second and additional language learning in English, foreign language, bilingual education.

**Prerequisite:** Graduate standing.

**Schedule Type:** Seminar

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ENG 63098 SECOND LANGUAGE RESEARCH METHODS 3 Credit Hours**

(Cross-listed with MCLS 60698) Students learn how second language research influences their teaching practices by studying research texts and recent journal articles and conducting a research project.

**Prerequisite:** Graduate standing.

**Schedule Type:** Research

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**ENG 63391 SEMINAR: LINGUISTICS 3 Credit Hours**

(Repeatable for credit) (Cross-listed with ENG 73391) In-depth treatment of various topics from modern linguistics, including phonology, morphology and various generative grammars.

**Prerequisite:** Graduate standing.

**Schedule Type:** Seminar

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**ENG 64070 WRITING POETRY 3 Credit Hours**

(Cross-listed with ENG 74070) Advanced workshop in creative writing.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ENG 64071 WRITING FICTION 3 Credit Hours**

(Slashed with ENG 74071) Advanced workshop in the writing of fiction.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ENG 65012 READING AND INTERPRETING RESEARCH ON WRITING 3 Credit Hours**

(Slashed with ENG 75012) Course focuses on how to read critically and interpret published research by examining the principle means through which 'knowledge' is constructed in writing research.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ENG 65022 RHETORICAL THEORY:GREEK AND ROMAN 3 Credit Hours**

(Slashed with ENG 75022) Course examines classical Greek and Roman rhetorical traditions and, to a lesser extent, their reappearance in contemporary rhetorical theories and composition pedagogies.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ENG 65023 RHETORICAL THEORY:18TH, 19TH AND 20TH CENTURIES 3 Credit Hours**

(Slashed with ENG 75023) Course surveys 18th-, 19th- and 20th-century developments in rhetorical theory and their influences on contemporary pedagogical and theoretical practices.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ENG 65027 ROLE OF COMPOSITION 3 Credit Hours**

(Slashed with ENG 75027) (Repeatable for maximum 6 credit hours) Study of composition's contributions to writing studies such as writing pedagogy/theory, writing technologies, assessment, process research, WAC, program administration, rhetoric and cultural studies.

**Prerequisite:** Graduate standing.

**Schedule Type:** Seminar

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter



**ENG 65035 LINGUISTICS FOR RHETORICIANS 3 Credit Hours**  
 (Slashed with ENG 75035) (Repeatable for maximum 6 credit hours)  
 Provides an introduction to linguistic theories, concepts and tools relevant to the teaching and researching of various dimensions of written texts.  
**Prerequisite:** Graduate standing.  
**Schedule Type:** Seminar  
**Contact Hours:** 3 other  
**Grade Mode:** Standard Letter

**ENG 65044 RESEARCH DESIGN 3 Credit Hours**  
 (Slashed with ENG 75044) (Repeatable for maximum 6 credit hours)  
 Introduces students to a range of research methodologies through theoretical scholarship and guided practice, culminating in a pilot research project.  
**Prerequisite:** Graduate standing.  
**Schedule Type:** Seminar  
**Contact Hours:** 3 other  
**Grade Mode:** Standard Letter

**ENG 65051 LITERACY:FUNCTIONS, PRACTICES AND HISTORY 3 Credit Hours**  
 (Slashed with ENG 75051) Introduces students to a range of research methodologies through theoretical scholarship and guided practice, culminating in a pilot research project. Course surveys and critically evaluates historical and contemporary studies of literacy in terms of three dominant metaphors ('adaptation,' 'power,' 'grace') those studies employ.  
**Prerequisite:** Graduate standing.  
**Schedule Type:** Lecture  
**Contact Hours:** 3 lecture  
**Grade Mode:** Standard Letter

**ENG 65052 WRITING ACTIVITY AS SOCIAL PRACTICE 3 Credit Hours**  
 (Slashed with ENG 75052) Through Vygotskian-based activity theory and contemporary theories of practice, course explores the rhetorical bases and implications of studying literacy and writing as embedded activity.  
**Prerequisite:** Graduate standing.  
**Schedule Type:** Lecture  
**Contact Hours:** 3 lecture  
**Grade Mode:** Standard Letter

**ENG 65053 WRITING TECHNOLOGIES 3 Credit Hours**  
 (Slashed with ENG 75053) Course critically examines theoretical and pedagogical claims concerning writing technologies and begins identifying the conceptual components of a grounded theory for technology-enhanced literacy learning.  
**Prerequisite:** Graduate standing.  
**Schedule Type:** Lecture  
**Contact Hours:** 3 lecture  
**Grade Mode:** Standard Letter

**ENG 66002 BRITISH AND IRISH LITERATURE FROM THE EARLY ROMANTICS ONWARD 3 Credit Hours**  
 (Slashed with ENG 76002) Broad, synchronic study of the literature identified with a single period in literary history embracing various genres and relating the literature to other cultural phenomena of the time.  
**Prerequisite:** Graduate standing.  
**Schedule Type:** Lecture  
**Contact Hours:** 3 lecture  
**Grade Mode:** Standard Letter

**ENG 66051 SHAKESPEARE 3 Credit Hours**  
 (Slashed with ENG 76051) Close reading of selected plays and poems by Shakespeare with some emphasis on critical and interpretative problems.  
**Prerequisite:** Graduate standing.  
**Schedule Type:** Lecture  
**Contact Hours:** 3 lecture  
**Grade Mode:** Standard Letter

**ENG 66101 LITERATURE OF THE UNITED STATES THROUGH THE CIVIL WAR 3 Credit Hours**  
 (Slashed with ENG 76101) Broad, synchronic study of U.S. literature identified with a single period in literary history embracing various genres and relating the literature to other cultural phenomena of the time.  
**Prerequisite:** Graduate standing.  
**Schedule Type:** Lecture  
**Contact Hours:** 3 lecture  
**Grade Mode:** Standard Letter

**ENG 66103 ETHNIC LITERATURE OF THE UNITED STATES 3 Credit Hours**  
 (Slashed with ENG 76103) An examination of selected fiction and theory by ethnic American authors, or of literary representations of special topics relating to ethnic and racial identity.  
**Prerequisite:** Graduate standing.  
**Schedule Type:** Lecture  
**Contact Hours:** 3 lecture  
**Grade Mode:** Standard Letter

**ENG 66104 AFRICAN-AMERICAN LITERATURE 3 Credit Hours**  
 (Slashed with ENG 76104) An examination of selected African-American fiction and theory, or of a special topic relating to literary representations of African-American culture identity or history.  
**Prerequisite:** Graduate standing.  
**Schedule Type:** Lecture  
**Contact Hours:** 3 lecture  
**Grade Mode:** Standard Letter

**ENG 66302 POST-COLONIAL LITERATURE IN ENGLISH 3 Credit Hours**  
 (Slashed with ENG 76302) An examination of selected fiction and theory in English by post-colonial authors from India, Africa, South Africa, the Caribbean and elsewhere.  
**Prerequisite:** Graduate standing.  
**Schedule Type:** Lecture  
**Contact Hours:** 3 lecture  
**Grade Mode:** Standard Letter

**ENG 66401 LITERARY MOVEMENTS 3 Credit Hours**  
 (Slashed with ENG 76401) An examination of one particular movement in literary history via its writers, artists benefactors, thinkers, political demagogues and critics.  
**Prerequisite:** Graduate standing.  
**Schedule Type:** Lecture  
**Contact Hours:** 3 lecture  
**Grade Mode:** Standard Letter

**ENG 66501 NARRATIVE LITERATURE 3 Credit Hours**  
 (Slashed with ENG 76501) Close readings of selected novels, short stories biographies autobiographies life writing journals and other forms of narrative and verse by British American and other writers in English from one or more periods in literary history.  
**Prerequisite:** Graduate standing.  
**Schedule Type:** Lecture  
**Contact Hours:** 3 lecture  
**Grade Mode:** Standard Letter



**ENG 66502 DRAMATIC LITERATURE 3 Credit Hours**

(Slashed with ENG 76502) Close reading of selected plays and other dramatic forms by writers of Britain, Ireland and the United States from one or more periods in literary history.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ENG 66592 PRACTICUM IN TUTORING WRITING 1 Credit Hour**

(Repeatable for credit) Practical training and experience in tutoring composition.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture, Practical Experience

**Contact Hours:** 1 lecture

**Grade Mode:** Standard Letter

**ENG 66595 SPECIAL TOPICS:AUTHORS AND AUTHORSHIP 3 Credit Hours**

(Repeatable for credit) (Slashed with ENG 76595) Research-based study of problems in the theory or practice of authorship. Typical courses include 'The Creative Process,' 'Authors and Printers,' 'Faulkner in Hollywood'.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ENG 66706 METHODS IN THE STUDY OF LITERATURE 3 Credit Hours**

(Slashed with ENG 76706) Analytical reading and interpretation of published research and criticism, its assumptions, trends, controversies; course will identify and contextualize present opportunities for research in field. Required for Ph.D.s specializing in Division II.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ENG 66791 SEMINAR:BRITISH AND IRISH LITERATURE 3 Credit Hours**

(Repeatable for credit) (Slashed with ENG 76791) In-depth treatment of various topics from Old English literature, Beowulf, Middle English literature and Chaucer.

**Prerequisite:** Graduate standing.

**Schedule Type:** Seminar

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**ENG 66891 SEMINAR:LITERATURE OF THE UNITED STATES 3 Credit Hours**

(Repeatable for credit) (Slashed with ENG 76891) This course will examine the construction of American identities. Writers typically discussed are Howells, Dreiser, Cahan, Anderson, Fitzgerald, Dos Passos, Wright, Baldwin, Bellow, Ikada, Jen and others. Content varies.

**Prerequisite:** Graduate standing.

**Schedule Type:** Seminar

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**ENG 66895 SPECIAL TOPICS 3 Credit Hours**

(Repeatable for credit) (Slashed with ENG 76895) Study of selected special topics in literature.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ENG 66991 SEMINAR:GENRE 3 Credit Hours**

(Repeatable for credit) (Slashed with ENG 76991) In-depth examination of one or more kinds of texts focusing on how forms are defined historically and analytically, with special attention to current approaches.

**Prerequisite:** Graduate standing.

**Schedule Type:** Seminar

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**ENG 67101 FEMINIST THEORY AND CRITICISM 3 Credit Hours**

(Slashed with ENG 77101) Study of key issues and concepts in feminist theory and criticism, including the nature, causes and effects (political, social and psychological) of certain types of representation of women and discourse practices employed by women.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ENG 67104 SOCIAL AND CULTURAL THEORY AND CRITICISM 3 Credit Hours**

(Repeatable for credit) (Slashed with ENG 77104) Study of important issues and concepts in Marxist, new historicist, ethnic, post-colonialist and other modes of social/cultural theory and criticism.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ENG 67591 SEMINAR: THEORY AND CRITICISM 3 Credit Hours**

(Repeatable for credit when topic varies) (Slashed with ENG 77591) In-depth study of important topics in contemporary theory and criticism.

**Prerequisite:** Graduate standing.

**Schedule Type:** Seminar

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**ENG 67691 SEMINAR:SCHOLARLY EDITING 3 Credit Hours**

(Repeatable for credit when topic varies) (Slashed with ENG 77691) In-depth treatment of various topics from modern scholarly editing.

**Prerequisite:** Graduate standing.

**Schedule Type:** Seminar

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**ENG 68093 VARIABLE TITLE WORKSHOP IN ENGLISH 2-6 Credit Hours**

(Repeatable for a maximum 8 credit hours) (Slashed with ENG 78093) Designed to focus on concerns of the profession/discipline to bring secondary teachers up to date on new developments in the field. Maximum for degree credit is 4 hours.

**Prerequisite:** Graduate standing.

**Schedule Type:** Workshop

**Contact Hours:** 2-6 other

**Grade Mode:** Satisfactory/Unsatisfactory

**ENG 68096 INDIVIDUAL INVESTIGATION 1-3 Credit Hours**

(Repeatable for credit) (Slashed with ENG 78096) Intensive study of selected writer or special topic.

**Prerequisite:** Graduate standing.

**Schedule Type:** Individual Investigation

**Contact Hours:** 1-3 other

**Grade Mode:** Standard Letter-IP

**ENG 68098 RESEARCH 1-15 Credit Hours**

(Repeatable for credit) Research for master's level graduate students. Credits earned may be applied toward meeting degree requirements if the department approves.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Research

**Contact Hours:** 1-15 other

**Grade Mode:** Satisfactory/Unsatisfactory

**ENG 68392 PRACTICUM IN TEACHING COLLEGE ENGLISH 3 Credit Hours**

(Repeatable for credit) (Slashed with ENG 78392) Practical training and experience in teaching beginning composition courses.

**Prerequisite:** Graduate standing.

**Schedule Type:** Practical Experience

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**ENG 68492 PRACTICUM IN TEACHING INTERNATIONAL STUDENTS 3 Credit Hours**

(Repeatable for credit) Practical training and experience in teaching English to international students in a university intensive English program. Field placement in the ESL Center requires 70 field-clinical hours. Participating classes are Monday through Friday.

**Prerequisite:** Graduate standing.

**Pre/corequisite:** ENG 63001.

**Schedule Type:** Lecture, Practical Experience

**Contact Hours:** 3 lecture, 6 other

**Grade Mode:** Standard Letter

**ENG 68592 PRACTICUM IN TEACHING P-12 ENGLISH LANGUAGE LEARNERS 3 Credit Hours**

(Repeatable for credit) Practical training and experience in teaching English to speakers of other languages in P-12 schools including 100 field-clinical hours in an assigned P-12 school.

**Prerequisite:** Graduate standing in MA TESL Education Concentration.

**Pre/corequisite:** ENG 63001.

**Schedule Type:** Field Experience

**Contact Hours:** 2 lecture, 100 other

**Grade Mode:** Standard Letter

**ENG 69199 THESIS I 2-6 Credit Hours**

Thesis students must register for a total of 6 semester hours, 2 to 6 in a single semester distributed over several semesters if desired.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Masters Thesis

**Contact Hours:** 2-6 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**ENG 69299 THESIS II 2 Credit Hours**

Thesis students must continue registration each semester until all degree requirements are met.

**Prerequisite:** ENG 69199; and graduate standing.

**Schedule Type:** Masters Thesis

**Contact Hours:** 2 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**ENG 72291 SEMINAR:BRITISH LITERATURE 1800 TO PRESENT 3 Credit Hours**

(Repeatable for credit) (Slashed with ENG 62291) In-depth treatment of various topics from the Romantic and Victorian periods and the 20th century.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Seminar

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**ENG 73001 METHODOLOGY OF TEACHING ENGLISH AS A SECOND LANGUAGE 3 Credit Hours**

(Slashed with ENG 63001) The theory and methodology of teaching English as a second language.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ENG 73033 THEORIES IN SECOND LANGUAGE ACQUISITION 3 Credit Hours**

(Slashed with ENG 63033) (Cross-listed with MCLS 60661) This course surveys the major theoretical approaches to language acquisition concentrating on second language acquisition and the relationship between acquisition learning research and second language teaching approaches.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ENG 73034 LITERATE PRACTICES AND SOCIOLINGUISTICS 3 Credit Hours**

(Slashed with ENG 63034) Discussion of sociolinguistic approaches to understanding literacy, language in workplaces and classrooms and societal multilingualism. Survey of trends in sociolinguistic thought and method.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ENG 73391 SEMINAR:LINGUISTICS 3 Credit Hours**

(Repeatable for credit) (Slashed with ENG 63391) In-depth treatment of various topics from modern linguistics, including phonology, morphology and various generative grammars.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Seminar

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**ENG 74070 WRITING POETRY 3 Credit Hours**

(Slashed with ENG 64070) Advanced workshop in creative writing.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ENG 74071 WRITING FICTION 3 Credit Hours**

(Slashed with ENG 64071) Advanced workshop in the writing of fiction.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ENG 75012 READING AND INTERPRETING RESEARCH ON WRITING 3 Credit Hours**

(Slashed with ENG 65012) Course focuses on how to read critically and interpret published research by examining the principle means through which 'knowledge' is constructed in writing research.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ENG 75022 RHETORICAL THEORY:GREEK AND ROMAN 3 Credit Hours**

(Slashed with ENG 65022) Course examines classical Greek and Roman rhetorical traditions and, to a lesser extent, their reappearance in contemporary rhetorical theories and composition pedagogies.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ENG 75023 RHETORICAL THEORY:18TH, 19TH AND 20TH CENTURIES 3 Credit Hours**

(Slashed with ENG 65023) Course surveys 18th-,19th- and 20th-century developments in rhetorical theory and their influences on contemporary pedagogical and theoretical practices.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ENG 75027 ROLE OF COMPOSITION 3 Credit Hours**

(Slashed with ENG 65027) (Repeatable for maximum 6 credit hours) Study of composition's contributions to writing studies such as writing pedagogy/theory, writing technologies, assessment, process research, WAC, program administration, rhetoric and cultural studies.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Seminar

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**ENG 75035 LINGUISTICS FOR RHETORICIANS 3 Credit Hours**

(Slashed with ENG 65035) (Repeatable for maximum 6 credit hours) Provides an introduction to linguistic theories, concepts and tools relevant to the teaching and researching of various dimensions of written texts.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Seminar

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**ENG 75044 RESEARCH DESIGN 3 Credit Hours**

(Slashed with ENG 65044) (Repeatable for maximum 6 credit hours) Introduces students to a range of research methodologies through theoretical scholarship and guided practice, culminating in a pilot research project.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Seminar

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**ENG 75051 LITERACY:FUNCTIONS, PRACTICES AND HISTORY 3 Credit Hours**

(Slashed with ENG 65051) Introduces students to a range of research methodologies through theoretical scholarship and guided practice, culminating in a pilot research project. Course surveys and critically evaluates historical and contemporary studies of literacy in terms of three dominant metaphors ('adaptation,' 'power,' 'grace') those studies employ. Prerequisite: Doctoral standing.

**Prerequisite:** graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ENG 75052 WRITING ACTIVITY AS SOCIAL PRACTICE 3 Credit Hours**

(Slashed with ENG 65052) Through Vygotskian-based activity theory and contemporary theories of practice, course explores the rhetorical bases and implications of studying literacy and writing as embedded activity.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ENG 75053 WRITING TECHNOLOGIES 3 Credit Hours**

(Cross-listed with ENG 65053) Course critically examines theoretical and pedagogical claims concerning writing technologies and begins identifying the conceptual components of a grounded theory for technology-enhanced literacy learning.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ENG 76002 BRITISH AND IRISH LITERATURE FROM THE EARLY ROMANTICS ONWARD 3 Credit Hours**

(Slashed with ENG 66002) Broad, synchronic study of the literature identified with a single period in literary history embracing various genres and relating the literature to other cultural phenomena of the time.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ENG 76051 SHAKESPEARE 3 Credit Hours**

(Slashed with ENG 66051) Close reading of selected plays and poems by Shakespeare with some emphasis on critical and interpretative problems.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ENG 76101 LITERATURE OF THE UNITED STATES THROUGH THE CIVIL WAR 3 Credit Hours**

(Slashed with ENG 66101) Broad, synchronic study of U.S. literature identified with a single period in literary history embracing various genres and relating the literature to other cultural phenomena of the time.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ENG 76103 ETHNIC LITERATURE OF THE UNITED STATES 3 Credit Hours**

(Slashed with ENG 66103) An examination of selected fiction and theory by ethnic American authors, or of literary representations of special topics relating to ethnic and racial identity.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ENG 76104 AFRICAN-AMERICAN LITERATURE 3 Credit Hours**

(Slashed with ENG 66104) An examination of selected African-American fiction and theory, or of a special topic relating to literary representations of African-American culture, identity or history.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ENG 76302 POST-COLONIAL LITERATURE IN ENGLISH 3 Credit Hours**

(Slashed with ENG 66302) An examination of selected fiction and theory in English by post-colonial authors from India, Africa, South Africa, the Caribbean and elsewhere.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ENG 76401 LITERARY MOVEMENTS 3 Credit Hours**

(Slashed with ENG 66401) An examination of one particular movement in literary history via its writers, artists, benefactors, thinkers, political demagogues and critics.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ENG 76501 NARRATIVE LITERATURE 3 Credit Hours**

(Slashed with ENG 66501) Close readings of selected novels, short stories, biographies, autobiographies, life writing, journals, and other forms of narrative and verse by British, American and other writers in English, from one or more periods in literary history.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ENG 76502 DRAMATIC LITERATURE 3 Credit Hours**

(Slashed with ENG 66502) Close reading of selected plays and other dramatic forms by writers of Britain, Ireland and the United States, from one or more periods in literary history.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ENG 76592 PRACTICUM IN TUTORING WRITING 1 Credit Hour**

(Repeatable for credit) Practical training and experience in tutoring composition.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture, Practical Experience

**Contact Hours:** 1 lecture

**Grade Mode:** Standard Letter

**ENG 76595 SPECIAL TOPICS:AUTHORS AND AUTHORSHIP 3 Credit Hours**

(Repeatable for credit) (Slashed with ENG 66595) Research-based study of problems in the theory or practice of authorship. Typical courses include 'the creative process', 'authors and printers', 'Faulkner in Hollywood'.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ENG 76706 METHODS IN THE STUDY OF LITERATURE 3 Credit Hours**

(Slashed with ENG 66706) Analytical reading and interpretation of published research and criticism, its assumptions, trends, controversies; course will identify and contextualize present opportunities for research in field. Required for Ph.D.s specializing in Division II.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ENG 76791 SEMINAR:BRITISH AND IRISH LITERATURE 3 Credit Hours**

(Repeatable for credit) (Slashed with ENG 66791) In-depth treatment of various topics from old English literature, Beowulf, Middle English literature, and Chaucer.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Seminar

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**ENG 76891 SEMINAR:LITERATURE OF THE UNITED STATES 3 Credit Hours**

(Repeatable for credit) (Slashed with ENG 66891) This course will examine the construction of American identities. Writers typically discussed are Howells, Dreiser, Cahan, Anderson, Fitzgerald, Dos Passos, Wright, Baldwin, Bellow, Ikada, Jen and others. Content varies.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Seminar

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**ENG 76895 SPECIAL TOPICS 3 Credit Hours**

(Repeatable for credit) (Slashed with ENG 66895) Study of selected special topics in literature.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ENG 76991 SEMINAR:GENRE 3 Credit Hours**

(Repeatable for credit) (Slashed with ENG 66991) In-depth examination of one or more kinds of texts focusing on how forms are defined historically and analytically, with special attention to current approaches.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Seminar

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**ENG 77101 FEMINIST THEORY AND CRITICISM 3 Credit Hours**  
(Slashed with ENG 67101) Study of key issues and concepts in feminist theory and criticism, including the nature, causes and effects (political, social and psychological) of certain types of representation of women and discourse practices employed by women.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ENG 77104 SOCIAL AND CULTURAL THEORY AND CRITICISM 3 Credit Hours**

(Repeatable for credit) (Slashed with ENG 67104) Study of important issues and concepts in Marxist, new historicist, ethnic, post-colonialist and other modes of social cultural theory and criticism.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ENG 77591 SEMINAR:THEORY AND CRITICISM 3 Credit Hours**

(Repeatable for credit) (Slashed with ENG 67591) In-depth study of important topics in contemporary theory and criticism.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Seminar

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**ENG 77691 SEMINAR:SCHOLARLY EDITING 3 Credit Hours**

(Repeatable for credit when topic varies) (Slashed with ENG 67691) In-depth treatment of various topics from modern scholarly editing.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Seminar

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**ENG 78093 VARIABLE TITLE WORKSHOP IN ENGLISH 2-6 Credit Hours**

(Repeatable for a maximum of 8 credit hours) (Cross-listed with ENG 68093) Designed to focus on concerns of the profession/discipline to bring secondary teachers up to date on new developments in the field. Maximum for degree credit is 4 hours.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Workshop

**Contact Hours:** 2-6 other

**Grade Mode:** Satisfactory/Unsatisfactory

**ENG 78096 INDIVIDUAL INVESTIGATION 1-3 Credit Hours**

(Repeatable for credit) (Slashed with ENG 68096) Intensive study of selected writer or special topic.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Individual Investigation

**Contact Hours:** 1-3 other

**Grade Mode:** Standard Letter-IP

**ENG 78392 PRACTICUM IN TEACHING COLLEGE ENGLISH 3 Credit Hours**

(Repeatable for credit) (Slashed with ENG 68392) Practical training and experience in teaching beginning composition courses.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Practical Experience

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**ENG 85024 DOMAIN RHETORICS AND THE CONSTRUCTION OF KNOWLEDGE 3 Credit Hours**

(Repeatable twice for credit) Course examines disciplinarity and knowledge production as historically and socially situated practices and how they are realized through linguistic, rhetorical and material processes and systems.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ENG 85025 THEORIES AND SYSTEMS OF WRITING AND REPRESENTATION 3 Credit Hours**

Course examines the history and use of scripts and other means of constructing shared meaning and the attendant contemporary issues concerning writing and representation.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ENG 85033 THE RHETORICAL NATURE AND FUNCTION OF EXTENDED DISCOURSE 3 Credit Hours**

Examines discourse as a rhetorical and socio-political practice that extends beyond the temporal and material boundaries of individual texts by considering how discursive practice is embedded within, sustains, and modifies other social, cultural, and political practices.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ENG 85041 FIELD RESEARCH METHODS IN WRITING 3 Credit Hours**

Course focuses on qualitative methods for conducting field research in writing within communities of practice and particular contexts and for analyzing and interpreting data.

**Prerequisite:** 9 credit hours from the following courses: ENG 75012, ENG 75022, ENG 75023, ENG 73034, ENG 75051, ENG 75052, ENG 75053; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ENG 85042 DISCOURSE ANALYSIS 3 Credit Hours**

Explores various approaches to discourse analysis (e.g., critical discourse analysis, narrative theory, systemic functional linguistics) and teaches students how to use them to conduct linguistic analyses of discourse.

We will examine discourse in terms of the key functions language serves as a form of social action: to represent the world, to invoke and create social relationships, interactions, and identities, and to organize utterances into meaningful discursive events and products.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ENG 85054 STUDIES IN LITERACY AND COMMUNITY 3 Credit Hours**

Course expands on ENG 75052 by examining in more detail how literacy is embedded in the activities and practices of academic, civic and professional communities.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter



**ENG 85055 THE NATURE AND RELATIONSHIP OF ACADEMIC AND NONACADEMIC LITERACY 3 Credit Hours**

Course explores the relationship between academic and non-academic literacy, focusing on relationships pertaining to the school-to-work transitions that students make.

**Prerequisite:** Doctoral standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ENG 85056 INTRODUCTION TO THE STUDY OF WRITING ASSESSMENT: RESEARCH, THEORY AND PRACTICE 3 Credit Hours**

Provides students with an introduction to the theory, research, and practice of writing assessment outside the classroom, as it is informed through the study of the literatures of college writing assessment and educational measurement. In addition to acquiring a basic understanding of measurement principles like reliability and validity for assessing student writing, students can complete projects of their own design for their own institutions.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ENG 85057 RHETORICAL METHODS 3 Credit Hours**

Focuses on methodological practices associated with rhetorical theory and considers the epistemological and ontological underpinnings of these theories' methodologies. Course investigates how these theories know and what they deem worth knowing. The course is designed around several significant approaches to analysis, both classical and contemporary. This orientation is intended to offer background and prompt students to apply those rhetorical methodologies in their own work.

**Prerequisite:** 6 credit hours from ENG 75012, ENG 75022, ENG 75023; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ENG 85060 DIRECTED READINGS IN WRITING AND RHETORIC 3 Credit Hours**

Topics covered will vary according to the needs of students demonstrating deficiency in qualifying exams and/or requiring additional work before undertaking a dissertation project.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ENG 88098 RESEARCH DOCTORAL 1-15 Credit Hours**

(Repeatable for credit) Research or individual investigation for doctoral students who have not yet passed candidacy examination. Credits earned may be applied toward degree if department approves.

**Prerequisite:** Graduate standing; and special approval of the graduate chairman.

**Schedule Type:** Research

**Contact Hours:** 1-15 other

**Grade Mode:** Satisfactory/Unsatisfactory

**ENG 89199 DISSERTATION I 15 Credit Hours**

(Repeatable for credit) Doctoral dissertation, for which registration in two semesters is required first of which will be the semester in which dissertation work is begun and continuing until completion of 30 hours.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Dissertation

**Contact Hours:** 15 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**ENG 89299 DISSERTATION II 15 Credit Hours**

(Repeatable for credit) Continuing registration required of doctoral students who have completed the initial 30 hours of dissertation and continuing until all degree requirements are met.

**Prerequisite:** ENG 89199; and doctoral standing.

**Schedule Type:** Dissertation

**Contact Hours:** 15 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

## Creative Writing - M.F.A.

**College of Arts and Sciences**

Department of English

113 Satterfield Hall

Kent Campus

330-672-2676

english@kent.edu

www.kent.edu/english

## Description

The Master of Fine Arts degree in Creative Writing is a consortium program between State Kent and three other universities (University of Akron, Cleveland State University and Youngstown State University) that allows students to take advantage of collaboration with an award-winning 15-member faculty and to concentrate in the writing of poetry, fiction, creative non-fiction and playwriting. The number and variety of the faculty guarantee consistent individual attention to student work. The range of study gives students opportunities to take classes with other writers from different backgrounds and in different genres. An annual series of readings and visiting writers in all genres supports the regular curricular offerings.

Selected students attend special summer programs, such as the Juniper Seminars in Massachusetts and the Imagination Conference in Cleveland; many students attend the annual AWP (Association of Writers and Writing Programs) conference representing the consortium, or publish in journals and presses associated with the program.

### Fully Offered At:

- Kent Campus

## Admission Requirements

- Bachelor's degree from an accredited college or university for unconditional admission
- Minimum 3.000 undergraduate GPA on a 4.000 point scale for unconditional admission
- Official transcript(s)
- Three letters of recommendation

- English language proficiency - all international students must provide proof of English language proficiency (unless they meet specific exceptions) by earning one of the following:
  - Minimum 587 TOEFL PBT score (paper-based version)
  - Minimum 94 TOEFL IBT score (Internet-based version)
  - Minimum 82 MELAB score
  - Minimum 7.0 IELTS score
  - Minimum 65 PTE score
  - Minimum 120 Duolingo English Test score

**Applicants must apply to both the NEOMFA consortium and Kent State University.** For more information on admission to the consortium, please visit the NEOMFA website.

For more information about graduate admissions, please visit the Graduate Studies admission website. For more information on international admission, visit the Office of Global Education's admission website.

## Program Learning Outcomes

Graduates of this program will be able to:

1. Critique creative literary works in a workshop environment.
2. Critique and revise their own material.
3. Create a high quality publishable work of poetry, fiction, creative non-fiction, drama, or literary translation.
4. Demonstrate knowledge of a wide range of theories and practices of creative writing and the creative process.
5. Develop skills in creative writing in real world job situations.

## Program Requirements

### Major Requirements

Code	Title	Credit Hours
<b>Major Requirements</b>		
	Writing Workshops	15
	Craft and Theory courses	9
	Literature courses	6
	Internship <sup>1</sup>	3
	Electives	9
ENG 69199	THESIS I <sup>2</sup>	6
Minimum Total Credit Hours:		48

<sup>1</sup> The internship must be in a teaching, editing or arts administration setting.

<sup>2</sup> The thesis must be submitted according to the general requirements established by the Division of Graduate Studies. The student is required to defend the thesis in an oral presentation before a committee of graduate faculty from a minimum of two consortium schools.

## Creative Writing - Minor

### College of Arts and Sciences

Department of English  
113 Satterfield Hall  
Kent Campus  
330-672-2676  
english@kent.edu

www.kent.edu/english

The Creative Writing minor encourages the development of creative work in a variety of literary modes and genres. Students gain practice in editing, peer critique, and revision within small workshop classes and seminars.

### Fully Offered At:

- Ashtabula Campus
- East Liverpool Campus
- Geauga Campus
- Kent Campus
- Salem Campus
- Stark Campus
- Trumbull Campus
- Tuscarawas Campus
- Twinsburg Academic Center

## Admission Requirements

Admission to a minor is open to students declared in a bachelor's degree, the A.A.B. or A.A.S. degree or the A.T.S. degree (not Individualized Program major). Students declared only in the A.A. or A.S. degree or the A.T.S. degree in Individualized Program may not declare a minor. Students may not pursue a minor and a major in the same discipline.

## Minor Requirements

Code	Title	Credit Hours
<b>Minor Requirements</b>		
ENG 20021	INTRODUCTION TO CREATIVE WRITING	3
ENG 30067	FICTION WRITING I <sup>1</sup>	3
or ENG 30069	POETRY WRITING I	
Writing Electives, choose from the following:		9
ENG 30067	FICTION WRITING I	
ENG 30068	FICTION WRITING II	
ENG 30069	POETRY WRITING I	
ENG 30070	POETRY WRITING II	
ENG 30071	CREATIVE NONFICTION	
ENG 30072	EDITING AND PUBLISHING I	
ENG 38895	SPECIAL TOPICS IN WRITING	
ENG 43092	TEACHING POETRY IN THE SCHOOLS (ELR)	
JMC 20004	ADVERTISING WRITING AND STORYTELLING	
PAS 22000	CREATIVE WRITING IN THE BLACK WORLD	
THEA 41026	PLAYWRITING (WIC)	
Cognate Electives, choose from the following: <sup>2</sup>		6
ENG 22073	MAJOR MODERN WRITERS: BRITISH AND UNITED STATES (KHUM)	
ENG 30074	GRAMMAR FOR EDITING	
ENG 32001	CHILDREN'S LITERATURE	
ENG 32002	LITERATURE FOR YOUNG ADULTS	
ENG 34031	SHORT STORY	
ENG 34041	FAIRY TALES	
ENG 42092	WRITING INTERNSHIP (ELR) <sup>3</sup>	
JMC 20001	MEDIA, POWER AND CULTURE (DIVD) (KSS)	
PHIL 31060	PHILOSOPHY OF ART AND BEAUTY (ELR)	

PHIL 41080	PHILOSOPHY AND ART: 1890 - PRESENT
Minimum Total Credit Hours:	21

- <sup>1</sup> The course not selected (ENG 30067 or ENG 30069) may be taken to fulfill a Writing Electives.
- <sup>2</sup> Students may apply to the chair of the English Department for permission to use special topics courses and other appropriate courses not listed in the curriculum to satisfy the cognate requirements. In addition, students in the College of the Arts may request that specific courses in art, art history, music and theater be accepted as meeting the cognate area requirements. Students in the College of Communication and Information may request that specific courses in communication studies and journalism and mass communication be accepted as meeting the cognate area requirements.
- <sup>3</sup> Though offered for variable credit, students pursuing the minor should take 3 credit hours of ENG 42092.

## Graduation Requirements

Minimum Minor GPA	Minimum Overall GPA
2.000	2.000

- Students must complete at least two upper-division (30000 or 40000 level) courses in the minor at Kent State on a graded basis (A-F).
- Students who wish to complete a longer project or prepare a portfolio for graduate school or for a job application, may request to be enrolled in ENG 40099 for two additional credit hours of individualized work.
- Minimum 6 credit hours in the minor must be upper-division coursework (30000 and 40000 level).
- Minimum 6 credit hours in the minor must be outside of the course requirements for any major or other minor the student is pursuing.
- Minimum 50 percent of the total credit hours for the minor must be taken at Kent State (in residence).

## English - B.A.

### College of Arts and Sciences

Department of English  
113 Satterfield Hall  
Kent Campus  
330-672-2676  
english@kent.edu  
www.kent.edu/english

## Description

The Bachelor of Arts degree in English prepares students to be insightful readers and innovative writers. Students are introduced to literary traditions and critical methods through core courses and encouraged to pursue personal interests in the selection of a concentration and elective courses. English classes challenge students to develop reading, research and writing skills that will equip them for a wide range of careers.

Students have opportunities in extracurricular organizations, including the English Club, Sigma Tau Delta and the Writer's Workshops; as well as such student publications as the literary arts magazine *Luna Negra*.

Students are encouraged to study abroad, engage in undergraduate research, commit to service-learning and complete a writing internship.

English students may apply early to the M.A. degree in English and double count 9 credit hours of graduate courses toward both degree programs. See the Combined Bachelor's/Master's Degree Program policy in the University Catalog for more information.

The English major comprises the following concentrations:

- The **General** concentration allows students to combine elective choices in creative writing, professional writing, rhetoric, historical literature, genre studies and literary theory based on personal interest.
- The **Literature** concentration emphasizes the interpretation of literary texts drawn from a variety of historical and cultural contexts. Students develop an understanding of genre conventions and different theoretical and critical methods of analysis.
- The **Professional Writing** concentration offers courses in professional writing, editing, and rhetoric. The concentration requires a professional experience elective fulfilled by an internship, service-learning placement or an advanced course in editing.

## Fully Offered At:

- Ashtabula Campus
- East Liverpool Campus
- Geauga Campus
- Kent Campus
- Salem Campus
- Stark Campus
- Trumbull Campus
- Tuscarawas Campus

## Admission Requirements

The university affirmatively strives to provide educational opportunities and access to students with varied backgrounds, those with special talents and adult students who graduated from high school three or more years ago.

**Freshman Students on the Kent Campus:** The freshman admission policy on the Kent Campus is selective. Admission decisions are based upon the following: cumulative grade point average, ACT and/or SAT scores, strength of high school college preparatory curriculum and grade trends. The Admissions Office at the Kent Campus may defer the admission of students who do not meet admissions criteria but who demonstrate areas of promise for successful college study. Deferred applicants may begin their college coursework at one of seven regional campuses of Kent State University. For more information on admissions, including additional requirements for some academic programs, visit the admissions website for new freshmen.

**Freshman Students on the Regional Campuses:** Kent State campuses at Ashtabula, East Liverpool, Geauga, Salem, Stark, Trumbull and Tuscarawas, as well as the Regional Academic Center in Twinsburg, have open enrollment admission for students who hold a high school diploma, GED or equivalent.

**English Language Proficiency Requirements for International Students:** All international students must provide proof of English language proficiency (unless they meet specific exceptions) by earning a minimum 525 TOEFL score (71 on the Internet-based version), minimum 75

MELAB score, minimum 6.0 IELTS score or minimum 48 PTE score, or by completing the ESL level 112 Intensive Program. For more information on international admission, visit the Office of Global Education's admission website.

**Transfer, Transitioning and Former Students:** For more information about admission criteria for transfer, transitioning and former students, please visit the admissions website.

## Program Learning Outcomes

Graduates of this program will be able to:

1. Demonstrate specialized knowledge and skills in literary studies or professional writing.
2. Know research tools and methods appropriate for the academic study of literature, rhetoric or writing.
3. Understand and apply a variety of critical theories to the study of literature, rhetoric or writing.
4. Produce academic, creative or professional writing with attention to appropriate genre conventions, format and citation guidelines, stylistic expectations and grammatical rules.
5. Complete a long written project with the application of appropriate critical, creative or professional approaches; mastery of research methods and resources; and awareness of audience, rhetorical context and discourse functions.

## University Requirements

All students in a bachelor's degree program at Kent State University must complete the following university requirements for graduation.

**NOTE:** University requirements may be fulfilled in this program by specific course requirements. Please see Program Requirements for details.

Destination Kent State: First Year Experience	1
Course is not required for students with 25 transfer credits, excluding College Credit Plus, or age 21+ at time of admission.	
Diversity Domestic/Global (DIVD/DIVG)	2 courses
Students must successfully complete one domestic and one global course, of which one must be from the Kent Core.	
Experiential Learning Requirement (ELR)	varies
Students must successfully complete one course or approved experience.	
Kent Core (see table below)	36-37
Writing-Intensive Course (WIC)	1 course
Students must earn a minimum C grade in the course.	
Upper-Division Requirement	39 (or 42)
Students must successfully complete 39 upper-division (numbered 30000 to 49999) credit hours to graduate. Students in a B.A. and/or B.S. degree in the College of Arts and Sciences must complete 42 upper-division credit hours.	
Total Credit Hour Requirement	120
Some bachelor's degrees require students to complete more than 120 credit hours.	

## Kent Core Requirements

Kent Core Composition (KCMP)	6
Kent Core Mathematics and Critical Reasoning (KMCR)	3
Kent Core Humanities and Fine Arts (KHUM/KFA) (min one course each)	9

Kent Core Social Sciences (KSS) (must be from two disciplines)	6
Kent Core Basic Sciences (KBS/KLAB) (must include one laboratory)	6-7
Kent Core Additional (KADL)	6
<b>Total Credit Hours:</b>	<b>36-37</b>

## Program Requirements

### Major Requirements

Code	Title	Credit Hours
<b>Major Requirements (courses count in major GPA)</b>		
ENG 24001	INTRODUCTION TO LITERARY STUDY	3
ENG 25001	LITERATURE IN ENGLISH I <sup>1</sup>	3
or ENG 25004	LITERATURE IN THE UNITED STATES I	
ENG 25002	LITERATURE IN ENGLISH II <sup>1</sup>	3
or ENG 25005	LITERATURE IN THE UNITED STATES II	
ENG 38001	CRITICAL THEORY AND READING	3
or ENG 38002	RHETORIC AND WRITING STUDIES	
ENG 49091	SENIOR SEMINAR (ELR) (WIC) <sup>2</sup>	3
English (ENG) Electives (20000, 30000 and 40000 levels) <sup>1,3</sup>		6

### Additional Requirements (courses do not count in the major GPA)

UC 10097	DESTINATION KENT STATE: FIRST YEAR EXPERIENCE	1
Foreign Language (see Foreign Language College Requirement below)		14-16
College General Requirements (must be from Kent Core Basic Sciences) <sup>4</sup>		3
College General Requirements (must be from Kent Core Social Sciences) <sup>5</sup>		3
Kent Core Composition		6
Kent Core Mathematics and Critical Reasoning		3
Kent Core Humanities and Fine Arts (minimum one course from each) <sup>1</sup>		9
Kent Core Social Sciences (must be from two disciplines)		6
Kent Core Basic Sciences (must include one laboratory)		6-7
Kent Core Additional		6
General Electives (total credit hours depends on earning 120 credit hours, including 42 upper-division credit hours)		24
<b>Concentrations</b>		
Choose from the following:		18
General		
Literature		
Professional Writing		

Minimum Total Credit Hours: 120

<sup>1</sup> Maximum 15 credit hours of lower-division English courses (ENG 10000 or 20000 level) will count toward the major. They may include the following Kent Core courses: ENG 21002, ENG 21003, ENG 21054, ENG 22071, ENG 22072, ENG 22073 (or ENG 21001).

<sup>2</sup> A minimum C grade must be earned to fulfill the writing-intensive requirement.

<sup>3</sup> The following courses will not fulfill the English Elective: ENG 21011, ENG 41009, ENG 41092, ENG 41192, ENG 41292 and any ENG 10000-level course.

<sup>4</sup> One additional course taken from the Kent Core Basic Science courses in the following Arts and Sciences disciplines: Anthropology (ANTH), Biological Sciences (BSCI), Chemistry (CHEM), Geography (GEOG), Geology (GEOL) or Physics (PHY). The course may not be from the student's major.

<sup>5</sup> One additional course taken from the Kent Core Social Sciences courses in the following Arts and Sciences disciplines: Anthropology (ANTH), Geography (GEOG), Criminology and Justice Studies (CRIM), Peace and Conflict Studies (PACS), Political Science (POL), Psychology (PSYC) or Sociology (SOC). The course may not be from the student's major.

## General Concentration Requirements

Code	Title	Credit Hours
<b>Concentration Requirements (courses count in major GPA)</b>		
Writing, Rhetoric and Linguistics Electives, choose from the following:		6
ENG 20002	INTRODUCTION TO TECHNICAL WRITING	
ENG 20021	INTRODUCTION TO CREATIVE WRITING	
ENG 24002	INTRODUCTION TO COMPOSITION THEORY	
ENG 30050	WRITING AND RHETORIC IN A DIGITAL AGE	
ENG 30051	WRITING, RHETORIC AND NEW MEDIA	
ENG 30052	MEDICAL AND SCIENTIFIC WRITING	
ENG 30062	PRINCIPLES OF TECHNICAL WRITING	
ENG 30063	PROFESSIONAL WRITING	
ENG 30064	ARGUMENTATIVE PROSE WRITING	
ENG 30065	EXPOSITORY PROSE WRITING	
ENG 30066	WRITING IN THE PUBLIC SPHERE (ELR)	
ENG 30067	FICTION WRITING I	
ENG 30068	FICTION WRITING II	
ENG 30069	POETRY WRITING I	
ENG 30070	POETRY WRITING II	
ENG 30071	CREATIVE NONFICTION	
ENG 30072	EDITING AND PUBLISHING I	
ENG 30073	EDITING AND PUBLISHING II	
ENG 30074	GRAMMAR FOR EDITING	
ENG 31001	FUNDAMENTAL ENGLISH GRAMMAR	
ENG 31002	HISTORY OF THE ENGLISH LANGUAGE	
ENG 31003	LINGUISTICS	
ENG 31004	LEXICOLOGY/LEXICOGRAPHY	
ENG 31006	WORLD ENGLISHES (DIVG) (WIC)	
ENG 31012	GENDER AND LANGUAGE	
ENG 31095	SPECIAL TOPICS IN LINGUISTICS	
ENG 37101	CRITICAL RHETORICAL STUDIES OF TEXTS IN CONTEXT	
ENG 38895	SPECIAL TOPICS IN WRITING	
ENG 39895	SPECIAL TOPICS IN RHETORIC, COMPOSITION AND WRITING	
ENG 41194	TUTORING OF WRITING	
ENG 42092	WRITING INTERNSHIP (ELR)	
ENG 42192	SERVICE LEARNING IN ENGLISH STUDIES (ELR)	
ENG 43092	TEACHING POETRY IN THE SCHOOLS (ELR)	
Historical Literature-Early Period Elective, choose from the following:		3
ENG 33001	U.S. LITERATURE TO 1865	
ENG 33010	AFRICAN-AMERICAN LITERATURE TO 1900	
ENG 34001	MEDIEVAL LITERATURE	

ENG 34002	BRITISH LITERATURE, 1500-1660	
ENG 34055	SHAKESPEARE	
ENG 34065	CHAUCER	
ENG 34090	SHAKESPEARE IN PERFORMANCE	
ENG 37001	CLASSICAL RHETORIC	
Historical Literature-Modern Period Elective, choose from the following:		3
ENG 33002	U.S. LITERATURE FROM 1865 TO 1945	
ENG 33003	U.S. LITERATURE FROM 1945 TO PRESENT	
ENG 33012	MODERN AFRICAN-AMERICAN LITERATURE	
ENG 34003	BRITISH LITERATURE, 1660-1800	
ENG 34004	BRITISH LITERATURE, 1800-1900	
ENG 34005	BRITISH AND IRISH LITERATURE, 1900-PRESENT	
ENG 34095	SPECIAL TOPICS:MAJOR AUTHOR STUDIES	
ENG 39095	SPECIAL TOPICS IN LITERARY HISTORY	
Genre Studies, Cultural Studies, Literary Theory Electives, choose from the following:		6
ENG 21001	INTRODUCTION TO ETHNIC LITERATURE OF THE UNITED STATES (DIVD)	
ENG 21002	INTRODUCTION TO WOMEN'S LITERATURE (DIVD)	
ENG 21003	INTRODUCTION TO LGBT LITERATURE (DIVD)	
ENG 32001	CHILDREN'S LITERATURE	
ENG 32002	LITERATURE FOR YOUNG ADULTS	
ENG 33013	PAN-AFRICAN WOMEN'S LITERATURE (DIVG)	
ENG 33014	AFRICAN-AMERICAN WOMEN'S LITERATURE	
ENG 33015	AFRICAN LITERATURES (DIVG)	
ENG 34011	WORLD LITERATURE IN ENGLISH (DIVG)	
ENG 34021	WOMEN'S LITERATURE (DIVD)	
ENG 34031	SHORT STORY	
ENG 34041	FAIRY TALES	
ENG 35101	LITERATURE AND OTHER DISCIPLINES	
ENG 35201	THE BIBLE AS LITERATURE	
ENG 35301	LESBIAN, GAY, BISEXUAL AND TRANSGENDER: CRITICAL PERSPECTIVES (DIVD)	
ENG 35401	SCIENCE FICTION	
ENG 36001	APPLIED LITERARY CRITICISM	
ENG 39195	SPECIAL TOPICS IN DRAMA	
ENG 39295	SPECIAL TOPICS IN POETRY	
ENG 39395	SPECIAL TOPICS IN FICTION	
ENG 39495	SPECIAL TOPICS IN COMPARATIVE LITERATURE	
ENG 39695	SPECIAL TOPICS IN ETHNIC LITERATURE OF THE UNITED STATES	
ENG 39795	SPECIAL TOPICS IN WOMEN'S LITERATURE	
ENG 39995	SPECIAL TOPICS CULTURAL STUDIES	

Minimum Total Credit Hours: 18

## Literature Concentration Requirements

Code	Title	Credit Hours
<b>Concentration Requirements (courses count in major GPA)</b>		
Historical Literature-Early Period Elective, choose from the following:		3
ENG 33001	U.S. LITERATURE TO 1865	
ENG 33010	AFRICAN-AMERICAN LITERATURE TO 1900	
ENG 34001	MEDIEVAL LITERATURE	
ENG 34002	BRITISH LITERATURE, 1500-1660	



ENG 34055	SHAKESPEARE	
ENG 34065	CHAUCER	
ENG 34090	SHAKESPEARE IN PERFORMANCE	
ENG 37001	CLASSICAL RHETORIC	
Historical Literature-Modern period Elective, choose from the following:		3
ENG 33002	U.S. LITERATURE FROM 1865 TO 1945	
ENG 33003	U.S. LITERATURE FROM 1945 TO PRESENT	
ENG 33012	MODERN AFRICAN-AMERICAN LITERATURE	
ENG 34003	BRITISH LITERATURE, 1660-1800	
ENG 34004	BRITISH LITERATURE, 1800-1900	
ENG 34005	BRITISH AND IRISH LITERATURE, 1900-PRESENT	
Historical Literature-Topics Elective, choose from the following:		3
ENG 34095	SPECIAL TOPICS:MAJOR AUTHOR STUDIES	
ENG 39095	SPECIAL TOPICS IN LITERARY HISTORY	
Course from Historical Literature-Early Period elective list		
Course from Historical Literature-Modern Period elective list		
Genre Studies, Cultural Studies, Literary Theory Electives, choose from the following:		9
ENG 21001	INTRODUCTION TO ETHNIC LITERATURE OF THE UNITED STATES (DIVD)	
ENG 21002	INTRODUCTION TO WOMEN'S LITERATURE (DIVD)	
ENG 21003	INTRODUCTION TO LGBT LITERATURE (DIVD)	
ENG 32001	CHILDREN'S LITERATURE	
ENG 32002	LITERATURE FOR YOUNG ADULTS	
ENG 33013	PAN-AFRICAN WOMEN'S LITERATURE (DIVG)	
ENG 33014	AFRICAN-AMERICAN WOMEN'S LITERATURE	
ENG 33015	AFRICAN LITERATURES (DIVG)	
ENG 34011	WORLD LITERATURE IN ENGLISH (DIVG)	
ENG 34021	WOMEN'S LITERATURE (DIVD)	
ENG 34031	SHORT STORY	
ENG 34041	FAIRY TALES	
ENG 35101	LITERATURE AND OTHER DISCIPLINES	
ENG 35201	THE BIBLE AS LITERATURE	
ENG 35301	LESBIAN, GAY, BISEXUAL AND TRANSGENDER: CRITICAL PERSPECTIVES (DIVD)	
ENG 35401	SCIENCE FICTION	
ENG 36001	APPLIED LITERARY CRITICISM	
ENG 39195	SPECIAL TOPICS IN DRAMA	
ENG 39295	SPECIAL TOPICS IN POETRY	
ENG 39395	SPECIAL TOPICS IN FICTION	
ENG 39495	SPECIAL TOPICS IN COMPARATIVE LITERATURE	
ENG 39695	SPECIAL TOPICS IN ETHNIC LITERATURE OF THE UNITED STATES	
ENG 39795	SPECIAL TOPICS IN WOMEN'S LITERATURE	
ENG 39995	SPECIAL TOPICS CULTURAL STUDIES	
Minimum Total Credit Hours:		18

## Professional Writing Concentration Requirements

Code	Title	Credit Hours
<b>Concentration Requirements (courses count in major GPA)</b>		
ENG 30072	EDITING AND PUBLISHING I	3
or ENG 30074	GRAMMAR FOR EDITING	
Writing Electives, choose from the following:		9

ENG 20002	INTRODUCTION TO TECHNICAL WRITING	
ENG 30050	WRITING AND RHETORIC IN A DIGITAL AGE	
ENG 30051	WRITING, RHETORIC AND NEW MEDIA	
ENG 30052	MEDICAL AND SCIENTIFIC WRITING	
ENG 30062	PRINCIPLES OF TECHNICAL WRITING	
ENG 30063	PROFESSIONAL WRITING	
ENG 30064	ARGUMENTATIVE PROSE WRITING	
ENG 30065	EXPOSITORY PROSE WRITING	
ENG 38895	SPECIAL TOPICS IN WRITING	
Professional Experience Elective, choose from the following:		3
ENG 30066	WRITING IN THE PUBLIC SPHERE (ELR)	
ENG 30073	EDITING AND PUBLISHING II	
ENG 41194	TUTORING OF WRITING	
ENG 42092	WRITING INTERNSHIP (ELR)	
ENG 42192	SERVICE LEARNING IN ENGLISH STUDIES (ELR)	
Rhetoric and Linguistics Elective, choose from the following:		3
ENG 24002	INTRODUCTION TO COMPOSITION THEORY	
ENG 31001	FUNDAMENTAL ENGLISH GRAMMAR	
ENG 31003	LINGUISTICS	
ENG 31012	GENDER AND LANGUAGE	
ENG 31095	SPECIAL TOPICS IN LINGUISTICS	
ENG 37001	CLASSICAL RHETORIC	
ENG 37101	CRITICAL RHETORICAL STUDIES OF TEXTS IN CONTEXT	
ENG 39895	SPECIAL TOPICS IN RHETORIC, COMPOSITION AND WRITING	
Minimum Total Credit Hours:		18

## Graduation Requirements

Minimum Major GPA	Minimum Overall GPA
2.000	2.000

## Foreign Language College Requirement

Students pursuing the Bachelor of Arts degree in the College of Arts and Sciences must complete 14-16 credit hours of foreign language.<sup>1</sup>

To complete the requirement, students have the equivalent of Elementary I and II in any language, plus one of the following options:

1. Intermediate I and II of the same language<sup>2</sup>
2. Elementary I and II of a second language
3. Any combination of two courses from the following list:

- Intermediate I of the same language
- MCLS 10001 INTRODUCTION TO STRUCTURAL CONCEPTS FOR LANGUAGE STUDENTS
- MCLS 20091 VARIABLE CONTENT SEMINAR IN GLOBAL LITERACY: CASE STUDIES
- MCLS 21417 MULTICULTURALISM IN TODAY'S GERMANY (DIVG)
- MCLS 28404 THE LATIN AMERICAN EXPERIENCE (DIVG)

- <sup>1</sup> All students with prior foreign language experience should take the foreign language placement test to determine the appropriate level at which to start. Some students may begin beyond the Elementary I level and will complete the requirement with fewer credit hours and fewer courses. This may be accomplished by (1) passing a course beyond Elementary I through Intermediate II level; (2) receiving credit through Credit by Exam (CBE), Advanced Placement (AP), International Baccalaureate (IB) or College Level Examination Program (CLEP); or (3) being designated a 'native speaker' of a non-English language (consult with the College of Arts and Sciences Advising Office for additional information). When students complete the requirement with fewer than 14 credit hours and four courses, they will complete remaining credit hours with general electives.
- <sup>2</sup> Certain majors, concentrations and minors may require specific languages, limit the languages from which a student may choose or require coursework through Intermediate II. Students who plan to pursue graduate study may need particular language coursework.

## Roadmap

This roadmap is a recommended semester-by-semester plan of study for this major. However, courses designated as critical (!) must be completed in the semester listed to ensure a timely graduation.

Semester One		Credits
ENG 24001	INTRODUCTION TO LITERARY STUDY	3
UC 10097	DESTINATION KENT STATE: FIRST YEAR EXPERIENCE	1
Foreign Language		4
Kent Core Requirement		3
Kent Core Requirement		3
Credit Hours		14
Semester Two		Credits
ENG 25001	LITERATURE IN ENGLISH I or or LITERATURE IN THE UNITED STATES I	3
ENG 25004		
Foreign Language		4
Kent Core Requirement		3
Kent Core Requirement		3
Kent Core Requirement		3
Credit Hours		16
Semester Three		Credits
ENG 25002	LITERATURE IN ENGLISH II or or LITERATURE IN THE UNITED STATES II	3
ENG 25005		
Foreign Language		3
Kent Core Requirement		3
Kent Core Requirement		3
Kent Core Requirement		3
Credit Hours		15
Semester Four		Credits
Concentration Elective		3
Foreign Language		3
Kent Core Requirement		3
Kent Core Requirement		3
Kent Core Requirement		3
Credit Hours		15
Semester Five		Credits
ENG 38001	CRITICAL THEORY AND READING or or RHETORIC AND WRITING STUDIES	3
ENG 38002		
Concentration Elective		3
College General Requirements		3
Kent Core Requirement		3
General Elective		3
Credit Hours		15
Semester Six		Credits
Concentration Elective		6
College General Requirement		3
General Elective		6
Credit Hours		15
Semester Seven		Credits
ENG 49091	SENIOR SEMINAR (ELR) (WIC)	3
English Electives		6
General Electives		6
Credit Hours		15

### Semester Eight

Concentration Elective	6
General Electives	9
Credit Hours	15
Minimum Total Credit Hours:	120

## English - M.A.

### College of Arts and Sciences

Department of English  
113 Satterfield Hall  
Kent Campus  
330-672-2676  
english@kent.edu  
www.kent.edu/english

## Description

The Master of Arts degree in English offers students broad learning in English studies while providing concentrated study in one area. The English major comprises the following concentrations:

The **Concentration for Teachers** is for educators interested in advanced study of literature and writing. Coursework focuses on current scholarship and approaches to literature and writing. While not a degree in literary and composition pedagogy, the concentration is designed to encourage the application of current literary and writing research to the work responsibilities of the practicing teacher.

The **Literature and Writing** concentration prepares students for further graduate study in English and related fields, for professional training in such fields as library and information science, and for careers in teaching. The program achieves this goal with distribution requirements, electives and a required focus in either literary traditions, critical theory or rhetoric and composition.

### Fully Offered At:

- Kent Campus

## Admission Requirements

- Bachelor's degree from an accredited college or university for unconditional admission
- Minimum 3.000 undergraduate GPA on a 4.000 point scale for unconditional admission
- Official transcript(s)
- GRE scores (GRE waived for in-service teachers)
- Writing sample (8-15 pages) relevant to the field of study (writing sample waived for Concentration for Teachers)
- Goal statement
- Three letters of recommendation
- English language proficiency - all international students must provide proof of English language proficiency (unless they meet specific exceptions) by earning one of the following:
  - Minimum 587 TOEFL PBT score (paper-based version)
  - Minimum 94 TOEFL IBT score (Internet-based version)
  - Minimum 82 MELAB score
  - Minimum 7.0 IELTS score

- Minimum 65 PTE score
- Minimum 120 Duolingo English Test score

For more information about graduate admissions, please visit the Graduate Studies admission website. For more information on international admission, visit the Office of Global Education's admission website.

## Program Learning Outcomes

Graduates of this program will be able to:

1. Demonstrate the ability to think critically about the literary texts they read and interpret.
2. Demonstrate how to write coherently and clearly about research topics and other topics.
3. Demonstrate an understanding on how disciplines are interconnected.
4. Apply appropriate research methods to objects of study.
5. Demonstrate effective teaching skills and knowledge of appropriate teaching theories, if on appointment.

## Program Requirements

### Concentration for Teachers

Code	Title	Credit Hours
<b>Concentration Requirements</b>		
ENG 61000	INTRODUCTION TO RESEARCH AND PEDAGOGY IN CRITICAL READING	3
ENG 61094	INTRODUCTION TO RESEARCH IN THE TEACHING OF COLLEGE WRITING	0-3
Choose from the following (three courses, each from a separate area):		9
Literary Traditions		
Rhetoric and Composition		
Literary Criticism and Theory		
Creative Writing		
Electives <sup>1</sup>		18-21
Minimum Total Credit Hours:		33

- <sup>1</sup> Elective courses may include 9 credit hours taken outside the Department of English, 6 credit hours of graduate workshops, and 6 credit hours of master's project.

### Literature and Writing Concentration

Code	Title	Credit Hours
<b>Concentration Requirements</b>		
ENG 61000	INTRODUCTION TO RESEARCH AND PEDAGOGY IN CRITICAL READING	3
ENG 61094	INTRODUCTION TO RESEARCH IN THE TEACHING OF COLLEGE WRITING <sup>1</sup>	0-3
Choose one focus from the following:		30
<i>Literary Traditions Focus</i>		
Literary Traditions courses (12)		
Literary Criticism and Theory course (3)		
Electives and/or Thesis (15)		
<i>Theory and Criticism Focus</i>		
Literary Criticism and Theory (12)		
Literary Traditions courses (6)		

Electives and/or Thesis (12)

*Rhetoric and Composition Focus*

ENG 65012 READING AND INTERPRETING RESEARCH ON WRITING

ENG 65044 RESEARCH DESIGN

Literary Traditions courses (6)

Literary Criticism and Theory course (3)

Elective (3)

Choose from the following (12):

ENG 65022 RHETORICAL THEORY:GREEK AND ROMAN

ENG 65023 RHETORICAL THEORY:18TH, 19TH AND 20TH CENTURIES

ENG 65027 ROLE OF COMPOSITION

ENG 65035 LINGUISTICS FOR RHETORICIANS

ENG 65051 LITERACY:FUNCTIONS, PRACTICES AND HISTORY

ENG 65052 WRITING ACTIVITY AS SOCIAL PRACTICE

ENG 65053 WRITING TECHNOLOGIES

Elective (3)

Minimum Total Credit Hours:

33

- <sup>1</sup> Students who will serve as graduate assistants are required to take ENG 61094. Students who are not graduate assistants do not have to take the course; however, they must complete an additional 3 credit hours of additional coursework to meet the minimum 33 credit hours to graduate.

## Graduation Requirements

Students are required to complete 33 credit hours of graded coursework to earn the M.A. degree.

## English - Minor

### College of Arts and Sciences

Department of English

113 Satterfield Hall

Kent Campus

330-672-2676

english@kent.edu

www.kent.edu/english

## Description

The English minor offers students the opportunity to gain expertise in the study of historical literature, literary movement, major authors, genre studies, and literary theory. It is an especially attractive complement to degrees in fine arts, foreign languages, history, sociology, psychology, business and journalism.

### Fully Offered At:

- Ashtabula Campus
- East Liverpool Campus
- Geauga Campus
- Kent Campus
- Salem Campus
- Stark Campus

- Trumbull Campus
- Tuscarawas Campus

## Admission Requirements

Admission to a minor is open to students declared in a bachelor's degree, the A.A.B. or A.A.S. degree or the A.T.S. degree (not Individualized Program major). Students declared only in the A.A. or A.S. degree or the A.T.S. degree in Individualized Program may not declare a minor. Students may not pursue a minor and a major in the same discipline.

## Minor Requirements

Code	Title	Credit Hours
<b>Minor Requirements</b>		
ENG 24001	INTRODUCTION TO LITERARY STUDY	3
Kent Core Literature Electives, choose from the following:		3
ENG 21054	INTRODUCTION TO SHAKESPEARE (KHUM)	
ENG 22071	GREAT BOOKS TO 1700 (KHUM)	
ENG 22072	GREAT BOOKS SINCE 1700 (KHUM)	
ENG 22073	MAJOR MODERN WRITERS: BRITISH AND UNITED STATES (KHUM)	
English (ENG) Elective <sup>1</sup>		6
Literary Study Electives, choose from the following:		9
ENG 21001	INTRODUCTION TO ETHNIC LITERATURE OF THE UNITED STATES (DIVD)	
ENG 21002	INTRODUCTION TO WOMEN'S LITERATURE (DIVD)	
ENG 21003	INTRODUCTION TO LGBT LITERATURE (DIVD)	
ENG 32001	CHILDREN'S LITERATURE	
ENG 32002	LITERATURE FOR YOUNG ADULTS	
ENG 33001	U.S. LITERATURE TO 1865	
ENG 33002	U.S. LITERATURE FROM 1865 TO 1945	
ENG 33003	U.S. LITERATURE FROM 1945 TO PRESENT	
ENG 33010	AFRICAN-AMERICAN LITERATURE TO 1900	
ENG 33012	MODERN AFRICAN-AMERICAN LITERATURE	
ENG 33013	PAN-AFRICAN WOMEN'S LITERATURE (DIVG)	
ENG 33014	AFRICAN-AMERICAN WOMEN'S LITERATURE	
ENG 33015	AFRICAN LITERATURES (DIVG)	
ENG 34001	MEDIEVAL LITERATURE	
ENG 34002	BRITISH LITERATURE, 1500-1660	
ENG 34003	BRITISH LITERATURE, 1660-1800	
ENG 34004	BRITISH LITERATURE, 1800-1900	
ENG 34005	BRITISH AND IRISH LITERATURE, 1900-PRESENT	
ENG 34011	WORLD LITERATURE IN ENGLISH (DIVG)	
ENG 34021	WOMEN'S LITERATURE (DIVD)	
ENG 34031	SHORT STORY	
ENG 34041	FAIRY TALES	
ENG 34055	SHAKESPEARE	
ENG 34065	CHAUCCER	
ENG 34090	SHAKESPEARE IN PERFORMANCE	
ENG 34095	SPECIAL TOPICS: MAJOR AUTHOR STUDIES	
ENG 35101	LITERATURE AND OTHER DISCIPLINES	
ENG 35201	THE BIBLE AS LITERATURE	
ENG 35301	LESBIAN, GAY, BISEXUAL AND TRANSGENDER: CRITICAL PERSPECTIVES (DIVD)	
ENG 35401	SCIENCE FICTION	

ENG 36001	APPLIED LITERARY CRITICISM
ENG 37001	CLASSICAL RHETORIC
ENG 39095	SPECIAL TOPICS IN LITERARY HISTORY
ENG 39195	SPECIAL TOPICS IN DRAMA
ENG 39295	SPECIAL TOPICS IN POETRY
ENG 39395	SPECIAL TOPICS IN FICTION
ENG 39495	SPECIAL TOPICS IN COMPARATIVE LITERATURE
ENG 39695	SPECIAL TOPICS IN ETHNIC LITERATURE OF THE UNITED STATES
ENG 39795	SPECIAL TOPICS IN WOMEN'S LITERATURE
ENG 39995	SPECIAL TOPICS CULTURAL STUDIES

Minimum Total Credit Hours: 21

<sup>1</sup> Students may fulfill the English Elective with any English (ENG) 20000, 30000 or 40000 level courses, excluding ENG 21011, ENG 41009, ENG 41092, ENG 41192 and ENG 41292. No English (ENG) 10000 level courses may be used to meet this requirement.

## Graduation Requirements

Minimum Minor GPA	Minimum Overall GPA
2.000	2.000

- Minimum 9 of the 21 total credit hours must be upper-division coursework (30000 and 40000 level).
- Students must complete at least two upper-division (30000 or 40000 level) courses in the minor at Kent State on a graded basis (A-F).
- Minimum 6 credit hours in the minor must be outside of the course requirements for any major or other minor the student is pursuing.
- Minimum 50 percent of the total credit hours for the minor must be taken at Kent State (in residence).

## English - Ph.D.

### College of Arts and Sciences

Department of English  
113 Satterfield Hall  
Kent Campus  
330-672-2676  
english@kent.edu  
www.kent.edu/english

## Description

The Ph.D. in English permits students to focus on literary traditions and literary theory. Doctoral students identify, investigate and theorize the social functions of texts in a variety of contexts both within and outside the academy, doing work that crosses the increasingly fluid boundaries that have begun to characterize the profession of literary and cultural studies. The program provides sustained focus on the social functions of all categories of texts (both literary and non-literary), including the conditions of their production, distribution and consequent use.

## Fully Offered At:

- Kent Campus



## Admission Requirements

- Master's degree from an accredited college or university for unconditional admission
- Minimum 3.000 GPA on a 4.000 point scale for unconditional admission
- Official transcript(s)
- GRE scores (waived for in-service teachers)
- Goal statement
- Writing sample (8-15 pages) relevant to the field of study
- Three letters of recommendation
- English language proficiency - all international students must provide proof of English language proficiency (unless they meet specific exceptions) by earning one of the following:
  - Minimum 587 TOEFL PBT score (paper-based version)
  - Minimum 94 TOEFL IBT score (Internet-based version)
  - Minimum 82 MELAB score
  - Minimum 7.0 IELTS score
  - Minimum 65 PTE score
  - Minimum 130 Duolingo English Test score

For more information about graduate admissions, please visit the Graduate Studies admission website. For more information on international admission, visit the Office of Global Education's admission website.

## Program Learning Outcomes

Graduates of this program will be able to:

1. Demonstrate effective teaching skills and knowledge of appropriate teaching theories.
2. Demonstrate the ability to read and interpret research in their field.
3. Write coherently and clearly about research topics and other topics.
4. Demonstrate an understanding of how disciplines are interconnected.
5. Demonstrate the ability to think critically and creatively about topics both inside and outside academia.
6. Apply appropriate research methods to objects of study.

## Program Requirements

### Major Requirements

Code	Title	Credit Hours
<b>Major Requirements</b>		
ENG 76706	METHODS IN THE STUDY OF LITERATURE	3
ENG 89199	DISSERTATION I <sup>1</sup>	30
Focus Requirement, choose from the following:		27
<i>Literary Traditions Focus</i>		
Literary Traditions courses (12)		
Literary Criticism and Theory course (3)		
Electives (12)		
<i>Theory and Criticism Focus</i>		
Literary Criticism and Theory courses (12)		
Literary Traditions courses (6)		
Electives (9)		
Minimum Total Credit Hours:		60

- <sup>1</sup> Each doctoral candidate, upon admission to candidacy, must register for ENG 89199 for a total of 30 credit hours. It is expected that a doctoral candidate will continuously register for ENG 89199, and thereafter ENG 89299, each semester, until all requirements for the degree have been met.

## Graduation Requirements

- Students on appointment who have not had college teaching experience are required to take ENG 61094. The master's-level course cannot be applied toward the doctoral degree.
- Students are required to pass a foreign language requirement for the degree.

## Candidacy for the Degree

Doctoral students must pass two written examinations in two distinct areas of English studies before being admitted to candidacy. They must also defend a dissertation prospectus.

## English - Rhetoric and Composition - Ph.D.

### College of Arts and Sciences

Department of English  
113 Satterfield Hall  
Kent Campus  
330-672-2676  
english@kent.edu  
www.kent.edu/english

## Description

The Ph.D. degree in English, with a concentration in Rhetoric and Composition, concentrates on the ways literacy practices shape people's lives in educational, workplace and public spheres. The coursework emphasizes data-rich and methodologically sophisticated research and prepares students to investigate literacy, rhetoric and social practice. Collaborative research with faculty, administrative opportunities, and community outreach prepare students to sustain and advance in the discipline. Graduates contribute in meaningful ways to university communities and the larger public sphere.

### Fully Offered At:

- Kent Campus

## Admission Requirements

- Master's degree from an accredited college or university for unconditional admission
- Minimum 3.000 GPA on a 4.000 point scale for unconditional admission
- Official transcript(s)
- GRE scores
- Writing sample (8-15 pages) relevant to the field of study
- Goal statement
- Three letters of recommendation

- English language proficiency - all international students must provide proof of English language proficiency (unless they meet specific exceptions) by earning one of the following:
  - Minimum 610 TOEFL PBT score (paper-based version)
  - Minimum 102 TOEFL IBT score (Internet-based version)
  - Minimum 86 MELAB score
  - Minimum 7.5 IELTS score
  - Minimum 73 PTE score

For more information about graduate admissions, please visit the Graduate Studies admission website. For more information on international admission, visit the Office of Global Education's admission website.

## Program Learning Outcomes

Graduates of this program will be able to:

1. Develop knowledge of the field of Rhetoric and Composition, its application in diverse contexts, and its role in contemporary culture.
2. Generate research questions, develop appropriate research designs, and practice ethical modes of inquiry.
3. Participate in local and international communities of like-minded scholars and teachers.
4. Contribute new knowledge in the field of Rhetoric and Composition.

## Program Requirements

### Major Requirements

Code	Title	Credit Hours
<b>Major Requirements</b>		
ENG 75012	READING AND INTERPRETING RESEARCH ON WRITING <sup>1</sup>	3
ENG 75022	RHETORICAL THEORY:GREEK AND ROMAN	3
ENG 75044	RESEARCH DESIGN <sup>1</sup>	3
ENG 75051	LITERACY:FUNCTIONS, PRACTICES AND HISTORY	3
ENG 89199	DISSERTATION I <sup>2</sup>	30
Theory Electives, choose from the following:		9
ENG 75023	RHETORICAL THEORY:18TH, 19TH AND 20TH CENTURIES	
ENG 75027	ROLE OF COMPOSITION	
ENG 75035	LINGUISTICS FOR RHETORICIANS	
ENG 85024	DOMAIN RHETORICS AND THE CONSTRUCTION OF KNOWLEDGE	
ENG 85025	THEORIES AND SYSTEMS OF WRITING AND REPRESENTATION	
ENG 85033	THE RHETORICAL NATURE AND FUNCTION OF EXTENDED DISCOURSE	
ENG 85055	THE NATURE AND RELATIONSHIP OF ACADEMIC AND NONACADEMIC LITERACY	
ENG 85056	INTRODUCTION TO THE STUDY OF WRITING ASSESSMENT: RESEARCH, THEORY AND PRACTICE	
Practice Electives, choose from the following:		9
ENG 75052	WRITING ACTIVITY AS SOCIAL PRACTICE	
ENG 75053	WRITING TECHNOLOGIES	
ENG 85041	FIELD RESEARCH METHODS IN WRITING	
ENG 85042	DISCOURSE ANALYSIS	

ENG 85054	STUDIES IN LITERACY AND COMMUNITY
ENG 85057	RHETORICAL METHODS
Minimum Total Credit Hours:	
	60

- <sup>1</sup> When scheduling permits, students should take ENG 75012 as a prerequisite to ENG 75044; there will be semesters however, when students need to take ENG 75012 and ENG 75044 simultaneously if they want to take ENG 75044.
- <sup>2</sup> Students, with guidance from faculty, complete a qualifying examination before writing a dissertation prospectus. Upon the successful completion of the qualifying examination, students form a dissertation committee whose members direct the student through the dissertation and the completion of the degree. Each doctoral candidate, upon admission to candidacy, must register for ENG 89199 for a total of 30 hours. It is expected that a doctoral candidate will continuously register for Dissertation I, and thereafter ENG 89299, each semester, until all requirements for the degree have been met.

## Professional and Technical Writing - Minor

### College of Arts and Sciences

Department of English  
113 Satterfield Hall  
Kent Campus  
330-672-2676  
english@kent.edu  
www.kent.edu/english

## Description

The Professional and Technical Writing minor provides training in writing, editing, proofreading and publishing for students seeking to enter professional or technical fields that demand strong written communication.

### Fully Offered At:

- Ashtabula Campus
- East Liverpool Campus
- Geauga Campus
- Kent Campus
- Salem Campus
- Stark Campus
- Trumbull Campus
- Tuscarawas Campus
- Twinsburg Academic Center

## Admission Requirements

Admission to a minor is open to students declared in a bachelor's degree, the A.A.B. or A.A.S. degree or the A.T.S. degree (not Individualized Program major). Students declared only in the A.A. or A.S. degree or the A.T.S. degree in Individualized Program may not declare a minor. Students may not pursue a minor and a major in the same discipline.

## Minor Requirements

Code	Title	Credit Hours
<b>Minor Requirements</b>		
ENG 20002	INTRODUCTION TO TECHNICAL WRITING	3
ENG 30063	PROFESSIONAL WRITING	3
ENG 30072	EDITING AND PUBLISHING I <sup>1</sup>	3
or ENG 30074	GRAMMAR FOR EDITING	
Minor Electives, choose from the following: <sup>2</sup>		9
ENG 30050	WRITING AND RHETORIC IN A DIGITAL AGE	
ENG 30051	WRITING, RHETORIC AND NEW MEDIA	
ENG 30052	MEDICAL AND SCIENTIFIC WRITING	
ENG 30062	PRINCIPLES OF TECHNICAL WRITING	
ENG 30064	ARGUMENTATIVE PROSE WRITING	
ENG 30065	EXPOSITORY PROSE WRITING	
ENG 30066	WRITING IN THE PUBLIC SPHERE (ELR)	
ENG 30072	EDITING AND PUBLISHING I	
ENG 30074	GRAMMAR FOR EDITING	
ENG 38895	SPECIAL TOPICS IN WRITING	
ENG 42092	WRITING INTERNSHIP (ELR) <sup>3</sup>	
ENG 42192	SERVICE LEARNING IN ENGLISH STUDIES (ELR)	
HDFS 44032	NONPROFIT FUNDRAISING AND GRANTWRITING	
JMC 20001	MEDIA, POWER AND CULTURE (DIVD) (KSS)	
TRST 30230	APPROACHES TO TRANSLATION	

Minimum Total Credit Hours: 18

<sup>1</sup> The course not selected (ENG 30072 or ENG 30074) may be taken to fulfill a Writing Electives.

<sup>2</sup> In selecting electives, students are encouraged to combine choices into an area of emphasis, such as digital/web writing; technical and scientific writing; editing and publishing; or public advocacy writing. Students may apply to the chair of the English Department for permission to use special topics courses and other appropriate courses not listed in the curriculum to fulfill the minor electives. Students in the College of Communication and Information may request that specific courses in communication studies and journalism and mass communication be accepted to fulfill minor electives.

<sup>3</sup> Though offered for variable credit, students pursuing the minor should take 3 credit hours of ENG 42092.

## Graduation Requirements

Minimum Minor GPA	Minimum Overall GPA
2.000	2.000

- Students must complete at least two upper-division (30000 or 40000 level) courses in the minor at Kent State on a graded basis (A-F).
- Students who wish to complete a longer project or prepare a portfolio for graduate school or for a job application, may request to be enrolled in ENG 40099 for two additional credit hours of individualized work.
- Minimum 6 credit hours in the minor must be upper-division coursework (30000 and 40000 level).

- Minimum 6 credit hours in the minor must be outside of the course requirements for any major or other minor the student is pursuing.
- Minimum 50 percent of the total credit hours for the minor must be taken at Kent State (in residence).

## Teaching English as a Foreign Language - Undergraduate Certificate

### College of Arts and Sciences

Department of English  
113 Satterfield Hall  
Kent Campus  
330-672-2676  
english@kent.edu  
www.kent.edu/english

## Description

The Teaching English as a Foreign Language undergraduate certificate immerses students within another culture while at the same time giving them the structure and support that allows them to succeed as teachers of English. With the world's growing need for individuals who speak English, the demand for people who can teach English as a foreign language has grown rapidly over the past few decades.

## Fully Offered At:

- Kent Campus

## Admission Requirements

The university affirmatively strives to provide educational opportunities and access to students with varied backgrounds, those with special talents and adult students who graduated from high school three or more years ago.

**Freshman Students on the Kent Campus:** The freshman admission policy on the Kent Campus is selective. Admission decisions are based upon the following: cumulative grade point average, ACT and/or SAT scores, strength of high school college preparatory curriculum and grade trends. The Admissions Office at the Kent Campus may defer the admission of students who do not meet admissions criteria but who demonstrate areas of promise for successful college study. Deferred applicants may begin their college coursework at one of seven regional campuses of Kent State University. For more information on admissions, including additional requirements for some academic programs, visit the admissions website for new freshmen.

**Freshman Students on the Regional Campuses:** Kent State campuses at Ashtabula, East Liverpool, Geauga, Salem, Stark, Trumbull and Tuscarawas, as well as the Regional Academic Center in Twinsburg, have open enrollment admission for students who hold a high school diploma, GED or equivalent.

**English Language Proficiency Requirements for International Students:** All international students must provide proof of English language proficiency (unless they meet specific exceptions) by earning a minimum 525 TOEFL score (71 on the Internet-based version), minimum 75 MELAB score, minimum 6.0 IELTS score or minimum 48 PTE score, or by completing the ESL level 112 Intensive Program. For more information on

international admission, visit the Office of Global Education's admission website.

**Transfer, Transitioning and Former Students:** For more information about admission criteria for transfer, transitioning and former students, please visit the admissions website.

## Program Requirements

### Certificate Requirements

Code	Title	Credit Hours
ENG 31001	FUNDAMENTAL ENGLISH GRAMMAR	3
ENG 31003	LINGUISTICS	3
ENG 31007	PEDAGOGY FOR TEACHING ENGLISH AS A SECOND LANGUAGE	3
ENG 31008	GRAMMAR FOR TEACHING ENGLISH AS A SECOND/FOREIGN LANGUAGE	3
ENG 41292	TEACHING ENGLISH AS A FOREIGN LANGUAGE PRACTICUM (ELR) <sup>1</sup>	6
Minimum Total Credit Hours:		18

<sup>1</sup> Students also enrolled in the B.A. Teaching English Second Language [TESL] major with a minor in Education should take 3 credit hours of ENG 41292 in Florence and 3 credit hours of ENG 41192 in Ohio.

### Graduation Requirements

Minimum Certificate GPA	Minimum Overall GPA
2.000	2.000

- Students must complete a minimum of 15 credit hours at Kent State.

## Teaching English as a Second Language - B.A.

### College of Arts and Sciences

Department of English  
113 Satterfield Hall  
Kent Campus  
330-672-2676  
english@kent.edu  
www.kent.edu/english

### Description

The Bachelor of Arts degree in Teaching English as a Second Language provides students with a broad understanding of both theory and practice in language studies, pedagogy, and culture. Students gain mastery in implementing their skills in varied second-language teaching contexts; in addition, they can observe and participate with international learners in a state-of-the-art technology classroom.

Students who complete an optional practicum abroad receive a certificate in Teaching English as a Foreign Language. Students can additionally work toward state teacher licensure by completing the Education minor.

Teaching English as a Second Language students may apply early to the M.A. degree in Teaching English as a Second Language and double count 9 credit hours of graduate courses toward both degree programs. See the

Combined Bachelor's/Master's Degree Program policy in the University Catalog for more information.

### Fully Offered At:

- Kent Campus

## Admission Requirements

The university affirmatively strives to provide educational opportunities and access to students with varied backgrounds, those with special talents and adult students who graduated from high school three or more years ago.

**Freshman Students on the Kent Campus:** The freshman admission policy on the Kent Campus is selective. Admission decisions are based upon the following: cumulative grade point average, ACT and/or SAT scores, strength of high school college preparatory curriculum and grade trends. The Admissions Office at the Kent Campus may defer the admission of students who do not meet admissions criteria but who demonstrate areas of promise for successful college study. Deferred applicants may begin their college coursework at one of seven regional campuses of Kent State University. For more information on admissions, including additional requirements for some academic programs, visit the admissions website for new freshmen.

**Freshman Students on the Regional Campuses:** Kent State campuses at Ashtabula, East Liverpool, Geauga, Salem, Stark, Trumbull and Tuscarawas, as well as the Regional Academic Center in Twinsburg, have open enrollment admission for students who hold a high school diploma, GED or equivalent.

**English Language Proficiency Requirements for International Students:** All international students must provide proof of English language proficiency (unless they meet specific exceptions) by earning a minimum 525 TOEFL score (71 on the Internet-based version), minimum 75 MELAB score, minimum 6.0 IELTS score or minimum 48 PTE score, or by completing the ESL level 112 Intensive Program. For more information on international admission, visit the Office of Global Education's admission website.

**Transfer, Transitioning and Former Students:** For more information about admission criteria for transfer, transitioning and former students, please visit the admissions website.

## Program Learning Outcomes

Graduates of this program will be able to:

1. Demonstrate their professional knowledge through projects and writing.
2. Demonstrate learning and effective teaching practices that incorporate distance learning, computer-assisted learning and effective use of software.
3. Engage with diversity by defining and identifying the English language learners they are likely to serve, and by developing effective teaching strategies to teach for diversity.

## University Requirements

All students in a bachelor's degree program at Kent State University must complete the following university requirements for graduation.

**NOTE:** University requirements may be fulfilled in this program by specific course requirements. Please see Program Requirements for details.

Destination Kent State: First Year Experience	1
Course is not required for students with 25 transfer credits, excluding College Credit Plus, or age 21+ at time of admission.	
Diversity Domestic/Global (DIVD/DIVG)	2 courses
Students must successfully complete one domestic and one global course, of which one must be from the Kent Core.	
Experiential Learning Requirement (ELR)	varies
Students must successfully complete one course or approved experience.	
Kent Core (see table below)	36-37
Writing-Intensive Course (WIC)	1 course
Students must earn a minimum C grade in the course.	
Upper-Division Requirement	39 (or 42)
Students must successfully complete 39 upper-division (numbered 30000 to 49999) credit hours to graduate. Students in a B.A. and/or B.S. degree in the College of Arts and Sciences must complete 42 upper-division credit hours.	
Total Credit Hour Requirement	120
Some bachelor's degrees require students to complete more than 120 credit hours.	

## Kent Core Requirements

Kent Core Composition (KCOMP)	6
Kent Core Mathematics and Critical Reasoning (KMCR)	3
Kent Core Humanities and Fine Arts (KHUM/KFA) (min one course each)	9
Kent Core Social Sciences (KSS) (must be from two disciplines)	6
Kent Core Basic Sciences (KBS/KLAB) (must include one laboratory)	6-7
Kent Core Additional (KADL)	6
<b>Total Credit Hours:</b>	<b>36-37</b>

## Program Requirements

### Major Requirements

Code	Title	Credit Hours
<b>Major Requirements (courses count in major GPA)</b>		
ENG 31001	FUNDAMENTAL ENGLISH GRAMMAR	3
ENG 31002	HISTORY OF THE ENGLISH LANGUAGE	3
or ENG 31004	LEXICOLOGY/LEXICOGRAPHY	
ENG 31003	LINGUISTICS	3
ENG 31005	CHILD SECOND LANGUAGE ACQUISITION <sup>1</sup>	3
or ENG 31009	ADULT SECOND LANGUAGE ACQUISITION	
ENG 31007	PEDAGOGY FOR TEACHING ENGLISH AS A SECOND LANGUAGE	3
ENG 31008	GRAMMAR FOR TEACHING ENGLISH AS A SECOND/FOREIGN LANGUAGE	3
ETEC 39525	EDUCATIONAL TECHNOLOGY	3
or ETEC 47400	TRENDS IN EDUCATIONAL TECHNOLOGY	
or ETEC 47403	INSTRUCTIONAL DESIGN	
ENG 41003	LANGUAGE CURRICULUM, MATERIALS AND ASSESSMENT	3
ENG 41092	ESL PRACTICUM IN INTENSIVE ENGLISH PROGRAMS (ELR) <sup>2</sup>	3

or ENG 41292	TEACHING ENGLISH AS A FOREIGN LANGUAGE PRACTICUM (ELR)	
or ENG 41192	ESL PRACTICUM IN A P-12 SETTING (ELR)	
Writing Elective, choose from the following:		3
ENG 30050	WRITING AND RHETORIC IN A DIGITAL AGE	
ENG 30051	WRITING, RHETORIC AND NEW MEDIA	
ENG 30062	PRINCIPLES OF TECHNICAL WRITING	
ENG 30063	PROFESSIONAL WRITING	
ENG 30064	ARGUMENTATIVE PROSE WRITING	
ENG 30066	WRITING IN THE PUBLIC SPHERE (ELR)	
Language and Thought in World Perspective Electives, choose from the following:		6
COMM 35852	INTERCULTURAL COMMUNICATION (DIVG)	
ENG 31006	WORLD ENGLISHES (DIVG) (WIC) <sup>3</sup>	
ENG 41001	SOCIOLINGUISTICS IN SCHOOLING (DIVD) (WIC) <sup>3</sup>	
PSYC 22221	MULTICULTURAL PSYCHOLOGY (DIVD)	
<b>Additional Requirements (courses do not count in major GPA)</b>		
UC 10097	DESTINATION KENT STATE: FIRST YEAR EXPERIENCE	1
Foreign Language (see Foreign Language College Requirement below)		14-16
College General Requirement (must be from Kent Core Basic Sciences) <sup>4</sup>		3
College General Requirement (must be from Kent Core Social Sciences) <sup>5</sup>		3
Kent Core Composition		6
Kent Core Mathematics and Critical Reasoning		3
Kent Core Humanities and Fine Arts (minimum one course from each)		9
Kent Core Social Sciences (must be from two disciplines)		6
Kent Core Basic Sciences (must include one laboratory)		6-7
Kent Core Additional		6
General Electives (total credit hours depends on earning 120 credit hours, including 42 upper-division credit hours)		27
Minimum Total Credit Hours:		120

<sup>1</sup> Students declared in the Education minor should take ENG 31005. ENG 31009 may be taken as an elective.

<sup>2</sup> Students declared in the Education minor should take ENG 41192. Students should take ENG 41292 towards the requirements for the Teaching English as a Foreign Language certificate

<sup>3</sup> A minimum C grade must be earned to fulfill the writing intensive requirement.

<sup>4</sup> One additional course taken from the Kent Core Basic Science courses in the following Arts and Sciences disciplines: Anthropology (ANTH), Biological Sciences (BSCI), Chemistry (CHEM), Geography (GEOG), Geology (GEOL) or Physics (PHY). The course may not be from the student's major.

<sup>5</sup> One additional course taken from the Kent Core Social Sciences courses in the following Arts and Sciences disciplines: Anthropology (ANTH), Geography (GEOG), Criminology and Justice Studies (CRIM), Peace and Conflict Studies (PACS), Political Science (POL), Psychology (PSYC) or Sociology (SOC). The course may not be from the student's major.

## Graduation Requirements

Minimum Major GPA	Minimum Overall GPA
2.000	2.000



- Students pursuing a Bachelor of Arts degree in Teaching English as a Second Language must complete 14-16 credit hours of a foreign language through Intermediate II of the same language. Students should contact the Department of Modern and Classical Language Studies for individualized placement and advising information prior to enrolling in their first foreign language course. Students entering the university with substantial knowledge of a language should consider taking the College-Level Examination Program (CLEP).

## Roadmap

This roadmap is a recommended semester-by-semester plan of study for this major. However, courses designated as critical (!) must be completed in the semester listed to ensure a timely graduation.

Semester One		Credits
UC 10097	DESTINATION KENT STATE: FIRST YEAR EXPERIENCE	1
Foreign Language		4
Kent Core Requirement		3
Kent Core Requirement		3
Kent Core Requirement		3
Credit Hours		14
Semester Two		
Foreign Language		4
Kent Core Requirement		3
Kent Core Requirement		3
Kent Core Requirement		3
Kent Core Requirement		3
Credit Hours		16
Semester Three		
ENG 31001	FUNDAMENTAL ENGLISH GRAMMAR	3
Foreign Language		3
Kent Core Requirement		3
Kent Core Requirement		3
Kent Core Requirement		3
Credit Hours		15
Semester Four		
ENG 31003	LINGUISTICS	3
Foreign Language		3
College General Requirement		3
Kent Core Requirement		3
Kent Core Requirement		3
Credit Hours		15
Semester Five		
ENG 31002	HISTORY OF THE ENGLISH LANGUAGE	3
or	or LEXICOLOGY/LEXICOGRAPHY	
ENG 31004		
ENG 31005	CHILD SECOND LANGUAGE ACQUISITION	3
or	or ADULT SECOND LANGUAGE ACQUISITION	
ENG 31009		
ENG 31008	GRAMMAR FOR TEACHING ENGLISH AS A SECOND/FOREIGN LANGUAGE	3
Language and Thought in World Perspective Elective		3
Writing Elective		3
Credit Hours		15
Semester Six		
ENG 31007	PEDAGOGY FOR TEACHING ENGLISH AS A SECOND LANGUAGE	3
ENG 41092	ESL PRACTICUM IN INTENSIVE ENGLISH PROGRAMS (ELR)	3
or	or ESL PRACTICUM IN A P-12 SETTING (ELR)	
ENG 41192	or TEACHING ENGLISH AS A FOREIGN LANGUAGE PRACTICUM (ELR)	
or	or TEACHING ENGLISH AS A FOREIGN LANGUAGE PRACTICUM (ELR)	
ENG 41292		
ETEC 39525	EDUCATIONAL TECHNOLOGY	3
or	or TRENDS IN EDUCATIONAL TECHNOLOGY	
ETEC 47400	or INSTRUCTIONAL DESIGN	
or		
ETEC 47403		

College General Requirement		3
General Electives		3
Credit Hours		15
Semester Seven		
Language and Thought in World Perspective Elective		3
General Electives		12
Credit Hours		15
Semester Eight		
ENG 41003	LANGUAGE CURRICULUM, MATERIALS AND ASSESSMENT	3
General Electives		12
Credit Hours		15
Minimum Total Credit Hours:		120

## Teaching English as a Second/Foreign Language - Graduate Certificate

### College of Arts and Sciences

Department of English

113 Satterfield Hall

Kent Campus

330-672-2676

english@kent.edu

www.kent.edu/english

## Description

The Teaching English as a Second/Foreign Language graduate certificate is for students who are interested in developing professional knowledge and skills in the area of teaching English. The curriculum focuses on providing students with a broad background in the field, in particular linguistics, language-teaching methodologies and language acquisition and use.

### Fully Offered At:

- Kent Campus

## Program Requirements

### Certificate Requirements

Code	Title	Credit Hours
Certificate Requirements		
ENG 63001	METHODOLOGY OF TESL	3
ENG 63033	THEORIES IN SECOND LANGUAGE ACQUISITION	3
ENG 63041	DESCRIPTIVE GRAMMAR OF ENGLISH	3
ENG 63391	SEMINAR:LINGUISTICS	3
Certificate Electives, choose from the following:		6
ENG 63034	LITERATE PRACTICES AND SOCIOLINGUISTICS	
ENG 63037		
ENG 63038	TEACHING LITERATURE AND CULTURE	
ENG 63039	SECOND LANGUAGE CURRICULUM AND TESTING	
ENG 63040	LINGUISTICS FOR THE LANGUAGE PROFESSIONS	

ENG 63043	SECOND LANGUAGE WRITING
ENG 63044	SECOND LANGUAGE READING
ENG 63045	ENGLISH FOR SPECIFIC PURPOSES
ENG 63046	SECOND LANGUAGE LISTENING AND SPEAKING
ENG 63047	HERITAGE LANGUAGES AND SECOND LANGUAGE LEARNING
ENG 63098	SECOND LANGUAGE RESEARCH METHODS
ENG 63391	SEMINAR:LINGUISTICS
ENG 68492	PRACTICUM IN TEACHING INTERNATIONAL STUDENTS

Minimum Total Credit Hours: 18

## Graduation Requirements

Minimum Certificate GPA	Minimum Overall GPA
3.000	

- Students declared in a doctoral degree should enroll in the doctoral-level version of these courses, if offered.

# Teaching English as Second Language - M.A.

## College of Arts and Sciences

Department of English

113 Satterfield Hall

Kent Campus

330-672-2676

english@kent.edu

www.kent.edu/english

## Description

The Master of Arts degree in Teaching English as a Second Language is grounded in linguistic principles, language learning theory and empirical research on language learning and teaching. The program enables students to teach effectively in varied learning contexts. Students gain experience through a supervised practicum and have the opportunity to teach in a variety of English-as-a-second/foreign-language contexts. Graduates are prepared for international teaching and research, adult education, and advanced study in applied linguistics. literacy positions.

The Teaching English as a Second Language major comprises the following optional concentration:

- The **TESL Education** concentration prepares students for P-12 school educators. Students' practicum takes place in area schools, and students prepare for the state licensure requirements.

## Fully Offered At:

- Kent Campus

## Admission Requirements

Applicants will be assessed holistically, considering academic credentials; academic or professional references; non-academic criteria; and other specific program criteria.

- Bachelor's degree from an accredited college or university for unconditional admission
- Minimum 3.000 undergraduate GPA on a 4.000 point scale for unconditional admission
- Official transcript(s)
- Goal statement (1-2 pages)
- Three letters of recommendation
- English language proficiency - all international students must provide proof of English language proficiency (unless they meet specific exceptions) by earning one of the following:
  - Minimum 550 TOEFL PBT score (paper-based version)
  - Minimum 79 TOEFL IBT score (Internet-based version)
  - Minimum 77 MELAB score
  - Minimum 6.5 IELTS score
  - Minimum 58 PTE score
  - Minimum 110 Duolingo English Test score

For more information about graduate admissions, please visit the Graduate Studies admission website. For more information on international admission, visit the Office of Global Education's admission website.

## Program Learning Outcomes

Graduates of this program will be able to:

1. Demonstrate understanding of different associated fields within teaching English as a second language, including linguistics, language acquisition, pedagogy and practice.
2. Demonstrate what knowledge of the field and disciplines making up teaching English as a second language.
3. Demonstrate skills in teaching.
4. Demonstrate understanding of different cultural norms and practices and the ability to accommodate teaching practices based on these differences.

## Program Requirements

### Major Requirements

Code	Title	Credit Hours
<b>Major Requirements</b>		
ENG 63001	METHODOLOGY OF TESL	3
ENG 63033	THEORIES IN SECOND LANGUAGE ACQUISITION	3
ENG 63040	LINGUISTICS FOR THE LANGUAGE PROFESSIONS	3
ENG 63041	DESCRIPTIVE GRAMMAR OF ENGLISH	3
<b>Additional Requirements or Concentration</b>		
Choose from the following:		24-36
Additional Requirements for Students Not Declaring a Concentration		
TESL Education Concentration		
Minimum Total Credit Hours:		36-48

- <sup>1</sup> Students declared in the TESL Education concentration must complete field/clinical hours in P-12 schools.

## Additional Requirements for Students Not Declaring a Concentration

Code	Title	Credit Hours
ENG 63034 or ENG 63047	LITERATE PRACTICES AND SOCIOLINGUISTICS HERITAGE LANGUAGES AND SECOND LANGUAGE LEARNING	3
ENG 68492	PRACTICUM IN TEACHING INTERNATIONAL STUDENTS	3
Major Electives, choose from the following: <sup>1</sup>		18
ENG 63034	LITERATE PRACTICES AND SOCIOLINGUISTICS <sup>2</sup>	
ENG 63038	TEACHING LITERATURE AND CULTURE	
ENG 63039	SECOND LANGUAGE CURRICULUM AND TESTING	
ENG 63043	SECOND LANGUAGE WRITING	
ENG 63044	SECOND LANGUAGE READING	
ENG 63045	ENGLISH FOR SPECIFIC PURPOSES	
ENG 63046	SECOND LANGUAGE LISTENING AND SPEAKING	
ENG 63047	HERITAGE LANGUAGES AND SECOND LANGUAGE LEARNING <sup>2</sup>	
ENG 63098	SECOND LANGUAGE RESEARCH METHODS	
ENG 63391	SEMINAR:LINGUISTICS	
ENG 69199	THESIS I	
Minimum Total Credit Hours:		24

<sup>1</sup> Students may use 6 credit hours in appropriate graduate courses in other departments with approval of department advisor toward the 18 credit hour requirement.

<sup>2</sup> Students may choose these courses if not chosen above.

## TESL Education Concentration requirements

Code	Title	Credit Hours
<b>Concentration Requirements</b>		
CI 67105	IMPROVING CLASSROOM INSTRUCTION	3
CI 67310	THEORY AND PRACTICE IN THE TEACHING OF READING	3
or CI 67330	READING IN CONTENT AREAS	
ENG 51009	STUDENT TEACHING <sup>1,2,3</sup>	9
ENG 63044	SECOND LANGUAGE READING	3
ENG 68592	PRACTICUM IN TEACHING P-12 ENGLISH LANGUAGE LEARNERS <sup>3,4</sup>	3
Concentration Electives, choose from the following:		15
CI 61130	MULTICULTURAL EDUCATION: STRATEGIES	
ENG 63034	LITERATE PRACTICES AND SOCIOLINGUISTICS	
ENG 63038	TEACHING LITERATURE AND CULTURE	
ENG 63039	SECOND LANGUAGE CURRICULUM AND TESTING	
ENG 63043	SECOND LANGUAGE WRITING	
ENG 63045	ENGLISH FOR SPECIFIC PURPOSES	
ENG 63046	SECOND LANGUAGE LISTENING AND SPEAKING	
ENG 63047	HERITAGE LANGUAGES AND SECOND LANGUAGE LEARNING	
ENG 63098	SECOND LANGUAGE RESEARCH METHODS	

- <sup>1</sup> During students' full-time student teaching assignment, they are assessed on professional dispositions, understanding of codes of ethics and professional standards appropriate to TESL, and work with English Language Learners.
- <sup>2</sup> Data literacy and analysis, use of research and assessment data, leadership and collaboration, utilizing and supporting appropriate technology for the discipline, and an understanding of laws related to English Language Learners are assessed in the school context.
- <sup>3</sup> Prior to enrollment in ENG 51009 and ENG 68592, students must be evaluated satisfactorily on non-academic dimensions, including completing background checks and demonstrating basic competency in reading, writing and mathematics. To demonstrate these competencies, students are required to take the Praxis Core tests in Reading, Math, and Writing unless exempted by GRE scores fewer than five years old at the time of application. In order to gain exemption from Praxis CORE requirements, a student must achieve at or above the 50th percentile scores on the GRE Verbal, Quantitative, and Analytical Writing tests. Students who have not taken the GRE are strongly encouraged to take the Praxis CORE tests to demonstrate these competencies, rather than GRE. Further information is available in the Office of Graduate Student Services.
- <sup>4</sup> One hundred hours of field work as teacher assistants in area schools enable students to gain collaborative clinical experience as P-12 teachers.

## Graduation Requirements

- All students in the M.A. degree complete a capstone project with options of a thesis or portfolio or exams.
- All students in the M.A. degree cannot be concurrently enrolled in the Teaching English as a Second/Foreign Language certificate. Students who hold either certificate may be permitted to apply 12 graduate credit hours earned in the certificate toward the M.A. degree.

## Licensure Information

Candidates seeking Ohio licensure are required to pass specific assessments in order to apply for licensure. Students should consult their advisors for specific program requirements and refer the Ohio Department of Education-Educator Preparation website for more information on assessments specific to licensure type.

## Teaching English as Second Language Endorsement Preparation (Graduate Non-Degree)

### College of Arts and Sciences

Department of English  
113 Satterfield Hall  
Kent Campus  
330-672-2676  
english@kent.edu  
www.kent.edu/english

## Description

The graduate non-degree program in Teaching English as Second Language Endorsement Preparation allows teachers with a current Ohio teaching license to advance their knowledge of language and second language learning in the P-12 context toward Ohio Department of Education (ODE) Endorsement. This non-degree program serves as recommendation to ODE Endorsement in multiage TESOL and is not a master's degree program. Students interested in obtaining a teaching license and a master's degree in TESL from Kent State University must be fully admitted to the MA TESL Teacher's Concentration.

### Fully Offered At:

- Kent Campus

## Accreditation

Ohio Department of Education (CAEP)

## Admission Requirements

- Bachelor's degree from an accredited college or university for unconditional admission
- Minimum 3.000 undergraduate GPA on a 4.000 point scale for unconditional admission
- Documentation of current Ohio license in any P-12 area of expertise;
- Official transcript(s)
- Two letters of recommendation
- English language proficiency - all international students must provide proof of English language proficiency (unless they meet specific exceptions) by earning one of the following:
  - Minimum 550 TOEFL PBT score (paper-based version)
  - Minimum 79 TOEFL IBT score (Internet-based version)
  - Minimum 77 MELAB score
  - Minimum 6.5 IELTS score
  - Minimum 58 PTE score

For more information about graduate admissions, please visit the Graduate Studies admission website. For more information on international admission, visit the Office of Global Education's admission website.

## Program Learning Outcomes

Graduates of this program will be able to:

1. Demonstrate understanding of different associated fields within teaching English as a second language, including linguistics, language acquisition, pedagogy and practice.
2. Demonstrate skills in all aspects of teaching language, literacy, and content to English language learners.
3. Demonstrate understanding of diverse cultural norms and practices within educational contexts.

## Program Requirements

### Endorsement REQUIREMENTS

Code	Title	Credit Hours
<b>Licensure Requirements</b>		
CI 61130	MULTICULTURAL EDUCATION: STRATEGIES	3

or CI 67005	INTERCULTURAL DIMENSIONS OF TEACHING AND LEARNING	
ENG 63001	METHODOLOGY OF TESL <sup>1</sup>	3
ENG 63033	THEORIES IN SECOND LANGUAGE ACQUISITION	3
ENG 63044	SECOND LANGUAGE READING	3
ENG 68592	PRACTICUM IN TEACHING P-12 ENGLISH LANGUAGE LEARNERS <sup>1,2</sup>	3
Electives, choose from the following:		6
ENG 63034	LITERATE PRACTICES AND SOCIOLINGUISTICS	
ENG 63038	TEACHING LITERATURE AND CULTURE	
ENG 63040	LINGUISTICS FOR THE LANGUAGE PROFESSIONS	
ENG 63043	SECOND LANGUAGE WRITING	
ENG 63046	SECOND LANGUAGE LISTENING AND SPEAKING	
ENG 63047	HERITAGE LANGUAGES AND SECOND LANGUAGE LEARNING	

Minimum Total Credit Hours: 21

<sup>1</sup> An assessment of professional dispositions occurs in this course demonstrating Endorsement students' understanding of codes of ethics and professional standards appropriate to TESL and work with English Language Learners. Assessed in this course are competencies such as data literacy and analysis, use of research and assessment data, leadership and collaboration, utilizing and supporting appropriate technology for the discipline, and an understanding of laws related to English Language Learners.

<sup>2</sup> One hundred hours of field work as teacher assistants in area schools enable students to gain collaborative clinical experience as P-12 teachers. Prior to enrollment in clinical fieldwork (ENG 68592), students must be evaluated satisfactorily on non-academic dimensions, including completing background checks and demonstrating basic competency in reading, writing and mathematics. To demonstrate these competencies, students are required to take the Praxis Core tests in Reading, Math, and Writing and/or their GRE equivalents.

## Graduation Requirements

- Minimum 3.000 overall GPA

## Licensure and Endorsement Information

Candidates seeking Ohio teaching licensure are required to pass specific requirements in order to apply for licensure from the Ohio Department of Education (ODE). Students should consult the Special Education Department for specific program requirements and refer to the Ohio Department of Education - Educator Preparation website for more information on assessments specific to licensure type.

## Teaching English as Second Language Endorsement Preparation (Undergraduate Non-Degree)

College of Arts and Sciences

Department of English

113 Satterfield Hall

Kent Campus



330-672-2676  
 english@kent.edu  
 www.kent.edu/english

## Description

The non-degree program in Teaching English as Second Language Endorsement Preparation allows students to concurrently seek an undergraduate degree program leading to state licensure at KSU while also working toward meeting TESL Endorsement requirements of the Ohio Department of Education. The program increases student knowledge of language and second language learning in the P-12 context while it prepares them as teachers of English Learners.

Successful completion of this program serves as recommendation to the Ohio Department of Education for Endorsement in TESL, but it is not a degree program. Student must complete their degree program and be qualified for Licensure in another area of study. The Endorsement serves as an add-on to a state teaching license in Ohio.

### Fully Offered At:

- Kent Campus

## Accreditation

Ohio Department of Education (CAEP)

## Admission Requirements

The university affirmatively strives to provide educational opportunities and access to students with varied backgrounds, those with special talents and adult students who graduated from high school three or more years ago.

**Freshman Students on the Kent Campus:** The freshman admission policy on the Kent Campus is selective. Admission decisions are based upon the following: cumulative grade point average, ACT and/or SAT scores, strength of high school college preparatory curriculum and grade trends. The Admissions Office at the Kent Campus may defer the admission of students who do not meet admissions criteria but who demonstrate areas of promise for successful college study. Deferred applicants may begin their college coursework at one of seven regional campuses of Kent State University. For more information on admissions, including additional requirements for some academic programs, visit the admissions website for new freshmen.

**Freshman Students on the Regional Campuses:** Kent State campuses at Ashtabula, East Liverpool, Geauga, Salem, Stark, Trumbull and Tuscarawas, as well as the Regional Academic Center in Twinsburg, have open enrollment admission for students who hold a high school diploma, GED or equivalent.

**English Language Proficiency Requirements for International Students:** All international students must provide proof of English language proficiency (unless they meet specific exceptions) by earning a minimum 525 TOEFL score (71 on the Internet-based version), minimum 75 MELAB score, minimum 6.0 IELTS score or minimum 48 PTE score, or by completing the ESL level 112 Intensive Program. For more information on international admission, visit the Office of Global Education's admission website.

**Transfer, Transitioning and Former Students:** For more information about admission criteria for transfer, transitioning and former students, please visit the admissions website.

## Program Learning Outcomes

Graduates of the program will be able to:

1. Demonstrate understanding of different fields within teaching English as a second language, including linguistics, language acquisition, pedagogy and practice.
2. Demonstrate understanding of different cultural norms and practices within effective instruction.
3. Demonstrates effective language and literacy instruction for English language learners.

## Program Requirements

### Endorsement REQUIREMENTS

Code	Title	Credit Hours
<b>Endorsement Requirements</b>		
ENG 31001	FUNDAMENTAL ENGLISH GRAMMAR	3
ENG 31003	LINGUISTICS	3
ENG 31005	CHILD SECOND LANGUAGE ACQUISITION	3
ENG 31007	PEDAGOGY FOR TEACHING ENGLISH AS A SECOND LANGUAGE <sup>1</sup>	3
ENG 31008	GRAMMAR FOR TEACHING ENGLISH AS A SECOND/FOREIGN LANGUAGE	3
ENG 41003	LANGUAGE CURRICULUM, MATERIALS AND ASSESSMENT <sup>2</sup>	3
ENG 41192	ESL PRACTICUM IN A P-12 SETTING (ELR) <sup>3</sup>	3
Minimum Total Credit Hours:		21

- <sup>1</sup> An assessment of professional dispositions occurs in this course demonstrating Endorsement students' understanding of codes of ethics and professional standards appropriate to TESL and work with English Language Learners.
- <sup>2</sup> Data literacy and analysis, use of research and assessment data, leadership and collaboration, utilizing and supporting appropriate technology for the discipline, and an understanding of laws related to English Language Learners as assessed in this course.
- <sup>3</sup> Seventy hours of field placements as teacher assistants in area schools enable students to gain collaborative clinical experience as P-12 teachers.

## Department of Geography

### College of Arts and Sciences

Department of Geography  
 413 McGilvrey Hall  
 Kent Campus  
 330-672-2045  
 geography@kent.edu  
 www.kent.edu/geography

## Undergraduate Programs

- Environmental Studies - B.A.
- Geography - B.A.

## Minors

- Climate Change
- Environmental Studies
- Geographic Information Science
- Geography
- Urban Studies

## Graduate Programs

- Geographic Information Science - M.GISc
- Geography - M.S.
- Geography - Ph.D.

## Certificates

### Graduate Certificates

- Environmental Geographic Information Science
- Geographic Information Science

## Department of Geography Faculty

- Amey, Katherine S. (2009), Associate Professor, Ph.D., Kent State University, 2011
- Assal, Timothy J. (2019), Assistant Professor, Ph.D., Colorado State University, 2015
- Cromley, Gordon A. (2013), Assistant Professor, Ph.D., Kent State University, 2019
- Haley, Mary Ann (1993), Assistant Professor
- Kaplan, David H. (1995), Professor, Ph.D., University of Wisconsin, Madison, 1991
- Lee, Jay (1991), Professor, Ph.D., University of Western Ontario, 1989
- Lee, Cameron C. (2008), Assistant Professor, Ph.D., Kent State University, 2014
- Mapes, Jennifer E. (2012), Associate Professor, Ph.D., University of Southern California, 2009
- Munro-Stasiuk, Mandy (1999), Professor, Ph.D., University of Alberta, 1999
- Parylak, Rebecca P. (2008), Associate Professor, Ph.D., Texas State University, San Marcos, 2010
- Post, Christopher (2008), Associate Professor, Ph.D., University of Kansas, 2006
- Schmidlin, Thomas W. (1985), Professor, Ph.D., Cornell University, 1984
- Scholl, Andrew E. (2013), Assistant Professor, Ph.D., Penn State University, 2008
- Sheridan, Scott C. (2000), Professor & Chair, Ph.D., University of Delaware, 2000
- Smiley, Sarah L. (2010), Associate Professor, Ph.D., University of Kansas, 2007
- Turner, Victoria K. (2013), Assistant Professor, Ph.D., Arizona State University, 2013
- Tyner, James A. (1997), Professor, Ph.D., University of Southern California, 1995
- Widner, Emariana S. (2009), Associate Professor, Ph.D., Texas State University, 2009

- Ye, Xinyue (2013), Assistant Professor, Ph.D., San Diego State University, 2010
- Yin, He (2019), Assistant Professor

## Environmental Studies (ENVS)

### ENVS 22070 NATURE AND SOCIETY (KSS) 3 Credit Hours

Environmental studies takes an interdisciplinary approach to studying the environment, with insights from natural sciences, social sciences and the humanities. This course introduces the discipline and explores theoretical approaches to understanding how humans interact with and perceive their environment. It applies these approaches to some of the world's greatest environmental challenges: climate change, the loss of biodiversity, urban sustainability, food and resource insecurity, and the degradation of the physical environment.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Kent Core Social Sciences

### ENVS 30000 ENVIRONMENTAL PROTECTION REGULATIONS AND ASSESSMENT 3 Credit Hours

(Cross-listed with PLST 30000) The Federal and State environmental regulations including the National Environmental Policy Act, the Clean Air Act, the Clean Water Act, Solid and Hazardous Waste regulations (RCRA) and the Superfund Legislation require the utilization of trained environmental professionals to conduct Environmental Site Assessments (ESAs). The focus of this course is to introduce students to the methods and approaches for conducting environmental research and study of industrial sites with respect to environmental policies and regulations. The enforcement of regulations utilize environmental professionals who serve in governmental agencies, work in private environmental companies that provide assessments and consultations for industries, and who are employed by industries that seek qualified employees to conduct assessments, and provide professional guidance for industrial regulatory compliance.

**Prerequisite:** Junior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

### ENVS 30105 CAREER PATHWAYS IN ENVIRONMENTAL STUDIES 1 Credit Hour

Orients students toward various career pathways in Environmental Studies.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 1 lecture

**Grade Mode:** Satisfactory/Unsatisfactory

### ENVS 32091 ENVIRONMENTAL STUDIES AND SUSTAINABILITY 2 Credit Hours

Various aspects of environmental studies are explored. Topics will vary.

**Prerequisite:** ENVS 22070; and junior standing.

**Schedule Type:** Seminar

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**ENVS 42099 INTEGRATIVE SENIOR PROJECT (ELR) (WIC) 2 Credit Hours**

This is the capstone course for the Environmental Studies major. All students in this course will learn about methods of investigation and presentation in the area of Environmental Studies. The course will culminate in a major research project developed and written by each student.

**Prerequisite:** ENVS 22070 and ENVS 32091.

**Schedule Type:** Seminar

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**Attributes:** Experiential Learning Requirement, Writing Intensive Course

**ENVS 46092 INTERNSHIP IN ENVIRONMENTAL STUDIES (ELR) 3-6 Credit Hours**

(Slashed with ENVS 56092) Work experience in local, regional, and national agencies or companies designed to utilize and develop academic and professional skills.

**Prerequisite:** Sophomore standing.

**Schedule Type:** Practical Experience

**Contact Hours:** 9-18 other

**Grade Mode:** Standard Letter

**Attributes:** Experiential Learning Requirement

**ENVS 49195 SPECIAL TOPICS IN ENVIRONMENTAL STUDIES 1-3 Credit Hours**

(Slashed with ENVS 49195) Special topics in Environmental Studies.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3-9 lecture

**Grade Mode:** Standard Letter

**ENVS 56092 INTERNSHIP IN ENVIRONMENTAL STUDIES 3-6 Credit Hours**

(Slashed with ENVS 46092) Work experience in local, regional, and national agencies or companies designed to utilize and develop academic and professional skills.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Practical Experience

**Contact Hours:** 9-18 other

**Grade Mode:** Standard Letter

**ENVS 59195 SPECIAL TOPICS IN ENVIRONMENTAL STUDIES 1-3 Credit Hours**

(Slashed with ENVS 49195) Special topics in Environmental Studies.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3-9 lecture

**Grade Mode:** Standard Letter

## Geography (GEOG)

**GEOG 10160 INTRODUCTION TO GEOGRAPHY 3 Credit Hours**

A broad introduction to the study of geographic patterns on Earth. Course describes and explains spatial patterns of human activity and environmental processes, as well as the interaction between these two realms. Topics include weather, climate, landforms, human-environment interactions, population, culture, economy and politics.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**GEOG 16001 SOIL AND HORTICULTURAL MANAGEMENT 3 Credit Hours**

Course provides students with an understanding of the relationship of soil, nutrients and fertilizers. Students understand how to properly plant trees, shrubs and flowers.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**GEOG 17063 WORLD GEOGRAPHY (DIVG) (KSS) 3 Credit Hours**

An overview of the differences and similarities within and between regions of the world. Students study the impacts of spatial processes as they operate at regional, global and local scales. Course emphasizes the effects of globalization on culture, economies, geopolitical relationships, population and the environment.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Diversity Global, Kent Core Social Sciences, TAG Social and Behavioral Sciences, Transfer Module Social Sciences

**GEOG 17064 GEOGRAPHY OF THE UNITED STATES AND CANADA (DIVD) (KSS) 3 Credit Hours**

An overview of the differences and similarities within and between regions of the United States and Canada. Course focuses on social, economic, settlement and environmental patterns and processes.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Diversity Domestic, Kent Core Social Sciences, Transfer Module Social Sciences

**GEOG 20195 SPECIAL TOPICS IN GEOGRAPHY 1-3 Credit Hours**

(Repeatable for credit) Course explores emerging topics in geography not covered in other existing courses. Topics vary per course offering.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 1-3 lecture

**Grade Mode:** Standard Letter

**GEOG 21062 PHYSICAL GEOGRAPHY (KBS) 3 Credit Hours**

Introduction to the study of the spatial characteristics of the Earth's physical environment, including how humans interact with it. Topics include weather and climate, vegetation, soils, ecosystems, landforms and land-formation processes, human impacts on Earth systems and human societal adaptations to the physical environment.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Kent Core Basic Sciences, TAG Social and Behavioral Sciences, Transfer Module Natural Sciences

**GEOG 21063 PHYSICAL GEOGRAPHY LABORATORY (KBS) (KLAB) 1 Credit Hour**

Course offers practical experience examining physical geographic processes, including the study and manipulation of map projections, Earth-sun relationships and experiments relating to the atmosphere, biosphere, lithosphere and hydrosphere. This laboratory course is taught in conjunction with the lecture and is designed to expand and reinforce concepts discussed in lecture through hands-on activities.

**Corequisite:** GEOG 21062.

**Schedule Type:** Laboratory

**Contact Hours:** 2 lab

**Grade Mode:** Standard Letter

**Attributes:** Kent Core Basic Sciences, Kent Core Basic Sciences Lab, Transfer Module Natural Sciences

**GEOG 22040 INTRODUCTION TO GLOBAL TOURISM (DIVG) 3 Credit Hours**

(Cross-listed with RPTM 26060) Introduction to travel and tourism around the world. Students study tourism technologies and cultural and natural environments as attractions, benefits of travel, travel ethics and sustainable development.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Diversity Global

**GEOG 22061 HUMAN GEOGRAPHY (DIVG) (KSS) 3 Credit Hours**

Introduction to the spatial patterns and processes of human activity on Earth. Course examines how humans understand and interact with the world. Students consider how cities are structured; economic and cultural differences; the interaction between politics and identity; and the environmental consequences of human activities.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Diversity Global, Kent Core Social Sciences, TAG Social and Behavioral Sciences, Transfer Module Social Sciences

**GEOG 29160 MAPPING OUR WORLD 3 Credit Hours**

Course is a first step for students to understand the importance of maps. Students are exposed to case studies and various mapping techniques that allow them to learn both the fundamentals of cartography and spatial data, and how people solve real-life problems using maps.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** TAG Social and Behavioral Sciences

**GEOG 31062 FUNDAMENTALS OF METEOROLOGY 3 Credit Hours**

Analysis of weather elements emphasizing energy exchanges and controls and atmospheric circulation. Course highlights the methods of weather prediction and people's modification of weather.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**GEOG 31064 PRINCIPLES OF CLIMATOLOGY 3 Credit Hours**

A study of the physical processes causing the distribution of world climates. Focus on local and urban climates, climatic change and societal impacts of climate.

**Prerequisite:** GEOG 31062.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**GEOG 31070 POPULATION AND THE ENVIRONMENT 3 Credit Hours**

Course examines the interrelations of population growth, resource depletion and the environment from a geographic perspective, including the principal themes of space and place.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**GEOG 31080 GEOGRAPHY OF WINE 3 Credit Hours**

Examines the physical environment of viticulture, including climate, soil and farm practices; the cultural tradition of wine making, consumption and trade; and regional production styles.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**GEOG 31088 ENVIRONMENTAL GEOGRAPHY THROUGH FILM 3 Credit Hours**

Cinema combines the art of storytelling and creation of landscape in such a way as to capture artifacts of the culture from which films emerge and as such, document in some way cultural, social and political history and experiences. In the course, films are used to examine environmental issues and processes in their social and cultural context.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**GEOG 32023 CAMPUS AND COMMUNITY GARDENS (ELR) 3 Credit Hours**

Course gives students a working knowledge in, and ability to understand and analyze, the intersections of food production, access and consumption. Course enables students to apply a critical geographic lens to compare the traditional food production system with alternatives at various scales, from local to global. Students focus on urban community gardening as one such alternative and personally interact with the Stark Campus' Flash's Food Garden as a case study in planning and preparing such a garden. Course combines lectures, discussions of scholarly publications, field trips, guest lectures and the hands-on experiential learning.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Experiential Learning Requirement

**GEOG 32080 POLITICS AND PLACE (DIVG) 3 Credit Hours**

Spatial aspects of political behavior as manifested in boundary changes, the sizes of states, interstate relations and spatial organization.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Diversity Global

**GEOG 34070 ECONOMIC GEOGRAPHY 3 Credit Hours**

Examines economic patterns at global, national, regional and local scales. Focus of course goes beyond space to place, with the recognition that these patterns are socially produced and, as such, change over time. Students examine economic models and theories from a spatial perspective, but with a strong focus on real-life outcomes, debates and challenges.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**GEOG 35065 GEOGRAPHY OF TRANSPORTATION AND SPATIAL INTERACTION 3 Credit Hours**

Course examines spatial interaction; the study of flows, networks and integrated systems at different spatial scales; transport and economic development; and models and methods of analysis.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**GEOG 36065 CITIES AND URBANIZATION (DIVG) 3 Credit Hours**

Course examines what is a city, how it has evolved over time under changing economic conditions, what is its internal structure and how this has been influenced by transportation developments. Special attention is paid to the causes and consequences of social diversity within the city and how cities differ throughout the world.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Diversity Global

**GEOG 37010 GEOGRAPHY OF OHIO 3 Credit Hours**

Study of Ohio as a distinctive region, its environment and the varied characteristics of its population, its historical geographic development and contemporary patterns and problems.

**Prerequisite:** Junior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**GEOG 37040 GEOGRAPHY OF AFRICA (DIVG) 3 Credit Hours**

Course covers the complex geographical and cultural elements in Africa and demonstrates how the interaction of these elements has affected Africa's linkages to other continents, especially North America. Students discuss how this diversity has affected Africa's economic development and political evolution.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Diversity Global

**GEOG 37045 GEOGRAPHY OF THE MIDDLE EAST 3 Credit Hours**

The Middle East is a world region where the interactions between human and physical geographies have shaped its history, culture, economies and population patterns. The course uses a thematic approach to understand these interactions and how they shape the modern Middle East and its relationship with the wider world.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**GEOG 37050 GEOGRAPHY OF RUSSIA AND THE COMMONWEALTH OF INDEPENDENT STATES (DIVG) 3 Credit Hours**

Study of the physical, economical, political and cultural geography of Russia, Ukraine, Central Asia and other components of the former Soviet Union.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Diversity Global

**GEOG 37066 GEOGRAPHY OF EUROPE (DIVG) 3 Credit Hours**

Europe is unique in terms of its historical cultural influence around the world, but over recent decades, Europe has undergone significant change and experienced many struggles. The attempts to integrate have led to significant debates about just what it means to be "European." This course covers Europe using a systematic approach. Students study the physical, political, religious, linguistic, social and economic environments within Europe. In addition, students explore the issues that tie Europeans to each other and to the outside world. Students sum up many of these aspects with case studies of nations or regions that typify the issues that face Europe today.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Diversity Global

**GEOG 37070 GEOGRAPHY OF EAST AND SOUTHEAST ASIA (DIVG) 3 Credit Hours**

Analysis of the physical and cultural geography of East and Southeast Asia, extending from Japan and China to Burma and Indonesia.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Diversity Global

**GEOG 37072 GEOGRAPHY OF CHINA 3 Credit Hours**

Provides an overview of China's physical environment, natural and human resources, social, economic and cultural characteristics, and its roles in today's global environment. Offers a comprehensive view of China's historical development and contemporary trends of growth and how it impacts the United States.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**GEOG 37084 GEOGRAPHY OF SOUTH AMERICA (DIVG) 3 Credit Hours**

Overview of region and survey of each country emphasizes systematic similarities and differences in physical environment, culture, economic development, population, land use, politics and history.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Diversity Global



**GEOG 37085 GEOGRAPHY OF LATIN AMERICA AND THE CARIBBEAN (DIVG) 3 Credit Hours**

Latin America and the Caribbean is a traditional geographic region that has been uniquely shaped through multiple physical and cultural factors. Course takes a thematic approach to understanding the interplay of these factors and how they shape modern Latin America-Caribbean identity; the diversity of the environment and culture within the region; and how the region relates to the rest of the world.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Diversity Global

**GEOG 37095 SPECIAL TOPICS IN REGIONAL GEOGRAPHY 3 Credit Hours**

(Repeatable for a maximum of 3 times) Special topics course in a specific region of the world. Topics vary per course offering.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**GEOG 39002 STATISTICAL METHODS IN GEOGRAPHY 3 Credit Hours**

Explores probability theory, spatial statistics, estimation procedures, hypothesis testing, spatial sampling, methods of areal association and regression analysis. Geographic applications are emphasized.

**Prerequisite:** MATH 10041 or MATH 11009 or MATH 11010.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**GEOG 40093 VARIABLE TITLE WORKSHOP IN GEOGRAPHY 1-6 Credit Hours**

(Repeatable for credit) Workshop topics vary per course offering.

**Prerequisite:** Special approval.

**Schedule Type:** Workshop

**Contact Hours:** 1-6 other

**Grade Mode:** Satisfactory/Unsatisfactory

**GEOG 40191 SEMINAR IN GEOGRAPHY (ELR) (WIC) 3 Credit Hours**

(Repeatable for a maximum of 6 credit hours) Advanced study of the historical development of geography and of contemporary issues in the field. Emphasis on methods of geographic investigation and presentation of results.

**Prerequisite:** Geography major; and junior standing.

**Schedule Type:** Seminar

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**Attributes:** Experiential Learning Requirement, Writing Intensive Course

**GEOG 40192 PRACTICUM IN GEOGRAPHY (ELR) 1-3 Credit Hours**

(Repeatable for credit) Practical experience in using or teaching geographic techniques and/or problem-solving. Faculty supervise the practicum.

**Prerequisite:** Special approval.

**Schedule Type:** Practical Experience

**Contact Hours:** 1-3 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**Attributes:** Experiential Learning Requirement

**GEOG 40195 SPECIAL TOPICS IN GEOGRAPHY 1-3 Credit Hours**

(Repeatable for credit)(Slashed with GEOG 50195 and GEOG 70195)

Topics vary according to research interest of the instructor.

**Prerequisite:** Special approval.

**Schedule Type:** Lecture

**Contact Hours:** 1-3 lecture

**Grade Mode:** Standard Letter

**GEOG 40292 FIELD EXPERIENCE IN GEOGRAPHY (ELR) 1-6 Credit Hours**

(Repeatable for credit)(Slashed with GEOG 50292 and GEOG 70292)

Examination of geographic landscapes in the field.

**Prerequisite:** Special approval.

**Schedule Type:** Field Experience

**Contact Hours:** 12-72 other

**Grade Mode:** Satisfactory/Unsatisfactory

**Attributes:** Experiential Learning Requirement

**GEOG 40392 PRACTICUM IN EMERGING GEOGRAPHIC TRENDS (ELR) 1-6 Credit Hours**

(Repeatable for credit) Students undertake a practicum to examine newly emerging geographic topics and techniques.

**Prerequisite:** Special approval.

**Schedule Type:** Practical Experience

**Contact Hours:** 1-6 other

**Grade Mode:** Satisfactory/Unsatisfactory

**Attributes:** Experiential Learning Requirement

**GEOG 40492 STUDY AWAY IN GEOGRAPHY (ELR) 1-3 Credit Hours**

(Repeatable for maximum 6 attempts)(Slashed with GEOG 50492 and GEOG 70492) Examination of geographic landscapes in the field.

**Prerequisite:** None.

**Schedule Type:** Field Experience

**Contact Hours:** 3-9 other

**Grade Mode:** Standard Letter

**Attributes:** Experiential Learning Requirement

**GEOG 40996 INDIVIDUAL INVESTIGATION IN GEOGRAPHY 1-3 Credit Hours**

(Repeatable for credit) Students undertake an investigation or research on specific geographical problems.

**Prerequisite:** Special approval.

**Schedule Type:** Individual Investigation

**Contact Hours:** 1-3 other

**Grade Mode:** Standard Letter-IP

**GEOG 41051 NATURAL DISASTERS AND SOCIETY 3 Credit Hours**

(Slashed with GEOG 51051 and GEOG 71051) Study of natural disasters; the physical causes of the hazards associated with the disasters; their effects on humans and societies; spatial and temporal distributions; and strategies to reduce the occurrences of disasters. Natural disasters include hurricanes, tornadoes, floods, landslides, heat waves, wildfire, blizzards, earthquakes, tsunami and volcanoes. Mitigation for disasters and responses to disasters are studied across economically developing nations and developed nations. Students learn through the analysis of numerous case studies of natural disasters.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**GEOG 41052 GLACIERS AND GLACIATION 3 Credit Hours**

(Slashed with GEOG 51052, GEOG 71052)(Cross-listed with GEOL 44052, GEOL 54052, GEOL 74052) Examination of how glacial ice masses change the shape of the Earth's surface, how they are integral to climate and sea level change, and how they pose high risk hazards.

**Prerequisite:** GEOG 21062 or GEOL 11040.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**GEOG 41065 APPLIED CLIMATOLOGY 3 Credit Hours**

(Slashed with GEOG 51065 and GEOG 71065) Course aims to provide a full appreciation for the range of applicability of climate data to real-world problems. There are three overarching goals of the course: (1) To provide a broad overview of what weather and climate information is out there and how people synthesize weather and climate information for use in applied work; (2) to enable a thorough appreciation for the breadth of disciplines in which applied climatology plays a role; and (3) to provide real-world experience of working through an applied climatological problem, via a final project.

**Prerequisite:** GEOG 31062 or GEOG 31064.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**GEOG 41066 GLOBAL CLIMATE CHANGE 3 Credit Hours**

(Slashed with GEOG 51066 and GEOG 71066) Examination of the evidence and causes of climate change and how these data are assessed. Students discuss past, present and future impacts of climate change and variability, in addition to policy implications.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**GEOG 41073 CONSERVATION OF NATURAL RESOURCES 3 Credit Hours**

(Slashed with GEOG 51073 and GEOG 71073) Evaluation of past and current problems associated with the management of natural resources and the environments associated with their utilization.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**GEOG 41074 RESOURCE GEOGRAPHY 3 Credit Hours**

(Slashed with GEOG 51074 and GEOG 71074) Culture-technology and distance in relation to resource adequacy and management concepts for societal decisions about common property and situations with external economies.

**Prerequisite:** Junior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**GEOG 41077 WATER AND SOCIETY 3 Credit Hours**

(Slashed with GEOG 51077 and GEOG 71077) This course examines the relationships between water and the world's population with an emphasis on the developing world (Africa, Asia, Middle East, and Latin America). Students will analyze how water impacts humans and how humans impact water. The course begins by introducing the hydro-social cycle and network theories to provide a foundation and framework to understand the four primary course themes: water policy and governance (including privatization, public-private partnerships, and the various United Nations' global water initiatives), water as power (including social power and how governments politicize water), flooding and droughts (including vulnerabilities, adaptations, and mitigations), and inequalities (including on gender, quality, access, and affordability). The course concludes by revisiting these themes and applying ideas of water justice and sustainability. The course is primarily discussion based with limited lectures to ensure students understand key concepts.

**Prerequisite:** Junior standing or above.

**Schedule Type:** Seminar

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**GEOG 41082 GEOGRAPHY OF SOILS 3 Credit Hours**

(Slashed with GEOG 51082 and GEOG 71082) An edaphological approach to soils, including morphology, formation, classification, geographical distribution and utilization. Students will be required to undertake field work.

**Prerequisite:** GEOG 21062 or GEOL 11040.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**GEOG 41195 SPECIAL TOPICS IN ENVIRONMENTAL GEOGRAPHY 1-3 Credit Hours**

(Repeatable for a maximum 10 times)(Slashed with GEOG 51195 and GEOG 71195) Topics vary per course offering.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 1-3 lecture

**Grade Mode:** Standard Letter

**GEOG 41800 GLOBAL ENVIRONMENTAL ISSUES 3 Credit Hours**

(Slashed with GEOG 51800 and GEOG 71800) Course examines environmental belief systems and explores various perceptions of the Earth's environment and its opportunities, constraints and risks. The goals of the course is twofold: (1) develop a framework to allow students to explore both their own relationship to the environment and to understand the sociocultural constructs that have informed their personal environmental beliefs; and (2) apply this knowledge to critically assess various stakeholder perspectives of specific environmental issues.

**Prerequisite:** None.

**Schedule Type:** Seminar

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**GEOG 42040 TOURISM DEVELOPMENT AND RECREATIONAL TRAVEL 3 Credit Hours**

(Cross-listed with RPTM 46000, RPTM 56000) Investigation of travel and tourism development using an interdisciplinary social science approach.

**Prerequisite:** RPTM 36060.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**GEOG 42052 MEDICAL GEOGRAPHY 3 Credit Hours**

(Slashed with GEOG 52052 and GEOG 72052) Course explores the interconnection between geography and health. From a spatial perspective, student consider past and present epidemics, global health risks and their variation, the link between disasters and disease and the factors leading to health disparities.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**GEOG 42053 GEOGRAPHIES OF MEMORY AND HERITAGE 3 Credit Hours**

(Slashed with GEOG 52053 and GEOG 72053) Course gives students a working knowledge in, and ability to understand and analyze, the intersection of memory and landscape as a tangible re-presentation of the human past, oftentimes used as a tangible expression of cultural or political power. Students focus on memorialization, preservation and tourism concepts and themes.

**Prerequisite:** Junior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**GEOG 42064 SETTLING THE NORTH AMERICAN ENVIRONMENT 3 Credit Hours**

(Slashed with GEOG 52064 and GEOG 72064) Course surveys the environmental changes of the North American continent brought about by Indigenous, European Colonial and American land use practices, from pre-Columbian times to present. Students engage with foundational historical narratives, evidence and methods for understanding these geographic pasts. Course is a combination of lectures and discussions of readings and in-class activities.

**Prerequisite:** Junior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**GEOG 42070 SEMINAR IN ETHNIC, LIFESTYLE AND NATIONAL COMMUNITIES 3 Credit Hours**

(Slashed with GEOG 52070 and GEOG 72070) Covers the geographies of ethnic identity and nationalism, national identity and territory, borderlands and diasporas, national separatism and the variety of ways in which cultural difference asserts itself.

**Prerequisite:** Junior standing; and special approval.

**Schedule Type:** Seminar

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**GEOG 42195 SPECIAL TOPICS IN SOCIAL GEOGRAPHY 1-3 Credit Hours**

(Repeatable for maximum 10 times)(Slashed with GEOG 52195 and 72195) Topics vary per course offering.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 1-3 lecture

**Grade Mode:** Standard Letter

**GEOG 44010 GEOGRAPHY OF THE GLOBAL ECONOMY (WIC) 3 Credit Hours**

(Slashed with GEOG 54010 and GEOG 74010) Geographic analysis of the increasing inter-connectedness of economic activity. Students discuss the social, technological and political changes associated with globalization.

**Prerequisite:** ECON 22061 or GEOG 34070.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Writing Intensive Course

**GEOG 44070 SPATIAL ANALYSIS AND LOCATION THEORY 3 Credit Hours**

(Slashed with GEOG 54070 and GEOG 74070) Classical theories for location of economic activities and contemporary approach of spatial analysis, spatial organization of economic systems behavioral models in economic geography spatial allocation problems.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**GEOG 45085 URBAN TRANSPORTATION 3 Credit Hours**

(Slashed with GEOG 55085 and GEOG 75085) Transportation may be the single most important force shaping cities. Historically, cities have depended on their access to ports, canals, railroads and highways. Today, transportation networks, the use of public transportation, provisions for bicycles and pedestrians and transportation architecture continue to define how a city looks, feels and acts.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**GEOG 46070 URBAN AND REGIONAL PLANNING 3 Credit Hours**

(Slashed with GEOG 56070 and GEOG 76070) Examines how cities develop and what "people" – through government, quasi-public institutions and private interests – can do to modify urban growth, the distribution of people and places and urban design.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**GEOG 46080 URBAN SUSTAINABILITY 3 Credit Hours**

(Slashed with GEOG 56080 and GEOG 76080) Provides an introduction to interdisciplinary perspectives on urban sustainability, focusing on environmental challenges caused by urbanization and the innovative ways urban dwellers seek to address those challenges. Course provides background on relevant disciplinary perspectives and their application to environmental challenge domains.

**Prerequisite:** None.

**Schedule Type:** Lecture, Seminar

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**GEOG 46081 SEMINAR IN URBAN GEOGRAPHY 3 Credit Hours**

(Slashed with GEOG 56081 and GEOG 76081) Through class discussions and readings, students gain a better understanding of the various issues, projects and paradigms that make up the field of urban geography.

**Prerequisite:** Junior standing; and special approval.

**Schedule Type:** Seminar

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**GEOG 46092 INTERNSHIP IN GEOGRAPHY AND PLANNING (ELR)****3-6 Credit Hours**

(Repeatable for credit) Pre-professional work experience in local, regional and environmental planning agencies and in business designed to utilize and develop academic skills. Registration into the course is competitive based on student's skills and interests and on number of positions available.

**Prerequisite:** Special approval.

**Schedule Type:** Practical Experience

**Contact Hours:** 3-6 other

**Grade Mode:** Standard Letter

**Attributes:** Experiential Learning Requirement

**GEOG 49070 GEOGRAPHIC INFORMATION SCIENCE 4 Credit Hours**

(Slashed with GEOG 59070 and GEOG 79070) Introduction to theories and methods for geographic data processing, including data capture and input data storage and management and data analysis and displays. Emphasis is on laboratory exercises using GIS software packages for real-world applications.

**Prerequisite:** None.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 3 lecture, 2 lab

**Grade Mode:** Standard Letter

**GEOG 49072 GEOGRAPHIC INFORMATION SCIENCE AND HEALTH 3 Credit Hours**

(Slashed with GEOG 59072 and GEOG 79072) Geographic theory and methods serve as the connection among disparate disciplines focused on how and why "health" varies between regions, cities and neighborhoods. Students examine how geospatial technologies, especially GIS, have become an important health analysis tool.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**GEOG 49075 GEOGRAPHIC INFORMATION SCIENCE: APPLICATIONS FOR SOCIAL PROBLEMS 3 Credit Hours**

(Slashed with GEOG 59075 and GEOG 79075) Course provides a survey of geographic information system (GIS) and related mapping applications that are used to understand and solve a variety of social problems (e.g., crime, poor health and educational outcomes, exposure to environmental hazards). Through case studies, students learn spatial data acquisition, basic spatial analysis and forms of map-based visual communication to stakeholders and the general public.

**Prerequisite:** GEOG 49070.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**GEOG 49076 SPATIAL PROGRAMMING 3 Credit Hours**

(Slashed with GEOG 59076 and GEOG 79076) Examination of the design, development and use of geographic information technologies with computer programming to model, process and visualize geographic phenomena.

**Prerequisite:** GEOG 49070.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**GEOG 49078 GEOGRAPHIC INFORMATION SCIENCE AND ENVIRONMENTAL HAZARDS 3 Credit Hours**

(Slashed with GEOG 59078 and GEOG 79078) The study and management of natural hazards are inherently reliant on both physical and human processes and spatial patterns. Given the many variables involved and the variety of scales at which they operate, use of geographic information system (GIS) has become standard practice in research on hazards and in their management by government agencies at all levels. Students are exposed to a wide array of spatial data that is used in these activities, as well as standard mapping and spatial analysis procedures and forms of data dissemination.

**Prerequisite:** GEOG 49070.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**GEOG 49080 ADVANCED GEOGRAPHIC INFORMATION SCIENCE 3 Credit Hours**

(Slashed with GEOG 59080 and GEOG 79080) Provides both an overview of geographic information science (GIS) data structures, analytical functions and usage and modeling approaches. Students learn how to manage GIS data in different formats or projections; select GIS analytical tools for solving different problems; and model changes of geographical phenomena as represented by GIS data.

**Prerequisite:** GEOG 49070.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**GEOG 49085 WEB AND MOBILE GEOGRAPHIC INFORMATION SCIENCE 3 Credit Hours**

(Slashed with GEOG 59085 and GEOG 79085) Explores how web and mobile phones present opportunities and challenges to the field of geographic information science (GIS). This includes the examination of the use, design and development of cyberinfrastructure-enabled GIS emphasizing web- and mobile-based interfaces and technologies. Students are recommended to have GIS experience to enroll in the course.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**GEOG 49098 RESEARCH IN GEOGRAPHIC INFORMATION TECHNOLOGY (ELR) 1-3 Credit Hours**

(Repeatable for credit) Students undertake individual research on a topic in geographic information technology.

**Prerequisite:** Special approval.

**Schedule Type:** Research

**Contact Hours:** 1-3 other

**Grade Mode:** Standard Letter-IP

**Attributes:** Experiential Learning Requirement

**GEOG 49162 CARTOGRAPHY 3 Credit Hours**

(Slashed with GEOG 59162 and GEOG 79162) Study of the design and production of dynamic, interactive, multimedia web-based mapping. Data acquisition and processing, symbolization, composition, text and color utilization.

**Prerequisite:** GEOG 49070.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter



**GEOG 49195 SPECIAL TOPICS IN GEOGRAPHIC INFORMATION SCIENCE 1-3 Credit Hours**

(Repeatable for maximum 10 times)(Slashed with GEOG 59195 and GEOG 79195) Topics vary per course offering.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 1-3 lecture

**Grade Mode:** Standard Letter

**GEOG 49198 RESEARCH IN CARTOGRAPHY AND GEOGRAPHIC INFORMATION SYSTEMS (ELR) 1-3 Credit Hours**

(Repeatable for credit) Students undertake individual research on a topic in cartography or geographic information science (GIS) under the direction of a faculty member.

**Prerequisite:** Special approval.

**Schedule Type:** Research

**Contact Hours:** 1-3 other

**Grade Mode:** Standard Letter

**Attributes:** Experiential Learning Requirement

**GEOG 49230 REMOTE SENSING 3 Credit Hours**

(Cross-listed with GEOL 42030, GEOL 52030, GEOL 72030) (Slashed with GEOG 59230, GEOG 79230) Computer analysis of multispectral satellite datasets. Applications in terrestrial Earth science are emphasized.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**GEOG 50093 VARIABLE TITLE WORKSHOP IN GEOGRAPHY 1-5 Credit Hours**

(Repeatable for credit) Variable title workshop in geography.

**Prerequisite:** Graduate standing.

**Schedule Type:** Workshop

**Contact Hours:** 1-5 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**GEOG 50195 SPECIAL TOPICS IN GEOGRAPHY 1-3 Credit Hours**

(Repeatable for credit)(Slashed with GEOG 40195 and GEOG 70195) Topics vary according to research interest of the instructor.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 1-3 lecture

**Grade Mode:** Standard Letter

**GEOG 50292 FIELD EXPERIENCE IN GEOGRAPHY 1-6 Credit Hours**

(Repeatable for credit)(Slashed with GEOG 40292 and GEOG 70292) Examination of geographic landscapes in the field.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Field Experience

**Contact Hours:** 12-72 other

**Grade Mode:** Satisfactory/Unsatisfactory

**GEOG 50392 PRACTICUM IN EMERGING GEOGRAPHIC TRENDS 1-6 Credit Hours**

(Repeatable for credit) Students undertake a practicum examining newly emerging geographic topics and techniques.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Practical Experience

**Contact Hours:** 1-6 other

**Grade Mode:** Satisfactory/Unsatisfactory

**GEOG 50492 STUDY AWAY IN GEOGRAPHY 1-3 Credit Hours**

(Repeatable for maximum 6 attempts)(Slashed with GEOG 40492 and GEOG 70492) Examination of geographic landscapes in the field.

**Prerequisite:** Graduate standing.

**Schedule Type:** Field Experience

**Contact Hours:** 3-9 other

**Grade Mode:** Standard Letter

**GEOG 51051 NATURAL DISASTERS AND SOCIETY 3 Credit Hours**

(Slashed with GEOG 41051 and GEOG 71051) Study of natural disasters; the physical causes of the hazards associated with the disasters; their effects on humans and societies; spatial and temporal distributions; and strategies to reduce the occurrences of disasters. Natural disasters include hurricanes, tornadoes, floods, landslides, heat waves, wildfire, blizzards, earthquakes, tsunami and volcanoes. Mitigation for disasters and responses to disasters are studied across economically developing nations and developed nations. Students learn through the analysis of numerous case studies of natural disasters.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**GEOG 51052 GLACIERS AND GLACIATION 3 Credit Hours**

(Cross-listed with GEOL 54052, GEOL 44052, GEOL 74052) (Slashed with GEOG 41052, GEOG 71052) Examination of how glacial ice masses change the shape of the earth's surface, how they are integral to climate and sea level change, and how they pose high risk hazards.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**GEOG 51065 APPLIED CLIMATOLOGY 3 Credit Hours**

(Slashed with GEOG 41065 and GEOG 71065) Course aims to provide a full appreciation for the range of applicability of climate data to real-world problems. There are three overarching goals of the course: (1) To provide a broad overview of what weather and climate information is out there and how people synthesize weather and climate information for use in applied work; (2) to enable a thorough appreciation for the breadth of disciplines in which applied climatology plays a role; and (3) to provide real-world experience of working through an applied climatological problem, via a final project.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**GEOG 51066 GLOBAL CLIMATE CHANGE 3 Credit Hours**

(Slashed with GEOG 41066 and GEOG 71066) Examination of the evidence and causes of climate change and how these data are assessed. Students discuss past, present and future impacts of climate change and variability, in addition to policy implications.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter



**GEOG 51073 CONSERVATION OF OUR NATURAL RESOURCES 3 Credit Hours**

(Slashed with GEOG 41073 and GEOG 71073) Evaluation of past and current problems associated with the management of natural resources and the environments associated with their utilization.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**GEOG 51074 RESOURCE GEOGRAPHY 3 Credit Hours**

(Slashed with GEOG 41074 and GEOG 71074) Culture-technology and distance in relation to resource adequacy and management concepts for societal decisions about common property and situations with external economies.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**GEOG 51077 WATER AND SOCIETY 3 Credit Hours**

(Slashed with GEOG 41077 and GEOG 71077) This course examines the relationships between water and the world's population with an emphasis on the developing world (Africa, Asia, Middle East, and Latin America). Students will analyze how water impacts humans and how humans impact water. The course begins by introducing the hydro-social cycle and network theories to provide a foundation and framework to understand the four primary course themes: water policy and governance (including privatization, public-private partnerships, and the various United Nations' global water initiatives), water as power (including social power and how governments politicize water), flooding and droughts (including vulnerabilities, adaptations, and mitigations), and inequalities (including on gender, quality, access, and affordability). The course concludes by revisiting these themes and applying ideas of water justice and sustainability. The course is primarily discussion-based with limited lectures to ensure students understand key concepts.

**Prerequisite:** Graduate standing.

**Schedule Type:** Seminar

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**GEOG 51082 GEOGRAPHY OF SOILS 3 Credit Hours**

(Slashed with GEOG 41082 and GEOG 71082) An edaphological approach to soils, including morphology, formation, classification, geographical distribution and utilization. Students will be required to undertake field work.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**GEOG 51195 SPECIAL TOPICS IN ENVIRONMENTAL GEOGRAPHY 1-3 Credit Hours**

(Repeatable for a maximum 10 times)(Slashed with GEOG 41195 and GEOG 71195) Topics vary per course offering.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 1-3 lecture

**Grade Mode:** Standard Letter

**GEOG 51800 GLOBAL ENVIRONMENTAL ISSUES 3 Credit Hours**

(Slashed with GEOG 41800 and GEOG 71800) Course examines environmental belief systems and explores various perceptions of the Earth's environment and its opportunities, constraints and risks. The goals of the course is twofold: (1) develop a framework to allow students to explore both their own relationship to the environment and to understand the sociocultural constructs that have informed their personal environmental beliefs; and (2) apply this knowledge to critically assess various stakeholder perspectives of specific environmental issues.

**Prerequisite:** Graduate standing.

**Schedule Type:** Seminar

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**GEOG 52052 MEDICAL GEOGRAPHY 3 Credit Hours**

(Slashed with GEOG 42052 and GEOG 72052) Course explores the interconnection between geography and health. From a spatial perspective, student consider past and present epidemics, global health risks and their variation, the link between disasters and disease and the factors leading to health disparities.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**GEOG 52053 GEOGRAPHIES OF MEMORY AND HERITAGE 3 Credit Hours**

(Slashed with GEOG 42053 and GEOG 72053) Course gives students a working knowledge in, and ability to understand and analyze, the intersection of memory and landscape as a tangible re-presentation of the human past, oftentimes used as a tangible expression of cultural or political power. Students focus on memorialization, preservation and tourism concepts and themes.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**GEOG 52064 SETTLING THE NORTH AMERICAN ENVIRONMENT 3 Credit Hours**

(Slashed with GEOG 42064 and GEOG 72064) Course surveys the environmental changes of the North American continent brought about by Indigenous, European Colonial and American land use practices, from pre-Columbian times to present. Students engage with foundational historical narratives, evidence and methods for understanding these geographic pasts. Course is a combination of lectures and discussions of readings and in-class activities.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**GEOG 52070 SEMINAR IN ETHNIC, LIFESTYLE AND NATIONAL COMMUNITIES 3 Credit Hours**

(Slashed with GEOG 42070 and GEOG 72070) Covers the geographies of ethnic identity and nationalism, national identity and territory, borderlands and diasporas, national separatism and the variety of ways in which cultural difference asserts itself.

**Prerequisite:** Graduate standing.

**Schedule Type:** Seminar

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**GEOG 52195 SPECIAL TOPICS IN SOCIAL GEOGRAPHY 1-3 Credit Hours**

(Repeatable for a maximum 10 times)(Slashed with GEOG 42195 and GEOG 72195) Topics vary per course offering.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 1-3 lecture

**Grade Mode:** Standard Letter

**GEOG 54010 GEOGRAPHY OF THE GLOBAL ECONOMY 3 Credit Hours**

(Slashed with GEOG 44010 and GEOG 74010) Geographic analysis of the increasing inter-connectedness of economic activity. Students discuss the social, technological and political changes associated with globalization.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**GEOG 54070 SPATIAL ANALYSIS AND LOCATION THEORY 3 Credit Hours**

(Slashed with GEOG 44070 and GEOG 74070) Classical theories for location of economic activities and contemporary approach of spatial analysis, spatial organization of economic systems behavioral models in economic geography and spatial allocation problems.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**GEOG 55085 URBAN TRANSPORTATION 3 Credit Hours**

(Slashed with GEOG 45085 and GEOG 75085) Transportation may be the single most important force shaping cities. Historically, cities have depended on their access to ports, canals, railroads and highways. Today, transportation networks, the use of public transportation, provisions for bicycles and pedestrians and transportation architecture continue to define how a city looks, feels and acts.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**GEOG 56070 URBAN AND REGIONAL PLANNING 3 Credit Hours**

(Slashed with GEOG 46070 and GEOG 76070) Examines how cities develop and what "people" – through government, quasi-public institutions and private interests – can do to modify urban growth, the distribution of people and places and urban design.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**GEOG 56080 URBAN SUSTAINABILITY 3 Credit Hours**

(Slashed with GEOG 46080 and GEOG 76080) Provides an introduction to interdisciplinary perspectives on urban sustainability, focusing on environmental challenges caused by urbanization and the innovative ways urban dwellers seek to address those challenges. Course provides background on relevant disciplinary perspectives and their application to environmental challenge domains.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture, Seminar

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**GEOG 56081 SEMINAR IN URBAN GEOGRAPHY 3 Credit Hours**

(Slashed with GEOG 46081 and GEOG 76081) Through class discussions and readings, students gain a better understanding of the various issues, projects and paradigms that make up the field of urban geography.

**Prerequisite:** Graduate standing.

**Schedule Type:** Seminar

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**GEOG 56092 INTERNSHIP IN GEOGRAPHY AND PLANNING 3-6 Credit Hours**

(Repeatable for credit) Pre-professional work experience in local, regional and environmental planning agencies and private business designed to utilize and develop academic skills.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Practical Experience

**Contact Hours:** 3-6 other

**Grade Mode:** Standard Letter

**GEOG 59070 GEOGRAPHIC INFORMATION SCIENCE 4 Credit Hours**

(Slashed with GEOG 49070 and GEOG 79070) Introduction to theories and methods for geographic data processing, including data capture and input, data storage and management and data analysis and displays. Emphasis is on laboratory exercises using GIS software packages for real-world applications.

**Prerequisite:** Graduate standing.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 3 lecture, 2 lab

**Grade Mode:** Standard Letter

**GEOG 59071 FUNDAMENTALS OF GEOGRAPHIC INFORMATION SCIENCE I 3 Credit Hours**

Introduction to fundamental concepts and methods for geographic data analysis, including data capture and input, data storage and management, and data analysis and display. Emphasis is on applications of GIS software to real world issues.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**GEOG 59072 GEOGRAPHIC INFORMATION SCIENCE AND HEALTH 3 Credit Hours**

(Slashed with GEOG 49072 and GEOG 79072) Geographic theory and methods serve as the connection among disparate disciplines focused on how and why "health" varies between regions, cities and neighborhoods. Students examine how geospatial technologies, especially GIS, have become an important health analysis tool.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**GEOG 59075 GEOGRAPHIC INFORMATION SCIENCE: APPLICATIONS FOR SOCIAL PROBLEMS 3 Credit Hours**

(Slashed with GEOG 49075 and GEOG 79075) Course provides a survey of geographic information system (GIS) and related mapping applications that are used to understand and solve a variety of social problems (e.g., crime, poor health and educational outcomes, exposure to environmental hazards). Through case studies, students learn spatial data acquisition, basic spatial analysis and forms of map-based visual communication to stakeholders and the general public.

**Prerequisite:** GEOG 49070 or GEOG 59070 or GEOG 59071; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**GEOG 59076 SPATIAL PROGRAMMING 3 Credit Hours**

(Slashed with GEOG 49076 and GEOG 79076) Examination of the design, development and use of geographic information technologies with computer programming to model, process and visualize geographic phenomena.

**Prerequisite:** GEOG 59070; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**GEOG 59078 GEOGRAPHIC INFORMATION SCIENCE AND ENVIRONMENTAL HAZARDS 3 Credit Hours**

(Slashed with GEOG 49078 and GEOG 79078) The study and management of natural hazards are inherently reliant on both physical and human processes and spatial patterns. Given the many variables involved and the variety of scales at which they operate, use of geographic information system (GIS) has become standard practice in research on hazards and in their management by government agencies at all levels. Students are exposed to a wide array of spatial data that is used in these activities, as well as standard mapping and spatial analysis procedures and forms of data dissemination.

**Prerequisite:** GEOG 49070 or GEOG 59070 or GEOG 59071; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**GEOG 59080 ADVANCED GEOGRAPHIC INFORMATION SCIENCE 3 Credit Hours**

(Slashed with GEOG 49080 and GEOG 79080) Provides both an overview of geographic information science (GIS) data structures, analytical functions and usage and modeling approaches. Students learn how to manage GIS data in different formats or projections; select GIS analytical tools for solving different problems; and model changes of geographical phenomena as represented by GIS data.

**Prerequisite:** GEOG 59070; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**GEOG 59081 FUNDAMENTALS OF GEOGRAPHIC INFORMATION SCIENCE II 3 Credit Hours**

Advanced theories and techniques for handling and analyzing geographic data, analytical functions and modelling approaches. Topics covered include: two- and three-dimension processing of geographic information, detection of geographic patterns through spatial analysis and spatial statistics, network analysis, modeling of geographic processes and an overview of GIS programming tools.

**Prerequisite:** GEOG 59071; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**GEOG 59085 WEB AND MOBILE GEOGRAPHIC INFORMATION SCIENCE 3 Credit Hours**

(Slashed with GEOG 49085 and GEOG 79085) Explores how web and mobile phones present opportunities and challenges to the field of geographic information science (GIS). This includes the examination of the use, design and development of cyberinfrastructure-enabled GIS emphasizing web- and mobile-based interfaces and technologies. Students are recommended to have GIS experience to enroll in the course.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**GEOG 59162 CARTOGRAPHY 3 Credit Hours**

(Slashed with GEOG 49162 and GEOG 79162) Introduces map design principles including base maps, typography, generalization, symbols, color scheme, and classification. Builds on students' experiences with GIS to focus on applying map design principles using geospatial and graphic design software to produce effective print and static web maps.

**Prerequisite:** GEOG 49070 or GEOG 59070; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**GEOG 59195 SPECIAL TOPICS IN GEOGRAPHIC INFORMATION SCIENCE 1-3 Credit Hours**

(Repeatable for maximum 10 times)(Slashed with GEOG 49195 and GEOG 79195).Topics vary per course offering.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 1-3 lecture

**Grade Mode:** Standard Letter

**GEOG 59230 REMOTE SENSING 3 Credit Hours**

(Cross-listed with GEOL 52030, GEOL 42030, GEOL 72030) (Slashed with GEOG 49230, GEOG 79230) Computer analysis of multispectral satellite datasets. Applications in terrestrial Earth science are emphasized.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**GEOG 60191 SEMINAR IN TOPICAL GEOGRAPHY 3 Credit Hours**

(Repeatable for credit)(Slashed with GEOG 70191) Seminar in one of the major topical fields in geography. Topics vary per course offering.

**Prerequisite:** Graduate standing.

**Schedule Type:** Seminar

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**GEOG 60199 THESIS I 2-6 Credit Hours**

Thesis students must register for a total of 6 hours, 2 to 6 hours in single semester distributed over several semesters if desired.

**Prerequisite:** Graduate standing.

**Schedule Type:** Masters Thesis

**Contact Hours:** 2-6 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**GEOG 60299 THESIS II 2 Credit Hours**

Thesis students must continue registration each semester until all degree requirements are met.

**Prerequisite:** GEOG 60199; and graduate standing.

**Schedule Type:** Masters Thesis

**Contact Hours:** 2 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**GEOG 60800 SEMINAR IN THE DEVELOPMENT OF GEOGRAPHIC THOUGHT 3 Credit Hours**

(Slashed with GEOG 70800) Development of geographic knowledge and concepts with emphasis on recent development. Critical analysis of writings of representative geographers and scientists in related fields.

**Prerequisite:** Graduate standing.

**Schedule Type:** Seminar

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**GEOG 60900 QUALITATIVE RESEARCH METHODS IN GEOGRAPHY 3 Credit Hours**

(Slashed with GEOG 70900) Introduces qualitative methods and research applications, along with methodological considerations of these approaches. Students consider the epistemology of qualitative research and learn the mechanics of conducting this research in the field. In class, these methods are put into practice and the results are put into writing.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**GEOG 60996 RESEARCH IN GEOGRAPHY 1-3 Credit Hours**

(Repeatable for credit) Students undertake individual research problems in geography.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Research

**Contact Hours:** 1-3 other

**Grade Mode:** Standard Letter-IP

**GEOG 60998 RESEARCH I 1-15 Credit Hours**

(Repeatable for credit) Research or individual investigation for master's level graduate students. Credits earned may be applied toward meeting degree requirements if the department approves.

**Prerequisite:** Graduate standing.

**Schedule Type:** Research

**Contact Hours:** 1-15 other

**Grade Mode:** Standard Letter

**GEOG 61998 RESEARCH II 1-15 Credit Hours**

(Repeatable for credit) Research or individual investigation for master's level graduate students. Credits earned may be applied toward meeting degree requirements if the department approves.

**Prerequisite:** Graduate standing.

**Schedule Type:** Research

**Contact Hours:** 1-15 other

**Grade Mode:** Satisfactory/Unsatisfactory

**GEOG 62062 BEHAVIORAL GEOGRAPHY 3 Credit Hours**

(Slashed with GEOG 72062) Course focuses on spatial perception, cognition and behavior. Students discuss the collection and processing of spatial information, behavior in space, location of space and interaction in space.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**GEOG 67091 SEMINAR IN REGIONAL GEOGRAPHY 3 Credit Hours**

(Repeatable for credit)(Slashed with GEOG 77091) Variable content seminar on one of the major regions of world.

**Prerequisite:** Graduate standing.

**Schedule Type:** Seminar

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**GEOG 69004 QUANTITATIVE METHODS IN GEOGRAPHY 3 Credit Hours**

(Slashed with GEOG 79004) Explores the methods and applications of some of the most common statistics found in geographic work. It explores probability theory, spatial statistics, estimation procedures, hypothesis testing, spatial sampling, methods of areal association, correlation and regression analysis, and principal components analysis.

Theory and execution of these methods are equally emphasized, and applications to geographic problems are examined within each theme.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**GEOG 69007 SPATIOTEMPORAL ANALYTICS 3 Credit Hours**

Course equips students with essential spatiotemporal thinking and technical skills in mapping, analyzing, visualizing, communicating and simulating the spatiotemporal data. The software ArcGIS and free packages in R and Netlogo are used in the instruction.

**Prerequisite:** GEOG 49070 or GEOG 59070 or GEOG 59071; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**GEOG 69073 GEOGRAPHIC INFORMATION SCIENCE: GLOBAL HEALTH 3 Credit Hours**

Emerging and re-emerging diseases in non-developed countries pose one of the greatest health challenges of current times. Geospatial approaches often provide one of the only information sources in data poor and challenging environments. The course exposes students to these health issues and disease environments through varied case studies, while simultaneously highlighting the geospatial methods and approaches used to understand and combat disease.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**GEOG 69074 GEOGRAPHIC INFORMATION SCIENCE: SPATIAL ANALYSIS FOR HEALTH GEOGRAPHY 3 Credit Hours**

Spatial analysis is used to verify patterns and associations in health data maps. These results can then be used to further hone the scientific question, or help design an intervention strategy. Course introduces students to spatial analytical approaches used by health researchers and practitioners in the exploratory investigation of health data. Students are exposed to new mobile technologies that can be used to enrich more traditional spatial data sources.

**Prerequisite:** GEOG 49070 or GEOG 59070 or GEOG 59071; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**GEOG 69079 ENVIRONMENTAL GEOGRAPHIC INFORMATION SCIENCE 3 Credit Hours**

GPS and environmental spatial data are commonly used in a variety of management and assessment plans in fields related to environmental science to achieve effective decision making and environmental resource management. Course focuses on techniques used to process, manage, visualize and analyze environmental data using GIS. Students learn how to collect and process GPS and online sources of geospatial data and how to employ techniques such as suitability modeling, measuring distributions and calculating landscape metrics.

**Prerequisite:** GEOG 49070 or GEOG 59070 or GEOG 59071; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**GEOG 69082 CYBERGIS 3 Credit Hours**

(Slashed with GEOG 79082) Explores cyberinfrastructure-enabled geographic information systems (i.e. cyberGIS) and related technologies including a broad introduction to the use, design, and development of cyberinfrastructure, spatial data infrastructures, geographic information services, and web-enabled mapping technologies. Situates CyberGIS in the broader context of geographic information science focusing on the how synthesizing computational thinking and spatial thinking influence methodological approaches.

**Prerequisite:** GEOG 49070 or GEOG 59070 or GEOG 59071; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**GEOG 69083 GEODATABASES 3 Credit Hours**

Course explores the essential concepts and skills needed to efficiently create a geodatabase, add data to it and realistically model the real-world spatial relationships inherent to the data. Students learn about geodatabase features that help ensure data integrity over time and about storing and managing geographic data.

**Prerequisite:** GEOG 49070 or GEOG 59070 or GEOG 59071; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**GEOG 69164 CARTOGRAPHIC DESIGN 3 Credit Hours**

Introduces students to the principles of map design and the art of map construction. Students will become familiar with the cartographic process, especially as they apply basic mapping concepts such as scale, projections, typography, generalization, symbols, color scheme, and classification to the design and production of thematic maps. Students will also learn how to describe and manipulate spatial data and how to select an appropriate map type for a given task and data set. This course builds on students' experiences with GIS to focus on the design needed to disseminate information beyond users of the software and produce effective print and web maps. Class exercises will provide hands-on experience in using GIS and graphic software packages. Principles and experiences learned in class will equip students with the fundamental skills necessary to effectively communicate graphic information through maps.

**Prerequisite:** GEOG 49070 or GEOG 59070 or GEOG 59071; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**GEOG 69231 ENVIRONMENTAL REMOTE SENSING 3 Credit Hours**

Introduction to the basic principles of environmental remote sensing, including the electromagnetic spectrum, spectral properties of Earth objects, aerial photograph analysis and interpretation and satellite image analysis and interpretation. Special focus will be on environmental applications, especially as they pertain to understanding vegetation, water, and land use mapping and impacts.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**GEOG 69392 PRACTICUM IN GEOGRAPHIC INFORMATION SCIENCE 6 Credit Hours**

Culminating experience for students in the MGISc program. It will be taken in place of two Carousel/Specialist courses on the schedule for the student's final semester. It is designed to provide practical experience in the application of MGISc course content in real-world professional settings. Students will select a professional project in consultation with their employer and program faculty and then will design, implement, and report on their activities in a culminating professional paper.

**Prerequisite:** GEOG 59070 or GEOG 59071 and GEOG 59080 or GEOG 59081 and GEOG 69164; and two additional graduate-level GEOG courses; and graduate standing; and special approval.

**Schedule Type:** Practical Experience

**Contact Hours:** 18 other

**Grade Mode:** Standard Letter-IP

**GEOG 69701 RESEARCH AND PRESENTATION OF GEOGRAPHIC DATA 3 Credit Hours**

Critical discussion of techniques of geographic research and preparation and presentation of research papers.

**Prerequisite:** Graduate standing.

**Schedule Type:** Seminar

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter



**GEOG 70093 VARIABLE TITLE WORKSHOP IN GEOGRAPHY 1-5 Credit Hours**

(Repeatable for credit) Variable title workshop in geography.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Workshop

**Contact Hours:** 1-5 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**GEOG 70191 SEMINAR IN TOPICAL GEOGRAPHY 3 Credit Hours**

(Repeatable for credit)(Slashed with GEOG 60191) Seminar in one of the major topical fields in geography. Topics vary per course offering.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Seminar

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**GEOG 70195 SPECIAL TOPICS IN GEOGRAPHY 1-3 Credit Hours**

(Repeatable for credit)(Slashed with GEOG 40195 and GEOG 50195)

Topics vary according to research interest of the instructor.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 1-3 lecture

**Grade Mode:** Standard Letter

**GEOG 70292 FIELD EXPERIENCE IN GEOGRAPHY 1-6 Credit Hours**

(Repeatable for credit)(Slashed with GEOG 40292 and GEOG 50292)

Examination of geographic landscapes in the field.

**Prerequisite:** Doctoral standing; and special approval.

**Schedule Type:** Field Experience

**Contact Hours:** 1-6 other

**Grade Mode:** Satisfactory/Unsatisfactory

**GEOG 70392 PRACTICUM IN EMERGING GEOGRAPHIC TRENDS 1-6 Credit Hours**

(Repeatable for credit) Students undertake a practicum in examining newly emerging geographic topics and techniques.

**Prerequisite:** Doctoral standing; and special approval.

**Schedule Type:** Practical Experience

**Contact Hours:** 1-6 other

**Grade Mode:** Satisfactory/Unsatisfactory

**GEOG 70492 STUDY AWAY IN GEOGRAPHY 1-3 Credit Hours**

(Repeatable for maximum 6 attempts)(Slashed with GEOG 40492 and GEOG 50492) Examination of geographic landscapes in the field.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Field Experience

**Contact Hours:** 3-9 other

**Grade Mode:** Standard Letter

**GEOG 70800 SEMINAR IN THE DEVELOPMENT OF GEOGRAPHIC THOUGHT 3 Credit Hours**

(Slashed with GEOG 60800) Development of geographic knowledge and concepts with emphasis on recent development. Critical analysis of writings of representative geographers and scientists in related fields.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Seminar

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**GEOG 70900 QUALITATIVE RESEARCH METHODS IN GEOGRAPHY 3 Credit Hours**

(Slashed with GEOG 60900) Introduces qualitative methods and research applications, along with methodological considerations of these approaches. Students consider the epistemology of qualitative research and learn the mechanics of conducting this research in the field. In class, these methods are put into practice and the results are put into writing.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**GEOG 71051 NATURAL DISASTERS AND SOCIETY 3 Credit Hours**

(Slashed with GEOG 41051 and GEOG 51051) Study of natural disasters; the physical causes of the hazards associated with the disasters; their effects on humans and societies; spatial and temporal distributions; and strategies to reduce the occurrences of disasters. Natural disasters include hurricanes, tornadoes, floods, landslides, heat waves, wildfire, blizzards, earthquakes, tsunami and volcanoes. Mitigation for disasters and responses to disasters are studied across economically developing nations and developed nations. Students learn through the analysis of numerous case studies of natural disasters.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**GEOG 71052 GLACIERS AND GLACIATION 3 Credit Hours**

(Cross-listed with GEOL 74052, GEOL 44052, GEOL 54052) (Slashed with GEOG 41052, GEOG 51052) Examination of how glacial ice masses change the shape of the earth's surface, how they are integral to climate and sea level change, and how they pose high risk hazards.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**GEOG 71065 APPLIED CLIMATOLOGY 3 Credit Hours**

(Slashed with GEOG 41065 and GEOG 51065) Course aims to provide a full appreciation for the range of applicability of climate data to real-world problems. There are three overarching goals of the course: (1) To provide a broad overview of what weather and climate information is out there and how people synthesize weather and climate information for use in applied work; (2) to enable a thorough appreciation for the breadth of disciplines in which applied climatology plays a role; and (3) to provide real-world experience of working through an applied climatological problem, via a final project.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**GEOG 71066 GLOBAL CLIMATE CHANGE 3 Credit Hours**

(Slashed with GEOG 41066 and GEOG 51066) Examination of the evidence and causes of climate change and how these data are assessed. Students discuss past, present and future impacts of climate change and variability, in addition to policy implications.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**GEOG 71073 CONSERVATION OF OUR NATURAL RESOURCES 3 Credit Hours**

(Slashed with GEOG 41073 and GEOG 51073) Evaluation of past and current problems associated with the management of natural resources and the environments associated with their utilization.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**GEOG 71074 RESOURCE GEOGRAPHY 3 Credit Hours**

(Slashed with GEOG 41074 and GEOG 51074) Culture-technology and distance in relation to resource adequacy and management concepts for societal decisions about common property and situations with external economies.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**GEOG 71077 WATER AND SOCIETY 3 Credit Hours**

(Slashed with GEOG 41077 and GEOG 51077) This course examines the relationships between water and the world's population with an emphasis on the developing world (Africa, Asia, Middle East, and Latin America). Students will analyze how water impacts humans and how humans impact water. The course begins by introducing the hydro-social cycle and network theories to provide a foundation and framework to understand the four primary course themes: water policy and governance (including privatization, public-private partnerships, and the various United Nations' global water initiatives), water as power (including social power and how governments politicize water), flooding and droughts (including vulnerabilities, adaptations, and mitigations), and inequalities (including on gender, quality, access, and affordability). The course concludes by revisiting these themes and applying ideas of water justice and sustainability. The course is primarily discussion-based with limited lectures to ensure students understand key concepts.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Seminar

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**GEOG 71082 GEOGRAPHY OF SOILS 3 Credit Hours**

(Slashed with GEOG 41082 and GEOG 51082) An edaphological approach to soils, including morphology, formation, classification, geographical distribution and utilization. Students will be required to undertake field work.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**GEOG 71195 SPECIAL TOPICS IN ENVIRONMENTAL GEOGRAPHY 1-3 Credit Hours**

(Repeatable for a maximum 10 times)(Slashed with GEOG 41195 and GEOG 51195) Topics vary per course offering.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 1-3 lecture

**Grade Mode:** Standard Letter

**GEOG 71800 GLOBAL ENVIRONMENTAL ISSUES 3 Credit Hours**

(Slashed with GEOG 41800 and GEOG 51800) Course examines environmental belief systems and explores various perceptions of the Earth's environment and its opportunities, constraints and risks. The goals of the course is twofold: (1) develop a framework to allow students to explore both their own relationship to the environment and to understand the sociocultural constructs that have informed their personal environmental beliefs; and (2) apply this knowledge to critically assess various stakeholder perspectives of specific environmental issues.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Seminar

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**GEOG 72052 MEDICAL GEOGRAPHY 3 Credit Hours**

(Slashed with GEOG 42052 and GEOG 52052) Course explores the interconnection between geography and health. From a spatial perspective, student consider past and present epidemics, global health risks and their variation, the link between disasters and disease and the factors leading to health disparities.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**GEOG 72053 GEOGRAPHIES OF MEMORY AND HERITAGE 3 Credit Hours**

(Slashed with GEOG 42053 and GEOG 52053) Course gives students a working knowledge in, and ability to understand and analyze, the intersection of memory and landscape as a tangible re-presentation of the human past, oftentimes used as a tangible expression of cultural or political power. Students focus on memorialization, preservation and tourism concepts and themes.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**GEOG 72062 BEHAVIORAL GEOGRAPHY 3 Credit Hours**

(Slashed with GEOG 62062) Course focuses on spatial perception, cognition and behavior. Students discuss the collection and processing of spatial information, behavior in space, location of space and interaction in space.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**GEOG 72064 SETTLING THE NORTH AMERICAN ENVIRONMENT 3 Credit Hours**

(Slashed with GEOG 42064 and GEOG 52064) Course surveys the environmental changes of the North American continent brought about by Indigenous, European Colonial and American land use practices, from pre-Columbian times to present. Students engage with foundational historical narratives, evidence and methods for understanding these geographic pasts. Course is a combination of lectures and discussions of readings and in-class activities.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**GEOG 72070 SEMINAR IN ETHNIC, LIFESTYLE AND NATIONAL COMMUNITIES 3 Credit Hours**

(Slashed with GEOG 42070 and GEOG 52070) Covers the geographies of ethnic identity and nationalism, national identity and territory, borderlands and diasporas, national separatism and the variety of ways in which cultural difference asserts itself.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Seminar

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**GEOG 72195 SPECIAL TOPICS IN SOCIAL GEOGRAPHY 1-3 Credit Hours**

(Repeatable for maximum of 10 times)(Slashed with GEOG 42195 and GEOG 52195) Topics vary per course offering.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 1-3 lecture

**Grade Mode:** Standard Letter

**GEOG 74010 GEOGRAPHY OF THE GLOBAL ECONOMY 3 Credit Hours**

(Slashed with GEOG 44010 and GEOG 54010) Geographic analysis of the increasing inter-connectedness of economic activity. Students discuss the social, technological and political changes associated with globalization.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**GEOG 74070 SPATIAL ANALYSIS AND LOCATION THEORY 3 Credit Hours**

(Slashed with GEOG 44070 and GEOG 54070) Classical theories for location of economic activities and contemporary approach of spatial analysis, spatial organization of economic systems, behavioral models in economic geography and spatial allocation problems.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**GEOG 75085 URBAN TRANSPORTATION 3 Credit Hours**

(Slashed with GEOG 45085 and GEOG 55085) Transportation may be the single most important force shaping cities. Historically, cities have depended on their access to ports, canals, railroads and highways. Today, transportation networks, the use of public transportation, provisions for bicycles and pedestrians and transportation architecture continue to define how a city looks, feels and acts.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**GEOG 76070 URBAN AND REGIONAL PLANNING 3 Credit Hours**

(Slashed with GEOG 46070 and GEOG 56070) Examines how cities develop and what "people" – through government, quasi-public institutions and private interests – can do to modify urban growth, the distribution of people and places and urban design.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**GEOG 76080 URBAN SUSTAINABILITY 3 Credit Hours**

(Slashed with GEOG 46080 and GEOG 56080) Provides an introduction to interdisciplinary perspectives on urban sustainability, focusing on environmental challenges caused by urbanization and the innovative ways urban dwellers seek to address those challenges. Course provides background on relevant disciplinary perspectives and their application to environmental challenge domains.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture, Seminar

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**GEOG 76081 SEMINAR IN URBAN GEOGRAPHY 3 Credit Hours**

(Slashed with GEOG 46081 and GEOG 56081) Through class discussions and readings, students gain a better understanding of the various issues, projects and paradigms that make up the field of urban geography.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Seminar

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**GEOG 77091 SEMINAR IN REGIONAL GEOGRAPHY 3 Credit Hours**

(Repeatable for credit)(Slashed with GEOG 67091) Variable content seminar on one of the major regions of world.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Seminar

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**GEOG 79004 QUANTITATIVE METHODS IN GEOGRAPHY 3 Credit Hours**

(Slashed with GEOG 69004) Explores the methods and applications of some of the most common statistics found in geographic work. It explores probability theory, spatial statistics, estimation procedures, hypothesis testing, spatial sampling, methods of areal association, correlation and regression analysis, and principal components analysis.

Theory and execution of these methods are equally emphasized, and applications to geographic problems are examined within each theme.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**GEOG 79070 GEOGRAPHIC INFORMATION SCIENCE 4 Credit Hours**

(Slashed with GEOG 49070 and GEOG 59070) Introduction to theories and methods for geographic data processing, including data capture and input, data storage and management and data analysis and displays. Emphasis is on laboratory exercises using GIS software packages for real-world applications.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 3 lecture, 2 lab

**Grade Mode:** Standard Letter

**GEOG 79072 GEOGRAPHIC INFORMATION SCIENCE AND HEALTH 3 Credit Hours**

(Slashed with GEOG 49072 and GEOG 59072) Geographic theory and methods serve as the connection among disparate disciplines focused on how and why "health" varies between regions, cities and neighborhoods. Students examine how geospatial technologies, especially GIS, have become an important health analysis tool.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**GEOG 79075 GEOGRAPHIC INFORMATION SCIENCE: APPLICATIONS FOR SOCIAL PROBLEMS 3 Credit Hours**

(Slashed with GEOG 49075 and GEOG 59075) Course provides a survey of geographic information system (GIS) and related mapping applications that are used to understand and solve a variety of social problems (e.g., crime, poor health and educational outcomes, exposure to environmental hazards). Through case studies, students learn spatial data acquisition, basic spatial analysis and forms of map-based visual communication to stakeholders and the general public.

**Prerequisite:** GEOG 79070; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**GEOG 79076 SPATIAL PROGRAMMING 3 Credit Hours**

(Slashed with GEOG 49076 and GEOG 59076) Examination of the design, development and use of geographic information technologies with computer programming to model process and visualize geographic phenomena.

**Prerequisite:** GEOG 79070; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**GEOG 79078 GEOGRAPHIC INFORMATION SCIENCE AND ENVIRONMENTAL HAZARDS 3 Credit Hours**

(Slashed with GEOG 49078 and GEOG 59078) The study and management of natural hazards are inherently reliant on both physical and human processes and spatial patterns. Given the many variables involved and the variety of scales at which they operate, use of geographic information system (GIS) has become standard practice in research on hazards and in their management by government agencies at all levels. Students are exposed to a wide array of spatial data that is used in these activities, as well as standard mapping and spatial analysis procedures and forms of data dissemination.

**Prerequisite:** GEOG 79070; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**GEOG 79080 ADVANCED GEOGRAPHIC INFORMATION SCIENCE 3 Credit Hours**

(Slashed with GEOG 49080 and GEOG 59080) Provides both an overview of geographic information science (GIS) data structures, analytical functions and usage and modeling approaches. Students learn how to manage GIS data in different formats or projections; select GIS analytical tools for solving different problems; and model changes of geographical phenomena as represented by GIS data.

**Prerequisite:** GEOG 79070; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**GEOG 79082 CYBERGIS 3 Credit Hours**

(Slashed with GEOG 69082) Explores cyberinfrastructure-enabled geographic information systems (i.e. cyberGIS) and related technologies including a broad introduction to the use, design, and development of cyberinfrastructure, spatial data infrastructures, geographic information services, and web-enabled mapping technologies. Situates cyberGIS in the broader context of geographic information science focusing on the how synthesizing computational thinking and spatial thinking influence methodological approaches.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**GEOG 79085 WEB AND MOBILE GEOGRAPHIC INFORMATION SCIENCE 3 Credit Hours**

(Slashed with GEOG 49085 and GEOG 59085) Explores how web and mobile phones present opportunities and challenges to the field of geographic information science (GIS). This includes the examination of the use, design and development of cyberinfrastructure-enabled GIS emphasizing web- and mobile-based interfaces and technologies. Students are recommended to have GIS experience to enroll in the course.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**GEOG 79162 CARTOGRAPHY 3 Credit Hours**

(Slashed with GEOG 49162 and GEOG 59162) Study of the design and production of dynamic, interactive, multimedia web-based mapping. Data acquisition and processing, symbolization, composition, text and color utilization.

**Prerequisite:** GEOG 49070 or GEOG 59070 or GEOG 79070; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**GEOG 79195 SPECIAL TOPICS IN GEOGRAPHIC INFORMATION SCIENCE 1-3 Credit Hours**

(Repeatable for maximum 10 times)(Slashed with GEOG 49195 and GEOG 59195). Topics vary per course offering.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 1-3 lecture

**Grade Mode:** Standard Letter

**GEOG 79230 REMOTE SENSING 3 Credit Hours**

(Cross-listed with GEOL 72030, GEOL 42030, GEOL 52030)(Slashed with GEOG 49230, GEOG 59230) Computer analysis of multispectral satellite datasets. Applications in terrestrial Earth science are emphasized.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter



**GEOG 80199 DISSERTATION I 15 Credit Hours**

(Repeatable for credit) Doctoral dissertation, for which registration in at least two semesters is required first of which will be semester in which dissertation work is begun and continuing until the completion of 30 hours.

**Prerequisite:** Doctoral standing; and special approval.

**Schedule Type:** Dissertation

**Contact Hours:** 15 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**GEOG 80299 DISSERTATION II 15 Credit Hours**

(Repeatable for credit) Continuing registration required of doctoral students who have completed the initial 30 hours of dissertation and continuing until all degree requirements are met.

**Prerequisite:** GEOG 80199; and doctoral standing.

**Schedule Type:** Dissertation

**Contact Hours:** 15 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**GEOG 80998 RESEARCH I 1-15 Credit Hours**

(Repeatable for credit) Research or individual investigation for doctoral students who have not yet passed their candidacy examination. Credits earned may be applied toward degree if department approves.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Research

**Contact Hours:** 1-15 other

**Grade Mode:** Standard Letter

**GEOG 81091 RESEARCH IN PHYSICAL RESOURCES 2,3 Credit Hours**

(Repeatable for credit) Research on basic processes related to formation of physical environment. Investigation of significant variables in resource utilization relevant to regional planning and development.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Research

**Contact Hours:** 2-3 other

**Grade Mode:** Standard Letter-IP

**GEOG 81998 RESEARCH II 1-15 Credit Hours**

(Repeatable for credit) Research or individual investigation for doctoral students who have not yet passed their candidacy examination. Credits earned may be applied toward degree if department approves.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Research

**Contact Hours:** 1-15 other

**Grade Mode:** Satisfactory/Unsatisfactory

**GEOG 89092 GRADUATE FIELD CAMP 5 Credit Hours**

(Repeatable for credit) Field research problems involving individual investigation of specific urban or rural region.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Field Experience

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**GEOG 89098 RESEARCH IN CARTOGRAPHY 1-3 Credit Hours**

(Repeatable for credit) Investigations into function of map as medium of scientific expression; problem of map design in relation to human perception of graphically expressed spatial information.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Research

**Contact Hours:** 1-3 other

**Grade Mode:** Standard Letter

Department of Geography

413 McGilvrey Hall

Kent Campus

330-672-2045

geography@kent.edu

www.kent.edu/geography

## Description

The minor in Climate Change aims to provide an overview of the atmospheric sciences and how the climate system works and how humans and the environment interact within it. Students learn about climate change and how to understand and forecast its potential impacts. Students also learn how to apply their knowledge of climate and weather to a variety of interdisciplinary fields, including conservation, health, oceanography, and environmental planning.

### Fully Offered at:

- Kent Campus

## Admission Requirements

Admission to a minor is open to students declared in a bachelor's degree, the A.A.B. or A.A.S. degree or the A.T.S. degree (not Individualized Program major). Students declared only in the A.A. or A.S. degree or the A.T.S. degree in Individualized Program may not declare a minor. Students may not pursue a minor and a major in the same discipline.

## Minor Requirements

Code	Title	Credit Hours
<b>Minor Requirement</b>		
GEOG 31062	FUNDAMENTALS OF METEOROLOGY	3
GEOG 31064	PRINCIPLES OF CLIMATOLOGY	3
GEOG 41066	GLOBAL CLIMATE CHANGE	3
Choose from the following		3-4
GEOG 39002	STATISTICAL METHODS IN GEOGRAPHY	
GEOG 49070	GEOGRAPHIC INFORMATION SCIENCE	
GEOG 49230	REMOTE SENSING	
GEOL 42030	REMOTE SENSING	
MATH 30011	BASIC PROBABILITY AND STATISTICS	
Minor Electives, choose from the following: <sup>1</sup>		6
GEOG 41051	NATURAL DISASTERS AND SOCIETY	
GEOG 41065	APPLIED CLIMATOLOGY	
GEOG 41073	CONSERVATION OF NATURAL RESOURCES	
GEOG 46080	URBAN SUSTAINABILITY	
GEOL 44074	PALEOCEANOGRAPHY	

Minimum Total Credit Hours:

18-19

<sup>1</sup> Appropriate special topic courses maybe taken with the approval of the program director.

## Graduation Requirements

Minimum Minor GPA	Minimum Overall GPA
2.000	2.000

- Students must complete at least two upper-division (30000 or 40000 level) courses in the minor at Kent State on a graded basis (A-F).

# Climate Change - Minor

College of Arts and Sciences



- Minimum 6 credit hours in the minor must be upper-division coursework (30000 and 40000 level).
- Minimum 6 credit hours in the minor must be outside of the course requirements for any major or other minor the student is pursuing.
- Minimum 50 percent of the total credit hours for the minor must be taken at Kent State (in residence).

## Environmental Geographic Information Science - Graduate Certificate

**College of Arts and Sciences**  
 Department of Geography  
 413 McGilvrey Hall  
 Kent Campus  
 330-672-2045  
 geography@kent.edu  
 www.kent.edu/geography

### Description

The Environmental Geographic Information Science graduate certificate prepares graduates to work in the geospatial technology industry, as well as allied industries that rely on employees who are highly trained in this technology. Prospective employers are private and public sector entities that need to map and analyze environmental conditions and resources. Examples of such employers are local, state and federal government agencies; businesses that focus on logistics, marketing and engineering; and non-profit agencies in health services and environmental management.

### Fully Offered At:

- Online

### Admission Requirements

- Official transcript(s)
- Undergraduate degree in geography or a related field<sup>1</sup>
- Minimum 3.000 undergraduate GPA
- Goal statement
- Two letters of recommendation

For more information about graduate admissions, please visit the Graduate Studies website.

<sup>1</sup> This requirement may be waived with evidence of professional experience using geospatial technologies or alternative evidence of ability to excel in a geographic information science graduate degree program.

### Program Requirements

#### Certificate Requirements

Code	Title	Credit Hours
<b>Certificate Requirements</b>		
Certificate Electives, choose from the following:		15

GEOG 59072	GEOGRAPHIC INFORMATION SCIENCE AND HEALTH	
GEOG 59078	GEOGRAPHIC INFORMATION SCIENCE AND ENVIRONMENTAL HAZARDS	
GEOG 69004	QUANTITATIVE METHODS IN GEOGRAPHY	
GEOG 69079	ENVIRONMENTAL GEOGRAPHIC INFORMATION SCIENCE	
GEOG 69083	GEODATABASES	
GEOG 69164	CARTOGRAPHIC DESIGN	
GEOG 69231	ENVIRONMENTAL REMOTE SENSING	
Minimum Total Credit Hours:		15

### Graduation Requirements

Minimum Certificate GPA	Minimum Overall GPA
3.000	

## Environmental Studies - B.A.

**College of Arts and Sciences**  
 Department of Geography  
 413 McGilvrey Hall  
 Kent Campus  
 330-672-2045  
 geography@kent.edu  
 www.kent.edu/geography

### Description

The Bachelor of Arts degree in Environmental Studies prepares students to integrate concepts and knowledge on environmental issues from across multiple disciplines and to communicate about these in important ways. Basic scientific knowledge about environmental processes is used to inform different social goals. Students develop a set of key competencies in earth systems science, environmental social science, human-natural systems and sustainability science to be able to solve specific environmental problems.

Environmental Studies students may apply early to the M.S. degree in Geography and double count 9 credit hours of graduate courses toward both degree programs. See the Combined Bachelor's/Master's Degree Program policy in the University Catalog for more information.

### Fully Offered At:

- Kent Campus
- Stark Campus

### Admission Requirements

The university affirmatively strives to provide educational opportunities and access to students with varied backgrounds, those with special talents and adult students who graduated from high school three or more years ago.

**Freshman Students on the Kent Campus:** The freshman admission policy on the Kent Campus is selective. Admission decisions are based upon the following: cumulative grade point average, ACT and/or SAT scores, strength of high school college preparatory curriculum and grade trends. The Admissions Office at the Kent Campus may defer the admission of students who do not meet admissions criteria but who demonstrate areas of promise for successful college study. Deferred

applicants may begin their college coursework at one of seven regional campuses of Kent State University. For more information on admissions, including additional requirements for some academic programs, visit the admissions website for new freshmen.

**Freshman Students on the Regional Campuses:** Kent State campuses at Ashtabula, East Liverpool, Geauga, Salem, Stark, Trumbull and Tuscarawas, as well as the Regional Academic Center in Twinsburg, have open enrollment admission for students who hold a high school diploma, GED or equivalent.

**English Language Proficiency Requirements for International Students:** All international students must provide proof of English language proficiency (unless they meet specific exceptions) by earning a minimum 525 TOEFL score (71 on the Internet-based version), minimum 75 MELAB score, minimum 6.0 IELTS score or minimum 48 PTE score, or by completing the ESL level 112 Intensive Program. For more information on international admission, visit the Office of Global Education's admission website.

**Transfer, Transitioning and Former Students:** For more information about admission criteria for transfer, transitioning and former students, please visit the admissions website.

## Program Learning Outcomes

Graduates of this program will be able to:

1. Understand the environment and how it relates to human activity, human resource needs and human cognition.
2. Grasp the interconnections between environmental and human systems and how those play out in particular problem areas.
3. Articulate how environmental problems are framed and how public attitudes and policies can be harnessed to provide solutions to environmental degradation.

## University Requirements

All students in a bachelor's degree program at Kent State University must complete the following university requirements for graduation.

**NOTE:** University requirements may be fulfilled in this program by specific course requirements. Please see Program Requirements for details.

Destination Kent State: First Year Experience	1
Course is not required for students with 25 transfer credits, excluding College Credit Plus, or age 21+ at time of admission.	
Diversity Domestic/Global (DIVD/DIVG)	2 courses
Students must successfully complete one domestic and one global course, of which one must be from the Kent Core.	
Experiential Learning Requirement (ELR)	varies
Students must successfully complete one course or approved experience.	
Kent Core (see table below)	36-37
Writing-Intensive Course (WIC)	1 course
Students must earn a minimum C grade in the course.	
Upper-Division Requirement	39 (or 42)
Students must successfully complete 39 upper-division (numbered 30000 to 49999) credit hours to graduate. Students in a B.A. and/or B.S. degree in the College of Arts and Sciences must complete 42 upper-division credit hours.	
Total Credit Hour Requirement	120

Some bachelor's degrees require students to complete more than 120 credit hours.

## Kent Core Requirements

Kent Core Composition (KCMP)	6
Kent Core Mathematics and Critical Reasoning (KMCR)	3
Kent Core Humanities and Fine Arts (KHUM/KFA) (min one course each)	9
Kent Core Social Sciences (KSS) (must be from two disciplines)	6
Kent Core Basic Sciences (KBS/KLAB) (must include one laboratory)	6-7
Kent Core Additional (KADL)	6
<b>Total Credit Hours:</b>	<b>36-37</b>

## Program Requirements

### Major Requirements

Code	Title	Credit Hours
<b>Major Requirements (courses count in major GPA)</b>		
BSCI 10110	BIOLOGICAL DIVERSITY (KBS) (KLAB)	4
ENVS 22070	NATURE AND SOCIETY (KSS)	3
ENVS 32091	ENVIRONMENTAL STUDIES AND SUSTAINABILITY	2
ENVS 42099	INTEGRATIVE SENIOR PROJECT (ELR) (WIC) <sup>1</sup>	2
GEO 21062	ENVIRONMENTAL EARTH SCIENCE (KBS)	3
Biological Sciences Elective, choose from the following:		2-4
BSCI 30274	FORESTRY	
BSCI 30277	ECONOMIC BOTANY	
BSCI 30360	GENERAL ECOLOGY	
BSCI 40525	WILDLIFE RESOURCES (ELR)	
Geography Elective, choose from the following:		3
GEO 21062	PHYSICAL GEOGRAPHY (KBS)	
GEO 41051	NATURAL DISASTERS AND SOCIETY	
GEO 41066	GLOBAL CLIMATE CHANGE	
GEO 41073	CONSERVATION OF NATURAL RESOURCES	
GEO 41074	RESOURCE GEOGRAPHY	
Geology Elective, choose from the following:		3
GEO 42065	WATERSHED HYDROLOGY	
GEO 42067	INTRODUCTORY HYDROGEOLOGY	
Methods Elective, choose from the following:		3-4
GEO 49070	GEOGRAPHIC INFORMATION SCIENCE	
GEO 49230	REMOTE SENSING	
GEO 42035	SCIENTIFIC METHODS IN GEOLOGY	
POL 30310	PUBLIC POLICY ANALYSIS	
SOC 32210	RESEARCHING SOCIETY (ELR) (WIC) <sup>1</sup>	
Social Sciences Electives, choose from the following:		15
ECON 32084	ECONOMICS OF THE ENVIRONMENT	
GEO 31070	POPULATION AND THE ENVIRONMENT	
GEO 45085	URBAN TRANSPORTATION	
GEO 46070	URBAN AND REGIONAL PLANNING	
GEO 46080	URBAN SUSTAINABILITY	
PHIL 30025	ENVIRONMENTAL ETHICS (ELR)	
POL 30350	ENVIRONMENTAL CONFLICT RESOLUTION	
POL 40440	U.S. ENVIRONMENTAL POLITICS AND POLICIES	
POL 40540	POLITICS OF DEVELOPMENT (DIVG)	
SOC 42560	SOCIOLOGY OF FOOD	

Additional Requirements (courses do not count in major GPA)		
UC 10097	DESTINATION KENT STATE: FIRST YEAR EXPERIENCE	1
Foreign Language (see Foreign Language College Requirement below)		14-16
Kent Core Composition		6
Kent Core Mathematics and Critical Reasoning		3
Kent Core Humanities and Fine Arts (minimum one course from each)		9
Kent Core Social Sciences (must be from two disciplines)		6
Kent Core Additional		6
College General Requirement (must be from Kent Core Basic Sciences) <sup>2</sup>		3
College General Requirement (must be from Kent Core Social Sciences) <sup>3</sup>		3
General Electives (total credit hours depends on earning 120 credit hours, including 42 upper-division credit hours)		29
Minimum Total Credit Hours:		120

<sup>1</sup> A minimum C grade must be earned to fulfill the writing-intensive requirement.

<sup>2</sup> One additional course taken from the Kent Core Basic Sciences courses in the following Arts and Sciences disciplines: Anthropology (ANTH), Biology (BSCI), Chemistry (CHEM), Geography (GEOG), Geology (GEOL) or Physics (PHY). The course may not be from the student's major.

<sup>3</sup> One additional course taken from the Kent Core Social Sciences courses in the following Arts and Sciences disciplines: Anthropology (ANTH), Geography (GEOG), Criminology and Justice Studies (CRIM), Peace and Conflict Studies (PACS), Political Science (POL), Psychology (PSYC) or Sociology (SOC). The course may not be from the student's major.

## GRADUATION REQUIREMENTS

Minimum Major GPA	Minimum Overall GPA
2.000	2.000

### Foreign Language College Requirement

Students pursuing the Bachelor of Arts degree in the College of Arts and Sciences must complete 14-16 credit hours of foreign language.<sup>1</sup>

To complete the requirement, students have the equivalent of Elementary I and II in any language, plus one of the following options:

- Intermediate I and II of the same language<sup>2</sup>
- Elementary I and II of a second language
- Any combination of two courses from the following list:
  - Intermediate I of the same language
  - MCLS 10001 INTRODUCTION TO STRUCTURAL CONCEPTS FOR LANGUAGE STUDENTS
  - MCLS 20091 VARIABLE CONTENT SEMINAR IN GLOBAL LITERACY: CASE STUDIES
  - MCLS 21417 MULTICULTURALISM IN TODAY'S GERMANY (DIVG)
  - MCLS 28404 THE LATIN AMERICAN EXPERIENCE (DIVG)

<sup>1</sup> All students with prior foreign language experience should take the foreign language placement test to determine the appropriate level at which to start. Some students may begin beyond the Elementary I level and will complete the requirement with fewer credit hours and fewer courses. This may be accomplished by (1) passing a course beyond Elementary I through Intermediate II level; (2) receiving credit through Credit by Exam (CBE), Advanced Placement (AP), International Baccalaureate (IB) or College Level Examination Program (CLEP); or (3) being designated a 'native speaker' of a non-English language (consult with the College of Arts and Sciences Advising Office for additional information). When students complete the requirement with fewer than 14 credit hours and four courses, they will complete remaining credit hours with general electives.

<sup>2</sup> Certain majors, concentrations and minors may require specific languages, limit the languages from which a student may choose or require coursework through Intermediate II. Students who plan to pursue graduate study may need particular language coursework.

## Roadmap

Semester One		Credits
ENVS 22070	NATURE AND SOCIETY (KSS)	3
UC 10097	DESTINATION KENT STATE: FIRST YEAR EXPERIENCE	1
Kent Core Requirement		3
Kent Core Requirement		3
Kent Core Requirement		3
Credit Hours		13
Semester Two		Credits
BSCI 10110	BIOLOGICAL DIVERSITY (KBS) (KLAB)	4
GEOL 21062	ENVIRONMENTAL EARTH SCIENCE (KBS)	3
Kent Core Requirement		3
Kent Core Requirement		3
Kent Core Requirement		3
Credit Hours		16
Semester Three		Credits
Geography Elective		3
Social Sciences Elective		3
Foreign Language		4
College General Requirement		3
Kent Core Requirement		3
Credit Hours		16
Semester Four		Credits
Biological Sciences Elective		2-4
Methods Elective		3-4
Foreign Language		4
Kent Core Requirement		3
General Elective		4
Credit Hours		16
Semester Five		Credits
Geology Elective		3
Social Sciences Elective		3
Foreign Language		3
Kent Core Requirement		3
College General Requirement		3
Credit Hours		15

**Semester Six**

ENVS 32091	ENVIRONMENTAL STUDIES AND SUSTAINABILITY	2
Social Sciences Elective		3
Foreign Language		3
Kent Core Requirement		3
General Elective		3
Credit Hours		14

**Semester Seven**

Social Sciences Elective		3
General Electives		12
Credit Hours		15

**Semester Eight**

ENVS 42099	INTEGRATIVE SENIOR PROJECT (ELR) (WIC)	2
Social Sciences Elective		3
General Electives		10
Credit Hours		15
Minimum Total Credit Hours:		120

## Environmental Studies - Minor

**College of Arts and Sciences**

Department of Geography  
413 McGilvrey Hall  
Kent Campus  
330-672-2045  
geography@kent.edu  
www.kent.edu/geography

### Description

The Environmental Studies minor prepares students to integrate concepts and knowledge on environmental issues from across multiple disciplines and to communicate about these in important ways. Basic scientific knowledge about environmental processes is used to inform different social goals. Students will develop competencies in earth systems science, environmental social science, human-natural systems and sustainability science to be able to solve specific environmental problems.

**Fully Offered At:**

- Kent Campus
- Stark Campus

### Admission Requirements

Admission to a minor is open to students declared in a bachelor's degree, the A.A.B. or A.A.S. degree or the A.T.S. degree (not Individualized Program major). Students declared only in the A.A. or A.S. degree or the A.T.S. degree in Individualized Program may not declare a minor. Students may not pursue a minor and a major in the same discipline.

To declare the Environmental Studies minor, students must have a minimum 2.000 overall Kent State University GPA. No Kent State University GPA is required if the student is a first-semester freshman or transfer student admitted in good standing.

## Minor Requirements

Code	Title	Credit Hours
<b>Minor Requirements</b>		
ENVS 22070	NATURE AND SOCIETY (KSS)	3
GEOL 21062	ENVIRONMENTAL EARTH SCIENCE (KBS)	3-4
or BSCI 10110	BIOLOGICAL DIVERSITY (KBS) (KLAB)	
Natural Science Electives, choose from the following:		3-4
BSCI 30277	ECONOMIC BOTANY	
BSCI 30274	FORESTRY	
BSCI 30360	GENERAL ECOLOGY	
BSCI 40525	WILDLIFE RESOURCES (ELR)	
GEOG 41066	GLOBAL CLIMATE CHANGE	
GEOG 41073	CONSERVATION OF NATURAL RESOURCES	
GEOG 41074	RESOURCE GEOGRAPHY	
GEOG 41082	GEOGRAPHY OF SOILS	
GEOL 33025	WATER AND THE ENVIRONMENT	
GEOL 42065	WATERSHED HYDROLOGY	
GEOL 42066	PHYSICAL HYDROGEOLOGY	
Social Science Electives, choose from the following: <sup>1</sup>		9
ECON 32084	ECONOMICS OF THE ENVIRONMENT	
ENVS 30000	ENVIRONMENTAL PROTECTION REGULATIONS AND ASSESSMENT	
ENVS 46092	INTERNSHIP IN ENVIRONMENTAL STUDIES (ELR)	
GEOG 31070	POPULATION AND THE ENVIRONMENT	
GEOG 42064	SETTLING THE NORTH AMERICAN ENVIRONMENT	
GEOG 45085	URBAN TRANSPORTATION	
GEOG 46070	URBAN AND REGIONAL PLANNING	
GEOG 46080	URBAN SUSTAINABILITY	
PACS 35050	ENVIRONMENTAL CONFLICT RESOLUTION	
or POL 30350	ENVIRONMENTAL CONFLICT RESOLUTION	
PHIL 30025	ENVIRONMENTAL ETHICS (ELR)	
POL 40440	U.S. ENVIRONMENTAL POLITICS AND POLICIES	
POL 40540	POLITICS OF DEVELOPMENT (DIVG)	
SOC 42560	SOCIOLOGY OF FOOD	
Minimum Total Credit Hours:		18

<sup>1</sup> Only 2 courses can be in the same field.

### Graduation Requirements

Minimum Minor GPA	Minimum Overall GPA
2.000	2.000

- Students must complete at least two upper-division (30000 or 40000 level) courses in the minor at Kent State on a graded basis (A-f).
- Minimum 6 credit hours in the minor must be upper-division coursework (30000 and 40000 level).
- Minimum 6 credit hours in the minor must be outside of the course requirements for any major or other minor the student is pursuing.
- Minimum 50 percent of the total credit hours for the minor must be taken at Kent State (in residence).

# Geographic Information Science - Graduate Certificate

## College of Arts and Sciences

Department of Geography  
413 McGilvrey Hall  
Kent Campus  
330-672-2045  
geography@kent.edu  
www.kent.edu/geography

## Description

The Geographic Information Science graduate certificate prepares graduates to work in the geospatial technology industry, as well as in allied industries that rely on employees who are highly trained in this technology. Prospective employers are private and public sector entities that need to manage large systems and big geospatial data, map and analyze health data, and map and analyze environmental conditions and resources. Examples of such employers are local, state and federal government agencies; business that focus on logistics, marketing and engineering; and non-profit agencies in health services and environmental management.

## Fully Offered At:

- Online

## Admission Requirements

- Official transcript(s)
- Undergraduate degree in geography or a related field<sup>1</sup>
- Minimum 3.000 undergraduate GPA
- Goal statement
- Two letters of recommendation

For more information about graduate admissions, please visit the Graduate Studies website.

<sup>1</sup> Requirement that undergraduate degree be in geography or related field may be waived with evidence of professional experience using geospatial technologies or alternative evidence of ability to excel in a geographic information science graduate program.

## Program Requirements

### Certificate Requirements

Code	Title	Credit Hours
<b>Certificate Requirements</b>		
GEOG 59071	FUNDAMENTALS OF GEOGRAPHIC INFORMATION SCIENCE I	3
GEOG 59081	FUNDAMENTALS OF GEOGRAPHIC INFORMATION SCIENCE II	3
GEOG 69164	CARTOGRAPHIC DESIGN	3
Certificate Elective, choose from the following:		6
CS 61002	ALGORITHMS AND PROGRAMMING I	
DSCI 64210		
GEOG 69004	QUANTITATIVE METHODS IN GEOGRAPHY	

GEOG 59072	GEOGRAPHIC INFORMATION SCIENCE AND HEALTH
GEOG 59075	GEOGRAPHIC INFORMATION SCIENCE: APPLICATIONS FOR SOCIAL PROBLEMS
GEOG 59076	SPATIAL PROGRAMMING
GEOG 59078	GEOGRAPHIC INFORMATION SCIENCE AND ENVIRONMENTAL HAZARDS
GEOG 69004	QUANTITATIVE METHODS IN GEOGRAPHY
GEOG 69007	SPATIOTEMPORAL ANALYTICS
GEOG 69073	GEOGRAPHIC INFORMATION SCIENCE: GLOBAL HEALTH
GEOG 69074	GEOGRAPHIC INFORMATION SCIENCE: SPATIAL ANALYSIS FOR HEALTH GEOGRAPHY
GEOG 69079	ENVIRONMENTAL GEOGRAPHIC INFORMATION SCIENCE
GEOG 69082	CYBERGIS
GEOG 69083	GEODATABASES
GEOG 69231	ENVIRONMENTAL REMOTE SENSING

Minimum Total Credit Hours:

15

## Graduation Requirements

Minimum Certificate GPA	Minimum Overall GPA
3.000	

# Geographic Information Science - M.GISc

## College of Arts and Sciences

Department of Geography  
413 McGilvrey Hall  
Kent Campus  
330-672-2045  
geography@kent.edu  
www.kent.edu/geography

## Description

The Master of Geographic Information Science degree prepares graduates for analytical and managerial positions that utilize geospatial technologies.

## Fully Offered At:

- Online

## Admission Requirements

- Bachelor's degree from an accredited college or university in geography or a related field<sup>1</sup> for unconditional admission
- Minimum 3.000 undergraduate GPA on a 4.000 point scale for unconditional admission
- Official transcript(s)
- Goal statement
- Two letters of recommendation
- English language proficiency - all international students must provide proof of English language proficiency (unless they meet specific exceptions) by earning one of the following:



- Minimum 550 TOEFL PBT score (paper-based version)
- Minimum 79 TOEFL IBT score (Internet-based version)
- Minimum 77 MELAB score
- Minimum 6.5 IELTS score
- Minimum 58 PTE score
- Minimum 110 Duolingo English Test score

For more information about graduate admissions, please visit the Graduate Studies admission website. For more information on international admission, visit the Office of Global Education's admission website.

- <sup>1</sup> Requirement that undergraduate degree be in geography or related field may be waived with evidence of professional experience using geospatial technologies or alternative evidence of ability to excel in a geographic information science graduate program.

## Program Learning Outcomes

Graduates of this program will be able to:

1. Collect, edit, integrate, manage and analyze geospatial data.
2. Demonstrate skills and working knowledge of commercial and open source GIS application suites and utilities.
3. Identify, explain and analyze spatial patterns, relationships and processes.
4. Apply cartographic principles and techniques to create quality maps.
5. Apply critical and spatial thinking to solve geospatial problems with respect to theories, principles and practices of geographic information science and fields in the degree concentration areas.
6. Demonstrate good communication skills and ability to work in a team environment.

## Program Requirements

### Major Requirements

Code	Title	Credit Hours
<b>Major Requirements</b>		
GEOG 59071	FUNDAMENTALS OF GEOGRAPHIC INFORMATION SCIENCE I	3
GEOG 59081	FUNDAMENTALS OF GEOGRAPHIC INFORMATION SCIENCE II	3
GEOG 69164	CARTOGRAPHIC DESIGN	3
GEOG 69231	ENVIRONMENTAL REMOTE SENSING	3
GEOG 69392	PRACTICUM IN GEOGRAPHIC INFORMATION SCIENCE <sup>1</sup>	6
Major Electives, choose from the following:		12
CS 61002	ALGORITHMS AND PROGRAMMING I	
CS 61003	ALGORITHMS AND PROGRAMMING II	
EMAT 64210	DATA SCIENCE	
GEOG 59072	GEOGRAPHIC INFORMATION SCIENCE AND HEALTH <sup>2</sup>	
GEOG 59075	GEOGRAPHIC INFORMATION SCIENCE: APPLICATIONS FOR SOCIAL PROBLEMS	
GEOG 59076	SPATIAL PROGRAMMING <sup>2</sup>	
GEOG 59078	GEOGRAPHIC INFORMATION SCIENCE AND ENVIRONMENTAL HAZARDS <sup>2</sup>	
GEOG 69004	QUANTITATIVE METHODS IN GEOGRAPHY	
GEOG 69007	SPATIOTEMPORAL ANALYTICS	

GEOG 69073	GEOGRAPHIC INFORMATION SCIENCE: GLOBAL HEALTH <sup>2</sup>	
GEOG 69074	GEOGRAPHIC INFORMATION SCIENCE: SPATIAL ANALYSIS FOR HEALTH GEOGRAPHY <sup>2</sup>	
GEOG 69079	ENVIRONMENTAL GEOGRAPHIC INFORMATION SCIENCE <sup>2</sup>	
GEOG 69082	CYBERGIS <sup>2</sup>	
GEOG 69083	GEODATABASES <sup>2</sup>	
GEOG 69231	ENVIRONMENTAL REMOTE SENSING <sup>2</sup>	
Minimum Total Credit Hours:		30

- <sup>1</sup> As the capstone to the program, students will complete a practicum that is designed to provide practical experience in the application of MGISc degree course content in real-world professional settings. Students will select a professional project in consultation with their employer and program faculty and then will design, implement and report on their activities in a culminating professional paper.
- <sup>2</sup> Required courses in the student's concentration cannot be also applied toward the major electives.

## Graduation Requirements

- Students must complete a minimum of 30 credit hours.

## Geographic Information Science - Minor

### College of Arts and Sciences

Department of Geography  
413 McGilvrey Hall  
Kent Campus  
330-672-2045  
geography@kent.edu  
www.kent.edu/geography

## Description

The Geographic Information Science minor offers students a foundation in this expanding field and will be of interest to students studying in areas such as anthropology, biology, conservation, computer sciences, sociology and public health.

### Fully Offered At:

- Kent Campus

## Admission Requirements

Admission to a minor is open to students declared in a bachelor's degree, the A.A.B. or A.A.S. degree or the A.T.S. degree (not Individualized Program major). Students declared only in the A.A. or A.S. degree or the A.T.S. degree in Individualized Program may not declare a minor. Students may not pursue a minor and a major in the same discipline.

## Minor Requirements

Code	Title	Credit Hours
<b>Minor Requirement</b>		
GEOG 49070	GEOGRAPHIC INFORMATION SCIENCE	4

GEOG 49080	ADVANCED GEOGRAPHIC INFORMATION SCIENCE	3
Minor Electives, choose from the following:		9-10
GEOG 49072	GEOGRAPHIC INFORMATION SCIENCE AND HEALTH	
GEOG 49075	GEOGRAPHIC INFORMATION SCIENCE: APPLICATIONS FOR SOCIAL PROBLEMS	
GEOG 49076	SPATIAL PROGRAMMING	
GEOG 49078	GEOGRAPHIC INFORMATION SCIENCE AND ENVIRONMENTAL HAZARDS	
GEOG 49085	WEB AND MOBILE GEOGRAPHIC INFORMATION SCIENCE	
GEOG 49162 & GEOG 49163	CARTOGRAPHY and	
GEOG 49195	SPECIAL TOPICS IN GEOGRAPHIC INFORMATION SCIENCE	
GEOG 49230	REMOTE SENSING	
Minimum Total Credit Hours:		16

## Graduation Requirements

Minimum Minor GPA	Minimum Overall GPA
2.000	2.000

- Students must complete at least two upper-division (30000 or 40000 level) courses in the minor at Kent State on a graded basis (A-F).
- Minimum 6 credit hours in the minor must be upper-division coursework (30000 and 40000 level).
- Minimum 6 credit hours in the minor must be outside of the course requirements for any major or other minor the student is pursuing.
- Minimum 50 percent of the total credit hours for the minor must be taken at Kent State (in residence).

## Program Note

- Appropriate specialized offerings may be substituted above as available with the approval of the coordinator.

# Geography - B.A.

College of Arts and Sciences  
 Department of Geography  
 413 McGilvrey Hall  
 Kent Campus  
 330-672-2045  
 geography@kent.edu  
 www.kent.edu/geography

## Description

The Bachelor of Arts degree in Geography emphasizes a growing field that offers a wide range of career options. Geographers study both natural science and social science. Natural science topics include spatial patterns of rocks, soils, animals, plants, climate and weather. Social science topics include spatial patterns of culture, policy, conflict, demographics, economics, resources and waste, with an emphasis on investigating the intersection of human activity and environmental

processes. Geographers use a variety of geospatial technologies to map the world in different ways from the global to the local.

Geographers use data (environmental and social statistics, interviews, textual and landscape analysis and archival documents) to describe natural and social patterns. They then apply their knowledge of human and environmental processes to analyze why these patterns exist. Geographers work at the intersection of multiple disciplines—geology, ecology, climate science, urban planning, economics, sociology, computer science and the humanities—using this knowledge to examine spatial processes. Geographers use GIS software and remote sensing for spatial analysis and cartography.

Geography offers a unique way of seeing and understanding the world, combined with the ability to communicate this understanding to others.

Geography students may apply early to the M.S. degree in Geography and double count 9 credit hours of graduate courses toward both degree programs. See the Combined Bachelor's/Master's Degree Program policy in the University Catalog for more information.

The Geography major comprises the following concentrations:

- The **Environmental Geography** concentration prepares students to work as conservation or parks managers, surveyors, remote sensing technicians, ecologists, hydrologists, water resource managers, national park rangers, climatologists, meteorologists, hazards analysts, epidemiologists and climate change analysts.
- The **Geographic Information Science** concentration prepares students to work as analysts for the federal, state and local government, for businesses and non-profits. Geographic Information scientists also serve as GIS developers, remote sensors, instructors, web developers and cartographers.
- The **Social Geography** concentration prepares students to work as city engineers, urban planners, foreign affairs officers, preservationists, non-profit directors, demographers, cultural resources managers, lobbyists, congressional staffers, emergency management specialists, educators, journalists, community development directors, lawyers and market analysts.

## Fully Offered At:

- Kent Campus

## Admission Requirements

The university affirmatively strives to provide educational opportunities and access to students with varied backgrounds, those with special talents and adult students who graduated from high school three or more years ago.

**Freshman Students on the Kent Campus:** The freshman admission policy on the Kent Campus is selective. Admission decisions are based upon the following: cumulative grade point average, ACT and/or SAT scores, strength of high school college preparatory curriculum and grade trends. The Admissions Office at the Kent Campus may defer the admission of students who do not meet admissions criteria but who demonstrate areas of promise for successful college study. Deferred applicants may begin their college coursework at one of seven regional campuses of Kent State University. For more information on admissions, including additional requirements for some academic programs, visit the admissions website for new freshmen.

**Freshman Students on the Regional Campuses:** Kent State campuses at Ashtabula, East Liverpool, Geauga, Salem, Stark, Trumbull and Tuscarawas, as well as the Regional Academic Center in Twinsburg, have open enrollment admission for students who hold a high school diploma, GED or equivalent.

**English Language Proficiency Requirements for International Students:** All international students must provide proof of English language proficiency (unless they meet specific exceptions) by earning a minimum 525 TOEFL score (71 on the Internet-based version), minimum 75 MELAB score, minimum 6.0 IELTS score or minimum 48 PTE score, or by completing the ESL level 112 Intensive Program. For more information on international admission, visit the Office of Global Education's admission website.

**Transfer, Transitioning and Former Students:** For more information about admission criteria for transfer, transitioning and former students, please visit the admissions website.

## University Requirements

All students in a bachelor's degree program at Kent State University must complete the following university requirements for graduation.

**NOTE:** University requirements may be fulfilled in this program by specific course requirements. Please see Program Requirements for details.

Destination Kent State: First Year Experience	1
Course is not required for students with 25 transfer credits, excluding College Credit Plus, or age 21+ at time of admission.	
Diversity Domestic/Global (DIVD/DIVG)	2 courses
Students must successfully complete one domestic and one global course, of which one must be from the Kent Core.	
Experiential Learning Requirement (ELR)	varies
Students must successfully complete one course or approved experience.	
Kent Core (see table below)	36-37
Writing-Intensive Course (WIC)	1 course
Students must earn a minimum C grade in the course.	
Upper-Division Requirement	39 (or 42)
Students must successfully complete 39 upper-division (numbered 30000 to 49999) credit hours to graduate. Students in a B.A. and/or B.S. degree in the College of Arts and Sciences must complete 42 upper-division credit hours.	
Total Credit Hour Requirement	120
Some bachelor's degrees require students to complete more than 120 credit hours.	

## Kent Core Requirements

Kent Core Composition (KCOMP)	6
Kent Core Mathematics and Critical Reasoning (KMCR)	3
Kent Core Humanities and Fine Arts (KHUM/KFA) (min one course each)	9
Kent Core Social Sciences (KSS) (must be from two disciplines)	6
Kent Core Basic Sciences (KBS/KLAB) (must include one laboratory)	6-7
Kent Core Additional (KADL)	6
<b>Total Credit Hours:</b>	<b>36-37</b>

## Program Requirements

### Major Requirements

Code	Title	Credit Hours
<b>Major Requirements (courses count in major GPA)</b>		
ENVS 22070	NATURE AND SOCIETY (KSS)	3
GEOG 17063	WORLD GEOGRAPHY (DIVG) (KSS)	3
or GEOG 17064	GEOGRAPHY OF THE UNITED STATES AND CANADA (DIVD) (KSS)	
GEOG 21062	PHYSICAL GEOGRAPHY (KBS)	3
GEOG 21063	PHYSICAL GEOGRAPHY LABORATORY (KBS) (KLAB)	1
GEOG 22061	HUMAN GEOGRAPHY (DIVG) (KSS)	3
GEOG 29160	MAPPING OUR WORLD	3
GEOG 39002	STATISTICAL METHODS IN GEOGRAPHY	3
GEOG 40191	SEMINAR IN GEOGRAPHY (ELR) (WIC) <sup>1</sup>	3
GEOG 49070	GEOGRAPHIC INFORMATION SCIENCE	4
<b>Additional Requirements (courses do not count in major GPA)</b>		
UC 10097	DESTINATION KENT STATE: FIRST YEAR EXPERIENCE	1
Foreign Language (see Foreign Language College Requirement below)		14-16
College General Requirement (must be from Kent Core Basic Sciences) <sup>2</sup>		3
College General Requirement (must be from Kent Core Social Sciences) <sup>3</sup>		3
Kent Core Composition		6
Kent Core Mathematics and Critical Reasoning		3
Kent Core Humanities and Fine Arts (minimum one course from each)		9
Kent Core Social Sciences (must be from two disciplines)		3
Kent Core Basic Sciences		2-3
Kent Core Additional		3
General Electives (total credit hours depends on earning 120 credit hours, including 42 upper-division credit hours)		28
<b>Concentrations</b>		
Choose from the following: <sup>4</sup>		18
Environmental Geography		
Geographic Information Science		
Social Geography		
Minimum Total Credit Hours:		120

- <sup>1</sup> A minimum C grade must be earned to fulfill the writing-intensive requirement.
- <sup>2</sup> One additional course taken from the Kent Core Basic Science courses in the following Arts and Sciences disciplines: Anthropology (ANTH), Biological Sciences (BSCI), Chemistry (CHEM), Geography (GEOG), Geology (GEOL) or Physics (PHY). The course may not be from the student's major.
- <sup>3</sup> One additional course taken from the Kent Core Social Sciences courses in the following Arts and Sciences disciplines: Anthropology (ANTH), Geography (GEOG), Criminology and Justice Studies (CRIM), Peace and Conflict Studies (PACS), Political Science (POL), Psychology (PSYC) or Sociology (SOC). The course may not be from the student's major.
- <sup>4</sup> Students can only count an individual course towards one concentration.

## Environmental Geography Concentration

Code	Title	Credit Hours
<b>Concentration Requirements (courses count in major GPA)</b>		
Environmental Geography Electives, choose from the following:		12
GEOG 31062	FUNDAMENTALS OF METEOROLOGY	
GEOG 31064	PRINCIPLES OF CLIMATOLOGY	
GEOG 31070	POPULATION AND THE ENVIRONMENT	
GEOG 31080	GEOGRAPHY OF WINE	
GEOG 32023	CAMPUS AND COMMUNITY GARDENS (ELR)	
GEOG 37010	GEOGRAPHY OF OHIO	
GEOG 37040	GEOGRAPHY OF AFRICA (DIVG)	
GEOG 37045	GEOGRAPHY OF THE MIDDLE EAST	
GEOG 37066	GEOGRAPHY OF EUROPE (DIVG)	
GEOG 37070	GEOGRAPHY OF EAST AND SOUTHEAST ASIA (DIVG)	
GEOG 37072	GEOGRAPHY OF CHINA	
GEOG 37085	GEOGRAPHY OF LATIN AMERICA AND THE CARIBBEAN (DIVG)	
GEOG 41051	NATURAL DISASTERS AND SOCIETY	
GEOG 41052	GLACIERS AND GLACIATION	
GEOG 41065	APPLIED CLIMATOLOGY	
GEOG 41066	GLOBAL CLIMATE CHANGE	
GEOG 41073	CONSERVATION OF NATURAL RESOURCES	
GEOG 41074	RESOURCE GEOGRAPHY	
GEOG 41077	WATER AND SOCIETY	
GEOG 41082	GEOGRAPHY OF SOILS	
GEOG 41195	SPECIAL TOPICS IN ENVIRONMENTAL GEOGRAPHY	
GEOG 42064	SETTLING THE NORTH AMERICAN ENVIRONMENT	
GEOG 46080	URBAN SUSTAINABILITY	
GEOG 49078	GEOGRAPHIC INFORMATION SCIENCE AND ENVIRONMENTAL HAZARDS	
Geographic Information Science Elective, choose from the following:		3
GEOG 44070	SPATIAL ANALYSIS AND LOCATION THEORY	
GEOG 49072	GEOGRAPHIC INFORMATION SCIENCE AND HEALTH	
GEOG 49075	GEOGRAPHIC INFORMATION SCIENCE: APPLICATIONS FOR SOCIAL PROBLEMS	
GEOG 49076	SPATIAL PROGRAMMING	
GEOG 49078	GEOGRAPHIC INFORMATION SCIENCE AND ENVIRONMENTAL HAZARDS	
GEOG 49080	ADVANCED GEOGRAPHIC INFORMATION SCIENCE	
GEOG 49085	WEB AND MOBILE GEOGRAPHIC INFORMATION SCIENCE	
GEOG 49162	CARTOGRAPHY	
GEOG 49195	SPECIAL TOPICS IN GEOGRAPHIC INFORMATION SCIENCE	
GEOG 49230	REMOTE SENSING	
Social Geography Elective, choose from the following:		3
GEOG 31070	POPULATION AND THE ENVIRONMENT	
GEOG 32023	CAMPUS AND COMMUNITY GARDENS (ELR)	
GEOG 32080	POLITICS AND PLACE (DIVG)	
GEOG 34070	ECONOMIC GEOGRAPHY	
GEOG 35065	GEOGRAPHY OF TRANSPORTATION AND SPATIAL INTERACTION	

GEOG 36065	CITIES AND URBANIZATION (DIVG)
GEOG 37010	GEOGRAPHY OF OHIO
GEOG 37040	GEOGRAPHY OF AFRICA (DIVG)
GEOG 37045	GEOGRAPHY OF THE MIDDLE EAST
GEOG 37066	GEOGRAPHY OF EUROPE (DIVG)
GEOG 37070	GEOGRAPHY OF EAST AND SOUTHEAST ASIA (DIVG)
GEOG 37072	GEOGRAPHY OF CHINA
GEOG 37085	GEOGRAPHY OF LATIN AMERICA AND THE CARIBBEAN (DIVG)
GEOG 41051	NATURAL DISASTERS AND SOCIETY
GEOG 41066	GLOBAL CLIMATE CHANGE
GEOG 41073	CONSERVATION OF NATURAL RESOURCES
GEOG 41077	WATER AND SOCIETY
GEOG 42040	TOURISM DEVELOPMENT AND RECREATIONAL TRAVEL
GEOG 42052	MEDICAL GEOGRAPHY
GEOG 42053	GEOGRAPHIES OF MEMORY AND HERITAGE
GEOG 42064	SETTLING THE NORTH AMERICAN ENVIRONMENT
GEOG 42070	SEMINAR IN ETHNIC, LIFESTYLE AND NATIONAL COMMUNITIES
GEOG 42195	SPECIAL TOPICS IN SOCIAL GEOGRAPHY
GEOG 44010	GEOGRAPHIES OF GLOBAL DEVELOPMENT (WIC)
GEOG 45085	URBAN TRANSPORTATION
GEOG 46070	URBAN AND REGIONAL PLANNING
GEOG 46080	URBAN SUSTAINABILITY
GEOG 46081	SEMINAR IN URBAN GEOGRAPHY
GEOG 49072	GEOGRAPHIC INFORMATION SCIENCE AND HEALTH
GEOG 49075	GEOGRAPHIC INFORMATION SCIENCE: APPLICATIONS FOR SOCIAL PROBLEMS

Minimum Total Credit Hours:

18

## Geographic Information Science Concentration

Code	Title	Credit Hours
<b>Concentration Requirements (courses count in major GPA)</b>		
Environmental Geography Elective, choose from the following:		3
GEOG 31062	FUNDAMENTALS OF METEOROLOGY	
GEOG 31064	PRINCIPLES OF CLIMATOLOGY	
GEOG 31070	POPULATION AND THE ENVIRONMENT	
GEOG 31080	GEOGRAPHY OF WINE	
GEOG 32023	CAMPUS AND COMMUNITY GARDENS (ELR)	
GEOG 37010	GEOGRAPHY OF OHIO	
GEOG 37040	GEOGRAPHY OF AFRICA (DIVG)	
GEOG 37045	GEOGRAPHY OF THE MIDDLE EAST	
GEOG 37066	GEOGRAPHY OF EUROPE (DIVG)	
GEOG 37070	GEOGRAPHY OF EAST AND SOUTHEAST ASIA (DIVG)	
GEOG 37072	GEOGRAPHY OF CHINA	
GEOG 37085	GEOGRAPHY OF LATIN AMERICA AND THE CARIBBEAN (DIVG)	
GEOG 41051	NATURAL DISASTERS AND SOCIETY	
GEOG 41052	GLACIERS AND GLACIATION	
GEOG 41065	APPLIED CLIMATOLOGY	
GEOG 41066	GLOBAL CLIMATE CHANGE	

GEOG 41073	CONSERVATION OF NATURAL RESOURCES
GEOG 41074	RESOURCE GEOGRAPHY
GEOG 41077	WATER AND SOCIETY
GEOG 41082	GEOGRAPHY OF SOILS
GEOG 41195	SPECIAL TOPICS IN ENVIRONMENTAL GEOGRAPHY
GEOG 42064	SETTLING THE NORTH AMERICAN ENVIRONMENT
GEOG 46080	URBAN SUSTAINABILITY
GEOG 49078	GEOGRAPHIC INFORMATION SCIENCE AND ENVIRONMENTAL HAZARDS
Geographic Information Science Electives, choose from the following: 12	
GEOG 44070	SPATIAL ANALYSIS AND LOCATION THEORY
GEOG 49072	GEOGRAPHIC INFORMATION SCIENCE AND HEALTH
GEOG 49075	GEOGRAPHIC INFORMATION SCIENCE: APPLICATIONS FOR SOCIAL PROBLEMS
GEOG 49076	SPATIAL PROGRAMMING
GEOG 49078	GEOGRAPHIC INFORMATION SCIENCE AND ENVIRONMENTAL HAZARDS
GEOG 49080	ADVANCED GEOGRAPHIC INFORMATION SCIENCE
GEOG 49085	WEB AND MOBILE GEOGRAPHIC INFORMATION SCIENCE
GEOG 49162	CARTOGRAPHY
GEOG 49195	SPECIAL TOPICS IN GEOGRAPHIC INFORMATION SCIENCE
GEOG 49230	REMOTE SENSING
Social Geography Elective, choose from the following: 3	
GEOG 31070	POPULATION AND THE ENVIRONMENT
GEOG 32023	CAMPUS AND COMMUNITY GARDENS (ELR)
GEOG 32080	POLITICS AND PLACE (DIVG)
GEOG 34070	ECONOMIC GEOGRAPHY
GEOG 36065	CITIES AND URBANIZATION (DIVG)
GEOG 37010	GEOGRAPHY OF OHIO
GEOG 37040	GEOGRAPHY OF AFRICA (DIVG)
GEOG 37045	GEOGRAPHY OF THE MIDDLE EAST
GEOG 37066	GEOGRAPHY OF EUROPE (DIVG)
GEOG 37070	GEOGRAPHY OF EAST AND SOUTHEAST ASIA (DIVG)
GEOG 37072	GEOGRAPHY OF CHINA
GEOG 37085	GEOGRAPHY OF LATIN AMERICA AND THE CARIBBEAN (DIVG)
GEOG 41051	NATURAL DISASTERS AND SOCIETY
GEOG 41066	GLOBAL CLIMATE CHANGE
GEOG 41073	CONSERVATION OF NATURAL RESOURCES
GEOG 41077	WATER AND SOCIETY
GEOG 41082	GEOGRAPHY OF SOILS
GEOG 41195	SPECIAL TOPICS IN ENVIRONMENTAL GEOGRAPHY
GEOG 42040	TOURISM DEVELOPMENT AND RECREATIONAL TRAVEL
GEOG 42052	MEDICAL GEOGRAPHY
GEOG 42053	GEOGRAPHIES OF MEMORY AND HERITAGE
GEOG 42064	SETTLING THE NORTH AMERICAN ENVIRONMENT
GEOG 42070	SEMINAR IN ETHNIC, LIFESTYLE AND NATIONAL COMMUNITIES
GEOG 42195	SPECIAL TOPICS IN SOCIAL GEOGRAPHY
GEOG 44010	GEOGRAPHIES OF GLOBAL DEVELOPMENT (WIC)
GEOG 45085	URBAN TRANSPORTATION

GEOG 46070	URBAN AND REGIONAL PLANNING
GEOG 46080	URBAN SUSTAINABILITY
GEOG 46081	SEMINAR IN URBAN GEOGRAPHY
GEOG 49072	GEOGRAPHIC INFORMATION SCIENCE AND HEALTH
GEOG 49075	GEOGRAPHIC INFORMATION SCIENCE: APPLICATIONS FOR SOCIAL PROBLEMS
Minimum Total Credit Hours: 18	

## Social Geography Concentration

Code	Title	Credit Hours
<b>Concentration Requirements (courses count in major GPA)</b>		
Environmental Geography Elective, choose from the following:		3
GEOG 31062	FUNDAMENTALS OF METEOROLOGY	
GEOG 31064	PRINCIPLES OF CLIMATOLOGY	
GEOG 31070	POPULATION AND THE ENVIRONMENT	
GEOG 31080	GEOGRAPHY OF WINE	
GEOG 32023	CAMPUS AND COMMUNITY GARDENS (ELR)	
GEOG 37010	GEOGRAPHY OF OHIO	
GEOG 37040	GEOGRAPHY OF AFRICA (DIVG)	
GEOG 37045	GEOGRAPHY OF THE MIDDLE EAST	
GEOG 37066	GEOGRAPHY OF EUROPE (DIVG)	
GEOG 37070	GEOGRAPHY OF EAST AND SOUTHEAST ASIA (DIVG)	
GEOG 37072	GEOGRAPHY OF CHINA	
GEOG 37085	GEOGRAPHY OF LATIN AMERICA AND THE CARIBBEAN (DIVG)	
GEOG 41051	NATURAL DISASTERS AND SOCIETY	
GEOG 41052	GLACIERS AND GLACIATION	
GEOG 41065	APPLIED CLIMATOLOGY	
GEOG 41066	GLOBAL CLIMATE CHANGE	
GEOG 41073	CONSERVATION OF NATURAL RESOURCES	
GEOG 41074	RESOURCE GEOGRAPHY	
GEOG 41077	WATER AND SOCIETY	
GEOG 41082	GEOGRAPHY OF SOILS	
GEOG 41195	SPECIAL TOPICS IN ENVIRONMENTAL GEOGRAPHY	
GEOG 42064	SETTLING THE NORTH AMERICAN ENVIRONMENT	
GEOG 46080	URBAN SUSTAINABILITY	
GEOG 49078	GEOGRAPHIC INFORMATION SCIENCE AND ENVIRONMENTAL HAZARDS	
Geographic Information Science Elective, choose from the following:		3
GEOG 44070	SPATIAL ANALYSIS AND LOCATION THEORY	
GEOG 49072	GEOGRAPHIC INFORMATION SCIENCE AND HEALTH	
GEOG 49075	GEOGRAPHIC INFORMATION SCIENCE: APPLICATIONS FOR SOCIAL PROBLEMS	
GEOG 49076	SPATIAL PROGRAMMING	
GEOG 49078	GEOGRAPHIC INFORMATION SCIENCE AND ENVIRONMENTAL HAZARDS	
GEOG 49080	ADVANCED GEOGRAPHIC INFORMATION SCIENCE	
GEOG 49085	WEB AND MOBILE GEOGRAPHIC INFORMATION SCIENCE	
GEOG 49162	CARTOGRAPHY	
GEOG 49195	SPECIAL TOPICS IN GEOGRAPHIC INFORMATION SCIENCE	



GEOG 49230	REMOTE SENSING	
Social Geography Electives, choose from the following:		12
GEOG 31070	POPULATION AND THE ENVIRONMENT	
GEOG 32023	CAMPUS AND COMMUNITY GARDENS (ELR)	
GEOG 32080	POLITICS AND PLACE (DIVG)	
GEOG 34070	ECONOMIC GEOGRAPHY	
GEOG 35065	GEOGRAPHY OF TRANSPORTATION AND SPATIAL INTERACTION	
GEOG 36065	CITIES AND URBANIZATION (DIVG)	
GEOG 37010	GEOGRAPHY OF OHIO	
GEOG 37040	GEOGRAPHY OF AFRICA (DIVG)	
GEOG 37045	GEOGRAPHY OF THE MIDDLE EAST	
GEOG 37066	GEOGRAPHY OF EUROPE (DIVG)	
GEOG 37070	GEOGRAPHY OF EAST AND SOUTHEAST ASIA (DIVG)	
GEOG 37072	GEOGRAPHY OF CHINA	
GEOG 37085	GEOGRAPHY OF LATIN AMERICA AND THE CARIBBEAN (DIVG)	
GEOG 41051	NATURAL DISASTERS AND SOCIETY	
GEOG 41066	GLOBAL CLIMATE CHANGE	
GEOG 41073	CONSERVATION OF NATURAL RESOURCES	
GEOG 41077	WATER AND SOCIETY	
GEOG 42040	TOURISM DEVELOPMENT AND RECREATIONAL TRAVEL	
GEOG 42052	MEDICAL GEOGRAPHY	
GEOG 42053	GEOGRAPHIES OF MEMORY AND HERITAGE	
GEOG 42064	SETTLING THE NORTH AMERICAN ENVIRONMENT	
GEOG 42070	SEMINAR IN ETHNIC, LIFESTYLE AND NATIONAL COMMUNITIES	
GEOG 42195	SPECIAL TOPICS IN SOCIAL GEOGRAPHY	
GEOG 44010	GEOGRAPHIES OF GLOBAL DEVELOPMENT (WIC)	
GEOG 45085	URBAN TRANSPORTATION	
GEOG 46070	URBAN AND REGIONAL PLANNING	
GEOG 46080	URBAN SUSTAINABILITY	
GEOG 46081	SEMINAR IN URBAN GEOGRAPHY	
GEOG 49072	GEOGRAPHIC INFORMATION SCIENCE AND HEALTH	
GEOG 49075	GEOGRAPHIC INFORMATION SCIENCE: APPLICATIONS FOR SOCIAL PROBLEMS	

Minimum Total Credit Hours: 18

- Intermediate I of the same language
- MCLS 10001 INTRODUCTION TO STRUCTURAL CONCEPTS FOR LANGUAGE STUDENTS
- MCLS 20091 VARIABLE CONTENT SEMINAR IN GLOBAL LITERACY: CASE STUDIES
- MCLS 21417 MULTICULTURALISM IN TODAY'S GERMANY (DIVG)
- MCLS 28404 THE LATIN AMERICAN EXPERIENCE (DIVG)

- <sup>1</sup> All students with prior foreign language experience should take the foreign language placement test to determine the appropriate level at which to start. Some students may begin beyond the Elementary I level and will complete the requirement with fewer credit hours and fewer courses. This may be accomplished by (1) passing a course beyond Elementary I through Intermediate II level; (2) receiving credit through Credit by Exam (CBE), Advanced Placement (AP), International Baccalaureate (IB) or College Level Examination Program (CLEP); or (3) being designated a 'native speaker' of a non-English language (consult with the College of Arts and Sciences Advising Office for additional information). When students complete the requirement with fewer than 14 credit hours and four courses, they will complete remaining credit hours with general electives.
- <sup>2</sup> Certain majors, concentrations and minors may require specific languages, limit the languages from which a student may choose or require coursework through Intermediate II. Students who plan to pursue graduate study may need particular language coursework.

## Graduation Requirements

Minimum Major GPA	Minimum Overall GPA
2.000	2.000

## Foreign Language College Requirement

Students pursuing the Bachelor of Arts degree in the College of Arts and Sciences must complete 14-16 credit hours of foreign language.<sup>1</sup>

To complete the requirement, students have the equivalent of Elementary I and II in any language, plus one of the following options:

1. Intermediate I and II of the same language<sup>2</sup>
2. Elementary I and II of a second language
3. Any combination of two courses from the following list:

## Roadmap

This roadmap is a recommended semester-by-semester plan of study for this major. However, courses designated as critical (!) must be completed in the semester listed to ensure a timely graduation.

Semester One		Credits
GEOG 17063	WORLD GEOGRAPHY (DIVG) (KSS)	3
or	or GEOGRAPHY OF THE UNITED STATES AND	
GEOG 17064	CANADA (DIVD) (KSS)	
UC 10097	DESTINATION KENT STATE: FIRST YEAR EXPERIENCE	1
Kent Core Requirement		3
Kent Core Requirement		3
Kent Core Requirement		3
Kent Core Requirement		3
Credit Hours		16
Semester Two		Credits
GEOG 21062	PHYSICAL GEOGRAPHY (KBS)	3
GEOG 21063	PHYSICAL GEOGRAPHY LABORATORY (KBS) (KLAB)	1
GEOG 22061	HUMAN GEOGRAPHY (DIVG) (KSS)	3
Kent Core Requirement		3
Kent Core Requirement		3
Kent Core Requirement		3
Credit Hours		16
Semester Three		Credits
ENVS 22070	NATURE AND SOCIETY (KSS)	3
GEOG 29160	MAPPING OUR WORLD	3
Foreign Language		4
Kent Core Requirement		3
Kent Core Requirement		3
Credit Hours		16
Semester Four		Credits
GEOG 49070	GEOGRAPHIC INFORMATION SCIENCE	4
Foreign Language		4
College General Requirement		3
General Elective		3
Credit Hours		14
Semester Five		Credits
GEOG 39002	STATISTICAL METHODS IN GEOGRAPHY	3
Concentration Elective		3
Foreign Language		3
College General Requirement		3
General Elective		3
Credit Hours		15
Semester Six		Credits
Concentration Elective		3
Foreign Language		3
General Electives		9
Credit Hours		15
Semester Seven		Credits
Concentration Electives		9
General Electives		6
Credit Hours		15
Semester Eight		Credits
GEOG 40191	SEMINAR IN GEOGRAPHY (ELR) (WIC)	3
Concentration Elective		3

General Electives	7
Credit Hours	13
Minimum Total Credit Hours:	120

## Geography - M.S.

### College of Arts and Sciences

#### Department of Geography

413 McGilvrey Hall

Kent Campus

330-672-2045

geography@kent.edu

www.kent.edu/geography

## Description

The Master of Science degree in Geography prepares graduate students for careers in both the academic field and non-academic jobs in various private and governmental agencies, in areas such as urban/economic geography, social geography, physical/environmental geography, and geographic information technology. Students learn geographic thought, research techniques and topical specialties while preparing to conduct original research.

### Fully Offered At:

- Kent Campus

## Admission Requirements

- Bachelor's degree from an accredited college or university for unconditional admission
- Minimum 3.000 undergraduate GPA on a 4.000 point scale for unconditional admission
- Official transcript(s)
- GRE scores
- Résumé
- Goal statement
- Three letters of recommendation
- English language proficiency - all international students must provide proof of English language proficiency (unless they meet specific exceptions) by earning one of the following:
  - Minimum 550 TOEFL PBT score (paper-based version)
  - Minimum 79 TOEFL IBT score (Internet-based version)
  - Minimum 77 MELAB score
  - Minimum 6.5 IELTS score
  - Minimum 58 PTE score
  - Minimum 110 Duolingo English Test score

For more information about graduate admissions, please visit the Graduate Studies admission website. For more information on international admission, visit the Office of Global Education's admission website.

## Program Requirements

### Major Requirements

Code	Title	Credit Hours
<b>Major Requirements</b>		
GEOG 60199	THESIS I <sup>1</sup>	6
GEOG 60800	SEMINAR IN THE DEVELOPMENT OF GEOGRAPHIC THOUGHT	3
GEOG 69701	RESEARCH AND PRESENTATION OF GEOGRAPHIC DATA	3
Major Electives, choose from the following: <sup>2</sup>		6
GEOG 54070	SPATIAL ANALYSIS AND LOCATION THEORY	
GEOG 59070	GEOGRAPHIC INFORMATION SCIENCE	
GEOG 59076	SPATIAL PROGRAMMING	
GEOG 59080	ADVANCED GEOGRAPHIC INFORMATION SCIENCE	
GEOG 59230	REMOTE SENSING	
GEOG 69004	QUANTITATIVE METHODS IN GEOGRAPHY	
Additional Program Requirements <sup>3</sup>		12
Minimum Total Credit Hours:		30

<sup>1</sup> Students may elect to write a thesis or two research papers.

<sup>2</sup> Students who earned their bachelor's degree at Kent State University and have completed the undergraduate equivalents of any techniques courses required in the master's degree can count them toward the techniques courses requirement. Courses taken at the undergraduate level will not count toward the minimum total credit hour requirement for the master's degree; however, the additional techniques courses will not be required.

<sup>3</sup> Maximum 3 credit hours of research (GEOG 60996 or GEOG 60998) may count towards the M.S. degree requirements.

## Roadmap

This roadmap is a recommended semester-by-semester plan of study for this major. However, courses designated as critical (!) must be completed in the semester listed to ensure a timely graduation.

Semester One		Credits
GEOG 60800	SEMINAR IN THE DEVELOPMENT OF GEOGRAPHIC THOUGHT	3
Major Electives or Additional Program Requirements		6
Credit Hours		9
Semester Two		
GEOG 69701	RESEARCH AND PRESENTATION OF GEOGRAPHIC DATA	3
Major Electives or Additional Program Requirements		6
Credit Hours		9
Semester Three		
GEOG 60199	THESIS I	3-6
Major Electives or Additional Program Requirements		6
Credit Hours		9
Semester Four		
GEOG 60199	THESIS I	3
Credit Hours		3
Minimum Total Credit Hours:		30

## Geography - Minor

### College of Arts and Sciences

Department of Geography

413 McGilvrey Hall

Kent Campus

330-672-2045

geography@kent.edu

www.kent.edu/geography

## Description

The Geography minor offers students a foundation in this expanding field and will be of interest to students studying in areas such as geology, education, sociology, biology, political science, history, anthropology and public health.

### Fully Offered At:

- Kent Campus
- Stark Campus

## Admission Requirements

Admission to a minor is open to students declared in a bachelor's degree, the A.A.B. or A.A.S. degree or the A.T.S. degree (not Individualized Program major). Students declared only in the A.A. or A.S. degree or the A.T.S. degree in Individualized Program may not declare a minor. Students may not pursue a minor and a major in the same discipline.

## Minor Requirements

Code	Title	Credit Hours
<b>Minor Requirements</b>		
Minor Electives, choose from the following:		9
ENVS 22070	NATURE AND SOCIETY (KSS)	
GEOG 10160	INTRODUCTION TO GEOGRAPHY	
GEOG 17063	WORLD GEOGRAPHY (DIVG) (KSS)	
GEOG 17064	GEOGRAPHY OF THE UNITED STATES AND CANADA (DIVD) (KSS)	
GEOG 21062	PHYSICAL GEOGRAPHY (KBS)	
GEOG 22061	HUMAN GEOGRAPHY (DIVG) (KSS)	
GEOG 29160	MAPPING OUR WORLD	
Geography Upper-Division Electives (GEOG 30000 or 40000 level)		6
Minimum Total Credit Hours:		15

## Graduation Requirements

Minimum Minor GPA	Minimum Overall GPA
2.000	2.000

- Students must complete at least two upper-division (30000 or 40000 level) courses in the minor at Kent State on a graded basis (A-F).
- Minimum 6 credit hours in the minor must be upper-division coursework (30000 and 40000 level).
- Minimum 6 credit hours in the minor must be outside of the course requirements for any major or other minor the student is pursuing.

- Minimum 50 percent of the total credit hours for the minor must be taken at Kent State (in residence).

## Geography - Ph.D.

### College of Arts and Sciences

Department of Geography  
413 McGilvrey Hall  
Kent Campus  
330-672-2045  
geography@kent.edu  
www.kent.edu/geography

## Description

The Ph.D. degree in Geography provides specialized training and inquiry into contemporary problems in geography.

### Fully Offered At:

- Kent Campus

## Admission Requirements

- Master's degree from an accredited college or university for unconditional admission
- Minimum 3.000 GPA on a 4.000 point scale for unconditional admission
- Official transcript(s)
- GRE scores
- Résumé
- Goal statement
- Three letters of recommendation
- English language proficiency - all international students must provide proof of English language proficiency (unless they meet specific exceptions) by earning one of the following:
  - Minimum 550 TOEFL PBT score (paper-based version)
  - Minimum 79 TOEFL IBT score (Internet-based version)
  - Minimum 77 MELAB score
  - Minimum 6.5 IELTS score
  - Minimum 58 PTE score
  - Minimum 110 Duolingo English Test score

For more information about graduate admissions, please visit the Graduate Studies admission website. For more information on international admission, visit the Office of Global Education's admission website.

## Program Learning Outcomes

Graduates of this program will be able to:

1. Engage in independent research projects.
2. Acquire experiences in formulating research problems, reviewing relevant literature, designing research methodology, analyzing research data and formulating results from academic research.

## Program Requirements

### Major Requirements

Code	Title	Credit Hours
<b>Major Requirements</b>		
Geography Coursework <sup>1</sup>		12
Cognate Discipline <sup>2</sup>		6
Additional Requirements		12
GEOG 80199	DISSERTATION I <sup>3</sup>	30
Minimum Total Credit Hours:		60

<sup>1</sup> Geography coursework must be graded and may include graded independent study. Maximum 3 credit hours of GEOG 80998 may count towards the major requirements. New students are strongly encouraged to take GEOG 69701 and GEOG 70800 courses within the first year of their enrollment, if they have not already taken similar courses at the masters level.

<sup>2</sup> The cognate field must be in a department other than geography. Generally, cognate study is taken with the cognate member of the student's advisory committee.

<sup>3</sup> Candidacy examinations are taken after the dissertation proposal is approved by the committee. This should be completed by the end of the second year of doctoral study. Each doctoral candidate, upon admission to candidacy, must register for GEOG 80199 for a total of 30 credit hours. It is expected that a doctoral candidate will continuously register for Dissertation I, and thereafter GEOG 80299, each semester, until all requirements for the degree have been met.

### graduation requirements

Of the 30 credit hours of coursework required for the degree, students must complete a minimum of 18 credit hours that are letter graded at the doctoral degree-level.

## Urban Studies - Minor

### College of Arts and Sciences

Department of Geography  
413 McGilvrey Hall  
Kent Campus  
330-672-2045  
geography@kent.edu  
www.kent.edu/geography

## Description

The Urban Studies minor provides an understanding of cities, towns, urban life, economics and social relations. The minor focuses on the cities as distinctive entities and explores the meaning and function of cities in the larger society. The Urban Studies minor also demonstrates how the growth and development of cities and towns may be conceived and guided using methods from a variety of disciplines.

### Fully Offered At:

- Kent Campus

## Admission Requirements

Admission to a minor is open to students declared in a bachelor's degree, the A.A.B. or A.A.S. degree or the A.T.S. degree (not Individualized Program major). Students declared only in the A.A. or A.S. degree or the A.T.S. degree in Individualized Program may not declare a minor. Students may not pursue a minor and a major in the same discipline.

## Minor Requirements

Code	Title	Credit Hours
<b>Minor Requirement</b>		
Group A, choose from the following:		9
ECON 42081	URBAN ECONOMICS: CITIES AND HOUSING <sup>1</sup>	
GEOG 36065	CITIES AND URBANIZATION (DIVG)	
GEOG 46070	URBAN AND REGIONAL PLANNING	
POL 30450	URBAN POLITICS AND POLICY <sup>2</sup>	
SOC 32673	URBAN SOCIOLOGY <sup>3</sup>	
Group B, choose from the following: <sup>4</sup>		9
ARCH 45630	INTRODUCTION TO LANDSCAPE ARCHITECTURE	
ECON 32084	ECONOMICS OF THE ENVIRONMENT	
GEOG 45085	URBAN TRANSPORTATION	
GEOG 46070	URBAN AND REGIONAL PLANNING	
GEOG 46080	URBAN SUSTAINABILITY	
GEOG 46081	SEMINAR IN URBAN GEOGRAPHY	
GEOG 49075	GEOGRAPHIC INFORMATION SCIENCE: APPLICATIONS FOR SOCIAL PROBLEMS	
POL 30301	INTRODUCTION TO PUBLIC ADMINISTRATION	
PH 40200	THE BUILT ENVIRONMENT	
Internship <sup>5</sup>		
Minimum Total Credit Hours:		18

<sup>1</sup> Students in this minor can have the ECON 22061 prerequisite waived by contacting the Department of Economics

<sup>2</sup> Students in this minor can have the prerequisite waived by contacting the Department of Political Science

<sup>3</sup> Students in this minor can have the prerequisite waived by contacting the Department of Sociology

<sup>4</sup> Unused courses from the Group A list may be used to fulfill the Group B list. Some courses have prerequisites and the course description should be consulted

<sup>5</sup> Internship credits can come from the participating departments of Economics, Geography, Sociology, Political Science and possibly other departments as approved by the program coordinator

## Graduation Requirements

Minimum Minor GPA	Minimum Overall GPA
2.000	2.000

- Students must complete at least two upper-division (30000 or 40000 level) courses in the minor at Kent State on a graded basis (A-F).

- Minimum 6 credit hours in the minor must be upper-division coursework (30000 and 40000 level).

- Minimum 6 credit hours in the minor must be outside of the course requirements for any major or other minor the student is pursuing.

- Minimum 50 percent of the total credit hours for the minor must be taken at Kent State (in residence).

## Department of Geology

### College of Arts and Sciences

Department of Geology  
221 McGilvrey Hall  
Kent Campus  
330-672-2680  
geology@kent.edu  
www.kent.edu/geology

## Undergraduate Programs

- Earth Science - B.A.
- Geology - B.A.
- Geology - B.S.

## Minors

- Geology
- Earth Science
- Environmental Geology
- Paleontology

## Graduate Programs

- Applied Geology - Ph.D.
- Geology - M.S.

## Department of Geology Faculty

- Chaudhary, Kuldeep (2017), Assistant Professor, Ph.D., University of Texas-Austin, 2013
- Clement, Susanne M. (1995), Associate Professor, Ph.D., Kent State University, 2005
- Hacker, David B. (1989), Professor, Ph.D., Kent State University, 1998
- Herndon, Elizabeth (2014), Assistant Professor
- Holm, Daniel K. (1992), Professor & Department Chair, Ph.D., Harvard University, 1992
- Jefferson, Anne (2012), Associate Professor, Ph.D., Oregon State University, 2006
- Ortiz, Joseph D. (2001), Professor, Ph.D., Oregon State University, 1995
- Rowan, Christopher (2013), Assistant Professor, Ph.D., University of Southampton, 2006
- Schweitzer, Carrie E. (1994), Professor, Ph.D., Kent State University, 2000
- Singer, David M. (2012), Associate Professor, Ph.D., Stanford University, 2008
- Singh, Kuldeep (2017), Assistant Professor, Ph.D., University of Texas at Austin, 2013
- Smith, Alison J. (1990), Professor & Dean, Ph.D., Brown University, 1991
- Taylor, Eric S. (2012), Associate Professor, Ph.D., The Ohio State University, 2012
- Wells, Neil A. (1984), Professor, Ph.D., University of Michigan, Ann Arbor, 1984



- Williams, Jeremy C. (2015), Assistant Professor, Ph.D., University of Massachusetts, Boston, 2014

## Geology (GEOL)

### GEOL 11040 HOW THE EARTH WORKS (KBS) 3 Credit Hours

Explores processes that shape Earth's landscapes (e.g., volcanism, flooding, landslides, sea-level rise, mountain building) and that are of vital interest to humans (e.g., earthquakes, groundwater, energy and mineral resources, climate change).

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Kent Core Basic Sciences, TAG Science, Transfer Module Natural Sciences

### GEOL 11041 HOW THE EARTH WORKS LABORATORY (KBS) (KLAB) 1 Credit Hour

Students study earth materials (e.g., mineral crystals, common and unusual rock specimens) and Google Earth images. Students conduct experiments demonstrating processes at earth's surface such as groundwater pollution, flooding and earthquakes.

**Pre/corequisite:** GEOL 11040.

**Schedule Type:** Laboratory

**Contact Hours:** 3 lab

**Grade Mode:** Standard Letter

**Attributes:** Kent Core Basic Sciences, Kent Core Basic Sciences Lab, TAG Science, Transfer Module Natural Sciences

### GEOL 11042 EARTH AND LIFE THROUGH TIME (KBS) 3 Credit Hours

Explores major events in the history of Earth, including mass extinctions, Snowball Earth hypothesis, birth and death of oceans, growth of continents, explosion of life, dinosaurs and the inter-relatedness of earth and life processes.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Kent Core Basic Sciences, TAG Science, Transfer Module Natural Sciences

### GEOL 11043 EARTH AND LIFE THROUGH TIME LABORATORY (KBS) (KLAB) 1 Credit Hour

Student conduct lab experiments with fossils, rocks and sedimentary features, a river process simulator and the concept of deep time.

**Pre/corequisite:** GEOL 11042.

**Schedule Type:** Laboratory

**Contact Hours:** 3 lab

**Grade Mode:** Standard Letter

**Attributes:** Kent Core Basic Sciences, Kent Core Basic Sciences Lab, TAG Science, Transfer Module Natural Sciences

### GEOL 21062 ENVIRONMENTAL EARTH SCIENCE (KBS) 3 Credit Hours

Application of Earth science to environmental problems, including natural resource extraction, water supply, pollution, waste disposal, landslides, floods and land use planning. Students take local field trips.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Kent Core Basic Sciences, Transfer Module Natural Sciences

### GEOL 21080 ALL ABOUT THE OCEANS (KBS) 3 Credit Hours

Explores the many fascinating (and some still little known) features and processes of the Earth's oceans, including mid-ocean ridges, hydrothermal vents, tsunamis, tides, rogue waves, marine life and the role of the ocean in climate change.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Kent Core Basic Sciences, Transfer Module Natural Sciences

### GEOL 22000 DEGREE AND CAREER PATHS IN GEOLOGY (ELR) 1 Credit Hour

Provides students with an overview of career paths and opportunities in the Geology and Earth Science majors. Components of the course include a journal club; informational presentations by geoscientists in industry, government and academia; and skills training needed for the majors.

Required overnight field trip.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 1 lecture

**Grade Mode:** Standard Letter

**Attributes:** Experiential Learning Requirement

### GEOL 23063 EARTH MATERIALS I 4 Credit Hours

Occurrence, associations, characteristics, crystallography and crystal chemistry of common minerals. Laboratory identification emphasizing physical properties. Required field trip.

**Prerequisite:** GEOL 11040 and GEOL 11041.

**Pre/corequisite:** CHEM 10060.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 5 other

**Grade Mode:** Standard Letter

**Attributes:** TAG Science

### GEOL 31070 EARTH MATERIALS II (WIC) 4 Credit Hours

Occurrence and origin of igneous, sedimentary and metamorphic rocks. Laboratory identification, description and classification of hand specimens. Required field trip.

**Prerequisite:** GEOL 23063.

**Schedule Type:** Laboratory, Lecture

**Contact Hours:** 3 lecture, 2 lab

**Grade Mode:** Standard Letter

**Attributes:** Writing Intensive Course

### GEOL 31080 STRUCTURAL GEOLOGY 4 Credit Hours

Mechanical principles of rock deformation. Structures in sedimentary igneous and metamorphic rocks. Lecture three hours lab two hours weekly. Required field trip.

**Prerequisite:** None.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 5 other

**Grade Mode:** Standard Letter

### GEOL 32066 GEOMORPHOLOGY 4 Credit Hours

Earth's surface features as functions of geological structures, processes and time. Landform analysis using topographic maps and some stereographic aerial photos. Trigonometry recommended.

**Prerequisite:** GEOL 11040 and GEOL 11041.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 4 other

**Grade Mode:** Standard Letter

**GEOL 33025 WATER AND THE ENVIRONMENT 3 Credit Hours**

How water moves on the surface and in the subsurface, with an emphasis on societal issues such as pollution, the conservation and management of water resources, and the impacts of environmental change.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**GEOL 34061 PRINCIPLES OF PALEONTOLOGY 4 Credit Hours**

Concepts applied to study of commonly preserved invertebrate organisms; identification of common North American fossils. Required field trip.

**Prerequisite:** GEOL 11042 and GEOL 11043.

**Corequisite:** BSCI 10002 or BSCI 10110.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 5 other

**Grade Mode:** Standard Letter

**GEOL 40093 VARIABLE TITLE WORKSHOP IN GEOLOGY 1-8 Credit Hours**

(Repeatable for credit)(Slashed with GEOL 50093 and GEOL 70093) Workshop and/or training program focused on a specific professional or disciplinary topic.

**Prerequisite:** Special approval.

**Schedule Type:** Workshop

**Contact Hours:** 1-8 other

**Grade Mode:** Satisfactory/Unsatisfactory

**GEOL 40095 SELECTED TOPICS IN GEOLOGY 1-3 Credit Hours**

(Slashed with GEOL 50095)(Repeatable for credit) Selected topics presented by visiting professors or one-time offerings presented by regular faculty.

**Prerequisite:** 20 credit hours of GEOL courses.

**Schedule Type:** Lecture

**Contact Hours:** 1-3 lecture

**Grade Mode:** Standard Letter

**GEOL 40096 INDIVIDUAL INVESTIGATION IN GEOLOGY 1-3 Credit Hours**

(Repeatable for credit) Directed field, laboratory and/or library research. Written report required. Maximum 3 credit hours applied toward bachelor's degree.

**Prerequisite:** Special approval.

**Schedule Type:** Individual Investigation

**Contact Hours:** 1-3 other

**Grade Mode:** Standard Letter-IP

**GEOL 40380 BIOGEOCHEMISTRY 3 Credit Hours**

(Cross-listed with BSCI 40380, BSCI 50380 and BSCI 70380) (Slashed with GEOL 50380) Biogeochemistry explores the chemical, physical, geological, and biological processes and reactions that shape the world around us, and provides tools for understanding human alterations to global systems. In this course, we will explore elemental cycles in diverse terrestrial and aquatic ecosystems, as well as assess how humans have drastically altered these elemental cycles on a global scale, and the implications of these changes for biological systems.

**Prerequisite:** Minimum C- grade in the following courses BSCI 10110 and BSCI 10120 or GEOL 11040 and (GEOL 11042 or GEOL 21062 or GEOL 21080); and CHEM 10060 and CHEM 10062.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**GEOL 41025 GENERAL GEOPHYSICS 3 Credit Hours**

(Slashed with GEOL 51025) Physics of Earth, seismology, geomagnetism, heat flow, radioactivity, geochronology, geotectonic models. Required field trip.

**Prerequisite:** GEOL 31070 and GEOL 31080 and MATH 12002; and PHY 13001 or PHY 23101.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**GEOL 41073 GEOLOGY OF OHIO 3 Credit Hours**

(Slashed with GEOL 51073) Minerals, rocks, fossils, structural geology, physiography, environmental geology and geologic resources. Required field trips. Does not count toward the Geology major.

**Prerequisite:** Junior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**GEOL 41077 GEOLOGY OF THE NATIONAL PARKS 3 Credit Hours**

(Slashed with GEOL 51077) Introduction to the geology of selected major national parks, emphasizing basic geological principles and the processes that have produced the spectacular scenery, rocks and fossils in each park. Does not count toward the Geology major.

**Prerequisite:** Junior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**GEOL 41079 ALL ABOUT DINOSAURS 3 Credit Hours**

(Slashed with GEOL 51079) Dinosaurs (and some relatives) and their world, emphasizing how to interpret evidence concerning their history, biology and evolutionary relationships. Does not count toward the Geology major.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**GEOL 41080 TECTONICS AND OROGENY 3 Credit Hours**

(Slashed with GEOL 51080) Introduces advanced concepts of plate tectonics and mountain building, with emphasis on Western United States and the Appalachians. Required field trip to New England.

**Prerequisite:** GEOL 31080.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**GEOL 41082 ADVANCED STRUCTURAL GEOLOGY 3 Credit Hours**

(Slashed with GEOL 51082) Theoretical and applied studies in structural geology, including mechanical, mathematical, model and field investigations. Required field trip.

**Prerequisite:** GEOL 31080.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**GEOL 41085 MASS EXTINCTIONS: CAUSES AND CONSEQUENCES 3 Credit Hours**

Investigation of causes and consequences of extinction to marine and terrestrial ecosystems using paleontological, geochemical, sedimentological, and stratigraphical information; emphasizing an Earth System Science approach to the Big Five mass extinctions as well as the possible 6th Extinction occurring now.

**Prerequisite:** Junior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**GEOL 41092 SUMMER FIELD CAMP (ELR) 6 Credit Hours**

(Repeatable for credit)(Slashed with GEOL 51092) Five weeks devoted to geologic mapping and solving structural and stratigraphic problems in the Black Hills of South Dakota.

**Prerequisite:** GEOL 31070 and GEOL 31080.

**Schedule Type:** Practical Experience

**Contact Hours:** 42 other

**Grade Mode:** Standard Letter

**Attributes:** Experiential Learning Requirement

**GEOL 42030 REMOTE SENSING 3 Credit Hours**

(Cross-listed with GEOG 49230)(Slashed with GEOL 52030, GEOL 72030, GEOG 59230, GEOG 79230) Computer analysis of multispectral satellite datasets. Applications in terrestrial Earth science are emphasized.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**GEOL 42035 SCIENTIFIC METHODS IN GEOLOGY 3 Credit Hours**

(Slashed with GEOL 52035) Applying scientific methods to geologic data in the field and laboratory; models and sampling procedures. Collecting and analyzing data. Formulating and testing hypotheses. Provides background necessary for upper-division geology courses.

**Prerequisite:** None.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 2 lecture, 2 lab

**Grade Mode:** Standard Letter

**GEOL 42036 PHYSICAL HYDROGEOLOGY LABORATORY 1 Credit Hour**

(Slashed with GEOL 52036) Laboratory course offering fundamental training for professional hydrogeologists. Required weekend field trip.

**Prerequisite:** Junior standing.

**Corequisite:** GEOL 42066.

**Schedule Type:** Laboratory

**Contact Hours:** 2 lab

**Grade Mode:** Standard Letter

**GEOL 42065 WATERSHED HYDROLOGY 3 Credit Hours**

(Slashed with GEOL 52065) Study of water movement, storage and transformation across landscapes.

**Prerequisite:** Junior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**GEOL 42066 PHYSICAL HYDROGEOLOGY 3 Credit Hours**

(Slashed with GEOL 52066) Principles of water flow in hydrologic cycle, soil and aquifer hydraulic properties, groundwater flow, surface water-groundwater interactions and geochemical evolution of groundwater. Application of principles for evaluation of water resources; emphasizing utilization, conservation and management of groundwater resources in a changing environment.

**Prerequisite:** MATH 12002 or higher MATH course; and junior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**GEOL 42067 INTRODUCTORY HYDROGEOLOGY 3 Credit Hours**

(Slashed with GEOL 52067) Occurrence of ground water in geologic materials; emphasizing utilization, conservation and management of ground water resources.

**Prerequisite:** Junior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**GEOL 42068 CONTAMINANT HYDROLOGY AND HYDROGEOLOGY 3 Credit Hours**

(Slashed with GEOL 52068) An introduction to the basic principles of chemical and physical behavior of contaminants introduced by humans into the environment. Students are expected to understand concepts and work practical quantitative problems.

**Prerequisite:** CHEM 10060 and CHEM 10061 and CHEM 10062 and CHEM 10063 and GEOL 42067.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**GEOL 42069 HYDROGEOCHEMISTRY 3 Credit Hours**

(Slashed with GEOL 52069 and GEOL 72069) Processes and evolution of the chemical composition of water in the natural hydrologic cycle. Methods of hydrochemical interpretation applied to ground water and pollution problems.

**Prerequisite:** 10 credit hours of CHEM courses.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**GEOL 42074 ENVIRONMENTAL CORE AND WELL LOGGING 3 Credit Hours**

(Slashed with GEOL 52074) Examination of subsurface processes and the distribution of stratigraphic layers using core and well-logging techniques and based on analysis of physical properties of sediment, rock and pore fluids. Applications to paleoclimate, hydrogeology, engineering geology, oil and gas exploration and environmental remediation.

**Prerequisite:** GEOL 31070.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**GEOL 42078 ENGINEERING GEOLOGY 4 Credit Hours**

(Slashed with GEOL 52078) Engineering properties of soils and rocks. Site evaluation for building foundations, dams, tunnels and highways. Slope stability.

**Prerequisite:** Geology or Earth Science major; and junior standing.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 4 other

**Grade Mode:** Standard Letter

**GEOL 43040 PRINCIPLES OF GEOCHEMISTRY 3 Credit Hours**  
(Slashed with GEOL 53040) Introduction to chemical thermodynamics and its applications in solving geochemical problems. Distributions of elements and isotopes in the Earth and laws governing these distributions.

**Prerequisite:** CHEM 10060 and CHEM 10061 and GEOL 31070 and MATH 12002.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**GEOL 43042 ENVIRONMENTAL GEOCHEMISTRY 3 Credit Hours**  
(Slashed with GEOL 53042 and GEOL 73042) Explores chemical processes that influence the natural environment, including anthropogenic impacts. Topics include atmospheric chemistry and air pollution, energy and climate change, toxic organic compounds, water chemistry and water pollution, metals, soils, sediments and waste disposal. Environmental problem-solving using steady state and non-steady state box models, thermodynamics and energy transfer and chemical reactions and equilibria. Required half-day field trip.

**Prerequisite:** CHEM 10060 and CHEM 10061.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**GEOL 43043 ENVIRONMENTAL MINERALOGY 3 Credit Hours**  
(Slashed with GEOL 53043) Explores reactions between minerals and aqueous solutions, focusing on their role in chemical weathering, contaminant mobility, microbe-mineral interactions and an understanding of mineral-water interface processes and mechanisms at the molecular level. Through a series of case studies, the course explores the societal impacts of environmental contaminants and the potential role of remediation.

**Prerequisite:** GEOL 23063; and junior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**GEOL 43044 ENVIRONMENTAL ISOTOPES 3 Credit Hours**  
(Slashed with GEOL 53044 and GEOL 73044) Deals with the fundamentals of isotope geochemistry and the application of primarily light stable isotopes (H, O, C, N) to Earth system processes (involving the hydrosphere, biosphere and upper geosphere).

**Prerequisite:** CHEM 10060 and CHEM 10061.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**GEOL 44025 GEOLOGIC HAZARDS AND DISASTERS 3 Credit Hours**  
(Slashed with GEOL 44025) Explores the geological processes that drive a broad range of different natural hazards (including earthquakes, volcanoes, landslides and floods), and how they interact with human behavior to produce geological risks and disasters. Through discussion of historical and topical events, students focus on the dual challenges of combining uncertain and incomplete information from various geological and historical sources into realistic assessments of future risks; and the communication of accurate, relevant, actionable information about these risks to the public and authorities.

**Prerequisite:** Junior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**GEOL 44052 GLACIERS AND GLACIATION 3 Credit Hours**  
(Cross-listed with GEOG 41052, GEOG 51052, GEOG 71052)(Slashed with GEOL 54052, GEOL 74052) Examination of how glacial ice masses change the shape of the earth's surface, how they are integral to climate and sea level change, and how they pose high risk hazards.

**Prerequisite:** GEOG 21062 or GEOL 11040.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**GEOL 44070 SEDIMENTOLOGY AND STRATIGRAPHY 4 Credit Hours**  
(Slashed with GEOL 54070) Students are introduced to the principles regarding the systematics of sedimentary rocks and the relationships between geologic formations at various spatial and temporal scales. Lectures are integrated with readings from the open literature and required labs and field trips.

**Prerequisite:** GEOL 31070.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 3 lecture, 2 lab

**Grade Mode:** Standard Letter

**GEOL 44072 MARINE PROCESSES 3 Credit Hours**  
(Slashed with GEOL 54072) This course is an exploration of the mechanisms (geological, physical, chemical, and biological) through which the ocean operates, and how it influences climate on seasonal, inter-annual, glacial-interglacial and over deep time. Emphasis will be placed on understanding the relative importance of these processes and how they have varied through time, and the potential outcomes of human-induced changes to these processes.

**Prerequisite:** Special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**GEOL 44074 PALEOCEANOGRAPHY 3 Credit Hours**  
(Slashed with GEOL 54074) A broad spectrum of geological approaches. Paleontology, geochemistry and stratigraphy are employed to interpret the history of earth's oceans.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**GEOL 50093 VARIABLE TITLE WORKSHOP IN GEOLOGY 1-8 Credit Hours**  
(Repeatable for credit)(Slashed with GEOL 40093 and GEOL 70093) Workshop or training program focused on a specific professional or disciplinary topic within geology.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Workshop

**Contact Hours:** 1-8 other

**Grade Mode:** Satisfactory/Unsatisfactory

**GEOL 50095 SELECTED TOPICS IN GEOLOGY 1-3 Credit Hours**  
(Slashed with GEOL 50095)(Repeatable for credit) Selected topics presented by visiting professors or one-time offerings presented by regular faculty.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 1-3 lecture

**Grade Mode:** Standard Letter



**GEOL 50380 BIOGEOCHEMISTRY 3 Credit Hours**

(Cross-listed with BSCI 40380, BSCI 50380 and BSCI 70380) (Slashed with GEOL 40380) Biogeochemistry explores the chemical, physical, geological, and biological processes and reactions that shape the world around us, and provides tools for understanding human alterations to global systems. In this course, we will explore elemental cycles in diverse terrestrial and aquatic ecosystems, as well as assess how humans have drastically altered these elemental cycles on a global scale, and the implications of these changes for biological systems.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**GEOL 51025 GENERAL GEOPHYSICS 3 Credit Hours**

(Slashed with GEOL 51025) Physics of Earth, seismology, geomagnetism, heat flow, radioactivity, geochronology, geotectonic models. Required field trip.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**GEOL 51073 GEOLOGY OF OHIO 3 Credit Hours**

(Slashed with GEOL 41073) Minerals, rocks, fossils, structural geology, physiography, environmental geology and geologic resources. Required field trips. Does not count toward the Geology major.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**GEOL 51077 GEOLOGY OF THE NATIONAL PARKS 3 Credit Hours**

(Slashed with GEOL 41077) Introduction to the geology of selected major national parks, emphasizing basic geological principles and the processes that have produced the spectacular scenery, rocks and fossils in each park. Does not count toward the Geology major.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**GEOL 51079 ALL ABOUT DINOSAURS 3 Credit Hours**

(Slashed with GEOL 41079) Dinosaurs (and some relatives) and their world, emphasizing how to interpret evidence concerning their history, biology and evolutionary relationships. Does not count toward the Geology major.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**GEOL 51080 TECTONICS AND OROGENY 3 Credit Hours**

(Slashed with GEOL 41080) Introduces advanced concepts of plate tectonics and mountain building, with emphasis on Western United States and the Appalachians. Required field trip to New England.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**GEOL 51082 ADVANCED STRUCTURAL GEOLOGY 3 Credit Hours**

(Slashed with GEOL 41082) Theoretical and applied studies in structural geology, including mechanical, mathematical, model and field investigations. Required field trip.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**GEOL 51092 SUMMER FIELD CAMP 6 Credit Hours**

(Repeatable for credit)(Slashed with GEOL 41092) Five weeks devoted to geologic mapping and solving structural and stratigraphic problems in the Black Hills of South Dakota.

**Prerequisite:** Graduate standing.

**Schedule Type:** Practical Experience

**Contact Hours:** 42 other

**Grade Mode:** Standard Letter-IP

**GEOL 52030 REMOTE SENSING 3 Credit Hours**

(Cross-listed with GEOG 51052, GEOG 41052, GEOG 71052) (Slashed with GEOL 42030, GEOL 72030) Computer analysis of multispectral satellite datasets. Applications in terrestrial Earth science are emphasized.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**GEOL 52035 SCIENTIFIC METHODS IN GEOLOGY 3 Credit Hours**

(Slashed with GEOL 42035) Applying scientific methods to geologic data in the field and laboratory; models and sampling procedures. Collecting and analyzing data. Formulating and testing hypotheses.

**Prerequisite:** Graduate standing.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 2 lecture, 2 lab

**Grade Mode:** Standard Letter

**GEOL 52036 PHYSICAL HYDROGEOLOGY LAB 1 Credit Hour**

(Slashed with GEOL 52036) Laboratory course offering fundamental training for professional hydrogeologists. Required weekend field trip.

**Prerequisite:** Graduate standing.

**Corequisite:** GEOL 52066.

**Schedule Type:** Laboratory

**Contact Hours:** 2 lab

**Grade Mode:** Standard Letter

**GEOL 52065 WATERSHED HYDROLOGY 3 Credit Hours**

(Slashed with GEOL 42065) Study of water movement, storage and transformation across landscapes.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**GEOL 52066 PHYSICAL HYDROGEOLOGY 3 Credit Hours**

(Slashed with GEOL 42066) Principles of water flow in hydrologic cycle, soil and aquifer hydraulic properties, groundwater flow, surface water-groundwater interactions and geochemical evolution of groundwater. Application of principles for evaluation of water resources; emphasizing utilization, conservation and management of groundwater resources in a changing environment.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter



**GEOL 52067 INTRODUCTORY HYDROGEOLOGY 3 Credit Hours**  
(Slashed with GEOL 42067) Occurrence of ground water in geologic materials; emphasizing utilization, conservation and management of ground water resources.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**GEOL 52068 CONTAMINANT HYDROLOGY AND HYDROGEOLOGY 3 Credit Hours**

(Slashed with GEOL 42068) An introduction to the basic principles of chemical and physical behavior of contaminants introduced by humans into the environment. Students are expected to understand concepts and work practical quantitative problems.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**GEOL 52069 HYDROGEOCHEMISTRY 3 Credit Hours**

(Slashed with GEOL 42069 and GEOL 72069) Processes and evolution of the chemical composition of water in the natural hydrologic cycle. Methods of hydrochemical interpretation applied to ground water and pollution problems.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**GEOL 52074 ENVIRONMENTAL CORE AND WELL LOGGING 3 Credit Hours**

(Slashed with GEOL 42074) Examination of subsurface processes and the distribution of stratigraphic layers using core and well-logging techniques and based on analysis of physical properties of sediment, rock and pore fluids. Applications to paleoclimate, hydrogeology, engineering geology, oil and gas exploration and environmental remediation.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**GEOL 52078 ENGINEERING GEOLOGY 4 Credit Hours**

(Slashed with GEOL 42078) Engineering properties of soils and rocks. Site evaluation for building foundations, dams, tunnels and highways. Slope stability.

**Prerequisite:** Graduate standing.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 4 other

**Grade Mode:** Standard Letter

**GEOL 53040 PRINCIPLES OF GEOCHEMISTRY 3 Credit Hours**

(Slashed with GEOL 43040) Introduction to chemical thermodynamics and its applications in solving geochemical problems. Distributions of elements and isotopes in the Earth and laws governing these distributions.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**GEOL 53042 ENVIRONMENTAL GEOCHEMISTRY 3 Credit Hours**

(Slashed with GEOL 43042 and GEOL 73042) Explores chemical processes that influence the natural environment, including anthropogenic impacts. Topics include atmospheric chemistry and air pollution, energy and climate change, toxic organic compounds, water chemistry and water pollution, metals, soils, sediments and waste disposal. Environmental problem-solving using steady state and non-steady state box models, thermodynamics and energy transfer and chemical reactions and equilibria. Required half-day field trip.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**GEOL 53043 ENVIRONMENTAL MINERALOGY 3 Credit Hours**

(Slashed with GEOL 43043) Explores reactions between minerals and aqueous solutions, focusing on their role in chemical weathering, contaminant mobility, microbe-mineral interactions and an understanding of mineral-water interface processes and mechanisms at the molecular level. Through a series of case studies, the course explores the societal impacts of environmental contaminants and the potential role of remediation.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**GEOL 53044 ENVIRONMENTAL ISOTOPES 3 Credit Hours**

(Slashed with GEOL 43044 and GEOL 73044) Deals with the fundamentals of isotope geochemistry and the application of primarily light stable isotopes (H, O, C, N) to Earth system processes (involving the hydrosphere, biosphere and upper geosphere).

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**GEOL 54025 GEOLOGIC HAZARDS AND DISASTERS 3 Credit Hours**

(Slashed with GEOL 44025) Explores the geological processes that drive a broad range of different natural hazards (including earthquakes, volcanoes, landslides and floods), and how they interact with human behavior to produce geological risks and disasters. Through discussion of historical and topical events, students focus on the dual challenges of combining uncertain and incomplete information from various geological and historical sources into realistic assessments of future risks; and the communication of accurate, relevant, actionable information about these risks to the public and authorities.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**GEOL 54052 GLACIERS AND GLACIATION 3 Credit Hours**

(Cross-listed with GEOG 51052, GEOG 41052, GEOG 71052)(Slashed with GEOL 44052, GEOL 74052) Examination of how glacial ice masses change the shape of the earth's surface, how they are integral to climate and sea level change and how they pose high risk hazards.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**GEOL 54070 SEDIMENTOLOGY AND STRATIGRAPHY 4 Credit Hours**

(Slashed with GEOL 44070) Students are introduced to the principles regarding the systematics of sedimentary rocks and the relationships between geologic formations at various spatial and temporal scales. Lectures are integrated with readings from the open literature and required labs and field trips.

**Prerequisite:** Graduate standing.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 3 lecture, 2 lab, 1 other

**Grade Mode:** Standard Letter

**GEOL 54072 MARINE PROCESSES 3 Credit Hours**

(Slashed with GEOL 44072) This course is an exploration of the mechanisms (geological, physical, chemical, and biological) through which the ocean operates, and how it influences climate on seasonal, inter-annual, glacial-interglacial and over deep time. Emphasis will be placed on understanding the relative importance of these processes and how they have varied through time, and the potential outcomes of human-induced changes to these processes.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**GEOL 54074 PALEOCEANOGRAPHY 3 Credit Hours**

(Slashed with GEOL 44074) A broad spectrum of geological approaches. Paleontology, geochemistry and stratigraphy are employed to interpret the history of earth's oceans.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**GEOL 60080 RESEARCH ORIENTATION 1 Credit Hour**

(Slashed with GEOL 70080) Faculty research presentations; thesis/dissertation proposal preparation; discussion of professional organizations, preparation of manuscripts and oral presentation of papers.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 1 lecture

**Grade Mode:** Satisfactory/Unsatisfactory

**GEOL 60084 GEOLOGY GRADUATE STUDENT ORIENTATION 1 Credit Hour**

(Slashed with GEOL 70084) Introduction to departmental resources, procedures and expectations, as well as approaches to successfully conduct research at a graduate level. Training and experience in presentation of data and college teaching of applied geology, as well as a discussion forum on professional ethics and responsibilities.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 1 lecture

**Grade Mode:** Satisfactory/Unsatisfactory

**GEOL 60091 SEMINAR 1-2 Credit Hours**

(Repeatable for credit)(Slashed with GEOL 70091) Topics in geology varies per course offering.

**Prerequisite:** Graduate standing.

**Schedule Type:** Seminar

**Contact Hours:** 1-2 other

**Grade Mode:** Standard Letter

**GEOL 60095 SELECTED TOPICS IN GEOLOGY 1-3 Credit Hours**

(Repeatable for credit)Selected topics presented by visiting professors or one-time offerings presented by regular faculty.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 1-3 lecture

**Grade Mode:** Standard Letter

**GEOL 60098 RESEARCH 1-15 Credit Hours**

(Repeatable for credit)Research for master's level students. Credits earned may be applied toward degree if department approves.

**Prerequisite:** Graduate standing.

**Schedule Type:** Research

**Contact Hours:** 1-15 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**GEOL 60199 THESIS I 2-6 Credit Hours**

Thesis students must register for a total of 6 hours, 2 to 6 hours in a single semester distributed over several semesters if desired.

**Prerequisite:** Graduate standing.

**Schedule Type:** Masters Thesis

**Contact Hours:** 2-6 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**GEOL 60299 THESIS II 2 Credit Hours**

Thesis students must continue registration each semester until all degree requirements are met.

**Prerequisite:** GEOL 60199; and graduate standing.

**Schedule Type:** Masters Thesis

**Contact Hours:** 2 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**GEOL 61093 WORKSHOP IN COLLEGE TEACHING 1-2 Credit Hours**

(Repeatable for credit)(Slashed with GEOL 71093) Workshop in college teaching.

**Prerequisite:** Graduate standing.

**Schedule Type:** Workshop

**Contact Hours:** 1-2 other

**Grade Mode:** Satisfactory/Unsatisfactory

**GEOL 62011 HYDROLOGY 3 Credit Hours**

(Slashed with GEOL 72011) Introduction to hydrologic measurements, properties of water precipitation, evapotranspiration runoff computations, streamflow and flood routing.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**GEOL 62068 ADVANCED HYDROGEOLOGY 3 Credit Hours**

(Slashed with GEOL 72068) Quantitative approach to occurrence of ground water; methods of investigation, evaluation and development of ground water resources emphasizing optimization and maximal exploitation without environmental changes.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**GEOL 62079 ADVANCED ENGINEERING GEOLOGY 3 Credit Hours**  
(Slashed with GEOL 72079) Role of geology in site selection, design and construction relative to dams, tunnels, highways, slope stability and nuclear power plants. Selected case histories. Field trip and term paper required.

**Prerequisite:** GEOL 52078; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**GEOL 62082 INTRODUCTION TO SOIL MECHANICS 4 Credit Hours**  
(Slashed with GEOL 72082) Engineering properties and engineering behavior of soils, including classification properties, compaction permeability strength and compressibility.

**Prerequisite:** Graduate standing.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 5 other

**Grade Mode:** Standard Letter

**GEOL 62083 ROCK SLOPE STABILITY 3 Credit Hours**

(Slashed with GEOL 72083) Provide information used to recognize, avoid, design for, control and correct slope movements in rocks; determination of shear strength along rock discontinuities; stability analysis of rock slopes.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**GEOL 62084 FOUNDATION ENGINEERING 3 Credit Hours**

(Slashed with GEOL 72084) Seepage and drainage of foundation soils. Subsurface investigations. Principles, design and construction of shallow and deep foundations. Earth retaining structures.

**Prerequisite:** GEOL 52078 or GEOL 72082; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**GEOL 63063 SEDIMENTARY PETROLOGY 3 Credit Hours**

(Slashed with GEOL 73063) Classification, texture, composition, provenance and diagenesis of sandstones and carbonates, following review of optical mineralogy. Petrographic microscopy and other laboratory techniques are emphasized.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**GEOL 64028 PALEOECOLOGY 3 Credit Hours**

(Slashed with GEOL 74028) Relationships between ancient organisms and their environments, as interpreted from fossils, enclosing rock strata and recent analogs. Field and laboratory studies. Saturday field trips.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**GEOL 64030 SYSTEMATIC INVERTEBRATE PALEONTOLOGY I 3 Credit Hours**

(Slashed with GEOL 74030) Detailed investigation and examination of important literature concerning taxonomic characters of invertebrate phyla: Protista, Porifera, Cnidaria and Bryozoa. Numerous oral reports, specimen examination.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**GEOL 64032 SYSTEMATIC INVERTEBRATE PALEONTOLOGY II 3 Credit Hours**

(Slashed with GEOL 74032) Detailed investigation and examination of important literature concerning taxonomic characters of invertebrate phyla: Brachiopoda, Mollusca, Arthropoda and Echinodermata. Numerous oral reports, specimen examination.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**GEOL 64036 CENOZOIC CLIMATE CHANGE 3 Credit Hours**

(Slashed with GEOL 74036) An overview of the concepts and principles involved in interpreting global and hemispheric Cenozoic climate change (past 65 million years). Emphasis on particular temporal and spatial scales and cycles. Extensive reading in scientific journals.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**GEOL 64038 PALEOLIMNOLOGY 3 Credit Hours**

(Slashed with GEOL 74038) An overview of significant topics and applications in paleolimnology of Holocene (last 10,000 years) and Pleistocene (last two million years) records, including current issues in environmental and climatic reconstruction. Extensive reading expected.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**GEOL 70080 RESEARCH ORIENTATION 1 Credit Hour**

(Slashed with GEOL 60080) Faculty research presentations; thesis/dissertation proposal preparation; discussion of professional organizations, preparation of manuscripts and oral presentation of papers.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 1 lecture

**Grade Mode:** Satisfactory/Unsatisfactory

**GEOL 70084 GEOLOGY GRADUATE STUDENT ORIENTATION 1 Credit Hour**

(Slashed with GEOL 60084) Introduction to departmental resources, procedures and expectations, as well as approaches to successfully conduct research at a graduate level. Training and experience in presentation of data and college teaching of applied geology, as well as discussion forum on professional ethics and responsibilities.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 1 lecture

**Grade Mode:** Satisfactory/Unsatisfactory

**GEOL 70091 SEMINAR 1-2 Credit Hours**

(Repeatable for credit)(Slashed with GEOL 60091) Topics in geology varies per course offering.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Seminar

**Contact Hours:** 1-2 other

**Grade Mode:** Standard Letter

**GEOL 70093 VARIABLE TITLE WORKSHOP IN GEOLOGY 1-8 Credit Hours**

(Repeatable for credit)(Slashed with GEOL 40093 and GEOL 50093) Workshop and/or training program, of varying duration focused on a specific professional or disciplinary topic.

**Prerequisite:** Doctoral standing; and special approval.

**Schedule Type:** Workshop

**Contact Hours:** 1-8 other

**Grade Mode:** Satisfactory/Unsatisfactory

**GEOL 71093 WORKSHOP IN COLLEGE TEACHING 1-2 Credit Hours**

(Repeatable for credit)(Slashed with GEOL 61093) Workshop in college teaching.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Workshop

**Contact Hours:** 1-2 other

**Grade Mode:** Satisfactory/Unsatisfactory

**GEOL 72011 HYDROLOGY 3 Credit Hours**

(Slashed with GEOL 62011) Introduction to hydrologic measurements, properties of water precipitation, evapotranspiration, runoff computations, streamflow and flood routing.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**GEOL 72030 REMOTE SENSING 3 Credit Hours**

(Cross-listed with GEOG 71052, GEOG 41052, GEOG 51052) (Slashed with GEOL 42030, GEOL 52030) Computer analysis of multispectral satellite datasets. Applications in terrestrial Earth science are emphasized.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**GEOL 72068 ADVANCED HYDROGEOLOGY 3 Credit Hours**

(Slashed with GEOL 62068) Quantitative approach to occurrence of ground water; methods of investigation evaluation and development of ground water resources emphasizing optimization and maximal exploitation without environmental changes.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**GEOL 72069 HYDROGEOCHEMISTRY 3 Credit Hours**

(Slashed with GEOL 42069 and GEOL 52069) Processes and evolution of the chemical composition of water in the natural hydrologic cycle. Methods of hydrochemical interpretation applied to ground water and pollution problems.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**GEOL 72079 ADVANCED ENGINEERING GEOLOGY 3 Credit Hours**

(Slashed with GEOL 62079) Role of geology in site selection, design and construction relative to dams, tunnels, highways, slope stability and nuclear power plants. Selected case histories. Field trip and term paper required.

**Prerequisite:** GEOL 52078; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**GEOL 72082 INTRODUCTION TO SOIL MECHANICS 4 Credit Hours**

(Slashed with GEOL 62082) Engineering properties and engineering behavior of soils, including classification properties, compaction permeability strength and compressibility.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 5 other

**Grade Mode:** Standard Letter

**GEOL 72083 ROCK SLOPE STABILITY 3 Credit Hours**

(Slashed with GEOL 62083) Provide information used to recognize, avoid, design for control and correct slope movements in rocks; determination of shear strength along rock discontinuities; stability analysis of rock slopes.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**GEOL 72084 FOUNDATION ENGINEERING 3 Credit Hours**

(Slashed with GEOL 62084) Seepage and drainage of foundation soils. Subsurface investigations. Principles, design and construction of shallow and deep foundations. Earth retaining structures.

**Prerequisite:** GEOL 52078 or GEOL 72082; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**GEOL 73042 ENVIRONMENTAL GEOCHEMISTRY 3 Credit Hours**

(Slashed with GEOL 43042 and GEOL 53042) Explores chemical processes that influence the natural environment, including anthropogenic impacts. Topics include atmospheric chemistry and air pollution, energy and climate change, toxic organic compounds, water chemistry and water pollution, metals, soils, sediments and waste disposal. Environmental problem-solving using steady state and non-steady state box models, thermodynamics and energy transfer and chemical reactions and equilibria. Required half-day field trip.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**GEOL 73044 ENVIRONMENTAL ISOTOPES 3 Credit Hours**

(Slashed with GEOL 43044 and GEOL 53044) Deals with the fundamentals of isotope geochemistry and the application of primarily light stable isotopes (H, O, C, N) to Earth system processes (involving the hydrosphere, biosphere and upper geosphere).

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter



**GEOL 73063 SEDIMENTARY PETROLOGY 3 Credit Hours**

(Slashed with GEOL 63063) Classification, texture, composition, provenance and diagenesis of sandstones and carbonates, following review of optical mineralogy. Petrographic microscopy and other laboratory techniques are emphasized.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**GEOL 74028 PALEOECOLOGY 3 Credit Hours**

(Slashed with GEOL 64028) Relationships between ancient organisms and their environments, as interpreted from fossils, enclosing rock strata and recent analogs. Field and laboratory studies. Saturday field trips.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**GEOL 74030 SYSTEMATIC INVERTEBRATE PALEONTOLOGY I 3 Credit Hours**

(Slashed with GEOL 64030) Detailed investigation and examination of important literature concerning taxonomic characters of invertebrate phyla: Protista, Porifera, Cnidaria and Bryozoa. Numerous oral reports, specimen examination.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**GEOL 74032 SYSTEMATIC INVERTEBRATE PALEONTOLOGY II 3 Credit Hours**

(Slashed with GEOL 64032) Detailed investigation and examination of important literature concerning taxonomic characters of invertebrate phyla: Brachiopoda, Mollusca, Arthropoda and Echinodermata. Numerous oral reports, specimen examination.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**GEOL 74036 CENOZOIC CLIMATE CHANGE 3 Credit Hours**

(Slashed with GEOL 64036) An overview of the concepts and principles involved in interpreting global and hemispheric Cenozoic climate change (past 65 million years). Emphasis on particular temporal and spatial scales and cycles. Extensive reading in scientific journals.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**GEOL 74038 PALEOLIMNOLOGY 3 Credit Hours**

(Slashed with GEOL 64038) An overview of significant topics and applications in paleolimnology of Holocene (last 10,000 years) and Pleistocene (last two million years) records, including current issues in environmental and climatic reconstruction. Extensive reading expected.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**GEOL 74052 GLACIERS AND GLACIATION 3 Credit Hours**

(Cross-listed with GEOG 71052, GEOG 41052, GEOG 51052) (Slashed with GEOL 44052, GEOL 54052) Examination of how glacial ice masses change the shape of the earth's surface, how they are integral to climate and sea level change and how they pose high risk hazards.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**GEOL 80095 ADVANCED TOPICS IN GEOLOGY 1-3 Credit Hours**

(Repeatable for credit) Advanced topics presented by visiting professors or one-time offerings presented by regular faculty.

**Prerequisite:** Doctoral standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 1-3 lecture

**Grade Mode:** Standard Letter

**GEOL 80098 RESEARCH 1-15 Credit Hours**

(Repeatable for credit) Research for doctoral students. Credits earned may be applied toward degree with departmental approval.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Research

**Contact Hours:** 1-15 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**GEOL 80199 DISSERTATION I 15 Credit Hours**

(Repeatable for credit) Doctoral dissertation, for which registration in at least two semesters is required first of which will be semester in which dissertation work is begun and continuing until the completion of 30 hours. rerequisite: Admission to candidacy for doctoral degree; and doctoral standing.

**Schedule Type:** Dissertation

**Contact Hours:** 15 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**GEOL 80299 DISSERTATION II 15 Credit Hours**

(Repeatable for credit) Continuing registration required of doctoral students who have completed the initial 30 hours of dissertation, continuing until all degree requirements are met.

**Prerequisite:** GEOL 80199; and doctoral standing.

**Schedule Type:** Dissertation

**Contact Hours:** 15 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

## Applied Geology - Ph.D.

**College of Arts and Sciences**

Department of Geology

221 McGilvrey Hall

Kent Campus

330-672-2680

geology@kent.edu

www.kent.edu/geology

## Description

The Ph.D. degree in Applied Geology prepares students for careers in industry and academic institutions where research into the application of geological principles focuses on solutions to basic and applied research questions. Focus areas include environmental research (water, surface and subsurface processes; geohazards; and natural resources), as well



as evolution of earth's systems research (climate change, paleoecology and evolution, crustal processes).

### Fully Offered At:

- Kent Campus

## Admission Requirements

- Bachelor's degree from an accredited college or university for unconditional admission
- Minimum 3.000 undergraduate GPA on a 4.000 point scale for unconditional admission
- Official transcript(s)
- Goal statement
- Three letters of recommendation
- English language proficiency - all international students must provide proof of English language proficiency (unless they meet specific exceptions) by earning one of the following:
  - Minimum 550 TOEFL PBT score (paper-based version)
  - Minimum 79 TOEFL IBT score (Internet-based version)
  - Minimum 77 MELAB score
  - Minimum 6.5 IELTS score
  - Minimum 58 PTE score
  - Minimum 110 Duolingo English Test score

For more information about graduate admissions, please visit the Graduate Studies admission website. For more information on international admission, visit the Office of Global Education's admission website.

## Program Learning Outcomes

Graduates of this program will be able to:

1. Show in-depth comprehension of several areas including both basic and applied aspects of Geology/Earth Sciences.
2. Demonstrate the ability to formulate testable scientific hypotheses and carry out independent research using appropriate field, experimental, analytical and/or computational methods.
3. Describe, synthesize, and interpret the results of a scientific investigation and understand its broader applications.

## Program Requirements

### Major Requirements

Code	Title	Credit Hours
<b>Major Requirements</b>		
GEOL 70084	GEOLGY GRADUATE STUDENT ORIENTATION	1
GEOL 80199	DISSERTATION I <sup>1</sup>	30
Additional Requirements		29-39
<b>Minimum Total Credit Hours for Post-Baccalaureate Students</b>		<b>90</b>
<b>Minimum Total Credit Hours for Post-Master's Students</b>		<b>60</b>

<sup>1</sup> Each doctoral candidate, upon admission to candidacy, must register for GEOL 80199 for a total of 30 credit hours. It is expected that a doctoral candidate will continuously register for Dissertation I, and thereafter GEOL 80299, each semester, until all requirements for the degree have been met.

## Graduation Requirements

All students will have a fundamental knowledge and understanding of Earth Materials and a field experience by the end of the second year in the program. This will be fulfilled by:

1. a lecture and lab course in Earth Materials, related to mineralogy and/or petrology, and
2. a three-to-five week Field camp or field experience, as determined by the graduate coordinator.

## Candidacy

To be admitted to candidacy for the doctoral degree, a student must pass comprehensive written and oral examinations prior to the start of the fifth semester after admission to the doctoral program. The comprehensive examinations focus on mastery of the student's major area of concentration and one minor area, as well as the fundamentals of geology and its allied sciences as appropriate to the student's proposed dissertation topic. Students who fail the comprehensive examinations may be allowed to repeat them once; this must be completed more than one month after the initial examination, but less than six months thereafter.

## Residency

All students admitted to the doctoral program must complete two successive semesters of full-time graduate study at Kent State University. During this time they must obtain a minimum of 22 credit hours.

## Earth Science - B.A.

### College of Arts and Sciences

Department of Geology  
221 McGilvrey Hall  
Kent Campus  
330-672-2680  
geology@kent.edu  
www.kent.edu/geology

## Description

The Bachelor of Arts degree in Earth Science is ideal for students interested in broad interdisciplinary study of the key natural and physical processes that shape the planet, leading to potential careers in environmental or earth system fields. The program requires 28 credit hours of geology, including courses in physical geology, minerals and rocks, and 10 credit hours of geography, including GIS. Most geology courses have extensive (one-to-three-day) excursions that allow students to obtain valuable field experience.

Graduates have opportunities for employment in a wide variety of careers where an understanding of natural science is useful or critical in success. Geology can be a strong background for advanced study or career development in areas such as business, city management, regional development, planning, law, journalism and science writing.

### Fully Offered At:

- Kent Campus

## Admission Requirements

The university affirmatively strives to provide educational opportunities and access to students with varied backgrounds, those with special talents and adult students who graduated from high school three or more years ago.

**Freshman Students on the Kent Campus:** The freshman admission policy on the Kent Campus is selective. Admission decisions are based upon the following: cumulative grade point average, ACT and/or SAT scores, strength of high school college preparatory curriculum and grade trends. The Admissions Office at the Kent Campus may defer the admission of students who do not meet admissions criteria but who demonstrate areas of promise for successful college study. Deferred applicants may begin their college coursework at one of seven regional campuses of Kent State University. For more information on admissions, including additional requirements for some academic programs, visit the admissions website for new freshmen.

**Freshman Students on the Regional Campuses:** Kent State campuses at Ashtabula, East Liverpool, Geauga, Salem, Stark, Trumbull and Tuscarawas, as well as the Regional Academic Center in Twinsburg, have open enrollment admission for students who hold a high school diploma, GED or equivalent.

**English Language Proficiency Requirements for International Students:** All international students must provide proof of English language proficiency (unless they meet specific exceptions) by earning a minimum 525 TOEFL score (71 on the Internet-based version), minimum 75 MELAB score, minimum 6.0 IELTS score or minimum 48 PTE score, or by completing the ESL level 112 Intensive Program. For more information on international admission, visit the Office of Global Education's admission website.

**Transfer, Transitioning and Former Students:** For more information about admission criteria for transfer, transitioning and former students, please visit the admissions website.

## Program Learning Outcomes

Graduates of this program will be able to:

1. Understand and communicate to others: a. the nature of scientific investigation and evidence, b. the complex interrelationships of the biosphere, atmosphere, hydrosphere, and the lithosphere through geologic time.
2. Understand Earth materials and interpret geologic and environmental processes.
3. Synthesize geologic information to understand and solve geologic and environmental problems.
4. Students will demonstrate critical thinking skills and be able to work as a geologist in the field and in the laboratory.

## University Requirements

All students in a bachelor's degree program at Kent State University must complete the following university requirements for graduation.

**NOTE:** University requirements may be fulfilled in this program by specific course requirements. Please see Program Requirements for details.

Destination Kent State: First Year Experience	1
Course is not required for students with 25 transfer credits, excluding College Credit Plus, or age 21+ at time of admission.	
Diversity Domestic/Global (DIVD/DIVG)	2 courses
Students must successfully complete one domestic and one global course, of which one must be from the Kent Core.	
Experiential Learning Requirement (ELR)	varies
Students must successfully complete one course or approved experience.	
Kent Core (see table below)	36-37
Writing-Intensive Course (WIC)	1 course
Students must earn a minimum C grade in the course.	
Upper-Division Requirement	39 (or 42)
Students must successfully complete 39 upper-division (numbered 30000 to 49999) credit hours to graduate. Students in a B.A. and/or B.S. degree in the College of Arts and Sciences must complete 42 upper-division credit hours.	
Total Credit Hour Requirement	120
Some bachelor's degrees require students to complete more than 120 credit hours.	

## Kent Core Requirements

Kent Core Composition (KCMP)	6
Kent Core Mathematics and Critical Reasoning (KMCR)	3
Kent Core Humanities and Fine Arts (KHUM/KFA) (min one course each)	9
Kent Core Social Sciences (KSS) (must be from two disciplines)	6
Kent Core Basic Sciences (KBS/KLAB) (must include one laboratory)	6-7
Kent Core Additional (KADL)	6
<b>Total Credit Hours:</b>	<b>36-37</b>

## Program Requirements

### Major Requirements

Code	Title	Credit Hours
<b>Major Requirements (courses count in major GPA)</b>		
CHEM 10060	GENERAL CHEMISTRY I (KBS)	4
CHEM 10062	GENERAL CHEMISTRY I LABORATORY (KBS) (KLAB)	1
GEOG 49070	GEOGRAPHIC INFORMATION SCIENCE	4
GEOL 11040	HOW THE EARTH WORKS (KBS)	3
GEOL 11041	HOW THE EARTH WORKS LABORATORY (KBS) (KLAB)	1
GEOL 11042	EARTH AND LIFE THROUGH TIME (KBS)	3
or GEOL 21062	ENVIRONMENTAL EARTH SCIENCE (KBS)	
or GEOL 21080	ALL ABOUT THE OCEANS (KBS)	
GEOL 22000	DEGREE AND CAREER PATHS IN GEOLOGY (ELR)	1
GEOL 23063	EARTH MATERIALS I	4
GEOL 31070	EARTH MATERIALS II (WIC) <sup>1</sup>	4
GEOL 42035	SCIENTIFIC METHODS IN GEOLOGY	3
MATH 11010	ALGEBRA FOR CALCULUS (KMCR)	3
Geology (GEOL) Upper-Division Electives (30000 or 40000 level) <sup>2</sup>		9
Geography (GEOG) Upper-Division Electives (30000 or 40000 level), choose from the following: <sup>2</sup>		6
GEOL 31062	FUNDAMENTALS OF METEOROLOGY	
GEOL 31064	PRINCIPLES OF CLIMATOLOGY	

GEOG 41065	APPLIED CLIMATOLOGY	
GEOG 41066	GLOBAL CLIMATE CHANGE	
GEOG 41073	CONSERVATION OF NATURAL RESOURCES	
GEOG 49078	GEOGRAPHIC INFORMATION SCIENCE AND ENVIRONMENTAL HAZARDS	
<b>Additional Program Requirements (courses do not count in major GPA)</b>		
UC 10097	DESTINATION KENT STATE: FIRST YEAR EXPERIENCE	1
Foreign Language (see Foreign Language College Requirement below)		14-16
College General Requirement (must be from Kent Core Social Sciences) <sup>3</sup>		3
Kent Core Composition		6
Kent Core Humanities and Fine Arts (minimum one course from each)		9
Kent Core Social Sciences (must be from two disciplines)		6
General Electives (total credit hours depends on earning 120 credit hours, including 42 upper-division credit hours)		16
Minimum Total Credit Hours:		101

- <sup>1</sup> A minimum C grade must be earned to fulfill the writing-intensive requirement.
- <sup>2</sup> Other relevant courses may be substituted in consultation with an advisor.
- <sup>3</sup> One additional course taken from the Kent Core Social Sciences courses in the following Arts and Sciences disciplines: Anthropology (ANTH), Geography (GEOG), Criminology and Justice Studies (CRIM), Peace and Conflict Studies (PACS), Political Science (POL), Psychology (PSYC) or Sociology (SOC). The course may not be from the student's major.

## Graduation Requirements

Minimum Major GPA	Minimum Overall GPA
2.000	2.000

## Foreign Language College Requirement

Students pursuing the Bachelor of Arts degree in the College of Arts and Sciences must complete 14-16 credit hours of foreign language.<sup>1</sup>

To complete the requirement, students have the equivalent of Elementary I and II in any language, plus one of the following options:

1. Intermediate I and II of the same language<sup>2</sup>
2. Elementary I and II of a second language
3. Any combination of two courses from the following list:
  - Intermediate I of the same language
  - MCLS 10001 INTRODUCTION TO STRUCTURAL CONCEPTS FOR LANGUAGE STUDENTS
  - MCLS 20091 VARIABLE CONTENT SEMINAR IN GLOBAL LITERACY: CASE STUDIES
  - MCLS 21417 MULTICULTURALISM IN TODAY'S GERMANY (DIVG)
  - MCLS 28404 THE LATIN AMERICAN EXPERIENCE (DIVG)

- <sup>1</sup> All students with prior foreign language experience should take the foreign language placement test to determine the appropriate level at which to start. Some students may begin beyond the Elementary I level and will complete the requirement with fewer credit hours and fewer courses. This may be accomplished by (1) passing a course beyond Elementary I through Intermediate II level; (2) receiving credit through Credit by Exam (CBE), Advanced Placement (AP), International Baccalaureate (IB) or College Level Examination Program (CLEP); or (3) being designated a 'native speaker' of a non-English language (consult with the College of Arts and Sciences Advising Office for additional information). When students complete the requirement with fewer than 14 credit hours and four courses, they will complete remaining credit hours with general electives.
- <sup>2</sup> Certain majors, concentrations and minors may require specific languages, limit the languages from which a student may choose or require coursework through Intermediate II. Students who plan to pursue graduate study may need particular language coursework.

## Roadmap

This roadmap is a recommended semester-by-semester plan of study for this major. However, courses designated as critical (!) must be completed in the semester listed to ensure a timely graduation.

Semester One		Credits
GEOL 11040	HOW THE EARTH WORKS (KBS)	3
GEOL 11041	HOW THE EARTH WORKS LABORATORY (KBS) (KLAB)	1
MATH 11010	ALGEBRA FOR CALCULUS (KMCR)	3
UC 10097	DESTINATION KENT STATE: FIRST YEAR EXPERIENCE	1
Foreign Language		4
Kent Core Requirement		3
Credit Hours		15
Semester Two		Credits
GEOL 11042	EARTH AND LIFE THROUGH TIME (KBS)	3
or	or ENVIRONMENTAL EARTH SCIENCE (KBS)	
GEOL 21062	or ALL ABOUT THE OCEANS (KBS)	
or	or	
GEOL 21080		
GEOL 22000	DEGREE AND CAREER PATHS IN GEOLOGY (ELR)	1
GEOL 42035	SCIENTIFIC METHODS IN GEOLOGY	3
Kent Core Requirement		3
Foreign Language		4
Credit Hours		14
Semester Three		Credits
CHEM 10060	GENERAL CHEMISTRY I (KBS)	4
CHEM 10062	GENERAL CHEMISTRY I LABORATORY (KBS) (KLAB)	1
GEOL 23063	EARTH MATERIALS I	4
Foreign Language		3
Kent Core Requirement		3
Kent Core Requirement		3
Credit Hours		18
Semester Four		Credits
GEOG 49070	GEOGRAPHIC INFORMATION SCIENCE	4
GEOL 31070	EARTH MATERIALS II (WIC)	4
Foreign Language		3
Kent Core Requirement		3
Credit Hours		14
Semester Five		Credits
Geography (GEOG) Upper-Division Electives (30000 or 40000 level)		3
Geology (GEOL) Upper-Division Electives (30000 or 40000 level)		3
Kent Core Requirement		3
Kent Core Requirement		3
General Electives		3
Credit Hours		15
Semester Six		Credits
Geography (GEOG) Upper-Division Electives (30000 or 40000 level)		3
Geology (GEOL) Upper-Division Electives (30000 or 40000 level)		3
College General Requirement		3
General Electives		6
Credit Hours		15
Semester Seven		Credits
Geology (GEOL) Upper-Division Electives (30000 or 40000 level)		3

General Electives	12
Credit Hours	15
Semester Eight	
General Electives	14
Credit Hours	14
Minimum Total Credit Hours:	120

## Earth Science- Minor

### College of Arts and Sciences

Department of Geology

221 McGilvrey Hall

Kent Campus

330-672-2680

geology@kent.edu

www.kent.edu/geology

## Description

The Earth Science minor prepares students to integrate concepts and knowledge of Earth's surface, its interior, and its interactions with life and water. Scientific knowledge about Earth processes and earth-life-water interactions is critical for making informed decisions in science education, public policy, public health, conservation, resource management, and environmental consulting. Students will gain essential knowledge of earth systems science, including the interactions of earth's atmosphere, biosphere, hydrosphere, and lithosphere over both shorter (millennium) and longer (mega-annum) time periods.

### Fully Offered At:

- Kent Campus
- Stark Campus

## Admission Requirements

Admission to a minor is open to students declared in a bachelor's degree, the A.A.B. or A.A.S. degree or the A.T.S. degree (not Individualized Program major). Students declared only in the A.A. or A.S. degree or the A.T.S. degree in Individualized Program may not declare a minor. Students may not pursue a minor and a major in the same discipline.

To declare Earth Science minor, students must have a minimum 2.000 overall Kent State University GPA. No Kent State University GPA is required if the student is a first-semester freshman or transfer student admitted in good standing.

## Minor Requirements

Code	Title	Credit Hours
GEOG 41066	GLOBAL CLIMATE CHANGE	3
GEOL 11040	HOW THE EARTH WORKS (KBS)	3
GEOL 33025	WATER AND THE ENVIRONMENT	3
Minor Electives, choose from the following: <sup>1</sup>		6-7
GEOL 31062	FUNDAMENTALS OF METEOROLOGY	
GEOL 41073	CONSERVATION OF NATURAL RESOURCES	
GEOL 49070	GEOGRAPHIC INFORMATION SCIENCE	
GEOL 42030	REMOTE SENSING	
GEOL 44025	GEOLOGIC HAZARDS AND DISASTERS	

GEOL 44074	PALEOCEANOGRAPHY
Minimum Total Credit Hours:	15

<sup>1</sup> Other relevant courses may be substituted in consultation with an adviser.

## Graduation Requirements

Minimum Minor GPA	Minimum Overall GPA
2.000	2.000

- Students must complete at least two upper-division (30000 or 40000 level) courses in the minor at Kent State on a graded basis (A-F).
- Minimum 6 credit hours in the minor must be upper-division coursework (30000 and 40000 level).
- Minimum 6 credit hours in the minor must be outside of the course requirements for any major or other minor the student is pursuing.
- Minimum 50 percent of the total credit hours for the minor must be taken at Kent State (in residence).

## Environmental Geology - Minor

### College of Arts and Sciences

Department of Geology  
221 McGilvrey Hall  
Kent Campus  
330-672-2680  
geology@kent.edu  
www.kent.edu/geography

## Description

The Environmental Geology minor prepares students to integrate concepts and knowledge of environmental geology and to communicate these issues to a variety of audiences, including policymakers and the public. Scientific knowledge about Environmental Geology processes is used to inform different areas of formal study such as anthropology, architecture, geography, political science, environmental law, environmental studies, and recreation and park management. Students will gain broad knowledge of geology, and the environmental impacts of anthropogenic-induced change on the earth in the immediate short-term and over longer periods. Competencies focus on human-water-rock interactions at Earth's surface (the critical zone).

### Fully Offered At:

- Kent Campus
- Stark Campus

## Admission Requirements

Admission to a minor is open to students declared in a bachelor's degree, the A.A.B. or A.A.S. degree or the A.T.S. degree (not Individualized Program major). Students declared only in the A.A. or A.S. degree or the A.T.S. degree in Individualized Program may not declare a minor. Students may not pursue a minor and a major in the same discipline.

To declare the Environmental Geology minor, students must have a minimum 2.000 overall Kent State University GPA. No Kent State University GPA is required if the student is a first-semester freshman or transfer student admitted in good standing.

## Minor Requirements

Code	Title	Credit Hours
<b>Minor Requirements</b>		
GEOL 21062	ENVIRONMENTAL EARTH SCIENCE (KBS)	3
GEOL 11040	HOW THE EARTH WORKS (KBS)	3
or GEOL 21080	ALL ABOUT THE OCEANS (KBS)	
GEOL 33025	WATER AND THE ENVIRONMENT	3
Geology (GEOL) Electives, choose from the following:		6-7
GEOL 32066	GEOMORPHOLOGY	
GEOL 40380	BIOGEOCHEMISTRY	
GEOL 41085	MASS EXTINCTIONS: CAUSES AND CONSEQUENCES	
GEOL 42030	REMOTE SENSING	
GEOL 42035	SCIENTIFIC METHODS IN GEOLOGY	
GEOL 44025	GEOLOGIC HAZARDS AND DISASTERS	
GEOL 44072	MARINE PROCESSES	
GEOL 44074	PALEOCEANOGRAPHY	

Minimum Total Credit Hours: 15

## Graduation Requirements

Minimum Minor GPA	Minimum Overall GPA
2.000	2.000

- Students must complete at least two upper-division (30000 or 40000 level) courses in the minor at Kent State on a graded basis (A-F).
- Minimum 6 credit hours in the minor must be upper-division coursework (30000 and 40000 level).
- Minimum 6 credit hours in the minor must be outside of the course requirements for any major or other minor the student is pursuing.
- Minimum 50 percent of the total credit hours for the minor must be taken at Kent State (in residence).

## Geology - B.A.

### College of Arts and Sciences

Department of Geology  
221 McGilvrey Hall  
Kent Campus  
330-672-2680  
geology@kent.edu  
www.kent.edu/geology

## Description

The Bachelor of Arts degree in Geology prepares graduates for employment in a wide variety of careers where an understanding of the natural sciences is useful or critical for success. Geology can be a strong background for advanced study or career development in areas such as business, city management, regional development, planning, law, journalism and science writing. The curriculum includes courses concerning minerals, rocks, fossils and field mapping, among others. These courses are supplemented by courses such as introductory chemistry, biology and mathematics.

Geology students may apply early to the M.S. degree in Geology and double count 9 credit hours of graduate courses toward both degree



programs. See the Combined Bachelor's/Master's Degree Program policy in the University Catalog for more information.

### Fully Offered At:

- Kent Campus
- Stark Campus

## Admission Requirements

The university affirmatively strives to provide educational opportunities and access to students with varied backgrounds, those with special talents and adult students who graduated from high school three or more years ago.

**Freshman Students on the Kent Campus:** The freshman admission policy on the Kent Campus is selective. Admission decisions are based upon the following: cumulative grade point average, ACT and/or SAT scores, strength of high school college preparatory curriculum and grade trends. The Admissions Office at the Kent Campus may defer the admission of students who do not meet admissions criteria but who demonstrate areas of promise for successful college study. Deferred applicants may begin their college coursework at one of seven regional campuses of Kent State University. For more information on admissions, including additional requirements for some academic programs, visit the admissions website for new freshmen.

**Freshman Students on the Regional Campuses:** Kent State campuses at Ashtabula, East Liverpool, Geauga, Salem, Stark, Trumbull and Tuscarawas, as well as the Regional Academic Center in Twinsburg, have open enrollment admission for students who hold a high school diploma, GED or equivalent.

**English Language Proficiency Requirements for International Students:** All international students must provide proof of English language proficiency (unless they meet specific exceptions) by earning a minimum 525 TOEFL score (71 on the Internet-based version), minimum 75 MELAB score, minimum 6.0 IELTS score or minimum 48 PTE score, or by completing the ESL level 112 Intensive Program. For more information on international admission, visit the Office of Global Education's admission website.

**Transfer, Transitioning and Former Students:** For more information about admission criteria for transfer, transitioning and former students, please visit the admissions website.

## Program Learning Outcomes

Graduates of this program will be able to:

1. Understand and communicate to others the nature of scientific investigation and evidence.
2. Understand and communicate to the others the complex interrelationships of the biosphere, atmosphere, hydrosphere and the lithosphere through geologic time.
3. Understand Earth materials and interpret geologic and environmental processes.
4. Synthesize geologic information to understand and solve geologic and environmental problems.
5. Demonstrate critical thinking skills and be able to work as a geologist in the field and in the laboratory.

## University Requirements

All students in a bachelor's degree program at Kent State University must complete the following university requirements for graduation.

**NOTE:** University requirements may be fulfilled in this program by specific course requirements. Please see Program Requirements for details.

Destination Kent State: First Year Experience	1
Course is not required for students with 25 transfer credits, excluding College Credit Plus, or age 21+ at time of admission.	
Diversity Domestic/Global (DIVD/DIVG)	2 courses
Students must successfully complete one domestic and one global course, of which one must be from the Kent Core.	
Experiential Learning Requirement (ELR)	varies
Students must successfully complete one course or approved experience.	
Kent Core (see table below)	36-37
Writing-Intensive Course (WIC)	1 course
Students must earn a minimum C grade in the course.	
Upper-Division Requirement	39 (or 42)
Students must successfully complete 39 upper-division (numbered 30000 to 49999) credit hours to graduate. Students in a B.A. and/or B.S. degree in the College of Arts and Sciences must complete 42 upper-division credit hours.	
Total Credit Hour Requirement	120
Some bachelor's degrees require students to complete more than 120 credit hours.	

## Kent Core Requirements

Kent Core Composition (KCMP)	6
Kent Core Mathematics and Critical Reasoning (KMCR)	3
Kent Core Humanities and Fine Arts (KHUM/KFA) (min one course each)	9
Kent Core Social Sciences (KSS) (must be from two disciplines)	6
Kent Core Basic Sciences (KBS/KLAB) (must include one laboratory)	6-7
Kent Core Additional (KADL)	6
<b>Total Credit Hours:</b>	<b>36-37</b>

## Program Requirements

### Major Requirements

Code	Title	Credit Hours
<b>Major Requirements (courses count in major GPA)</b>		
BSCI 10002 or BSCI 10110	LIFE ON PLANET EARTH (KBS) BIOLOGICAL DIVERSITY (KBS) (KLAB)	3-4
CHEM 10060	GENERAL CHEMISTRY I (KBS) <sup>1</sup>	4
CHEM 10062	GENERAL CHEMISTRY I LABORATORY (KBS) (KLAB)	1
GEOL 11040	HOW THE EARTH WORKS (KBS)	3
GEOL 11041	HOW THE EARTH WORKS LABORATORY (KBS) (KLAB)	1
GEOL 11042	EARTH AND LIFE THROUGH TIME (KBS)	3
GEOL 11043	EARTH AND LIFE THROUGH TIME LABORATORY (KBS) (KLAB)	1
GEOL 22000	DEGREE AND CAREER PATHS IN GEOLOGY (ELR)	1

GEOL 23063	EARTH MATERIALS I	4
GEOL 31070	EARTH MATERIALS II (WIC) <sup>2</sup>	4
GEOL 34061	PRINCIPLES OF PALEONTOLOGY	4
MATH 11010	ALGEBRA FOR CALCULUS (KMCR)	3
MATH 11022	TRIGONOMETRY (KMCR)	3
Geology (GEOL) Upper-Division Electives (30000 or 40000 level) <sup>3,4</sup>		15
<b>Additional Requirements (courses do not count in major GPA)</b>		
UC 10097	DESTINATION KENT STATE: FIRST YEAR EXPERIENCE	1
Foreign Language (see Foreign language College Requirement below)		14-16
College General Requirements (must be from Kent Core Social Sciences) <sup>5</sup>		3
Kent Core Composition		6
Kent Core Humanities and Fine Arts (minimum one course from each)		9
Kent Core Social Sciences (must be from two disciplines)		6
General Electives (total credit hours depends on earning 120 credit hours, including 42 upper-division credit hours)		31
Minimum Total Credit Hours:		120

<sup>1</sup> CHEM 10060 fulfills College General requirements.

<sup>2</sup> A minimum C grade must be earned to fulfill the writing-intensive requirement.

<sup>3</sup> GEOL 41092 is recommended as an upper-division GEOL elective.

<sup>4</sup> The following courses will not satisfy major requirements: GEOL 41073, GEOL 41077 and GEOL 41079.

<sup>5</sup> One additional course taken from the Kent Core Social Sciences courses in the following Arts and Sciences disciplines: Anthropology (ANTH), Geography (GEOG), Criminology and Justice Studies (CRIM), Peace and Conflict Studies (PACS), Political Science (POL), Psychology (PSYC) or Sociology (SOC). The course may not be from the student's major.

<sup>1</sup> All students with prior foreign language experience should take the foreign language placement test to determine the appropriate level at which to start. Some students may begin beyond the Elementary I level and will complete the requirement with fewer credit hours and fewer courses. This may be accomplished by (1) passing a course beyond Elementary I through Intermediate II level; (2) receiving credit through Credit by Exam (CBE), Advanced Placement (AP), International Baccalaureate (IB) or College Level Examination Program (CLEP); or (3) being designated a 'native speaker' of a non-English language (consult with the College of Arts and Sciences Advising Office for additional information). When students complete the requirement with fewer than 14 credit hours and four courses, they will complete remaining credit hours with general electives.

<sup>2</sup> Certain majors, concentrations and minors may require specific languages, limit the languages from which a student may choose or require coursework through Intermediate II. Students who plan to pursue graduate study may need particular language coursework.

## Graduation Requirements

Minimum Major GPA	Minimum Overall GPA
2.000	2.000

## Foreign Language College Requirement

Students pursuing the Bachelor of Arts degree in the College of Arts and Sciences must complete 14-16 credit hours of foreign language.<sup>1</sup>

To complete the requirement, students have the equivalent of Elementary I and II in any language, plus one of the following options:

- Intermediate I and II of the same language <sup>2</sup>
- Elementary I and II of a second language
- Any combination of two courses from the following list:
  - Intermediate I of the same language
  - MCLS 10001 INTRODUCTION TO STRUCTURAL CONCEPTS FOR LANGUAGE STUDENTS
  - MCLS 20091 VARIABLE CONTENT SEMINAR IN GLOBAL LITERACY: CASE STUDIES
  - MCLS 21417 MULTICULTURALISM IN TODAY'S GERMANY (DIVG)
  - MCLS 28404 THE LATIN AMERICAN EXPERIENCE (DIVG)

## Roadmap

This roadmap is a recommended semester-by-semester plan of study for this major. However, courses designated as critical (!) must be completed in the semester listed to ensure a timely graduation.

Semester One		Credits
GEOL 11040	HOW THE EARTH WORKS (KBS)	3
GEOL 11041	HOW THE EARTH WORKS LABORATORY (KBS) (KLAB)	1
MATH 11010	ALGEBRA FOR CALCULUS (KMCR)	3
UC 10097	DESTINATION KENT STATE: FIRST YEAR EXPERIENCE	1
Foreign Language		4
Kent Core Requirement		3
Credit Hours		15
Semester Two		Credits
GEOL 11042	EARTH AND LIFE THROUGH TIME (KBS)	3
GEOL 11043	EARTH AND LIFE THROUGH TIME LABORATORY (KBS) (KLAB)	1
MATH 11022	TRIGONOMETRY (KMCR)	3
Foreign Language		4
Kent Core Requirement		3
Kent Core Requirement		3
Credit Hours		17
Semester Three		Credits
CHEM 10060	GENERAL CHEMISTRY I (KBS)	4
CHEM 10062	GENERAL CHEMISTRY I LABORATORY (KBS) (KLAB)	1
GEOL 22000	DEGREE AND CAREER PATHS IN GEOLOGY (ELR)	1
GEOL 23063	EARTH MATERIALS I	4
Foreign Language		3
Kent Core Requirement		3
Credit Hours		16
Semester Four		Credits
BSCI 10002	LIFE ON PLANET EARTH (KBS)	3
or	or BIOLOGICAL DIVERSITY (KBS) (KLAB)	
BSCI 10110		
GEOL 31070	EARTH MATERIALS II (WIC)	4
Foreign Language		3
Kent Core Requirement		3
General Elective		3
Credit Hours		16
Semester Five		Credits
GEOL 34061	PRINCIPLES OF PALEONTOLOGY	4
Geology (GEOL) Upper-Division Elective (30000 or 40000 level)		3
Kent Core Requirement		3
General Electives		4
Credit Hours		14
Semester Six		Credits
Geology (GEOL) Upper-Division Electives (30000 or 40000 level)		6
General Electives		6
Credit Hours		12
Semester Seven		Credits
Geology (GEOL) Upper-Division Elective (30000 or 40000 level)		3
College General Requirements		3
Kent Core Requirement		3

General Electives	6
Credit Hours	15
Semester Eight	
Geology (GEOL) Upper-Division Elective (30000 or 40000 level)	3
General Electives	12
Credit Hours	15
Minimum Total Credit Hours:	120

## Geology - B.S.

### College of Arts and Sciences

#### Department of Geology

221 McGilvrey Hall

Kent Campus

330-672-2680

geology@kent.edu

www.kent.edu/geology

## Description

The Bachelor of Science degree in Geology is designed for those interested in a professional career in the field. The curriculum focuses on minerals, rocks, landforms, fossils, structural geology, geochemistry and field mapping, among others. Supplemental courses include introductory chemistry, physics, biology and mathematics. Students are also encouraged to specialize in an applied or theoretical area of the science.

The program features a capstone summer field course in the Black Hills of South Dakota.

Geology students may apply early to the M.S. degree in Geology and double count 9 credit hours of graduate courses toward both degree programs. See the Combined Bachelor's/Master's Degree Program policy in the University Catalog for more information.

The Geology major includes the following optional concentration:

- The **Environmental Geology** optional concentration provides students with specialized training for careers in the well-established and growing field of environmental geology, including water resources, resource management and energy resources. The concentration's curriculum focuses on hydrology, hydrogeology, engineering geology and environmental monitoring techniques.

### Fully Offered At:

- Kent Campus

## Admission Requirements

The university affirmatively strives to provide educational opportunities and access to students with varied backgrounds, those with special talents and adult students who graduated from high school three or more years ago.

**Freshman Students on the Kent Campus:** The freshman admission policy on the Kent Campus is selective. Admission decisions are based upon the following: cumulative grade point average, ACT and/or SAT scores, strength of high school college preparatory curriculum and grade trends. The Admissions Office at the Kent Campus may defer the admission of students who do not meet admissions criteria but who demonstrate areas of promise for successful college study. Deferred

applicants may begin their college coursework at one of seven regional campuses of Kent State University. For more information on admissions, including additional requirements for some academic programs, visit the admissions website for new freshmen.

**Freshman Students on the Regional Campuses:** Kent State campuses at Ashtabula, East Liverpool, Geauga, Salem, Stark, Trumbull and Tuscarawas, as well as the Regional Academic Center in Twinsburg, have open enrollment admission for students who hold a high school diploma, GED or equivalent.

**English Language Proficiency Requirements for International Students:** All international students must provide proof of English language proficiency (unless they meet specific exceptions) by earning a minimum 525 TOEFL score (71 on the Internet-based version), minimum 75 MELAB score, minimum 6.0 IELTS score or minimum 48 PTE score, or by completing the ESL level 112 Intensive Program. For more information on international admission, visit the Office of Global Education's admission website.

**Transfer, Transitioning and Former Students:** For more information about admission criteria for transfer, transitioning and former students, please visit the admissions website.

## Program Learning Outcomes

Graduates of this program will be able to:

1. Understand and communicate to others on the nature of scientific investigation and evidence.
2. Understand and communication to others on the complex interrelationships of the biosphere, atmosphere, hydrosphere and the lithosphere through geologic time.
3. Understand Earth materials and interpret geologic and environmental processes.
4. Synthesize geologic information to understand and solve geologic and environmental problems.
5. Demonstrate critical thinking skills.
6. Develop the skills to work as a geologist in the field and in the laboratory.

## University Requirements

All students in a bachelor's degree program at Kent State University must complete the following university requirements for graduation.

**NOTE:** University requirements may be fulfilled in this program by specific course requirements. Please see Program Requirements for details.

Destination Kent State: First Year Experience	1
Course is not required for students with 25 transfer credits, excluding College Credit Plus, or age 21+ at time of admission.	
Diversity Domestic/Global (DIVD/DIVG)	2 courses
Students must successfully complete one domestic and one global course, of which one must be from the Kent Core.	
Experiential Learning Requirement (ELR)	varies
Students must successfully complete one course or approved experience.	
Kent Core (see table below)	36-37
Writing-Intensive Course (WIC)	1 course
Students must earn a minimum C grade in the course.	
Upper-Division Requirement	39 (or 42)

Students must successfully complete 39 upper-division (numbered 30000 to 49999) credit hours to graduate. Students in a B.A. and/or B.S. degree in the College of Arts and Sciences must complete 42 upper-division credit hours.

Total Credit Hour Requirement	120
Some bachelor's degrees require students to complete more than 120 credit hours.	

## Kent Core Requirements

Kent Core Composition (KCMP)	6
Kent Core Mathematics and Critical Reasoning (KMCR)	3
Kent Core Humanities and Fine Arts (KHUM/KFA) (min one course each)	9
Kent Core Social Sciences (KSS) (must be from two disciplines)	6
Kent Core Basic Sciences (KBS/KLAB) (must include one laboratory)	6-7
Kent Core Additional (KADL)	6
<b>Total Credit Hours:</b>	<b>36-37</b>

## Program Requirements

### Major Requirements

Code	Title	Credit Hours
<b>Major Requirements (courses count in major GPA)</b>		
BSCI 10002 or BSCI 10110	LIFE ON PLANET EARTH (KBS) BIOLOGICAL DIVERSITY (KBS) (KLAB)	3-4
CHEM 10060	GENERAL CHEMISTRY I (KBS)	4
CHEM 10062	GENERAL CHEMISTRY I LABORATORY (KBS) (KLAB)	1
GEOL 11040	HOW THE EARTH WORKS (KBS)	3
GEOL 11041	HOW THE EARTH WORKS LABORATORY (KBS) (KLAB)	1
GEOL 11042	EARTH AND LIFE THROUGH TIME (KBS)	3
GEOL 11043	EARTH AND LIFE THROUGH TIME LABORATORY (KBS) (KLAB)	1
GEOL 22000	DEGREE AND CAREER PATHS IN GEOLOGY (ELR)	1
GEOL 23063	EARTH MATERIALS I	4
GEOL 31070	EARTH MATERIALS II (WIC)	4
GEOL 31080	STRUCTURAL GEOLOGY	4
GEOL 34061	PRINCIPLES OF PALEONTOLOGY	4
GEOL 41092	SUMMER FIELD CAMP (ELR)	6
GEOL 42035 or MATH 30011	SCIENTIFIC METHODS IN GEOLOGY BASIC PROBABILITY AND STATISTICS	3
GEOL 44070	SEDIMENTOLOGY AND STRATIGRAPHY	4
MATH 12002	ANALYTIC GEOMETRY AND CALCULUS I (KMCR)	5
PHY 13001	GENERAL COLLEGE PHYSICS I (KBS)	4
PHY 13021	GENERAL COLLEGE PHYSICS LABORATORY I (KBS) (KLAB)	1
<b>Additional Requirements (courses do not count in major GPA)</b>		
UC 10097	DESTINATION KENT STATE: FIRST YEAR EXPERIENCE	1
Foreign Language (see Foreign Language College Requirement below)		8
Kent Core Composition		6
Kent Core Humanities and Fine Arts (minimum one course from each)		9
Kent Core Social Sciences (must be from two disciplines)		6

General Electives (total credit hours depends on earning 120 credit hours, including 42 upper-division credit hours) 13-14

**Additional Requirements or Concentration**

Choose from the following: 20-21

Additional Requirements for Students Not Declaring a Concentration

Environmental Geology Concentration

Minimum Total Credit Hours: 120

## Additional Requirements for Students Not Declaring a Concentration

Code	Title	Credit Hours
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**Major Requirements (courses count in major GPA)**

Geology (GEOL) Upper-Division Electives (30000 or 40000 level) <sup>1</sup> 15-16

Science Electives, choose from the following: <sup>2</sup> 4-5

CHEM 10061 & CHEM 10063	GENERAL CHEMISTRY II (KBS) and GENERAL CHEMISTRY II LABORATORY (KBS) (KLAB)	
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GEOG 49070	GEOGRAPHIC INFORMATION SCIENCE	
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PHY 13002 & PHY 13022	GENERAL COLLEGE PHYSICS II (KBS) and GENERAL COLLEGE PHYSICS LABORATORY II (KBS) (KLAB)	
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Minimum Total Credit Hours: 20

<sup>1</sup> The following courses may not count toward the elective requirement: GEOL 41073, GEOL 41077 and GEOL 41079.

<sup>2</sup> Students who intend to pursue graduate studies in geology are recommended to complete both science lectures and labs courses: CHEM 10061, CHEM 10063, PHY 13002, PHY 13022.

## Environmental Geology Concentration Requirements

Code	Title	Credit Hours
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**Concentration Requirements (courses count in major GPA)**

CHEM 10061	GENERAL CHEMISTRY II (KBS)	4
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CHEM 10063	GENERAL CHEMISTRY II LABORATORY (KBS) (KLAB)	1
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GEOL 32066	GEOMORPHOLOGY	4
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GEOL 42069	HYDROGEOCHEMISTRY	3
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or GEOL 43040	PRINCIPLES OF GEOCHEMISTRY	
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or GEOL 43042	ENVIRONMENTAL GEOCHEMISTRY	
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Environmental Geology Concentration Electives, choose from the following: 9-10

GEOL 42030	REMOTE SENSING	
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GEOL 42065	WATERSHED HYDROLOGY	
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GEOL 42066	PHYSICAL HYDROGEOLOGY	
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GEOL 42068	CONTAMINANT HYDROLOGY AND HYDROGEOLOGY	
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GEOL 42069	HYDROGEOCHEMISTRY	
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GEOL 42074	ENVIRONMENTAL CORE AND WELL LOGGING	
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GEOL 42078	ENGINEERING GEOLOGY	
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GEOL 43040	PRINCIPLES OF GEOCHEMISTRY	
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GEOL 43042	ENVIRONMENTAL GEOCHEMISTRY	
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GEOL 43043	ENVIRONMENTAL MINERALOGY	
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GEOL 43044	ENVIRONMENTAL ISOTOPES	
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Minimum Total Credit Hours: 21

## Graduation Requirements

Minimum Major GPA	Minimum Overall GPA
2.000	2.000

### Foreign Language College Requirement

- Students pursuing the Bachelor of Science degree in the College of Arts and Sciences must complete 8 credit hours of foreign language.<sup>1</sup>
- Minimum Elementary I and II of the same language

<sup>1</sup> All students with prior foreign language experience should take the foreign language placement test to determine the appropriate level at which to start. Some students may begin their university foreign language experience beyond the Elementary I level and will complete the requirement with fewer credit hours and fewer courses. This may be accomplished by: (1) passing a course beyond the Elementary I through Intermediate II level or (2) receiving credit through Credit by Exam (CBE), the College Level Examination Program (CLEP), the Advanced Placement (AP) exam or credit through the International Baccalaureate (IB) program; or (3) being designated a 'native speaker' of a non-English language (consult with the College of Arts and Sciences Advising Office for additional information). When students complete the requirement with fewer than 8 credit hours and two courses, they will complete the remaining hours with general electives.



## Roadmaps

- Geology Major (no concentration)
- Environmental Geology Concentration

### Geology Major (no concentration)

This roadmap is a recommended semester-by-semester plan of study for this major. However, courses designated as critical (!) must be completed in the semester listed to ensure a timely graduation.

Semester One		Credits
GEOL 11040	HOW THE EARTH WORKS (KBS)	3
GEOL 11041	HOW THE EARTH WORKS LABORATORY (KBS) (KLAB)	1
UC 10097	DESTINATION KENT STATE: FIRST YEAR EXPERIENCE	1
Foreign Language		4
Kent Core Requirement		3
Kent Core Requirement		3
Credit Hours		15
Semester Two		Credits
BSCI 10002	LIFE ON PLANET EARTH (KBS)	3
or	or BIOLOGICAL DIVERSITY (KBS) (KLAB)	
BSCI 10110		
GEOL 11042	EARTH AND LIFE THROUGH TIME (KBS)	3
GEOL 11043	EARTH AND LIFE THROUGH TIME LABORATORY (KBS) (KLAB)	1
Foreign Language		4
Kent Core Requirement		3
Credit Hours		14
Semester Three		Credits
CHEM 10060	GENERAL CHEMISTRY I (KBS)	4
CHEM 10062	GENERAL CHEMISTRY I LABORATORY (KBS) (KLAB)	1
GEOL 22000	DEGREE AND CAREER PATHS IN GEOLOGY (ELR)	1
GEOL 23063	EARTH MATERIALS I	4
Kent Core Requirement		3
Kent Core Requirement		3
Credit Hours		16
Semester Four		Credits
GEOL 31070	EARTH MATERIALS II (WIC)	4
GEOL 31080	STRUCTURAL GEOLOGY	4
PHY 13001	GENERAL COLLEGE PHYSICS I (KBS)	4
PHY 13021	GENERAL COLLEGE PHYSICS LABORATORY I (KBS) (KLAB)	1
Credit Hours		13
Semester Five		Credits
GEOL 34061	PRINCIPLES OF PALEONTOLOGY	4
GEOL 42035	SCIENTIFIC METHODS IN GEOLOGY	3
or	or BASIC PROBABILITY AND STATISTICS	
MATH 30011		
MATH 12002	ANALYTIC GEOMETRY AND CALCULUS I (KMCR)	5
Kent Core Requirement		3
Credit Hours		15
Semester Six		Credits
Choose from the following:		4-5
CHEM 10061 GENERAL CHEMISTRY II (KBS)		
& CHEM 10062 and GENERAL CHEMISTRY II LABORATORY (KBS) (KLAB)		

PHY 13002 GENERAL COLLEGE PHYSICS II (KBS)		
& PHY 13022 and GENERAL COLLEGE PHYSICS LABORATORY II (KBS) (KLAB)		
GEOG 49070 GEOGRAPHIC INFORMATION SCIENCE		
Geology (GEOL) Upper-Division Courses (30000 or 40000 level)		3
Kent Core Requirement		3
General Electives		4
Credit Hours		15
Third Summer Term		Credits
GEOL 41092	SUMMER FIELD CAMP (ELR)	6
Credit Hours		6
Semester Seven		Credits
Geology (GEOL) Upper-Division Courses (30000 or 40000 level)		6
General Electives		8
Credit Hours		14
Semester Eight		Credits
GEOL 44070	SEDIMENTOLOGY AND STRATIGRAPHY	4
Geology (GEOL) Upper-Division Courses (30000 or 40000 level)		6
General Electives		2
Credit Hours		12
Minimum Total Credit Hours:		120

### Environmental Geology Concentration

This roadmap is a recommended semester-by-semester plan of study for this major. However, courses designated as critical (!) must be completed in the semester listed to ensure a timely graduation.

Semester One		Credits
GEOL 11040	HOW THE EARTH WORKS (KBS)	3
GEOL 11041	HOW THE EARTH WORKS LABORATORY (KBS) (KLAB)	1
UC 10097	DESTINATION KENT STATE: FIRST YEAR EXPERIENCE	1
Foreign Language		4
Kent Core Requirement		3
Kent Core Requirement		3
Credit Hours		15
Semester Two		Credits
BSCI 10002	LIFE ON PLANET EARTH (KBS)	3-4
or	or BIOLOGICAL DIVERSITY (KBS) (KLAB)	
BSCI 10110		
GEOL 11042	EARTH AND LIFE THROUGH TIME (KBS)	3
GEOL 11043	EARTH AND LIFE THROUGH TIME LABORATORY (KBS) (KLAB)	1
Foreign Language		4
Kent Core Requirement		3
Credit Hours		14
Semester Three		Credits
CHEM 10060	GENERAL CHEMISTRY I (KBS)	4
CHEM 10062	GENERAL CHEMISTRY I LABORATORY (KBS) (KLAB)	1
GEOL 22000	DEGREE AND CAREER PATHS IN GEOLOGY (ELR)	1
GEOL 23063	EARTH MATERIALS I	4
Kent Core Requirement		3
Kent Core Requirement		3
Credit Hours		16
Semester Four		Credits
CHEM 10061	GENERAL CHEMISTRY II (KBS)	4

CHEM 10063	GENERAL CHEMISTRY II LABORATORY (KBS) (KLAB)	1
GEOL 31070	EARTH MATERIALS II (WIC)	4
MATH 12002	ANALYTIC GEOMETRY AND CALCULUS I (KMCR)	5
Credit Hours		14

**Semester Five**

GEOL 32066	GEOMORPHOLOGY	4
GEOL 34061	PRINCIPLES OF PALEONTOLOGY	4
GEOL 42035	SCIENTIFIC METHODS IN GEOLOGY or or BASIC PROBABILITY AND STATISTICS	3
MATH 30011		
Kent Core Requirement		3
Credit Hours		14

**Semester Six**

GEOL 31080	STRUCTURAL GEOLOGY	4
GEOL 42069	HYDROGEOCHEMISTRY or or PRINCIPLES OF GEOCHEMISTRY	3
GEOL 43040	or ENVIRONMENTAL GEOCHEMISTRY	
GEOL 43042		
PHY 13001	GENERAL COLLEGE PHYSICS I (KBS)	4
PHY 13021	GENERAL COLLEGE PHYSICS LABORATORY I (KBS) (KLAB)	1
Kent Core Requirement		3
Credit Hours		15

**Third Summer Term**

GEOL 41092	SUMMER FIELD CAMP (ELR)	6
Credit Hours		6

**Semester Seven**

Environmental Geology Concentration Electives		6
General Electives		7
Credit Hours		13

**Semester Eight**

GEOL 44070	SEDIMENTOLOGY AND STRATIGRAPHY	4
Environmental Geology Concentration Electives		3-4
General Electives		6
Credit Hours		13
Minimum Total Credit Hours:		120

## Geology - M.S.

**College of Arts and Sciences**

Department of Geology  
221 McGilvrey Hall  
Kent Campus  
330-672-2680  
geology@kent.edu  
www.kent.edu/geology

## Description

The Master of Science degree in Geology provides qualified students the opportunity for advanced study in a wide variety of geologic fields. Focus areas include environmental research (water, surface and subsurface processes; geohazards; and natural resources), as well as evolution of earth's systems research (climate change, paleoecology and evolution, crustal processes).

## Fully Offered At:

- Kent Campus

## Admission Requirements

- Bachelor's degree from an accredited college or university for unconditional admission
- Minimum 3.000 undergraduate GPA on a 4.000 point scale for unconditional admission
- Official transcript(s)
- Goal statement
- Three letters of recommendation
- English language proficiency - all international students must provide proof of English language proficiency (unless they meet specific exceptions) by earning one of the following:
  - Minimum 550 TOEFL PBT score (paper-based version)
  - Minimum 79 TOEFL IBT score (Internet-based version)
  - Minimum 77 MELAB score
  - Minimum 6.5 IELTS score
  - Minimum 58 PTE score
  - Minimum 110 Duolingo English Test score

For more information about graduate admissions, please visit the Graduate Studies admission website. For more information on international admission, visit the Office of Global Education's admission website.

## Program Learning Outcomes

Graduates of this program will be able to:

1. Show in-depth comprehension of several areas, including both basic and applied aspects of geology/earth sciences.
2. Formulate testable scientific hypotheses and carry out independent research using appropriate field, experimental, analytical and/or computational methods.
3. Describe, synthesize and interpret the results of a scientific investigation, and understand its broader applications.

## Program Requirements

### Major Requirements

Code	Title	Credit Hours
<b>Major Requirements</b>		
GEOL 60084	GEOLOGY GRADUATE STUDENT ORIENTATION	1
GEOL 60199	THESIS I <sup>1</sup>	6
Additional Program Requirements <sup>2</sup>		25
Minimum Total Credit Hours:		32

<sup>1</sup> Upon the completion of the thesis proposal defense, the student registers for 6 credit hours of GEOL 60199. Thereafter, the student must be continuously registered in GEOL 60299 until all degree requirements are met.

<sup>2</sup> Students must complete 9 credit hours at the 60000-level.

## Graduation Requirements

- Minimum 3.000 overall GPA
- Participation in required orientation and colloquia
- Accepted and publicly defended thesis that incorporates the results of a program of original geologic research
- All students will have a fundamental knowledge and understanding of Earth Materials and a field experience by the end of the second year in the program. This will be fulfilled by:
  1. a lecture and lab course in Earth Materials, related to mineralogy and/or petrology, and
  2. a three-to-five week Field camp or field experience, as determined by the graduate coordinator.

## Geology - Minor

### College of Arts and Sciences

Department of Geology  
221 McGilvrey Hall  
Kent Campus  
330-672-2680  
geology@kent.edu  
www.kent.edu/geology

## Description

The Geology minor is for students who have a primary interest in a field that can be complemented by a basic knowledge of geological concepts. The minor can be of particular benefit to students who have a major or interest in the following: anthropology, architecture, business, geography, journalism, political science, environmental law, recreation and park management and other liberal arts or science fields.

### Fully Offered At:

- Kent Campus
- Stark Campus

## Admission Requirements

Admission to a minor is open to students declared in a bachelor's degree, the A.A.B. or A.A.S. degree or the A.T.S. degree (not Individualized Program major). Students declared only in the A.A. or A.S. degree or the A.T.S. degree in Individualized Program may not declare a minor. Students may not pursue a minor and a major in the same discipline.

## Minor Requirements

Code	Title	Credit Hours
<b>Minor Requirements</b>		
Minor Electives, choose from the following:		3
GEOL 11040	HOW THE EARTH WORKS (KBS)	
GEOL 11042	EARTH AND LIFE THROUGH TIME (KBS)	
GEOL 21062	ENVIRONMENTAL EARTH SCIENCE (KBS)	
GEOL 21080	ALL ABOUT THE OCEANS (KBS)	
Geology (GEOL) electives, chosen from courses not listed above <sup>1,2</sup>		12
Minimum Total Credit Hours:		15

- <sup>1</sup> Students must meet prerequisites for all courses chosen as Geology (GEOL) electives.
- <sup>2</sup> Maximum 3 credit hours of GEOL 40096 may be applied to the 12 elective credit hours.

## Graduation Requirements

Minimum Minor GPA	Minimum Overall GPA
2.000	2.000

- Students must complete at least two upper-division (30000 or 40000 level) courses in the minor at Kent State on a graded basis (A-F).
- Courses with S/U grade may not be applied to the minor.
- Minimum 6 credit hours in the minor must be upper-division coursework (30000 and 40000 level).
- Minimum 6 credit hours in the minor must be outside of the course requirements for any major or other minor the student is pursuing.
- Minimum 50 percent of the total credit hours for the minor must be taken at Kent State (in residence).

## Paleontology - Minor

### College of Arts and Sciences

Department of Geology  
221 McGilvrey Hall  
Kent Campus  
330-672-2680  
geology@kent.edu  
www.kent.edu/geology

## Description

The Paleontology minor prepares students to integrate concepts in geology and biology to address issues in conservation paleobiology, historical and current causes of extinctions, and evolutionary patterns on geological scales. Scientific knowledge about Paleontology is used to inform different areas of formal study such as biological sciences, conservation biology, anthropology, environmental studies, geography, and museum and natural history education. Students will gain broad knowledge of paleobiology and the interplay between the geosphere and the biosphere over geologic time as well as in the Anthropocene. Competencies focus on evolutionary processes over geologic time applied to the interpretation of modern and historic floras and faunas and communication about these issues to policymakers and the public.

### Fully Offered At:

- Kent Campus
- Stark Campus

## Admission Requirements

Admission to a minor is open to students declared in a bachelor's degree, the A.A.B. or A.A.S. degree or the A.T.S. degree (not Individualized Program major). Students declared only in the A.A. or A.S. degree or the A.T.S. degree in Individualized Program may not declare a minor. Students may not pursue a minor and a major in the same discipline.

To declare the Paleontology minor, students must have a minimum 2.000 overall Kent State University GPA. No Kent State University GPA is

required if the student is a first-semester freshman or transfer student admitted in good standing.

## Minor Requirements

Code	Title	Credit Hours
<b>Minor Requirement</b>		
GEOL 11042	EARTH AND LIFE THROUGH TIME (KBS)	3
GEOL 11043	EARTH AND LIFE THROUGH TIME LABORATORY (KBS) (KLAB)	1
GEOL 34061	PRINCIPLES OF PALEONTOLOGY	4
Minor Electives, choose from the following:		6-7
ANTH 18630	HUMAN EVOLUTION (KBS)	
ANTH 48810	HUMAN PALEONTOLOGY	
BSCI 30050	HUMAN GENETICS	
BSCI 30275	LOCAL FLORA (ELR)	
BSCI 40163	EVOLUTION	
BSCI 40556	VERTEBRATE ZOOLOGY	
GEOL 41079	ALL ABOUT DINOSAURS	
GEOL 41085	MASS EXTINCTIONS: CAUSES AND CONSEQUENCES	
GEOL 44070	SEDIMENTOLOGY AND STRATIGRAPHY	
GEOL 44072	MARINE PROCESSES	
GEOL 44074	PALEOCEANOGRAPHY	
Minimum Total Credit Hours:		14

## Graduation Requirements

Minimum Minor GPA	Minimum Overall GPA
2.000	2.000

- Students must complete at least two upper-division (30000 or 40000 level) courses in the minor at Kent State on a graded basis (A-F).
- Minimum 6 credit hours in the minor must be upper-division coursework (30000 and 40000 level).
- Minimum 6 credit hours in the minor must be outside of the course requirements for any major or other minor the student is pursuing.
- Minimum 50 percent of the total credit hours for the minor must be taken at Kent State (in residence).

## Department of History

### College of Arts and Sciences

Department of History  
305 Bowman Hall  
Kent Campus  
330-672-2882  
history@kent.edu  
www.kent.edu/history

## Undergraduate Programs

- History - B.A.

## Minors

- History

## Graduate Programs

- History - M.A.
- History - Ph.D.

## Department of History Faculty

- Adams, Kevin J. (2006), Associate Professor & Interim Chair, Ph.D., University of California, Berkeley, 2004
- Bindas, Kenneth J. (1995), Professor, Ph.D., University of Toledo, 1988
- Crawford, Matthew J. (2009), Associate Professor, Ph.D., University of California, San Diego, 2009
- Diacon, Todd A. (2012), Professor and President, Ph.D., University of Wisconsin, Madison, 1987
- Grahn, Lance R. (2015), Professor, Ph.D., Duke University, 1986
- Gruenwald, Kim M. (1995), Associate Professor, Ph.D., University of Colorado, Boulder, 1994
- Hartline, Todd A. (1992), Assistant Professor, Ph.D., Kent State University, 2006
- Hayashi, Brian M. (2016), Professor, Ph.D., University of California, Los Angeles, 1990
- Heaphy, Leslie A. (1995), Associate Professor, Ph.D., University of Toledo, 1995
- Heiss, Mary A. (1992), Associate Professor, Ph.D., The Ohio State University, 1991
- Hudson, Leonne M. (1983), Associate Professor, Ph.D., Kent State University, 1990
- Keefer, Bradley S. (1987), Associate Professor, Ph.D., Kent State University, 2006
- Li, Hongshan (1993), Professor, Ph.D., University of Missouri, Columbia, 1992
- Menning, Ralph R. (2006), Assistant Professor
- Parsons, Elaine (2017), Professor, Ph.D., Johns Hopkins University, 2000
- Scarnecchia, Timothy L. (2007), Associate Professor, Ph.D., University of Michigan, 1994
- Seelye, James E. (2010), Assistant Professor, Ph.D., University of Toledo, 2010
- Sergi, Molly M. (1991), Professor, Ph.D., Kent State University, 2015
- Smith, Elizabeth M. (2001), Associate Professor, Ph.D., Rutgers, The State University of New Jersey, 2001
- Starkey, Lindsay J. (2012), Assistant Professor, Ph.D., University of Wisconsin, Madison, 2012
- Steigmann-Gall, Richard A. (2000), Associate Professor, Ph.D., University of Toronto, 1999
- Strate, Shane (2013), Associate Professor, Ph.D., University of Wisconsin, Madison, 2009
- Thyret, Isolde R. (1994), Associate Professor, Ph.D., University of Washington, 1992
- Wamsley, Esther S. (2005), Assistant Professor, Ph.D., The Ohio State University, 1998

## History (HIST)

### HIST 11050 WORLD HISTORY: ANCIENT AND MEDIEVAL (DIVG) (KHUM) 3 Credit Hours

World history from early human societies through the mid-17th century.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Diversity Global, Kent Core Humanities, TAG History, Transfer Module Humanities

### HIST 11051 WORLD HISTORY: MODERN (DIVG) (KHUM) 3 Credit Hours

World history from mid-17th century to the present.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Diversity Global, Kent Core Humanities, TAG History, Transfer Module Humanities

### HIST 12070 EARLY AMERICA: FROM PRE-COLONIZATION TO CIVIL WAR AND RECONSTRUCTION (DIVD) (KHUM) 3 Credit Hours

A survey of United States history through 1877.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Diversity Domestic, Kent Core Humanities, TAG History, Transfer Module Humanities

### HIST 12071 MODERN AMERICA: FROM INDUSTRIALIZATION TO GLOBALIZATION (DIVD) (KHUM) 3 Credit Hours

A survey of United States history since 1877.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Diversity Domestic, Kent Core Humanities, TAG History, Transfer Module Humanities

### HIST 31020 POLIS TO METROPOLIS: HISTORY OF THE EUROPEAN CITY 3 Credit Hours

This course examines urban identities in Europe from antiquity to the present including Greek and Roman cities; medieval cities, city leagues and city law; early modern planned communities, court residences, and commercial metropolises; eighteenth- and nineteenth-century resort towns, nineteenth-century capital cities and industrial cities; the devastation of the World Wars and post-war reconstruction. The course will examine cities as 'windows' into the societies they serve; the fortunes and misfortunes of cities will be treated as mirrors of regional economic, political, and social trends. The thematic focus of the course will be on the political 'message' encoded in architecture, design and layout and the course will interpret the outward face of cities as an expression of political identity, power, and even civic virtù. This course will be offered primarily at the Stark campus.

**Prerequisite:** Sophomore standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

### HIST 31022 THE GREAT POWERS IN WAR AND PEACE, 1792-1914 3 Credit Hours

This course focuses on the nineteenth-century origins of present-day international problems - from risks of unilateralism to the debt crisis of developing countries to the nationalist tendencies in the Balkans to the question of whether a united Germany is compatible with the European equilibrium. Second, this course looks at how nineteenth-century statecraft dealt with issues that still clutter the headlines today such as peacemaking and peacekeeping, the erosion of treaties, alliances among unequal partners, and crisis management. Third, the course will point to the importance of global linkages (i.e. how events in one area of the world were linked to developments in another and how the Balkans, the Middle East, Africa, and East Asia became flashpoints in the foreign relations of Great Powers. This course will be offered primarily at the Stark campus.

**Prerequisite:** Sophomore standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

### HIST 31024 WORLD WAR II 3 Credit Hours

Survey of one of the greatest political and military events in history, focusing especially on causes, major personalities and chief political, ideological, moral, scientific and diplomatic aspects.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

### HIST 31027 HISTORY OF ENGLAND TO 1688 3 Credit Hours

Survey of medieval and early modern England. Topics include Norman Conquest, medieval culture and society, Reformation, Age of Elizabeth, English Revolution.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

### HIST 31028 ENGLAND SINCE 1688 3 Credit Hours

Survey of national development from the Glorious Revolution through the Second World War, with special attention to leaders, prominent individuals and problems of change.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

### HIST 31030 NATO: THE ENDURING ALLIANCE 3 Credit Hours

Examination of the historical and contemporary roles of the North Atlantic Treaty Organization.

**Prerequisite:** Junior standing; or special approval of instructor.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

### HIST 31031 THE PROTESTANT AND CATHOLIC REFORMATIONS 3 Credit Hours

Comprehensive course dealing with the religious, political, economic and social change accompanying the religious upheavals of the 16th century.

**Prerequisite:** Junior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter



**HIST 31032 SEVENTEENTH-CENTURY EUROPE 3 Credit Hours**

This course will analyze those political, economic, social, religious and intellectual factors leading to economic crisis and civil wars in Europe.

**Prerequisite:** Junior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HIST 31033 WITCHES AND EUROPEAN HISTORY, 1500-1800 3 Credit Hours**

This course explores fifteenth- through seventeenth-century European witch-hunts and their decline in the eighteenth century through lecture and class discussions of both primary and secondary sources. The course has four parts. The first investigates the development of notions of diabolical witchcraft from the ancient world, while Part two examines the intellectual, gender, religious, social and legal backgrounds that helped cause witch-hunts. The final sections explore the dynamics of witchcraft trials. The final section explores the decline of witchcraft.

**Prerequisite:** Sophomore standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HIST 31035 THE GLOBAL COLD WAR 3 Credit Hours**

Explores the Cold War through a global lens. Includes political, diplomatic, cultural, and social perspectives.

**Prerequisite:** Junior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HIST 31036 THE TWENTIETH CENTURY WORLD 3 Credit Hours**

This course explores the key political, cultural, social, and economic events that defined and shaped the twentieth century. Topics to be addressed will include imperialism, revolution and war, nationalism and decolonization, and globalization.

**Prerequisite:** Sophomore standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HIST 31040 AMERICAN HISTORY THROUGH POPULAR MUSIC 3 Credit Hours**

Allows students to develop an understanding of the interconnection between the rise of popular music in the period after 1865 to the social, political, and technological changes that this period witnessed and how this helps to understand the meaning and significance of cultural identity in modern American history.

**Prerequisite:** Sophomore standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HIST 31041 SPORT HISTORY IN THE UNITED STATES 3 Credit Hours**

This course will examine and interpret American sports from the colonial era to the present with particular attention to the role of sports in American life and how changes in American life have affected sports. The course also offers an exploration of American social and cultural history with an emphasis on issues such as race, class, gender, foreign policy, nationalism, religion, economics, industrialization, immigration and urbanization as they relate to sports. It is not a course of sports trivia. The main goal of the course is to use sports as a way to better understand American history and American culture. This course will be offered primarily at the Stark campus.

**Prerequisite:** Sophomore standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HIST 31045 A HISTORY OF CRIME IN THE UNITED STATES 3 Credit Hours**

This course will explore the history of 'living outside the law' in the nineteenth and twentieth centuries. We will read biographical and autobiographical treatments of and monographs about men and women who committed crimes in these centuries and use them as a lens through which to view the changing experiences, constraints, and self-understandings of people who committed crimes in United States history. Some sections of this course may be offered as part of the Inside Out Program in which the course will take place in a nearby prison or jail and will include students who are incarcerated.

**Prerequisite:** Sophomore standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HIST 31050 HISTORY AND SOCIETY OF MODERN GREECE 3 Credit Hours**

Study of modern Greece concentrating on political, economic, cultural and societal developments since 1821.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HIST 31052 HISTORY OF MODERN FRANCE 3 Credit Hours**

Survey of French history from 1815 to the present. Topics include industrialization, republicanism and revolution, the experience of war and defeat, empire and decolonization.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HIST 31053 MODERN EUROPE, 1815 TO PRESENT 3 Credit Hours**

Covers the political, social, and cultural history of Europe from the peace at the end of the Napoleonic wars to the present.

**Prerequisite:** Sophomore standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HIST 31055 POLITICS, CULTURE AND SOCIETY OF 20TH-CENTURY EUROPE 3 Credit Hours**

This course explores the political, social, cultural and other factors that have marked the path of European history in the last century, from the origins of World War I to the end of the Cold War. The course explores not only the origins and consequences of warfare, but also the ways in which everyday life was transformed in this turbulent era. This course covers the era of 'Great Wars,' the 'economic miracle' after the war, the challenges of the Cold War, generational rebellion, and the formation of the European Union with special attention to the political, social and cultural transformations associated with these developments. The thematic anchors of the first half of the course are 'Total War' and 'Rebellion against Positivism,' while the thematic anchors of the second half of the course are 'Rebirth' and 'The Two Europes.'

**Prerequisite:** Sophomore standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HIST 31056 EUROPE IN THE RENAISSANCE 3 Credit Hours**

Analysis of the various factors leading Europe from a rural, feudal, ecclesiastical society to one characterized by urbanism, trade, secularism and the state.

**Prerequisite:** Junior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HIST 31061 HISTORY OF OHIO 3 Credit Hours**

This course explores key events and institutions shaping the geographic region that became Ohio from prehistory to present day with an emphasis is on social, cultural, political, and the economic history of the region. Topics include the historical significance of Ohio's geography, the role and contributions of Native American peoples, the transition to statehood, and modern economic and political developments.

**Prerequisite:** Sophomore standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HIST 31071 U.S. FOREIGN RELATIONS THROUGH 1898 3 Credit Hours**

Explores the foundational period of U.S. foreign relations. Includes consideration of the roots and principles of U.S. foreign policy, continental consolidation, and U.S. incursions in the Western Hemisphere.

**Prerequisite:** Junior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HIST 31072 U.S. FOREIGN RELATIONS, 1898-1945 3 Credit Hours**

Explores the evolving U.S. world role from the Spanish-American War through World War II. Includes consideration of the expanding U.S. interest in Latin America, Asia, and elsewhere as well as the liberal international vision that impelled such interest.

**Prerequisite:** Junior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HIST 31073 U.S. FOREIGN RELATIONS SINCE 1945 3 Credit Hours**

Explores the rise and fall of U.S. global hegemony since World War II. Includes consideration of the Cold War, decolonization, détente, and the post-Cold War era.

**Prerequisite:** Junior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HIST 31074 HISTORY OF ESPIONAGE: FROM JOSHUA TO EDWARD SNOWDEN 3 Credit Hours**

This course traces the history of intelligence gathering from the ancient world through the 21st century. The study of spy-networks provides students with an understanding of emerging intelligence systems, including both examples of espionage and counter-intelligence. The course assesses the cultural and political impact of intelligence gathering on society at large and discusses ethical issues such as the balance between privacy and security. While most of the focus is on the United States, the lectures and discussions will also cover Britain, Germany, Japan, China, Israel, and Russia, with considerable attention to World Wars I and II, and the Cold War.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HIST 31075 HISTORY OF WOMEN IN THE UNITED STATES 3 Credit Hours**

(Cross-listed with WMST 30100) An exploration of the political, economic, social, intellectual and cultural forces that have shaped women's lives, women's thought, perceptions of womanhood and feminism, from 1607 to the present in what is now the United States.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HIST 31077 HISTORY OF SEXUALITY IN THE UNITED STATES 3 Credit Hours**

This course explores how people living in the United States learned about sex. Together, Americans in all time periods have developed sexual cultures and norms, accommodated themselves to, ignored, creatively interpreted or defied, or changed these cultures and norms over time. We will focus on how sexual cultures and norms were taught and enforced, and how different types of institutions and professionals (religious leaders, mental health professionals, law enforcement officers, journalists and popular cultural figures), played roles in this process.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HIST 31080 AFRICAN AMERICAN HISTORY: SLAVERY TO FREEDOM 3 Credit Hours**

(Cross-listed with PAS 33101) Survey of African American history from the colonial period to 1877. Course provides a general knowledge of the social, political and cultural history of African Americans from colonial times to the end of the Reconstruction.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HIST 31082 HISTORY OF THE CIVIL RIGHTS AND BLACK POWER MOVEMENTS IN THE UNITED STATES 3 Credit Hours**

This course examines Civil Rights and Black Power movements in the twentieth century and addresses a series of questions still relevant today: How do social movements begin? What leadership styles and protest tactics and strategies work? How do social movements evolve over time? This course also explores the history of the Civil Rights and Black Power movements at Kent State University. Working in the University Archives, students conduct research in original source materials and develop a collaborative digital history project based on their research.

**Prerequisite:** Sophomore standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HIST 31083 THE HISTORY OF WHITENESS IN THE UNITED STATES 3 Credit Hours**

This course will survey the full sweep of the history of the United States to interrogate what exactly 'whiteness' was and is and what it has meant throughout the American past. To do so, this course will examine closely a series of crucial turning points in the history of whiteness in the United States: 1) the colonial era and the creation of 'whiteness' as an identity; and 2) the evolution of 'whiteness' during the long nineteenth and twentieth centuries.

**Prerequisite:** Sophomore standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HIST 31087 SECTIONAL CONFLICT AND CIVIL WAR 3 Credit Hours**

Differences within the United States, including the controversy over slavery; the Civil War in all its aspects.

**Prerequisite:** Junior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HIST 31100 RECONSTRUCTION AND THE LATER SOUTH 3 Credit Hours**

Controversy during and after the Civil War as to racial and sectional relationships; the post-Reconstruction compromises and their undoing.

**Prerequisite:** Junior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HIST 31101 WAR AND SOCIETY IN THE UNITED STATES FROM 1607 THROUGH 1865 3 Credit Hours**

An examination of the impact of conflict and the military upon the society, culture, economy and diplomacy of the United States. Topics include colonial Indian wars, the Revolutionary War, the War of 1812, the Mexican-American War and the Civil War.

**Prerequisite:** HIST 12070.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HIST 31102 WAR AND SOCIETY IN THE UNITED STATES FROM 1865 TO THE PRESENT 3 Credit Hours**

An examination of the impact of conflict and the military on the society, culture, economy and diplomacy of the United States. Topics include the frontier Army, the Spanish-American War and empire in the Pacific, the two world wars, the Cold War and the War on Terror.

**Prerequisite:** HIST 12071.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HIST 31104 MIGRATIONS TO AMERICA, 1607 TO PRESENT 3 Credit Hours**

Examines the coming together of people from five continents to the United States and provides an overview of shifting patterns of migration both coerced and free to the United States. Starting in the colonial era, when slaves and servants typified the migration to America, this course then follows the migrations of pre-industrial, industrial, and post-industrial immigrants, their reception by American institutions and natives, and their efforts to construct communities in a new country.

**Prerequisite:** Junior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HIST 31106 PROGRESSIVE AMERICA: THE UNITED STATES, 1896-1919 3 Credit Hours**

Major political, economic, social, cultural and diplomatic events from the crisis of the 1890s through the first World War.

**Prerequisite:** Junior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HIST 31107 NEW ERA THROUGH WORLD WAR: THE UNITED STATES, 1920-1945 3 Credit Hours**

Major political, economic, social, cultural and diplomatic events from the new era of the 1920s through the second World War.

**Prerequisite:** Junior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HIST 31108 RECENT AMERICA: THE UNITED STATES, 1945-PRESENT 3 Credit Hours**

Examines everyday life and culture, assesses the degree to which presidents and their administrations are the reflections of their constituencies, and evaluates the significant events and themes of U.S. history since 1945.

**Prerequisite:** Junior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HIST 31112 CHINESE CIVILIZATION 3 Credit Hours**

General survey of evolution of Chinese civilization from the Bronze Age to the rise of communism.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HIST 31113 HISTORY OF JAPAN 3 Credit Hours**

General survey of the development of Japan from a loose confederation of clans to a modern industrial state.

**Prerequisite:** Junior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HIST 31114 TRADITION AND REVOLUTION IN SOUTHEAST ASIA 3 Credit Hours**

Focusing on Southeast Asia, this course is organized chronologically around three broad periods: traditional states and societies (to 1800); colonial transformations and indigenous responses (1800-1945); and the emergence of modern nations (since 1945). Within these broad time frames, the course will explore several themes, including the origins of indigenous states; the impact of colonial domination; responses to colonial rule; and the nature of post-colonial societies and political systems. Given the size and diversity of the region, the course will concentrate on four nation-states: Burma, Thailand, the Philippines, and Indonesia.

**Prerequisite:** Junior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HIST 31115 INDIA SINCE 1526 3 Credit Hours**

Presents a broad introduction to the modern history and culture of India, or South Asia. Students will gain an understanding of the geography, traditions, religions, and culture that make India a distinct civilization.

The course traces the history of Modern India from the Mughal Empire through the British Raj, Ghandi and nationalism, partition, and the Republic of India. Finally, the course examines the recent rise of Hindu fundamentalism and its implications for the world's largest democracy.

**Prerequisite:** Junior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HIST 31118 VIETNAM WAR 3 Credit Hours**

Study of the causes, evolution and effects of warfare in Vietnam from 1946 to 1975 with special attention to colonialism, nationalism, communism and American intervention.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HIST 31119 THE SIXTIES: A THIRD WORLD VIEW 3 Credit Hours**

Examines the political, social and cultural upheaval of the 1960s in Latin America, Africa and Asia.

**Prerequisite:** Junior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HIST 31120 COMPARATIVE THIRD WORLD REVOLUTIONS 3 Credit Hours**

Examination of 20th-century revolutions in Latin America, Africa and Asia focusing on ideologies and political leadership.

**Prerequisite:** Junior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HIST 31123 HISTORY OF POST COLONIAL AFRICA 3 Credit Hours**

This course seeks to challenge students to deconstruct the specific causes, meanings, and consequences of political violence in the 20th and 21st century Africa and the impact such violence has had on African democratic traditions. We will explore recent and current categories of political violence including state violence against ethnic and regional minorities. The course will also examine the positive contributions of African culture and daily life, with attention to alternative futures for Africans and others based on African experience.

**Prerequisite:** Sophomore standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HIST 31124 HIGHLIFE HISTORIES: MODERN AFRICAN URBAN EXPERIENCE 3 Credit Hours**

The term 'high-life' is most often associated with a musical style originating in Ghana and Sierra Leone in the 1920s and popular to the present day. The music mixed the sounds of American, European, and Caribbean influences within African musical traditions. Just like the music, African urban life has been a mixture of Western notions of town planning, architecture, and politics with African cultural and interpersonal traditions. The history of the African city offers a useful lens into the complicated and creative mixture of African and global sources. This course will focus on this mixing over the 20th century, concentrating on cities such as Harare, Zimbabwe; Accra, Ghana; Lagos, Nigeria; and Nairobi, Kenya.

**Prerequisite:** Junior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HIST 31126 HISTORY OF THE MIDDLE EAST 3 Credit Hours**

A survey of Islamic civilization in Middle Eastern context from the earliest days to the present.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HIST 31127 ANCIENT AND EARLY MEDIEVAL JEWISH HISTORY 3 Credit Hours**

Deals with the ancient and early medieval Jewish history from approximately 2000 B.C. to approximately 1200 A.D.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HIST 31128 LATE MEDIEVAL AND MODERN JEWISH HISTORY 3 Credit Hours**

Survey of Jewish history in Europe and the Middle East from the age of the crusades to the 20th century.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HIST 31130 HISTORY OF PRE-COLONIAL AFRICA TO 1880 3 Credit Hours**

This course provides a survey of cultural, political, social and economic history of Africa from antiquity to the onset of European colonialism in the 1880s. The history of the Atlantic, Saharan, and East African slave trade will be investigated, as will the contributions of African cultures to world history.

**Prerequisite:** Sophomore standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HIST 31140 MODERN LATIN AMERICA (DIVG) 3 Credit Hours**

Focuses on 20th-century Latin America and the efforts by social classes and their political leaderships to overcome obstacles of underdevelopment. Emphasis on Argentina, Brazil, Chile, Mexico, Cuba and Central America.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Diversity Global

**HIST 31141 EARLY LATIN AMERICA 3 Credit Hours**

Examines Latin America from precolonial times to the late 19th century. Lectures emphasize political and economic questions while readings focus on social history.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HIST 31500 FOUNDATIONS IN THE HISTORY AND PHILOSOPHY OF SCIENCE 3 Credit Hours**

(Cross-listed with PHIL 31080) An introduction to the study of science as a social, cultural, and historical phenomenon with an emphasis on the history of science primarily in Western civilization since 1500 and the major philosophical approaches to science developed in the twentieth century.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HIST 31543 THE SCIENTIFIC REVOLUTION 3 Credit Hours**

A survey of the major social, cultural, and historical developments in the sciences and medicine in Europe from 1500 to 1750.

**Prerequisite:** Junior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HIST 31550 MEDICINE IN THE MODERN WORLD SINCE 1500 3 Credit Hours**

An introduction to the main social, cultural, and intellectual developments in the history of medicine from the Renaissance to the twentieth century using an approach to the history of medicine which emphasizes the interactions between ideas, institutions, and individuals.

**Prerequisite:** Junior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HIST 32050 HISTORICAL RESEARCH METHODS 3 Credit Hours**

Introduction to the study and practice of historical writing including historical methods, historiography, primary and secondary source research, critical analysis or documentary sources, historical reasoning and the preparation of written reports. Emphasis on developing effective communication skills and research procedures, record-keeping, citation, and bibliography.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**HIST 37001 FLORENCE THE MYTH OF A CITY 3 Credit Hours**

Florence is considered the birthplace of the Renaissance and the cradle of modern Western Civilization because, among the many Italian city-states, it experienced a cultural development that had no precedent in European history. Florentine republicanism is a political paradigm through which we, still today, trace the origins of the values of democracy, freedom, rational thought, individualism, the scientific method and the capacity for critical reflection. This course covers and analyzes different historical eras of Florence from its founding, during the Roman era, up until today. Special attention is given to periods of intensive development in Florence: the re-birth of the Middle Ages, the splendor of the Renaissance, and the crucial role of the Risorgimento, when the city was the capital of the new Kingdom of Italy (1865-1871) and became a center of culture and modern civilization. This course will be offered only in Florence.

**Prerequisite:** Sophomore standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HIST 38495 SPECIAL TOPICS IN AREA STUDIES 3 Credit Hours**

Special course with a primary focus on the history of a particular place (state, nation, region). Topic as well as chronological and geographical focus will vary by term and by instructor. Exact course titles and descriptions will be inserted into the Schedule of Classes. Repeatable for credit.

**Prerequisite:** Sophomore standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HIST 38595 SPECIAL TOPICS IN THEMATIC STUDIES 3 Credit Hours**

Special course with a primary focus on the history of a specific topic or theme. Chronological and geographical focus as well as topic will vary by term and by instructor. Exact course titles and descriptions will be inserted into the Schedule of Classes. Repeatable for credit.

**Prerequisite:** Sophomore standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HIST 40092 INTERNSHIP IN HISTORY (ELR) 3 Credit Hours**

(Repeatable for credit) Student internship at an institution related to the history major (e.g., historical society, museum, archives, historic preservation organization).

**Prerequisite:** Junior standing.

**Schedule Type:** Practical Experience

**Contact Hours:** 3 other

**Grade Mode:** Satisfactory/Unsatisfactory

**Attributes:** Experiential Learning Requirement



**HIST 40093 WORKSHOP IN HISTORY 1-6 Credit Hours**

(Repeatable for credit) (Cross-listed with HIST 50093) Special workshop in history. Topic will vary according to professor.

**Prerequisite:** None.

**Schedule Type:** Workshop

**Contact Hours:** 1-6 other

**Grade Mode:** Satisfactory/Unsatisfactory

**HIST 40197 AMERICAN CULTURAL HERITAGE:THE ARTS AND SOCIETY 3 Credit Hours**

Examination of music, painting and literature in their cultural contexts during four periods of American history. American studies methodology and interdisciplinary thought.

**Prerequisite:** One prior course in history; and junior standing.

**Schedule Type:** Colloquium

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**HIST 41000 INTRODUCTION TO PUBLIC HISTORY 3 Credit Hours**

(Slashed with HIST 51000 and HIST 71000) A survey of public history including: archives, editing, museums and historical agency administration; historic preservation and related skill areas (e.g. artifact analysis, oral history).

**Prerequisite:** Junior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HIST 41006 ROMAN HISTORY 3 Credit Hours**

(Cross-listed with CLAS 41006 and CLAS 51006) (Slashed with HIST 51006 and HIST 71006) A survey of Roman history from its beginnings to the fall of the Roman Empire.

**Prerequisite:** Junior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HIST 41010 THE EARLY MIDDLE AGES 3 Credit Hours**

(Slashed with HIST 51010 and HIST 71010) Survey of major political, social and cultural developments of Europe from the fourth through 10th centuries.

**Prerequisite:** Junior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HIST 41011 THE HIGH MIDDLE AGES 3 Credit Hours**

(Slashed with HIST 51011 and HIST 71011) Survey of political, social and cultural developments of Europe from 11th through 13th centuries.

**Prerequisite:** Junior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HIST 41020 NINETEENTH-CENTURY EUROPE 3 Credit Hours**

Focus on industrialization and social transformation, political upheavals, intellectual thought, nationalism and foreign policy in Great Britain, France, Prussia and Austria.

**Prerequisite:** Junior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HIST 41024 MODERN EUROPEAN HISTORY, 1914-1945 3 Credit Hours**

(Slashed with HIST 51024 and HIST 71024) Special attention paid to the two world wars, Bolshevik Revolution, rise of fascism and fate of European Jewry.

**Prerequisite:** Junior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HIST 41025 MODERN EUROPEAN HISTORY:1945-PRESENT 3 Credit Hours**

(Slashed with HIST 51025 and HIST 71025) Survey of European political, economic, social and cultural developments since 1945.

**Prerequisite:** Junior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HIST 41032 CONSUMPTION AND MASS CULTURE IN MODERN EUROPE 3 Credit Hours**

Examines shifts in consumption and the growth of mass consumer society in Europe from 1815 to the present, including the evolution of consumer societies, or those societies in which people construct their identities through commodities; the changes that ensued with the growth of mass consumption; and differing consumption regimes in Eastern and Western Europe in the twentieth century.

**Prerequisite:** Junior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HIST 41033 WOMEN AND GENDER IN MODERN EUROPE 3 Credit Hours**

The modern period of European history saw revolutionary change politically, economically and socially. In this course, the ways that a gendered analysis can change and deepen our understanding of these historical changes and events is examined, including the "lived experience" of women and men focusing on family, sexual lives, work and politics.

**Prerequisite:** Junior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HIST 41034 THE POLITICS OF DRESS IN MODERN EUROPE 3 Credit Hours**

(Slashed with HIST 51034 and HIST 71034) An examination of the role clothing played in the history of Modern Europe that uses labor, social, gender, and religious history to understand how political and economic changes affected the daily lives of Europeans through a close examination of what they wore.

**Prerequisite:** Sophomore standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HIST 41041 HISTORY OF GERMANY, 1871-PRESENT 3 Credit Hours**

Focuses on the impact of industrialization, the dilemma of the German left, the rise of Nazism and the emergence of two German states after 1945.

**Prerequisite:** Junior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HIST 41044 IMPERIAL RUSSIA, 1689-1917 3 Credit Hours**

(Slashed with HIST 51044 and HIST 71044) Study of the entire imperial period, with focus on modernization, state institutions, nationalities, social groups and estates, economy, politics and ideologies, and elite and popular culture.

**Prerequisite:** Junior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HIST 41045 MODERN RUSSIA, 1917-PRESENT 3 Credit Hours**

(Slashed with HIST 51045 and HIST 71045) Focus on 1917 revolutions; Civil War; nationalities question; NEP, collectivization; Great Terror; World War II; Cold War; Soviet Foreign policy and culture; Perestroika and post-Soviet economic, political and ideological changes.

**Prerequisite:** Junior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HIST 41056 HISTORY OF COLONIAL AMERICA:1492-1714 (DIVD) 3 Credit Hours**

(Slashed with HIST 51056 and HIST 71056) Major patterns of thought and behavior among Spanish, French and English expansionists; English colonization to 1714.

**Prerequisite:** Junior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Diversity Domestic

**HIST 41057 EIGHTEENTH-CENTURY AMERICA:1714-1789 (DIVD) 3 Credit Hours**

(Slashed with HIST 51057 and HIST 71057) Cultural development of English colonies; Great War for Empire; American Revolution and Constitution.

**Prerequisite:** Junior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Diversity Domestic

**HIST 41058 JEFFERSON-JACKSON ERA, 1789-1848 3 Credit Hours**

(Slashed with HIST 51058 and HIST 71058) Study of the founding and development of the American nation, especially the periods of Jefferson and Jackson.

**Prerequisite:** Junior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HIST 41060 COMPARATIVE FASCISM 3 Credit Hours**

(Slashed with HIST 51060 and HIST 71060) Examination of the theories and practices of fascist movements and regimes in twentieth-century Europe utilizing a variety of perspectives. Organized primarily thematically instead of geographically with readings and discussions based on historiographical and critical analyses.

**Prerequisite:** Junior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HIST 41062 THE UNITED STATES:THE WESTWARD MOVEMENT 3 Credit Hours**

(Slashed with HIST 51062 and HIST 71062) The process of settlement from its beginnings; consequences for American history.

**Prerequisite:** Junior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HIST 41071 AMERICAN SOCIAL AND INTELLECTUAL HISTORY, 1876-PRESENT (DIVD) 3 Credit Hours**

(Slashed with HIST 51071) Development of social Darwinism, racism, pragmatism, popular arts.

**Prerequisite:** Junior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Diversity Domestic

**HIST 41077 THE GREAT DEPRESSION IN AMERICA 3 Credit Hours**

Examines the impact and meaning of the Depression era, suggesting that the crisis helped to usher in a new way of imagining American society. Beginning with an overview of modernism, modernity and the modern age, the course explores how the New Deal fits into these theories, how specific programs operated under their ideals, and finally, how American society adapted and accepted this 'modern' vision.

**Prerequisite:** Junior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HIST 41085 THE SIXTIES IN AMERICA 3 Credit Hours**

The era of the 1960s outlined the debates and patterns of American history in the latter part of the twentieth century and continues to resonate in our contemporary world. This course examines the seminal events, persons and developments - including JFK's New Frontiers policy; Martin Luther King Jr. and Malcolm X; the March on Washington; Johnson's Great Society; the Vietnam War; the New Left; the counter-culture; country music; the rise of modern conservatism; Nixon; Watergate; and the Oil Crisis - to get a better understanding of the meaning and significance of this crucial era to the history of the United States and the world.

**Prerequisite:** Junior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HIST 41112 HISTORY OF MODERN CHINA 3 Credit Hours**

(Slashed with HIST 51112 and HIST 71112) Disintegration of the Chinese empire amid Western challenge and internal disorder and the subsequent rise of communism.

**Prerequisite:** Junior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HIST 41129 THE HOLOCAUST: THE DESTRUCTION OF EUROPEAN JEWRY, 1938-1945 3 Credit Hours**

Analysis of those political, economic, social and intellectual factors leading to systematic destruction of European Jewry during World War II.

**Prerequisite:** Junior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HIST 41132 HISTORY OF COLONIAL AFRICA, 1880-1994 3 Credit Hours**

This course provides a survey of African experiences with colonialism from the period of formal colonialism to the period of decolonization and the end of settler colonialism in Rhodesia and South Africa. The course explores regional experiences across sub-Saharan African and North Africa. The course will explore questions of resistance and collaboration and the foundations of post-colonial states in the colonial experience. Gender, class, ethnicity, and generational differences will be explored at the center of this historical survey.

**Prerequisite:** Junior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HIST 41789 THE FRENCH REVOLUTION AND NAPOLEON 3 Credit Hours**

(Slashed with HIST 51789 and HIST 71789) Analysis of the causes of Revolution in France, political, ideological and social conflict in the construction of French democracy expansion of the revolution outside of France.

**Prerequisite:** Senior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HIST 42142 AFRO-LATIN AMERICA 3 Credit Hours**

(Slashed with HIST 52142, HIST 72142) Focuses on the social, cultural and political life of the African population of Latin America, from 19th century slaves to shantytown dwellers of megacities such as Rio de Janeiro. Topics include black resistance to racism, race mixture in multicultural societies, and how employment, political participation and family organization empowered the lives of Afro-Latin women.

**Prerequisite:** Junior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HIST 42297 COLLOQUIUM:CHINA AND JAPAN (WIC) 3 Credit Hours**

Study of important issues in the history of China and Japan through reading and discussing major works pertinent to the issues selected.

**Prerequisite:** Junior standing.

**Schedule Type:** Colloquium

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**Attributes:** Writing Intensive Course

**HIST 43797 COLLOQUIUM ON VICTORIAN ENGLAND (WIC) 3 Credit Hours**

Consideration of distinctive features of Victorian England including class structure, ideas, manners, politics, foreign affairs, empire.

**Prerequisite:** None.

**Schedule Type:** Colloquium

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**Attributes:** Writing Intensive Course

**HIST 48697 COLLOQUIUM:U.S. MIDDLE PERIOD, 1820-1900 (WIC) 3 Credit Hours**

(Slashed with HIST 58697 and HIST 78697) Reading, discussion and written reviewing of important works on the period.

**Prerequisite:** Junior standing.

**Schedule Type:** Colloquium

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**Attributes:** Writing Intensive Course

**HIST 48897 COLLOQUIUM IN AFRICAN AMERICAN HISTORY SINCE 1877 3 Credit Hours**

(Slashed with HIST 58897 and HIST 78897) This colloquium specializes in African American history after 1877, with emphasis on historiographical literature of the period.

**Prerequisite:** Junior standing.

**Schedule Type:** Colloquium

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**HIST 49091 SENIOR SEMINAR IN HISTORY (ELR) (WIC) 3 Credit Hours**

(Repeatable for credit)History majors complete a significant work of original research based on primary sources. Topics vary by instructor. Enrollment limited to senior history majors.

**Prerequisite:** HIST 32050 with minimum C grade; and history major; and senior standing.

**Schedule Type:** Seminar

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**Attributes:** Experiential Learning Requirement, Writing Intensive Course

**HIST 49095 SPECIAL TOPICS IN UNITED STATES HISTORY 3 Credit Hours**

(Repeatable for a maximum of 18 credit hours) (Slashed with HIST 59095 and HIST 79095) Special course in the history of the United States, the subject and topic of which varies by term and instructor. Precise titles and descriptions to be inserted in the Schedule of classes.

**Prerequisite:** Junior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HIST 49195 SPECIAL TOPICS: EUROPE SINCE 1500 3 Credit Hours**

(Repeatable for maximum 18 credit hours) (Slashed with HIST 59195 and HIST 79195) Special course in the history of Europe since 1500, the subject and topic of which varies by term and instructor. Precise titles and descriptions to be inserted in the Schedule of Classes.

**Prerequisite:** Junior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HIST 49196 INDIVIDUAL INVESTIGATION 2,3 Credit Hours**

(Repeatable for credit)

**Prerequisite:** Special approval.

**Schedule Type:** Individual Investigation

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter-IP

**HIST 49199 SENIOR HONORS PROJECT (ELR) 3-6 Credit Hours**  
 (Repeatable for credit) Thesis or other independent study or creative project. Required of students seeking to graduate with honors in history.  
**Prerequisite:** Permission (see HONR 40099).  
**Schedule Type:** Senior Project/Honors Thesis  
**Contact Hours:** 3-6 other  
**Grade Mode:** Standard Letter-IP  
**Attributes:** Experiential Learning Requirement

**HIST 49295 SPECIAL TOPICS IN GLOBAL HISTORY 3 Credit Hours**  
 (Repeatable for credit) (Slashed with HIST 59295 and HIST 79295) Special course in the history of the ancient and medieval worlds, Africa, Asia, Latin America, and/or the Middle East, the subject and topic of which varies by term and instructor. Precise titles and descriptions to be inserted in the Schedule of Classes.  
**Prerequisite:** Junior standing.  
**Schedule Type:** Lecture  
**Contact Hours:** 3 lecture  
**Grade Mode:** Standard Letter

**HIST 50093 WORKSHOP IN HISTORY 1-6 Credit Hours**  
 (Repeatable for credit) (Slashed with HIST 40093) Special workshop in history. Topic will vary according to professor.  
**Prerequisite:** None.  
**Schedule Type:** Workshop  
**Contact Hours:** 1-6 other  
**Grade Mode:** Satisfactory/Unsatisfactory

**HIST 51000 PUBLIC HISTORY 3 Credit Hours**  
 (Slashed with HIST 41000 and HIST 71000) A survey of public history including: archives; editing, museums and historical agency administration; historic preservation; and related skill areas (e.g. artifact analysis, oral history).  
**Prerequisite:** Graduate standing.  
**Schedule Type:** Lecture  
**Contact Hours:** 3 lecture  
**Grade Mode:** Standard Letter

**HIST 51005 TEACHING WORLD HISTORY 3 Credit Hours**  
 (Repeatable for credit) (Slashed with HIST 71005) To prepare graduate students to teach world history at the university level. Special focus on integrating non-Western sources and points of view into the world history curriculum, preparation of world history syllabus and justification of selected readings and topics, mastery of on-line and in-class technologies to deliver world history materials.  
**Prerequisite:** Graduate standing in history.  
**Schedule Type:** Lecture  
**Contact Hours:** 3 lecture  
**Grade Mode:** Standard Letter

**HIST 51006 ROMAN HISTORY 3 Credit Hours**  
 (Cross-listed with CLAS 41006 and CLAS 51006) (Slashed with HIST 41006 and HIST 71006) A survey of Roman history from its beginnings to the Fall of the Roman Empire.  
**Prerequisite:** Graduate standing.  
**Schedule Type:** Lecture  
**Contact Hours:** 3 lecture  
**Grade Mode:** Standard Letter

**HIST 51010 THE EARLY MIDDLE AGES 3 Credit Hours**  
 (Slashed with HIST 41010 and HIST 71010) A survey of the major political, social and cultural developments of Europe from the fourth through the tenth century.  
**Prerequisite:** Graduate standing.  
**Schedule Type:** Lecture  
**Contact Hours:** 3 lecture  
**Grade Mode:** Standard Letter

**HIST 51011 THE HIGH MIDDLE AGES 3 Credit Hours**  
 (Slashed with HIST 41011 and HIST 71011) A survey of political, social and cultural developments of Europe from the eleventh through the thirteenth century.  
**Prerequisite:** Graduate standing.  
**Schedule Type:** Lecture  
**Contact Hours:** 3 lecture  
**Grade Mode:** Standard Letter

**HIST 51024 MODERN EUROPEAN HISTORY, 1914-1945 3 Credit Hours**  
 (Slashed with HIST 41024 and HIST 71024) Special attention paid to the two World Wars, Bolshevik Revolution, rise of Fascism and fate of European Jewry.  
**Prerequisite:** Graduate standing.  
**Schedule Type:** Lecture  
**Contact Hours:** 3 lecture  
**Grade Mode:** Standard Letter

**HIST 51025 MODERN EUROPEAN HISTORY:1945 TO PRESENT 3 Credit Hours**  
 (Slashed with HIST 41025 and HIST 71025) Survey of European political, economic, social and cultural developments since 1945.  
**Prerequisite:** Graduate standing.  
**Schedule Type:** Lecture  
**Contact Hours:** 3 lecture  
**Grade Mode:** Standard Letter

**HIST 51034 THE POLITICS OF DRESS IN MODERN EUROPE 3 Credit Hours**  
 (Slashed with HIST 41034 and HIST 71034) An examination of the role clothing played in the history of Modern Europe that uses labor, social, gender, and religious history to understand how political and economic changes affected the daily lives of Europeans through a close examination of what they wore.  
**Prerequisite:** Graduate standing.  
**Schedule Type:** Lecture, Seminar  
**Contact Hours:** 3 lecture  
**Grade Mode:** Standard Letter

**HIST 51044 RUSSIA FROM ITS ORIGINS TO 1801 3 Credit Hours**  
 (Slashed with HIST 41044 and HIST 71044) Study of the entire imperial period, with focus on modernization, state institutions, nationalities, social groups and estates, economy, politics and ideologies, and elite and popular culture.  
**Prerequisite:** Graduate standing.  
**Schedule Type:** Lecture  
**Contact Hours:** 3 lecture  
**Grade Mode:** Standard Letter

**HIST 51045 MODERN RUSSIA, 1917-PRESENT 3 Credit Hours**

(Slashed with HIST 41045 and HIST 71045) Focus on 1917 revolutions, civil war, nationalities question, NEP, collectivization, Great Terror, World War II, Cold War, Soviet foreign policy and culture, Perestroika, and post-Soviet economic, political, and ideological changes.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HIST 51056 HISTORY OF COLONIAL AMERICA, 1492-1714 3 Credit Hours**

(Slashed with HIST 41056 and HIST 71056) Major patterns of thought and behavior among Spanish, French and English expansionists; English colonization to 1714.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HIST 51057 18TH-CENTURY AMERICA, 1714-1789 3 Credit Hours**

(Slashed with HIST 41057 and HIST 71057) Cultural development of English Colonies; Great War for Empire; American Revolution and Constitution.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HIST 51058 THE JEFFERSON-JACKSON ERA, 1789-1848 3 Credit Hours**

(Slashed with HIST 41058 and HIST 71058) A study of the founding and development of the American nation, especially the periods of Jefferson and Jackson.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HIST 51060 COMPARATIVE FASCISM 3 Credit Hours**

(Slashed with HIST 41060 and HIST 71060) Examination of the theories and practices of fascist movements and regimes in twentieth-century Europe utilizing a variety of perspectives. Organized primarily thematically instead of geographically with readings and discussions based on historiographical and critical analyses.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HIST 51062 THE UNITED STATES:THE WESTWARD MOVEMENT 3 Credit Hours**

(Slashed with HIST 41062 and HIST 71062) The process of settlement from its beginning; consequences for American history.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HIST 51071 AMERICAN SOCIAL AND INTELLECTUAL HISTORY, 1876 TO PRESENT 3 Credit Hours**

(Slashed with HIST 41071) Development of social Darwinism, racism, Pragmatism, popular arts.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HIST 51097 COLLOQUIUM:SAINTS, MONKS AND THE MEDIEVAL COMMUNITY 3 Credit Hours**

(Repeatable for credit) (Slashed with HIST 71097) Investigates major religious institutions that shaped medieval European society and the impact on popular piety.

**Prerequisite:** Graduate standing.

**Schedule Type:** Colloquium

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**HIST 51112 HISTORY OF MODERN CHINA 3 Credit Hours**

(Slashed with HIST 41112 and HIST 71112) Disintegration of the Chinese empire amid Western challenge and internal disorder and the subsequent rise of Communism.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HIST 51789 THE FRENCH REVOLUTION AND NAPOLEON 3 Credit Hours**

(Slashed with HIST 41789 and HIST 71789) Analysis of the causes of revolution in France, political ideological and social conflict in the construction of French democracy expansion of the revolution outside of France.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HIST 52142 AFRO-LATIN AMERICA 3 Credit Hours**

(Slashed with HIST 42142 and HIST 72142) Course focuses on the social, cultural and political life of the African population of Latin America, from 19th century slaves to shantytown dwellers of megacities such as Rio de Janeiro. Topics include black resistance to racism, race mixture in multicultural societies, and how employment, political participation and family organization empowered the lives of Afro-Latin women.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HIST 58697 COLLOQUIUM:U.S. MIDDLE PERIOD 1820-1900 3 Credit Hours**

(Repeatable for credit) (Slashed with HIST 48697 and HIST 58697) Reading, discussion and written reviewing of important works on the period.

**Prerequisite:** Graduate standing.

**Schedule Type:** Colloquium

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter



**HIST 58897 COLLOQUIUM IN AFRICAN-AMERICAN HISTORY SINCE 1877 3 Credit Hours**

(Repeatable for credit) (Slashed with HIST 48897 and HIST 78897) This colloquium specializes in African American history from 1877, with emphasis on historiographical literature of the period.

**Prerequisite:** Graduate standing.

**Schedule Type:** Colloquium

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**HIST 59095 SPECIAL TOPICS IN UNITED STATES HISTORY 3 Credit Hours**

(Repeatable for credit) (Slashed with HIST 49095 and HIST 59095) Special course in the history of the United States, the subject and topic of which varies by term and instructor. Precise titles and descriptions to be inserted in the Schedule of Classes. Repeatable.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HIST 59195 SPECIAL TOPICS: EUROPE SINCE 1500 3 Credit Hours**

(Repeatable for credit) (Slashed with HIST 49195 and HIST 79195) Special course in the history of Europe since 1500, the subject and topic of which varies by term and instructor. Precise titles and descriptions to be inserted in the Schedule of Classes.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HIST 59295 SPECIAL TOPICS IN GLOBAL HISTORY 3 Credit Hours**

(Repeatable for credit) (Slashed with HIST 49295 and HIST 79295) Special course in the history of the ancient and medieval worlds, Africa, Asia, Latin America, and/or the Middle East, the subject and topic of which varies by term and instructor. Precise titles and descriptions to be inserted in the Schedule of Classes.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HIST 60092 PUBLIC HISTORY INTERNSHIP 3-6 Credit Hours**

(Repeatable for credit) (Slashed with HIST 70092) Students serve an internship at an institution related to their emphasis in public history (e.g., historical society, museum, archives, historical preservation organization).

**Prerequisite:** Graduate standing.

**Schedule Type:** Practical Experience

**Contact Hours:** 3-6 other

**Grade Mode:** Satisfactory/Unsatisfactory

**HIST 61002 HISTORIOGRAPHY 3 Credit Hours**

Development of historical thinking. Students will read excerpts of famous historians and prepare papers.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HIST 61070 WRITING SEMINAR IN HISTORY 3 Credit Hours**

(Repeatable for credit) (Slashed with HIST 81070) Students will spend the semester conceptualizing, researching and writing an article-length piece of original historical scholarship. Basic topics to be addressed include prospectus drafting, source identification, historiography, research methods, scholarly writing and revision, oral presentation and professional critiquing. All students will be expected to supplement the guidance they receive from the seminar instructor with regular consultations with their departmental advisors.

**Prerequisite:** Graduate standing.

**Schedule Type:** Seminar

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HIST 62070 AMERICAN HISTORY FROM PRECONTACT NATIVE AMERICA THROUGH THE CIVIL WAR 3 Credit Hours**

(Slashed with HIST 82070) This reading colloquium will survey the major aspects of American history from the arrival of Europeans in North America through the colonial period of American history and up to the Civil War and Reconstruction. Students will be introduced to both historical content as well as the major historiographical currents in this segment of US history. The aim of the course is to prepare students for comprehensive exams as well as to teach the first half of the US survey course.

**Prerequisite:** Graduate standing.

**Schedule Type:** Colloquium, Seminar

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**HIST 62071 AMERICAN HISTORY FROM THE CIVIL WAR TO THE PRESENT 3 Credit Hours**

(Slashed with HIST 62071) This reading colloquium will survey major aspects of American history since the Civil War within the historiographical traditions through which they have been understood. The aim of the course is to prepare students for comprehensive exams as well as to teach the second half of the US survey course.

**Prerequisite:** Graduate standing.

**Schedule Type:** Colloquium, Seminar

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**HIST 62097 PUBLIC HISTORY COLLOQUIUM 3 Credit Hours**

(Repeatable for credit) (Slashed with HIST 72097) Assigned readings, discussions and papers focus on particular emphases and skill areas in public history.

**Prerequisite:** Graduate standing.

**Schedule Type:** Colloquium

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**HIST 62285 AMERICAN INTELLECTUAL AND CULTURAL HISTORY SINCE 1877 3 Credit Hours**

(Slashed with HIST 82285) This colloquium will explore American Intellectual and Cultural History after 1877 by focusing on modernity. Our readings will discuss modernity's evolution from its late nineteenth-century roots to its dismantlement in the current epoch. We will hear, see, and read about this idea and how it is applied to various manifestations within our society, from material culture to advertising, music, and film.

**Prerequisite:** Graduate standing.

**Schedule Type:** Colloquium, Seminar

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HIST 62345 IMAGES AND IDENTITIES IN US FOREIGN RELATIONS 3 Credit Hours**

This graduate-level reading colloquium will explore the construction of cultural images and national identities in US foreign relations. Course readings and discussions will deal not only with the ways that Americans have "constructed" other nations but also with how other nations have "constructed" the United States. Themes to be explored include the role of intangibles such as culture in the making of policy; the accuracy or inaccuracy of cultural constructs; and the permanency or malleability of cultural ideas.

**Prerequisite:** Graduate standing.

**Schedule Type:** Colloquium, Seminar

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HIST 62400 THE LENS OF WAR: AMERICAN HISTORY THROUGH THE STUDY OF THE MILITARY 3 Credit Hours**

(Slashed with HIST 82400) A survey of the impact conflict and the peacetime military have had on both the history and historiography of colonial America and the United States. Thematic points of emphasis include, but are not limited to civil-military relations, race, national identity, memory, gender, western expansion, American economic development, the growth of the federal government, Cold War culture, and citizenship.

**Prerequisite:** Graduate standing.

**Schedule Type:** Colloquium, Seminar

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HIST 69199 THESIS I 2-6 Credit Hours**

Thesis students must register for a total of 6 hours, 2 to 6 hours in a single semester distributed over several semesters if desired.

**Prerequisite:** Graduate standing.

**Schedule Type:** Masters Thesis

**Contact Hours:** 2-6 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**HIST 69299 THESIS II 2 Credit Hours**

Thesis students must continue registration each semester until all degree requirements are met.

**Prerequisite:** HIST 69199; and graduate standing.

**Schedule Type:** Masters Thesis

**Contact Hours:** 2 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**HIST 69399 CAPSTONE IN HISTORY 3 Credit Hours**

Capstone experience required of all MA students who are not writing a thesis. Students will develop an original research project and disseminate their work either through publication or presentation. Projects should integrate primary and secondary source research.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Masters Thesis, Project or Capstone

**Contact Hours:** 3 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**HIST 69499 INTERDISCIPLINARY PROJECT IN HISTORY 3,6 Credit Hours**

Research experience required for all students enrolled in the Master's in History for Secondary School Teachers concentration. Students will draw on their history coursework to complete a substantial piece of research applicable to the work of a practicing teacher. It can be pedagogical in nature, exploring strategies for teaching a particular subject, topic, or historical concept, or might be documentary in nature, such as historically informed teaching materials for a given subject, topic, or concept.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Project or Capstone

**Contact Hours:** 3-6 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**HIST 69896 INDIVIDUAL INVESTIGATION 2,3 Credit Hours**

(Repeatable for credit)

**Prerequisite:** Graduate standing.

**Schedule Type:** Individual Investigation

**Contact Hours:** 2-3 other

**Grade Mode:** Standard Letter-IP

**HIST 69898 RESEARCH 1-15 Credit Hours**

(Repeatable for credit)

**Prerequisite:** Graduate standing.

**Schedule Type:** Research

**Contact Hours:** 1-15 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**HIST 70092 PUBLIC HISTORY INTERNSHIP 3-6 Credit Hours**

(Repeatable for credit) (Slashed with HIST 60092) Students serve an internship at an institution related to their emphasis in public history (e.g., historical society, museum, archives, historical preservation organization).

**Prerequisite:** Doctoral standing.

**Schedule Type:** Practical Experience

**Contact Hours:** 3-6 other

**Grade Mode:** Satisfactory/Unsatisfactory

**HIST 71000 PUBLIC HISTORY 3 Credit Hours**

(Slashed with HIST 41000 and HIST 51000) A survey of public history including: archives, editing, museums and historical agency administration; historic preservation; and related skill areas (e.g. artifact analysis, oral history).

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HIST 71005 TEACHING WORLD HISTORY 3 Credit Hours**

(Repeatable for a maximum of 9 credit hours) (Slashed with HIST 51005) To prepare graduate students to teach world history at the university level. Special focus on integrating non-Western sources and points of view into the world history curriculum, preparation of world history syllabus and justification of selected readings and topics, mastery of on-line and in-class technologies to deliver world history materials.

**Prerequisite:** Doctoral standing in History.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HIST 71006 ROMAN HISTORY 3 Credit Hours**

(Cross-listed with CLAS 41006, CLAS 51006) (Slashed with HIST 41006 and HIST 51006) A survey of Roman history from its beginning to the fall of the Roman empire.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HIST 71010 THE EARLY MIDDLE AGES 3 Credit Hours**

(Slashed with HIST 41010 and HIST 51010) Survey of major political, social and cultural developments of Europe from the fourth through 10th centuries.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HIST 71011 THE HIGH MIDDLE AGES 3 Credit Hours**

(Slashed with HIST 41011 and HIST 51011) Survey of political, social and cultural developments of Europe from 11th through 13th centuries.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HIST 71024 MODERN EUROPEAN HISTORY, 1914-1945 3 Credit Hours**

(Slashed with HIST 41024 and HIST 51024) Special attention paid to the two world wars, Bolshevik Revolution, rise of fascism and fate of European Jewry.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HIST 71025 MODERN EUROPEAN HISTORY: 1945 TO PRESENT 3 Credit Hours**

(Slashed with HIST 41025 and HIST 51025) Survey of European political, economic social and cultural developments since 1945.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HIST 71034 THE POLITICS OF DRESS IN MODERN EUROPE 3 Credit Hours**

(Slashed with HIST 41034 and HIST 51034) An examination of the role clothing played in the history of Modern Europe that uses labor, social, gender, and religious history to understand how political and economic changes affected the daily lives of Europeans through a close examination of what they wore.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture, Seminar

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HIST 71044 RUSSIA FROM ITS ORIGINS TO 1801 3 Credit Hours**

(Slashed with HIST 41044 and HIST 51044) Study of the entire imperial period, with focus on modernization, state institutions, nationalities, social groups and estates, economy, politics and ideologies, and elite and popular culture.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HIST 71045 MODERN RUSSIA, 1917-PRESENT 3 Credit Hours**

(Slashed with HIST 41045 and HIST 51045) Focus on 1917 revolutions; Civil War; nationalities question; NEP; collectivization; great terror; World War II; Cold War; Soviet Foreign policy and culture; Perestroika and post-Soviet economic, political and ideological changes.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HIST 71056 HISTORY OF COLONIAL AMERICA, 1492-1714 3 Credit Hours**

(Slashed with HIST 41056 and HIST 51056) Major patterns of thought and behavior among Spanish, French and English expansionists; English colonization to 1714.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HIST 71057 18TH-CENTURY AMERICA, 1714-1789 3 Credit Hours**

(Slashed with HIST 41057 and HIST 51057) Cultural development of English Colonies; Great War for Empire; American Revolution and Constitution.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HIST 71058 THE JEFFERSON-JACKSON ERA, 1789-1848 3 Credit Hours**

(Slashed with HIST 41058 and HIST 51058) Study of the founding and development of the American nation, especially the periods of Jefferson and Jackson.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HIST 71060 COMPARATIVE FACISM 3 Credit Hours**

(Slashed with HIST 41060 and HIST 51060) Examination of the theories and practices of fascist movements and regimes in twentieth-century Europe utilizing a variety of perspectives. Organized primarily thematically instead of geographically with readings and discussions based on historiographical and critical analyses.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HIST 71062 THE UNITED STATES:THE WESTWARD MOVEMENT 3 Credit Hours**

(Slashed with HIST 41062 and HIST 51062) The process of settlement from its beginnings; consequences for American history.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HIST 71097 COLLOQUIUM:SAINTS, MONKS AND THE MEDIEVAL COMMUNITY 3 Credit Hours**

(Repeatable for credit) (Slashed with HIST 51097) Investigates major religious institutions that shaped medieval European society and the impact on popular piety.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Colloquium

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**HIST 71112 HISTORY OF MODERN CHINA 3 Credit Hours**

(Slashed with HIST 41112 and HIST 51112) Disintegration of the Chinese empire amid Western challenge and internal disorder and the subsequent rise of communism.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HIST 71789 THE FRENCH REVOLUTION AND NAPOLEON 3 Credit Hours**

(Slashed with HIST 41789 and HIST 51789) Analysis of the causes of revolution in France, political ideological and social conflict in the construction of French democracy expansion of the revolution outside of France.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HIST 72097 PUBLIC HISTORY COLLOQUIUM 3 Credit Hours**

(Repeatable for credit) (Slashed with HIST 62097) Assigned readings, discussions and papers focus on particular emphases and skill areas in public history.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Colloquium

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**HIST 72140 THE SIXTIES:A THIRD WORLD VIEW 3 Credit Hours**

Examines the political, social and cultural upheaval of the 1960s in Latin America, Africa and Asia.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HIST 72142 AFRO-LATIN AMERICA 3 Credit Hours**

(Slashed with HIST 42142 and HIST 52142) Course focuses on the social, cultural and political life of the African population of Latin America, from 19th century slaves to shantytown dwellers of megacities such as Rio de Janeiro. Topics include black resistance to racism, race mixture in multicultural societies, and how employment, political participation and family organization empowered the lives of Afro-Latin women.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HIST 78697 COLLOQUIUM:U.S. MIDDLE PERIOD 1820-1900 3 Credit Hours**

(Repeatable for credit) (Slashed with HIST 48697 and HIST 58697)

Coverage of the historical literature on Europe's major political, diplomatic, economic and social developments since 1945.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Colloquium

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**HIST 78897 COLLOQUIUM IN AFRICAN-AMERICAN HISTORY SINCE 1877 3 Credit Hours**

(Repeatable for credit) (Slashed with HIST 48897 and HIST 58897) This colloquium specializes in African American history after 1877, with emphasis on historiographical literature of the period.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Colloquium

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**HIST 79095 SPECIAL TOPICS IN UNITED STATES HISTORY 3 Credit Hours**

(Repeatable for credit) (Slashed with HIST 49095 and HIST 59095) Special course in the history of the United States, the subject and topic of which varies by term and instructor. Precise titles and descriptions to be inserted in the Schedule of Classes.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HIST 79195 SPECIAL TOPICS: EUROPE SINCE 1500 3 Credit Hours**

(Repeatable for credit) (Slashed with HIST 49195 and HIST 59195) Special course in the history of Europe since 1500, the subject and topic of which varies by term and instructor. Precise titles and descriptions to be inserted in the Schedule of Classes.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HIST 79295 SPECIAL TOPICS IN GLOBAL HISTORY 3 Credit Hours**

(Repeatable for credit) (Slashed with HIST 49295 and HIST 59295) Special course in the history of the ancient and medieval worlds, Africa, Asia, Latin America, and/or the Middle East, the subject and topic of which varies by term and instructor. Precise titles and descriptions to be inserted in the Schedule of Classes.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HIST 81001 METHODS OF HISTORICAL RESEARCH 3 Credit Hours**

The course introduces graduate students to library reference tools, journal literature, research methodology, quantitative techniques and writing and original research paper.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HIST 81002 HISTORIOGRAPHY 3 Credit Hours**

Development of historical thinking. Students will read excerpts of famous historians and prepare papers.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HIST 81070 WRITING SEMINAR IN HISTORY 3 Credit Hours**

(Repeatable twice for credit) (Slashed with HIST 61070) Students will spend the semester conceptualizing, researching, and writing an article-length piece of original historical scholarship. Basic topics to be addressed include prospectus drafting, source identification, historiography, research methods, scholarly writing and revision, oral presentation, and professional critiquing. All students will be expected to supplement the guidance they receive from the seminar instructor with regular consultations with their departmental advisors.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Seminar

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HIST 82070 AMERICAN HISTORY FROM PRECONTACT NATIVE AMERICA THROUGH THE CIVIL WAR 3 Credit Hours**

(Slashed with HIST 62070) This reading colloquium will survey the major aspects of American history from the arrival of Europeans in North America through the colonial period of American history and up to the Civil War and Reconstruction. Students will be introduced to both historical content as well as the major historiographical currents in this segment of US history. The aim of the course is to prepare students for comprehensive exams as well as to teach the first half of the US survey course.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Colloquium, Seminar

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**HIST 82071 AMERICAN HISTORY FROM THE CIVIL WAR TO THE PRESENT 3 Credit Hours**

(Slashed with HIST 62071) This reading colloquium will survey major aspects of American history since the Civil War within the historiographical traditions through which they have been understood. The aim of the course is to prepare students for comprehensive exams as well as to teach the second half of the US survey course.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Colloquium, Seminar

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**HIST 82285 AMERICAN INTELLECTUAL AND CULTURAL HISTORY SINCE 1877 3 Credit Hours**

(Slashed with HIST 82285) This colloquium will explore American Intellectual and Cultural History after 1877 by focusing on modernity. Our readings will discuss modernity's evolution from its late nineteenth-century roots to its dismantlement in the current epoch. We will hear, see, and read about this idea and how it is applied to various manifestations within our society, from material culture to advertising, music, and film.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Colloquium, Seminar

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HIST 82345 IMAGES AND IDENTITIES IN US FOREIGN RELATIONS 3 Credit Hours**

This graduate-level reading colloquium will explore the construction of cultural images and national identities in US foreign relations. Course readings and discussions will deal not only with the ways that Americans have "constructed" other nations but also with how other nations have "constructed" the United States. Themes to be explored include the role of intangibles such as culture in the making of policy; the accuracy or inaccuracy of cultural constructs; and the permanency or malleability of cultural ideas.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Colloquium, Seminar

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HIST 82400 THE LENS OF WAR: AMERICAN HISTORY THROUGH THE STUDY OF THE MILITARY 3 Credit Hours**

(Slashed with HIST 62400) A survey of the impact conflict and the peacetime military have had on both the history and historiography of colonial America and the United States. Thematic points of emphasis include, but are not limited to civil-military relations, race, national identity, memory, gender, western expansion, American economic development, the growth of the federal government, Cold War culture, and citizenship.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Colloquium, Seminar

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HIST 89199 DISSERTATION I 15 Credit Hours**

(Repeatable for credit) Doctoral dissertation, for which registration in at least two semesters is required first of which will be semester in which dissertation work is begun and continuing until the completion of 30 hours.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Dissertation

**Contact Hours:** 15 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**HIST 89299 DISSERTATION II 15 Credit Hours**

(Repeatable for credit) Continuing registration required of doctoral students who have completed the initial 30 hours of dissertation and continuing until all degree requirements are met.

**Prerequisite:** HIST 89199; and doctoral standing.

**Schedule Type:** Dissertation

**Contact Hours:** 15 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP



**HIST 89896 INDIVIDUAL INVESTIGATION 2,3 Credit Hours**

(Repeatable for credit)

**Prerequisite:** Doctoral standing.**Schedule Type:** Individual Investigation**Contact Hours:** 2-3 other**Grade Mode:** Standard Letter-IP**HIST 89898 RESEARCH 1-15 Credit Hours**

(Repeatable for credit)

**Prerequisite:** Doctoral Standing.**Schedule Type:** Research**Contact Hours:** 1-15 other**Grade Mode:** Satisfactory/Unsatisfactory-IP

## History - B.A.

**College of Arts and Sciences**

Department of History

305 Bowman Hall

Kent Campus

330-672-2882

history@kent.edu

www.kent.edu/history

## Description

The Bachelor of Arts degree in History provides a well-rounded educational experience in which students have the independence and flexibility to explore and develop their individual interests while getting a solid grounding in different approaches to historical research, writing and analysis. The study of history offers insight into the complexity of the human experience by exploring the political, cultural, social, economic and environmental factors that have shaped the past and the present. The study of history also offers training in a range of skills including how to find, evaluate, manage and synthesize multiple sources of information; how to think critically and analyze complex evidence; how to undertake independent research and manage time effectively; how to develop and present reasoned arguments supported by evidence; how to present information and arguments effectively in writing; and how to develop and deliver effective oral presentations. The skills and experiences gained through the study of history provide preparation for a variety of career tracks.

The History major is comprised of several elements. *Lower-Division History Electives* provide history majors with an overview of the major themes and developments in World history from human origins to the present and in the history of the United States from pre-colonization to the present. The required *Historical Research Methods* course introduces students to the main tools and techniques of doing history while providing them with the opportunity to develop and refine the skills of historical research, writing, and analysis to do well in their upper-division coursework. The History major also includes distribution requirements in two categories of upper-division courses. *Area Studies Electives* are a group of upper division history courses in which the history of a place (state, nation, or region) is the primary focus of the courses. *Thematic Studies Electives* are a group of upper-division history courses in which a specific topic or theme is the primary focus of the courses while the place and time period are secondary. The required *Senior Seminar in History* course is a capstone experience in which students develop, design, and execute their own original historical research project that utilizes primary sources and engages with current historical scholarship. Majors are also encouraged to do an internship in history for course credit to gain

job experience and further strengthen their profile for their career after graduation.

### Fully Offered At:

- Kent Campus
- Stark Campus

## Admission Requirements

The university affirmatively strives to provide educational opportunities and access to students with varied backgrounds, those with special talents and adult students who graduated from high school three or more years ago.

**Freshman Students on the Kent Campus:** The freshman admission policy on the Kent Campus is selective. Admission decisions are based upon the following: cumulative grade point average, ACT and/or SAT scores, strength of high school college preparatory curriculum and grade trends. The Admissions Office at the Kent Campus may defer the admission of students who do not meet admissions criteria but who demonstrate areas of promise for successful college study. Deferred applicants may begin their college coursework at one of seven regional campuses of Kent State University. For more information on admissions, including additional requirements for some academic programs, visit the admissions website for new freshmen.

**Freshman Students on the Regional Campuses:** Kent State campuses at Ashtabula, East Liverpool, Geauga, Salem, Stark, Trumbull and Tuscarawas, as well as the Regional Academic Center in Twinsburg, have open enrollment admission for students who hold a high school diploma, GED or equivalent.

**English Language Proficiency Requirements for International Students:** All international students must provide proof of English language proficiency (unless they meet specific exceptions) by earning a minimum 525 TOEFL score (71 on the Internet-based version), minimum 75 MELAB score, minimum 6.0 IELTS score or minimum 48 PTE score, or by completing the ESL level 112 Intensive Program. For more information on international admission, visit the Office of Global Education's admission website.

**Transfer, Transitioning and Former Students:** For more information about admission criteria for transfer, transitioning and former students, please visit the admissions website.

## Program Learning Outcomes

Graduates of this program will be able to:

1. Understand and apply a variety of basic historical methods.
2. Find, use, and analyze historical evidence and communicate their findings in an effective manner.
3. Obtain historical content knowledge and understand the connectedness of historical events and the wide varieties of human experiences.
4. Understand history as a discipline based on interpretation with historical questions constantly being reframed and investigated.

## University Requirements

All students in a bachelor's degree program at Kent State University must complete the following university requirements for graduation.

**NOTE:** University requirements may be fulfilled in this program by specific course requirements. Please see Program Requirements for details.

Destination Kent State: First Year Experience	1
Course is not required for students with 25 transfer credits, excluding College Credit Plus, or age 21+ at time of admission.	
Diversity Domestic/Global (DIVD/DIVG)	2 courses
Students must successfully complete one domestic and one global course, of which one must be from the Kent Core.	
Experiential Learning Requirement (ELR)	varies
Students must successfully complete one course or approved experience.	
Kent Core (see table below)	36-37
Writing-Intensive Course (WIC)	1 course
Students must earn a minimum C grade in the course.	
Upper-Division Requirement	39 (or 42)
Students must successfully complete 39 upper-division (numbered 30000 to 49999) credit hours to graduate. Students in a B.A. and/or B.S. degree in the College of Arts and Sciences must complete 42 upper-division credit hours.	
Total Credit Hour Requirement	120
Some bachelor's degrees require students to complete more than 120 credit hours.	

## Kent Core Requirements

Kent Core Composition (KCOMP)	6
Kent Core Mathematics and Critical Reasoning (KMCR)	3
Kent Core Humanities and Fine Arts (KHUM/KFA) (min one course each)	9
Kent Core Social Sciences (KSS) (must be from two disciplines)	6
Kent Core Basic Sciences (KBS/KLAB) (must include one laboratory)	6-7
Kent Core Additional (KADL)	6
<b>Total Credit Hours:</b>	<b>36-37</b>

## Program Requirements

### Major Requirements

Code	Title	Credit Hours
<b>Major Requirements (courses count in major GPA)</b>		
HIST 32050	HISTORICAL RESEARCH METHODS	3
HIST 49091	SENIOR SEMINAR IN HISTORY (ELR) (WIC) <sup>1</sup>	3
History (HIST) Upper-Division Electives (30000 or 40000 level) <sup>2</sup>		9
History (HIST) Lower-Division Electives (10000 or 20000 level), choose from the following:		9
HIST 11050	WORLD HISTORY: ANCIENT AND MEDIEVAL (DIVG) (KHUM)	
HIST 11051	WORLD HISTORY: MODERN (DIVG) (KHUM)	
HIST 12070	EARLY AMERICA: FROM PRE-COLONIZATION TO CIVIL WAR AND RECONSTRUCTION (DIVD) (KHUM)	
HIST 12071	MODERN AMERICA: FROM INDUSTRIALIZATION TO GLOBALIZATION (DIVD) (KHUM)	

Area Studies Electives, choose from the following:		6
HIST 31022	THE GREAT POWERS IN WAR AND PEACE, 1792-1914	
HIST 31027	HISTORY OF ENGLAND TO 1688	
HIST 31028	ENGLAND SINCE 1688	
HIST 31032	SEVENTEENTH-CENTURY EUROPE	
HIST 31036	THE TWENTIETH CENTURY WORLD	
HIST 31040	AMERICAN HISTORY THROUGH POPULAR MUSIC	
HIST 31050	HISTORY AND SOCIETY OF MODERN GREECE	
HIST 31055	POLITICS, CULTURE AND SOCIETY OF 20TH-CENTURY EUROPE	
HIST 31052	HISTORY OF MODERN FRANCE	
HIST 31053	MODERN EUROPE, 1815 TO PRESENT	
HIST 31056	EUROPE IN THE RENAISSANCE	
HIST 31061	HISTORY OF OHIO	
HIST 31082	HISTORY OF THE CIVIL RIGHTS AND BLACK POWER MOVEMENTS IN THE UNITED STATES	
HIST 31087	SECTIONAL CONFLICT AND CIVIL WAR	
HIST 31100	RECONSTRUCTION AND THE LATER SOUTH	
HIST 31106	PROGRESSIVE AMERICA: THE UNITED STATES, 1896-1919	
HIST 31107	NEW ERA THROUGH WORLD WAR: THE UNITED STATES, 1920-1945	
HIST 31108	RECENT AMERICA: THE UNITED STATES, 1945-PRESENT	
HIST 31112	CHINESE CIVILIZATION	
HIST 31113	HISTORY OF JAPAN	
HIST 31115	INDIA SINCE 1526	
HIST 31123	HISTORY OF POST COLONIAL AFRICA	
HIST 31126	HISTORY OF THE MIDDLE EAST	
HIST 31130	HISTORY OF PRE-COLONIAL AFRICA TO 1880	
HIST 31140	MODERN LATIN AMERICA (DIVG)	
HIST 31141	EARLY LATIN AMERICA	
HIST 37001	FLORENCE THE MYTH OF A CITY	
HIST 38495	SPECIAL TOPICS IN AREA STUDIES	
HIST 40197	AMERICAN CULTURAL HERITAGE: THE ARTS AND SOCIETY	
HIST 41006	ROMAN HISTORY	
HIST 41010	THE EARLY MIDDLE AGES	
HIST 41011	THE HIGH MIDDLE AGES	
HIST 41020	NINETEENTH-CENTURY EUROPE	
HIST 41024	MODERN EUROPEAN HISTORY, 1914-1945	
HIST 41025	MODERN EUROPEAN HISTORY: 1945-PRESENT	
HIST 41041	HISTORY OF GERMANY, 1871-PRESENT	
HIST 41044	IMPERIAL RUSSIA, 1689-1917	
HIST 41045	MODERN RUSSIA, 1917-PRESENT	
HIST 41056	HISTORY OF COLONIAL AMERICA: 1492-1714 (DIVD)	
HIST 41057	EIGHTEENTH-CENTURY AMERICA: 1714-1789 (DIVD)	
HIST 41058	JEFFERSON-JACKSON ERA, 1789-1848	
HIST 41077	THE GREAT DEPRESSION IN AMERICA	
HIST 41085	THE SIXTIES IN AMERICA	
HIST 41112	HISTORY OF MODERN CHINA	
HIST 41132	HISTORY OF COLONIAL AFRICA, 1880-1994	
HIST 41789	THE FRENCH REVOLUTION AND NAPOLEON	
HIST 42297	COLLOQUIUM: CHINA AND JAPAN (WIC)	

HIST 43797	COLLOQUIUM ON VICTORIAN ENGLAND (WIC)	
HIST 48697	COLLOQUIUM:U.S. MIDDLE PERIOD, 1820-1900 (WIC)	
Thematic Studies Electives, choose from the following:		6
HIST 31020	POLIS TO METROPOLIS: HISTORY OF THE EUROPEAN CITY	
HIST 31024	WORLD WAR II	
HIST 31030	NATO:THE ENDURING ALLIANCE	
HIST 31031	THE PROTESTANT AND CATHOLIC REFORMATIONS	
HIST 31033	WITCHES AND EUROPEAN HISTORY, 1500-1800	
HIST 31035	THE GLOBAL COLD WAR	
HIST 31041	SPORT HISTORY IN THE UNITED STATES	
HIST 31045	A HISTORY OF CRIME IN THE UNITED STATES	
HIST 31071	US FOREIGN RELATIONS THROUGH 1898	
HIST 31072	US FOREIGN RELATIONS, 1898-1945	
HIST 31073	US FOREIGN RELATIONS SINCE 1945	
HIST 31074	HISTORY OF ESPIONAGE: FROM JOSHUA TO EDWARD SNOWDEN	
HIST 31075	HISTORY OF WOMEN IN THE UNITED STATES	
HIST 31077	HISTORY OF SEXUALITY IN THE UNITED STATES	
HIST 31080	AFRICAN AMERICAN HISTORY: SLAVERY TO FREEDOM	
HIST 31083	THE HISTORY OF WHITENESS IN THE UNITED STATES	
HIST 31101	WAR AND SOCIETY IN THE UNITED STATES FROM 1607 THROUGH 1865	
HIST 31102	WAR AND SOCIETY IN THE UNITED STATES FROM 1865 TO THE PRESENT	
HIST 31104	MIGRATIONS TO AMERICA, 1607 TO PRESENT	
HIST 31114	TRADITION AND REVOLUTION IN SOUTHEAST ASIA	
HIST 31118	VIETNAM WAR	
HIST 31119	THE SIXTIES: A THIRD WORLD VIEW	
HIST 31120	COMPARATIVE THIRD WORLD REVOLUTIONS	
HIST 31124	HIGHLIFE HISTORIES: MODERN AFRICAN URBAN EXPERIENCE	
HIST 31127	ANCIENT AND EARLY MEDIEVAL JEWISH HISTORY	
HIST 31128	LATE MEDIEVAL AND MODERN JEWISH HISTORY	
HIST 31500	FOUNDATIONS IN THE HISTORY AND PHILOSOPHY OF SCIENCE	
HIST 31543	THE SCIENTIFIC REVOLUTION	
HIST 31550	MEDICINE IN THE MODERN WORLD SINCE 1500	
HIST 38595	SPECIAL TOPICS IN THEMATIC STUDIES	
HIST 41000	INTRODUCTION TO PUBLIC HISTORY	
HIST 41032	CONSUMPTION AND MASS CULTURE IN MODERN EUROPE	
HIST 41033	WOMEN AND GENDER IN MODERN EUROPE	
HIST 41060	COMPARATIVE FASCISM	
HIST 41062	THE UNITED STATES:THE WESTWARD MOVEMENT	
HIST 41071	AMERICAN SOCIAL AND INTELLECTUAL HISTORY, 1876-PRESENT (DIVD)	
HIST 41129	THE HOLOCAUST:THE DESTRUCTION OF EUROPEAN JEWRY, 1938-1945	
HIST 42142	AFRO-LATIN AMERICA	

HIST 48897	COLLOQUIUM IN AFRICAN AMERICAN HISTORY SINCE 1877	
<b>Additional Requirements (courses do not count in major GPA)</b>		
UC 10097	DESTINATION KENT STATE: FIRST YEAR EXPERIENCE	1
Foreign Language (see Foreign Language College Requirement below)		14-16
College General Requirement (must be from Kent Core Basic Sciences) <sup>3</sup>		3
College General Requirement (must be from Kent Core Social Sciences) <sup>4</sup>		3
Kent Core Composition		6
Kent Core Mathematics and Critical Reasoning		3
Kent Core Fine Arts		3
Kent Core Social Sciences (must be from two disciplines)		6
Kent Core Basic Sciences (must include one laboratory)		6-7
Kent Core Additional		3
General Electives (total credit hours depends on earning 120 credit hours, including 42 upper-division credit hours)		36
Minimum Total Credit Hours:		120

- 1 A minimum C grade must be earned to fulfill the writing-intensive requirement.
- 2 A maximum of 3 credit hours in HIST 40092 may be earned towards the degree.
- 3 One additional course taken from the Kent Core Basic Science courses in the following Arts and Sciences disciplines: Anthropology (ANTH), Biological Sciences (BSCI), Chemistry (CHEM), Geography (GEOG), Geology (GEOL) or Physics (PHY). The course may not be from the student's major.
- 4 One additional course taken from the Kent Core Social Sciences courses in the following Arts and Sciences disciplines: Anthropology (ANTH), Geography (GEOG), Criminology and Justice Studies (CRIM), Peace and Conflict Studies (PACS), Political Science (POL), Psychology (PSYC) or Sociology (SOC). The course may not be from the student's major.

## Graduation Requirements

Minimum Major GPA	Minimum Overall GPA
2.000	2.000

## Foreign Language College Requirement

Students pursuing the Bachelor of Arts degree in the College of Arts and Sciences must complete 14-16 credit hours of foreign language.<sup>1</sup> To complete the requirement, students have the equivalent of Elementary I and II in any language, plus one of the following options:

1. Intermediate I and II of the same language<sup>2</sup>
2. Elementary I and II of a second language
3. Any combination of two courses from the following list:
  - Intermediate I of the same language
  - MCLS 10001 INTRODUCTION TO STRUCTURAL CONCEPTS FOR LANGUAGE STUDENTS
  - MCLS 20091 VARIABLE CONTENT SEMINAR IN GLOBAL LITERACY: CASE STUDIES
  - MCLS 21417 MULTICULTURALISM IN TODAY'S GERMANY (DIVG)
  - MCLS 28404 THE LATIN AMERICAN EXPERIENCE (DIVG)

- <sup>1</sup> All students with prior foreign language experience should take the foreign language placement test to determine the appropriate level at which to start. Some students may begin beyond the Elementary I level and will complete the requirement with fewer credit hours and fewer courses. This may be accomplished by (1) passing a course beyond Elementary I through Intermediate II level; (2) receiving credit through Credit by Exam (CBE), Advanced Placement (AP), International Baccalaureate (IB) or College Level Examination Program (CLEP); or (3) being designated a 'native speaker' of a non-English language (consult with the College of Arts and Sciences Advising Office for additional information). When students complete the requirement with fewer than 14 credit hours and four courses, they will complete remaining credit hours with general electives.
- <sup>2</sup> Certain majors, concentrations and minors may require specific languages, limit the languages from which a student may choose or require coursework through Intermediate II. Students who plan to pursue graduate study may need particular language coursework.

## Roadmap

This roadmap is a recommended semester-by-semester plan of study for this major. However, courses designated as critical (!) must be completed in the semester listed to ensure a timely graduation.

Semester One		Credits
UC 10097	DESTINATION KENT STATE: FIRST YEAR EXPERIENCE	1
History (HIST) Lower-Division Electives (10000 or 20000 level)		6
Foreign Language		4
Kent Core Requirement		3
Credit Hours		14
Semester Two		
!	History (HIST) Lower-Division Electives (10000 or 20000 level)	3
Foreign Language		4
Kent Core Requirement		3
Kent Core Requirement		3
Kent Core Requirement		3
Credit Hours		16
Semester Three		
!	HIST 32050 HISTORICAL RESEARCH METHODS	3
Foreign Language		3
Kent Core Requirement		3
Kent Core Requirement		3
Kent Core Requirement		3
Credit Hours		15
Semester Four		
!	Area Studies Electives	3
!	Thematic Studies Electives	3
Foreign Language		3
College General Requirement		3
Kent Core Requirement		3
Credit Hours		15
Semester Five		
!	Area Studies Electives	3
!	Thematic Studies Electives	3
College General Requirement		3
Kent Core Requirement		3
General Electives		3
Credit Hours		15
Semester Six		
!	History (HIST) Upper-Division Electives (30000 or 40000 level)	3
General Electives		12
Credit Hours		15
Semester Seven		
!	HIST 49091 SENIOR SEMINAR IN HISTORY (ELR) (WIC)	3
General Electives		12
Credit Hours		15
Semester Eight		
History (HIST) Upper-Division Electives (30000 or 40000 level)		6
General Electives		9
Credit Hours		15
Minimum Total Credit Hours:		120

Department of History  
305 Bowman Hall  
Kent Campus  
330-672-2882  
history@kent.edu  
www.kent.edu/history

## Description

The Master of Arts degree in History offers students the opportunity for advanced study in a variety of areas. Coursework emphasizes interpretation, methodology and original research. A student's program of study allows for the opportunity to conduct historical inquiry, research and analysis at the highest level. While students will be able to develop a core competence in their chosen field study, they will also study the histories of regions and times far removed from their central interests. Students may also pursue interdisciplinary work in cognate fields composed of courses in outside disciplines.

Students who anticipate continuing their graduate study beyond the M.A. should pursue one of the thesis tracks. Those who choose the thesis option, which is required of students on graduate assistantships, will produce a thesis based on original primary source research that engages a historiographically significant research question. Non-thesis options are available for those who do not expect to go on to doctoral work.

The program develops graduates who are educated scholar-citizens committed to historical empathy and in possession of critical thinking and communication skills honed by rigorous training.

The History major includes the following optional concentration:

The **History for Secondary School Teachers** concentration is for educators interested in the advanced study of history. Coursework is focused on current scholarship and approaches to history. While the concentration's focus is not in history pedagogy, it is designed to encourage the application of current historical scholarship to the work responsibilities of the practicing teacher. The program provides school professionals with a structured but flexible approach to analyzing and teaching history while permitting interdisciplinary work in related fields or areas particularly relevant to students' professional objectives.

## Fully Offered At:

- Kent Campus

## Admission Requirements

- Bachelor's degree in History from an accredited college or university for unconditional admission<sup>1</sup>
- Minimum 3.000 undergraduate GPA on a 4.000 point scale for unconditional admission
- Official transcript(s)
- GRE scores
- Goal statement describing professional objectives and proposed field of study
- Significant piece of written work (Effective Spring 2021: Significant piece of written work that integrates primary and secondary sources)
- Three letters of recommendation (preferably academic)

## History - M.A.

College of Arts and Sciences



- English language proficiency - all international students must provide proof of English language proficiency (unless they meet specific exceptions) by earning one of the following:
  - Minimum 550 TOEFL PBT score (paper-based version)
  - Minimum 79 TOEFL IBT score (Internet-based version)
  - Minimum 77 MELAB score
  - Minimum 6.5 IELTS score
  - Minimum 58 PTE score
  - Minimum 110 Duolingo test score

For more information about graduate admissions, please visit the Graduate Studies admission website. For more information on international admission, visit the Office of Global Education's admission website.

<sup>1</sup> Effective Spring 2021  
 Students who have not earned a Bachelor of Arts in history are eligible to apply for unconditional admission if they have completed 12 credit hours of upper-division history courses (with a minimum GPA of 3.30).

## Program Learning Outcomes

Graduates of this program will be able to:

- Analyze primary sources (texts, artifacts, images); locate, assess and analyze primary sources and incorporate those sources into original historical research projects with a high level of proficiency.
- Conceptualize, research and write book reviews, annotated bibliographical essays, historiographical essays and research papers.
- Dissect secondary sources in a variety of areas of historical specialization, and participate actively and positively in class discussions of those sources.
- Understand that interpretation is one of the foundations of graduate-level study in the discipline, and offer their own interpretations of work both orally and in writing.

## Program Requirements

### Major Requirements

Code	Title	Credit Hours
<b>Major Requirements</b>		
HIST 61002	HISTORIOGRAPHY	3
	Seminars and Colloquia in History <sup>1</sup>	9
<b>Additional Requirements or Concentrations <sup>2</sup></b>		
	Choose from the following:	18
	Additional Requirements for Students Not Declaring a Concentration	
	History for Secondary School Teachers Concentration	
Minimum Total Credit Hours:		30

- Students must complete at least one research seminar (HIST 61070) no matter their specific program choice.
- Students can count no more than 3 credit hours of HIST 60092 toward their degree no matter their specific program choice.

## Additional Requirements for Students Not Declaring a Concentration

Code	Title	Credit Hours
<b>Thesis or Non-Thesis option, choose from the following:</b>		
<i>Thesis option <sup>1</sup></i>		
HIST 69199	THESIS I	
History (HIST) Electives <sup>2</sup>		
<i>Non-Thesis option</i>		
HIST 69399	CAPSTONE IN HISTORY	
History (HIST) Electives <sup>3</sup>		
Minimum Total Credit Hours:		18

- Students selecting the thesis option must demonstrate a reading knowledge of one or more foreign languages if their advisers determine that it is necessary for research.
- Students may elect to take two graduate-level courses in fields outside of history. Students who choose to pursue outside field coursework must take history graduate courses in two of the following three areas: American history, European history, and global history (non-Western). Students who do not take outside field coursework must complete 12 credit hours of graduate coursework in history and they must include coursework in each of the following areas: American history, European history, and global history (non-Western).
- Students may elect to take two graduate-level courses in disciplines outside of history. Students who choose to pursue outside discipline course work must take history graduate courses in two of the following three areas: American history, European history, and global history (non-Western). Students who do not take outside discipline coursework must complete 15 credit hours of graduate coursework in history and they must include coursework in each of the following areas: American history, European history, and global history (non-Western).

## History for Secondary School Teachers Concentration Requirements

Code	Title	Credit Hours
HIST 69499	INTERDISCIPLINARY PROJECT IN HISTORY	3,6
History (HIST) Electives <sup>1</sup>		
Education Electives <sup>2</sup>		
Minimum Total Credit Hours:		18

- Electives are to be approved by faculty advisor and may include courses from other disciplines, if appropriate. Maximum 3 credit hours of pre-approved workshops for teachers.
- Approved electives for the History for Secondary School Teachers Concentration include C&I 50093, C&I 57503, C&I 61125, C&I 61126, C&I 61127, C&I 67001, C&I 67095, and C&I 67105. Students may petition the Graduate Coordinator to count other courses in pedagogy, regardless of department, toward the electives for this concentration.

## Graduation Requirements

Course grades help to measure student performance. Only work of B grade or better is considered 'passing' at the graduate level. Any students whose grades are deficient are dismissed. The culmination of

the program's writing component for those students intending to go on to doctoral work is the completion of a substantial thesis based on original primary-source research and the oral defense of that thesis.

## History - Minor

### College of Arts and Sciences

Department of History

305 Bowman Hall

Kent Campus

330-672-2882

history@kent.edu

www.kent.edu/history

## Description

The History minor offers an overview of the majors themes and developments in history and provides an opportunity to develop the ability to read analytically, think critically, and write effectively. A minor in history is an excellent complement to many of the degree programs offered at the university.

### Fully Offered At:

- Kent Campus
- Stark Campus

## Admission Requirements

Admission to a minor is open to students declared in a bachelor's degree, the A.A.B. or A.A.S. degree or the A.T.S. degree (not Individualized Program major). Students declared only in the A.A. or A.S. degree or the A.T.S. degree in Individualized Program may not declare a minor. Students may not pursue a minor and a major in the same discipline.

## Minor Requirements

Code	Title	Credit Hours
<b>Minorr Requirements (courses count in major GPA)</b>		
History (HIST) Lower-Division Electives (10000 or 20000 level), choose from the following:		9
HIST 11050	WORLD HISTORY: ANCIENT AND MEDIEVAL (DIVG) (KHUM)	
HIST 11051	WORLD HISTORY: MODERN (DIVG) (KHUM)	
HIST 12070	EARLY AMERICA: FROM PRE-COLONIZATION TO CIVIL WAR AND RECONSTRUCTION (DIVD) (KHUM)	
HIST 12071	MODERN AMERICA: FROM INDUSTRIALIZATION TO GLOBALIZATION (DIVD) (KHUM)	
Area Studies Electives, choose from the following:		6
HIST 31022	THE GREAT POWERS IN WAR AND PEACE, 1792-1914	
HIST 31027	HISTORY OF ENGLAND TO 1688	
HIST 31028	ENGLAND SINCE 1688	
HIST 31032	SEVENTEENTH-CENTURY EUROPE	
HIST 31036	THE TWENTIETH CENTURY WORLD	
HIST 31040	AMERICAN HISTORY THROUGH POPULAR MUSIC	
HIST 31050	HISTORY AND SOCIETY OF MODERN GREECE	

HIST 31055	POLITICS, CULTURE AND SOCIETY OF 20TH-CENTURY EUROPE	
HIST 31052	HISTORY OF MODERN FRANCE	
HIST 31053	MODERN EUROPE, 1815 TO PRESENT	
HIST 31056	EUROPE IN THE RENAISSANCE	
HIST 31061	HISTORY OF OHIO	
HIST 31082	HISTORY OF THE CIVIL RIGHTS AND BLACK POWER MOVEMENTS IN THE UNITED STATES	
HIST 31087	SECTIONAL CONFLICT AND CIVIL WAR	
HIST 31100	RECONSTRUCTION AND THE LATER SOUTH	
HIST 31106	PROGRESSIVE AMERICA: THE UNITED STATES, 1896-1919	
HIST 31107	NEW ERA THROUGH WORLD WAR: THE UNITED STATES, 1920-1945	
HIST 31108	RECENT AMERICA: THE UNITED STATES, 1945-PRESENT	
HIST 31112	CHINESE CIVILIZATION	
HIST 31113	HISTORY OF JAPAN	
HIST 31115	INDIA SINCE 1526	
HIST 31123	HISTORY OF POST COLONIAL AFRICA	
HIST 31126	HISTORY OF THE MIDDLE EAST	
HIST 31130	HISTORY OF PRE-COLONIAL AFRICA TO 1880	
HIST 31140	MODERN LATIN AMERICA (DIVG)	
HIST 31141	EARLY LATIN AMERICA	
HIST 37001	FLORENCE THE MYTH OF A CITY	
HIST 38495	SPECIAL TOPICS IN AREA STUDIES	
HIST 40197	AMERICAN CULTURAL HERITAGE:THE ARTS AND SOCIETY	
HIST 41006	ROMAN HISTORY	
HIST 41010	THE EARLY MIDDLE AGES	
HIST 41011	THE HIGH MIDDLE AGES	
HIST 41020	NINETEENTH-CENTURY EUROPE	
HIST 41024	MODERN EUROPEAN HISTORY, 1914-1945	
HIST 41025	MODERN EUROPEAN HISTORY:1945-PRESENT	
HIST 41041	HISTORY OF GERMANY, 1871-PRESENT	
HIST 41044	IMPERIAL RUSSIA, 1689-1917	
HIST 41045	MODERN RUSSIA, 1917-PRESENT	
HIST 41056	HISTORY OF COLONIAL AMERICA:1492-1714 (DIVD)	
HIST 41057	EIGHTEENTH-CENTURY AMERICA:1714-1789 (DIVD)	
HIST 41058	JEFFERSON-JACKSON ERA, 1789-1848	
HIST 41077	THE GREAT DEPRESSION IN AMERICA	
HIST 41085	THE SIXTIES IN AMERICA	
HIST 41112	HISTORY OF MODERN CHINA	
HIST 41132	HISTORY OF COLONIAL AFRICA, 1880-1994	
HIST 41789	THE FRENCH REVOLUTION AND NAPOLEON	
HIST 42297	COLLOQUIUM:CHINA AND JAPAN (WIC)	
HIST 43797	COLLOQUIUM ON VICTORIAN ENGLAND (WIC)	
HIST 48697	COLLOQUIUM:U.S. MIDDLE PERIOD, 1820-1900 (WIC)	
Thematic Studies Electives, choose from the following:		6
HIST 31020	POLIS TO METROPOLIS: HISTORY OF THE EUROPEAN CITY	
HIST 31024	WORLD WAR II	
HIST 31030	NATO:THE ENDURING ALLIANCE	
HIST 31031	THE PROTESTANT AND CATHOLIC REFORMATIONS	

HIST 31033	WITCHES AND EUROPEAN HISTORY, 1500-1800
HIST 31035	THE GLOBAL COLD WAR
HIST 31041	SPORT HISTORY IN THE UNITED STATES
HIST 31045	A HISTORY OF CRIME IN THE UNITED STATES
HIST 31071	US FOREIGN RELATIONS THROUGH 1898
HIST 31072	US FOREIGN RELATIONS, 1898-1945
HIST 31073	US FOREIGN RELATIONS SINCE 1945
HIST 31074	HISTORY OF ESPIONAGE: FROM JOSHUA TO EDWARD SNOWDEN
HIST 31075	HISTORY OF WOMEN IN THE UNITED STATES
HIST 31077	HISTORY OF SEXUALITY IN THE UNITED STATES
HIST 31080	AFRICAN AMERICAN HISTORY: SLAVERY TO FREEDOM
HIST 31083	THE HISTORY OF WHITENESS IN THE UNITED STATES
HIST 31101	WAR AND SOCIETY IN THE UNITED STATES FROM 1607 THROUGH 1865
HIST 31102	WAR AND SOCIETY IN THE UNITED STATES FROM 1865 TO THE PRESENT
HIST 31104	MIGRATIONS TO AMERICA, 1607 TO PRESENT
HIST 31114	TRADITION AND REVOLUTION IN SOUTHEAST ASIA
HIST 31118	VIETNAM WAR
HIST 31119	THE SIXTIES: A THIRD WORLD VIEW
HIST 31120	COMPARATIVE THIRD WORLD REVOLUTIONS
HIST 31124	HIGHLIFE HISTORIES: MODERN AFRICAN URBAN EXPERIENCE
HIST 31127	ANCIENT AND EARLY MEDIEVAL JEWISH HISTORY
HIST 31128	LATE MEDIEVAL AND MODERN JEWISH HISTORY
HIST 31500	FOUNDATIONS IN THE HISTORY AND PHILOSOPHY OF SCIENCE
HIST 31543	THE SCIENTIFIC REVOLUTION
HIST 31550	MEDICINE IN THE MODERN WORLD SINCE 1500
HIST 38595	SPECIAL TOPICS IN THEMATIC STUDIES
HIST 41000	INTRODUCTION TO PUBLIC HISTORY
HIST 41032	CONSUMPTION AND MASS CULTURE IN MODERN EUROPE
HIST 41033	WOMEN AND GENDER IN MODERN EUROPE
HIST 41060	COMPARATIVE FASCISM
HIST 41062	THE UNITED STATES:THE WESTWARD MOVEMENT
HIST 41071	AMERICAN SOCIAL AND INTELLECTUAL HISTORY, 1876-PRESENT (DIVD)
HIST 41129	THE HOLOCAUST:THE DESTRUCTION OF EUROPEAN JEWRY, 1938-1945
HIST 42142	AFRO-LATIN AMERICA

Minimum Total Credit Hours: 21

## Graduation Requirements

Minimum Minor GPA	Minimum Overall GPA
2.000	2.000

- Students must complete at least two upper-division (30000 or 40000 level) courses in the minor at Kent State on a graded basis (A-F).

- Students can only count a course in one elective list, even though the course may appear in more than one list.
- Minimum 6 credit hours in the minor must be upper-division coursework (30000 and 40000 level).
- Minimum 6 credit hours in the minor must be outside of the course requirements for any major or other minor the student is pursuing.
- Minimum 50 percent of the total credit hours for the minor must be taken at Kent State (in residence).

## History - Ph.D.

### College of Arts and Sciences

Department of History  
305 Bowman Hall  
Kent Campus  
330-672-2882  
history@kent.edu  
www.kent.edu/history

## Description

The Ph.D. degree in History prepares students to become professional scholars, college and university teachers and independent researchers in private or public research institutions.

### Fully Offered At:

- Kent Campus

## Admission Requirements

- Master's degree from an accredited college or university in history or related discipline for unconditional admission
- Minimum 3.000 GPA on a 4.000 point scale for unconditional admission
- Official transcript(s)
- GRE scores
- Goal statement describing professional objectives and proposed field of study
- Significant piece of written work;
- Three letters of recommendation (preferably academic)
- English language proficiency - all international students must provide proof of English language proficiency (unless they meet specific exceptions) by earning one of the following:
  - Minimum 550 TOEFL PBT score (paper-based version)
  - Minimum 79 TOEFL IBT score (Internet-based version)
  - Minimum 77 MELAB score
  - Minimum 6.5 IELTS score
  - Minimum 58 PTE score
  - Minimum 110 Duolingo test score

For more information about graduate admissions, please visit the Graduate Studies admission website. For more information on international admission, visit the Office of Global Education's admission website.

## Program Learning Outcomes

Graduates of this program will be able to:

1. Dissect secondary sources in a variety of areas of historical specialization and participate actively and positively in discussions of those sources.
2. Construct effective and analytical book reviews, comparative review essays and historiographical pieces with a high level of proficiency, particularly when it comes to integrating various historical works together into an analytical/argumentative whole.
3. Form their own judgements about secondary historical works and the historiographical field of which they are part.
4. Analyze primary sources (texts, artifacts, images) in a sophisticated manner; and integrate these sources with secondary sources in order to make an original historical argument.
5. Demonstrate an ability to conceptualize; research; and write book reviews, annotated bibliographical essays, historiographical essays and seminar papers.

## Program Requirements

### Major Requirements

Code	Title	Credit Hours
<b>Major Requirements</b>		
HIST 71005	TEACHING WORLD HISTORY	3
HIST 89199	DISSERTATION I <sup>1</sup>	30
History (HIST) Electives <sup>2, 3</sup>		18
Electives in Discipline or Research Area <sup>3</sup>		9
Minimum Total Credit Hours:		60

<sup>1</sup> Each doctoral candidate, upon admission to candidacy, must register for HIST 89199 for a total of 30 credit hours. It is expected that a doctoral candidate will continuously register for Dissertation I, and thereafter HIST 89299, each semester, until all requirements for the degree have been met.

<sup>2</sup> Must include four seminars/colloquia; must include coursework in the candidate's field of study.

<sup>3</sup> Students will elect one general, one specialized and one thematic or outside field. General fields include Asia, Africa, Europe, Latin America and United States. Specialized fields include topical and regional areas of Europe and the United States, public history, and gender/women. Either the general or the specialized field must be the field embracing the dissertation. A thematic field must combine two different continents, or the modern period and a chronological period before 1500, and revolve around a common theme. Thematic fields include political/intellectual, social/cultural, empire/foreign relations and religion and society. All students must elect additional courses in a discipline or research area related to history that will be useful in completing their dissertations.

### Graduation Requirements

- All students must demonstrate reading knowledge of a foreign language.
- Course grades help to measure student performance. Only work of B grade or better is considered 'passing' at the graduate level. Any students whose grades are deficient are dismissed.

### Candidacy

After completing all of the requirements, students must successfully complete written and oral examinations in the three elected fields of history.

## Department of Mathematical Sciences

### College of Arts and Sciences

Department of Mathematical Sciences  
233 Mathematics and Computer Science Building  
Kent Campus  
330-672-2430  
math@math.kent.edu  
www.kent.edu/math

## Undergraduate Programs

- Actuarial Mathematics - B.S.
- Applied Mathematics - B.S.
- Mathematics - B.A.
- Mathematics - B.S.

## Minors

- Applied Mathematics
- Applied Statistics
- Mathematics

## Graduate Programs

- Applied Mathematics - M.A.
- Applied Mathematics - M.S.
- Applied Mathematics - Ph.D.
- Mathematics for Secondary Teachers - M.A.
- Pure Mathematics - M.A.
- Pure Mathematics - M.S.
- Pure Mathematics - Ph.D.

## Department of Mathematical Sciences Faculty

- Adams, Lynn (2007), Senior Lecturer, M.S., University of Akron, 2007
- Ahuja, Om P. (2000), Professor, Ph.D., University of Khartoum, 1981
- Alexopoulos, John K. (1994), Associate Professor, Ph.D., Kent State University, 1992
- Allouba, Hassan A. (2002), Associate Professor, Ph.D., Cornell University, 1996
- Altobelli, Joseph A. (1997), Associate Professor, Ph.D., The Ohio State University, 1996
- Andaloro, Paul J. (1994), Assistant Professor, Ph.D., The Ohio State University, 1989
- Andriyevskyy, Volodymyr (2000), Professor, Ph.D., Institute of Mathematics of Ukrainian Academy of Sciences, 1986
- Barb, Cynthia M. (1990), Associate Professor, Ph.D., Kent State University, 1997
- Chebotar, Mikhail (2006), Professor, Ph.D., Moscow State University, 1999
- Das, Lovejoy S. (1989), Professor, Ph.D., University of Lucknow, 1979
- Davidson, Morley A. (1996), Associate Professor, Ph.D., University of Michigan, 1995
- de la Cruz Cabrera, Omar (2016), Assistant Professor
- Del Pizzo, Lawrence F. (1969), Assistant Professor, M.A., Kent State University, 1969
- Dhafer, Yaser Y. (1989), Professor, Ph.D., Kent State University, 2007
- Di Alesandro, Jack J. (1983), Associate Lecturer, M.Ed., Kent State University, 1989
- Dinh, Hai Q. (2004), Professor, Ph.D., Ohio University, 2003
- Feng, Bao Q. (1996), Associate Professor, Ph.D., Kent State University, 2001
- Gagola, Stephen M. (1982), Professor, Ph.D., University of Wisconsin, Madison, 1974
- Gordon, Peter (2017), Associate Professor, Ph.D., Moscow University, 1999
- He, Min (1995), Professor
- Heinbach, Charles C. (1978), Senior Lecturer, B.A., Kent State University, 1977
- Hovhannisyan, Gro (2003), Professor, Ph.D., Yerevan State University, 1990
- Hrubik-Vulanovic, Tatjana (2002), Assistant Professor, Ph.D., Kent State University, 2013
- Jahangiri, Jay M. (1994), Professor, Ph.D., University of York, 1986
- Kasturiarachi, Aloysius Bathi B. (1995), Associate Professor
- Khan, Mohammad K. (1981), Professor, Ph.D., Case Western Reserve University, 1980
- Kover, Janice S. (1996), Associate Professor, Ph.D., Kent State University, 2001
- Kracht, Darci L. (1984), Professor, Ph.D., Kent State University, 2011
- Kratky, Joseph J. (2005), Lecturer, M.S., Kent State University, 2011
- Laux, Tracy A. (1990), Senior Lecturer, B.S., Kent State University, 1990
- Lewis, Mark L. (1996), Professor, Ph.D., University of Wisconsin, Madison, 1995
- Li, Jing (2003), Associate Professor, Ph.D., New York University, 2002
- Li, Jun (2013), Associate Professor, Ph.D., Iowa State University, 2013
- Lochmueller, Kerri K. (2005), Lecturer, M.S., Youngstown State University, 2008
- Meyer, Lorree L. (1994), Associate Lecturer, B.S., Kent State University, 1993
- Mikusa, Michael (1987), Associate Professor, Ph.D., Kent State University, 1993
- Mocioalca, Oana (2004), Associate Professor, Ph.D., University of Florida, 2002
- Muckridge, Nicole A. (2007), Associate Professor, Ph.D., Kent State University, 2017
- Mulqueeny, Ellen S. (2005), Associate Professor, M.S., Cleveland State University, 1993
- Najafi, Mahmoud (1995), Professor, Ph.D., Wichita State University, 1994
- Nazarov, Fedor L. (2011), Professor
- Osikiewicz, Beth-Allyn (1994), Associate Professor, Ph.D., Kent State University, 2000
- Osikiewicz, Jeffrey A. (1990), Associate Professor, Ph.D., Kent State University, 1997
- Palocy, Frank J. (1991), Lecturer
- Perera, Vicumpriya S. (1998), Associate Professor, Ph.D., Purdue University, 1993
- Pham, Tuyet D. (1988), Senior Lecturer, M.S., University of Akron, 1988
- Polanski, Teresa S. (1987), Senior Lecturer, M.A.T., Kent State University, 1994
- Rajagopal, Parthasarathy (1987), Assistant Professor, Ph.D.
- Rajaram, Rajeev (2008), Associate Professor, Ph.D., Iowa State University, 2005
- Reed, Beverly M. (1986), Professor, Ph.D., Kent State University, 2007
- Reichel, Lothar (1991), Professor, Ph.D., University of Stockholm, 1982
- Ruchotzke, Randy L. (1994), Lecturer, M.A., Iowa State University, 1986
- Ruff, Oliver (2009), Associate Professor, Ph.D., University of Oregon, 2002



- Ryabogin, Dmitry (2007), Professor, Ph.D., University of Jerusalem, 2001
- Sharp, Mary Theresa L. (1997), Associate Professor, Ph.D., Kent State University, 2014
- Smithies, Laura A. (1997), Associate Professor, Ph.D., University of Utah, 1997
- Soprunova, Evgenia (2007), Associate Professor, Ph.D., University of Toronto, 2002
- Stadden, Jared M. (2013), Lecturer, M.B.A., Kent State University, 2012
- Taha, Nader F. (1990), Associate Lecturer, M.S., Tennessee State University, 1989
- Tonge, Andrew M. (1985), Professor & Department Chair, Ph.D., University of Cambridge, 1976
- Trehan, Dawn M. (2019), Assistant Professor, M.S., Case Western Reserve, 1996
- Tsai, Tsung-Heng (2019), Assistant Professor
- Vezvaei, Mahbobeh (1983), Professor, Ph.D., Case Western Reserve University, 1987
- Vorhauer, Ulrike M. (2001), Associate Professor, Ph.D., University of Ulm, 1996
- Vulcanovic, Relja (1992), Professor, Ph.D., University of Novi Sad, 1986
- Wakita, Hideki (1998), Senior Lecturer, M.A., Kent State University, 2002
- Wallach, Tracy A. (1984), Senior Lecturer, M.Ed., Kent State University, 1989
- Wei, Zhaoting (2016), Assistant Professor, Ph.D., University Of Pennsylvania, 2013
- White, Donald L. (1989), Professor, Ph.D., Yale University, 1987
- Wright, Brian M. (1998), Associate Professor, Ph.D., Kent State University, 2007
- Yu, Gang (2006), Associate Professor, Ed.D., University of Georgia, 2000
- Zheng, Xiaoyu (2006), Associate Professor, Ph.D., University of North Carolina, Chapel Hill, 2006
- Zvavitch, Artem (2004), Professor, Ph.D., Weizmann Institute of Science, 2002

## Mathematics (MATH)

### MATH 00020 PRE-ALGEBRA 2 Credit Hours

Course covers properties of whole numbers, fractions, decimals, percents, signed numbers and order of operations. Mental math and elementary algebraic thinking skills are emphasized. Use of calculators is not allowed. Course does not count toward graduation.

**Prerequisite:** 0-9 ALEKS math score.

**Schedule Type:** Emporium

**Contact Hours:** 2 other

**Grade Mode:** Standard Letter

### MATH 00021 BASIC ALGEBRA I 2 Credit Hours

Course includes operations on integers, fractions, decimals and percents, and properties of real numbers. Introduction to variables, first degree equations and problem-solving with formulas. Equations and inequalities in one variable, linear equations, rate of change and slope, graphing in the cartesian plane. Course does not count toward graduation.

**Prerequisite:** Minimum 10 ALEKS math score.

**Pre/corequisite:** MATH 00020 with a minimum C grade.

**Schedule Type:** Emporium

**Contact Hours:** 2 other

**Grade Mode:** Standard Letter

### MATH 00022 BASIC ALGEBRA II 2 Credit Hours

Introduction to functions, systems of linear equations, exponents, polynomial operations, scientific notation. Factoring polynomials, solving quadratics by factoring, radicals and rational exponents. Course does not count toward graduation.

**Prerequisite:** Minimum 25 ALEKS math score; or MATH 00021 with a minimum C grade.

**Schedule Type:** Emporium

**Contact Hours:** 2 other

**Grade Mode:** Standard Letter

### MATH 00095 SPECIAL TOPICS IN MATHEMATICS 1-4 Credit Hours

(Repeatable for credit) Topics in mathematics not covered in regular courses. Offered when opportunities and resources permit; the topic is announced when the course is scheduled. Course does not count toward graduation.

**Prerequisite:** None.

**Schedule Type:** Emporium

**Contact Hours:** 1-4 other

**Grade Mode:** Standard Letter

### MATH 10040 INTRODUCTORY STATISTICS PLUS (KMCR) 5 Credit Hours

(Equivalent to MATH 10041) An introduction to statistical thinking and statistical methods with a review of basic algebra. Emphasis is on statistical literacy, conceptual understanding and active learning in the classroom. This course also provides just-in-time remediation to help students achieve the same learning outcomes as MATH 10041. No credit earned for this course if a student already earned credit for MATH 10041.

**Prerequisite:** ALEKS Math score between 25 and 34; or MATH 00021 with a minimum C grade.

**Schedule Type:** Lecture

**Contact Hours:** 5 lecture

**Grade Mode:** Standard Letter

**Attributes:** Kent Core Mathematics and Critical Reasoning, TAG Mathematics, Transfer Module Mathematics

### MATH 10041 INTRODUCTORY STATISTICS (KMCR) 4 Credit Hours

(Equivalent to MATH 10040) An introduction to statistical thinking and statistical methods. Emphasis is on statistical literacy, conceptual understanding and active learning in the classroom. No credit earned for this course if a student already earned credit for MATH 10040.

**Prerequisite:** Minimum 22 ACT math score; or minimum 530 SAT math score; or minimum 35 ALEKS Math score; or MATH 00022 with a minimum C grade; or any higher level MATH course.

**Schedule Type:** Emporium

**Contact Hours:** 4 other

**Grade Mode:** Standard Letter

**Attributes:** Kent Core Mathematics and Critical Reasoning, Transfer Module Mathematics

**MATH 10050 QUANTITATIVE REASONING PLUS (KMCR) 5 Credit Hours**

(Equivalent to MATH 10051) In the broadest sense mathematics should provide students the needed quantitative tools, logical reasoning and problem-solving skills, and a sense that quantitative modeling can be used to describe and understand developments in many areas of daily living. Since critical thinking is the primary objective and outcome for our course, in each area of concentration (numeracy, mathematical modeling, and probability and statistics) students will need to read and glean information from the problem situation, convert the information into a usable form, perform any needed routine calculations, make or draw a conclusion, and then communicate the result via explanation using quantitative reasoning by writing coherent statements and paragraphs. This course also provides just-in-time remediation to help students achieve the same learning outcomes as MATH 10051.

**Prerequisite:** ALEKS Math score between 25 and 34; or MATH 00021 with a minimum C grade.

**Schedule Type:** Lecture

**Contact Hours:** 5 lecture

**Grade Mode:** Standard Letter

**Attributes:** Kent Core Mathematics and Critical Reasoning, TAG Mathematics, Transfer Module Mathematics

**MATH 10051 QUANTITATIVE REASONING (KMCR) 4 Credit Hours**

(Equivalent to MATH 10050) In the broadest sense, mathematics should provide students the needed quantitative tools, logical reasoning and problem solving skills, and a sense that quantitative modeling can be used to describe and understand developments in many areas of daily living. Since critical thinking is the primary objective and outcome for this course, in each area of concentration (numeracy, mathematical modeling and probability and statistics), students will read and glean information from the problem situation, convert the information into a usable form, perform any needed routine calculations, make or draw a conclusion, and then communicate the result via explanation using quantitative reasoning by writing coherent statements and paragraphs.

**Prerequisite:** Minimum 22 ACT math score; or minimum 530 SAT math score; or minimum 35 ALEKS Math score; or MATH 00022 with a minimum C grade; or any higher level MATH course.

**Schedule Type:** Lecture

**Contact Hours:** 4 lecture

**Grade Mode:** Standard Letter

**Attributes:** Kent Core Mathematics and Critical Reasoning

**MATH 10675 ALGEBRA FOR CALCULUS BOOST (KMCR) 5 Credit Hours**

(Equivalent to MATH 10775 and MATH 11010) Course includes an extensive and rich immersion into the structure of functions. Routine analysis includes discussion of domain, range, zeros, general function behavior (increasing, decreasing, extrema, etc.). Operations with functions, including addition, subtraction, multiplication, division, composition and inversion. Functions are studied as a tool to analyze rates of change in real-world scenarios. The emphasis is on linear, polynomial, exponential and rational functions, with an extensive problem-solving component. A two-week review of intermediate algebra skills is included in the course, as is extra time studying quadratic functions, absolute value functions, systems of equations and extended time on logarithms.

**Prerequisite:** Minimum 22 ACT math score; or minimum 530 SAT math score; or ALEKS math score between 35-44; or MATH 00022 with a minimum C grade.

**Schedule Type:** Lecture

**Contact Hours:** 5 lecture

**Grade Mode:** Standard Letter

**Attributes:** Kent Core Mathematics and Critical Reasoning

**MATH 10771 BASIC MATHEMATICAL CONCEPTS I PLUS (KMCR) 5 Credit Hours**

(Equivalent to MATH 14001) Course covers the development of the real-number system and its sub-systems, open sentences, numeration systems, modular arithmetic and some number theory concepts. Additional concepts covered include place value, logic, sets, algebra concepts and problem solving.

**Prerequisite:** Minimum 35 ALEKS math score; or minimum 22 ACT math score; or minimum 530 SAT math score; or MATH 00022 with a minimum C grade.

**Schedule Type:** Lecture

**Contact Hours:** 5 lecture

**Grade Mode:** Standard Letter

**Attributes:** Kent Core Mathematics and Critical Reasoning

**MATH 10772 MODELING ALGEBRA PLUS (KMCR) 5 Credit Hours**

(Equivalent to MATH 11009) Study of algebra arising in the context of real-world applications, including linear, polynomial, exponential and logarithmic models. Includes a review of factoring and functions. Course is intended for students not planning to take calculus. No credit earned toward a degree for this course if student already earned credit for MATH 11010.

**Prerequisite:** Minimum 35 ALEKS math score; or minimum 22 ACT math score; or minimum 530 SAT math score; or MATH 00022 with a minimum C grade.

**Schedule Type:** Lecture

**Contact Hours:** 5 lecture

**Grade Mode:** Standard Letter

**Attributes:** Kent Core Mathematics and Critical Reasoning

**MATH 10775 ALGEBRA FOR CALCULUS PLUS (KMCR) 4 Credit Hours**

(Equivalent to MATH 10675 or MATH 10775 or MATH 11010) Course includes an extensive and rich immersion into the structure of functions. Routine analysis includes discussion of domain, range, zeros, general function behavior (increasing, decreasing, extrema, etc.). Operations with functions, including addition, subtraction, multiplication, division, composition and inversion. Functions are studied as a tool to analyze rates of change in real-world scenarios. The emphasis is on linear, polynomial, exponential and rational functions, with an extensive problem-solving component. Skill review is included in the course, as is time studying quadratic functions, absolute value functions, systems of equations and extended time on logarithms.

**Prerequisite:** ALEKS math score between 45 and 54; or MATH 10772 with a minimum C grade.

**Schedule Type:** Lecture

**Contact Hours:** 4 lecture

**Grade Mode:** Standard Letter

**Attributes:** Kent Core Mathematics and Critical Reasoning

**MATH 11008 EXPLORATIONS IN MODERN MATHEMATICS (KMCR) 3 Credit Hours**

Topics from various branches of mathematics will be chosen to introduce the student to the wide varieties of ways in which mathematics affects everyday life.

**Prerequisite:** Minimum 35 ALEKS math score; or minimum 22 ACT math score; or MATH 00022 or any higher MATH course with a minimum C grade.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Kent Core Mathematics and Critical Reasoning

**MATH 11009 MODELING ALGEBRA (KMCR) 4 Credit Hours**

(Equivalent to MATH 10772) Study of algebra arising in the context of real-world applications, including linear, polynomial, exponential and logarithmic models. Intended for students not planning to take calculus. No credit earned toward a degree for this course if the student already earned credit for MATH 11010.

**Prerequisite:** Minimum 45 ALEKS math score.

**Schedule Type:** Lecture

**Contact Hours:** 4 lecture

**Grade Mode:** Standard Letter

**Attributes:** Kent Core Mathematics and Critical Reasoning

**MATH 11010 ALGEBRA FOR CALCULUS (KMCR) 3 Credit Hours**

(Equivalent to MATH 10675 and MATH 10775) Course includes an extensive and rich immersion into the structure of functions. Routine analysis includes discussion of domain, range, zeros, general function behavior (increasing, decreasing, extrema, etc.). Operations with functions, including addition, subtraction, multiplication, division, composition and inversion. Functions are studied as a tool to analyze rates of change in real-world scenarios. Emphasis is on linear, polynomial, exponential and rational functions, with an extensive problem-solving component.

**Prerequisite:** Minimum 55 ALEKS math score; or MATH 10772 or MATH 11009 with a minimum B grade.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Kent Core Mathematics and Critical Reasoning, Transfer Module Mathematics

**MATH 11012 INTUITIVE CALCULUS (KMCR) 3 Credit Hours**

Course is designed to give an overview of differential and integral calculus to business and life-science majors. Course does not include trigonometric functions. No credit earned toward a degree for this course if the student already earned credit for MATH 12002.

**Prerequisite:** Minimum 67 ALEKS math score; or minimum C grade in MATH 10675 or MATH 10775 or MATH 11010.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Kent Core Mathematics and Critical Reasoning, Transfer Module Mathematics

**MATH 11022 TRIGONOMETRY (KMCR) 3 Credit Hours**

Solution of triangles, trigonometric equations and identities.

**Prerequisite:** Minimum 67 ALEKS math score; or minimum C grade in MATH 10675 or MATH 10775 or MATH 11010.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Kent Core Mathematics and Critical Reasoning, Transfer Module Mathematics

**MATH 12002 ANALYTIC GEOMETRY AND CALCULUS I (KMCR) 5 Credit Hours**

Concepts of limit, continuity and derivative, and the indefinite and definite integral for functions of one real variable. Maximization, related rates, fundamental theorem of calculus. No credit earned toward a degree for this course if the student already earned credit for MATH 12011 and MATH 12012.

**Prerequisite:** Minimum 78 ALEKS math score; or MATH 11022 with a minimum C grade.

**Schedule Type:** Lecture

**Contact Hours:** 5 lecture

**Grade Mode:** Standard Letter

**Attributes:** Kent Core Mathematics and Critical Reasoning, Transfer Module Mathematics

**MATH 12003 ANALYTIC GEOMETRY AND CALCULUS II 5 Credit Hours**

Continued study of techniques and applications of integration; trigonometric, logarithmic and exponential functions; polar coordinates; vectors; parametric equations; sequences and series.

**Prerequisite:** MATH 12002 or MATH 12012 with a minimum C grade.

**Schedule Type:** Lecture

**Contact Hours:** 5 lecture

**Grade Mode:** Standard Letter

**Attributes:** Transfer Module Mathematics

**MATH 12011 CALCULUS WITH PRECALCULUS I (KMCR) 3 Credit Hours**

Introduction to differential calculus with a review of algebra and trigonometry. Includes exponents, factoring, functions, graphs, tangent lines, limits, continuity, derivatives and related rates. No credit earned toward a degree for this course if the student already earned credit for MATH 12002.

**Prerequisite:** Minimum 67 ALEKS math score.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Kent Core Mathematics and Critical Reasoning, Transfer Module Mathematics

**MATH 12012 CALCULUS WITH PRECALCULUS II (KMCR) 3 Credit Hours**

Development of integral calculus and continued study of differential calculus. Includes curve sketching optimization fundamental theorem of calculus areas between curves, exponential and logarithmic functions. No credit earned toward a degree for this course if student already earned credit for MATH 12002.

**Prerequisite:** MATH 12011 with a minimum C grade.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Kent Core Mathematics and Critical Reasoning, Transfer Module Mathematics

**MATH 12013 BRIEF CALCULUS II 3 Credit Hours**

This is a condensed version of MATH 12003 to meet the needs of majors that do not require the full force of Math 12003. The course starts with integration by parts, approximating integrals, and applications of integrals. It follows with a brief introduction to series, parametric equations and polar coordinates, and finishes with vectors and geometry of space. No credit earned toward a degree for this course if student already earned credit for MATH 12003.

**Prerequisite:** Minimum C grade in MATH 12002 or MATH 12012 or MATH 12021.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MATH 12021 CALCULUS FOR LIFE SCIENCES 4 Credit Hours**

Differential and integral calculus using examples and problems in life sciences.

**Prerequisite:** Minimum 78 ALEKS math score; or MATH 11022 or MATH 12011 with a minimum C grade.

**Schedule Type:** Lecture

**Contact Hours:** 4 lecture

**Grade Mode:** Standard Letter

**MATH 12022 PROBABILITY AND STATISTICS FOR LIFE SCIENCES 3 Credit Hours**

Probability and statistics with applications in medical and biological sciences.

**Prerequisite:** Minimum C grade in MATH 12002 or MATH 12012 or MATH 12021.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MATH 14001 BASIC MATHEMATICAL CONCEPTS I (KMCR) 4 Credit Hours**

(Equivalent to MATH 10771) Development of the real number system and its sub-systems, open sentences, numeration systems, modular arithmetic and some number theory concepts.

**Prerequisite:** Minimum 45 ALEKS math score; or any higher level MATH course (except MATH 10041, MATH 10051 or MATH 11008).

**Schedule Type:** Lecture

**Contact Hours:** 4 lecture

**Grade Mode:** Standard Letter

**Attributes:** Kent Core Mathematics and Critical Reasoning

**MATH 14002 BASIC MATHEMATICAL CONCEPTS II (KMCR) 4 Credit Hours**

Basic concepts of probability, statistics and geometry.

**Prerequisite:** MATH 10771 or MATH 14001 with a minimum C grade.

**Schedule Type:** Lecture

**Contact Hours:** 4 lecture

**Grade Mode:** Standard Letter

**Attributes:** Kent Core Mathematics and Critical Reasoning

**MATH 19002 TECHNICAL MATHEMATICS II 4 Credit Hours**

Emphasizes advanced topics in algebra and trigonometry, analytic geometry, derivatives and integrals.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 4 lecture

**Grade Mode:** Standard Letter

**MATH 19099 FIELD EXPERIENCE IN MATHEMATICS INSTRUCTION (ELR) 1 Credit Hour**

(Repeatable for credit) Learning through tutoring. A supervised lab experience in providing explanations of mathematical concepts.

**Prerequisite:** Special approval.

**Schedule Type:** Lecture

**Contact Hours:** 1 lecture

**Grade Mode:** Standard Letter

**Attributes:** Experiential Learning Requirement

**MATH 20011 DECISION-MAKING UNDER UNCERTAINTY 3 Credit Hours**

An introductory course on applied statistics. The course provides a hands-on approach to understanding, quantification and decision-making under various forms of uncertainty. The main topics include visualization of uncertainty, probabilistic quantification of uncertainty, Bayesian and non-Bayesian ways of decision-making under uncertainty. Class activities incorporate active learning elements, including in-classroom computation with professional-grade software for statistical analysis and simulation.

**Prerequisite:** MATH 12002 with a minimum C grade.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MATH 20095 SPECIAL TOPICS IN MATHEMATICS 1-5 Credit Hours**

(Repeatable for credit) Various special courses will be announced in the schedule of classes under this course number with different section numbers.

**Prerequisite:** Special approval.

**Schedule Type:** Lecture

**Contact Hours:** 1-5 lecture

**Grade Mode:** Standard Letter

**MATH 21001 LINEAR ALGEBRA 3 Credit Hours**

Systems of linear equations and the associated matrix operations, linear transformations, vector spaces, bases, eigenvectors.

**Prerequisite:** Minimum C grade in MATH 11012 or MATH 12002 or MATH 12012 or MATH 12021.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** TAG Mathematics

**MATH 21002 APPLIED LINEAR ALGEBRA 3 Credit Hours**

This is an introductory course in linear algebra. The goal of the course is to teach the math fundamentals of linear algebra in a way that focuses more on applications. The topics include systems of linear equations, matrix operations, vector spaces, eigenvalues and eigenvectors, singular value decompositions, and their applications.

**Prerequisite:** Minimum C grades in MATH 12002 or MATH 11012 or MATH 12012 or MATH 12021.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MATH 21092 COMPUTER PRACTICUM (ELR) 2 Credit Hours**

(Repeatable for credit) Supervised work experience in a computer installation.

**Prerequisite:** None.

**Schedule Type:** Practical Experience

**Contact Hours:** 2 other

**Grade Mode:** Standard Letter

**Attributes:** Experiential Learning Requirement

**MATH 22005 ANALYTIC GEOMETRY AND CALCULUS III 4 Credit Hours**

Study of functions of several variables, including partial derivatives and multiple integrals.

**Prerequisite:** MATH 12003 with a minimum C grade.

**Schedule Type:** Lecture

**Contact Hours:** 4 lecture

**Grade Mode:** Standard Letter

**MATH 23022 DISCRETE STRUCTURES FOR COMPUTER SCIENCE 3 Credit Hours**

(Cross-listed with CS 23022) Discrete structures for computer scientists with a focus on: mathematical reasoning, combinatorial analysis, discrete structures, algorithmic thinking, applications and modeling. Specific topics include logic, sets, functions, relations, algorithms, proof techniques, counting, graphs, trees, Boolean algebra, grammars and languages.

**Prerequisite:** Minimum 55 Compass Algebra score and either minimum 540 SAT math score or minimum 23 ACT math score; or CS 10051 and minimum C grade in MATH 11010.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MATH 30011 BASIC PROBABILITY AND STATISTICS 3 Credit Hours**

Analysis and representation of data. Controlled experiments and observations. Measurement errors. Correlation and regression. Sampling. Probability models and tests of models. Inference. This course cannot be used to meet the mathematics requirements for a BA in Mathematics or a BS in Applied Mathematics or Mathematics.

**Prerequisite:** Minimum 67 ALEKS math score; or minimum C grade in MATH 10675 or MATH 10775 or MATH 11010; or any course MATH 11012 to MATH 12022; or any course MATH 20000 to MATH 49999.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MATH 30055 MATHEMATICAL THEORY OF INTEREST 3 Credit Hours**

A calculus-based introduction to the mathematics of finance. Limited to deterministic analysis of interest rates annuities bonds and immunization. Emphasizes the mathematical theory of the subject matter.

**Prerequisite:** MATH 12003 with a minimum C grade.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MATH 31011 PROOFS IN DISCRETE MATHEMATICS 3 Credit Hours**

The study of discrete mathematical structures including sets, functions, and relations. The course includes an introduction to logical thinking with an emphasis on proof techniques. The course also emphasizes combinatorics topics such as recursion and counting.

**Prerequisite:** MATH 12002 with a minimum C grade.

**Pre/corequisite:** MATH 21001 or MATH 32051 with a minimum C grade.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MATH 32044 ORDINARY DIFFERENTIAL EQUATIONS 3 Credit Hours**

An introduction to ordinary differential equations and applications. Topics include solution methods, series solutions and singular points. Laplace transforms and linear systems. Applications include population dynamics, forced oscillations and resonance.

**Prerequisite:** MATH 21001 and MATH 22005 with a minimum C grade.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** TAG Mathematics

**MATH 32051 MATHEMATICAL METHODS IN THE PHYSICAL SCIENCES I 4 Credit Hours**

Mathematics background beyond calculus I and II for upper-division courses in the physical sciences. Topics include complex numbers and arithmetic, linear algebra, partial differentiation and multiple integrals.

**Prerequisite:** MATH 12003 with a minimum C grade.

**Schedule Type:** Lecture

**Contact Hours:** 4 lecture

**Grade Mode:** Standard Letter

**MATH 32052 MATHEMATICAL METHODS IN THE PHYSICAL SCIENCES II 4 Credit Hours**

Additional mathematics background for upper-division courses in the physical sciences. Topics include vector analysis, Fourier series and transforms ordinary differential equations and partial differential equations.

**Prerequisite:** MATH 32051 with a minimum C grade; or MATH 21001 and MATH 22005 with a minimum C grade.

**Schedule Type:** Lecture

**Contact Hours:** 4 lecture

**Grade Mode:** Standard Letter



**MATH 34001 FUNDAMENTAL CONCEPTS OF ALGEBRA 3 Credit Hours**

Professionalized course in algebra for prospective secondary teachers. Postulational development of number system of algebra; other systems, related topics, applications. This course cannot be used to meet the mathematical requirements for a BA in Mathematics or a BS in either Applied Mathematics or Mathematics. No credit earned toward a degree for this course if a student already earned credit for MATH 41001.

**Prerequisite:** MATH 12002 with a minimum C grade.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MATH 34002 FUNDAMENTAL CONCEPTS OF GEOMETRY 3 Credit Hours**

Professionalized course in geometry for secondary school teachers. Origin and development of the geometry of Euclid with modern refinements, topics, approaches. Other geometries, applications. This cannot be used to meet the mathematics requirement for a BA in Mathematics or a BS in either Applied Mathematics or Mathematics.

**Prerequisite:** MATH 12002 with a minimum C grade.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MATH 38001 HANDS-ON MATHEMATICS 3 Credit Hours**

Students take turns learning a topic and then teach that topic to the class. No text is required; the students use web resources and materials supplied by the instructor. Many of the topics have a hands-on component. Some examples are two- and three-dimensional tiling problems, the Towers of Hanoi and other problems with an inductive solution, and 'magic tricks' with a basis in algebra, parity or modular arithmetic.

**Prerequisite:** MATH 12003 with a minimum C grade.

**Schedule Type:** Seminar

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MATH 40011 PROBABILITY THEORY AND APPLICATIONS 3 Credit Hours**

(Slashed with MATH 50011) Permutations and combinations, discrete and continuous distributions, random variables, conditional probabilities, Baye's formula, mathematical expectation, law of large numbers, normal approximations, basic limit theorems.

**Prerequisite:** MATH 22005 or MATH 32051 with a minimum C grade.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MATH 40012 THEORY OF STATISTICS 3 Credit Hours**

(Slashed with MATH 50012) Sample spaces, continuous distributions, sampling distributions, point and interval estimation, hypothesis testing, types of error, level and power of tests, sequential and nonparametric methods.

**Prerequisite:** MATH 40011 with a minimum C grade.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MATH 40015 APPLIED STATISTICS 3 Credit Hours**

(Slashed with MATH 50015) Course is based on classical linear regression techniques with an emphasis on real data using the principles of sound data analysis. Close attention is given to issues of interpretation, diagnostics, outliers and influential points, goodness of fit and model selection. Topics include simple and multiple linear regression, transformation and modifications of covariates and responses, design matrices, variable selection and logistic regression. Students with statistics courses from other disciplines should consult with the Department of Mathematical Sciences for possible prerequisite overrides.

**Prerequisite:** (MATH 21001 with a minimum C grade OR MATH 21002 with a minimum C grade) AND (MATH 12022 with a minimum B grade OR MATH 20011 with a minimum C grade OR MATH 30011 with a minimum B grade OR MATH 40012 with a minimum C grade).

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MATH 40024 COMPUTATIONAL STATISTICS 3 Credit Hours**

(Slashed with MATH 50024) This course is about the use of computational tools to manage, explore, summarize, and visualize data, as well as the computational underpinnings of fitting statistical models. It uses mostly the statistical computation language R, but also other languages like Python and Matlab. It also covers: simulation and random number generation, computationally intensive methods like the bootstrap and permutation tests, Expectation-Maximization and related algorithms, and dimensionality reduction via matrix decomposition. Students with statistics courses from other disciplines should consult with the Department of Mathematical Sciences for possible prerequisite overrides.

**Prerequisite:** (MATH 21001 with a minimum C grade OR MATH 21002 with a minimum C grade) AND (MATH 12022 with a minimum B grade OR MATH 20011 with a minimum C grade OR MATH 30011 with a minimum B grade OR MATH 40012 with a minimum C grade).

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MATH 40028 STATISTICAL LEARNING 3 Credit Hours**

(Slashed with MATH 50028) This course is about the statistical foundations of modern machine learning techniques. The main focus is classification and prediction, using regression-based, tree-based, and kernel-based methods. Specific methods include logistic regression, classification and regression trees, random forests, and support vector machines. The course also includes an introduction to unsupervised and semi-supervised learning.

**Prerequisite:** MATH 40015 and MATH 40024 with a minimum C grade.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MATH 40051 TOPICS IN PROBABILITY THEORY AND STOCHASTIC PROCESSES 3 Credit Hours**

(Slashed with MATH 50051) Topics from conditional expectations, Markov chains, Markov processes, Brownian motion and Martingales and their applications to stochastic calculus.

**Prerequisite:** MATH 40011 with a minimum C grade.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MATH 40055 ACTUARIAL MATHEMATICS I (ELR) (WIC) 4 Credit Hours**

(Slashed with MATH 50055) Topics from survival models, stochastic analysis of annuities and life insurance and casualty models. .

**Prerequisite:** MATH 30055 and MATH 40011 with a minimum C grade.

**Schedule Type:** Lecture

**Contact Hours:** 4 lecture

**Grade Mode:** Standard Letter

**Attributes:** Experiential Learning Requirement, Writing Intensive Course

**MATH 40056 ACTUARIAL MATHEMATICS II 4 Credit Hours**

(Slashed with MATH 50056) Benefit premiums, benefit reserves and their analysis, decrement models, joint survivorship, risk models.

**Prerequisite:** MATH 40055 with a minimum C grade.

**Schedule Type:** Lecture

**Contact Hours:** 4 lecture

**Grade Mode:** Standard Letter

**MATH 40059 STOCHASTIC ACTUARIAL MODELS 3 Credit Hours**

(Slashed with MATH 50059) Topics from investment risk, mean variance analysis, CAPM, financial derivatives, binomial pricing model, stochastic calculus, Black-Scholes pricing model, and Greeks.

**Prerequisite:** Minimum C grade in MATH 30055 and MATH 40011.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MATH 40093 VARIABLE TITLE WORKSHOP IN MATHEMATICS 1-6 Credit Hours**

(Repeatable for credit) Studies special topics in mathematics. Not acceptable for credit toward a major or minor in math without approval of student's adviser.

**Prerequisite:** Special approval.

**Schedule Type:** Workshop

**Contact Hours:** 1-6 other

**Grade Mode:** Satisfactory/Unsatisfactory

**MATH 41001 MODERN ALGEBRA I (ELR) (WIC) 3 Credit Hours**

(Slashed with MATH 51001) Basic properties of groups, subgroups, factor groups. Basic properties of rings, integral domains and homomorphisms.

**Prerequisite:** MATH 22005 or MATH 32051 with a minimum C grade; and MATH 31011 with a minimum C grade.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Experiential Learning Requirement, Writing Intensive Course

**MATH 41002 MODERN ALGEBRA II (ELR) (WIC) 3 Credit Hours**

(Slashed with MATH 51002) A continuation of MATH 41001, emphasizing properties of rings, their ideals, polynomial ring extensions, fields, finite degree extensions, roots of polynomials, constructability.

**Prerequisite:** Minimum C grade in MATH 41001.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Experiential Learning Requirement, Writing Intensive Course

**MATH 41021 THEORY OF MATRICES 3 Credit Hours**

(Slashed with MATH 51021) A rigorous study of the topics introduced in matrix algebra. Topics included are vector space preliminaries, canonical forms of matrices, diagonalizability criteria.

**Prerequisite:** MATH 21001 and MATH 22005 with a minimum C grade.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MATH 41038 INTERMEDIATE LOGIC 3 Credit Hours**

(Slashed with MATH 51038; Cross-listed with CS 41038 and PHIL 41038 and PHIL 51038) A detailed, systematic study of symbolic logic for philosophy majors, mathematics majors, computer science majors, and anyone else interested in advanced study in logic. The aim of the course is twofold: first, to develop a facility in understanding and using symbolic logic for various purposes, and second, to understand and appreciate symbolic logic as an area of study in itself. Topics include the distinction between syntactic, object-level proofs and semantic, meta-level proofs, the distinction between axiomatic systems and natural deduction systems of object-level proofs, various systems of modal logic, and some non-classical logics.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MATH 41045 METALOGIC 3 Credit Hours**

(Slashed with MATH 51045; Cross-listed with CS 41045 and CS 51045 and PHIL 41045 and PHIL 51045) A detailed, systematic study of metalogic for philosophy majors, mathematics majors, computer science majors, and anyone else interested in advanced study in logic. Topics include the soundness and completeness of the propositional and predicate calculi, the decidability of propositional calculus, the undecidability of predicate calculus, Gödel's incompleteness proof for languages capable of expressing arithmetic, the co-extensionality of the set of general recursive functions, abacus computable functions, and Turing computable functions, and the philosophical motivations for the Church-Turing Thesis that all computable functions are Turing computable.

**Prerequisite:** PHIL 41038.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MATH 42001 ANALYSIS I (ELR) (WIC) 3 Credit Hours**

(Slashed with MATH 52001) Topics include basic structure of the real numbers, Cauchy sequences, convergence, completeness of the real numbers, continuity, differentiation and Riemann integration.

**Prerequisite:** MATH 22005 or MATH 32051 with a minimum C grade; and MATH 31011 with a minimum C grade.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Experiential Learning Requirement, Writing Intensive Course

**MATH 42002 ANALYSIS II (ELR) (WIC) 3 Credit Hours**

(Slashed with MATH 52002) Topics include further development of integration theory, infinite series, uniform convergence, several variable calculus and metric spaces.

**Prerequisite:** MATH 42001 with a minimum C grade.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Experiential Learning Requirement, Writing Intensive Course

**MATH 42011 MATHEMATICAL OPTIMIZATION 3 Credit Hours**  
(Slashed with MATH 52011) Analytic and numerical techniques for location of extreme points of functions and calculus of variations. Both constrained and unconstrained problems are considered.

**Prerequisite:** Minimum C grade in MATH 21001 and MATH 22005 or MATH 32051.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MATH 42021 GRAPH THEORY AND COMBINATORICS 3 Credit Hours**  
(Slashed with MATH 52021) Fundamentals and applications of combinatorial mathematics. Topics include traversability, colorability, networks, inclusion and exclusion, matching and designs.

**Prerequisite:** MATH 12003 and MATH 21001 with a minimum C grade.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MATH 42024 NUMBERS AND GAMES 3 Credit Hours**  
(Slashed with MATH 52024) The study of partisan and impartial combinatorial games; games as numbers; Grundy-Sprague theory.

**Prerequisite:** MATH 21001 with a minimum C grade.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MATH 42031 MATHEMATICAL MODELS AND DYNAMICAL SYSTEMS 3 Credit Hours**

(Slashed with MATH 52031) Formulation and analysis of mathematical models for a variety of phenomena. Mathematical methods from optimization dynamical systems and probability are developed and applied. Modern software tools are utilized.

**Prerequisite:** MATH 32044 or MATH 32052 with a minimum C grade.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MATH 42039 MODELING PROJECTS (ELR) (WIC) 3 Credit Hours**  
(Slashed with MATH 52039) Individual and small-group projects concerned with the formulation and analysis of mathematical models in a variety of areas. Written and oral reports are required.

**Prerequisite:** MATH 42031 with a minimum C grade.

**Schedule Type:** Seminar

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter-IP

**Attributes:** Experiential Learning Requirement, Writing Intensive Course

**MATH 42041 ADVANCED CALCULUS 3 Credit Hours**  
(Slashed with MATH 52041) The calculus and applications of scalar and vector functions of several variables. Vector differential and integral calculus. Applications to field theories, electricity and magnetism and fluid flow.

**Prerequisite:** MATH 21001 with a minimum C grade; and MATH 22005 or MATH 32051.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MATH 42045 PARTIAL DIFFERENTIAL EQUATIONS 3 Credit Hours**  
(Slashed with MATH 52045) An introduction to Fourier series, Fourier transforms and partial differential equations. Wave, heat and potential equations of mathematical physics. Additional topics include Green's functions and the Method of Characteristics for wave equations.

**Prerequisite:** MATH 32044 or MATH 32052 with a minimum C grade.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MATH 42048 COMPLEX VARIABLES 3 Credit Hours**  
(Slashed with MATH 52048) Algebra of complex numbers, analytic functions, mappings, Cauchy integral theory, residue theory and applications.

**Prerequisite:** MATH 22005 or MATH 32051 with a minimum C grade.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MATH 42201 NUMERICAL COMPUTING I 3 Credit Hours**  
(Cross-listed with CS 42201 and CS 52201; slashed with MATH 52201). An introduction to numerical methods and software for solving many common scientific computing problems. Linear systems, least-squares data fitting, nonlinear equations and systems, and optimization problems.

**Prerequisite:** Minimum C grade in all the following MATH 12003; and MATH 21001 or MATH 32051; and CS 13001 or (CS 13011 and CS 13012).

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MATH 42202 NUMERICAL COMPUTING II 3 Credit Hours**  
(Cross-listed with CS 42202 and CS 52202) (Slashed with MATH 52202) A continuation of MATH 42201. Topics include interpolation, numerical differentiation and integration, and numerical solution of ordinary differential equations.

**Prerequisite:** MATH 42201 with a minimum C grade; and MATH 32044 or MATH 32052 with a minimum C grade.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MATH 45011 DIFFERENTIAL GEOMETRY 3 Credit Hours**  
(Slashed with MATH 55011) Analytic and metric differential geometry of curves and surfaces.

**Prerequisite:** MATH 22005 with a minimum C grade.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MATH 45021 EUCLIDEAN GEOMETRY 3 Credit Hours**  
(Slashed with MATH 55021) Geometry of Euclid extended to advanced topics of the triangle, quadrilaterals and circles: cross-ratio, groups, constructions, geometric generalizations; inversion.

**Prerequisite:** MATH 21001 with a minimum C grade.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MATH 45022 LINEAR GEOMETRY 3 Credit Hours**

(Slashed with MATH 55022) Using transformations as a tool to study geometry and to differentiate between different kinds of geometry. Linear algebra methods applied to geometry.

**Prerequisite:** MATH 21001 with a minimum C grade.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MATH 46001 ELEMENTARY TOPOLOGY 3 Credit Hours**

(Slashed with MATH 56001) Metric spaces, introduction to topological spaces, separation axioms.

**Prerequisite:** MATH 22005 with a minimum C grade.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MATH 47011 THEORY OF NUMBERS 3 Credit Hours**

(Slashed with MATH 57011) Divisibility properties of the integers, prime numbers, congruences, quadratic reciprocity, Diophantine equations, number theoretic functions, simple continued fractions, rational approximations.

**Prerequisite:** MATH 12003 with a minimum C grade.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MATH 47021 HISTORY OF MATHEMATICS 3 Credit Hours**

(Slashed with MATH 57021) Survey from Babylonian and Egyptian mathematics to 20th century mathematics with emphasis on the development of algebra, geometry, calculus, number theory.

**Prerequisite:** MATH 23022 or higher with a minimum C grade.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MATH 49995 SELECTED TOPICS IN MATHEMATICS AND ITS APPLICATIONS 1-4 Credit Hours**

(Repeatable for credit) Various special courses will be announced in the schedule of classes under this course number with different section numbers.

**Prerequisite:** Special approval.

**Schedule Type:** Lecture

**Contact Hours:** 1-4 lecture

**Grade Mode:** Standard Letter

**MATH 49996 INDIVIDUAL STUDY 1-4 Credit Hours**

(Repeatable for credit) Individual investigation in mathematics.

**Prerequisite:** Special approval.

**Schedule Type:** Individual Investigation

**Contact Hours:** 1-4 other

**Grade Mode:** Standard Letter

**MATH 49998 RESEARCH (ELR) 1-15 Credit Hours**

(Repeatable for credit) Research in mathematics.

**Prerequisite:** Special approval.

**Schedule Type:** Research

**Contact Hours:** 1-15 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**Attributes:** Experiential Learning Requirement

**MATH 50011 PROBABILITY THEORY AND APPLICATIONS 3 Credit Hours**

(Slashed with MATH 40011) Permutations and combinations, discrete and continuous distributions, random variables, conditional probabilities, Baye's formula, mathematical expectation, law of large numbers, normal approximations, basic limit theorems.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MATH 50012 THEORY OF STATISTICS 3 Credit Hours**

(Slashed with MATH 40012) Sample spaces, continuous distributions, sampling distributions, point and interval estimation, hypothesis testing, types of error, level and power of tests, sequential and nonparametric methods.

**Prerequisite:** MATH 40011 or MATH 50011; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MATH 50015 APPLIED STATISTICS 3 Credit Hours**

(Slashed with MATH 40015) Course is based on classical linear regression techniques with an emphasis on real data using the principles of sound data analysis. Close attention is given to issues of interpretation, diagnostics, outliers and influential points, goodness of fit and model selection. Topics include simple and multiple linear regression, transformation and modifications of covariates and responses, design matrices, variable selection and logistic regression.

**Prerequisite:** Applied mathematics or pure mathematics major; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MATH 50024 COMPUTATIONAL STATISTICS 3 Credit Hours**

(Slashed with MATH 40024) This course is about the use of computational tools to manage, explore, summarize, and visualize data, as well as the computational underpinnings of fitting statistical models. It uses mostly the statistical computation language R, but also other languages like Python and Matlab. It also covers: simulation and random number generation, computationally intensive methods like the bootstrap and permutation tests, Expectation-Maximization and related algorithms, and dimensionality reduction via matrix decomposition.

**Prerequisite:** Applied mathematics or pure mathematics major; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MATH 50028 STATISTICAL LEARNING 3 Credit Hours**

(Slashed with MATH 40028) This course is about the statistical foundations of modern machine learning techniques. The main focus is classification and prediction, using regression-based, tree-based, and kernel-based methods. Specific methods include logistic regression, classification and regression trees, random forests, and support vector machines. The course also includes an introduction to unsupervised and semi-supervised learning.

**Prerequisite:** MATH 40015 or 50015 and MATH 40024 or 50024; and applied mathematics or pure mathematics major; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter



**MATH 50051 TOPICS IN PROBABILITY THEORY AND STOCHASTIC PROCESSES 3 Credit Hours**

(Slashed with MATH 40051) Topics from conditional expectations, Markov chains, Markov processes, Brownian Motion and Martingales and their applications to stochastic calculus.

**Prerequisite:** MATH 50011; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MATH 50055 ACTUARIAL MATHEMATICS I 4 Credit Hours**

(Slashed with MATH 40055) Topics from survival models, stochastic analysis of annuities and life insurance and casualty models.

**Prerequisite:** MATH 30055 and MATH 50011; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 4 lecture

**Grade Mode:** Standard Letter

**MATH 50056 ACTUARIAL MATHEMATICS II 4 Credit Hours**

(Slashed with MATH 40056) Benefit premiums, benefit reserves and their analysis; decrement models, joint survivorship, risk models.

**Prerequisite:** MATH 50055; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 4 lecture

**Grade Mode:** Standard Letter

**MATH 50059 STOCHASTIC ACTUARIAL MODELS 3 Credit Hours**

(Slashed with MATH 40059) Topics from investment risk, mean variance analysis, CAPM, financial derivatives, binomial pricing model, stochastic calculus, Black-Scholes pricing model, and Greeks.

**Prerequisite:** MATH 40011 or 50011 and Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MATH 51001 MODERN ALGEBRA I 3 Credit Hours**

(Slashed with MATH 41001) Basic properties of groups, subgroups, factor groups. Basic properties of rings, integral domains and homomorphisms.

**Prerequisite:** MATH 21001 and MATH 22005; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MATH 51002 MODERN ALGEBRA II 3 Credit Hours**

(Slashed with MATH 41002) A continuation of MATH 51001, emphasizing properties of rings, their ideals, polynomial ring extensions, fields, finite degree extensions, roots of polynomials, constructibility.

**Prerequisite:** MATH 41001 or MATH 51001; and applied mathematics or pure mathematics major; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MATH 51021 THEORY OF MATRICES 3 Credit Hours**

(Slashed with MATH 41021) A rigorous study of the topics introduced in matrix algebra. Topics included are: canonical forms of matrices, diagonalizability criteria.

**Prerequisite:** MATH 21001 and MATH 22005; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MATH 51038 INTERMEDIATE LOGIC 3 Credit Hours**

(Cross-listed with CS 41038 and PHIL 41038 and PHIL 51038) (Slashed with MATH 41038) A detailed, systematic study of symbolic logic for philosophy majors, mathematics majors, computer science majors, and anyone else interested in advanced study in logic. The aim of the course is twofold: first, to develop a facility in understanding and using symbolic logic for various purposes, and second, to understand and appreciate symbolic logic as an area of study in itself. Topics include the distinction between syntactic, object-level proofs and semantic, meta-level proofs, the distinction between axiomatic systems and natural deduction systems of object-level proofs, various systems of modal logic and some non-classical logics.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MATH 51045 METALOGIC 3 Credit Hours**

(Cross-listed with CS 41045 and CS 51045 and PHIL 41045 and PHIL 51045) (Slashed with MATH 41045) A detailed, systematic study of metalogic for philosophy majors, mathematics majors, computer science majors, and anyone else interested in advanced study in logic. Topics include the soundness and completeness of the propositional and predicate calculi, the decidability of propositional calculus, the undecidability of predicate calculus, Gödel's incompleteness proof for languages capable of expressing arithmetic, the co-extensionality of the set of general recursive functions, abacus computable functions, and Turing computable functions, and the philosophical motivations for the ChurchTuring Thesis that all computable functions are Turing computable

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MATH 52001 ANALYSIS I 3 Credit Hours**

(Slashed with MATH 42001) Topics include basic structure of the real numbers, Cauchy sequences, convergence, completeness of the real numbers, continuity, differentiation and Riemann integration.

**Prerequisite:** Applied mathematics or pure mathematics major; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MATH 52002 ANALYSIS II 3 Credit Hours**

(Slashed with MATH 42002) Topics include further development of integration theory infinite series, uniform convergence, several variable calculus and metric spaces.

**Prerequisite:** MATH 42001 or MATH 52001; and applied mathematics or pure mathematics major; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MATH 52011 MATHEMATICAL OPTIMIZATION 3 Credit Hours**

(Slashed with MATH 42011) Analytical and numerical techniques for location of extreme points of functions and calculus of variations. Both constrained and unconstrained problems are considered.

**Prerequisite:** MATH 21001 and MATH 22005; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter



**MATH 52021 GRAPH THEORY AND COMBINATORICS 3 Credit Hours**

(MATH 42021) Fundamentals and applications of combinatorial mathematics. Topics include transversability, colorability, networks, inclusion and exclusion, matching and designs.

**Prerequisite:** MATH 12003 and MATH 21001; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MATH 52024 NUMBERS AND GAMES 3 Credit Hours**

(Slashed with MATH 42024) The study of partisan and impartial combinatorial games; games as numbers; Grundy-Sprague theory.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MATH 52031 MATHEMATICAL MODELS AND DYNAMICAL SYSTEMS 3 Credit Hours**

(Slashed with MATH 42031) Formulation and analysis of mathematical models for a variety of phenomena. Mathematical methods from optimization, dynamical systems and probability are developed and applied. Modern software tools are utilized.

**Prerequisite:** MATH 32044; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MATH 52039 MODELING PROJECTS 3 Credit Hours**

(Slashed with MATH 42039) Individual and small-group projects concerned with the formulation and analysis of mathematical models in a variety of areas. Written and oral reports required.

**Prerequisite:** MATH 52031 with a minimum C grade; and graduate standing.

**Schedule Type:** Seminar

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**MATH 52041 ADVANCED CALCULUS 3 Credit Hours**

(Slashed with MATH 42041) The calculus and applications of scalar and vector functions of several variables. Vector differential and integral calculus. Applications to field theories, electricity and magnetism and fluid flow.

**Prerequisite:** MATH 21001 and MATH 22005.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MATH 52045 PARTIAL DIFFERENTIAL EQUATIONS 3 Credit Hours**

(Slashed with MATH 42045) Introduction to Fourier series, Fourier transforms and partial differential equations. Wave, heat and potential equations of mathematical physics. Additional topics include Green's functions and the Method of Characteristics for wave equations.

**Prerequisite:** Applied mathematics or pure mathematics major; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MATH 52048 COMPLEX VARIABLES 3 Credit Hours**

(Slashed with MATH 42048) Algebra of complex numbers, analytic functions, mappings, Cauchy integral theory, residue theory and applications.

**Prerequisite:** Applied mathematics or pure mathematics major; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MATH 52201 NUMERICAL COMPUTING I 3 Credit Hours**

(Cross-listed with CS 42201 and CS 52201) (Slashed with MATH 42201)

An introduction to numerical methods and software for solving many common scientific computing problems. Linear systems, least-square data fitting, nonlinear equations and systems and optimization problems.

**Prerequisite:** Applied mathematics or pure mathematics major; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MATH 52202 NUMERICAL COMPUTING II 3 Credit Hours**

(Cross-listed with CS 42202 and CS 52202) (Slashed with MATH 42202)

A continuation of MATH 52201. Topics include interpolation, numerical differentiation and integration, and numerical solution of ordinary differential equations.

**Prerequisite:** MATH 42201 or 52201; and applied mathematics or pure mathematics major; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MATH 55011 DIFFERENTIAL GEOMETRY 3 Credit Hours**

(Slashed with MATH 45011) Analytic and metric differential geometry of curves and surfaces.

**Prerequisite:** MATH 22005; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MATH 55021 EUCLIDEAN GEOMETRY 3 Credit Hours**

(Slashed with MATH 45021) Geometry of Euclid extended to advanced topics of the triangle, quadrilaterals and circles: crossratio, groups, constructions, geometric generalizations; inversion.

**Prerequisite:** MATH 21001; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MATH 55022 LINEAR GEOMETRY 3 Credit Hours**

(Slashed with MATH 45022) Use of transformations as a tool to study geometry and to differentiate between different kinds of geometry. Linear algebra methods applied to geometry.

**Prerequisite:** MATH 21001; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MATH 56001 ELEMENTARY TOPOLOGY 3 Credit Hours**

(Slashed with MATH 46001) Metric spaces, introduction to topological spaces, separation axioms.

**Prerequisite:** MATH 22005; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MATH 57011 THEORY OF NUMBERS 3 Credit Hours**

(Slashed with MATH 47011) Divisibility properties of the integers, prime numbers, congruencies, quadratic reciprocity, Diophantine equations, number theoretic functions, simple continued fractions, rational approximations.

**Prerequisite:** MATH 12003; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MATH 57021 HISTORY OF MATHEMATICS 3 Credit Hours**

(Slashed with MATH 47021) Survey from Babylonian and Egyptian mathematics to 20th-century mathematics with emphasis on the development of algebra, geometry, calculus, number theory.

**Prerequisite:** One course MATH 23022 or higher; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MATH 57091 SELECTED TOPICS IN MATHEMATICS AND ITS APPLICATIONS 1-3 Credit Hours**

(Repeatable for credit) Various special courses will be announced in the schedule of classes under this course number with different section numbers.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Seminar

**Contact Hours:** 1-3 other

**Grade Mode:** Standard Letter

**MATH 59893 VARIABLE TITLE WORKSHOP IN MATHEMATICS 1-6 Credit Hours**

(Repeatable for credit) Studies in special topics in pure and applied mathematics.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Workshop

**Contact Hours:** 1-6 other

**Grade Mode:** Satisfactory/Unsatisfactory

**MATH 60051 PROBABILITY I 4 Credit Hours**

(Slashed with MATH 70051) Distribution functions, measure theory, random variables, expectation, independence, convergence, concepts, law of large numbers.

**Prerequisite:** MATH 40011 or MATH 42002 or MATH 50011 or MATH 52002; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 4 lecture

**Grade Mode:** Standard Letter

**MATH 60052 PROBABILITY II 3 Credit Hours**

(Slashed with MATH 70052) Characteristic functions, the central limit problem, conditional expectations, Martingale theory, Brownian motion.

**Prerequisite:** MATH 60051; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MATH 60061 MATHEMATICAL STATISTICS I 4 Credit Hours**

(Slashed with MATH 70061) Statistics, distributions of statistics. Sampling distributions. Decision spaces and loss functions. Sufficiency and completeness. Estimation theory. Rao Blackwell and the Cramer Rao theorems.

**Prerequisite:** MATH 42002 or MATH 52002; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 4 lecture

**Grade Mode:** Standard Letter

**MATH 60062 MATHEMATICAL STATISTICS II 3 Credit Hours**

(Slashed with MATH 70062) Tests of statistical hypothesis. Neyman Pearson Lemma. Exponential families and invariance. Sequential tests. Non-parametric procedures.

**Prerequisite:** MATH 60061; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MATH 60070 FINANCIAL MATHEMATICS 3 Credit Hours**

(Slashed with MATH 70070) Topics from replication of trading strategies, arbitrage, completeness, Martingale representation theorem, fundamental theorem of finance, stochastic differential equations, Black and Scholes formula of option pricing.

**Prerequisite:** MATH 50051; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MATH 60091 SEMINAR IN STATISTICS AND PROBABILITY 1-3 Credit Hours**

(Repeatable for credit) Seminar on current research in statistics and probability.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Seminar

**Contact Hours:** 1-3 other

**Grade Mode:** Standard Letter

**MATH 60093 VARIABLE TITLE WORKSHOP IN MATHEMATICS 1-3 Credit Hours**

(Repeatable for credit) Studies of special topics in mathematics. Not acceptable for credit toward a graduate degree in mathematics without approval of the student's adviser.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Workshop

**Contact Hours:** 1-3 other

**Grade Mode:** Satisfactory/Unsatisfactory

**MATH 60094 COLLEGE TEACHING OF MATHEMATICS 1 Credit Hour**

(Repeatable for credit) Techniques and problems in the teaching of college-level mathematics. Student presentations of mathematical papers and colloquia will be included.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 1 lecture

**Grade Mode:** Standard Letter

**MATH 61051 ABSTRACT ALGEBRA I 4 Credit Hours**

(Slashed with MATH 71051) Advanced topics in group theory including Sylow Theorems, finite Abelian groups, divisible groups and related concepts. Includes one hour problem session each week.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 4 lecture

**Grade Mode:** Standard Letter

**MATH 61052 ABSTRACT ALGEBRA II 3 Credit Hours**

(Slashed with MATH 71052) Advanced topics, commutative ring theory and field theory, including polynomial rings, unique factorization domains, matrix rings, Galois theory.

**Prerequisite:** MATH 61051; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MATH 61091 SEMINAR IN ALGEBRA 1-3 Credit Hours**

(Repeatable for credit) Seminar on current research in algebra.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Seminar

**Contact Hours:** 1-3 other

**Grade Mode:** Satisfactory/Unsatisfactory

**MATH 62041 METHODS OF APPLIED MATHEMATICS I 3 Credit Hours**

(Slashed with MATH 72041) Analysis and applications of ordinary and partial differential equations and related topics. Dimensional analysis (Buckingham Pi Theorem). Perturbation methods (singular perturbations, matched asymptotic expansions, WKB approximation). Variational methods (Euler-Lagrange equations).

**Prerequisite:** MATH 51021 and MATH 52041 and MATH 52045 and MATH 52048; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MATH 62042 METHODS OF APPLIED MATHEMATICS II 3 Credit Hours**

(Slashed with MATH 72042) Continuation of MATH 62041. Integral equations and Green's functions (Fredholm alternative, compact operators, distributions, weak solutions). Wave phenomena (dispersion, KdV equation). Stability and bifurcation (linearized stability analysis, turning points, Hopf bifurcation).

**Prerequisite:** MATH 62041; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MATH 62051 FUNCTIONS OF A REAL VARIABLE I 4 Credit Hours**

(Slashed with MATH 72051) Introduction to modern concepts of real analysis, including metric spaces, measure and integration theory.

**Prerequisite:** MATH 42002 or MATH 52002; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 4 lecture

**Grade Mode:** Standard Letter

**MATH 62052 FUNCTIONS OF A REAL VARIABLE II 3 Credit Hours**

(Slashed with MATH 72052) A continuation of MATH 62051. Included are basic topics in functional analysis and Hilbert space theory.

**Prerequisite:** MATH 62051; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MATH 62151 FUNCTIONS OF A COMPLEX VARIABLE I 4 Credit Hours**

(Slashed with MATH 72151) Topological properties of the complex plane; analytic, entire, meromorphic functions; analytic continuation; conformal mappings; Picard's Theorem; Riemann surfaces.

**Prerequisite:** MATH 52002; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 4 lecture

**Grade Mode:** Standard Letter

**MATH 62152 FUNCTIONS OF A COMPLEX VARIABLE II 3 Credit Hours**

(Slashed with MATH 72152) Topological properties of the complex plane; analytic, entire, meromorphic functions; analytic continuation; conformal mappings; Picard's Theorem; Riemann surfaces.

**Prerequisite:** MATH 62151; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MATH 62203 COMPUTATIONAL FINANCE 3 Credit Hours**

(Slashed with MATH 72203) Basic numerical methods, (numerical linear algebra, nonlinear equations, curve fitting, ODEs, integration, Monte-Carlo methods), numerical solution of PDEs (stability, convergence, Black-Scholes, American options, SDEs) probabilistic methods.

**Prerequisite:** MATH 22005 and MATH 21001 and MATH 32044; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MATH 62251 NUMERICAL ANALYSIS I 4 Credit Hours**

(Slashed with MATH 72251) Floating point computation, rounding error analysis, conditioning, interpolation (polynomial, trigonometric, spline). Numerical quadrature (Newton-Cotes, Gauss), extrapolation, Romberg integration.

**Prerequisite:** MATH 42002 or MATH 52002; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 4 lecture

**Grade Mode:** Standard Letter

**MATH 62252 NUMERICAL ANALYSIS II 3 Credit Hours**

(Slashed with MATH 72252) Numerical solution of linear systems of equations (LU factorization, error analysis). Least squares, orthogonalization methods. Algebraic eigenvalue problems, QR algorithm, singular value decomposition.

**Prerequisite:** MATH 41021 or MATH 51021; and MATH 62251 or MATH 72251; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MATH 62261 NUMERICAL SOLUTION OF ORDINARY DIFFERENTIAL EQUATIONS 3 Credit Hours**

(Slashed with MATH 72261) Discretization methods for ordinary differential equations and systems. Initial value and boundary value problems. Numerical implementation software and analysis.

**Prerequisite:** MATH 32044; and MATH 42202 or MATH 52202; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MATH 62262 NUMERICAL SOLUTION OF PARTIAL DIFFERENTIAL EQUATIONS 3 Credit Hours**

(Slashed with MATH 72262) Derivation and analysis of discrete methods (finite differences, finite elements) for the numerical solution of elliptic, hyperbolic and parabolic partial differential equations.

**Prerequisite:** MATH 42045 or MATH 52045; and MATH 42202 or MATH 52202; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MATH 62263 NUMERICAL SOLUTION OF LARGE SPARSE LINEAR SYSTEMS 3 Credit Hours**

(Slashed with MATH 72263) (Cross-listed with CS 62263 and CS 72263) Construction and analysis of iterative methods for large systems of linear algebraic equations. Jacobi, Gauss-Seidel, SOR. Polynomial acceleration methods, conjugate gradients. Multi-grid methods.

**Prerequisite:** MATH 41021 or MATH 51021; and MATH 42202 or MATH 52202; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MATH 62264 NUMERICAL SOLUTION OF NONLINEAR SYSTEMS 3 Credit Hours**

(Cross-listed with CS 62264 and CS 72264) (Slashed with MATH 72264) Construction and analysis of numerical methods for systems of nonlinear algebraic equations and optimization problems. Numerical implementation and software.

**Prerequisite:** MATH 42041 or MATH 52041; and MATH 42202 or MATH 52202; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MATH 62291 SEMINAR IN NUMERICAL ANALYSIS 1-3 Credit Hours**

(Repeatable for credit) Seminar on current research in numerical analysis.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Seminar

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**MATH 62391 SEMINAR IN MEASURE THEORY 1-3 Credit Hours**

(Repeatable for credit) Seminar on current research in measure theory.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Seminar

**Contact Hours:** 1-3 other

**Grade Mode:** Standard Letter

**MATH 62491 SEMINAR IN NONLINEAR ANALYSIS 1-3 Credit Hours**

(Repeatable for credit) Seminar on current research in nonlinear analysis.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Seminar

**Contact Hours:** 1-3 other

**Grade Mode:** Standard Letter

**MATH 64091 SEMINAR IN MATHEMATICS EDUCATION 3 Credit Hours**

(Repeatable for credit) Studies in geometry, algebra, mathematics for junior and senior high school. Mathematics content professionalized for teachers.

**Prerequisite:** MATH 34001; and graduate standing.

**Schedule Type:** Seminar

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**MATH 66051 INTRODUCTION TO TOPOLOGY I 4 Credit Hours**

(Slashed with MATH 76051) Set theory, topological spaces, continuity, product spaces, quotient spaces, separation axioms, compactness and metrizability.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MATH 66052 INTRODUCTION TO TOPOLOGY II 3 Credit Hours**

(Slashed with MATH 76052) Geometric topology, including connectedness, continua, homotopy, the plane and 2 manifolds.

**Prerequisite:** MATH 76051; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MATH 67091 SEMINAR IN NUMBER THEORY 1-3 Credit Hours**

(Repeatable for credit) (Slashed with MATH 77091) Seminar on current research in number theory.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Seminar

**Contact Hours:** 1-3 other

**Grade Mode:** Standard Letter

**MATH 67098 RESEARCH 1-15 Credit Hours**

(Repeatable for credit) Research or individual investigation. Credits are applied toward degree requirements with approval if letter grade of 'S' is given.

**Prerequisite:** Graduate standing.

**Schedule Type:** Research

**Contact Hours:** 1-15 other

**Grade Mode:** Standard Letter

**MATH 67199 THESIS I 2-6 Credit Hours**

Thesis student must register for a total of 6 hours, 2 to 6 hours in a single semester distributed over several semesters if desired.

**Prerequisite:** Graduate standing.

**Schedule Type:** Masters Thesis

**Contact Hours:** 2-6 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**MATH 67299 THESIS II 2 Credit Hours**

Thesis students must continue registration each semester until all degree requirements are met.

**Prerequisite:** MATH 67199; and graduate standing.

**Schedule Type:** Masters Thesis

**Contact Hours:** 2 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**MATH 70051 PROBABILITY I 4 Credit Hours**

(Slashed with MATH 60051) Distribution functions, measure theory, random variables, expectation, independence, convergence, concepts, law of large numbers.

**Prerequisite:** MATH 40011 or MATH 50011; or MATH 42002 or MATH 52002; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 4 lecture

**Grade Mode:** Standard Letter

**MATH 70052 PROBABILITY II 3 Credit Hours**

(Slashed with MATH 60052) Characteristic functions, the central limit problem, conditional expectations, Martingale theory, Brownian motion.

**Prerequisite:** MATH 60051 or MATH 70051; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter



**MATH 70061 MATHEMATICAL STATISTICS I 4 Credit Hours**  
 (Slashed with MATH 60061) Statistics, distributions of statistics. Sampling distributions. Decision spaces and loss functions. Sufficiency and completeness. Estimation theory. Rao Blackwell and the Cramer Rao theorems.  
**Prerequisite:** MATH 42002 or MATH 52002.  
**Schedule Type:** Lecture  
**Contact Hours:** 4 lecture  
**Grade Mode:** Standard Letter

**MATH 70062 MATHEMATICAL STATISTICS II 3 Credit Hours**  
 (Slashed with MATH 60062) Tests of statistical hypothesis. Neyman Pearson Lemma. Exponential families and invariance. Sequential tests. Non parametric procedures.  
**Prerequisite:** MATH 60061 or MATH 70061; and doctoral standing.  
**Schedule Type:** Lecture  
**Contact Hours:** 3 lecture  
**Grade Mode:** Standard Letter

**MATH 70070 FINANCIAL MATHEMATICS 3 Credit Hours**  
 (Slashed with MATH 60070) Topics from replication of trading strategies, arbitrage completeness, Martingale presentation theorem, fundamental theorem of finance, stochastic differential equations, Black and Scholes formula of option pricing.  
**Prerequisite:** MATH 50051; and doctoral standing.  
**Schedule Type:** Lecture  
**Contact Hours:** 3 lecture  
**Grade Mode:** Standard Letter

**MATH 70091 SEMINAR IN STATISTICS AND PROBABILITY 1-3 Credit Hours**  
 (Repeatable for credit) Seminar on current research in statistics and probability.  
**Prerequisite:** Doctoral standing; and special approval.  
**Schedule Type:** Seminar  
**Contact Hours:** 3 other  
**Grade Mode:** Standard Letter

**MATH 70094 COLLEGE TEACHING OF MATHEMATICS 1 Credit Hour**  
 (Repeatable for credit) Techniques and problems in the teaching of college-level mathematics. Student presentations of mathematical papers and colloquia will be included.  
**Prerequisite:** Doctoral standing.  
**Schedule Type:** Lecture  
**Contact Hours:** 1 lecture  
**Grade Mode:** Standard Letter

**MATH 70095 SELECTED TOPICS IN STATISTICS AND PROBABILITY 1-3 Credit Hours**  
 (Repeatable for credit) Topics vary with each offering and complement topics covered in MATH 70051, MATH 70052, MATH 70061 and MATH 70062.  
**Prerequisite:** Doctoral standing; and special approval.  
**Schedule Type:** Lecture  
**Contact Hours:** 1-3 lecture  
**Grade Mode:** Standard Letter

**MATH 71001 STRUCTURE OF RINGS AND ALGEBRAS I 3 Credit Hours**  
 Advanced topics in ring theory, including Artinian rings, Noetherian rings, advanced commutative ring theory.  
**Prerequisite:** Doctoral standing; and special approval.  
**Schedule Type:** Lecture  
**Contact Hours:** 3 lecture  
**Grade Mode:** Standard Letter

**MATH 71002 STRUCTURE OF RINGS AND ALGEBRAS II 3 Credit Hours**  
 Advanced topics in ring theory including an introduction to homological algebra. Includes Dedekind domains, regular rings, torsion theory.  
**Prerequisite:** MATH 71001; and doctoral standing.  
**Schedule Type:** Lecture  
**Contact Hours:** 3 lecture  
**Grade Mode:** Standard Letter

**MATH 71011 ADVANCED GROUP THEORY 3 Credit Hours**  
 Advanced topics in group theory. Topics include permutation arguments, coprime actions, transfer theorems, nonsimplicity criteria. Properties of families of groups: solvable, p solvable, nilpotent, p groups.  
**Prerequisite:** MATH 61051 or MATH 71051; and MATH 61052 or MATH 71052; and doctoral standing.  
**Schedule Type:** Lecture  
**Contact Hours:** 3 lecture  
**Grade Mode:** Standard Letter

**MATH 71012 CHARACTERS OF FINITE GROUPS 3 Credit Hours**  
 Development of characters of finite groups, their properties, orthogonality relations, integrality conditions. Applications include Burnside's paqb theorem and existence of Frobenius kernels in Frobenius groups.  
**Prerequisite:** MATH 61051 or MATH 71051; and MATH 61052 or MATH 71052; and doctoral standing.  
**Schedule Type:** Lecture  
**Contact Hours:** 3 lecture  
**Grade Mode:** Standard Letter

**MATH 71051 ABSTRACT ALGEBRA I 4 Credit Hours**  
 (Slashed with MATH 61051) Advanced topics in group theory, including Sylow theorems, finite Abelian groups, divisible groups and related concepts. Includes one-hour problem session each week.  
**Prerequisite:** Doctoral standing; and special approval.  
**Schedule Type:** Lecture  
**Contact Hours:** 4 lecture  
**Grade Mode:** Standard Letter

**MATH 71052 ABSTRACT ALGEBRA II 3 Credit Hours**  
 (Slashed with MATH 61052) Advanced topics, commutative ring theory and field theory, including polynomial rings, unique factorization, domains, matrix rings, Galois theory.  
**Prerequisite:** MATH 61051 or MATH 71051; and doctoral standing.  
**Schedule Type:** Lecture  
**Contact Hours:** 3 lecture  
**Grade Mode:** Standard Letter

**MATH 71091 SEMINAR IN ALGEBRA 1-3 Credit Hours**  
 (Repeatable for credit) (Slashed with MATH 61091) Seminar on current research in algebra.  
**Prerequisite:** Doctoral standing; and special approval.  
**Schedule Type:** Seminar  
**Contact Hours:** 1-3 other  
**Grade Mode:** Satisfactory/Unsatisfactory

**MATH 71095 SELECTED TOPICS IN ALGEBRA 1-3 Credit Hours**  
 (Repeatable for credit) Topics vary with each offering and complement topics covered in MATH 71002, MATH 71051 and MATH 71052.  
**Prerequisite:** Doctoral standing; and special approval.  
**Schedule Type:** Lecture  
**Contact Hours:** 1-3 lecture  
**Grade Mode:** Standard Letter



**MATH 72001 FUNCTIONAL ANALYSIS I 3 Credit Hours**

A study of principles of linear analysis in the setting of normed linear spaces and topological vector spaces.

**Prerequisite:** MATH 72052; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MATH 72002 FUNCTIONAL ANALYSIS II 3 Credit Hours**

A study of principles of linear analysis in the setting of normed linear spaces and topological vector spaces.

**Prerequisite:** MATH 72001; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MATH 72041 METHODS OF APPLIED MATHEMATICS I 3 Credit Hours**

(Slashed with MATH 62041) Analysis and applications of ordinary and partial differential equations and related topics. Dimensional analysis (Buckingham Pi Theorem). Perturbation methods (singular perturbations, matched asymptotic expansions, WKB approximation). Variational methods (Euler-Lagrange equations).

**Prerequisite:** MATH 51021 and MATH 52041 and MATH 52045 and MATH 52048; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MATH 72042 METHODS OF APPLIED MATHEMATICS II 3 Credit Hours**

(Slashed with MATH 62042) Continuation of MATH 72041. Integral equations and Green's functions (Fredholm alternative, compact operators, distributions, weak solutions). Wave phenomena (dispersion, KdV equation). Stability and bifurcation (linearized stability analysis, turning points, Hopf bifurcation).

**Prerequisite:** MATH 62041 or MATH 72041; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MATH 72051 FUNCTIONS OF A REAL VARIABLE I 4 Credit Hours**

(Slashed with MATH 62051) Introduction to modern concepts of real analysis including metric spaces, measure and integration theory.

**Prerequisite:** MATH 42002 or MATH 52002; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 4 lecture

**Grade Mode:** Standard Letter

**MATH 72052 FUNCTIONS OF A REAL VARIABLE II 3 Credit Hours**

(Slashed with MATH 62052). A continuation of MATH 72051. Included are basic topics in functional analysis and Hilbert space theory.

**Prerequisite:** MATH 62051 or MATH 72051; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MATH 72095 SELECTED TOPICS IN REAL ANALYSIS 1-3 Credit Hours**

(Repeatable for credit) Topics vary with each offering and complement topics covered in MATH 72002, MATH 72051 and MATH 72052.

**Prerequisite:** Doctoral standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 1-3 lecture

**Grade Mode:** Standard Letter

**MATH 72151 FUNCTIONS OF A COMPLEX VARIABLE I 4 Credit Hours**

(Slashed with MATH 62151) Topological properties of the complex plane; analytic, entire, meromorphic functions; analytic continuation; conformal mappings; Picard's Theorem; Riemann surfaces.

**Prerequisite:** MATH 52002; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 4 lecture

**Grade Mode:** Standard Letter

**MATH 72152 FUNCTIONS OF A COMPLEX VARIABLE II 3 Credit Hours**

(Slashed with MATH 62152) Topological properties of the complex plane; analytic, entire, meromorphic functions; analytic continuation; conformal mappings; Picard's theorem; Riemann surfaces.

**Prerequisite:** MATH 72151; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MATH 72195 SELECTED TOPICS IN COMPLEX ANALYSIS 1-3 Credit Hours**

(Repeatable for credit) Topics vary with each offering and complement topics covered in MATH 72151 and MATH 72152.

**Prerequisite:** Doctoral standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 1-3 lecture

**Grade Mode:** Standard Letter

**MATH 72203 COMPUTATIONAL FINANCE 3 Credit Hours**

(Slashed with MATH 62203) Basic numerical methods, (numerical linear algebra, nonlinear equations, curve fitting, ODEs, integration, Monte-Carlo methods) numerical solution of PDEs (stability, convergence, Black-Scholes, American options, SDEs) probabilistic methods.

**Prerequisite:** MATH 22005 and MATH 21001 and MATH 32044; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MATH 72251 NUMERICAL ANALYSIS I 4 Credit Hours**

(Slashed with MATH 62251) Floating point computation, rounding error analysis, conditioning, interpolation (polynomial, trigonometric spline). Numerical quadrature (Newton-Cotes, Gauss), extrapolation, Romberg integration.

**Prerequisite:** MATH 42002 or MATH 52002; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 4 lecture

**Grade Mode:** Standard Letter

**MATH 72252 NUMERICAL ANALYSIS II 3 Credit Hours**

(Slashed with MATH 62252) Numerical solution of linear systems of equations (LU factorization, error analysis). Least squares, orthogonalization methods. Algebraic eigenvalue problems, QR algorithm, singular value decomposition.

**Prerequisite:** MATH 41021 or MATH 51021; and MATH 62251 or MATH 72251; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MATH 72261 NUMERICAL SOLUTION OF ORDINARY DIFFERENTIAL EQUATIONS 3 Credit Hours**

(Slashed with MATH 62261) Discretization methods for ordinary differential equations and systems. Initial value and boundary value problems. Numerical implementation software and analysis.

**Prerequisite:** MATH 32044; and MATH 42202 or MATH 52202; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MATH 72262 NUMERICAL SOLUTION OF PARTIAL DIFFERENTIAL EQUATIONS 3 Credit Hours**

(Slashed with MATH 62262) Derivation and analysis of discrete methods (finite differences, finite elements) for the numerical solution of elliptic, hyperbolic and parabolic partial differential equations.

**Prerequisite:** MATH 42045 or MATH 52045; and MATH 42202 or MATH 52202; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MATH 72263 NUMERICAL SOLUTION OF LARGE SPARSE LINEAR SYSTEMS 3 Credit Hours**

(Slashed with MATH 62263) (Cross-listed with CS 62263 and CS 72263) Construction and analysis of iterative methods for large systems of linear algebraic equations. Jacobi, Gauss-Seidel, SOR. Polynomial acceleration methods, conjugate gradients. Multi-grid methods.

**Prerequisite:** MATH 41021 or MATH 51021; and MATH 42202 or MATH 52202; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MATH 72264 NUMERICAL SOLUTION OF NONLINEAR SYSTEMS 3 Credit Hours**

(Slashed with MATH 62264) (Cross-listed with CS 62264 and CS 72264) Construction and analysis of numerical methods for systems of nonlinear algebraic equations and optimization problems. Numerical implementation and software.

**Prerequisite:** MATH 42041 or MATH 52041; and MATH 42202 or MATH 52202; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MATH 72291 SEMINAR IN NUMERICAL ANALYSIS 1-3 Credit Hours**

(Repeatable for credit) Seminar on current research in numerical analysis.

**Prerequisite:** Doctoral standing; and special approval.

**Schedule Type:** Seminar

**Contact Hours:** 1-3 other

**Grade Mode:** Standard Letter

**MATH 72295 SELECTED TOPICS IN NUMERICAL ANALYSIS 1-3 Credit Hours**

(Repeatable for credit) Topics vary with each offering and complement topics covered in MATH 72251 and MATH 72252.

**Prerequisite:** Doctoral standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 1-3 lecture

**Grade Mode:** Standard Letter

**MATH 72391 SEMINAR IN MEASURE THEORY 1-3 Credit Hours**

(Repeatable for credit) Seminar on current research in measure theory.

**Prerequisite:** Doctoral standing; and special approval.

**Schedule Type:** Seminar

**Contact Hours:** 1-3 other

**Grade Mode:** Standard Letter

**MATH 72491 SEMINAR IN NONLINEAR ANALYSIS 1-3 Credit Hours**

(Repeatable for credit) Seminar on current research in nonlinear analysis.

**Prerequisite:** Doctoral standing; and special approval.

**Schedule Type:** Seminar

**Contact Hours:** 1-3 other

**Grade Mode:** Standard Letter

**MATH 76051 INTRODUCTION TO TOPOLOGY I 4 Credit Hours**

(Slashed with MATH 66051) Set theory, topological spaces, continuity, product spaces, quotient spaces separation axioms, compactness and metrizable.

**Prerequisite:** Doctoral standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 4 lecture

**Grade Mode:** Standard Letter

**MATH 76052 INTRODUCTION TO TOPOLOGY II 3 Credit Hours**

Geometric topology, including connectedness, continua, homotopy, the plane and 2 manifolds.

**Prerequisite:** MATH 66051 or MATH 76051; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MATH 76095 SELECTED TOPICS IN TOPOLOGY 1-3 Credit Hours**

(Repeatable for credit) Topics vary with each offering and complement topics covered in MATH 76051 and MATH 76052.

**Prerequisite:** Doctoral standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 1-3 lecture

**Grade Mode:** Standard Letter

**MATH 77011 ALGEBRAIC NUMBER THEORY 3 Credit Hours**

Number fields and Dedekind domains; conjugates, norm and trace, discriminant, integral bases; arithmetic or quadratic and cyclotomic number fields; theory of ideals and class group; Dirichlet's theorem on units.

**Prerequisite:** MATH 57011; and MATH 61052 or MATH 71052; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MATH 77012 ANALYTIC NUMBER THEORY 3 Credit Hours**

Multiplicative functions and summatory functions, Riemann's Zeta function and the prime number theorem, L-functions and Dirichlet's theorem on primes in arithmetic progressions, asymptotic formula for partitions.

**Prerequisite:** MATH 57011 and MATH 62151 or MATH 72151.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MATH 77091 SEMINAR IN NUMBER THEORY 1-3 Credit Hours**  
(Repeatable for credit) (Slashed with MATH 67091) Seminar on current research in number theory.

**Prerequisite:** Doctoral standing; and special approval.

**Schedule Type:** Seminar

**Contact Hours:** 1-3 other

**Grade Mode:** Standard Letter

**MATH 77095 SELECTED TOPICS IN MATHEMATICS 1-3 Credit Hours**  
(Repeatable for credit) Course topic varies with each offering.

**Prerequisite:** Special approval.

**Schedule Type:** Lecture

**Contact Hours:** 1-3 lecture

**Grade Mode:** Standard Letter

**MATH 77098 RESEARCH I 1-15 Credit Hours**

(Repeatable for credit) Research or individual investigation. Credits are applied toward degree requirements with approval if letter grade of 'S' is given.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Research

**Contact Hours:** 1-15 other

**Grade Mode:** Standard Letter

**MATH 77195 SELECTED TOPICS IN NUMBER THEORY 1-3 Credit Hours**

(Repeatable for credit) Content varies with each offering and complements topics covered in MATH 77011 and MATH 77012.

**Prerequisite:** Doctoral standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 1-3 lecture

**Grade Mode:** Standard Letter

**MATH 77198 RESEARCH II 1-15 Credit Hours**

(Repeatable for credit) Research or individual investigation. Credits are applied toward degree requirements with approval if letter grade of 'S' is given.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Research

**Contact Hours:** 1-15 other

**Grade Mode:** Satisfactory/Unsatisfactory

**MATH 87098 RESEARCH 1-15 Credit Hours**

(Repeatable for credit) Research or individual investigation for doctoral students who have not yet passed their candidacy examinations. Credits earned may be applied toward degree if department approves.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Research

**Contact Hours:** 1-15 other

**Grade Mode:** Standard Letter

**MATH 87199 DISSERTATION I 15 Credit Hours**

(Repeatable for credit) Doctoral dissertation, for which registration in at least two semesters is required first of which will be semester in which dissertation work is begun and continuing until the completion of 30 hours.

**Prerequisite:** Admission to doctoral candidacy; and doctoral standing.

**Schedule Type:** Dissertation

**Contact Hours:** 15 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**MATH 87299 DISSERTATION II 15 Credit Hours**

(Repeatable for credit) Continuing registration required of doctoral students who have completed the initial 30 hours of dissertation and continuing until all degree requirements are met.

**Prerequisite:** MATH 87199; and doctoral standing.

**Schedule Type:** Dissertation

**Contact Hours:** 15 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

## Actuarial Mathematics - B.S.

### College of Arts and Sciences

Department of Mathematical Sciences

233 Mathematics and Computer Science Building

Kent Campus

330-672-2430

math@math.kent.edu

www.kent.edu/math

## Description

The Bachelor of Science degree in Actuarial Mathematics prepares students for the actuarial profession. Actuaries are professionals who manage risk. They predict the likelihood of future events and model the financial impact of future scenarios. They find creative ways to mitigate the undesirable effects of future events. Although most actuaries are employed in the insurance and financial industries, many others work in the transportation, environmental, medical and manufacturing industries, as well as in government.

The Actuarial Mathematics major is highly interdisciplinary, integrating substantial coursework in business, computing and communications with a solid core of mathematics and statistics. Kent State University is one of only four institutions in Ohio to receive the Universities and Colleges with Actuarial Programs-Advanced Curriculum designation from the Society of Actuaries. The Kent State program prepares students for the first four of a series of examinations to receive professional certification as an actuary.

## Fully Offered At:

- Kent Campus

## Admission Requirements

The university affirmatively strives to provide educational opportunities and access to students with varied backgrounds, those with special talents and adult students who graduated from high school three or more years ago.

**Freshman Students on the Kent Campus:** The freshman admission policy on the Kent Campus is selective. Admission decisions are based upon the following: cumulative grade point average, ACT and/or SAT scores, strength of high school college preparatory curriculum and grade trends. The Admissions Office at the Kent Campus may defer the admission of students who do not meet admissions criteria but who demonstrate areas of promise for successful college study. Deferred applicants may begin their college coursework at one of seven regional campuses of Kent State University. For more information on admissions, including additional requirements for some academic programs, visit the admissions website for new freshmen.

**Freshman Students on the Regional Campuses:** Kent State campuses at Ashtabula, East Liverpool, Geauga, Salem, Stark, Trumbull and Tuscarawas, as well as the Regional Academic Center in Twinsburg, have open enrollment admission for students who hold a high school diploma, GED or equivalent.

**English Language Proficiency Requirements for International Students:** All international students must provide proof of English language proficiency (unless they meet specific exceptions) by earning a minimum 525 TOEFL score (71 on the Internet-based version), minimum 75 MELAB score, minimum 6.0 IELTS score or minimum 48 PTE score, or by completing the ESL level 112 Intensive Program. For more information on international admission, visit the Office of Global Education's admission website.

**Transfer, Transitioning and Former Students:** For more information about admission criteria for transfer, transitioning and former students, please visit the admissions website.

## Program Learning Outcomes

Graduates of this program will be able to:

1. Reason mathematically by using precise definitions, articulating assumptions and reasoning logically to conclusions.
2. Engage effectively in problem solving by exploring examples, assessing the correctness of solutions and interpreting solutions in an actuarial context.
3. Define, interpret and apply standard actuarial notation, terminology and formulas.
4. Analyze various streams of cash flows, both certain and contingent.
5. Apply methods from probability, statistics and stochastic processes to the solution of problems in actuarial science, finance and economics.
6. Communicate solutions of mathematical problems clearly, both orally and in writing.
7. Employ commonly used computer programming languages and software packages to solve problems in actuarial science, finance and economics.
8. Demonstrate fundamental knowledge of finance, economics and accounting.

## University Requirements

All students in a bachelor's degree program at Kent State University must complete the following university requirements for graduation.

**NOTE:** University requirements may be fulfilled in this program by specific course requirements. Please see Program Requirements for details.

Destination Kent State: First Year Experience	1
Course is not required for students with 25 transfer credits, excluding College Credit Plus, or age 21+ at time of admission.	
Diversity Domestic/Global (DIVD/DIVG)	2 courses
Students must successfully complete one domestic and one global course, of which one must be from the Kent Core.	
Experiential Learning Requirement (ELR)	varies
Students must successfully complete one course or approved experience.	
Kent Core (see table below)	36-37
Writing-Intensive Course (WIC)	1 course

Students must earn a minimum C grade in the course.

Upper-Division Requirement	39 (or 42)
Students must successfully complete 39 upper-division (numbered 30000 to 49999) credit hours to graduate. Students in a B.A. and/or B.S. degree in the College of Arts and Sciences must complete 42 upper-division credit hours.	
Total Credit Hour Requirement	120
Some bachelor's degrees require students to complete more than 120 credit hours.	

## Kent Core Requirements

Kent Core Composition (KCMP)	6
Kent Core Mathematics and Critical Reasoning (KMCR)	3
Kent Core Humanities and Fine Arts (KHUM/KFA) (min one course each)	9
Kent Core Social Sciences (KSS) (must be from two disciplines)	6
Kent Core Basic Sciences (KBS/KLAB) (must include one laboratory)	6-7
Kent Core Additional (KADL)	6
<b>Total Credit Hours:</b>	<b>36-37</b>

## Program Requirements

### Major Requirements

Code	Title	Credit Hours
<b>Major Requirements (courses count in major GPA)</b>		
ACCT 23020	INTRODUCTION TO FINANCIAL ACCOUNTING <sup>1</sup>	3
ECON 22060	PRINCIPLES OF MICROECONOMICS (KSS) <sup>1</sup>	3
ECON 22061	PRINCIPLES OF MACROECONOMICS (KSS) <sup>1</sup>	3
ECON 32050	APPLIED ECONOMETRICS I (ELR)	3
FIN 36053	BUSINESS FINANCE <sup>1</sup>	3
MATH 12002	ANALYTIC GEOMETRY AND CALCULUS I (KMCR) (min C grade)	5
MATH 12003	ANALYTIC GEOMETRY AND CALCULUS II (min C grade)	5
MATH 20011	DECISION-MAKING UNDER UNCERTAINTY	3
MATH 21001	LINEAR ALGEBRA (min C grade)	3
MATH 22005	ANALYTIC GEOMETRY AND CALCULUS III (min C grade)	4
MATH 30055	MATHEMATICAL THEORY OF INTEREST (min C grade)	3
MATH 31011	PROOFS IN DISCRETE MATHEMATICS	3
MATH 32044	ORDINARY DIFFERENTIAL EQUATIONS	3
MATH 40011	PROBABILITY THEORY AND APPLICATIONS (min C grade)	3
MATH 40012	THEORY OF STATISTICS	3
MATH 40055	ACTUARIAL MATHEMATICS I (ELR) (WIC) (min C grade) <sup>2</sup>	4
MATH 40056	ACTUARIAL MATHEMATICS II	4
MATH 40059	STOCHASTIC ACTUARIAL MODELS	3
Computer Science Elective, choose from the following:		
CS 10062	PROGRAMMING FOR PROBLEM SOLVING IN SCIENCES	4
CS 13001	COMPUTER SCIENCE I: PROGRAMMING AND PROBLEM SOLVING	
CS 13011 & CS 13012	COMPUTER SCIENCE IA: PROCEDURAL PROGRAMMING and COMPUTER SCIENCE IB: OBJECT ORIENTED PROGRAMMING	

Mathematics Electives, choose from the following:	6	CS 43006	THEORY OF OBJECT-ORIENTED PROGRAMMING
MATH 40015	APPLIED STATISTICS	CS 43111	STRUCTURE OF COMPILERS
MATH 40024	COMPUTATIONAL STATISTICS	CS 43202	SYSTEMS ADMINISTRATION
MATH 40028	STATISTICAL LEARNING	CS 43203	SYSTEMS PROGRAMMING
MATH 40051	TOPICS IN PROBABILITY THEORY AND STOCHASTIC PROCESSES	CS 43301	SOFTWARE DEVELOPMENT FOR ROBOTICS
MATH 41021	THEORY OF MATRICES	CS 43305	ADVANCED DIGITAL DESIGN
MATH 42001	ANALYSIS I (ELR) (WIC) <sup>2</sup>	CS 43401	SECURE PROGRAMMING
MATH 42002	ANALYSIS II (ELR) (WIC) <sup>2</sup>	CS 44001	COMPUTER SCIENCE III-PROGRAMMING PATTERNS
MATH 42011	MATHEMATICAL OPTIMIZATION	CS 44003	MOBILE APPS IN IOS PROGRAMMING
MATH 42021	GRAPH THEORY AND COMBINATORICS	CS 44105	WEB PROGRAMMING I
MATH 42031	MATHEMATICAL MODELS AND DYNAMICAL SYSTEMS	CS 44106	WEB PROGRAMMING II
MATH 42039	MODELING PROJECTS (ELR) (WIC) <sup>2</sup>	CS 44201	ARTIFICIAL INTELLIGENCE
MATH 42041	ADVANCED CALCULUS	CS 45203	COMPUTER NETWORK SECURITY
MATH 42045	PARTIAL DIFFERENTIAL EQUATIONS	CS 45231	INTERNET ENGINEERING
MATH 42048	COMPLEX VARIABLES	CS 46101	DESIGN AND ANALYSIS OF ALGORITHMS
MATH 42201	NUMERICAL COMPUTING I	CS 47101	COMPUTER GRAPHICS
MATH 42202	NUMERICAL COMPUTING II	CS 47205	INFORMATION SECURITY
MATH 45011	DIFFERENTIAL GEOMETRY	CS 47206	DATA SECURITY AND PRIVACY
Allied Area Elective, choose from the following: <sup>3</sup>	3	CS 47207	DIGITAL FORENSICS
ACCT 33001	INTERMEDIATE FINANCIAL ACCOUNTING I	CS 47221	INTRODUCTION TO CRYPTOLOGY
ACCT 33004	INTRODUCTION TO ACCOUNTING SYSTEMS	CS 48101	GAME ENGINE CONCEPTS
ACCT 33010	COST ACCOUNTING	ECON 32025	MONEY, CREDIT AND BANKING
ACCT 33012	INTERMEDIATE FINANCIAL ACCOUNTING II	ECON 32040	INTERMEDIATE MICROECONOMIC THEORY AND APPLICATIONS
ACCT 43020	ADVANCED FINANCIAL ACCOUNTING	ECON 32041	INTERMEDIATE MACROECONOMIC THEORY AND POLICY
ACCT 43087	INTERNATIONAL ACCOUNTING EXPERIENCE	ECON 32051	APPLIED ECONOMETRICS II
BSCI 30050	HUMAN GENETICS	ECON 42050	DATA ACQUISITION, PREPARATION AND VISUALIZATION
BSCI 40020	BIOLOGY OF AGING	ECON 42065	PROBLEMS OF MONETARY AND FISCAL POLICY
BUS 30187	INTERNATIONAL BUSINESS EXPERIENCE	ECON 42070	GAME THEORY
BUS 30234	INTERNATIONAL BUSINESS	ECON 42085	PUBLIC ECONOMICS: GOVERNMENT AND POLICY
CHEM 30050	INTRODUCTION TO MATERIALS CHEMISTRY	ECON 42086	ECONOMICS OF HEALTH CARE
CHEM 30105	ANALYTICAL CHEMISTRY I	FIN 36054	INTERMEDIATE CORPORATE FINANCE
CHEM 30106	ANALYTICAL CHEMISTRY II	FIN 36059	INTERMEDIATE INVESTMENTS
CHEM 30301	INORGANIC CHEMISTRY I	FIN 36081	PRINCIPLES OF INSURANCE
CHEM 40302	INORGANIC CHEMISTRY II	FIN 36085	ADVANCED FINANCIAL MODELING
CHEM 40303	INORGANIC CHEMISTRY III	FIN 46054	FINANCIAL RISK MANAGEMENT
CHEM 40555	PHYSICAL CHEMISTRY I	FIN 46055	ADVANCED DERIVATIVE SECURITIES
CHEM 40556	PHYSICAL CHEMISTRY II	FIN 46064	INTERNATIONAL BUSINESS FINANCE
CHEM 40559	NANOMATERIALS	FIN 46067	ADVANCED PORTFOLIO ANALYSIS
CIS 34032	DATA AND FILE TECHNOLOGY	FIN 46087	INTERNATIONAL FINANCE EXPERIENCE
CIS 34068	SYSTEMS ANALYSIS AND DESIGN	GEOG 31062	FUNDAMENTALS OF METEOROLOGY
CIS 34070	PROGRAMMING THEORY AND APPLICATIONS	GEOG 31064	PRINCIPLES OF CLIMATOLOGY
CIS 44033	ADVANCED COMPUTER PROGRAMMING FOR BUSINESS	GEOG 35065	GEOGRAPHY OF TRANSPORTATION AND SPATIAL INTERACTION
CIS 44043	DATA MANAGEMENT AND BUSINESS INTELLIGENCE I	GEOG 39002	STATISTICAL METHODS IN GEOGRAPHY
CIS 44045	INFORMATION SYSTEMS MANAGEMENT	GEOG 41065	APPLIED CLIMATOLOGY
CIS 44048	CLOUD SYSTEMS INTEGRATION (ELR) (WIC)	GEOG 44070	SPATIAL ANALYSIS AND LOCATION THEORY
CS 33007	INTRODUCTION TO DATABASE SYSTEM DESIGN	GEOG 49070	GEOGRAPHIC INFORMATION SCIENCE
CS 33101	STRUCTURE OF PROGRAMMING LANGUAGES	GEOG 49080	ADVANCED GEOGRAPHIC INFORMATION SCIENCE
CS 33211	OPERATING SYSTEMS	GEOG 49085	WEB AND MOBILE GEOGRAPHIC INFORMATION SCIENCE
CS 33901	SOFTWARE ENGINEERING		
CS 35101	COMPUTER ORGANIZATION		
CS 35201	COMPUTER COMMUNICATION NETWORKS		
CS 38101	INTRODUCTION TO GAME PROGRAMMING		



GEOG 49162	CARTOGRAPHY
GEOG 49230	REMOTE SENSING
GEOL 31080	STRUCTURAL GEOLOGY
GEOL 32066	GEOMORPHOLOGY
GEOL 41025	GENERAL GEOPHYSICS
GEOL 41080	TECTONICS AND OROGENY
GEOL 42030	REMOTE SENSING
GEOL 42035	SCIENTIFIC METHODS IN GEOLOGY
MATH 40015	APPLIED STATISTICS
MATH 40024	COMPUTATIONAL STATISTICS
MATH 40028	STATISTICAL LEARNING
MATH 40051	TOPICS IN PROBABILITY THEORY AND STOCHASTIC PROCESSES
MATH 41001	MODERN ALGEBRA I (ELR) (WIC)
MATH 41002	MODERN ALGEBRA II (ELR) (WIC)
MATH 41021	THEORY OF MATRICES
MATH 42001	ANALYSIS I (ELR) (WIC)
MATH 42002	ANALYSIS II (ELR) (WIC)
MATH 42011	MATHEMATICAL OPTIMIZATION
MATH 42021	GRAPH THEORY AND COMBINATORICS
MATH 42031	MATHEMATICAL MODELS AND DYNAMICAL SYSTEMS
MATH 42039	MODELING PROJECTS (ELR) (WIC)
MATH 42041	ADVANCED CALCULUS
MATH 42045	PARTIAL DIFFERENTIAL EQUATIONS
MATH 42048	COMPLEX VARIABLES
MATH 42201	NUMERICAL COMPUTING I
MATH 42202	NUMERICAL COMPUTING II
MATH 45011	DIFFERENTIAL GEOMETRY
MATH 45021	EUCLIDEAN GEOMETRY
MATH 45022	LINEAR GEOMETRY
MATH 46001	ELEMENTARY TOPOLOGY
MATH 47011	THEORY OF NUMBERS
MATH 47021	HISTORY OF MATHEMATICS
MGMT 34060	OPERATIONS MANAGEMENT
PHIL 41035	PHILOSOPHY OF SCIENCE
PHIL 41038	INTERMEDIATE LOGIC
PHIL 41045	METALOGIC
PHY 34000	COSMOLOGY
PHY 35101	CLASSICAL MECHANICS
PHY 36001	INTRODUCTORY MODERN PHYSICS
PHY 36002	APPLICATIONS OF MODERN PHYSICS
PHY 44802	ASTROPHYSICS
PHY 45201	ELECTROMAGNETIC THEORY
PHY 45301	THERMAL PHYSICS
PHY 45401	MATHEMATICAL METHODS IN PHYSICS
PHY 45403	DATA ANALYSIS AND COMPUTATIONAL PHYSICS TECHNIQUES
PHY 45501	ELECTROMAGNETIC WAVES AND MODERN OPTICS
PHY 46101	QUANTUM MECHANICS
PHY 46301	INTRODUCTION TO NUCLEAR AND PARTICLE PHYSICS
PHY 46401	INTRODUCTION TO SOLID STATE PHYSICS
<b>Additional Requirements (courses do not count in major GPA)</b>	
COMM 15000	INTRODUCTION TO HUMAN COMMUNICATION (KADL) 3

UC 10097	DESTINATION KENT STATE: FIRST YEAR EXPERIENCE	1
Foreign Language Requirement (see Foreign Language College Requirement)		8
Kent Core Composition		6
Kent Core Humanities and Fine Arts (minimum one course from each)		9
Kent Core Social Sciences (must be from two disciplines)		3
Kent Core Basic Sciences (must include one laboratory)		6-7
General Electives (total credit hours depends on earning 120 credit hours, including 42 upper-division credit hours)		10
Minimum Total Credit Hours:		120

- 1 These courses with a minimum B- grade fulfill the Validation by Educational Experience (VEE) requirements jointly sponsored by the Society of Actuaries, Casualty Actuarial Society and Canadian Institute of Actuaries.
- 2 A minimum C grade must be earned to fulfill the writing-intensive course requirement.
- 3 A course may only count for one requirement even though it may appear in more than one course list.

## Graduation Requirements

Minimum Major GPA	Minimum Overall GPA
2.000	2.000

### Foreign Language College Requirement

- Students pursuing the Bachelor of Science degree in the College of Arts and Sciences must complete 8 credit hours of foreign language.<sup>1</sup>
- Minimum Elementary I and II of the same language

- 1 All students with prior foreign language experience should take the foreign language placement test to determine the appropriate level at which to start. Some students may begin their university foreign language experience beyond the Elementary I level and will complete the requirement with fewer credit hours and fewer courses. This may be accomplished by: (1) passing a course beyond the Elementary I through Intermediate II level or (2) receiving credit through Credit by Exam (CBE), the College Level Examination Program (CLEP), the Advanced Placement (AP) exam or credit through the International Baccalaureate (IB) program; or (3) being designated a 'native speaker' of a non-English language (consult with the College of Arts and Sciences Advising Office for additional Information) . When students complete the requirement with fewer than 8 credit hours and two courses, they will complete the remaining hours with general electives.

## Roadmap

This roadmap is a recommended semester-by-semester plan of study for this major. However, courses designated as critical (!) must be completed in the semester listed to ensure a timely graduation.

Semester One		Credits
COMM 15000	INTRODUCTION TO HUMAN COMMUNICATION (KADL)	3
MATH 12002	ANALYTIC GEOMETRY AND CALCULUS I (KMCR)	5
UC 10097	DESTINATION KENT STATE: FIRST YEAR EXPERIENCE	1
Computer Science Elective		4

Kent Core Requirement		3
Credit Hours		16
<b>Semester Two</b>		
MATH 12003	ANALYTIC GEOMETRY AND CALCULUS II	5
MATH 20011	DECISION-MAKING UNDER UNCERTAINTY	3
MATH 21001	LINEAR ALGEBRA	3
Kent Core Requirement		3
Kent Core Requirement		3
Credit Hours		17
<b>Semester Three</b>		
ECON 22060	PRINCIPLES OF MICROECONOMICS (KSS)	3
MATH 22005	ANALYTIC GEOMETRY AND CALCULUS III	4
MATH 30055	MATHEMATICAL THEORY OF INTEREST	3
MATH 31011	PROOFS IN DISCRETE MATHEMATICS	3
Foreign Language		4
Credit Hours		17
<b>Semester Four</b>		
ECON 22061	PRINCIPLES OF MACROECONOMICS (KSS)	3
MATH 32044	ORDINARY DIFFERENTIAL EQUATIONS	3
MATH 40011	PROBABILITY THEORY AND APPLICATIONS	3
Kent Core Requirement		3
Foreign Language		4
Credit Hours		16
<b>Semester Five</b>		
ACCT 23020	INTRODUCTION TO FINANCIAL ACCOUNTING	3
MATH 40055	ACTUARIAL MATHEMATICS I (ELR) (WIC)	4
Mathematics Elective		3
Kent Core Requirement		3
Credit Hours		13
<b>Semester Six</b>		
FIN 36053	BUSINESS FINANCE	3
MATH 40012	THEORY OF STATISTICS	3
MATH 40056	ACTUARIAL MATHEMATICS II	4
Kent Core Requirement		3
Kent Core Requirement		3
Credit Hours		16
<b>Semester Seven</b>		
Allied Area Elective		3
Mathematics Elective		3
Kent Core Requirement		3
General Electives		6
Credit Hours		15
<b>Semester Eight</b>		
ECON 32050	APPLIED ECONOMETRICS I (ELR)	3
MATH 40059	STOCHASTIC ACTUARIAL MODELS	3
General Electives		4
Credit Hours		10
Minimum Total Credit Hours:		120

[www.kent.edu/math](http://www.kent.edu/math)

## Description

The Bachelor of Science degree in Applied Mathematics emphasizes the tools most useful in science, engineering and technology applications: mathematical modeling, scientific computing and probability and statistics.

The Applied Mathematics major comprises the following concentrations:

- The **Applied Mathematics** concentration emphasizes the classical aspects of the discipline, which are rooted in mathematical modeling and applications in the sciences. It couples well with the Physics minor or major.
- The **Computational Mathematics** concentration is designed for students with interests in numerical modeling and scientific computing. It pairs well with the Computer Science minor or major.
- The **Financial Mathematics** concentration prepares students for graduate programs in mathematical or computational finance or financial engineering.
- The **Probability and Statistics** concentration emphasizes the mathematics underlying processes that involve randomness and the mathematical tools used in the analysis of data.

## Fully Offered At:

- Kent Campus

## Admission Requirements

The university affirmatively strives to provide educational opportunities and access to students with varied backgrounds, those with special talents and adult students who graduated from high school three or more years ago.

**Freshman Students on the Kent Campus:** The freshman admission policy on the Kent Campus is selective. Admission decisions are based upon the following: cumulative grade point average, ACT and/or SAT scores, strength of high school college preparatory curriculum and grade trends. The Admissions Office at the Kent Campus may defer the admission of students who do not meet admissions criteria but who demonstrate areas of promise for successful college study. Deferred applicants may begin their college coursework at one of seven regional campuses of Kent State University. For more information on admissions, including additional requirements for some academic programs, visit the admissions website for new freshmen.

**Freshman Students on the Regional Campuses:** Kent State campuses at Ashtabula, East Liverpool, Geauga, Salem, Stark, Trumbull and Tuscarawas, as well as the Regional Academic Center in Twinsburg, have open enrollment admission for students who hold a high school diploma, GED or equivalent.

**English Language Proficiency Requirements for International Students:** All international students must provide proof of English language proficiency (unless they meet specific exceptions) by earning a minimum 525 TOEFL score (71 on the Internet-based version), minimum 75 MELAB score, minimum 6.0 IELTS score or minimum 48 PTE score, or by completing the ESL level 112 Intensive Program. For more information on

# Applied Mathematics - B.S.

## College of Arts and Sciences

Department of Mathematical Sciences

233 Mathematics and Computer Science Building

Kent Campus

330-672-2430

[math@math.kent.edu](mailto:math@math.kent.edu)

international admission, visit the Office of Global Education's admission website.

**Transfer, Transitioning and Former Students:** For more information about admission criteria for transfer, transitioning and former students, please visit the admissions website.

## University Requirements

All students in a bachelor's degree program at Kent State University must complete the following university requirements for graduation.

**NOTE:** University requirements may be fulfilled in this program by specific course requirements. Please see Program Requirements for details.

Destination Kent State: First Year Experience	1
Course is not required for students with 25 transfer credits, excluding College Credit Plus, or age 21+ at time of admission.	
Diversity Domestic/Global (DIVD/DIVG)	2 courses
Students must successfully complete one domestic and one global course, of which one must be from the Kent Core.	
Experiential Learning Requirement (ELR)	varies
Students must successfully complete one course or approved experience.	
Kent Core (see table below)	36-37
Writing-Intensive Course (WIC)	1 course
Students must earn a minimum C grade in the course.	
Upper-Division Requirement	39 (or 42)
Students must successfully complete 39 upper-division (numbered 30000 to 49999) credit hours to graduate. Students in a B.A. and/or B.S. degree in the College of Arts and Sciences must complete 42 upper-division credit hours.	
Total Credit Hour Requirement	120
Some bachelor's degrees require students to complete more than 120 credit hours.	

## Kent Core Requirements

Kent Core Composition (KCMP)	6
Kent Core Mathematics and Critical Reasoning (KMCR)	3
Kent Core Humanities and Fine Arts (KHUM/KFA) (min one course each)	9
Kent Core Social Sciences (KSS) (must be from two disciplines)	6
Kent Core Basic Sciences (KBS/KLAB) (must include one laboratory)	6-7
Kent Core Additional (KADL)	6
<b>Total Credit Hours:</b>	<b>36-37</b>

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## Program Requirements

### Major Requirements

Code	Title	Credit Hours
<b>Major Requirements (courses count in major GPA) <sup>1</sup></b>		
CS 13011 & CS 13012	COMPUTER SCIENCE IA: PROCEDURAL PROGRAMMING and COMPUTER SCIENCE IB: OBJECT ORIENTED PROGRAMMING (min C grade in both 13011 & 13012 or in 13001)	4
or CS 13001	COMPUTER SCIENCE I: PROGRAMMING AND PROBLEM SOLVING	
MATH 12002	ANALYTIC GEOMETRY AND CALCULUS I (KMCR) (min C grade)	5
MATH 12003	ANALYTIC GEOMETRY AND CALCULUS II (min C grade)	5
MATH 20011	DECISION-MAKING UNDER UNCERTAINTY <sup>2</sup>	3
MATH 21001	LINEAR ALGEBRA (min C grade)	3
MATH 22005	ANALYTIC GEOMETRY AND CALCULUS III (min C grade)	4
MATH 32044	ORDINARY DIFFERENTIAL EQUATIONS (min C grade)	3
MATH 40011	PROBABILITY THEORY AND APPLICATIONS (min C grade)	3
MATH 40012	THEORY OF STATISTICS	3
MATH 41021	THEORY OF MATRICES	3
MATH 42031	MATHEMATICAL MODELS AND DYNAMICAL SYSTEMS (min C grade)	3
MATH 42039	MODELING PROJECTS (ELR) (WIC) <sup>3</sup>	3
MATH 42201	NUMERICAL COMPUTING I (min C grade)	3
MATH 42202	NUMERICAL COMPUTING II	3
PHY 23101	GENERAL UNIVERSITY PHYSICS I (KBS) (KLAB)	5
PHY 23102	GENERAL UNIVERSITY PHYSICS II (KBS) (KLAB)	5
Allied Area Electives, choose from the following: <sup>4</sup>		6
BSCI 30050	HUMAN GENETICS	
BSCI 40020	BIOLOGY OF AGING	
CHEM 30050	INTRODUCTION TO MATERIALS CHEMISTRY	
CHEM 30105	ANALYTICAL CHEMISTRY I	
CHEM 30106	ANALYTICAL CHEMISTRY II	
CHEM 30301	INORGANIC CHEMISTRY I	
CHEM 40302	INORGANIC CHEMISTRY II	
CHEM 40303	INORGANIC CHEMISTRY III	
CHEM 40555	PHYSICAL CHEMISTRY I	
CHEM 40556	PHYSICAL CHEMISTRY II	
CHEM 40559	NANOMATERIALS	
CS 33007	INTRODUCTION TO DATABASE SYSTEM DESIGN	
CS 33101	STRUCTURE OF PROGRAMMING LANGUAGES	
CS 33211	OPERATING SYSTEMS	
CS 33901	SOFTWARE ENGINEERING	
CS 35101	COMPUTER ORGANIZATION	
CS 35201	COMPUTER COMMUNICATION NETWORKS	
CS 38101	INTRODUCTION TO GAME PROGRAMMING	
CS 43006	THEORY OF OBJECT-ORIENTED PROGRAMMING	
CS 43111	STRUCTURE OF COMPILERS	
CS 43202	SYSTEMS ADMINISTRATION	
CS 43203	SYSTEMS PROGRAMMING	
CS 43301	SOFTWARE DEVELOPMENT FOR ROBOTICS	
CS 43305	ADVANCED DIGITAL DESIGN	
CS 43401	SECURE PROGRAMMING	
CS 44001	COMPUTER SCIENCE III-PROGRAMMING PATTERNS	
CS 44003	MOBILE APPS IN IOS PROGRAMMING	
CS 44105	WEB PROGRAMMING I	
CS 44106	WEB PROGRAMMING II	
CS 44201	ARTIFICIAL INTELLIGENCE	
CS 45203	COMPUTER NETWORK SECURITY	
CS 45231	INTERNET ENGINEERING	
CS 46101	DESIGN AND ANALYSIS OF ALGORITHMS	
CS 47101	COMPUTER GRAPHICS	
CS 47205	INFORMATION SECURITY	
CS 47206	DATA SECURITY AND PRIVACY	
CS 47207	DIGITAL FORENSICS	
CS 47221	INTRODUCTION TO CRYPTOLOGY	
CS 48101	GAME ENGINE CONCEPTS	
ECON 32025	MONEY, CREDIT AND BANKING	
ECON 32040	INTERMEDIATE MICROECONOMIC THEORY AND APPLICATIONS	
ECON 32041	INTERMEDIATE MACROECONOMIC THEORY AND POLICY	
ECON 32050	APPLIED ECONOMETRICS I (ELR)	
ECON 42050	DATA ACQUISITION, PREPARATION AND VISUALIZATION	
FIN 36054	INTERMEDIATE CORPORATE FINANCE	
FIN 36059	INTERMEDIATE INVESTMENTS	
FIN 46055	ADVANCED DERIVATIVE SECURITIES	
FIN 46064	INTERNATIONAL BUSINESS FINANCE	
FIN 46067	ADVANCED PORTFOLIO ANALYSIS	
GEOG 31062	FUNDAMENTALS OF METEOROLOGY	
GEOG 31064	PRINCIPLES OF CLIMATOLOGY	
GEOG 34070	ECONOMIC GEOGRAPHY	
GEOG 35065	GEOGRAPHY OF TRANSPORTATION AND SPATIAL INTERACTION	
GEOG 39002	STATISTICAL METHODS IN GEOGRAPHY	
GEOG 41065	APPLIED CLIMATOLOGY	
GEOG 44070	SPATIAL ANALYSIS AND LOCATION THEORY	
GEOG 49070	GEOGRAPHIC INFORMATION SCIENCE	
GEOG 49080	ADVANCED GEOGRAPHIC INFORMATION SCIENCE	
GEOG 49085	WEB AND MOBILE GEOGRAPHIC INFORMATION SCIENCE	
GEOG 49162	CARTOGRAPHY	
GEOG 49230	REMOTE SENSING	
GEOL 31080	STRUCTURAL GEOLOGY	
GEOL 32066	GEOMORPHOLOGY	
GEOL 41025	GENERAL GEOPHYSICS	
GEOL 41080	TECTONICS AND OROGENY	
GEOL 42030	REMOTE SENSING	
GEOL 42035	SCIENTIFIC METHODS IN GEOLOGY	
MATH 30055	MATHEMATICAL THEORY OF INTEREST	
MATH 31011	PROOFS IN DISCRETE MATHEMATICS	
MATH 40028	STATISTICAL LEARNING	
MATH 40051	TOPICS IN PROBABILITY THEORY AND STOCHASTIC PROCESSES	

MATH 40055	ACTUARIAL MATHEMATICS I (ELR) (WIC)
MATH 40056	ACTUARIAL MATHEMATICS II
MATH 40059	STOCHASTIC ACTUARIAL MODELS
MATH 41001	MODERN ALGEBRA I (ELR) (WIC)
MATH 41002	MODERN ALGEBRA II (ELR) (WIC)
MATH 42001	ANALYSIS I (ELR) (WIC)
MATH 42002	ANALYSIS II (ELR) (WIC)
MATH 42011	MATHEMATICAL OPTIMIZATION
MATH 42021	GRAPH THEORY AND COMBINATORICS
MATH 42024	NUMBERS AND GAMES
MATH 42041	ADVANCED CALCULUS
MATH 42045	PARTIAL DIFFERENTIAL EQUATIONS
MATH 42048	COMPLEX VARIABLES
MATH 45011	DIFFERENTIAL GEOMETRY
MATH 45021	EUCLIDEAN GEOMETRY
MATH 45022	LINEAR GEOMETRY
MATH 46001	ELEMENTARY TOPOLOGY
MATH 47011	THEORY OF NUMBERS
MATH 47021	HISTORY OF MATHEMATICS
PHIL 41035	PHILOSOPHY OF SCIENCE
PHIL 41038	INTERMEDIATE LOGIC
PHIL 41045	METALOGIC
PHY 35101	CLASSICAL MECHANICS
PHY 34000	COSMOLOGY
PHY 36001	INTRODUCTORY MODERN PHYSICS
PHY 36002	APPLICATIONS OF MODERN PHYSICS
PHY 44802	ASTROPHYSICS
PHY 45201	ELECTROMAGNETIC THEORY
PHY 45301	THERMAL PHYSICS
PHY 45401	MATHEMATICAL METHODS IN PHYSICS
PHY 45403	DATA ANALYSIS AND COMPUTATIONAL PHYSICS TECHNIQUES
PHY 45501	ELECTROMAGNETIC WAVES AND MODERN OPTICS
PHY 46101	QUANTUM MECHANICS
PHY 46301	INTRODUCTION TO NUCLEAR AND PARTICLE PHYSICS
PHY 46401	INTRODUCTION TO SOLID STATE PHYSICS

<b>Additional Requirements (courses do not count in major GPA)</b>	
UC 10097	DESTINATION KENT STATE: FIRST YEAR EXPERIENCE 1
Foreign Language (see Foreign Language College Requirement below)	8
Kent Core Composition	6
Kent Core Humanities and Fine Arts (minimum one course from each)	9
Kent Core Social Sciences (must be from two disciplines)	3
Kent Core Additional	3
General Electives (total credit hours depends on earning 120 credit hours, including 42 upper-division credit hours)	7
<b>Concentrations</b>	
Choose from the following:	19
Applied Mathematics	
Computational Mathematics	
Financial Mathematics	
Probability and Statistics	

Minimum Total Credit Hours: 120

<sup>1</sup> MATH 30011, MATH 34001 and MATH 34002 cannot be applied to the major requirements

- <sup>2</sup> Minimum C grade required for Computational Mathematics and Probability and Statistics concentrations only.
- <sup>3</sup> A minimum C grade must be earned to fulfill the writing-intensive requirement.
- <sup>4</sup> A course may only count for one requirement even though it may appear more than once.

### Applied Mathematics Concentration Requirements

Code	Title	Credit Hours
<b>Concentration Requirements (courses count in major GPA)</b>		
MATH 42041	ADVANCED CALCULUS	3
MATH 42045	PARTIAL DIFFERENTIAL EQUATIONS	3
MATH 42048	COMPLEX VARIABLES	3
<b>Additional Requirements (courses do not count in major GPA)</b>		
Kent Core Social Sciences (must be from two disciplines)		3
Kent Core Additional		3
General Elective		4
Minimum Total Credit Hours:		19

### Computational Mathematics Concentration Requirements

Code	Title	Credit Hours
<b>Concentration Requirements (courses count in major GPA)</b>		
CS 23001	COMPUTER SCIENCE II: DATA STRUCTURES AND ABSTRACTION	4
MATH 23022	DISCRETE STRUCTURES FOR COMPUTER SCIENCE	3
MATH 40024	COMPUTATIONAL STATISTICS	3
MATH 42011	MATHEMATICAL OPTIMIZATION	3
<b>Additional Requirements (courses do not count in major GPA)</b>		
Kent Core Social Sciences (must be from two disciplines)		3
Kent Core Additional		3
Minimum Total Credit Hours:		19

### Financial Mathematics Concentration Requirements

Code	Title	Credit Hours
<b>Concentration Requirements (courses count in major GPA)</b>		
ACCT 23020	INTRODUCTION TO FINANCIAL ACCOUNTING	3
FIN 36053	BUSINESS FINANCE	3
MATH 40051	TOPICS IN PROBABILITY THEORY AND STOCHASTIC PROCESSES	3
MATH 42045	PARTIAL DIFFERENTIAL EQUATIONS	3
<b>Additional Requirements (courses do not count in major GPA)</b>		
ECON 22060	PRINCIPLES OF MICROECONOMICS (KSS)	3
ECON 22061	PRINCIPLES OF MACROECONOMICS (KSS)	3
General Elective		1
Minimum Total Credit Hours:		19

### Probability and Statistics Concentration Requirements

Code	Title	Credit Hours
<b>Concentration Requirements (courses count in major GPA)</b>		
MATH 40051	TOPICS IN PROBABILITY THEORY AND STOCHASTIC PROCESSES	3
MATH 40015	APPLIED STATISTICS	3



MATH 40024	COMPUTATIONAL STATISTICS	3
<b>Additional Requirements (courses do not count in major GPA)</b>		
Kent Core Social Sciences (must be from two disciplines)		3
Kent Core Additional		3
General Electives		4
Minimum Total Credit Hours:		19

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## GRADUATION REQUIREMENTS

Minimum Major GPA	Minimum Overall GPA
2.000	2.000

- A minimum grade may be required in some courses

### Foreign Language College Requirement

- Students pursuing the Bachelor of Science degree in the College of Arts and Sciences must complete 8 credit hours of foreign language.<sup>1</sup>
- Minimum Elementary I and II of the same language

<sup>1</sup> All students with prior foreign language experience should take the foreign language placement test to determine the appropriate level at which to start. Some students may begin their university foreign language experience beyond the Elementary I level and will complete the requirement with fewer credit hours and fewer courses. This may be accomplished by: (1) passing a course beyond the Elementary I through Intermediate II level or (2) receiving credit through Credit by Exam (CBE), the College Level Examination Program (CLEP), the Advanced Placement (AP) exam or credit through the International Baccalaureate (IB) program; or (3) being designated a 'native speaker' of a non-English language (consult with the College of Arts and Sciences Advising Office for additional information) . When students complete the requirement with fewer than 8 credit hours and two courses, they will complete the remaining hours with general electives.

# Roadmaps

- Applied Mathematics Concentration
- Computational Mathematics Concentration
- Financial Mathematics Concentration
- Probability and Statistics Concentration

## APPLIED MATHEMATICS CONCENTRATION

This roadmap is a recommended semester-by-semester plan of study for this major. However, courses designated as critical (!) must be completed in the semester listed to ensure a timely graduation.

Semester One		Credits
!	MATH 12002 ANALYTIC GEOMETRY AND CALCULUS I (KMCR)	5
	CS 13011 COMPUTER SCIENCE IA: PROCEDURAL PROGRAMMING & CS 13012 or CS 13001 and COMPUTER SCIENCE IB: OBJECT ORIENTED PROGRAMMING or COMPUTER SCIENCE I: PROGRAMMING AND PROBLEM SOLVING	4
	UC 10097 DESTINATION KENT STATE: FIRST YEAR EXPERIENCE	1
	Kent Core Requirement	3
	Foreign Language	4
Credit Hours		17
Semester Two		Credits
!	MATH 12003 ANALYTIC GEOMETRY AND CALCULUS II	5
	MATH 20011 DECISION-MAKING UNDER UNCERTAINTY	3
	Kent Core Requirement	3
	Foreign Language	4
Credit Hours		15
Semester Three		Credits
!	MATH 22005 ANALYTIC GEOMETRY AND CALCULUS III	4
	MATH 21001 LINEAR ALGEBRA	3
	PHY 23101 GENERAL UNIVERSITY PHYSICS I (KBS) (KLAB)	5
	Kent Core Requirement	3
Credit Hours		15
Semester Four		Credits
	MATH 41021 THEORY OF MATRICES	3
	PHY 23102 GENERAL UNIVERSITY PHYSICS II (KBS) (KLAB)	5
	Kent Core Requirement	3
	Kent Core Requirement	3
Credit Hours		14
Semester Five		Credits
!	MATH 32044 ORDINARY DIFFERENTIAL EQUATIONS	3
!	MATH 42031 MATHEMATICAL MODELS AND DYNAMICAL SYSTEMS or MATH 42201 or NUMERICAL COMPUTING I	3
!	MATH 42041 ADVANCED CALCULUS or MATH 42048 or COMPLEX VARIABLES	3
	Allied Area Electives	3
	Kent Core Requirement	3
Credit Hours		15
Semester Six		Credits
!	MATH 42039 MODELING PROJECTS (ELR) (WIC) or MATH 42202 or NUMERICAL COMPUTING II	3
!	MATH 42045 PARTIAL DIFFERENTIAL EQUATIONS	3

	Allied Area Elective	3
	Kent Core Requirement	3
	Kent Core Requirement	3
Credit Hours		15
Semester Seven		Credits
!	MATH 40011 PROBABILITY THEORY AND APPLICATIONS	3
!	MATH 42031 MATHEMATICAL MODELS AND DYNAMICAL SYSTEMS or MATH 42201 or NUMERICAL COMPUTING I	3
!	MATH 42041 ADVANCED CALCULUS or MATH 42048 or COMPLEX VARIABLES	3
	General Electives	3
	Kent Core Requirement	3
Credit Hours		15
Semester Eight		Credits
!	MATH 40012 THEORY OF STATISTICS	3
!	MATH 42039 MODELING PROJECTS (ELR) (WIC) or MATH 42202 or NUMERICAL COMPUTING II	3
	General Elective	8
Credit Hours		14
Minimum Total Credit Hours:		120

## Computational Mathematics Concentration.

This roadmap is a recommended semester-by-semester plan of study for this major. However, courses designated as critical (!) must be completed in the semester listed to ensure a timely graduation.

<b>Semester One</b>		<b>Credits</b>
!	MATH 12002 ANALYTIC GEOMETRY AND CALCULUS I (KMCR)	5
	CS 13011 COMPUTER SCIENCE IA: PROCEDURAL PROGRAMMING	4
	& CS 13012 and COMPUTER SCIENCE IB: OBJECT ORIENTED PROGRAMMING	
	or CS 13001 or COMPUTER SCIENCE I: PROGRAMMING AND PROBLEM SOLVING	
	UC 10097 DESTINATION KENT STATE: FIRST YEAR EXPERIENCE	1
	Kent Core Requirement	3
	Foreign Language	4
	Credit Hours	17
<b>Semester Two</b>		
!	MATH 12003 ANALYTIC GEOMETRY AND CALCULUS II	5
	MATH 20011 DECISION-MAKING UNDER UNCERTAINTY	3
	CS 23001 COMPUTER SCIENCE II: DATA STRUCTURES AND ABSTRACTION	4
	Foreign Language	4
	Credit Hours	16
<b>Semester Three</b>		
!	MATH 22005 ANALYTIC GEOMETRY AND CALCULUS III	4
	MATH 21001 LINEAR ALGEBRA	3
	PHY 23101 GENERAL UNIVERSITY PHYSICS I (KBS) (KLAB)	5
	Kent Core Requirement	3
	Credit Hours	15
<b>Semester Four</b>		
	MATH 41021 THEORY OF MATRICES	3
	PHY 23102 GENERAL UNIVERSITY PHYSICS II (KBS) (KLAB)	5
	Kent Core Requirement	3
	Kent Core Requirement	3
	Kent Core Requirement	3
	Credit Hours	17
<b>Semester Five</b>		
!	MATH 32044 ORDINARY DIFFERENTIAL EQUATIONS	3
	MATH 23022 DISCRETE STRUCTURES FOR COMPUTER SCIENCE	3
!	MATH 42031 MATHEMATICAL MODELS AND DYNAMICAL SYSTEMS	3
	or MATH 42201 or NUMERICAL COMPUTING I	
	Allied Area Electives	3
	Kent Core Requirement	3
	Credit Hours	15
<b>Semester Six</b>		
	MATH 42011 MATHEMATICAL OPTIMIZATION	3
!	MATH 42039 MODELING PROJECTS (ELR) (WIC)	3
	or or NUMERICAL COMPUTING II	
	MATH 42202	
	Allied Area Elective	3
	Kent Core Requirement	3
	Kent Core Requirement	3
	Credit Hours	15
<b>Semester Seven</b>		
!	MATH 40011 PROBABILITY THEORY AND APPLICATIONS	3

!	MATH 42031 MATHEMATICAL MODELS AND DYNAMICAL SYSTEMS	3
	or MATH 42201 or NUMERICAL COMPUTING I	
	MATH 40024 COMPUTATIONAL STATISTICS	3
	General Electives	3
	Kent Core Requirement	3
	Credit Hours	15
<b>Semester Eight</b>		
!	MATH 40012 THEORY OF STATISTICS	3
!	MATH 42039 MODELING PROJECTS (ELR) (WIC)	3
	or or NUMERICAL COMPUTING II	
	MATH 42202	
	General Elective	4
	Credit Hours	10
	Minimum Total Credit Hours:	120

## Financial Mathematics Concentration.

This roadmap is a recommended semester-by-semester plan of study for this major. However, courses designated as critical (!) must be completed in the semester listed to ensure a timely graduation.

<b>Semester One</b>		<b>Credits</b>
!	MATH 12002 ANALYTIC GEOMETRY AND CALCULUS I (KMCR)	5
	CS 13011 COMPUTER SCIENCE IA: PROCEDURAL PROGRAMMING	4
	& CS 13012 or CS 13001 and COMPUTER SCIENCE IB: OBJECT ORIENTED PROGRAMMING or COMPUTER SCIENCE I: PROGRAMMING AND PROBLEM SOLVING	
	UC 10097 DESTINATION KENT STATE: FIRST YEAR EXPERIENCE	1
	Kent Core Requirement	3
	Foreign Language	4
	Credit Hours	17
<b>Semester Two</b>		
!	MATH 12003 ANALYTIC GEOMETRY AND CALCULUS II	5
	MATH 20011 DECISION-MAKING UNDER UNCERTAINTY	3
	Kent Core Requirement	3
	Foreign Language	4
	Credit Hours	15
<b>Semester Three</b>		
	ECON 22060 PRINCIPLES OF MICROECONOMICS (KSS)	3
!	MATH 22005 ANALYTIC GEOMETRY AND CALCULUS III	4
	MATH 21001 LINEAR ALGEBRA	3
	PHY 23101 GENERAL UNIVERSITY PHYSICS I (KBS) (KLAB)	5
	Credit Hours	15
<b>Semester Four</b>		
	ECON 22061 PRINCIPLES OF MACROECONOMICS (KSS)	3
	MATH 41021 THEORY OF MATRICES	3
	PHY 23102 GENERAL UNIVERSITY PHYSICS II (KBS) (KLAB)	5
	Kent Core Requirement	3
	Credit Hours	14
<b>Semester Five</b>		
	ACCT 23020 INTRODUCTION TO FINANCIAL ACCOUNTING	3
	MATH 40011 PROBABILITY THEORY AND APPLICATIONS	3
!	MATH 42031 MATHEMATICAL MODELS AND DYNAMICAL SYSTEMS	3
	or MATH 42201 or NUMERICAL COMPUTING I	
	Kent Core Requirement	3
	Kent Core Requirement	3
	Credit Hours	15
<b>Semester Six</b>		
	FIN 36053 BUSINESS FINANCE	3
	MATH 40012 THEORY OF STATISTICS	3
!	MATH 42039 MODELING PROJECTS (ELR) (WIC)	3
	or MATH 42202 or NUMERICAL COMPUTING II	
	Kent Core Requirement	3
	Kent Core Requirement	3
	Credit Hours	15
<b>Semester Seven</b>		
	MATH 40051 TOPICS IN PROBABILITY THEORY AND STOCHASTIC PROCESSES	3
	MATH 32044 ORDINARY DIFFERENTIAL EQUATIONS	3

!	MATH 42031 MATHEMATICAL MODELS AND DYNAMICAL SYSTEMS	3
	or MATH 42201 or NUMERICAL COMPUTING I	
	Allied Area Electives	3
	General Electives	3
	Credit Hours	15
<b>Semester Eight</b>		
	MATH 42045 PARTIAL DIFFERENTIAL EQUATIONS	3
!	MATH 42039 MODELING PROJECTS (ELR) (WIC)	3
	or MATH 42202 or NUMERICAL COMPUTING II	
	Allied Area Electives	3
	General Elective	5
	Credit Hours	14
	Minimum Total Credit Hours:	120

## Probability and Statistics Concentration

This roadmap is a recommended semester-by-semester plan of study for this major. However, courses designated as critical (!) must be completed in the semester listed to ensure a timely graduation.

Semester One		Credits
!	MATH 12002 ANALYTIC GEOMETRY AND CALCULUS I (KMCR)	5
	CS 13011 COMPUTER SCIENCE IA: PROCEDURAL PROGRAMMING	4
	& CS 13012 or CS 13001 and COMPUTER SCIENCE IB: OBJECT ORIENTED PROGRAMMING or COMPUTER SCIENCE I: PROGRAMMING AND PROBLEM SOLVING	
	UC 10097 DESTINATION KENT STATE: FIRST YEAR EXPERIENCE	1
Kent Core Requirement		3
Foreign Language		4
Credit Hours		17
Semester Two		Credits
!	MATH 12003 ANALYTIC GEOMETRY AND CALCULUS II	5
	MATH 20011 DECISION-MAKING UNDER UNCERTAINTY	3
Kent Core Requirement		3
Foreign Language		4
Credit Hours		15
Semester Three		Credits
!	MATH 22005 ANALYTIC GEOMETRY AND CALCULUS III	4
	MATH 21001 LINEAR ALGEBRA	3
	PHY 23101 GENERAL UNIVERSITY PHYSICS I (KBS) (KLAB)	5
Kent Core Requirement		3
Credit Hours		15
Semester Four		Credits
	MATH 41021 THEORY OF MATRICES	3
	PHY 23102 GENERAL UNIVERSITY PHYSICS II (KBS) (KLAB)	5
Kent Core Requirement		3
Kent Core Requirement		3
Credit Hours		14
Semester Five		Credits
!	MATH 32044 ORDINARY DIFFERENTIAL EQUATIONS	3
	MATH 40011 PROBABILITY THEORY AND APPLICATIONS	3
!	MATH 42031 MATHEMATICAL MODELS AND DYNAMICAL SYSTEMS or MATH 42201 or NUMERICAL COMPUTING I	3
Allied Area Electives		3
Kent Core Requirement		3
Credit Hours		15
Semester Six		Credits
	MATH 40012 THEORY OF STATISTICS	3
!	MATH 42039 MODELING PROJECTS (ELR) (WIC) or MATH 42202 or NUMERICAL COMPUTING II	3
Allied Area Elective		3
Kent Core Requirement		3
Kent Core Requirement		3
Credit Hours		15
Semester Seven		Credits
	MATH 40024 COMPUTATIONAL STATISTICS	3
	MATH 40051 TOPICS IN PROBABILITY THEORY AND STOCHASTIC PROCESSES	3

!	MATH 42031 MATHEMATICAL MODELS AND DYNAMICAL SYSTEMS or MATH 42201 or NUMERICAL COMPUTING I	3
Kent Core Requirement		3
General Electives		3
Credit Hours		15
Semester Eight		Credits
!	MATH 42039 MODELING PROJECTS (ELR) (WIC) or MATH 42202 or NUMERICAL COMPUTING II	3
	MATH 40015 APPLIED STATISTICS	3
General Elective		8
Credit Hours		14
Minimum Total Credit Hours:		120

## Applied Mathematics - M.A.

### College of Arts and Sciences

Department of Mathematical Sciences  
233 Mathematics and Computer Science Building  
Kent Campus  
330-672-2430  
math@math.kent.edu  
www.kent.edu/math

## Description

The Master of Arts degree in Applied Mathematics is emphasizes areas relevant to mathematical applications in the sciences, including engineering, biological, financial and physical sciences. There is no thesis requirement or option. Students in the Ph.D. degree in Applied Mathematics can apply for this M.A. degree after completing the requisite number of credit hours.

### Fully Offered At:

- Kent Campus

## Admission Requirements

- Bachelor's degree from an accredited college or university<sup>1</sup> for unconditional admission
- Minimum 3.000 undergraduate GPA on a 4.000 point scale for unconditional admission
- Official transcript(s)
- Résumé or vita
- Goal statement
- Three letters of recommendation
- English language proficiency - all international students must provide proof of English language proficiency (unless they meet specific exceptions) by earning one of the following:
  - Minimum 525 TOEFL PBT score (paper-based version)
  - Minimum 71 TOEFL IBT score (Internet-based version)
  - Minimum 74 MELAB score
  - Minimum 6.0 IELTS score
  - Minimum 50 PTE score
  - Minimum 100 Duolingo English Test score



For more information about graduate admissions, please visit the Graduate Studies admission website. For more information on international admission, visit the Office of Global Education's admission website.

<sup>1</sup> Applicants are not required to have an undergraduate degree in applied mathematics; however, they are expected to have proficiency in numerical analysis and statistics at the level of MATH 40012 and MATH 42202. They are also expected to have taken computer science coursework equivalent to CS 13001. Those who do not meet these specific requirements may be granted conditional admission by the Graduate Studies Committee.

## Program Learning Outcomes

Graduates of this program will be able to:

1. Engage effectively in problem solving, including exploring examples, devising and testing conjectures and assessing the correctness of solutions.
2. Reason in mathematical arguments at a level appropriate to the discipline, including posing problems precisely, articulating assumptions and reasoning logically to conclusions.
3. Approach mathematical problems creatively, including trying multiple approaches and modifying problems when necessary to make them more tractable.
4. Communicate mathematics clearly both orally and in writing.
5. Teach university-level mathematics effectively.
6. Obtain depth in some subdiscipline of applied mathematics.

## Program Requirements

### Major Requirements

Code	Title	Credit Hours
<b>Major Requirements</b> <sup>1</sup>		
Choose 2 sequences from the following:		13-14
MATH 60051 & MATH 60052	PROBABILITY I and PROBABILITY II	
MATH 60061 & MATH 60062	MATHEMATICAL STATISTICS I and MATHEMATICAL STATISTICS II	
MATH 62041 & MATH 62042	METHODS OF APPLIED MATHEMATICS I and METHODS OF APPLIED MATHEMATICS II	
MATH 62251 & MATH 62252	NUMERICAL ANALYSIS I and NUMERICAL ANALYSIS II	
Mathematics Graduate Courses (MATH 50000 or 60000 level) <sup>2</sup>		12
Mathematics Graduate Courses (MATH 60000 level) <sup>3</sup>		6
Minimum Total Credit Hours:		32

<sup>1</sup> A detailed plan of study should be submitted for advisor approval before the first 16 credit hours of graduate credit have been completed.

<sup>2</sup> With permission of the advisor, maximum 12 credit hours of 50000-level Mathematics (MATH) courses may be applied toward the total required for the degree. Candidates who do not have an undergraduate degree in applied mathematics should include MATH 52031 and MATH 52045 in their program.

<sup>3</sup> Minimum 20 credit hours must be at the 60000 level or above (includes required MATH courses). Maximum 3 credit hours of MATH 67199 may be counted toward the 20 credit hours.

## Graduation Requirements

Degree candidates must pass the departmental qualifying examination at the master's level in numerical analysis, probability or statistics, in addition to one additional area chosen from among the areas listed for master's degree programs.

## Applied Mathematics - M.S.

### College of Arts and Sciences

Department of Mathematical Sciences

233 Mathematics and Computer Science Building

Kent Campus

330-672-2430

math@math.kent.edu

www.kent.edu/math

## Description

The Master of Science degree in Applied Mathematics is primarily a terminal, pre-professional degree comprising coursework beyond the bachelor's degree emphasizing areas relevant to applications in the sciences and including the engineering, biological, financial and physical sciences. Students are required to write and defend a thesis in an area agreed upon with a faculty advisor.

### Fully Offered At:

- Kent Campus

## Admission Requirements

- Bachelor's degree from an accredited college or university<sup>1</sup> for unconditional admission
- Minimum 3.000 undergraduate GPA on a 4.000 point scale for unconditional admission
- Official transcript(s)
- Goal statement
- Résumé or vita
- Three letters of recommendation
- English language proficiency - all international students must provide proof of English language proficiency (unless they meet specific exceptions) by earning one of the following:
  - Minimum 525 TOEFL PBT score (paper-based version)
  - Minimum 71 TOEFL IBT score (Internet-based version)
  - Minimum 74 MELAB score
  - Minimum 6.0 IELTS score
  - Minimum 50 PTE score
  - Minimum 100 Duolingo English Test score

For more information about graduate admissions, please visit the Graduate Studies admission website. For more information on international admission, visit the Office of Global Education's admission website.

<sup>1</sup> Applicants are not required to have an undergraduate degree in applied mathematics; however, they are expected to have proficiency in numerical analysis and statistics at the level of MATH 40012 and MATH 42202. They are also expected to have taken computer science coursework equivalent to CS 13001. Those who do not meet these specific requirements may be granted conditional admission by the Graduate Studies Committee.

## Program Learning Outcomes

Graduates of this program will be able to:

1. Engage effectively in problem solving, including exploring examples, devising and testing conjectures and assessing the correctness of solutions.
2. Reason in mathematical arguments at a level appropriate to the discipline, including posing problems precisely, articulating assumption and reasoning logically to conclusions.
3. Approach mathematical problems creatively, including trying multiple approaches and modifying problems when necessary to make them more tractable.
4. Communicate mathematics clearly both orally and in writing.
5. Teach university-level mathematics effectively.
6. Obtain depth in some subdiscipline of applied mathematics.

## Program Requirements

### Major Requirements

Code	Title	Credit Hours
<b>Major Requirements <sup>1</sup></b>		
Choose two sequences from the following:		13-14
MATH 60051 & MATH 60052	PROBABILITY I and PROBABILITY II	
MATH 60061 & MATH 60062	MATHEMATICAL STATISTICS I and MATHEMATICAL STATISTICS II	
MATH 62041 & MATH 62042	METHODS OF APPLIED MATHEMATICS I and METHODS OF APPLIED MATHEMATICS II	
MATH 62251 & MATH 62252	NUMERICAL ANALYSIS I and NUMERICAL ANALYSIS II	
MATH 67199	THESIS <sup>2</sup>	6
Mathematics (MATH) Graduate Courses (50000 or 60000 level) <sup>3</sup>		12
Minimum Total Credit Hours:		32

- <sup>1</sup> A detailed plan of study should be submitted for advisor approval before the first 16 credit hours of graduate credit have been completed.
- <sup>2</sup> Candidates for the Master of Science degree must write and defend a thesis in an area agreed upon with their faculty advisor.
- <sup>3</sup> Minimum 20 credit hours of coursework must at the 60000 level or above (includes required MATH courses and thesis) for the degree. With permission of the advisor, students may apply a maximum of 12 credit hours of 50000-level Mathematics (MATH) courses toward the total required for the degree. Candidates who do not have an undergraduate degree in applied mathematics should include MATH 52031 and MATH 52045 in their program.

## Applied Mathematics - Minor

College of Arts and Sciences

Department of Mathematical Sciences  
 233 Mathematics and Computer Science Building  
 Kent Campus  
 330-672-2430  
 math@math.kent.edu  
 www.kent.edu/math

## Description

The Applied Mathematics minor offers courses in several areas of mathematics that are applicable to sciences and can be combined with science majors.

### Fully Offered At:

- Kent Campus
- Stark Campus

## Admission Requirements

Admission to a minor is open to students declared in a bachelor's degree, the A.A.B. or A.A.S. degree or the A.T.S. degree (not Individualized Program major). Students declared only in the A.A. or A.S. degree or the A.T.S. degree in Individualized Program may not declare a minor. Students may not pursue a minor and a major in the same discipline.

## Minor Requirements

Code	Title	Credit Hours
<b>Minor Prerequisites</b>		
MATH 10675	ALGEBRA FOR CALCULUS BOOST (KMCR)	
or MATH 10775 ALGEBRA FOR CALCULUS PLUS (KMCR)		
or MATH 11010 ALGEBRA FOR CALCULUS (KMCR)		
MATH 11022	TRIGONOMETRY (KMCR)	
Prerequisite Electives, choose from the following:		
CS 10062	PROGRAMMING FOR PROBLEM SOLVING IN SCIENCES	
CS 13001	COMPUTER SCIENCE I: PROGRAMMING AND PROBLEM SOLVING	
CS 13011 & CS 13012	COMPUTER SCIENCE IA: PROCEDURAL PROGRAMMING and COMPUTER SCIENCE IB: OBJECT ORIENTED PROGRAMMING <sup>1</sup>	
EMAT 15310	CREATIVE CODING	
<b>Minor Requirements</b>		
MATH 12002	ANALYTIC GEOMETRY AND CALCULUS I (KMCR) (min C grade)	5
MATH 12003	ANALYTIC GEOMETRY AND CALCULUS II (min C grade)	5
Choose from the following:		8-10
Selection A		
MATH 21001	LINEAR ALGEBRA (min C grade)	
MATH 22005	ANALYTIC GEOMETRY AND CALCULUS III (min C grade)	
MATH 32044	ORDINARY DIFFERENTIAL EQUATIONS	
Selection B		
MATH 32051	MATHEMATICAL METHODS IN THE PHYSICAL SCIENCES I (min C grade)	
MATH 32052	MATHEMATICAL METHODS IN THE PHYSICAL SCIENCES II	

Minor Electives, choose from the following:<sup>2</sup> 6

MATH 23022 DISCRETE STRUCTURES FOR COMPUTER SCIENCE<sup>3</sup>

or MATH 31011 PROOFS IN DISCRETE MATHEMATICS

MATH 40011 PROBABILITY THEORY AND APPLICATIONS

MATH 40012 THEORY OF STATISTICS

MATH 40051 TOPICS IN PROBABILITY THEORY AND STOCHASTIC PROCESSES

MATH 41021 THEORY OF MATRICES

MATH 42011 MATHEMATICAL OPTIMIZATION

MATH 42031 MATHEMATICAL MODELS AND DYNAMICAL SYSTEMS

MATH 42039 MODELING PROJECTS (ELR) (WIC)

MATH 42041 ADVANCED CALCULUS

MATH 42045 PARTIAL DIFFERENTIAL EQUATIONS

MATH 42048 COMPLEX VARIABLES

MATH 42201 NUMERICAL COMPUTING I

MATH 42202 NUMERICAL COMPUTING II

Minimum Total Credit Hours: 24

<sup>1</sup> A minimum C grade must be earned in CS 13011 and CS 13012.

<sup>2</sup> Students should select electives in consultation with the student's minor advisor.

<sup>3</sup> Credit for both MATH 23022 and MATH 31011 is not permitted. Students planning to take Computer Science upper-division courses (CS 30000 or 40000 level) must take MATH 23022.

## Graduation Requirements

Minimum Minor GPA	Minimum Overall GPA
2.000	2.000

- Students must complete at least two upper-division (30000 or 40000 level) courses in the minor at Kent State on a graded basis (A-F).
- Minimum 6 credit hours in the minor must be upper-division coursework (30000 and 40000 level).
- Minimum 6 credit hours in the minor must be outside of the course requirements for any major or other minor the student is pursuing.
- Minimum 50 percent of the total credit hours for the minor must be taken at Kent State (in residence).

## Applied Mathematics - Ph.D.

### College of Arts and Sciences

Department of Mathematical Sciences

233 Mathematics and Computer Science Building

Kent Campus

330-672-2430

math@math.kent.edu

www.kent.edu/math

## Description

The Ph.D. degree in Applied Mathematics is for those interested in becoming professional scholars, college and university teachers, or independent workers in private, industrial or government research institutions.

## Fully Offered At:

- Kent Campus

## Admission Requirements

- Passage of the departmental qualifying examination at the master's level
- Master's degree from an accredited university or college for unconditional admission
- Official transcript(s)
- Résumé or vita
- Goal statement
- Three letters of recommendation
- English language proficiency - all international students must provide proof of English language proficiency (unless they meet specific exceptions) by earning one of the following:
  - Minimum 525 TOEFL PBT score (paper-based version)
  - Minimum 71 TOEFL IBT score (Internet-based version)
  - Minimum 74 MELAB score
  - Minimum 6.0 IELTS score
  - Minimum 50 PTE score
  - Minimum 100 Duolingo English Test score

For more information about graduate admissions, please visit the Graduate Studies admission website. For more information on international admission, visit the Office of Global Education's admission website.

## Program Learning Outcomes

Graduates of this program will be able to:

1. Understand and appreciate connections between mathematics and other disciplines.
2. Be aware of and understand a broad range of mathematical subdisciplines.
3. Obtain a broader and deeper understanding of core applied mathematics subdisciplines, including numerical analysis, probability and mathematical statistics.
4. Obtain a deep understanding of some subdiscipline.
5. Engage effectively in problem solving, including exploring examples, devising and testing conjectures and assessing the correctness of solutions.
6. Reason in mathematical arguments at a level appropriate to the discipline, including posing problems precisely, articulating assumptions and reasoning logically to conclusions.
7. Approach mathematical problems creatively, including trying multiple approaches and modifying problems when necessary to make them more tractable.
8. Develop and carry out a research program in applied mathematics.
9. Communicate mathematics clearly both orally and in writing.
10. Teach university-level mathematics effectively.

## Program Requirements

### Major Requirements

Code	Title	Credit Hours
<b>Major Requirements</b>		
Mathematics Doctoral-Level Coursework (MATH 70000 or 80000 level) <sup>1</sup>		30
MATH 87199	DISSERTATION I <sup>2</sup>	30
Minimum Total Credit Hours:		60

<sup>1</sup> A cognate of maximum 10 credit hours may be counted toward the completion of the degree subject to the approval of the student's advisor and the graduate studies committee.

<sup>2</sup> Each doctoral candidate, upon admission to candidacy, must register for MATH 87199 for a total of 30 credit hours. It is expected that a doctoral candidate will continuously register for Dissertation I, and thereafter MATH 87299, each semester, until all requirements for the degree have been met. It is expected that candidates will present the results of their research in a defense open to students and faculty, at which the dissertation will be presented and defended before the dissertation committee.

### Candidacy

This examination will be a comprehensive examination in the field of the major subject, and will be a substantially deeper test than the qualifying examination.

## Applied Statistics - Minor

### College of Arts and Sciences

Department of Mathematical Sciences  
233 Mathematics and Computer Science Building  
Kent Campus  
330-672-2430  
math@math.kent.edu  
www.kent.edu/math

### Description

The Statistics Mathematics minor offers courses in several areas of applied and computational statistics.

### Fully Offered At:

- Kent Campus

### Admission Requirements

Admission to a minor is open to students declared in a bachelor's degree, the A.A.B. or A.A.S. degree or the A.T.S. degree (not Individualized Program major). Students declared only in the A.A. or A.S. degree or the A.T.S. degree in Individualized Program may not declare a minor. Students may not pursue a minor and a major in the same discipline.

### Minor Requirements

Code	Title	Credit Hours
MATH 12002	ANALYTIC GEOMETRY AND CALCULUS I (KMCR) (min C grade)	5

MATH 20011	DECISION-MAKING UNDER UNCERTAINTY (min C grade)	3
MATH 21001	LINEAR ALGEBRA (min C grade in either course)	3
or MATH 21002	APPLIED LINEAR ALGEBRA	
MATH 40015	APPLIED STATISTICS (min C grade)	3
MATH 40024	COMPUTATIONAL STATISTICS (min C grade)	3
MATH 40028	STATISTICAL LEARNING	3
Minimum Total Credit Hours:		20

### Graduation Requirements

Minimum Minor GPA	Minimum Overall GPA
2.000	2.000

- Students must complete at least two upper-division (30000 or 40000 level) courses in the minor at Kent State on a graded basis (A-F)
- Minimum 6 credit hours in the minor must be upper-division coursework (30000 and 40000 level).
- Minimum 6 credit hours in the minor must be outside of the course requirements for any major or other minor the student is pursuing.
- Minimum 50 percent of the total credit hours for the minor must be taken at Kent State (in residence).

## Mathematics - B.A.

### College of Arts and Sciences

Department of Mathematical Sciences  
233 Mathematics and Computer Science Building  
Kent Campus  
330-672-2430  
math@math.kent.edu  
www.kent.edu/math

### Description

The Bachelor of Arts degree in Mathematics is a flexible program, grounded in the liberal arts and suited for students' individual interests and needs. The program combines well with a second major and/or minors.

### Fully Offered At:

- Kent Campus
- Stark Campus

### Admission Requirements

The university affirmatively strives to provide educational opportunities and access to students with varied backgrounds, those with special talents and adult students who graduated from high school three or more years ago.

**Freshman Students on the Kent Campus:** The freshman admission policy on the Kent Campus is selective. Admission decisions are based upon the following: cumulative grade point average, ACT and/or SAT scores, strength of high school college preparatory curriculum and grade trends. The Admissions Office at the Kent Campus may defer the admission of students who do not meet admissions criteria but who demonstrate areas of promise for successful college study. Deferred applicants may begin their college coursework at one of seven regional

campuses of Kent State University. For more information on admissions, including additional requirements for some academic programs, visit the admissions website for new freshmen.

**Freshman Students on the Regional Campuses:** Kent State campuses at Ashtabula, East Liverpool, Geauga, Salem, Stark, Trumbull and Tuscarawas, as well as the Regional Academic Center in Twinsburg, have open enrollment admission for students who hold a high school diploma, GED or equivalent.

**English Language Proficiency Requirements for International Students:** All international students must provide proof of English language proficiency (unless they meet specific exceptions) by earning a minimum 525 TOEFL score (71 on the Internet-based version), minimum 75 MELAB score, minimum 6.0 IELTS score or minimum 48 PTE score, or by completing the ESL level 112 Intensive Program. For more information on international admission, visit the Office of Global Education's admission website.

**Transfer, Transitioning and Former Students:** For more information about admission criteria for transfer, transitioning and former students, please visit the admissions website.

## University Requirements

All students in a bachelor's degree program at Kent State University must complete the following university requirements for graduation.

**NOTE:** University requirements may be fulfilled in this program by specific course requirements. Please see Program Requirements for details.

Destination Kent State: First Year Experience	1
Course is not required for students with 25 transfer credits, excluding College Credit Plus, or age 21+ at time of admission.	
Diversity Domestic/Global (DIVD/DIVG)	2 courses
Students must successfully complete one domestic and one global course, of which one must be from the Kent Core.	
Experiential Learning Requirement (ELR)	varies
Students must successfully complete one course or approved experience.	
Kent Core (see table below)	36-37
Writing-Intensive Course (WIC)	1 course
Students must earn a minimum C grade in the course.	
Upper-Division Requirement	39 (or 42)
Students must successfully complete 39 upper-division (numbered 30000 to 49999) credit hours to graduate. Students in a B.A. and/or B.S. degree in the College of Arts and Sciences must complete 42 upper-division credit hours.	
Total Credit Hour Requirement	120
Some bachelor's degrees require students to complete more than 120 credit hours.	

## Kent Core Requirements

Kent Core Composition (KCMP)	6
Kent Core Mathematics and Critical Reasoning (KMCR)	3
Kent Core Humanities and Fine Arts (KHUM/KFA) (min one course each)	9
Kent Core Social Sciences (KSS) (must be from two disciplines)	6
Kent Core Basic Sciences (KBS/KLAB) (must include one laboratory)	6-7

Kent Core Additional (KADL)	6
<b>Total Credit Hours:</b>	<b>36-37</b>

## Program Requirements

### Major Requirements

Code	Title	Credit Hours
<b>Major Requirements (courses count in major GPA) <sup>1</sup></b>		
MATH 12002	ANALYTIC GEOMETRY AND CALCULUS I (KMCR) (min C grade)	5
MATH 12003	ANALYTIC GEOMETRY AND CALCULUS II (min C grade)	5
MATH 20011	DECISION-MAKING UNDER UNCERTAINTY	3
MATH 21001	LINEAR ALGEBRA (min C grade)	3
MATH 22005	ANALYTIC GEOMETRY AND CALCULUS III (min C grade)	4
MATH 31011	PROOFS IN DISCRETE MATHEMATICS (min C grade)	3
MATH 41001	MODERN ALGEBRA I (ELR) (WIC) (min C grade) <sup>2</sup>	3
or MATH 42001	ANALYSIS I (ELR) (WIC)	
MATH 41002	MODERN ALGEBRA II (ELR) (WIC) <sup>2</sup>	3
or MATH 42002	ANALYSIS II (ELR) (WIC)	
Mathematics Electives, choose from the following:		9
MATH 30055	MATHEMATICAL THEORY OF INTEREST	
MATH 32044	ORDINARY DIFFERENTIAL EQUATIONS	
MATH 38001	HANDS-ON MATHEMATICS	
MATH 40011	PROBABILITY THEORY AND APPLICATIONS	
MATH 40012	THEORY OF STATISTICS	
MATH 40015	APPLIED STATISTICS	
MATH 40024	COMPUTATIONAL STATISTICS	
MATH 40028	STATISTICAL LEARNING	
MATH 40051	TOPICS IN PROBABILITY THEORY AND STOCHASTIC PROCESSES	
MATH 40055	ACTUARIAL MATHEMATICS I (ELR) (WIC) <sup>2</sup>	
MATH 40056	ACTUARIAL MATHEMATICS II	
MATH 41001	MODERN ALGEBRA I (ELR) (WIC) <sup>2</sup>	
MATH 41002	MODERN ALGEBRA II (ELR) (WIC) <sup>2</sup>	
MATH 41021	THEORY OF MATRICES	
MATH 42001	ANALYSIS I (ELR) (WIC) <sup>2</sup>	
MATH 42002	ANALYSIS II (ELR) (WIC) <sup>2</sup>	
MATH 42011	MATHEMATICAL OPTIMIZATION	
MATH 42021	GRAPH THEORY AND COMBINATORICS	
MATH 42031	MATHEMATICAL MODELS AND DYNAMICAL SYSTEMS	
MATH 42039	MODELING PROJECTS (ELR) (WIC) <sup>2</sup>	
MATH 42024	NUMBERS AND GAMES	
MATH 42041	ADVANCED CALCULUS	
MATH 42045	PARTIAL DIFFERENTIAL EQUATIONS	
MATH 42048	COMPLEX VARIABLES	
MATH 42201	NUMERICAL COMPUTING I	
MATH 42202	NUMERICAL COMPUTING II	
MATH 45011	DIFFERENTIAL GEOMETRY	
MATH 45021	EUCLIDEAN GEOMETRY	
MATH 45022	LINEAR GEOMETRY	
MATH 46001	ELEMENTARY TOPOLOGY	



MATH 47011	THEORY OF NUMBERS	
MATH 47021	HISTORY OF MATHEMATICS	
Computer Programming Elective, choose from the following:		3-4
CS 10051	INTRODUCTION TO COMPUTER SCIENCE (KMCR)	
CS 10062	PROGRAMMING FOR PROBLEM SOLVING IN SCIENCES	
CS 13001	COMPUTER SCIENCE I: PROGRAMMING AND PROBLEM SOLVING	
CS 13011 & CS 13012	COMPUTER SCIENCE IA: PROCEDURAL PROGRAMMING and COMPUTER SCIENCE IB: OBJECT ORIENTED PROGRAMMING (min C grade in both courses)	
EMAT 15310	CREATIVE CODING	
<b>Additional Requirements (courses do not count in major GPA)</b>		
UC 10097	DESTINATION KENT STATE: FIRST YEAR EXPERIENCE	1
Foreign Language (see Foreign Language College Requirement below)		14-16
Kent Core Composition		6
Kent Core Humanities and Fine Arts (minimum one course from each)		9
Kent Core Social Sciences (must be from two disciplines)		6
Kent Core Basic Sciences (must include one laboratory)		6
Kent Core Additional		6
College General Requirement (must be from Kent Core Basic Sciences) <sup>3</sup>		3
College General Requirement (must be from Kent Core Social Sciences) <sup>4</sup>		3
General Electives (total credit hours depends on earning 120 credit hours, including 42 upper-division credit hours)		25
Minimum Total Credit Hours:		120

<sup>1</sup> MATH 30011, MATH 34001 and MATH 34002 may not be applied to the major requirements.

<sup>2</sup> A minimum C grade must be earned to fulfill the writing-intensive requirement.

<sup>3</sup> One additional course taken from the Kent Core Basic Sciences in the following Arts and Sciences disciplines: Anthropology (ANTH), Biological Sciences (BSCI), Chemistry (CHEM), Geography (GEOG), Geology (GEOL) or Physics (PHY). The course may not be from the student's major.

<sup>4</sup> One additional course taken from the Kent Core Social Sciences courses in the following Arts and Sciences disciplines: Anthropology (ANTH), Geography (GEOG), Criminology and Justice Studies (CRIM), Peace and Conflict Studies (PACS), Political Science (POL), Psychology (PSYC) or Sociology (SOC). The course may not be from the student's major.

## Graduation Requirements

Minimum Major GPA	Minimum Overall GPA
2.000	2.000

## Foreign Language College Requirement

Students pursuing the Bachelor of Arts degree in the College of Arts and Sciences must complete 14-16 credit hours of foreign language.<sup>1</sup>

To complete the requirement, students have the equivalent of Elementary I and II in any language, plus one of the following options:

1. Intermediate I and II of the same language<sup>2</sup>
2. Elementary I and II of a second language
3. Any combination of two courses from the following list:

- Intermediate I of the same language
- MCLS 10001 INTRODUCTION TO STRUCTURAL CONCEPTS FOR LANGUAGE STUDENTS
- MCLS 20091 VARIABLE CONTENT SEMINAR IN GLOBAL LITERACY: CASE STUDIES
- MCLS 21417 MULTICULTURALISM IN TODAY'S GERMANY (DIVG)
- MCLS 28404 THE LATIN AMERICAN EXPERIENCE (DIVG)

- <sup>1</sup> All students with prior foreign language experience should take the foreign language placement test to determine the appropriate level at which to start. Some students may begin beyond the Elementary I level and will complete the requirement with fewer credit hours and fewer courses. This may be accomplished by (1) passing a course beyond Elementary I through Intermediate II level; (2) receiving credit through Credit by Exam (CBE), Advanced Placement (AP), International Baccalaureate (IB) or College Level Examination Program (CLEP); or (3) being designated a 'native speaker' of a non-English language (consult with the College of Arts and Sciences Advising Office for additional information). When students complete the requirement with fewer than 14 credit hours and four courses, they will complete remaining credit hours with general electives.
- <sup>2</sup> Certain majors, concentrations and minors may require specific languages, limit the languages from which a student may choose or require coursework through Intermediate II. Students who plan to pursue graduate study may need particular language coursework.

## Roadmap

This roadmap is a recommended semester-by-semester plan of study for this major. However, courses designated as critical (!) must be completed in the semester listed to ensure a timely graduation.

Semester One		Credits
MATH 12002	ANALYTIC GEOMETRY AND CALCULUS I (KMCR)	5
UC 10097	DESTINATION KENT STATE: FIRST YEAR EXPERIENCE	1
Computer Programming Elective		3
Foreign Language		4
Kent Core Requirement		3
Credit Hours		16
Semester Two		Credits
MATH 12003	ANALYTIC GEOMETRY AND CALCULUS II	5
Kent Core Requirement		3
Kent Core Requirement		3
Foreign Language		4
Credit Hours		15
Semester Three		Credits
MATH 22005	ANALYTIC GEOMETRY AND CALCULUS III	4
Kent Core Requirement		3
Kent Core Requirement		3
Foreign Language		3
General Elective		3
Credit Hours		16
Semester Four		Credits
MATH 20011	DECISION-MAKING UNDER UNCERTAINTY	3
Foreign Language		3
Kent Core Requirement		3
Kent Core Requirement		3
Kent Core Requirement		3
Credit Hours		15
Semester Five		Credits
MATH 21001	LINEAR ALGEBRA	3
MATH 31011	PROOFS IN DISCRETE MATHEMATICS	3
College General Requirement		3
College General Requirement		3
Kent Core Requirement		3
Credit Hours		15
Semester Six		Credits
Mathematics Electives		3
Kent Core Requirement		3
Kent Core Requirement		3
General Elective		6
Credit Hours		15
Semester Seven		Credits
MATH 41001	MODERN ALGEBRA I (ELR) (WIC)	3
or	or ANALYSIS I (ELR) (WIC)	
MATH 42001		
Mathematics Electives		3
General Electives		9
Credit Hours		15
Semester Eight		Credits
MATH 41002	MODERN ALGEBRA II (ELR) (WIC)	3
or	or ANALYSIS II (ELR) (WIC)	
MATH 42002		

Mathematics Electives	3
General Electives	7
Credit Hours	13
Minimum Total Credit Hours:	120

## Mathematics - B.S.

### College of Arts and Sciences

Department of Mathematical Sciences

233 Mathematics and Computer Science Building

Kent Campus

330-672-2430

math@math.kent.edu

www.kent.edu/math

## Description

The Bachelor of Science degree in Mathematics comprises core areas in algebra (number systems, equations, discrete structures), analysis (functions, limits, continuous processes), geometry (space, shape, form) and associated generalizations and abstractions.

The B.S. degree program is recommended for students interested in a flexible option of careers or graduate study in mathematics. Coupled with the Education minor, the program can lead to Ohio teacher licensure.

### Fully Offered At:

- Kent Campus
- Stark Campus

## Admission Requirements

The university affirmatively strives to provide educational opportunities and access to students with varied backgrounds, those with special talents and adult students who graduated from high school three or more years ago.

**Freshman Students on the Kent Campus:** The freshman admission policy on the Kent Campus is selective. Admission decisions are based upon the following: cumulative grade point average, ACT and/or SAT scores, strength of high school college preparatory curriculum and grade trends. The Admissions Office at the Kent Campus may defer the admission of students who do not meet admissions criteria but who demonstrate areas of promise for successful college study. Deferred applicants may begin their college coursework at one of seven regional campuses of Kent State University. For more information on admissions, including additional requirements for some academic programs, visit the admissions website for new freshmen.

**Freshman Students on the Regional Campuses:** Kent State campuses at Ashtabula, East Liverpool, Geauga, Salem, Stark, Trumbull and Tuscarawas, as well as the Regional Academic Center in Twinsburg, have open enrollment admission for students who hold a high school diploma, GED or equivalent.

**English Language Proficiency Requirements for International Students:** All international students must provide proof of English language proficiency (unless they meet specific exceptions) by earning a minimum 525 TOEFL score (71 on the Internet-based version), minimum 75 MELAB score, minimum 6.0 IELTS score or minimum 48 PTE score, or by

completing the ESL level 112 Intensive Program. For more information on international admission, visit the Office of Global Education's admission website.

**Transfer, Transitioning and Former Students:** For more information about admission criteria for transfer, transitioning and former students, please visit the admissions website.

## Program Learning Outcomes

Graduates of this program will be able to:

1. Reason in mathematical arguments at a level appropriate to the discipline, including using precise definitions, articulating assumptions and reasoning logically to conclusions.
2. Engage effectively in problem solving, including exploring examples, devising and testing conjectures and assessing the correctness of solutions.
3. Approach mathematical problems creatively, including trying multiple approaches and modifying problems when necessary to make them more tractable.
4. Communicate mathematics clearly both orally and in writing.
5. Understand and appreciate connections among different subdisciplines of mathematics.
6. Understand and appreciate connections between mathematics and other disciplines.
7. Be aware of and understand a broad range of mathematical subdisciplines.

## University Requirements

All students in a bachelor's degree program at Kent State University must complete the following university requirements for graduation.

**NOTE:** University requirements may be fulfilled in this program by specific course requirements. Please see Program Requirements for details.

Destination Kent State: First Year Experience	1
Course is not required for students with 25 transfer credits, excluding College Credit Plus, or age 21+ at time of admission.	
Diversity Domestic/Global (DIVD/DIVG)	2 courses
Students must successfully complete one domestic and one global course, of which one must be from the Kent Core.	
Experiential Learning Requirement (ELR)	varies
Students must successfully complete one course or approved experience.	
Kent Core (see table below)	36-37
Writing-Intensive Course (WIC)	1 course
Students must earn a minimum C grade in the course.	
Upper-Division Requirement	39 (or 42)
Students must successfully complete 39 upper-division (numbered 30000 to 49999) credit hours to graduate. Students in a B.A. and/or B.S. degree in the College of Arts and Sciences must complete 42 upper-division credit hours.	
Total Credit Hour Requirement	120
Some bachelor's degrees require students to complete more than 120 credit hours.	

## Kent Core Requirements

Kent Core Composition (KCMP)	6
Kent Core Mathematics and Critical Reasoning (KMCR)	3
Kent Core Humanities and Fine Arts (KHUM/KFA) (min one course each)	9
Kent Core Social Sciences (KSS) (must be from two disciplines)	6
Kent Core Basic Sciences (KBS/KLAB) (must include one laboratory)	6-7
Kent Core Additional (KADL)	6
<b>Total Credit Hours:</b>	<b>36-37</b>

## Program Requirements

### Major Requirements

Code	Title	Credit Hours
<b>Major Requirements (courses count in major GPA) <sup>1</sup></b>		
MATH 12002	ANALYTIC GEOMETRY AND CALCULUS I (KMCR) (min C grade)	5
MATH 12003	ANALYTIC GEOMETRY AND CALCULUS II (min C grade)	5
MATH 20011	DECISION-MAKING UNDER UNCERTAINTY	3
MATH 21001	LINEAR ALGEBRA (min C grade)	3
MATH 22005	ANALYTIC GEOMETRY AND CALCULUS III (min C grade)	4
MATH 31011	PROOFS IN DISCRETE MATHEMATICS (min C grade)	3
MATH 32044	ORDINARY DIFFERENTIAL EQUATIONS	3
MATH 41001	MODERN ALGEBRA I (ELR) (WIC) (min C grade) <sup>2</sup>	3
MATH 41002	MODERN ALGEBRA II (ELR) (WIC)	3
MATH 41021	THEORY OF MATRICES	3
MATH 42001	ANALYSIS I (ELR) (WIC) (min C grade) <sup>2</sup>	3
MATH 42002	ANALYSIS II (ELR) (WIC)	3
PHY 23101	GENERAL UNIVERSITY PHYSICS I (KBS) (KLAB)	5
Computer Science Elective, choose from the following:		4
CS 10062	PROGRAMMING FOR PROBLEM SOLVING IN SCIENCES	
CS 13001	COMPUTER SCIENCE I: PROGRAMMING AND PROBLEM SOLVING	
CS 13011 & CS 13012	COMPUTER SCIENCE IA: PROCEDURAL PROGRAMMING and COMPUTER SCIENCE IB: OBJECT ORIENTED PROGRAMMING	
Pure Mathematics Electives, choose from the following:		9
MATH 42021	GRAPH THEORY AND COMBINATORICS	
MATH 42048	COMPLEX VARIABLES	
MATH 45011	DIFFERENTIAL GEOMETRY	
MATH 45021	EUCLIDEAN GEOMETRY	
MATH 45022	LINEAR GEOMETRY	
MATH 46001	ELEMENTARY TOPOLOGY	
MATH 47011	THEORY OF NUMBERS	
Applied Mathematics Sequence, choose from the following:		6-8
MATH 40011 & MATH 40012	PROBABILITY THEORY AND APPLICATIONS and THEORY OF STATISTICS	
MATH 40055 & MATH 40056	ACTUARIAL MATHEMATICS I (ELR) (WIC) and ACTUARIAL MATHEMATICS II <sup>2</sup>	

MATH 42031 & MATH 42039	MATHEMATICAL MODELS AND DYNAMICAL SYSTEMS and MODELING PROJECTS (ELR) (WIC) <sup>2</sup>	GEOG 49080	ADVANCED GEOGRAPHIC INFORMATION SCIENCE
MATH 42041 & MATH 42045	ADVANCED CALCULUS and PARTIAL DIFFERENTIAL EQUATIONS	GEOG 49085	WEB AND MOBILE GEOGRAPHIC INFORMATION SCIENCE
MATH 42201 & MATH 42202	NUMERICAL COMPUTING I and NUMERICAL COMPUTING II	GEOG 49162	CARTOGRAPHY
Allied Area Electives, choose from the following: <sup>3</sup>		GEOG 49230	REMOTE SENSING
6		GEOL 31080	STRUCTURAL GEOLOGY
BSCI 30050	HUMAN GENETICS	GEOL 32066	GEOMORPHOLOGY
BSCI 40020	BIOLOGY OF AGING	GEOL 41025	GENERAL GEOPHYSICS
CHEM 30050	INTRODUCTION TO MATERIALS CHEMISTRY	GEOL 41080	TECTONICS AND OROGENY
CHEM 30105	ANALYTICAL CHEMISTRY I	GEOL 42030	REMOTE SENSING
CHEM 30106	ANALYTICAL CHEMISTRY II	GEOL 42035	SCIENTIFIC METHODS IN GEOLOGY
CHEM 30301	INORGANIC CHEMISTRY I	ECON 32040	INTERMEDIATE MICROECONOMIC THEORY AND APPLICATIONS
CHEM 40302	INORGANIC CHEMISTRY II	ECON 32041	INTERMEDIATE MACROECONOMIC THEORY AND POLICY
CHEM 40303	INORGANIC CHEMISTRY III	ECON 32050	APPLIED ECONOMETRICS I (ELR)
CHEM 40555	PHYSICAL CHEMISTRY I	ECON 32051	APPLIED ECONOMETRICS II
CHEM 40556	PHYSICAL CHEMISTRY II	ECON 42050	DATA ACQUISITION, PREPARATION AND VISUALIZATION
CHEM 40559	NANOMATERIALS	ECON 42070	GAME THEORY
CS 33007	INTRODUCTION TO DATABASE SYSTEM DESIGN	MATH 30055	MATHEMATICAL THEORY OF INTEREST
CS 33101	STRUCTURE OF PROGRAMMING LANGUAGES	MATH 38001	HANDS-ON MATHEMATICS
CS 33211	OPERATING SYSTEMS	MATH 40011	PROBABILITY THEORY AND APPLICATIONS
CS 33901	SOFTWARE ENGINEERING	MATH 40012	THEORY OF STATISTICS
CS 35101	COMPUTER ORGANIZATION	MATH 40015	APPLIED STATISTICS
CS 35201	COMPUTER COMMUNICATION NETWORKS	MATH 40024	COMPUTATIONAL STATISTICS
CS 38101	INTRODUCTION TO GAME PROGRAMMING	MATH 40028	STATISTICAL LEARNING
CS 43006	THEORY OF OBJECT-ORIENTED PROGRAMMING	MATH 40051	TOPICS IN PROBABILITY THEORY AND STOCHASTIC PROCESSES
CS 43111	STRUCTURE OF COMPILERS	MATH 40055	ACTUARIAL MATHEMATICS I (ELR) (WIC) <sup>2</sup>
CS 43202	SYSTEMS ADMINISTRATION	MATH 40056	ACTUARIAL MATHEMATICS II
CS 43203	SYSTEMS PROGRAMMING	MATH 41021	THEORY OF MATRICES
CS 43301	SOFTWARE DEVELOPMENT FOR ROBOTICS	MATH 42011	MATHEMATICAL OPTIMIZATION
CS 43305	ADVANCED DIGITAL DESIGN	MATH 42021	GRAPH THEORY AND COMBINATORICS
CS 43401	SECURE PROGRAMMING	MATH 42024	NUMBERS AND GAMES
CS 44001	COMPUTER SCIENCE III-PROGRAMMING PATTERNS	MATH 42031	MATHEMATICAL MODELS AND DYNAMICAL SYSTEMS
CS 44003	MOBILE APPS IN IOS PROGRAMMING	MATH 42039	MODELING PROJECTS (ELR) (WIC) <sup>2</sup>
CS 44105	WEB PROGRAMMING I	MATH 42041	ADVANCED CALCULUS
CS 44106	WEB PROGRAMMING II	MATH 42045	PARTIAL DIFFERENTIAL EQUATIONS
CS 44201	ARTIFICIAL INTELLIGENCE	MATH 42048	COMPLEX VARIABLES
CS 45203	COMPUTER NETWORK SECURITY	MATH 42201	NUMERICAL COMPUTING I
CS 45231	INTERNET ENGINEERING	MATH 42202	NUMERICAL COMPUTING II
CS 46101	DESIGN AND ANALYSIS OF ALGORITHMS	MATH 45011	DIFFERENTIAL GEOMETRY
CS 47101	COMPUTER GRAPHICS	MATH 45021	EUCLIDEAN GEOMETRY
CS 47205	INFORMATION SECURITY	MATH 45022	LINEAR GEOMETRY
CS 47206	DATA SECURITY AND PRIVACY	MATH 46001	ELEMENTARY TOPOLOGY
CS 47207	DIGITAL FORENSICS	MATH 47011	THEORY OF NUMBERS
CS 47221	INTRODUCTION TO CRYPTOLOGY	MATH 47021	HISTORY OF MATHEMATICS
CS 48101	GAME ENGINE CONCEPTS	PHIL 41035	PHILOSOPHY OF SCIENCE
GEOG 31062	FUNDAMENTALS OF METEOROLOGY	PHIL 41038	INTERMEDIATE LOGIC
GEOG 31064	PRINCIPLES OF CLIMATOLOGY	PHIL 41045	METALOGIC
GEOG 35065	GEOGRAPHY OF TRANSPORTATION AND SPATIAL INTERACTION	PHY 34000	COSMOLOGY
GEOG 39002	STATISTICAL METHODS IN GEOGRAPHY	PHY 35101	CLASSICAL MECHANICS
GEOG 41065	APPLIED CLIMATOLOGY	PHY 36001	INTRODUCTORY MODERN PHYSICS
GEOG 44070	SPATIAL ANALYSIS AND LOCATION THEORY	PHY 36002	APPLICATIONS OF MODERN PHYSICS
GEOG 49070	GEOGRAPHIC INFORMATION SCIENCE	PHY 44802	ASTROPHYSICS

PHY 45201	ELECTROMAGNETIC THEORY	
PHY 45301	THERMAL PHYSICS	
PHY 45401	MATHEMATICAL METHODS IN PHYSICS	
PHY 45403	DATA ANALYSIS AND COMPUTATIONAL PHYSICS TECHNIQUES	
PHY 45501	ELECTROMAGNETIC WAVES AND MODERN OPTICS	
PHY 46101	QUANTUM MECHANICS	
PHY 46301	INTRODUCTION TO NUCLEAR AND PARTICLE PHYSICS	
PHY 46401	INTRODUCTION TO SOLID STATE PHYSICS	
<b>Additional Requirements (courses do not count in major GPA)</b>		
UC 10097	DESTINATION KENT STATE: FIRST YEAR EXPERIENCE	1
Foreign Language (see Foreign Language College Requirement below)		8
Kent Core Composition		6
Kent Core Humanities and Fine Arts (minimum one course from each)		9
Kent Core Social Sciences (must be from two disciplines)		6
Kent Core Basic Sciences		1
Kent Core Additional		6
General Electives (total credit hours depends on earning 120 credit hours, including 42 upper-division credit hours)		10
Minimum Total Credit Hours:		120

- <sup>1</sup> MATH 30011, MATH 34001 and MATH 34002 may not be applied to the major requirements.
- <sup>2</sup> A minimum C grade must be earned to fulfill the writing-intensive course requirement.
- <sup>3</sup> A course may count toward only one requirement even though it may appear in more than one course list.

## Graduation Requirements

Minimum Major GPA	Minimum Overall GPA
2.000	2.000

### Foreign Language College Requirement

- Students pursuing the Bachelor of Science degree in the College of Arts and Sciences must complete 8 credit hours of foreign language.<sup>1</sup>
- Minimum Elementary I and II of the same language

- <sup>1</sup> All students with prior foreign language experience should take the foreign language placement test to determine the appropriate level at which to start. Some students may begin their university foreign language experience beyond the Elementary I level and will complete the requirement with fewer credit hours and fewer courses. This may be accomplished by: (1) passing a course beyond the Elementary I through Intermediate II level or (2) receiving credit through Credit by Exam (CBE), the College Level Examination Program (CLEP), the Advanced Placement (AP) exam or credit through the International Baccalaureate (IB) program; or (3) being designated a 'native speaker' of a non-English language (consult with the College of Arts and Sciences Advising Office for additional information). When students complete the requirement with fewer than 8 credit hours and two courses, they will complete the remaining hours with general electives.



## Roadmap

This roadmap is a recommended semester-by-semester plan of study for this major. However, courses designated as critical (!) must be completed in the semester listed to ensure a timely graduation.

Semester One		Credits
!	MATH 12002 ANALYTIC GEOMETRY AND CALCULUS I (KMCR)	5
	UC 10097 DESTINATION KENT STATE: FIRST YEAR EXPERIENCE	1
!	Computer Science Elective	4
	Foreign Language	4
	Kent Core Requirement	3
Credit Hours		17
Semester Two		Credits
!	MATH 12003 ANALYTIC GEOMETRY AND CALCULUS II	5
	MATH 20011 DECISION-MAKING UNDER UNCERTAINTY	3
!	PHY 23101 GENERAL UNIVERSITY PHYSICS I (KBS) (KLAB)	5
	Foreign Language	4
Credit Hours		17
Semester Three		Credits
!	MATH 21001 LINEAR ALGEBRA	3
!	MATH 22005 ANALYTIC GEOMETRY AND CALCULUS III	4
	MATH 31011 PROOFS IN DISCRETE MATHEMATICS	3
	Kent Core Requirement	3
	Kent Core Requirement	3
Credit Hours		16
Semester Four		Credits
	MATH 32044 ORDINARY DIFFERENTIAL EQUATIONS	3
!	MATH 41021 THEORY OF MATRICES	3
	Kent Core Requirement	3
	Kent Core Requirement	3
	Kent Core Requirement	3
Credit Hours		15
Semester Five		Credits
!	MATH 41001 MODERN ALGEBRA I (ELR) (WIC)	3
	Allied Area Elective	3
	Pure Mathematics Elective	3
	Kent Core Requirements	3
	Kent Core Requirements	3
Credit Hours		15
Semester Six		Credits
!	MATH 41002 MODERN ALGEBRA II (ELR) (WIC)	3
	Pure Mathematics Elective	3
	Kent Core Requirement	3
	Kent Core Requirement	3
	Kent Core Requirement	3
Credit Hours		15
Semester Seven		Credits
!	MATH 42001 ANALYSIS I (ELR) (WIC)	3
	Allied Area Elective	3
	Applied Mathematics Sequence	3
	General Elective	4
Credit Hours		13
Semester Eight		Credits
!	MATH 42002 ANALYSIS II (ELR) (WIC)	3

Applied Mathematic Sequence	3
Pure Mathematics Elective	3
General Electives	3
Credit Hours	12
Minimum Total Credit Hours:	120

## Mathematics - Minor

### College of Arts and Sciences

Department of Mathematical Sciences  
233 Mathematics and Computer Science Building  
Kent Campus  
330-672-2430  
math@math.kent.edu  
www.kent.edu/math

## Description

The Mathematics minor offers study in several areas of pure mathematics and can be combined with several majors, including those in the sciences and education.

### Fully Offered At:

- Kent Campus
- Stark Campus

## Admission Requirements

Admission to a minor is open to students declared in a bachelor's degree, the A.A.B. or A.A.S. degree or the A.T.S. degree (not Individualized Program major). Students declared only in the A.A. or A.S. degree or the A.T.S. degree in Individualized Program may not declare a minor. Students may not pursue a minor and a major in the same discipline.

## Minor Requirements

Code	Title	Credit Hours
<b>Prerequisite Requirements</b>		
MATH 10675	ALGEBRA FOR CALCULUS BOOST (KMCR)	
	or MATH 10775 ALGEBRA FOR CALCULUS PLUS (KMCR)	
	or MATH 11010 ALGEBRA FOR CALCULUS (KMCR)	
MATH 11022	TRIGONOMETRY (KMCR)	
Computer Programming Elective, choose from the following:		
CS 10051	INTRODUCTION TO COMPUTER SCIENCE (KMCR)	
CS 10062	PROGRAMMING FOR PROBLEM SOLVING IN SCIENCES	
CS 13001	COMPUTER SCIENCE I: PROGRAMMING AND PROBLEM SOLVING	
CS 13011 & CS 13012	COMPUTER SCIENCE IA: PROCEDURAL PROGRAMMING and COMPUTER SCIENCE IB: OBJECT ORIENTED PROGRAMMING (min C grade in both courses)	
EMAT 15310	CREATIVE CODING	
<b>Minor Requirements</b>		
MATH 12002	ANALYTIC GEOMETRY AND CALCULUS I (KMCR) (min C grade)	5

MATH 12003	ANALYTIC GEOMETRY AND CALCULUS II (min C grade)	5
MATH 21001	LINEAR ALGEBRA (min C grade)	3
MATH 22005	ANALYTIC GEOMETRY AND CALCULUS III (min C grade)	4
MATH 31011	PROOFS IN DISCRETE MATHEMATICS (min C grade)	3
or MATH 32044	ORDINARY DIFFERENTIAL EQUATIONS	
or Mathematics Upper-Division Course (MATH 40000 level)		
Mathematics Electives, choose from the following:		6
Algebra		
MATH 41001	MODERN ALGEBRA I (ELR) (WIC)	
MATH 41002	MODERN ALGEBRA II (ELR) (WIC)	
MATH 41021	THEORY OF MATRICES	
MATH 47011	THEORY OF NUMBERS	
Analysis		
MATH 42001	ANALYSIS I (ELR) (WIC)	
MATH 42002	ANALYSIS II (ELR) (WIC)	
MATH 42041	ADVANCED CALCULUS	
MATH 42045	PARTIAL DIFFERENTIAL EQUATIONS	
MATH 42048	COMPLEX VARIABLES	
Geometry/Topology		
MATH 42021	GRAPH THEORY AND COMBINATORICS	
MATH 45011	DIFFERENTIAL GEOMETRY	
MATH 45021	EUCLIDEAN GEOMETRY	
MATH 45022	LINEAR GEOMETRY	
MATH 46001	ELEMENTARY TOPOLOGY	
Minimum Total Credit Hours:		26

## Graduation Requirements

Minimum Minor GPA	Minimum Overall GPA
2.000	2.000

- Students must complete at least two upper-division (30000 or 40000 level) courses in the minor at Kent State on a graded basis (A-F).
- Minimum 6 credit hours in the minor must be upper-division coursework (30000 and 40000 level).
- Minimum 6 credit hours in the minor must be outside of the course requirements for any major or other minor the student is pursuing.
- Minimum 50 percent of the total credit hours for the minor must be taken at Kent State (in residence).

# Mathematics for Secondary Teachers - M.A.

## College of Arts and Sciences

Department of Mathematical Sciences  
233 Mathematics and Computer Science Building  
Kent Campus  
330-672-2430  
math@math.kent.edu  
www.kent.edu/math

## Description

The Master of Arts degree in Mathematics for Secondary Teachers is a three-year program offered in the evenings and summer. Designed collaboratively by faculty in mathematical sciences and teacher education, the program is for in-service teachers and features both mathematics and education classes. The program does not lead to Ohio teacher licensure.

## Fully Offered At:

- Kent Campus

## Admission Requirements

- Bachelor's degree from an accredited college or university for unconditional admission
- Minimum 3.000 undergraduate GPA on a 4.000 point scale for unconditional admission
- Official transcript(s)
- Goal statement
- Résumé or vita
- Three letters of recommendation
- English language proficiency - all international students must provide proof of English language proficiency (unless they meet specific exceptions) by earning one of the following:
  - Minimum 525 TOEFL PBT score (paper-based version)
  - Minimum 71 TOEFL IBT score (Internet-based version)
  - Minimum 74 MELAB score
  - Minimum 6.0 IELTS score
  - Minimum 50 PTE score
  - Minimum 100 Duolingo English Test score

For more information about graduate admissions, please visit the Graduate Studies admission website. For more information on international admission, visit the Office of Global Education's admission website.

## Program Learning Outcomes

Graduates of this program will be able to:

1. Reason in mathematical arguments, including using precise definitions, articulating assumptions and reasoning logically to conclusions.
2. Engage effectively in problem solving, including exploring examples, devising and testing conjectures and assessing the correctness of solutions.
3. Approach mathematical problems creatively, including trying multiple approaches and modifying problems when necessary to make them more tractable.
4. Communicate mathematics clearly both orally and in writing.
5. Teach high school-level mathematics.
6. Understand and appreciate connections among different subdisciplines of mathematics.
7. Be aware of and understand a broad range of mathematical subdisciplines.
8. Obtain a broader and deeper understanding of algebra, geometry and analysis and their interpretation in the K-12 curriculum.

## Program Requirements

### Major Requirements

Code	Title	Credit Hours
<b>Major Requirements</b>		
CI 67224	TEACHING MATHEMATICS USING COMPUTERS AND CALCULATORS	3
CI 67225	RESEARCH IN MATHEMATICS EDUCATION	3
CI 67791	SEMINAR IN MATHEMATICS EDUCATION	3
MATH 64091	SEMINAR IN MATHEMATICS EDUCATION (repeatable)	6
Mathematics Electives (MATH 60000 level)		6
Capstone Project		2
Mathematics Electives, choose from the following:		15
MATH 51021	THEORY OF MATRICES	
MATH 52021	GRAPH THEORY AND COMBINATORICS	
MATH 52041	ADVANCED CALCULUS	
MATH 52201	NUMERICAL COMPUTING I	
MATH 55021	EUCLIDEAN GEOMETRY	
MATH 55022	LINEAR GEOMETRY	
MATH 57011	THEORY OF NUMBERS	
Minimum Total Credit Hours:		38

### Graduation Requirements

- Minimum 32 credit hours of graduate credit with minimum 16 credit hours at the 60000 level and 22 credit hours in mathematics
- Two to three courses in each of the areas of modern algebra, geometry and analysis
- Courses in applied mathematics and current trends in teaching
- Successful passage of a final examination in general mathematics

## Pure Mathematics - M.A.

### College of Arts and Sciences

Department of Mathematical Sciences  
233 Mathematics and Computer Science Building  
Kent Campus  
330-672-2430  
math@math.kent.edu  
www.kent.edu/math

### Description

The Master of Arts degree in Pure Mathematics comprises a flexible program of coursework in mathematics beyond the bachelor's degree emphasizing theoretical areas of the discipline (algebra, analysis, geometry, number theory and topology). There is no thesis requirement or option. Students in the pure mathematics Ph.D.degree can apply for this M.A. degree after completing the requisite number of credit hours.

### Fully Offered At:

- Kent Campus

## Admission Requirements

- Bachelor's degree from an accredited college or university<sup>1</sup> for unconditional admission
- Minimum 3.000 undergraduate GPA on a 4.000 point scale for unconditional admission
- Official transcript(s)
- Goal statement
- Résumé or vita
- Three letters of recommendation
- English language proficiency - all international students must provide proof of English language proficiency (unless they meet specific exceptions) by earning one of the following:
  - Minimum 525 TOEFL PBT score (paper-based version)
  - Minimum 71 TOEFL IBT score (Internet-based version)
  - Minimum 74 MELAB score
  - Minimum 6.0 IELTS score
  - Minimum 50 PTE score
  - Minimum 100 Duolingo English Test score

For more information about graduate admissions, please visit the Graduate Studies admission website. For more information on international admission, visit the Office of Global Education's admission website.

<sup>1</sup> Applicants are not required to have an undergraduate degree in pure mathematics; however, they are expected to have proficiency in algebra and analysis at the level of MATH 41001, MATH 41002, MATH 42001 and MATH 42002. Those who do not meet these specific requirements may be granted conditional admission by the Graduate Studies Committee.

## Program Learning Outcomes

Graduates of this program will be able to:

1. Reason in mathematical arguments, including using precise definitions, articulating assumptions and reasoning logically to conclusions.
2. Engage effectively in problem solving, including exploring examples, devising and testing conjectures and assessing the correctness of solutions.
3. Approach mathematical problems creatively, including trying multiple approaches and modifying problems when necessary to make them more tractable.
4. Communicate mathematics clearly both orally and in writing.
5. Teach university-level mathematics effectively.
6. Understand and appreciate connections among different subdisciplines of mathematics.
7. Be aware of and understand a broad range of mathematical subdisciplines.
8. Obtain a broader and deeper understanding of core mathematics disciplines of algebra and analysis.

## Program Requirements

### Major Requirements

Code	Title	Credit Hours
<b>Major Requirements</b>		
Mathematics Electives		14
Mathematics Sequence Electives, choose from the following: <sup>1</sup>		18
MATH 61051 & MATH 61052	ABSTRACT ALGEBRA I and ABSTRACT ALGEBRA II	
MATH 62051 & MATH 62052	FUNCTIONS OF A REAL VARIABLE I and FUNCTIONS OF A REAL VARIABLE II	
MATH 62151 & MATH 62152	FUNCTIONS OF A COMPLEX VARIABLE I and FUNCTIONS OF A COMPLEX VARIABLE II	
MATH 66051 & MATH 66052	INTRODUCTION TO TOPOLOGY I and INTRODUCTION TO TOPOLOGY II	
Minimum Total Credit Hours:		32

<sup>1</sup> Students must complete, at minimum, two of the sequences and one semester of one of the remaining sequences. With prior permission from the Graduate Studies Committee, maximum 6 credit hours of mathematically related coursework from other departments can be applied to meet the Mathematics Sequence Electives.

### Graduation Requirements

Candidates for the Master of Arts degree must pass the departmental qualifying examination at the master's level in algebra and analysis.

### Program note

Each student should submit a detailed plan of study for approval by the advisor by the time the first 16 credit hours of graduate credit have been completed.

## Pure Mathematics - M.S.

### College of Arts and Sciences

Department of Mathematical Sciences  
233 Mathematics and Computer Science Building  
Kent Campus  
330-672-2430  
math@math.kent.edu  
www.kent.edu/math

### Description

The Master of Science degree in Pure Mathematics is primarily a terminal, pre-professional degree comprising coursework beyond the bachelor's degree that emphasizes theoretical areas of the discipline, including algebra, analysis, geometry, number theory and topology. Students are required to write and defend a thesis in an area agreed upon with a faculty advisor.

### FULLY OFFERED AT:

- Kent Campus

## Admission Requirements

- Bachelor's degree from an accredited college or university<sup>1</sup> for unconditional admission
- Minimum 3.000 undergraduate GPA on a 4.000 point scale for unconditional admission
- Official transcript(s)
- Résumé or vita
- Goal statement
- Three letters of recommendation
- English language proficiency - all international students must provide proof of English language proficiency (unless they meet specific exceptions) by earning one of the following:
  - Minimum 525 TOEFL PBT score (paper-based version)
  - Minimum 71 TOEFL IBT score (Internet-based version)
  - Minimum 74 MELAB score
  - Minimum 6.0 IELTS score
  - Minimum 50 PTE score
  - Minimum 100 Duolingo English Test score

For more information about graduate admissions, please visit the Graduate Studies admission website. For more information on international admission, visit the Office of Global Education's admission website.

<sup>1</sup> Applicants are not required to have an undergraduate degree in pure mathematics; however, they are expected to have proficiency in algebra and analysis at the level of MATH 41001, MATH 41002, MATH 42001 and MATH 42002. Those who do not meet these specific requirements may be granted conditional admission by the Graduate Studies Committee.

## Program Learning Outcomes

Graduates of this program will be able to:

1. Reason in mathematical arguments at a level appropriate to the discipline, including using precise definitions, articulating assumptions and reasoning logically to conclusions.
2. Engage effectively in problem solving, including exploring examples, devising and testing conjectures and assessing the correctness of solutions.
3. Approach mathematical problems creatively, including trying multiple approaches and modifying problems when necessary to make them more tractable.
4. Communicate mathematics clearly both orally and in writing.
5. Teach university-level mathematics effectively.
6. Obtain a deeper understanding of some subdiscipline of mathematics.

## Program Requirements

### Major Requirements

Code	Title	Credit Hours
<b>Major Requirements</b>		
MATH 67199	THESIS I	6
Mathematics Electives		8

Mathematics Sequence Electives, choose from the following: <sup>1</sup>		18
MATH 61051 & MATH 61052	ABSTRACT ALGEBRA I and ABSTRACT ALGEBRA II	
MATH 62051 & MATH 62052	FUNCTIONS OF A REAL VARIABLE I and FUNCTIONS OF A REAL VARIABLE II	
MATH 62151 & MATH 62152	FUNCTIONS OF A COMPLEX VARIABLE I and FUNCTIONS OF A COMPLEX VARIABLE II	
MATH 66051 & MATH 66052	INTRODUCTION TO TOPOLOGY I and INTRODUCTION TO TOPOLOGY II	

Minimum Total Credit Hours: 32

<sup>1</sup> Students must complete, at minimum, two of the sequences and one semester of one of the remaining sequences. With prior permission from the Graduate Studies Committee, maximum 6 credit hours of mathematically related coursework from other departments can be applied to meet the Mathematics Sequence Electives.

## Graduation Requirements

Candidates for the Master of Science degree must write and defend a thesis in an area agreed upon with the faculty advisor.

### Program note

Each student should submit a detailed plan of study for approval by the advisor by the time the first 16 credit hours of graduate credit have been completed.

## Pure Mathematics - Ph.D.

### College of Arts and Sciences

Department of Mathematical Sciences  
233 Mathematics and Computer Science Building  
Kent Campus  
330-672-2430  
math@math.kent.edu  
www.kent.edu/math

## Description

The Ph.D. degree in Pure Mathematics is for students interested in becoming professional scholars, college and university teachers or independent workers in private, industrial or government research institutions. Kent State's pure mathematics Ph.D. program is one of six in the state public university system, and one of only two in Northeast Ohio. In broad terms, the faculty areas of research lie in functional analysis and operator theory, Lie representation theory, approximation theory, finite groups, character theory, number theory, large scale systems of equations, numerical and scientific computation and probability and stochastic processes.

### FULLY OFFERED AT:

- Kent Campus

## Admission Requirements

- Passage of the departmental qualifying examination at the master's level in algebra and analysis
- Master's degree from an accredited university or college for unconditional admission

- Official transcript(s)
- Goal Statement
- Résumé or vita
- Three letters of recommendation
- English language proficiency - all international students must provide proof of English language proficiency (unless they meet specific exceptions) by earning one of the following:
  - Minimum 525 TOEFL PBT score (paper-based version)
  - Minimum 71 TOEFL IBT score (Internet-based version)
  - Minimum 74 MELAB score
  - Minimum 6.0 IELTS score
  - Minimum 50 PTE score
  - Minimum 100 Duolingo English Test score

For more information about graduate admissions, please visit the Graduate Studies admission website. For more information on international admission, visit the Office of Global Education's admission website.

## Program Learning Outcomes

Graduates of this program will be able to:

1. Understand and appreciate connections among different subdisciplines of mathematics.
2. Be aware of and understand a broad range of mathematical subdisciplines.
3. Obtain a broader and deeper understanding of core mathematics subdisciplines of algebra and analysis.
4. Obtain a deep understanding of some subdiscipline.
5. Reason in mathematical arguments at a deep level, including using precise definitions, articulating assumptions and reasoning logically to conclusions.
6. Engage effectively in problem solving, including exploring examples, devising and testing conjectures and assessing the correctness of solutions.
7. Approach mathematical problems creatively, including trying multiple approaches and modifying problems when necessary to make them more tractable.
8. Develop and carry out a research program in mathematics.
9. Communicate mathematics clearly both orally and in writing.
10. Teach university-level mathematics effectively.

## Program Requirements

### Major Requirements

Code	Title	Credit Hours
<b>Major Requirements</b>		
Mathematics Doctoral-Level Coursework (MATH 70000 or 80000 level) <sup>1</sup>		30
MATH 87199	DISSERTATION I <sup>2</sup>	30
Minimum Total Credit Hours:		60



<sup>1</sup> Each student is required to take a set of basic courses as outlined in the Departmental Information and Policy Guide. Students may petition to have specific course requirements waived if minimum B grade was obtained for an equivalent course at another institution. The basic courses will prepare the student for the candidacy examination.

<sup>2</sup> Each doctoral candidate, upon admission to candidacy, must register for MATH 87199 for a total of 30 credit hours. It is expected that a doctoral candidate will continuously register for Dissertation I, and thereafter MATH 87299, each semester, until all requirements for the degree have been met. It is expected that candidates will present the results of their research in a defense open to students and faculty, at which the dissertation will be presented and defended before the dissertation committee.

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## Graduation Requirements

Students present at least one seminar during their graduate career.

## Candidacy for Degree

This examination will be a comprehensive examination in the field of the major subject, and will be a substantially deeper test than the qualifying examination.

# Department of Modern and Classical Language Studies

## College of Arts and Sciences

Department of Modern and Classical Language Studies  
109 Satterfield Hall  
Kent Campus  
330-672-2150  
mcls@kent.edu  
www.kent.edu/mcls

## Undergraduate Programs

- American Sign Language - B.A.
- Classics - B.A.
- French - B.A.
- German - B.A.
- Russian Literature, Culture and Translation - B.A.
- Spanish - B.A.
- Translation - B.S.

## Minors

- American Sign Language
- Arabic
- Business French
- Business German
- Business Russian
- Business Spanish
- Chinese
- Classics
- French
- German

- German Studies
- Greek
- Italian
- Italian Studies
- Japanese
- Latin
- Russian
- Russian Studies
- Spanish

## Graduate Programs

- French - M.A.
- German - M.A.
- Latin - M.A.
- Spanish - M.A.
- Translation - M.A.
- Translation Studies - Ph.D.

## Department of Modern and Classical Language Studies Faculty

- Angelone, Erik (2007), Associate Professor, Ph.D., University of Heidelberg, 2006
- Baer, Brian J. (1996), Professor, Ph.D., Yale University, 1996
- Bell, Sharon M. (1990), Assistant Professor, Ph.D., Brown University, 1987
- Berrong, Richard M. (1985), Professor, Ph.D., Cornell University, 1977
- Bilali, Loubna (2008), Assistant Professor
- Brett-Paez, Maria C. (2009), Lecturer, M.A., Kent State University, 2013
- Bystrova-McIntyre, Tatyana (2002), Associate Professor, Ph.D., Kent State University, 2012
- Carduner, Jessie (1998), Associate Professor, Ph.D., University of Pittsburgh, 1998
- Carl, Michael (2018), Professor
- Castaneda-Vise, Daniel A. (2007), Associate Professor, Ph.D., West Virginia University, 2007
- Chism, Rebecca L. (1999), Associate Professor, Ph.D., Florida State University, 2000
- De Julio, MaryAnn (1986), Professor, Ph.D., University of Iowa, 1979
- Dunne, Keiran J. (2000), Professor & Department Chair, Ph.D., Pennsylvania State University, 2000
- Dzero, Irina (2010), Assistant Professor
- Ehrman, Radd K. (1982), Professor, Ph.D., University of Illinois-Chicago, 1982
- Fatchet-McGee, Lori L. (1995), Associate Lecturer, M.A., Kent State University, 1997
- Gallagher, Patrick L. (2001), Associate Professor, Ph.D., University of Iowa, 1997
- Gee, Jacqueline L. (2009), Lecturer, M.Ed., Kent State University, 2016
- Hall, Jennifer E. (2008), Lecturer, M.Ed., University of Akron, 2015
- Harvey, Brian K. (1999), Associate Professor, Ph.D., University of Michigan, Ann Arbor, 1998
- Harvey, Sarah M. (2001), Professor, Ph.D., University of Michigan, Ann Arbor, 1999

- Hermosilla, Luis G. (1994), Associate Professor, Ph.D., The Ohio State University, 1994
- Hogue, Randall L. (2012), Associate Professor, Ph.D., Gallaudet University, 2011
- Koby, Geoffrey S. (1994), Professor, Ph.D., University of Wisconsin, Madison, 1992
- Lacruz, Isabel (1998), Associate Professor, Ph.D., Kent State University, 2005
- Larson, Jennifer L. (1992), Professor, Ph.D., University of Wisconsin-Madison, 1992
- Libbon, Stephanie E. (2002), Associate Professor, Ph.D., The Ohio State University, 2000
- Massardier-Kenney, Françoise M. (1988), Professor, Ph.D., Kent State University, 1986
- McGee, Lori L. (1995), Associate Lecturer, M.A., Kent State University, 1997
- Nehring, Lawrence J. (2008), Associate Lecturer, M.S., University of Rochester, 1991
- Rivera, Olga I. (1999), Professor, Ph.D., The Ohio State University, 1998
- Romero-Gonzalez, Mariana (2009), Associate Lecturer, M.A., Kent State University, 2012
- Rossoll, Hildegard M. (1988), Associate Professor, Ph.D., Washington University in St. Louis, 1991
- Sato, Paula K. (2009), Associate Professor
- Shiyab, Said M. (2014), Professor
- Shuman, Mason P. (2005), Associate Lecturer, M.A., Kent State University, 2006
- Siciarz, Stephanie J. (2012), Lecturer, M.A., Johns Hopkins University, 2007
- Stasiowski, Kristin (2013), Assistant Professor & Assistant Dean
- Subak, Leah L. (1994), Assistant Professor
- Talentino, Kimberly L. (2007), Associate Lecturer, M.A., Kent State University, 1991
- Tanaka, Eriko (2010), Associate Lecturer, M.A., Bowling Green State University, 2001
- Trzeciak Huss, Joanna (2006), Associate Professor
- Vickery, Steve C. (1997), Lecturer, B.A., Kent State University, 1998
- Wakabayashi, Judy F. (2002), Professor, Ph.D., University of Southern Queensland, 1993
- Washbourne, Richard K. (2003), Professor, Ph.D., University of Massachusetts-Amherst, 2002
- Yu, Hui (2012), Associate Lecturer
- Zaldivar, Maria E. (2007), Professor, Ph.D., Pennsylvania State University, 1991

## Arabic (ARAB)

### ARAB 11101 ELEMENTARY ARABIC I 4 Credit Hours

Students develop ability to communicate on familiar topics in culturally appropriate ways using Modern Standard Arabic and colloquialisms of at least one dialect. They learn grammatical structures and vocabulary to enable them to function in the Novice range and develop a few abilities in the Intermediate range.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 4 lecture

**Grade Mode:** Standard Letter

### ARAB 11102 ELEMENTARY ARABIC II 4 Credit Hours

Students develop ability to communicate on familiar topics in culturally appropriate ways using Modern Standard Arabic and colloquialisms of at least one dialect. They learn grammatical structures and vocabulary to enable them to function near the Intermediate range level.

**Prerequisite:** ARAB 11101.

**Schedule Type:** Lecture

**Contact Hours:** 4 lecture

**Grade Mode:** Standard Letter

### ARAB 21201 INTERMEDIATE ARABIC I 3 Credit Hours

Development of speaking, listening, reading and writing skills. Students accomplish real-world communicative tasks in culturally appropriate ways using Modern Standard Arabic and colloquialisms of at least one dialect. Students gain increased familiarity with products, practices, and perspectives of target culture(s). They learn grammatical structures and vocabulary to enable them to function near the Intermediate range level in a number of areas.

**Prerequisite:** ARAB 11102.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

### ARAB 21202 INTERMEDIATE ARABIC II 3 Credit Hours

Development of speaking, listening, reading and writing skills. Students accomplish real-world communicative tasks in culturally appropriate ways using Modern Standard Arabic and colloquialisms of at least one dialect. They learn additional grammatical structures and vocabulary to enable them to function consistently in the Intermediate range with emergent abilities in the Advanced level.

**Prerequisite:** ARAB 21201.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

### ARAB 30095 SPECIAL TOPICS IN ARABIC CULTURE AND LANGUAGE 3 Credit Hours

(Repeatable for a maximum of 9 credit hours) Topics in Arabic civilization, culture or language.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

### ARAB 31301 ADVANCED INTERMEDIATE ARABIC I 3 Credit Hours

Continuation of the study of Modern Standard Arabic and colloquial Arabic in the context of Arab cultures. Further development of listening, speaking, reading and writing skills, using a variety of cultural materials.

**Prerequisite:** ARAB 21202.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ARAB 31302 ADVANCED INTERMEDIATE ARABIC II 3 Credit Hours**

Developing skills of reading, writing, speaking and understanding, this course enhances students' ability to express simple and compound sentences related to everyday activities; examine differences between present, past and future tenses; write assignments using a variety of writing techniques, i.e., describing geographical places, narrating an event, arguing against or for something, and reflecting on news reports; improve students understanding of the world around them using authentic materials on a variety of topics in Modern Standard Arabic; practice the use of grammatical structures and build new vocabulary related to Arab culture and social life in an attempt to improve students' ability to understand texts and express their ideas at an advanced level.

**Prerequisite:** ARAB 31301.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ARAB 37231 TRANSLATION PRACTICE: ARABIC 1 Credit Hour**

Translation practice with Arabic texts using principles and techniques learned in the lecture class.

**Prerequisite:** ARAB 21202.

**Corequisite:** TRST 30230.

**Schedule Type:** Lecture

**Contact Hours:** 1 lecture

**Grade Mode:** Standard Letter

**ARAB 37240 CONVERSATION FOR BUSINESS AND SPECIAL PURPOSES: ARABIC 3 Credit Hours**

Introduction to the special vocabulary of business and other special subject areas; introduces the concept of language for special purposes and emphasizes the use of special vocabulary in conversations in business and other settings.

**Prerequisite:** ARAB 31301.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ARAB 41096 INDIVIDUAL INVESTIGATION 1-3 Credit Hours**

(Repeatable for a total of 6 credit hours) Individual study supervised by a faculty member on an approved topic dealing with Arabic language and/or culture.

**Prerequisite:** ARAB 21201.

**Schedule Type:** Individual Investigation

**Contact Hours:** 1-3 other

**Grade Mode:** Standard Letter-IP

**ARAB 41201 ADVANCED ARABIC I 3 Credit Hours**

Continuation of ARAB 31302. Emphasis is on building active vocabulary for comprehension, reading authentic texts, writing of connected discourse and the development of higher levels of conversational proficiency.

**Prerequisite:** ARAB 31302; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ARAB 41202 ADVANCED ARABIC II 3 Credit Hours**

Enhancing students' ability to speak, understand and write analytically; refining students' ability to use conjunctives and logical connectives at a higher level; understanding stylistic features such as tone, register, figures of speech (i.e., irony, metaphor, simile, alliteration, etc), phrase, clause, sentence and idiomatic structures; enhancing students' ability to use appropriate techniques in descriptive, argumentative, expository writing.

**Prerequisite:** ARAB 41201; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ARAB 41301 ARABIC CULTURE 3 Credit Hours**

Survey of the Arab world covering its geographical, ethnic, religious, and linguistic diversity and the roots of its current socio-cultural context.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ARAB 41302 BUSINESS ARABIC 3 Credit Hours**

Study of the business protocol, language functions, texts and vocabulary associate with travel and business in the Arabic-speaking world.

**Prerequisite:** ARAB 31302.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ARAB 47230 ADVANCED TRANSLATION PRACTICE: ARABIC 3 Credit Hours**

Theory and practice course that discusses translation theory and emphasizes Arabic-English translation of selected texts in business, technology, medicine and law.

**Prerequisite:** ARAB 37231.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ARAB 47240 BUSINESS AND SPECIAL TEXTS:ARABIC 3 Credit Hours**

Introduction to the special vocabulary of business and other special subject areas. Introduces the concept of language for special purposes and emphasizes the use of special vocabulary in business and other settings.

**Prerequisite:** ARAB 37240.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ARAB 67010 PRACTICE OF ARABIC TRANSLATION 2 Credit Hours**

Introductory course in which students translate a variety of non-specialized, non-fiction short texts in different domains, identify the most common semantic, syntactic, stylistic, cultural and discourse-level problems encountered in translation, and apply appropriate cognitive strategies.

**Prerequisite:** Graduate standing.

**Pre/corequisite:** TRST 60010.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**ARAB 67098 RESEARCH 1-15 Credit Hours**

Research or individual investigation for students to pursue an area of interest, with the guidance of a Kent State faculty member. Credit earned may be applied towards degree requirements with department approval.

**Prerequisite:** Graduate standing.

**Schedule Type:** Research

**Contact Hours:** 1-15 other

**Grade Mode:** Standard Letter

**ARAB 67240 LITERARY AND CULTURAL TRANSLATION 3 Credit Hours**

Translation of documents from a variety of literary and cultural sources, including literature, expository and journalistic prose, speeches and essays in and from Arabic. '

**Prerequisite:** ARAB 67010 and TRST 60010; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ARAB 67250 COMMERCIAL, LEGAL AND DIPLOMATIC TRANSLATION 3 Credit Hours**

Translating a variety of commercial, financial and legal texts, with special emphasis on text-types most generally translated by professional translators; examining diplomatic texts to understand the language of diplomacy and find the best way to translate it into the target language.

Texts subjected for translation from Arabic into English and English into Arabic include employment contracts, articles of incorporation, annual financial statements, diplomatic or official notes, presidential speeches, and international business articles.

**Prerequisite:** ARAB 67010 and TRST 60010; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ARAB 67251 SCIENTIFIC, TECHNICAL AND MEDICAL TRANSLATION 3 Credit Hours**

Introducing methods and resources for the translation of scientific, technical, industrial and medical documents; translating a variety of scientific and medical texts, with special emphasis on text-types most generally translated by professional translators.

**Prerequisite:** TRST 60001 and TRST 60010; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ARAB 67979 TRANSLATION CASE STUDY 3 Credit Hours**

Students are responsible for a major translation and a terminology glossary as well as a critical analysis of the source text, the problems encountered during the translation process and the strategies used to solve them.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**American Sign Language (ASL)****ASL 19201 ELEMENTARY AMERICAN SIGN LANGUAGE I 4 Credit Hours**

Introduction to American Sign Language and the culture of the American signing community, in an immersion setting.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 4 lecture

**Grade Mode:** Standard Letter

**Attributes:** TAG Foreign Language

**ASL 19202 ELEMENTARY AMERICAN SIGN LANGUAGE II 4 Credit Hours**

A continuation of the introduction to American Sign Language and the culture of the American signing community, in an immersion setting.

**Prerequisite:** ASL 19201.

**Schedule Type:** Lecture

**Contact Hours:** 4 lecture

**Grade Mode:** Standard Letter

**ASL 19401 EXPLORATION OF DEAF CULTURE 3 Credit Hours**

Introduction to the American Deaf Community and its culture. Topics include myths and facts about deafness, cultural norms, basic history of American Sign Language, issues of language and cultural oppression, history of education of deaf and hard-of-hearing individuals, legal rights and advocacy.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ASL 29201 INTERMEDIATE AMERICAN SIGN LANGUAGE I 3 Credit Hours**

Continued development of receptive and expressive skills in American Sign Language and an introduction to ASL grammar, using a bilingual-bicultural approach and interaction with deaf organizations.

**Prerequisite:** ASL 19202.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ASL 29202 INTERMEDIATE AMERICAN SIGN LANGUAGE II 3 Credit Hours**

Continuation of ASL 29201 with an emphasis on greater exploration of American Sign Language sentence structure using a bilingual-bicultural approach. Students are involved in a community service project, providing a hands-on experience with using ASL within a community setting.

**Prerequisite:** ASL 29201.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ASL 29212 APPLIED AMERICAN SIGN LANGUAGE GRAMMAR 3 Credit Hours**

Provides students with intensive instruction and practice in grammar to help intermediate students express complex ideas using American Sign Language.

**Prerequisite:** ASL 19202.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ASL 29213 FINGERSPELLING, NUMBERS AND DEPICTION 3 Credit Hours**

Provides intermediate students with intensive instruction and practice in technical aspects of American Sign Language, including fingerspelling, numbers, and depiction, and provides opportunities for students to incorporate these skills in spontaneous conversations.

**Prerequisite:** ASL 19202.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ASL 39095 SPECIAL TOPICS IN AMERICAN SIGN LANGUAGE 1-3 Credit Hours**

(Repeatable for credit for maximum 9 hours) Special topics course in American Sign Language, the topic of which varies. Precise titles and descriptions appear in the schedule of classes.

**Prerequisite:** Special approval.

**Schedule Type:** Lecture

**Contact Hours:** 1-3 lecture

**Grade Mode:** Standard Letter

**ASL 39201 ADVANCED AMERICAN SIGN LANGUAGE I 3 Credit Hours**

Students enhance receptive and expressive proficiency in an immersion setting through the use of both planned and impromptu in-class discussion of current and historic events and involvement in a community service project. Students are advised to begin planning this activity early in the semester. Successful completion of ASL 29201 portfolio review required prior to registration.

**Prerequisite:** ASL 29202 .

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ASL 39202 ADVANCED AMERICAN SIGN LANGUAGE II 3 Credit Hours**

Students continue to increase their receptive and expressive proficiency in American Sign Language in an immersion setting, through in-class formal and informal presentations, discussions of current and historical events, and working in groups to complete a semester project and a community service project.

**Prerequisite:** ASL 39201 .

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ASL 39223 SOCIOLINGUISTICS OF THE DEAF COMMUNITY (WIC) 3 Credit Hours**

Provides an introduction to the sociolinguistics of American Sign Language (ASL) and the Deaf Community: A study of ASL within a social context. Topics include: multilingualism, variation (related to region, ethnicity, class and age), bilingualism and language contact, language policy and planning and language attitudes. This course is taught in English. Knowledge of ASL is helpful but not necessary.

**Prerequisite:** Junior standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Writing Intensive Course

**ASL 49091 SEMINAR IN AMERICAN SIGN LANGUAGE LINGUISTICS 3 Credit Hours**

(Repeatable twice for credit) Provides an in-depth treatment of an American Sign Language linguistics-related topic.

**Prerequisite:** Minimum C grade in ASL 49108; and special approval.

**Schedule Type:** Seminar

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ASL 49092 PRACTICUM IN AMERICAN SIGN LANGUAGE (ELR) 1-3 Credit Hours**

In consultation with the ASL program coordinator, ASL students design a practicum experience related to signed languages and their communities. Successful presentation of cumulative portfolio required prior to registration.

**Prerequisite:** ASL 29202.

**Schedule Type:** Practical Experience

**Contact Hours:** 3 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**Attributes:** Experiential Learning Requirement

**ASL 49096 INDIVIDUAL INVESTIGATION 2,3 Credit Hours**

(Repeatable for credit) (Cross-listed with SPED 43996) Individual investigation of problems in American Sign Language, ASL pedagogy and or deaf culture.

**Prerequisite:** Departmental permission.

**Schedule Type:** Individual Investigation

**Contact Hours:** 2-3 other

**Grade Mode:** Standard Letter-IP

**ASL 49108 AMERICAN SIGN LANGUAGE LINGUISTICS I 3 Credit Hours**

(Cross-listed with SPED 43108/53108) Lecture, discussion and application course designed to introduce students to basic linguistic terminology and concepts, as applied to American Sign Language (ASL) and taught using a bilingual-bicultural approach. Both ASL and English are used in the instruction of this class. Successful presentation of cumulative portfolio is required prior to registration in this course.

**Prerequisite:** ASL 29202.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ASL 49109 AMERICAN SIGN LANGUAGE LINGUISTICS II 3 Credit Hours**

Through lecture, in-class and out-of-class activities, and in-class presentations, students discuss, use, and respond to varied sentence structures and types of discourse in ASL, and compare these to English. Class is predominantly taught in ASL, but may at times use a bilingual approach.

**Prerequisite:** ASL 49108; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ASL 49201 ADVANCED PROFICIENCY 3 Credit Hours**

Students improve knowledge and use of American Sign Language and experiential knowledge of ASL culture through development, production, critique, revision and evaluation of an extended ASL presentation. This is an immersion class; voicing will not be used.

**Prerequisite:** ASL 39202; and score of intermediate level on the Signing Competency Proficiency Interview.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter



**ASL 49309 INTRODUCTION TO DEAF STUDIES (ELR) (WIC) 3 Credit Hours**

Survey course designed to provide informational base and understanding of the unique experiences of Deaf people as a cultural minority. Course includes a discussion of: the history of deaf education, etiology and prevalence data, service delivery systems, the process of diagnosis and discovery of hearing loss, issues associated with assessment, and the various communication systems used by deaf individuals. Specifically, topics discussed will include historical, medical, and cultural perspectives regarding the interactions between Deaf and hearing cultural groups and the resulting impact on social, academic-educational, and vocational experiences of deaf children, adults, and their families.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Experiential Learning Requirement, Writing Intensive Course

**ASL 49350 AMERICAN SIGN LANGUAGE LITERATURE 3 Credit Hours**

Through the use of multimedia resources, student explore the evolution of deaf literature, its historical context and multiple perspectives, and the techniques specific to ASL which make it unique. Conducted primarily in ASL, with some voicing and printed English.

**Prerequisite:** ASL 39201 and 49309; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ASL 49401 DEAF CULTURE AND COMMUNITY 3 Credit Hours**

(Slashed with SPED 53101) Students explore the different voices and perspectives which have been, and are, present within the deaf community, issues of controversy, myths and data, using a mix of ASL and English materials and discussion. Successful presentation of cumulative portfolio required prior to registration.

**Prerequisite:** ASL 29202 and 49309; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ASL 49601 ACTIVITY DESIGN, IMPLEMENTATION AND EVALUATION 3 Credit Hours**

Student improve receptive and expressive skills and develop ability to analyze and break down specific ASL skills into more basic components; voicing is not used. In addition to classroom time, a minimum of 90 minutes per week working in the KSU ASL lab and/or (with permission) off-campus site.

**Prerequisite:** ASL 39202; and passage of the Signing Competency Proficiency Interview at an intermediate level.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

## Chinese (CHIN)

**CHIN 15101 ELEMENTARY CHINESE I 4 Credit Hours**

An introduction to Mandarin Chinese in the context of modern Chinese-speaking cultures.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 4 lecture

**Grade Mode:** Standard Letter

**Attributes:** TAG Foreign Language

**CHIN 15102 ELEMENTARY CHINESE II 4 Credit Hours**

A continuation of the introduction to Mandarin Chinese in the context of modern Chinese-speaking cultures.

**Prerequisite:** CHIN 15101.

**Schedule Type:** Lecture

**Contact Hours:** 4 lecture

**Grade Mode:** Standard Letter

**CHIN 25201 INTERMEDIATE CHINESE I 4 Credit Hours**

Continued development of speaking, listening, reading and writing skills using a variety of cultural materials.

**Prerequisite:** CHIN 15102.

**Schedule Type:** Lecture

**Contact Hours:** 4 lecture

**Grade Mode:** Standard Letter

**CHIN 25202 INTERMEDIATE CHINESE II 4 Credit Hours**

Continuation of CHIN 25201.

**Prerequisite:** CHIN 25201.

**Schedule Type:** Lecture

**Contact Hours:** 4 lecture

**Grade Mode:** Standard Letter

**Attributes:** TAG Foreign Language

**CHIN 25421 CHINESE CULTURE 3 Credit Hours**

This course will guide students to explore the foundations of Chinese civilization and the dimensions of Chinese culture. The course will focus on providing students with a deeper knowledge of Chinese culture and better understanding of contemporary China. This course is a basic introduction to Chinese culture. It does not presume prior knowledge of China or the Chinese language. This course is taught in English and is open to students in any program.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CHIN 30095 SPECIAL TOPICS 3 Credit Hours**

(Repeatable for credit) Topic to be announced in schedule of classes.

**Prerequisite:** Permission.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CHIN 35211 INTENSIVE CHINESE CONVERSATION 3 Credit Hours**

This course increases students' knowledge of Chinese vocabulary and sentence structure; emphasis will be on developing fluency and oral proficiency in Chinese.

**Prerequisite:** CHIN 25202.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CHIN 35221 CHINESE IN THE REAL WORLD 3 Credit Hours**

This course focuses on how the Chinese language varies by social and cultural contexts. The instructor will utilize different socially and culturally relevant topics to help students master the structures, vocabulary, and idiomatic expressions commonly used in formal and informal situations. Students will be systematically exposed to the distinguishing features of written and spoken Chinese in terms of language form, function, and communication.

**Prerequisite:** CHIN 25202.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CHIN 45096 INDIVIDUAL INVESTIGATION 1-3 Credit Hours**

(Repeatable for a total of 6 credit hours) Individual study supervised by a faculty member on an approved topic dealing with Chinese language and/or culture.

**Prerequisite:** CHIN 25201.

**Schedule Type:** Individual Investigation

**Contact Hours:** 1-3 other

**Grade Mode:** Standard Letter-IP

**CHIN 45302 BUSINESS CHINESE 3 Credit Hours**

Study of the business protocol, language functions, texts and vocabulary associated with travel and business in the Chinese-speaking world.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CHIN 45322 CHINESE FICTION 3 Credit Hours**

This course emphasizes speaking and reading skills in Chinese through selected stories and anecdotes including sayings from classical philosophers, folk tales, legends, and great works of literature.

**Prerequisite:** CHIN 25202.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CHIN 45323 CHINESE COMPOSITION 3 Credit Hours**

This course focuses on studying modern and classical forms of Chinese literature written by acknowledged masters. Through studying these works, students improve their understanding of Chinese literature, open avenues of thought, broaden their vocabulary, master basic rules and techniques of writing, and develop the ability to write with eloquence and skill.

**Prerequisite:** CHIN 25202.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

## Classics (CLAS)

**CLAS 21201 ENGLISH WORDS FROM CLASSICAL ELEMENTS 3 Credit Hours**

Building of English vocabulary through study of basic roots from Latin and Greek; prefixes, suffixes, rules for accent and pronunciation; specialized scientific and legal terminology.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CLAS 21404 THE GREEK ACHIEVEMENT (DIVG) (KHUM) 3 Credit Hours**

A survey of the cultural achievements of the ancient Greeks as manifested in their poetry, philosophy, history and art from the Homeric period through the New Testament.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Diversity Global, Kent Core Humanities, Transfer Module Humanities

**CLAS 21405 THE ROMAN ACHIEVEMENT (DIVG) (KHUM) 3 Credit Hours**

A survey of the cultural achievements of the ancient Romans as manifested in their literature and art from the Etruscans through the Christians.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Diversity Global, Kent Core Humanities, Transfer Module Humanities

**CLAS 21406 SPORT AND ANCIENT DAILY LIFE 3 Credit Hours**

Investigation of the development of combat sports in the ancient world and the culture in which they evolved. Also emphasized is the development from amateur athletics in the Greek world to the Roman professional gladiators and charioteers.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CLAS 40793 VARIABLE TITLE WORKSHOP IN CLASSICS 1-6 Credit Hours**

(Repeatable for credit)(Slashed with CLAS 50793) Workshops individually designed to provide instruction and training in specific areas of classical studies.

**Prerequisite:** Special approval.

**Schedule Type:** Workshop

**Contact Hours:** 1-6 other

**Grade Mode:** Satisfactory/Unsatisfactory

**CLAS 41005 HISTORY OF ANCIENT GREECE 3 Credit Hours**

(Slashed with CLAS 51005) Survey of Greek history from the Bronze Age to the rise of Macedonia and Alexander the Great.

**Prerequisite:** Junior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CLAS 41006 ROMAN HISTORY 3 Credit Hours**

(Cross-listed with HIST 41006) (Slashed with CLAS 51006, HIST 51006 and HIST 71006) A survey of Roman history from its beginnings to the fall of the Roman Empire.

**Prerequisite:** Junior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CLAS 41089 CLASSICS INTERNATIONAL EXPERIENCE 1-4 Credit Hours**

(Slashed with CLAS 51089) A Kent State faculty-led study abroad experience that involves experiential activities and site visits outside the United States. May include, for example, participation in an archaeological dig or tour of sites in Italy and Greece. Course may have pre- or post-travel classroom study. Course activities may include classroom study, research, fieldwork, internships and service-learning.

**Prerequisite:** Special approval.

**Schedule Type:** Lecture, Practical Experience

**Contact Hours:** 1-4 lecture

**Grade Mode:** Standard Letter

**CLAS 41092 FIELD EXPERIENCE IN CLASSICS (ELR) 1-4 Credit Hours**

(Repeatable for a maximum of 7 credit hours)(Slashed with CLAS 51092) Travel-based study/field experience at a site or sites away from Kent State University under the supervision of members of the classics faculty. The primary purpose is the observation and study of artifacts, monuments and sites that pertain to classical antiquity. Examples of travel/study include field trips to museums, study trips to Rome or other cities and participation in an archaeological field school.

**Prerequisite:** None.

**Schedule Type:** Field Experience

**Contact Hours:** 1-4 other

**Grade Mode:** Standard Letter

**Attributes:** Experiential Learning Requirement

**CLAS 41095 SPECIAL TOPICS IN CLASSICS 3 Credit Hours**

(Repeatable for a maximum of 6 credit hours)(Slashed with CLAS 51095) Topic varies per course offering and listed in the schedule of classes.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CLAS 41096 INDIVIDUAL INVESTIGATION 1-3 Credit Hours**

(Repeatable for a total of 9 credit hours) Investigation of problems in archaeology, mythology and ancient comparative literature.

**Prerequisite:** Special approval.

**Schedule Type:** Individual Investigation

**Contact Hours:** 1-3 other

**Grade Mode:** Standard Letter-IP

**CLAS 41097 COLLOQUIUM IN CLASSICS 3 Credit Hours**

(Repeatable for credit)(Slashed with CLAS 51097) Detailed study of an aspect of antiquity that engages issues of current interest, for example women in antiquity, ancient Christianity, multiculturalism in antiquity.

**Prerequisite:** None.

**Schedule Type:** Colloquium

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**CLAS 41301 CLASSICAL MYTHOLOGY 3 Credit Hours**

(Slashed with CLAS 51301) Assessment of major streams of ancient mythology stressing broad humanistic concepts of religion, philosophy and literature.

**Prerequisite:** Sophomore standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CLAS 41304 LITERATURE OF THE ROMAN WORLD (ELR) (WIC) 3 Credit Hours**

(Slashed with CLAS 51304) Major works of Latin literature, studied in their historical context by genre; knowledge of Latin not required. Authors read include Plautus, Terence, Lucretius, Cicero, Catullus, Vergil, Horace, Petronius, Seneca, Suetonius, Tacitus and Juvenal.

**Prerequisite:** Junior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Experiential Learning Requirement, Writing Intensive Course

**CLAS 41305 CLASSICAL LITERARY STUDIES 3 Credit Hours**

(Repeatable for a maximum of 12 credit hours) (Slashed with CLAS 51305) Study of a particular literary genre. Topics are individually designed to provide instruction and training of a specific genre of Greek or Roman literature.

**Prerequisite:** Junior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CLAS 41401 GREEK ARCHAEOLOGY AND ART 3 Credit Hours**

(Cross-listed with ARTH 42031)(Slashed with CLAS 51401 and ARTH 52031) Introduction to archaeology of the Greek world with emphasis on recent discoveries and their impact on the study of Greek art, architecture and sculpture through the Hellenistic period.

**Prerequisite:** Junior or senior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CLAS 41402 ROMAN ARCHAEOLOGY AND ART 3 Credit Hours**

(Cross-listed with ARTH 42032)(Slashed with CLAS 51402 and ARTH 52032) Introduction to archaeology of the Roman world with emphasis on recent discoveries and their impact on the study of Etruscan and Roman art, architecture and sculpture through the Imperial period.

**Prerequisite:** Junior or senior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CLAS 41404 ANCIENT CHRISTIANITIES 3 Credit Hours**

In-depth examination of the formative period of Christianity and the diverse "Christianities" during the first 100 years after the death of Jesus of Nazareth, including the Judaic context for the birth of Christianity, diversity among the earliest Christian communities, and the process by which the New Testament canon was formed. Study of a variety of texts produced by the early church.

**Prerequisite:** Junior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CLAS 41503 LITERATURE OF THE ANCIENT GREEKS (ELR) (WIC) 3 Credit Hours**

(Slashed with CLAS 51503) Major works of Greek literature, studied in their historical context and by genre. Knowledge of Greek is not required.

**Prerequisite:** Junior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Experiential Learning Requirement, Writing Intensive Course

**CLAS 50793 VARIABLE TITLE WORKSHOP IN CLASSICS 1-6 Credit Hours**

(Repeatable for credit)(Slashed with CLAS 40793) Workshops individually designed to provide instruction and training in specific areas of classical studies.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Workshop

**Contact Hours:** 1-6 other

**Grade Mode:** Satisfactory/Unsatisfactory

**CLAS 51005 HISTORY OF ANCIENT GREECE 3 Credit Hours**

(Slashed with CLAS 41005) Survey of Greek history from the Bronze Age to the rise of Macedonia and Alexander the Great.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CLAS 51006 ROMAN HISTORY 3 Credit Hours**

(Cross-listed with HIST 51006) (Slashed with CLAS 41006, HIST 41006 and HIST 71006) A survey of Roman history from its beginnings to the fall of the Roman Empire.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CLAS 51089 CLASSICS INTERNATIONAL EXPERIENCE 1-4 Credit Hours**

(Slashed CLAS 51089) A Kent State faculty-led study abroad experience that involves experiential activities and site visits outside the United States. International experience may include, for example, participation in an archaeological dig or tour of sites in Italy or Greece. International experience courses may have pre-and post-travel classroom study.

Course activities include, but are not limited to, classroom study, research, fieldwork, internships and service-learning.

**Prerequisite:** Graduate Standing; and special approval.

**Schedule Type:** Lecture, Practical Experience

**Contact Hours:** 1-4 lecture

**Grade Mode:** Standard Letter

**CLAS 51092 FIELD EXPERIENCE IN CLASSICS 1-4 Credit Hours**

(Repeatable for a maximum of 7 credit hours)(Slashed with CLAS 41092)

Travel-based study/field experience at a site or sites away from Kent State University under the supervision of members of the classics faculty. The primary purpose is the observation and study of artifacts, monuments and sites that pertain to classical antiquity. Examples of travel/study include field trips to museums, study trips to Rome or other cities and participation in an archaeological field school.

**Prerequisite:** Graduate standing.

**Schedule Type:** Field Experience

**Contact Hours:** 1-4 other

**Grade Mode:** Standard Letter

**CLAS 51095 SPECIAL TOPICS IN CLASSICS 3 Credit Hours**

(Repeatable for a maximum of 6 credit hours)(Slashed with CLAS 51095) Topic varies per course offering and listed in the schedule of classes.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CLAS 51097 COLLOQUIUM IN CLASSICS 3 Credit Hours**

(Repeatable for credit) (Slashed with CLAS 41097) Detailed study of an aspect of antiquity that engages issues of current interest, for example women in antiquity, ancient Christianity, multiculturalism in antiquity.

**Prerequisite:** Graduate standing.

**Schedule Type:** Colloquium

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**CLAS 51301 CLASSICAL MYTHOLOGY 3 Credit Hours**

(Slashed with CLAS 41301) Assessment of major streams of ancient mythology stressing broad humanistic concepts of religion, philosophy and literature.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CLAS 51304 LITERATURE OF THE ROMAN WORLD 3 Credit Hours**

(Slashed with CLAS 41304) Major works of Latin literature, studied in their historical context by genre; knowledge of Latin not required. Authors read include Plautus, Terence, Lucretius, Cicero, Catullus, Vergil, Horace, Petronius, Seneca and Juvenal.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CLAS 51305 CLASSICAL LITERARY STUDIES 3 Credit Hours**

(Repeatable for a maximum of 12 credit hours) (Slashed with CLAS 41305) Study of a particular literary genre. Topics are individually designed to provide instruction and training of a specific genre of Greek or Roman literature.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CLAS 51401 GREEK ARCHAEOLOGY AND ART 3 Credit Hours**

(Slashed with CLAS 41401) (Cross-listed with ARTH 42031 and ARTH 52031) Introduction to archaeology of the Greek world with emphasis on recent discoveries and their impact on the study of Greek art, architecture and sculpture through the Hellenistic period.

**Prerequisite:** Graduate standing.

**Schedule Type:** Laboratory, Lecture, Seminar

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CLAS 51402 ROMAN ARCHAEOLOGY AND ART 3 Credit Hours**

(Cross-listed with ARTH 52032)(Slashed with CLAS 41402 and ARTH 42032) Introduction to archaeology of the Roman world with emphasis on recent discoveries and their impact on the study of Etruscan and Roman art, architecture and sculpture through the Imperial period.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CLAS 51503 LITERATURE OF THE ANCIENT GREEKS 3 Credit Hours**

(Slashed with CLAS 41503) Major works of Greek literature, studied in their historical context and by genre. Knowledge of Greek is not required.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CLAS 61404 ANCIENT CHRISTIANITIES 3 Credit Hours**

In-depth examination of the formative period of Christianity and the diverse "Christianities" during the first 100 years after the death of Jesus of Nazareth, including the Judaic context for the birth of Christianity, diversity among the earliest Christian communities, and the process by which the New Testament canon was formed. Study of a variety of texts produced by the early church.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CLAS 66398 RESEARCH 1-6 Credit Hours**

(Repeatable for maximum 15 credit hours) Research, final project or individual investigation for master's level students. Credits earned apply toward degree requirements with department approval.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Research

**Contact Hours:** 3-18 other

**Grade Mode:** Standard Letter-IP

## French (FR)

**FR 13201 ELEMENTARY FRENCH I 4 Credit Hours**

An introduction to the French language in the context of Francophone cultures.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 4 lecture

**Grade Mode:** Standard Letter

**FR 13202 ELEMENTARY FRENCH II 4 Credit Hours**

A continuation of the introduction to the French language in the context of Francophone cultures.

**Prerequisite:** FR 13201.

**Schedule Type:** Lecture

**Contact Hours:** 4 lecture

**Grade Mode:** Standard Letter

**FR 23201 INTERMEDIATE FRENCH I 3 Credit Hours**

Continued development of speaking, listening, reading and writing skills using a variety of cultural materials.

**Prerequisite:** FR 13202.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**FR 23202 INTERMEDIATE FRENCH II 3 Credit Hours**

Continuation of FR 23201.

**Prerequisite:** FR 23201.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**FR 33095 SELECTED TOPICS IN FRENCH 3 Credit Hours**

(Repeatable for a maximum of 9 credit hours) Topic to be announced in the schedule of classes.

**Prerequisite:** FR 33211.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**FR 33211 FRENCH CONVERSATION 3 Credit Hours**

A course designed to enhance students' oral proficiency through instruction in facilitating conversation and the discussion of culture-based texts.

**Prerequisite:** FR 23202.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**FR 33212 FRENCH COMPOSITION 3 Credit Hours**

A course designed to develop writing and reading skills, and in particular to prepare students to read and write about French literature.

**Prerequisite:** FR 23202; and special approval.

**Corequisite:** FR 33214.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**FR 33214 FRENCH COMPOSITION EXTENDED 2 Credit Hours**

Designed to develop writing and reading skills, and in particular to prepare students to read and write about French literature.

**Prerequisite:** FR 23202; and special approval.

**Corequisite:** FR 33212.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**FR 33215 FRENCH PHONETICS AND DICTION 3 Credit Hours**

Study of sounds of French language and their relation to spelling; application of international phonetic alphabet to French. Study augmented by recordings.

**Prerequisite:** FR 23202.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**FR 33231 TRANSLATION PRACTICE: FRENCH 1 Credit Hour**

Translation practice with French texts using principles and techniques learned in the lecture class. To be taken concurrently with TRST 30230.

**Corequisite:** TRST 30230.

**Schedule Type:** Lecture

**Contact Hours:** 1 lecture

**Grade Mode:** Standard Letter

**FR 33240 CONVERSATION FOR BUSINESS AND SPECIAL PURPOSES: FRENCH 3 Credit Hours**

Introduction to the special vocabulary of business and other special subject areas; introduces the concept of language for special purposes and emphasizes the use of special vocabulary in conversations in business and other settings.

**Prerequisite:** FR 33211.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**FR 33335 INTRODUCTION TO FRENCH THEATRE (ELR) (WIC) 3 Credit Hours**

Evolution of French dramatic literature from the middle ages to the present. Readings of representative works with lectures analyses. In French.

**Prerequisite:** FR 33212.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Experiential Learning Requirement, Writing Intensive Course



**FR 33336 INTRODUCTION TO FRENCH POETRY (ELR) (WIC) 3 Credit Hours**

Evolution of French poetry from the middle ages to the present. Readings of representative works with lectures analyses. In French.

**Prerequisite:** FR 33212.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Experiential Learning Requirement, Writing Intensive Course

**FR 33337 INTRODUCTION TO FRENCH LITERARY PROSE (ELR) (WIC) 3 Credit Hours**

Masterpieces of French literary prose from the seventeenth century to the present. Readings of representative major works, lectures, analyses. In French. This course may be used to satisfy the WIC graduation requirement with approval of major department.

**Prerequisite:** FR 33212 and FR 33214 or permission.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Experiential Learning Requirement, Writing Intensive Course

**FR 33421 FRENCH CIVILIZATION 3 Credit Hours**

A survey of French history and culture from its beginnings to World War II. Taught in French.

**Prerequisite:** FR 33212.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**FR 43091 FRENCH SEMINAR 3 Credit Hours**

(Repeatable for credit) (Slashed with FR 53091) Topic to be announced.

**Prerequisite:** One course from FR 33335 or FR 33336 or FR 33337.

**Schedule Type:** Seminar

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**FR 43093 VARIABLE TITLE WORKSHOP IN FRENCH 1-6 Credit Hours**

(Repeatable for credit) Workshops individually designed to provide instruction and training in specific areas of French studies.

**Prerequisite:** Special approval.

**Schedule Type:** Workshop

**Contact Hours:** 1-6 other

**Grade Mode:** Satisfactory/Unsatisfactory

**FR 43096 INDIVIDUAL INVESTIGATION 1-3 Credit Hours**

(Repeatable for a maximum of 6 credit hours) Allows the advanced, serious student to carry out research study project on French literature, language or culture. Prior approval of supervising faculty members department required.

**Prerequisite:** Special approval.

**Schedule Type:** Individual Investigation

**Contact Hours:** 1-3 other

**Grade Mode:** Standard Letter-IP

**FR 43213 FRENCH COMPOSITION-ADVANCED 3 Credit Hours**

(Slashed with FR 53213) French stylistics developed by analyses of literary extracts and practice in written expression.

**Prerequisite:** FR 33335 or FR 33336 or FR 33337 or FR 33421.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**FR 43216 CONTEMPORARY FRENCH CULTURE 3 Credit Hours**

(Slashed with FR 53216) A study of selected sociological, political, cultural or economic issues in the contemporary Francophone world.

**Prerequisite:** FR 33421; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**FR 43230 ADVANCED TRANSLATION PRACTICE: FRENCH (WIC) 3 Credit Hours**

Theory and practice course that discusses translation theory and emphasizes French-to-English translation of selected texts in business, technology, medicine and law.

**Prerequisite:** FR 33231.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Writing Intensive Course

**FR 43240 BUSINESS AND SPECIAL TEXTS: FRENCH (ELR) 3 Credit Hours**

Survey of the typical text types of business in the French culture and language. Practice sessions focus on reading and understanding specialized texts and on the translation and composition of selected special texts in French.

**Prerequisite:** FR 33212.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Experiential Learning Requirement

**FR 43368 THE TWENTIETH-CENTURY FRENCH NOVEL 3 Credit Hours**

Studies of selected 20th century French novels, with detailed study of the novel of one or several major writers or movements.

**Prerequisite:** 6 semester hours from the 33330-level.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**FR 43369 TWENTIETH-CENTURY FRENCH POETRY 3 Credit Hours**

(Slashed with FR 53369) A study of selected poetry of Apollinaire, Breton, Mansour, Eluard, Michaux, Char, Reverdy, Ponge, Guillevic, Jabes, Bonnefoy, Dupin, Albiach and others. Emphasis is placed on the relationship between poetry and the visual arts in the 20th century.

**Prerequisite:** 6 semester hours from the FR 33330-level.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**FR 43370 THE TWENTIETH CENTURY FRENCH THEATRE 3 Credit Hours**

(Slashed with FR 53370) Studies in French drama since 1900.

**Prerequisite:** 6 semester hours from the 33330-level.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**FR 53091 FRENCH SEMINAR 3 Credit Hours**

(Repeatable for credit) (Slashed with FR 43091) Topic to be announced.

**Prerequisite:** Graduate standing.

**Schedule Type:** Seminar

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**FR 53213 FRENCH COMPOSITION-ADVANCED 3 Credit Hours**

French stylistics developed through analyses of literary extracts and practice in written expression.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**FR 53216 CONTEMPORARY FRENCH CULTURE 3 Credit Hours**

(Slashed with FR 43216) A study of selected sociological, political, cultural or economic issues in the contemporary Francophone world.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**FR 53368 20TH-CENTURY FRENCH NOVEL 3 Credit Hours**

Study of selected 20th-century French novels, with emphasis on one or several major writers or movements.

**Prerequisite:** 6 hours from 33330-level; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**FR 53369 20TH-CENTURY FRENCH POETRY 3 Credit Hours**

(Slashed with FR 43369) A study of selected poetry of Apollinaire, Breton, Mansour, Eluard, Michaux, Char, Reverdy, Ponge, Guillevic, Jabes, Bonnefoy, Dupin, Alpiach and others. Emphasis is placed on the relationship between poetry and the visual arts in the 20th century.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**FR 53370 20TH-CENTURY FRENCH THEATRE 3 Credit Hours**

(Slashed with FR 43370) Studies in French drama since 1900.

**Prerequisite:** 6 hours from 33330-level; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**FR 63010 THE PRACTICE OF FRENCH TRANSLATION 2 Credit Hours**

Students apply linguistic and communication science concepts to case studies of language mediation.

**Prerequisite:** Graduate standing.

**Corequisite:** TRST 60010.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**FR 63093 VARIABLE TITLE WORKSHOP IN FRENCH 1-6 Credit Hours**

(Repeatable for credit) Workshops individually designed to provide instruction and training in specific areas of French studies.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Workshop

**Contact Hours:** 1-6 other

**Grade Mode:** Satisfactory/Unsatisfactory

**FR 63098 RESEARCH 1-15 Credit Hours**

(Repeatable for credit) Research or individual investigation for master's level graduate students. Credits earned applied toward degree requirements if department approves.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Research

**Contact Hours:** 1-15 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**FR 63199 THESIS I 2-6 Credit Hours**

Thesis students must register for a total of 6 hours, 2 to 6 hours in a single semester distributed over several semesters if desired.

**Prerequisite:** Graduate standing.

**Schedule Type:** Masters Thesis

**Contact Hours:** 2-6 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**FR 63201 READING FRENCH FOR GRADUATE STUDENTS 4 Credit Hours**

Introduction to the fundamentals of French grammar for graduate students. Practice in reading and translation.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 4 lecture

**Grade Mode:** Standard Letter

**FR 63240 LITERARY AND CULTURAL TRANSLATION 3 Credit Hours**

Translation of documents from a variety of literary and cultural sources, including literature, expository and journalistic prose, scholarly treatises and essays. Translation into French will also be emphasized.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**FR 63250 COMMERCIAL, LEGAL AND DIPLOMATIC TRANSLATION 3 Credit Hours**

An introduction to methods and resources for the translation of commercial, economic, financial, legal, diplomatic and governmental documents.

**Prerequisite:** TRST 60010; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**FR 63251 SCIENTIFIC, TECHNICAL AND MEDICAL TRANSLATION 3 Credit Hours**

An introduction to methods and resources for the translation of scientific, technical, industrial and medical documents.

**Prerequisite:** TRST 60010; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**FR 63299 THESIS II 2 Credit Hours**

Thesis students must continue registration each semester until all degree requirements are met.

**Prerequisite:** FR 63199; and graduate standing.

**Schedule Type:** Masters Thesis

**Contact Hours:** 2 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**FR 63979 CASE STUDY IN TRANSLATION 3 Credit Hours**

Students will be responsible for a major translation and a terminology glossary as well as a critical analysis of the source text, the problems encountered during the translation process and the strategies used to solve them.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Satisfactory/Unsatisfactory

## German (GER)

### GRE 14201 ELEMENTARY CLASSICAL GREEK I 4 Credit Hours

An introduction to the classical Greek language in the context of ancient Greek culture.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 4 lecture

**Grade Mode:** Standard Letter

### GRE 14202 ELEMENTARY CLASSICAL GREEK II 4 Credit Hours

A continuation of the introduction to the classical Greek language in the context of ancient Greek culture.

**Prerequisite:** GRE 14201.

**Schedule Type:** Lecture

**Contact Hours:** 4 lecture

**Grade Mode:** Standard Letter

### GRE 24201 INTERMEDIATE CLASSICAL GREEK I: READINGS 3 Credit Hours

Excerpts from classical Greek literature with emphasis on translation into English.

**Prerequisite:** GRE 14202.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

### GRE 24202 INTERMEDIATE CLASSICAL GREEK II: READINGS 3 Credit Hours

Excerpts from classical Greek literature with emphasis on both prose (e.g. Plato) and poetry (e.g. Euripides).

**Prerequisite:** GRE 24201.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

### GRE 34370 PLATO: APOLOGY AND PHAEDO 3 Credit Hours

Readings in the original Greek of Plato's dialogues centering on the trial, conviction and death of Socrates.

**Prerequisite:** GRE 24202.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

### GRE 34371 HOMER 3 Credit Hours

Selections from the Iliad or Odyssey studied from a literary and grammatical standpoint.

**Prerequisite:** GRE 24202.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

### GRE 34372 ADVANCED READINGS IN GREEK 3 Credit Hours

Readings in the original Greek of authors in poetry and prose studied from a literary and grammatical standpoint.

**Prerequisite:** GRE 24202; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

### GRE 40393 VARIABLE TITLE WORKSHOP 1-6 Credit Hours

(Repeatable for credit) (Slashed with GRE 50393) Workshops individually designed to provide instruction and training in specific areas of Greek studies.

**Prerequisite:** Department permission.

**Schedule Type:** Workshop

**Contact Hours:** 1-6 other

**Grade Mode:** Satisfactory/Unsatisfactory

### GRE 44096 INDIVIDUAL INVESTIGATION 1-3 Credit Hours

(Repeatable for credit) Investigation of problems in Greek literature or linguistics.

**Prerequisite:** Special approval.

**Schedule Type:** Individual Investigation

**Contact Hours:** 1-3 other

**Grade Mode:** Standard Letter-IP

### GRE 50393 VARIABLE TITLE WORKSHOP IN GREEK 2-4 Credit Hours

(Repeatable for credit) (Slashed with GRE 40393) Variable topic offered as need arises to train in specific area of field.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Workshop

**Contact Hours:** 2-4 other

**Grade Mode:** Satisfactory/Unsatisfactory

## Greek (GRE)

### GRE 14201 ELEMENTARY CLASSICAL GREEK I 4 Credit Hours

An introduction to the classical Greek language in the context of ancient Greek culture.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 4 lecture

**Grade Mode:** Standard Letter

### GRE 14202 ELEMENTARY CLASSICAL GREEK II 4 Credit Hours

A continuation of the introduction to the classical Greek language in the context of ancient Greek culture.

**Prerequisite:** GRE 14201.

**Schedule Type:** Lecture

**Contact Hours:** 4 lecture

**Grade Mode:** Standard Letter

### GRE 24201 INTERMEDIATE CLASSICAL GREEK I: READINGS 3 Credit Hours

Excerpts from classical Greek literature with emphasis on translation into English.

**Prerequisite:** GRE 14202.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

### GRE 24202 INTERMEDIATE CLASSICAL GREEK II: READINGS 3 Credit Hours

Excerpts from classical Greek literature with emphasis on both prose (e.g. Plato) and poetry (e.g. Euripides).

**Prerequisite:** GRE 24201.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**GRE 34370 PLATO:APOLOGY AND PHAEDO 3 Credit Hours**

Readings in the original Greek of Plato's dialogues centering on the trial, conviction and death of Socrates.

**Prerequisite:** GRE 24202.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**GRE 34371 HOMER 3 Credit Hours**

Selections from the Iliad or Odyssey studied from a literary and grammatical standpoint.

**Prerequisite:** GRE 24202.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**GRE 34372 ADVANCED READINGS IN GREEK 3 Credit Hours**

Readings in the original Greek of authors in poetry and prose studied from a literary and grammatical standpoint.

**Prerequisite:** GRE 24202; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**GRE 40393 VARIABLE TITLE WORKSHOP 1-6 Credit Hours**

(Repeatable for credit) (Slashed with GRE 50393) Workshops individually designed to provide instruction and training in specific areas of Greek studies.

**Prerequisite:** Department permission.

**Schedule Type:** Workshop

**Contact Hours:** 1-6 other

**Grade Mode:** Satisfactory/Unsatisfactory

**GRE 44096 INDIVIDUAL INVESTIGATION 1-3 Credit Hours**

(Repeatable for credit) Investigation of problems in Greek literature or linguistics.

**Prerequisite:** Special approval.

**Schedule Type:** Individual Investigation

**Contact Hours:** 1-3 other

**Grade Mode:** Standard Letter-IP

**GRE 50393 VARIABLE TITLE WORKSHOP IN GREEK 2-4 Credit Hours**

(Repeatable for credit) (Slashed with GRE 40393) Variable topic offered as need arises to train in specific area of field.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Workshop

**Contact Hours:** 2-4 other

**Grade Mode:** Satisfactory/Unsatisfactory

## Hebrew (HEBR)

**HEBR 12101 ELEMENTARY HEBREW I 4 Credit Hours**

An introduction to the modern Hebrew language in the context of Israeli culture.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 4 lecture

**Grade Mode:** Standard Letter

**HEBR 12102 ELEMENTARY HEBREW II 4 Credit Hours**

A continuation of the introduction to the modern Hebrew language in the context of Israeli culture.

**Prerequisite:** HEBR 12101.

**Schedule Type:** Lecture

**Contact Hours:** 4 lecture

**Grade Mode:** Standard Letter

**HEBR 22104 INTERMEDIATE HEBREW I 3 Credit Hours**

Continued development of speaking, listening, reading and writing skills using a variety of cultural materials.

**Prerequisite:** HEBR 12102.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HEBR 22105 INTERMEDIATE HEBREW II 3 Credit Hours**

Continuation of HEBR 22104.

**Prerequisite:** HEBR 22104.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

## Heritage Languages (HRTG)

**HRTG 10101 ELEMENTARY I (VARIABLE LANGUAGE) 4 Credit Hours**

An introduction to a heritage language in the context of the culture of its speakers.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 4 lecture

**Grade Mode:** Standard Letter

**HRTG 10102 ELEMENTARY II (VARIABLE LANGUAGE) 4 Credit Hours**

A continuation of the introduction to a heritage language in the context of the culture of its speakers.

**Prerequisite:** HRTG 10101; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 4 lecture

**Grade Mode:** Standard Letter

**HRTG 20201 INTERMEDIATE I (VARIABLE LANGUAGE) 3 Credit Hours**

Continued development of speaking, listening, reading and writing skills using a variety of cultural materials.

**Prerequisite:** HRTG 10102; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HRTG 20202 INTERMEDIATE II (VARIABLE LANGUAGE) 3 Credit Hours**

Continuation of HRTG 20201.

**Prerequisite:** HRTG 20201.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HRTG 30095 SPECIAL TOPICS 1-3 Credit Hours**

(Repeatable for credit) Topic announced in schedule of classes.

**Prerequisite:** Permission.

**Schedule Type:** Lecture

**Contact Hours:** 1-3 lecture

**Grade Mode:** Standard Letter

## Italian (ITAL)

**ITAL 15201 ELEMENTARY ITALIAN I 4 Credit Hours**

An introduction to the Italian language in the context of Italian culture.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 4 lecture

**Grade Mode:** Standard Letter

**Attributes:** TAG Foreign Language

**ITAL 15202 ELEMENTARY ITALIAN II 4 Credit Hours**

A continuation of the introduction to the Italian language in the context of Italian culture.

**Prerequisite:** ITAL 15201.

**Schedule Type:** Lecture

**Contact Hours:** 4 lecture

**Grade Mode:** Standard Letter

**Attributes:** TAG Foreign Language

**ITAL 15204 BASIC CONVERSATIONAL ITALIAN I 2 Credit Hours**

Exposure to basic grammar and to current Italian useful to travelers. Not applicable to fulfillment of foreign language requirement.

**Prerequisite:** Special approval.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**ITAL 25201 INTERMEDIATE ITALIAN I 3 Credit Hours**

Continued development of speaking, listening, reading and writing skills using a variety of cultural materials.

**Prerequisite:** ITAL 15202.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** TAG Foreign Language

**ITAL 25202 INTERMEDIATE ITALIAN II 3 Credit Hours**

Continuation of ITAL 25201.

**Prerequisite:** ITAL 25201.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** TAG Foreign Language

**ITAL 35211 COMPOSITION AND CONVERSATION: CONTEMPORARY ITALIAN SOCIETY 3 Credit Hours**

This course is designed to develop acquisition of written and oral proficiency through the study and practice of written and spoken Italian in the context of contemporary societal issues.

**Prerequisite:** ITAL 25202.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ITAL 35213 COMPOSITION AND CONVERSATION: MEDIA AND INFORMATION IN ITALY 3 Credit Hours**

This course is designed to develop acquisition of written and oral proficiency through the study and practice of written and spoken Italian in the context of contemporary Italian media and information-gathering.

**Prerequisite:** ITAL 25202.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ITAL 35331 EARLY ITALIAN LITERATURE 3 Credit Hours**

A survey of Italian literature from its medieval origins through the Baroque period.

**Prerequisite:** ITAL 35211 or ITAL 35213.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ITAL 35332 RECENT ITALIAN LITERATURE (ELR) 3 Credit Hours**

A survey of Italian literature from the Enlightenment through the 1900s and into the 21st century.

**Prerequisite:** ITAL 35211 or ITAL 35213.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Experiential Learning Requirement

**ITAL 35421 ITALIAN CIVILIZATION 3 Credit Hours**

Lectures, readings, oral and written reports on outstanding features of the culture and civilization of Italy.

**Prerequisite:** ITAL 25202.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ITAL 35597 COLLOQUIUM 3 Credit Hours**

(Repeatable for credit) Variable topic course deals with single literary theme in Italian literature or a single author. May be offered in Italian or in English translation.

**Prerequisite:** Permission.

**Schedule Type:** Colloquium

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**ITAL 45093 VARIABLE TITLE WORKSHOP IN ITALIAN 1-6 Credit Hours**

(Repeatable for credit) Workshops individually designed to provide instruction and training in specific areas of Italian studies.

**Prerequisite:** Departmental permission.

**Schedule Type:** Workshop

**Contact Hours:** 1-6 other

**Grade Mode:** Satisfactory/Unsatisfactory

**ITAL 45095 SPECIAL TOPICS IN ITALIAN 3 Credit Hours**

Designed to instruct students on a specific topic in the area of Italian studies.

**Prerequisite:** ITAL 35211.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ITAL 45096 INDIVIDUAL INVESTIGATION 1-3 Credit Hours**

(Repeatable for a total of 6 credit hours) Allows the advanced, serious student to carry out research study project on Italian literature, language or culture. Prior approval of supervising faculty member department required.

**Prerequisite:** ITAL 25202; and junior standing; and special approval.

**Schedule Type:** Individual Investigation

**Contact Hours:** 1-3 other

**Grade Mode:** Standard Letter-IP

**ITAL 45212 ADVANCED ITALIAN CONVERSATION 3 Credit Hours**

Designed to develop students' ability to employ acquired grammar and vocabulary in conversation in Italian. Students will elaborate on cultural and social aspects of Italy presented in class and actively participate in class discussions.

**Prerequisite:** ITAL 35211 or 35213.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter



## Japanese (JAPN)

### JAPN 15101 ELEMENTARY JAPANESE I 4 Credit Hours

Introduction to modern standard Japanese in the context of Japanese culture.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 4 lecture

**Grade Mode:** Standard Letter

### JAPN 15102 ELEMENTARY JAPANESE II 4 Credit Hours

A continuation of the introduction to modern standard Japanese in the context of Japanese culture.

**Prerequisite:** JAPN 15101.

**Schedule Type:** Lecture

**Contact Hours:** 4 lecture

**Grade Mode:** Standard Letter

### JAPN 25201 INTERMEDIATE JAPANESE I 4 Credit Hours

Continued development of speaking, listening, reading and writing skills using a variety of cultural materials.

**Prerequisite:** JAPN 15102.

**Schedule Type:** Lecture

**Contact Hours:** 4 lecture

**Grade Mode:** Standard Letter

### JAPN 25202 INTERMEDIATE JAPANESE II 4 Credit Hours

Continuation of JAPN 25201.

**Prerequisite:** JAPN 25201.

**Schedule Type:** Lecture

**Contact Hours:** 4 lecture

**Grade Mode:** Standard Letter

### JAPN 30095 SPECIAL TOPICS 3 Credit Hours

(Repeatable for credit) Topic to be announced in schedule of classes.

**Prerequisite:** Permission.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

### JAPN 35101 INTENSIVE JAPANESE GRAMMAR 3 Credit Hours

A continuation of the study of modern standard Japanese grammar. Focus on passive, causative, passive-causative forms.

**Prerequisite:** JAPN 25202 with a minimum C grade.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

### JAPN 35325 READINGS IN MODERN JAPANESE 3 Credit Hours

Close readings of contemporary Japanese topics such as technology, pop culture, food, geography, etc. Emphasizes reading skills, vocabulary, and kanji.

**Pre/corequisite:** JAPN 35101.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

### JAPN 35326 READINGS IN TRADITIONAL JAPANESE 3 Credit Hours

Close readings of traditional Japanese topics such as folk tales, arts, history, haiku, etc. Emphasizes reading skills, vocabulary and Kanji.

**Pre/corequisite:** JAPN 35101.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

### JAPN 45096 INDIVIDUAL INVESTIGATION IN JAPANESE 1-3 Credit Hours

(Repeatable for credit) Individual study supervised by a faculty member on an approved topic dealing with Japanese language and-or culture.

**Prerequisite:** JAPN 25201.

**Schedule Type:** Individual Investigation

**Contact Hours:** 1-3 other

**Grade Mode:** Standard Letter-IP

### JAPN 45211 WRITING IN JAPANESE 3 Credit Hours

Advanced study of Japanese with emphasis on writing in different styles (essays, questionnaires, charts, emails, etc).

**Pre/corequisite:** JAPN 35101.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

### JAPN 45212 ORAL COMMUNICATION IN JAPANESE 3 Credit Hours

The class focuses on oral communication. Students practice expressing their opinions on familiar subjects and various topics related to Japanese culture through group discussion, interviews, role plays, and presentations. They learn different communication strategies and conversation styles from casual to formal.

**Pre/corequisite:** JAPN 35101.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

### JAPN 45301 BUSINESS JAPANESE 3 Credit Hours

Development of the four language skills in a manner specific to Japanese corporate settings. Introduces Japanese business practice and business etiquette.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

### JAPN 45411 VOICES FROM JAPAN 3 Credit Hours

Designed to further develop students' proficiency in speaking, listening, writing and reading comprehension. The textbook includes interviews with Japanese from various backgrounds.

**Pre/corequisite:** JAPN 35101.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

### JAPN 45421 JAPANESE CULTURE 3 Credit Hours

Explores key aspects of traditional and contemporary Japanese culture. Taught in English; no knowledge of Japanese necessary.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

### JAPN 45591 VARIABLE TOPIC SEMINAR IN JAPANESE 3 Credit Hours

(Repeatable for credit) Seminar in Japanese literature or culture; course may be repeated when content varies. Student should have completed at least 9 hours of upper division work in Japanese.

**Prerequisite:** Special approval.

**Schedule Type:** Seminar

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**JAPN 55301 BUSINESS JAPANESE 3 Credit Hours**

Development of the four language skills in a manner specific to Japanese corporate settings. Introduces Japanese business practice and business etiquette.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**JAPN 65010 THE PRACTICE OF JAPANESE TRANSLATION 2 Credit Hours**

Provides an introduction to the translation of non-specialized, non-fiction Japanese texts, focusing on common problem areas, general translation strategies, and specific techniques for resolving problems.

**Prerequisite:** Graduate standing.

**Corequisite:** TRST 60010.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**JAPN 65091 SEMINAR 3 Credit Hours**

(Repeatable for credit) Topic announced in schedule of classes; may be repeated when content varies.

**Prerequisite:** Graduate standing.

**Schedule Type:** Seminar

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**JAPN 65098 RESEARCH 1-15 Credit Hours**

(Repeatable for credit) Research or individual investigation for master's level graduate students. Credits earned applied toward degree requirements if department approves.

**Prerequisite:** Graduate standing; and departmental approval.

**Schedule Type:** Research

**Contact Hours:** 1-15 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**JAPN 65240 LITERARY AND CULTURAL TRANSLATION 3 Credit Hours**

Translation of documents from a variety of literary and cultural sources, including literature, expository and journalistic prose, scholarly treatises and essays.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**JAPN 65250 COMMERCIAL, LEGAL AND DIPLOMATIC TRANSLATION 3 Credit Hours**

An introduction to methods and resources for the translation of commercial, economic, financial, legal, diplomatic and governmental documents.

**Prerequisite:** TRST 60010; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**JAPN 65251 SCIENTIFIC, TECHNICAL AND MEDICAL TRANSLATION 3 Credit Hours**

An introduction to methods and resources for the translation of scientific, technical, industrial and medical documents.

**Prerequisite:** TRST 60010; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**JAPN 65979 CASE STUDY IN TRANSLATION 3 Credit Hours**

Students will be responsible for a major translation and a terminology glossary as well as a critical analysis of the source text, the problems encountered during the translation process and the strategies used to solve them.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Satisfactory/Unsatisfactory

## Latin (LAT)

**LAT 16201 ELEMENTARY LATIN I 4 Credit Hours**

An introduction to the classical Latin language in the context of ancient Roman culture.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 4 lecture

**Grade Mode:** Standard Letter

**LAT 16202 ELEMENTARY LATIN II 4 Credit Hours**

A continuation of the introduction to the classical Latin language in the context of ancient Roman culture.

**Prerequisite:** LAT 16201.

**Schedule Type:** Lecture

**Contact Hours:** 4 lecture

**Grade Mode:** Standard Letter

**LAT 26201 INTERMEDIATE LATIN I: READINGS 3 Credit Hours**

Excerpts from Latin literature with emphasis on translation into English.

**Prerequisite:** LAT 16202.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**LAT 26202 INTERMEDIATE LATIN II: READINGS 3 Credit Hours**

Excerpts from Latin literature with emphasis on both prose (e.g., Caesar, Cicero) and poetry (Vergil, Catullus).

**Prerequisite:** LAT 26201.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**LAT 36170 CICERO 3 Credit Hours**

Readings in Cicero's orations and philosophical works, stressing rhetorical techniques. Consideration of Cicero's role in Roman history and his place in Latin literature.

**Prerequisite:** LAT 26202.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**LAT 36171 VERGIL 3 Credit Hours**

A study of the Latin text of Vergil's Aeneid stressing the poetry of the language. Consideration of entire poem and its impact on Latin literature.

**Prerequisite:** LAT 26202.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**LAT 36172 ADVANCED READINGS IN LATIN 3 Credit Hours**

Readings in the original Latin of prose and poetry authors studied from a literary and grammatical standpoint.

**Prerequisite:** LAT 26202.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**LAT 40393 VARIABLE TITLE WORKSHOP 1-6 Credit Hours**

(Repeatable for credit) Workshops individually designed to provide instruction and training in Latin studies. S u graded.

**Prerequisite:** Departmental permission.

**Schedule Type:** Workshop

**Contact Hours:** 1-6 other

**Grade Mode:** Satisfactory/Unsatisfactory

**LAT 41214 LATIN EPIGRAPHY 3 Credit Hours**

Study of ancient inscriptions (funerary, career, documentary, graffiti, etc.) preserved on any kind of durable material, with focus on cultural information necessary to understand the content and significance of the inscriptions under investigation.

**Prerequisite:** LAT 36170 or LAT 36171; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**LAT 41304 ROMAN HISTORIANS 3 Credit Hours**

(Slashed with LAT 51304) Stylistics and cultural context of Roman historians. Readings from any of the following: Caesar, Livy, Suetonius, Tacitus.

**Prerequisite:** LAT 36170 or LAT 36171; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**LAT 41305 ROMAN COMEDY AND SATIRE 3 Credit Hours**

Stylistics, history and cultural context of Roman comedy and satire. Readings from any of the following: Plautus, Terence, Horace, Juvenal, Persius, Martial.

**Prerequisite:** LAT 36170 or LAT 36171; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**LAT 41306 LATIN EPIC 3 Credit Hours**

(Slashed with LAT 51306) Stylistics, history and cultural context of Latin epic poetry. Readings from any of the following: Vergil, Lucretius, Ovid, Lucan, Statius.

**Prerequisite:** LAT 36170 or LAT 36171; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**LAT 41307 LYRIC AND ELEGIAC POETRY 3 Credit Hours**

(Slashed with LAT 51307) Stylistics, history and cultural context of Latin lyric and elegiac poetry. Readings from any of the following: Catullus, Horace, Propertius, Tibullus, Ovid.

**Prerequisite:** LAT 36170 or LAT 36171; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**LAT 41308 ORATORY AND LETTERS 3 Credit Hours**

Stylistics, history and cultural context of Latin oratory and the Latin epistle. Readings from any of the following: Cicero, Seneca, Pliny.

**Prerequisite:** LAT 36170 or LAT 36171; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**LAT 46095 SELECTED TOPICS IN LATIN 3 Credit Hours**

(Repeatable for credit) Topic announced in the schedule of classes.

**Prerequisite:** LAT 36170 or LAT 36171.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**LAT 46096 INDIVIDUAL INVESTIGATION 1-3 Credit Hours**

(Repeatable for credit) Investigation of problems in Latin literature or linguistics.

**Prerequisite:** Minimum 3 hours of coursework at the 40000-level; and departmental special approval.

**Schedule Type:** Individual Investigation

**Contact Hours:** 1-3 other

**Grade Mode:** Standard Letter-IP

**LAT 46211 LATIN PROSE COMPOSITION 3 Credit Hours**

Analysis of prose models; writing of connected Latin prose with attention to the Latin idiom.

**Prerequisite:** LAT 36170 or LAT 36171.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**LAT 46373 ADVANCED PROSE AUTHORS 3 Credit Hours**

(Repeatable for credit) Consideration of a major prose author such as Pliny the Younger, Livy, Tacitus or Suetonius.

**Prerequisite:** LAT 36170 or LAT 36171.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**LAT 50393 VARIABLE TITLE WORKSHOP IN LATIN 1-6 Credit Hours**

(Repeatable for credit) Workshops individually designed to provide instruction and training in Latin studies.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Workshop

**Contact Hours:** 1-6 other

**Grade Mode:** Satisfactory/Unsatisfactory

**LAT 51304 ROMAN HISTORIANS 3 Credit Hours**

(Slashed with LAT 41304) Stylistics and cultural context of Roman historians. Readings from any of the following: Caesar, Livy, Suetonius, Tacitus.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**LAT 51306 LATIN EPIC 3 Credit Hours**

(Slashed with LAT 41306) Stylistics, history and cultural context of Latin epic. Readings from any of the following: Vergil, Ovid, Lucan, Lucretius, Statius.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**LAT 51307 LYRIC AND ELEGIAC POETRY 3 Credit Hours**

(Slashed with LAT 41307) Stylistics, history and cultural context of Latin lyric and elegiac poetry. Readings from any of the following. Catullus, Horace, Propertius, Tibullus, Ovid.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**LAT 56095 SELECTED TOPICS IN LATIN 3 Credit Hours**

(Repeatable for a maximum of 15 credit hours) Topic to be announced in semester schedule of classes.

**Prerequisite:** LAT 36171; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**LAT 61001 RESEARCH AND WRITING 3 Credit Hours**

Use of lexical tools, bibliographies and corpora specific to research in Classics and Latin. Conventions of scholarship in the discipline of Classics. To be taken in conjunction with a 50000 or 60000-level course in Latin literature.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**LAT 61214 LATIN EPIGRAPHY 3 Credit Hours**

Study of ancient inscriptions (funerary, career, documentary, graffiti, etc.) preserved on any kind of durable material, with focus on cultural information necessary to understand the content and significance of the inscriptions under investigation.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**LAT 61305 ROMAN COMEDY AND SATIRE 3 Credit Hours**

Stylistics, history and cultural context of Roman comedy and satire. Readings from any of the following: Plautus, Terence, Horace, Juvenal, Persius, Martial.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**LAT 61308 ORATORY AND LETTERS 3 Credit Hours**

Stylistics, history and cultural context of Latin oratory and the Latin epistle. Readings from any of the following: Cicero, Seneca, Pliny.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**LAT 66199 THESIS I 2-6 Credit Hours**

Thesis students must register for a total of 6 hours, 2 to 6 hours in single semester distributed over several semesters if desired.

**Prerequisite:** Graduate standing.

**Schedule Type:** Masters Thesis

**Contact Hours:** 2-6 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**LAT 66211 ADVANCED PROSE COMPOSITION 3 Credit Hours**

More thorough training in composition where need is established.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**LAT 66299 THESIS II 2 Credit Hours**

Thesis students must continue registration each semester until all degree requirements are met.

**Prerequisite:** LAT 66199; and graduate standing.

**Schedule Type:** Masters Thesis

**Contact Hours:** 3 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**LAT 66391 SEMINAR IN CLASSICAL LITERATURE 2,3 Credit Hours**

(Repeatable for credit) Topics to be announced.

**Prerequisite:** Graduate standing.

**Schedule Type:** Seminar

**Contact Hours:** 2-3 other

**Grade Mode:** Standard Letter-IP

**LAT 66398 RESEARCH 1-15 Credit Hours**

(Repeatable for credit) Research or individual investigation for master's level graduate students. Credits earned applied toward degree requirements if department approves.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Research

**Contact Hours:** 1-15 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

## Modern and Classical Language Studies (MCLS)

**MCLS 10001 INTRODUCTION TO STRUCTURAL CONCEPTS FOR LANGUAGE STUDENTS 3 Credit Hours**

Prepares students for successful study of a foreign language; includes introduction to basic grammatical concepts such as use of verb tenses, personal pronouns, etc., as well as strategies for learning a foreign language efficiently.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MCLS 10095 SPECIAL TOPICS IN ELEMENTARY FOREIGN LANGUAGE STUDY 1-3 Credit Hours**

(Repeatable for credit) Study of a foreign language at the elementary level (Elementary I or II) or intermediate level (Intermediate I or II) as determined appropriate by the department. No proficiency needed for work at the Elementary I level; proficiency equivalent of Elementary I for work at the Elementary II level, at Elementary II for the Intermediate I level, and at Intermediate I for the Intermediate II level.

**Prerequisite:** Special approval.

**Schedule Type:** Lecture

**Contact Hours:** 1-3 other

**Grade Mode:** Standard Letter

**MCLS 20001 GLOBAL LITERACY AND CULTURAL AWARENESS (KADL) 3 Credit Hours**

Introduction to dimensions of cultural identity and parameters of cultural expression, with a focus on fostering cultural awareness skills. By exploring the ways in which culture shapes us, students gain a better understanding of the dynamics shaping their world, the world of others, and their respective places in it. Discussion of real-world critical incidents, authentic cultural ethnographies, and case studies provide students with concrete examples and contexts to solve problems linked to encounters with persons of different linguistic and cultural backgrounds.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Kent Core Additional

**MCLS 20091 VARIABLE CONTENT SEMINAR IN GLOBAL LITERACY: CASE STUDIES 3 Credit Hours**

(Repeatable for credit) In-depth study of the interaction between two or more cultures of the world, focusing on the impact of linguistic and other cultural differences. Topics will vary.

**Prerequisite:** None.

**Schedule Type:** Seminar

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MCLS 21417 MULTICULTURALISM IN TODAY'S GERMANY (DIVG) 3 Credit Hours**

This course examines how issues of diversity have shaped German culture and traces the country's transformation into a postnational, multicultural society. Taught in English; knowledge of German not necessary.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Diversity Global

**MCLS 28403 HISPANICS IN THE UNITED STATES 3 Credit Hours**

An introduction to historic and cultural aspects of Latino experiences in the United States using a comparative approach focusing on Mexicans, Puerto Ricans, Cubans, Central Americans and other immigrants from other Latin American countries, living in the United States. The course is taught in English.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MCLS 28404 THE LATIN AMERICAN EXPERIENCE (DIVG) 3 Credit Hours**

An introduction to various aspects of contemporary Latin American societies and cultures. Taught in English; knowledge of a foreign language is not necessary.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Diversity Global

**MCLS 30420 FOREIGN LANGUAGES AND CULTURE STUDIES 3 Credit Hours**

Examines the anthropological, linguistic and cultural dimensions involved in language interactions. Students acquire the skills necessary to analyze language and culture "in action" from verbal and non-verbal perspectives, and to identify and reflect on the distinctive viewpoints of other cultures and speakers of other languages. Interactive lectures, discussions and application activities build on students' current linguistic and cultural competence.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MCLS 30660 ORIENTATION TO SECOND LANGUAGE PEDAGOGY 3 Credit Hours**

Theories of human development and learning, second language acquisition research and second language methodology form the basis for classroom practices. Peer-teaching and 30 hours of field experience required.

**Prerequisite:** Special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MCLS 39597 INTRADEPARTMENTAL COLLOQUIUM 1-4 Credit Hours**

(Repeatable for credit) Permits students to explore areas of special interest not usually covered in standard departmental courses, e.g. movies and literature, women in literature.

**Prerequisite:** None.

**Schedule Type:** Colloquium

**Contact Hours:** 1-4 other

**Grade Mode:** Standard Letter

**MCLS 40093 VARIABLE TITLE WORKSHOP IN MODERN AND CLASSICAL LANGUAGE STUDIES 1-6 Credit Hours**

(Repeatable for credit) Workshops individually designed to provide instruction and training in specific areas of modern and classical language studies.

**Prerequisite:** Departmental special approval.

**Schedule Type:** Workshop

**Contact Hours:** 1-6 other

**Grade Mode:** Satisfactory/Unsatisfactory

**MCLS 40095 SELECTED TOPICS 1-3 Credit Hours**

(Repeatable for credit when topic varies) Topic to be announced in the schedule of classes.

**Prerequisite:** Senior standing.

**Schedule Type:** Lecture

**Contact Hours:** 1-3 lecture

**Grade Mode:** Standard Letter

**MCLS 40525 INQUIRY INTO PROFESSIONAL PRACTICE 3 Credit Hours**

Foreign language teaching as a profession and the teacher as disciplined investigator. The final seminar of four it is conducted during the student teaching semester with emphasis on collaborative and individual classroom problem solving.

**Prerequisite:** Special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter



**MCLS 40654 COMPUTERS IN SECOND LANGUAGE TEACHING 3  
Credit Hours**

(Slashed and MCLS 50654) Designed for future teachers of language and culture, this course explores the availability of technology, its implementation in the classroom and its integration with second language skills.

**Prerequisite:** MCLS 30660.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MCLS 40657 STUDENT TEACHING OF A SECOND LANGUAGE (ELR)  
3-9 Credit Hours**

Supervised practicum in the teaching of a second language, grades K-12.

**Prerequisite:** Official valid certification of child safety training, approved basic life support and ALICE training must be presented to the campus office of clinical experience or designated faculty/staff at regional campuses as prerequisite for student teaching; and special approval.

**Schedule Type:** Practical Experience

**Contact Hours:** 3-9 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**Attributes:** Experiential Learning Requirement

**MCLS 40660 METHODS OF TEACHING FOREIGN LANGUAGE 3  
Credit Hours**

Theoretical bases, approaches, methods, materials and techniques of foreign language instruction at the elementary and secondary levels. Peer-teaching and 30 hours of field experience required.

**Prerequisite:** MCLS 30660; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MCLS 50093 VARIABLE TITLE WORKSHOP IN MODERN AND  
CLASSICAL LANGUAGE STUDIES 1-6 Credit Hours**

(Repeatable for credit) Workshops individually designed to provide instruction and training in specific areas of modern and classical language studies.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Workshop

**Contact Hours:** 1-6 other

**Grade Mode:** Satisfactory/Unsatisfactory

**MCLS 50095 SELECTED TOPICS 1-3 Credit Hours**

(Repeatable for credit when topic varies) Topic to be announced in the schedule of classes.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 1-3 lecture

**Grade Mode:** Standard Letter

**MCLS 50654 COMPUTERS IN SECOND LANGUAGE TEACHING 3  
Credit Hours**

(Slashed with MCLS 40654) Designed for teachers of language and culture, this course explores the availability of technology, its implementation in the classroom and its integration with foreign language skills.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MCLS 50660 METHODS OF TEACHING FOREIGN LANGUAGES 3  
Credit Hours**

Theoretical bases, approaches, methods, materials and techniques of foreign language instruction at the elementary and secondary levels. Peer teaching 30 hours of field experience and curriculum guide required.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MCLS 60020 SEMEIOTICS 3 Credit Hours**

(Cross-listed PHIL 61055) An introduction to contemporary theories of semeiotics and to the application of those theories to linguistics, literature, translation and technology.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MCLS 60094 COLLEGE TEACHING OF FOREIGN LANGUAGES 1  
Credit Hour**

(Repeatable for credit) An introduction to current principles and issues in the teaching of foreign languages at the college elementary and intermediate levels. Required of departmental teaching assistants.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 1 lecture

**Grade Mode:** Satisfactory/Unsatisfactory

**MCLS 60330 APPROACHES TO LITERATURE AND CULTURE 3 Credit  
Hours**

Introduction to the major critical theories used for the analysis of literature and culture.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MCLS 60601 LINGUISTICS FOR THE LANGUAGE PROFESSIONS 3  
Credit Hours**

(Cross-listed with ENG 63040) Students will be introduced to basic linguistic issues and how these relate to the language professions. Course focuses on functional principles, especially on options to express textual, interpersonal and ideational/experiential meaning.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MCLS 60621 THE PRAGMATICS OF CONVERSATION 3 Credit Hours**

Theories of pragmatics, conversational structure and strategies with practical applications for teaching conversation strategies to foreign/second language learners.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MCLS 60622 TEACHING LITERATURE AND CULTURE 3 Credit Hours**  
(Cross-listed with ENG 63038) Students will explore theories of literature and culture teaching as well as strategies for teaching literature and culture.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MCLS 60623 SOCIOCULTURAL THEORY AND FOREIGN AND SECOND LANGUAGE ACQUISITION 3 Credit Hours**

The foundations of sociocultural theory and its applications to the second and foreign language classroom.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MCLS 60624 HERITAGE LANGUAGES AND SECOND LANGUAGE LEARNING 3 Credit Hours**

(Cross-listed with ENG 63047) Theory and practice in language education of heritage language speakers. Ethnic, minority, ancestral, and community languages and language practices will be explored with implications for second and additional language learning in English, foreign language, bilingual education.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MCLS 60661 THEORIES IN SECOND LANGUAGE ACQUISITION 3 Credit Hours**

(Slashed with ENG 63033 and ENG 73033) This course surveys the major theoretical approaches to language acquisition, concentrating on second language acquisition and the relationship between acquisition/learning research and second language teaching approaches.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MCLS 60663 SECOND LANGUAGE CURRICULUM AND TESTING 3 Credit Hours**

(Cross-listed with ENG 63039) Students will study second language curriculum and testing design and current issues, including oral proficiency testing.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MCLS 60664 SECOND LANGUAGE READING 3 Credit Hours**

(Cross-listed with ENG 63044) This course addresses a wide variety of topics related to second language reading, including theoretical perspectives, the process of learning to read, models of how reading happens, comprehension, fluency, discourse structures, strategy use, and vocabulary acquisition. Teaching issues related to second language reading will also be addressed directly, namely assessment and curriculum building.

**Prerequisite:** Graduate standing.

**Schedule Type:** Seminar

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MCLS 60665 SECOND LANGUAGE WRITING 3 Credit Hours**

(Cross-listed with ENG 63043) Theory and practice in teaching second language writing. Topics will include current and historic approaches to second language writing, approaches to tutoring international students in writing centers, teacher and peer response, error correction and technology in second language writing instruction.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MCLS 60698 SECOND LANGUAGE RESEARCH METHODS 3 Credit Hours**

(Cross-listed with ENG 63098) Students learn how second language research influences their teaching practices by studying research texts and recent journal articles and conducting a research project.

**Prerequisite:** Graduate standing.

**Schedule Type:** Research

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

## Russian (RUSS)

**RUSS 12201 ELEMENTARY RUSSIAN I 4 Credit Hours**

An introduction to the Russian language in the context of Russian cultures.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 4 lecture

**Grade Mode:** Standard Letter

**RUSS 12202 ELEMENTARY RUSSIAN II 4 Credit Hours**

A continuation of the introduction to the Russian language in the context of Russian cultures.

**Prerequisite:** RUSS 12201.

**Schedule Type:** Lecture

**Contact Hours:** 4 lecture

**Grade Mode:** Standard Letter

**RUSS 22201 INTERMEDIATE RUSSIAN I 4 Credit Hours**

Continued development of speaking, listening, reading and writing skills using a variety of cultural materials.

**Prerequisite:** RUSS 12202.

**Schedule Type:** Lecture

**Contact Hours:** 4 lecture

**Grade Mode:** Standard Letter

**RUSS 22202 INTERMEDIATE RUSSIAN II 4 Credit Hours**

Continuation of RUSS 22201 in the development of speaking, listening, reading and writing skills using a variety of cultural materials.

**Prerequisite:** RUSS 22201.

**Schedule Type:** Lecture

**Contact Hours:** 4 lecture

**Grade Mode:** Standard Letter

**RUSS 32201 INTENSIVE RUSSIAN GRAMMAR 3 Credit Hours**

A systematic approach to Russian grammar and syntax.

**Prerequisite:** RUSS 22202.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**RUSS 32211 COMPOSITION AND CONVERSATION 3 Credit Hours**

Introduction to advanced oral and written discourse strategies in Russian.

**Prerequisite:** RUSS 22202.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**RUSS 32215 RUSSIAN PHONETICS AND DICTION 3 Credit Hours**

Study of the Russian sound system with special emphasis on pronunciation and intonation. Application of the international phonetic alphabet to Russian.

**Prerequisite:** RUSS 22202.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**RUSS 32231 TRANSLATION PRACTICE: RUSSIAN 1 Credit Hour**

Translation practice with Russian texts using principles and techniques learned in the lecture class.

**Prerequisite:** RUSS 22202.

**Pre/corequisite:** TRST 30230.

**Schedule Type:** Lecture

**Contact Hours:** 1 lecture

**Grade Mode:** Standard Letter

**RUSS 32240 CONVERSATION FOR BUSINESS AND SPECIAL PURPOSES: RUSSIAN 3 Credit Hours**

Introduction to the special vocabulary of business and other special subject areas. Course introduces the concept of language for special purposes and emphasizes the use of special vocabulary in conversations in business and other settings.

**Prerequisite:** RUSS 22202.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**RUSS 32303 MODERN WRITERS (ELR) (WIC) 3 Credit Hours**

Reading and analysis of modern Russian plays and stories.

**Prerequisite:** RUSS 22202.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Experiential Learning Requirement, Writing Intensive Course

**RUSS 32421 RUSSIAN CIVILIZATION (ELR) (WIC) 3 Credit Hours**

A survey of Russian history and intellectual life.

**Prerequisite:** RUSS 32303.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Experiential Learning Requirement, Writing Intensive Course

**RUSS 32501 RUSSIAN LITERATURE IN ENGLISH 3 Credit Hours**

Survey of major authors, movements and works of 19th- and 20th-century Russian literature in English translation. No knowledge of Russian is required.

**Prerequisite:** Sophomore standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**RUSS 42093 VARIABLE TITLE WORKSHOP IN RUSSIAN LANGUAGE AND LITERATURE 1-6 Credit Hours**

(Repeatable for credit) Workshops individually designed to provide instruction and training in specific areas of Russian studies.

**Prerequisite:** Special approval.

**Schedule Type:** Workshop

**Contact Hours:** 1-6 other

**Grade Mode:** Satisfactory/Unsatisfactory

**RUSS 42095 SPECIAL TOPICS IN RUSSIAN LANGUAGE AND LITERATURES 1-4 Credit Hours**

(Repeatable for credit) Topic varies per course offering; to be announced in schedule of classes.

**Prerequisite:** Senior standing.

**Schedule Type:** Lecture

**Contact Hours:** 1-4 lecture

**Grade Mode:** Standard Letter

**RUSS 42096 INDIVIDUAL INVESTIGATION 1-3 Credit Hours**

(Repeatable for credit) Independent investigation of problems in Russian language or literature.

**Prerequisite:** 6 credit hours of upper-division Russian courses (RUSS 30000 and 40000 levels); and special approval of the department chair.

**Schedule Type:** Individual Investigation

**Contact Hours:** 1-3 other

**Grade Mode:** Standard Letter-IP

**RUSS 42211 ADVANCED COMPOSITION AND CONVERSATION 3 Credit Hours**

(Slashed with RUSS 52211) Advanced practice in written and oral expression in Russian.

**Prerequisite:** RUSS 32211.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**RUSS 42230 ADVANCED TRANSLATION PRACTICE: RUSSIAN (ELR) (WIC) 3 Credit Hours**

Theory and practice course that discusses translation theory and emphasizes Russian-to-English translation of selected texts in business, technology, medicine and law.

**Prerequisite:** RUSS 32231.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Experiential Learning Requirement, Writing Intensive Course

**RUSS 42240 BUSINESS AND SPECIAL TEXTS: RUSSIAN 3 Credit Hours**

(Slashed with RUSS 52240) Survey of the typical text types of business in the Russian culture and language. Practice sessions focus on reading and understanding specialized texts and on the translation and composition of selected special texts in Russian.

**Prerequisite:** RUSS 32211.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**RUSS 42351 SURVEY OF RUSSIAN AND SOVIET LITERATURE 4****Credit Hours**

(Slashed with RUSS 52351) Introduces students to the major movements and authors of Russian, Soviet and post-Soviet literature, beginning with Karamzin and ending with Boris Akunin.

**Prerequisite:** 6 credit hours of upper-division Russian courses (RUSS 30000 and 40000 levels) .

**Schedule Type:** Lecture

**Contact Hours:** 4 lecture

**Grade Mode:** Standard Letter

**RUSS 42399 RESEARCH PROJECT IN RUSSIAN LANGUAGE AND LITERATURE (ELR) 3 Credit Hours**

(Repeatable for credit) Thesis or other independent study.

**Prerequisite:** 6 credit hours of 40000-level Russian (RUSS) courses and special approval.

**Schedule Type:** Senior Project/Honors Thesis

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter-IP

**Attributes:** Experiential Learning Requirement

**RUSS 52211 ADVANCED COMPOSITION AND CONVERSATION 3 Credit Hours**

(Slashed with RUSS 42211) Advanced practice in written and oral expression in Russian.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**RUSS 52240 BUSINESS AND SPECIAL TEXTS:RUSSIAN 3 Credit Hours**

(Slashed with RUSS 42240) Survey of the typical text of business in the Russian culture and language. Practice sessions focus on reading and understanding specialized texts and on the translation and composition of selected special texts in Russian.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**RUSS 52351 SURVEY OF RUSSIAN AND SOVIET LITERATURE 4 Credit Hours**

(Slashed with RUSS 42351) Introduces students to the major movements and authors of Russian, Soviet and post-Soviet literature, beginning with Karamzin and ending with Boris Akunin.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 4 lecture

**Grade Mode:** Standard Letter

**RUSS 62010 THE PRACTICE OF RUSSIAN TRANSLATION 2 Credit Hours**

Students apply linguistic and communication science concepts to case studies of language mediation.

**Prerequisite:** Graduate standing.

**Corequisite:** TRST 60010.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**RUSS 62091 SEMINAR 3 Credit Hours**

(Repeatable for credit) Content varies per course offering; topic announced in schedule of classes.

**Prerequisite:** Graduate standing.

**Schedule Type:** Seminar

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**RUSS 62098 RESEARCH 1-15 Credit Hours**

(Repeatable for credit) Research carried out by the student under the supervision of a faculty member. Credits earned applied toward degree requirements if department approves.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Research

**Contact Hours:** 1-15 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**RUSS 62240 LITERARY AND CULTURAL TRANSLATION 3 Credit Hours**

Translation of documents from a variety of literary and cultural sources, including literature, expository and journalistic prose, scholarly treatises and essays. Translation into Russian will also be emphasized.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**RUSS 62250 COMMERCIAL, LEGAL AND DIPLOMATIC TRANSLATION 3 Credit Hours**

An introduction to methods and resources for the translation of commercial, economic, financial, legal, diplomatic and governmental documents.

**Prerequisite:** TRST 60010; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**RUSS 62251 SCIENTIFIC, TECHNICAL AND MEDICAL TRANSLATION 3 Credit Hours**

An introduction to methods and resource for the translation of scientific, technical, industrial and medical documents.

**Prerequisite:** TRST 60010; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**RUSS 62979 CASE STUDY IN TRANSLATION 3 Credit Hours**

Students are responsible for a major translation and a terminology glossary, as well as a critical analysis of the source text, the problems encountered during the translation process and the strategies used to solve them.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Satisfactory/Unsatisfactory

## Spanish (SPAN)

**SPAN 18201 ELEMENTARY SPANISH I 4 Credit Hours**

An introduction to the Spanish language in the context of Hispanic cultures.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 4 lecture

**Grade Mode:** Standard Letter

**SPAN 18202 ELEMENTARY SPANISH II 4 Credit Hours**

A continuation of the introduction to the Spanish language in the context of Hispanic cultures.

**Prerequisite:** SPAN 18201.

**Schedule Type:** Lecture

**Contact Hours:** 4 lecture

**Grade Mode:** Standard Letter

**SPAN 18301 SPANISH FOR HEALTH CARE I 4 Credit Hours**

Introduction to the Spanish language in the context of health care situations, tasks and terminology and Hispanic cultures.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 4 lecture

**Grade Mode:** Standard Letter

**SPAN 18302 SPANISH FOR HEALTH CARE II 4 Credit Hours**

A continuation of the introduction to the Spanish language in the context of health care situations, tasks and terminology and Hispanic cultures.

**Prerequisite:** SPAN 18301.

**Schedule Type:** Lecture

**Contact Hours:** 4 lecture

**Grade Mode:** Standard Letter

**SPAN 28201 INTERMEDIATE SPANISH I 3 Credit Hours**

A continuation of the development of listening, speaking, reading and writing skills using a variety of material on the Spanish language in the context of Hispanic cultures.

**Prerequisite:** SPAN 18202.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** TAG Foreign Language

**SPAN 28202 INTERMEDIATE SPANISH II 3 Credit Hours**

A continuation of the development of listening, speaking, reading and writing skills using a variety of material on the Spanish language in the context of Hispanic cultures and specific areas of study like culture, business, justice, etc. Credit may be given for SPAN 28202 or SPAN 28206 but not for both.

**Prerequisite:** SPAN 28201.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** TAG Foreign Language

**SPAN 28206 SPANISH READING FOR COMPREHENSION 3 Credit Hours**

Further develops skills and techniques for understanding written Spanish; conducted in English. Credit not applicable toward Spanish major or minor. Students may obtain credit in SPAN 28202 or SPAN 28206 but not both.

**Prerequisite:** SPAN 28201.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPAN 38211 SPANISH GRAMMAR AND COMPOSITION 3 Credit Hours**

This course focuses on progressively increasing grammatical competence to communicate in writing through the development of skills to describe, narrate, expose and create arguments on general interest, and academic topics.

**Prerequisite:** SPAN 28202 with a minimum C grade.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPAN 38213 SPANISH READING AND CONVERSATION 3 Credit Hours**

This course will provide continuous opportunities to practice Spanish based on selected non-literary and literary readings (such as poems, essays, short stories, theater, and short novels) and film. The readings and films cover diverse topics, such as art, politics, history, culture, and literature. We will concentrate on building vocabulary, reading skills, speaking and listening skills, reviewing important grammatical structures, and practicing the analysis of literature, culture, and current events.

**Prerequisite:** SPAN 28202 with a minimum C- grade.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPAN 38215 SPANISH PHONETICS AND DICTION 3 Credit Hours**

Study of the modern Spanish language sounds and practical application through extensive interactive listening and speaking activities addressing various Hispanic culture.

**Prerequisite:** SPAN 28202 with a minimum C grade.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPAN 38231 TRANSLATION PRACTICE: SPANISH 1 Credit Hour**

Translation practice with Spanish texts using principles and techniques learned in the lecture class. To be taken concurrently with TRST 30230.

**Corequisite:** TRST 30230.

**Schedule Type:** Lecture

**Contact Hours:** 1 lecture

**Grade Mode:** Standard Letter

**SPAN 38240 CONVERSATION FOR BUSINESS AND SPECIAL PURPOSES: SPANISH 3 Credit Hours**

Introduction to the special vocabulary of business and other special subject areas; introduces the concept of language for special purposes and emphasizes the use of special vocabularies in conversations in business and other settings.

**Prerequisite:** SPAN 38213.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter



**SPAN 38303 MEDICAL SPANISH TRANSLATION AND INTERPRETING**  
**3 Credit Hours**

An introduction to medical translation and interpreting, also known as healthcare translation and interpreting. Sociolinguistic, legal, and pragmatic dimensions of translation, cross-cultural health literacy, intercultural competency, text analysis, common medical text types and basic terminology; text production in English of Spanish medical documents, strategies of research, documentation and transfer. The rudiments of interpreting in health care environments; protocol, ethics, and credentialing in the language mediation industry; public health policy as it affects Latino and Latina populations. Spanish-English, English-Spanish language combination. Note: translation refers to written texts; interpreting to spoken language.

**Prerequisite:** SPAN 28202.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPAN 38330 EARLY SPANISH LITERATURE (ELR) (WIC)**  
**3 Credit Hours**

Outline of development, reading of representative works to 1700.

**Prerequisite:** SPAN 38211.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Experiential Learning Requirement, Writing Intensive Course

**SPAN 38331 RECENT SPANISH LITERATURE (ELR) (WIC)**  
**3 Credit Hours**

Outline of development, reading of representative works 1700 present.

**Prerequisite:** SPAN 38211.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Experiential Learning Requirement, Writing Intensive Course

**SPAN 38334 EARLY SPANISH-AMERICAN LITERATURE (ELR) (WIC)**  
**3 Credit Hours**

Outline of development, reading of representative works including indigenous literature, 1492-1882.

**Prerequisite:** SPAN 38211.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Experiential Learning Requirement, Writing Intensive Course

**SPAN 38335 RECENT SPANISH-AMERICAN LITERATURE (ELR) (WIC)**  
**3 Credit Hours**

Outline of the development of modern Spanish-American literature (1882 to the present). Reading of representative works.

**Prerequisite:** SPAN 38211.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Experiential Learning Requirement, Writing Intensive Course

**SPAN 38421 CIVILIZATION OF SPAIN**  
**3 Credit Hours**

General survey of evolution of Spanish civilization from antiquity to present day.

**Prerequisite:** SPAN 38211.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPAN 38424 CULTURE AND CIVILIZATION OF LATIN AMERICA**  
**3 Credit Hours**

This course focuses on a study of the historical and cultural development of Latin America, with emphasis on Spanish America, as reflected in its geography, history, art, political and social institutions encompassing from Pre-Hispanic times to the present.

**Prerequisite:** SPAN 38211 or SPAN 38213.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPAN 48093 VARIABLE TITLE WORKSHOP IN SPANISH**  
**1-6 Credit Hours**

(Repeatable for credit) Workshops individually designed to provide instruction and training in specific areas of Hispanic studies.

**Prerequisite:** Departmental permission.

**Schedule Type:** Workshop

**Contact Hours:** 1-6 other

**Grade Mode:** Satisfactory/Unsatisfactory

**SPAN 48095 SELECTED TOPICS IN SPANISH**  
**3 Credit Hours**

(Repeatable for a maximum of 9 credit hours) Topic announced in Schedule of Classes.

**Prerequisite:** 9 hours above 20000-level of Spanish courses.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPAN 48096 INDIVIDUAL INVESTIGATION**  
**1-3 Credit Hours**

(Repeatable for a maximum of 6 credit hours) Allows the advanced, serious student to carry out research study project on Spanish literature language or culture. Prior approval of supervising faculty member department required.

**Prerequisite:** Special approval.

**Schedule Type:** Individual Investigation

**Contact Hours:** 1-3 other

**Grade Mode:** Standard Letter-IP

**SPAN 48215 ADVANCED SPANISH COMPOSITION AND CONVERSATION**  
**3 Credit Hours**

Focuses on description, summary, narration, exposition and argumentation on topics dealing with diverse areas of Hispanic culture as presented through literary and non-fiction texts.

**Prerequisite:** SPAN 38211 and SPAN 38213; and one of SPAN 38330 or SPAN 38331 or SPAN 38334 or SPAN 38335; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPAN 48216 CONTEMPORARY HISPANIC CULTURE**  
**3 Credit Hours**

A study of selected sociological, political, cultural or economic issues in the contemporary Hispanic world.

**Prerequisite:** 6 hours from 30000-level Spanish courses.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPAN 48230 ADVANCED TRANSLATION PRACTICE: SPANISH (ELR) (WIC) 3 Credit Hours**

Theory and practice course that discusses translation theory and emphasizes Spanish-to-English translation of selected texts in business, technology, medicine and law.

**Prerequisite:** SPAN 38231.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Experiential Learning Requirement, Writing Intensive Course

**SPAN 48240 BUSINESS AND SPECIAL TEXTS: SPANISH 3 Credit Hours**

Survey of the typical text types of business in the Spanish culture and language. Practice sessions focus on reading and understanding specialized texts and on the translation and composition of selected special texts in Spanish.

**Prerequisite:** SPAN 38211.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPAN 48325 IDENTITY, POLITICS AND GENDER IN PUERTO RICAN FICTION 3 Credit Hours**

(Slashed with SPAN 58325) This course focuses on critical analyses of a diverse corpus of literary pieces written by prominent Puerto Rican authors. It addresses the following topics: the jíbaro identity vis a vis the political and cultural practices of americanización (Americanization), the migratory waves from the countryside to San Juan and the United States, and constructs of gender and LGBTQ identity articulated in the literary discourse.

**Prerequisite:** SPAN 38421 or SPAN 38424.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPAN 48376 CONTEMPORARY SPANISH-AMERICAN SHORT STORY 3 Credit Hours**

The development of the Spanish-American short story from 1917 to the present.

**Prerequisite:** 6 hours from SPAN 38330 and SPAN 38331 and SPAN 38334 and SPAN 38335.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPAN 48378 U.S. LATINA/O WRITERS 3 Credit Hours**

The course focuses on a representative selection of literary pieces in Spanish by recent U.S. Latino writers developing oral and listening skills in Spanish and strengthening critical thinking on various cultural and literary matters.

**Prerequisite:** SPAN 38211 and SPAN 38213; and one of the following: SPAN 38330 or SPAN 38331 or SPAN 38334 or SPAN 38335.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPAN 48422 EARLY SPANISH-AMERICAN DISCOURSE 3 Credit Hours**

This course provides a critical analysis of cultural and literary issues on texts dealing with early colonial Spanish-American expression.

**Prerequisite:** SPAN 38213 and SPAN 38334.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPAN 48491 SEMINAR IN MODERN SPAIN 3 Credit Hours**

(Slashed with SPAN 58491) In-depth study of modern Spain, including themes such as art, literature, film, history, politics, social movements, and other manifestations of modern Spain. Historical and political topics such as the Spanish transition to democracy, the post-transition disillusion, neoliberalism in Spain, Nationalisms of the periphery, and social movements like the 'Indignados' or 15M may be covered. Artistic and cultural movements and genres such as 'La movida Madrileña,' the popular novel, and the detective novel and film noir may also be covered.

**Prerequisite:** Minimum C grade in three SPAN 30000-level (or higher) courses.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPAN 58095 SELECTED TOPICS IN SPANISH 3 Credit Hours**

(Repeatable for a maximum of 15 credit hours) Topic to be announced in semester schedule of classes.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPAN 58216 CONTEMPORARY HISPANIC CULTURE 3 Credit Hours**

A study of selected sociological, political, cultural or economic issues in the contemporary Hispanic world.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPAN 58325 IDENTITY, POLITICS AND GENDER IN PUERTO RICAN FICTION 3 Credit Hours**

(Slashed with SPAN 48325) This course focuses on critical analyses of a diverse corpus of literary pieces written by prominent Puerto Rican authors. It addresses the following topics: the jíbaro identity vis a vis the political and cultural practices of americanización (Americanization), the migratory waves from the countryside to San Juan and the United States, and constructs of gender and LGBTQ identity articulated in the literary discourse.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPAN 58376 CONTEMPORARY SPANISH-AMERICAN SHORT STORY 3 Credit Hours**

The development of the Spanish-American short story from 1917 to the present.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPAN 58378 U.S. LATINA/O WRITERS 3 Credit Hours**

The course focuses on a representative selection of literary pieces in Spanish by recent U.S. Latino writers developing oral and listening skills in Spanish and strengthening critical thinking on various cultural and literary matters.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPAN 58422 EARLY SPANISH-AMERICAN DISCOURSE 3 Credit Hours**

This course provides a critical analysis of cultural and literary issues on texts dealing with early colonial Spanish-American expression.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPAN 58491 SEMINAR IN MODERN SPAIN 3 Credit Hours**

(Slashed with SPAN 48491) In-depth study of late 20th and early 21st-century Spain, including themes such as art, literature, film, history, politics, social movements, and other manifestations of contemporary Spain. Historical and political topics such as the Spanish transition to democracy, the post-transition disillusion, neoliberalism in Spain, Nationalisms of the periphery, and social movements like the 'Indignados' or 15M may be covered. Artistic and cultural movements and genres such as 'La movida Madrileña', the popular novel, and the detective novel and film noir may also be covered.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPAN 68010 THE PRACTICE OF SPANISH TRANSLATION 2 Credit Hours**

Students apply linguistic and communication science concepts to case studies of language mediation.

**Prerequisite:** Graduate standing.

**Corequisite:** TRST 60010.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**SPAN 68093 VARIABLE TITLE WORKSHOP IN SPANISH 1-6 Credit Hours**

(Repeatable for credit) Workshops individually designed to provide instruction and training in specific areas of Spanish studies. S/U graded.

**Prerequisite:** Permission.

**Schedule Type:** Workshop

**Contact Hours:** 1-6 other

**Grade Mode:** Satisfactory/Unsatisfactory

**SPAN 68095 SELECTED TOPICS 3 Credit Hours**

(Repeatable for credit) Selected topics on Spanish literature or linguistics.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPAN 68098 RESEARCH 1-15 Credit Hours**

(Repeatable for credit) Research or individual investigation for master's level graduate students. Credits earned applied toward degree requirements if department approves.

**Prerequisite:** Special approval.

**Schedule Type:** Research

**Contact Hours:** 1-15 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**SPAN 68191 SEMINAR IN FICTION 3 Credit Hours**

(Repeatable for credit) Intensive study of one or two major writers or of a movement in the history of Spanish and Spanish-American fiction.

**Prerequisite:** Graduate standing.

**Schedule Type:** Seminar

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**SPAN 68199 THESIS I 2-6 Credit Hours**

Thesis students must register for a total of 6 hours, 2 to 6 hours in a single semester distributed over several semesters if desired.

**Prerequisite:** Graduate standing.

**Schedule Type:** Masters Thesis

**Contact Hours:** 2-6 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**SPAN 68215 ADVANCED SPANISH COMPOSITION AND CONVERSATION 3 Credit Hours**

Focuses on description, summary, narration, exposition and argumentation on topics dealing with diverse areas of Hispanic culture as presented through literary and non-fiction texts.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPAN 68231 TRANSLATION INTO SPANISH 3 Credit Hours**

Provides advanced intensive practice in the translation of a variety of texts into Spanish. Translation issues and appropriate strategies are identified. Also provides practice in the evaluation of translations, the identification of professional issues, and an advanced review of linguistic and grammatical aspects of Spanish as they apply to translation. Class meetings are conducted in a workshop format based on weekly assignments of readings and translation exercises.

**Prerequisite:** TRST 60010 and SPAN 68010; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPAN 68240 LITERARY AND CULTURAL TRANSLATION 3 Credit Hours**

Translating documents from a variety of literary and cultural sources, including literature, expository and journalistic prose, scholarly treatises and essays. Translation into Spanish will also be emphasized.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPAN 68250 COMMERCIAL, LEGAL AND DIPLOMATIC TRANSLATION 3 Credit Hours**

An introduction to methods and resources for the translation of commercial, economic financial legal diplomatic and governmental documents.

**Prerequisite:** TRST 60010; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPAN 68251 SCIENTIFIC, TECHNICAL AND MEDICAL TRANSLATION 3 Credit Hours**

An introduction to methods and resources for the translation of scientific, technical, industrial and medical documents.

**Prerequisite:** TRST 60010; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPAN 68299 THESIS II 2 Credit Hours**

Thesis students must continue registration each semester until all degree requirements are met.

**Prerequisite:** SPAN 68199; and graduate standing.

**Schedule Type:** Masters Thesis

**Contact Hours:** 2 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**SPAN 68391 SEMINAR IN THEATRE 3 Credit Hours**

(Repeatable for credit)Intensive study of one or two major dramatists or movements in the history of Spanish and Spanish-American theatre.

**Prerequisite:** Graduate standing.

**Schedule Type:** Seminar

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**SPAN 68591 SEMINAR IN POETRY 3 Credit Hours**

(Repeatable for credit)Intensive study of one or two major poets or of a movement in the history of Spanish and Spanish-American poetry.

**Prerequisite:** Graduate standing.

**Schedule Type:** Seminar

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**SPAN 68979 CASE STUDY IN TRANSLATION 3 Credit Hours**

Students will be responsible for a major translation and a terminology glossary as well as a critical analysis of the source text, the problems encountered during the translation process and the strategies used to solve them.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Satisfactory/Unsatisfactory

## Translation Studies (TRST)

**TRST 20009 MULTILINGUAL INFORMATION LIFECYCLE 3 Credit Hours**

Introduction to the multilingual information cycle, including general technological issues, text preparation, translation in markup languages, computer-assisted translation tools and multilingual information flow for multilingual and multicultural work. Course is taught in English.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**TRST 30230 APPROACHES TO TRANSLATION 3 Credit Hours**

Introduction to foreign language translation. Introduces concepts, resources, principles and techniques of text analysis and translation strategies applicable to various types of texts.

**Prerequisite:** Junior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**TRST 30330 CROSS-LANGUAGE MEDIATION 3 Credit Hours**

An exploration of textual and contextual factors impacting cross-language mediation.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**TRST 50031 PROFESSIONAL EDITING FOR TRANSLATORS 3 Credit Hours**

Provides practical instruction in the editing of translated texts representing a variety of text types. Course covers the skills and techniques that are required for all stages of the editing process and using the best practices of professional translation. Topics include the stages of editing, from rough translation to finished draft; electronic tools for multilingual translation editing; translation style guides; and pre- and post-editing of machine translation. Interactive lecture and workshop formats.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**TRST 60001 GRADUATE RESEARCH AND WRITING IN TRANSLATION STUDIES 3 Credit Hours**

Individual instruction and assistance with problems encountered in academic research and writing in translation.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**TRST 60009 DOCUMENTS IN MULTILINGUAL CONTEXTS 2 Credit Hours**

An in-depth study of the role of documents in the multilingual information cycle as manifested in word-processing, desktop publishing and web-based environment.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**TRST 60010 THEORY OF TRANSLATION AND INTERPRETING 2 Credit Hours**

Introduction to the theoretical bases and methods of language mediation.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**TRST 60011 TERMINOLOGY AND COMPUTER APPLICATIONS IN TRANSLATION 3 Credit Hours**

Practice-oriented introduction to terminology management and translation tools, such as term extraction, translation memory and machine translation.

**Prerequisite:** TRST 60009; and graduate standing.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**TRST 60012 SOFTWARE LOCALIZATION 3 Credit Hours**

Introduction to localization, the translation and adaptation of products, including software and web pages for sale or dissemination in specific target-language markets. Course introduces the basic concepts and techniques of localization and provides a hands-on introduction to relevant computer software.

**Prerequisite:** TRST 60011 with a minimum B grade; and graduate standing.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**TRST 60013 LANGUAGE PROJECT MANAGEMENT 3 Credit Hours**

Introduction to project management in the language industry. Course covers the body of knowledge and skills, including the use of project management software that is required to perform the duties of a translation or localization project manager. Beginning with an overview of the language industry, the course examines the language industry project.

**Prerequisite:** TRST 60011 with a minimum B grade; and graduate standing.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**TRST 60031 INTERCULTURAL COMMUNICATION IN THE LANGUAGE INDUSTRY 3 Credit Hours**

The role and impact of intercultural communication models, theories and approaches in shaping language industry dynamics.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**TRST 60095 SPECIAL TOPICS IN TRANSLATIONS STUDIES 1-3 Credit Hours**

(Repeatable for a maximum of 12 credit hours) Content varies with the topic, which may include any aspect of translation studies (practical or theoretical). Topics are taught in English and some topics may be team taught.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 1-3 lecture

**Grade Mode:** Standard Letter

**TRST 60098 RESEARCH IN TRANSLATION STUDIES 1-15 Credit Hours**

(Repeatable for a maximum of 15 credit hours) Research for students in the master's degree in translation. Credits earned may be applied toward degree with department approval.

**Prerequisite:** Graduate standing.

**Schedule Type:** Research

**Contact Hours:** 1-15 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**TRST 60298 APPLIED TRANSLATION RESEARCH 1-3 Credit Hours**

(Repeatable for a maximum of 3 credit hours) Research experience in translation or interpreting in a corporate, translation bureau or freelance setting, supervised by a faculty member.

**Prerequisite:** TRST 60010; and graduate standing.

**Schedule Type:** Research

**Contact Hours:** 1-3 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**TRST 70001 APPLIED LINGUISTICS AND TRANSLATION INFORMATICS 3 Credit Hours**

Advanced topics in applied linguistics, including corpus and text linguistics as they apply to translation. Advanced topics in translation informatics in multilingual environments.

**Prerequisite:** TRST 60011; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**TRST 70002 THE LANGUAGE INDUSTRY 3 Credit Hours**

Study of the socio-economic context of professional translation and the language services business sector. Includes in-depth study of the language industry drawing on industry analysis and business case studies.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**TRST 70003 TERMINOLOGY STUDIES 3 Credit Hours**

Advanced topics in terminology, lexicography, ontology and knowledge organization systems.

**Prerequisite:** TRST 60011; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**TRST 70004 TRANSLATION PEDAGOGY 3 Credit Hours**

Teaching methods and curriculum design for translation programs.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**TRST 70005 CURRENT TRENDS IN TRANSLATION STUDIES 3 Credit Hours**

A critical examination of the main trends in translation theory and an exploration of emerging developments in translation studies.

**Prerequisite:** TRST 60010; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**TRST 70006 EMPIRICAL METHODS FOR TRANSLATION STUDIES 3 Credit Hours**

Study of the methods and research designs used to conduct empirical research in translation, with an emphasis on experimental design of cross-language tasks; the use and analysis of bilingual verbal protocols; the application of new methods, such as keystroke-logging and eye-tracking; and the particular empirical and methodological issues involved in cross-language research data-gathering and statistical analysis.

**Prerequisite:** Translation studies major; and doctoral standing.

**Schedule Type:** Seminar

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**TRST 70007 CORPORA IN TRANSLATION 3 Credit Hours**

Exploration of corpus-based applications in translation studies research and the practice of translation. Competence in utilizing translation-oriented corpus-based tools and corpus building will be fostered.

**Prerequisite:** Translation studies major; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter



**TRST 70008 TRANSLATION AND COGNITION 3 Credit Hours**

Study of foreign language translation and interpreting from a cognitive science perspective. Includes discussion of current empirical research; application of selected models of cognition to problems in translation studies; and research design in translation process research.

**Prerequisite:** Translation studies major; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**TRST 80091 SEMINAR IN TRANSLATION STUDIES 3 Credit Hours**

(Repeatable for credit) Seminar for doctoral students to present and discuss research related to specific areas of translation studies. May be taken for a total of 6 credit hours, either alone or in combination with TRST 80191.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Seminar

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**TRST 80098 RESEARCH IN TRANSLATION STUDIES 1-15 Credit Hours**

(Repeatable for credit) Research for doctoral students. Credits earned may be applied toward degree with department approval.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Research

**Contact Hours:** 1-15 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**TRST 80191 SEMINAR IN TRANSLATION INFORMATICS 3 Credit Hours**

(Repeatable for credit) Seminar for doctoral students to present and discuss research related to specific areas of translation informatics. May be taken for a total of 6 credit hours, either alone or in combination with TRST 80191.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Seminar

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**TRST 80199 DISSERTATION I 15 Credit Hours**

(Repeatable for credit) Doctoral dissertation. Registration in at least two semesters is required the first of which will be the semester in which dissertation work begins and continuing until 30 hours are completed.

**Prerequisite:** Doctoral standing; and special approval.

**Schedule Type:** Dissertation

**Contact Hours:** 15 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**TRST 80299 DISSERTATION II 15 Credit Hours**

(Repeatable for credit) Continuing registration required of doctoral students who have completed the initial 30 hours of dissertation, continuing until all degree requirements are met.

**Prerequisite:** TRST 80199; and doctoral standing.

**Schedule Type:** Dissertation

**Contact Hours:** 15 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

## American Sign Language - B.A.

### College of Arts and Sciences

Department of Modern and Classical Language Studies

109 Satterfield Hall

Kent Campus

330-672-2150

MCLS@kent.edu

www.kent.edu/mcls

## Description

The Bachelor of Arts degree in American Sign Language presents American sign language as a culture- and community-based language that interacts with other world languages. Through techniques—including immersion and bilingual-bicultural comparison classes, community interaction, research, lab activities and use of digital video technology—students gain documented proficiency in American sign language, validity within the deaf community and networking within the professional community.

### Fully Offered At:

- Kent Campus

## Accreditation

The B.A. degree in American Sign Language is accredited by the American Council on the Teaching of Foreign Languages (ACTFL) and the National Council for the Accreditation of Teacher Education (NCATE).

## Admission Requirements

The university affirmatively strives to provide educational opportunities and access to students with varied backgrounds, those with special talents and adult students who graduated from high school three or more years ago.

**Freshman Students on the Kent Campus:** The freshman admission policy on the Kent Campus is selective. Admission decisions are based upon the following: cumulative grade point average, ACT and/or SAT scores, strength of high school college preparatory curriculum and grade trends. The Admissions Office at the Kent Campus may defer the admission of students who do not meet admissions criteria but who demonstrate areas of promise for successful college study. Deferred applicants may begin their college coursework at one of seven regional campuses of Kent State University. For more information on admissions, including additional requirements for some academic programs, visit the admissions website for new freshmen.

**Freshman Students on the Regional Campuses:** Kent State campuses at Ashtabula, East Liverpool, Geauga, Salem, Stark, Trumbull and Tuscarawas, as well as the Regional Academic Center in Twinsburg, have open enrollment admission for students who hold a high school diploma, GED or equivalent.

### English Language Proficiency Requirements for International Students:

All international students must provide proof of English language proficiency (unless they meet specific exceptions) by earning a minimum 525 TOEFL score (71 on the Internet-based version), minimum 75 MELAB score, minimum 6.0 IELTS score or minimum 48 PTE score, or by completing the ESL level 112 Intensive Program. For more information on international admission, visit the Office of Global Education's admission website.

**Transfer, Transitioning and Former Students:** For more information about admission criteria for transfer, transitioning and former students, please visit the admissions website.

## University Requirements

All students in a bachelor's degree program at Kent State University must complete the following university requirements for graduation.

**NOTE:** University requirements may be fulfilled in this program by specific course requirements. Please see Program Requirements for details.

Destination Kent State: First Year Experience	1
Course is not required for students with 25 transfer credits, excluding College Credit Plus, or age 21+ at time of admission.	
Diversity Domestic/Global (DIVD/DIVG)	2 courses
Students must successfully complete one domestic and one global course, of which one must be from the Kent Core.	
Experiential Learning Requirement (ELR)	varies
Students must successfully complete one course or approved experience.	
Kent Core (see table below)	36-37
Writing-Intensive Course (WIC)	1 course
Students must earn a minimum C grade in the course.	
Upper-Division Requirement	39 (or 42)
Students must successfully complete 39 upper-division (numbered 30000 to 49999) credit hours to graduate. Students in a B.A. and/or B.S. degree in the College of Arts and Sciences must complete 42 upper-division credit hours.	
Total Credit Hour Requirement	120
Some bachelor's degrees require students to complete more than 120 credit hours.	

## Kent Core Requirements

Kent Core Composition (KCOMP)	6
Kent Core Mathematics and Critical Reasoning (KMCR)	3
Kent Core Humanities and Fine Arts (KHUM/KFA) (min one course each)	9
Kent Core Social Sciences (KSS) (must be from two disciplines)	6
Kent Core Basic Sciences (KBS/KLAB) (must include one laboratory)	6-7
Kent Core Additional (KADL)	6
<b>Total Credit Hours:</b>	<b>36-37</b>

## Program Requirements

### Major Requirements

Code	Title	Credit Hours
<b>Prerequisite Requirements</b> <sup>1</sup>		
ASL 19201	ELEMENTARY AMERICAN SIGN LANGUAGE I	
ASL 19202	ELEMENTARY AMERICAN SIGN LANGUAGE II	
ASL 29201	INTERMEDIATE AMERICAN SIGN LANGUAGE I	
ASL 29202	INTERMEDIATE AMERICAN SIGN LANGUAGE II	
<b>Major Requirements (courses count in major GPA)</b>		
ASL 19401	EXPLORATION OF DEAF CULTURE	3
ASL 39201	ADVANCED AMERICAN SIGN LANGUAGE I	3
ASL 39202	ADVANCED AMERICAN SIGN LANGUAGE II	3
ASL 39223	SOCIOLINGUISTICS OF THE DEAF COMMUNITY (WIC) <sup>2</sup>	3
or ASL 49309	INTRODUCTION TO DEAF STUDIES (ELR) (WIC)	
ASL 49108	AMERICAN SIGN LANGUAGE LINGUISTICS I	3
ASL 49201	ADVANCED PROFICIENCY	3

American Sign Language Electives		6
ASL 29212	APPLIED AMERICAN SIGN LANGUAGE GRAMMAR	
or ASL 29213	FINGERSPELLING, NUMBERS AND DEPICTION	
ASL 39095	SPECIAL TOPICS IN AMERICAN SIGN LANGUAGE	
ASL 39223	SOCIOLINGUISTICS OF THE DEAF COMMUNITY (WIC) <sup>2</sup>	
ASL 49091	SEMINAR IN AMERICAN SIGN LANGUAGE LINGUISTICS	
ASL 49092	PRACTICUM IN AMERICAN SIGN LANGUAGE (ELR)	
ASL 49109	AMERICAN SIGN LANGUAGE LINGUISTICS II	
ASL 49309	INTRODUCTION TO DEAF STUDIES (ELR) (WIC) <sup>2</sup>	
ASL 49350	AMERICAN SIGN LANGUAGE LITERATURE	
ASL 49401	DEAF CULTURE AND COMMUNITY	
ASL 49601	ACTIVITY DESIGN, IMPLEMENTATION AND EVALUATION	
Major Electives, choose from the following:		9
ANTH 48214	POLITICS OF CULTURE (ELR) (WIC) <sup>2</sup>	
ASL 39095	SPECIAL TOPICS IN AMERICAN SIGN LANGUAGE	
ASL 39223	SOCIOLINGUISTICS OF THE DEAF COMMUNITY (WIC) <sup>2</sup>	
ASL 49091	SEMINAR IN AMERICAN SIGN LANGUAGE LINGUISTICS	
ASL 49092	PRACTICUM IN AMERICAN SIGN LANGUAGE (ELR)	
ASL 49109	AMERICAN SIGN LANGUAGE LINGUISTICS II	
ASL 49309	INTRODUCTION TO DEAF STUDIES (ELR) (WIC) <sup>2</sup>	
ASL 49350	AMERICAN SIGN LANGUAGE LITERATURE	
ASL 49401	DEAF CULTURE AND COMMUNITY	
ASL 49601	ACTIVITY DESIGN, IMPLEMENTATION AND EVALUATION	
MCLS 30420	FOREIGN LANGUAGES AND CULTURE STUDIES	
SOC 32570	INEQUALITY IN SOCIETIES (DIVD)	
<b>Additional Requirements (courses do not count in major GPA)</b>		
UC 10097	DESTINATION KENT STATE: FIRST YEAR EXPERIENCE	1
Kent Core Composition		6
Kent Core Mathematics and Critical Reasoning		3
Kent Core Humanities and Fine Arts (minimum one course from each)		9
Kent Core Social Sciences (must be from two disciplines)		6
Kent Core Basic Sciences (must include one laboratory)		6
Kent Core Additional		6
College General Requirements (must be from Kent Core Basic Sciences) <sup>3</sup>		3
College General Requirements (must be from Kent Core Social Sciences) <sup>4</sup>		3
General Electives (total credit hours depends on earning 120 credit hours, including 42 upper-division credit hours)		44
Minimum Total Credit Hours:		120

<sup>1</sup> Students with previous study in American sign language study should take the American Sign Language Placement Test and enroll in the correct course based on their score. Students who must enroll in any of prerequisite course based on their placement test score will earn general elective credit hours toward the degree.

- <sup>2</sup> A minimum C grade must be earned to fulfill the writing-intensive requirement.
- <sup>3</sup> One additional course taken from the Kent Core Basic Science courses in the following Arts and Sciences disciplines: Anthropology (ANTH), Biological Sciences (BSCI), Chemistry (CHEM), Geography (GEOG), Geology (GEOL) or Physics (PHY). The course may not be from the student's major.
- <sup>4</sup> One additional course taken from the Kent Core Social Sciences courses in the following Arts and Sciences disciplines: Anthropology (ANTH), Geography (GEOG), Criminology and Justice Studies (CRIM), Peace and Conflict Studies (PACS), Political Science (POL), Psychology (PSYC) or Sociology (SOC). The course may not be from the student's major.

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## Graduation Requirements

Minimum Major GPA	Minimum Overall GPA
2.000	2.000

- To earn the degree, students must successfully:
  - Complete community service projects in ASL 29202, ASL 39201 and ASL 39202
  - Show documentation of a proficiency level of Intermediate or above on the Sign Language Proficiency Interview (administered off-site)
  - Successfully complete the capstone project in ASL 49201.
- **Program Note**
  - Some courses in the Department of Modern and Classical Language Studies are offered on a rotating basis, and course availability may change at any time. Visit the department's website for course offering projections and advising with course planning.

## Roadmap

This roadmap is a recommended semester-by-semester plan of study for this major. However, courses designated as critical (!) must be completed in the semester listed to ensure a timely graduation.

Course	Title	Credits
<b>Semester One</b>		
ASL 19401	EXPLORATION OF DEAF CULTURE	3
UC 10097	DESTINATION KENT STATE: FIRST YEAR EXPERIENCE	1
	Kent Core Requirement	3
	Kent Core Requirement	3
	Kent Core Requirement	3
!	Prerequisite or General Elective	3
Credit Hours		16
<b>Semester Two</b>		
	Kent Core Requirement	3
	Kent Core Requirement	3
	Kent Core Requirement	3
	Kent Core Requirement	3
!	Prerequisite or General Elective	3
Credit Hours		15
<b>Semester Three</b>		
!	ASL 39201 ADVANCED AMERICAN SIGN LANGUAGE I	3
	Kent Core Requirement	3
	Kent Core Requirement	3
	Kent Core Requirement	3
	Kent Core Requirement	3
Credit Hours		15
<b>Semester Four</b>		
!	ASL 39202 ADVANCED AMERICAN SIGN LANGUAGE II	3
	Kent Core Requirement	3
	College General Requirements	3
	College General Requirements	3
	General Elective	3
Credit Hours		15
<b>Semester Five</b>		
!	ASL 49108 AMERICAN SIGN LANGUAGE LINGUISTICS I	3
	Major or American Sign Language Elective	6
	General Electives	6
Credit Hours		15
<b>Semester Six</b>		
	Major or American Sign Language Electives	6
	General Electives	8
Credit Hours		14
<b>Semester Seven</b>		
	ASL 39223 SOCIOLINGUISTICS OF THE DEAF COMMUNITY or (WIC)	3
	ASL 49309 or INTRODUCTION TO DEAF STUDIES (ELR) (WIC)	
!	ASL 49201 ADVANCED PROFICIENCY	3
	Major or American Sign Language Electives	3
	General Electives	6
Credit Hours		15

### Semester Eight

General Electives	15
Credit Hours	15
Minimum Total Credit Hours:	120

## American Sign Language - Minor

### College of Arts and Sciences

Department of Modern and Classical Language Studies

109 Satterfield Hall

Kent Campus

330-672-2150

mcls@kent.edu

www.kent.edu/mcls

## Description

This American Sign Language minor provides students with opportunities to develop foundational receptive and expressive skills in American Sign Language, and introduces students to the study of Deaf culture.

### Fully Offered At:

- Kent Campus

## Admission Requirements

Admission to a minor is open to students declared in a bachelor's degree, the A.A.B. or A.A.S. degree or the A.T.S. degree (not Individualized Program major). Students declared only in the A.A. or A.S. degree or the A.T.S. degree in Individualized Program may not declare a minor. Students may not pursue a minor and a major in the same discipline.

## Minor Requirements

Code	Title	Credit Hours
<b>Prerequisite Requirements <sup>1</sup></b>		
ASL 19201	ELEMENTARY AMERICAN SIGN LANGUAGE I	
ASL 19202	ELEMENTARY AMERICAN SIGN LANGUAGE II	
ASL 29201	INTERMEDIATE AMERICAN SIGN LANGUAGE I	
ASL 29202	INTERMEDIATE AMERICAN SIGN LANGUAGE II	
<b>Minor Requirements</b>		
ASL 19401	EXPLORATION OF DEAF CULTURE	3
ASL 39201	ADVANCED AMERICAN SIGN LANGUAGE I	3
ASL 39202	ADVANCED AMERICAN SIGN LANGUAGE II	3
ASL 49108	AMERICAN SIGN LANGUAGE LINGUISTICS I	3
Minor Electives, choose from the following:		9
ASL 39095	SPECIAL TOPICS IN AMERICAN SIGN LANGUAGE	
ASL 39223	SOCIOLINGUISTICS OF THE DEAF COMMUNITY (WIC)	
ASL 49091	SEMINAR IN AMERICAN SIGN LANGUAGE LINGUISTICS	
ASL 49109	AMERICAN SIGN LANGUAGE LINGUISTICS II	
ASL 49201	ADVANCED PROFICIENCY	
ASL 49309	INTRODUCTION TO DEAF STUDIES (ELR) (WIC)	
ASL 49350	AMERICAN SIGN LANGUAGE LITERATURE	
ASL 49401	DEAF CULTURE AND COMMUNITY	

Minimum Total Credit Hours:

21

<sup>1</sup> Prerequisites may be satisfied with demonstrated language proficiency.

## Graduation Requirements

Minimum Minor GPA	Minimum Overall GPA
2.000	2.000

- Students must complete at least two upper-division (30000 or 40000 level) courses in the minor at Kent State on a graded basis (A-F).
- Minimum 6 credit hours in the minor must be upper-division coursework (30000 and 40000 level).
- Minimum 6 credit hours in the minor must be outside of the course requirements for any major or other minor the student is pursuing.
- Minimum 50 percent of the total credit hours for the minor must be taken at Kent State (in residence).

## Program Note

- Some courses in the Department of Modern and Classical Language Studies are offered on a rotating basis, and course availability may change at any time. Visit the department's website for course offering projections and advising with course planning.

## Arabic - Minor

### College of Arts and Sciences

Department of Modern and Classical Language Studies

109 Satterfield Hall

Kent Campus

330-672-2150

mcls@kent.edu

www.kent.edu/mcls

## Description

The Arabic minor is designed to develop the four Arabic language skills: listening, speaking, reading and writing. The minor trains students how to read, interpret and contextualize texts at various levels. Emphasis is placed on oral communication and the reading of texts of different genres. Students are introduced to Arabic history and culture, including famous writers and historical figures. Students are also expected to engage in authentic texts and write short papers.

## Fully Offered At:

- Kent Campus

## Admission Requirements

Admission to a minor is open to students declared in a bachelor's degree, the A.A.B. or A.A.S. degree or the A.T.S. degree (not Individualized Program major). Students declared only in the A.A. or A.S. degree or the A.T.S. degree in Individualized Program may not declare a minor. Students may not pursue a minor and a major in the same discipline.

## Program Learning Outcomes

Graduates of this program will be able to:

- Communicate orally in modern standard Arabic.
- Interact with native speakers of Arabic effectively in a daily environment.

## Minor Requirements

Code	Title	Credit Hours
<b>Prerequisite Requirements <sup>1</sup></b>		
ARAB 11101	ELEMENTARY ARABIC I	
ARAB 11102	ELEMENTARY ARABIC II	
ARAB 21201	INTERMEDIATE ARABIC I	
ARAB 21202	INTERMEDIATE ARABIC II	
<b>Minor Requirements</b>		
ARAB 31301	ADVANCED INTERMEDIATE ARABIC I	3
ARAB 31302	ADVANCED INTERMEDIATE ARABIC II	3
ARAB 41201	ADVANCED ARABIC I	3
ARAB 41202	ADVANCED ARABIC II	3
Minor Electives, choose from the following:		6
ARAB 30095	SPECIAL TOPICS IN ARABIC CULTURE AND LANGUAGE	
ARAB 41301	ARABIC CULTURE	
ARAB 41302	BUSINESS ARABIC	
GEOG 37045	GEOGRAPHY OF THE MIDDLE EAST	
HIST 31126	HISTORY OF THE MIDDLE EAST	
POL 30560	MIDDLE EAST POLITICS (DIVG)	

Minimum Total Credit Hours:

18

<sup>1</sup> Prerequisites may be satisfied with demonstrated language proficiency.

## Graduation Requirements

Minimum Minor GPA	Minimum Overall GPA
2.000	2.000

- Students must complete at least two upper-division (30000 or 40000 level) courses in the minor at Kent State on a graded basis (A-F).
- Minimum 6 credit hours in the minor must be upper-division coursework (30000 and 40000 level).
- Minimum 6 credit hours in the minor must be outside of the course requirements for any major or other minor the student is pursuing.
- Minimum 50 percent of the total credit hours for the minor must be taken at Kent State (in residence).

## Program Notes

- Students are strongly encouraged to participate in short-term, semester-long or year-long study programs in an Arabic-speaking country. All efforts will be made to grant appropriate credit for approved courses taken at a university in an Arabic-speaking country.
- Some courses in the Department of Modern and Classical Language Studies are offered on a rotating basis, and course availability may change at any time. Visit the department's website for course offering projections and advising with course planning.

## Business French - Minor

College of Arts and Sciences



Department of Modern and Classical Language Studies  
109 Satterfield Hall  
Kent Campus  
330-672-2150  
mcls@kent.edu  
www.kent.edu/mcls

## Description

The Business French minor offers core courses in language, culture and conversation/texts for business purposes. The minor is especially well-suited as a combination with a business or marketing major.

### Fully Offered At:

- Kent Campus

## Admission Requirements

Admission to a minor is open to students declared in a bachelor's degree, the A.A.B. or A.A.S. degree or the A.T.S. degree (not Individualized Program major). Students declared only in the A.A. or A.S. degree or the A.T.S. degree in Individualized Program may not declare a minor. Students may not pursue a minor and a major in the same discipline.

## Minor Requirements

Code	Title	Credit Hours
<b>Prerequisite Requirements</b> <sup>1</sup>		
FR 13201	ELEMENTARY FRENCH I	
FR 13202	ELEMENTARY FRENCH II	
FR 23201	INTERMEDIATE FRENCH I	
FR 23202	INTERMEDIATE FRENCH II	
<b>Minor Requirements</b>		
FR 33211	FRENCH CONVERSATION	3
FR 33212	FRENCH COMPOSITION	3
FR 33214	FRENCH COMPOSITION EXTENDED	2
FR 33215	FRENCH PHONETICS AND DICTION	3
FR 33240	CONVERSATION FOR BUSINESS AND SPECIAL PURPOSES: FRENCH	3
FR 33421	FRENCH CIVILIZATION	3
FR 43240	BUSINESS AND SPECIAL TEXTS:FRENCH (ELR)	3
MCLS 30420	FOREIGN LANGUAGES AND CULTURE STUDIES	3
Minimum Total Credit Hours:		23

<sup>1</sup> Prerequisites may be satisfied with demonstrated language proficiency.

## Graduation Requirements

Minimum Minor GPA	Minimum Overall GPA
2.000	2.000

- Students must complete at least two upper-division (30000 or 40000 level) courses in the minor at Kent State on a graded basis (A-F).
- Minimum 6 credit hours in the minor must be upper-division coursework (30000 and 40000 level).

- Minimum 6 credit hours in the minor must be outside of the course requirements for any major or other minor the student is pursuing.
- Minimum 50 percent of the total credit hours for the minor must be taken at Kent State (in residence).

## Program Note

- Some courses in the Department of Modern and Classical Language Studies are offered on a rotating basis, and course availability may change at any time. Visit the department's website for course offering projections and advising with course planning.

## Business German - Minor

### College of Arts and Sciences

Department of Modern and Classical Language Studies  
109 Satterfield Hall  
Kent Campus  
330-672-2150  
mcls@kent.edu  
www.kent.edu/mcls

## Description

The Business German minor offers core courses in language, culture and conversation/texts for business purposes. The minor especially well-suited as a combination with a business or marketing major.

### Fully Offered At:

- Kent Campus

## Admission Requirements

Admission to a minor is open to students declared in a bachelor's degree, the A.A.B. or A.A.S. degree or the A.T.S. degree (not Individualized Program major). Students declared only in the A.A. or A.S. degree or the A.T.S. degree in Individualized Program may not declare a minor. Students may not pursue a minor and a major in the same discipline.

## Minor Requirements

Code	Title	Credit Hours
<b>Prerequisite Requirements</b> <sup>1</sup>		
GER 11201	ELEMENTARY GERMAN I	
GER 11202	ELEMENTARY GERMAN II	
GER 21201	INTERMEDIATE GERMAN I	
GER 21202	INTERMEDIATE GERMAN II	
<b>Minor Requirements</b>		
GER 31201	INTENSIVE GERMAN GRAMMAR	3
GER 31211	GERMAN COMPOSITION AND CONVERSATION	3
GER 31215	GERMAN PHONETICS AND DICTION	3
GER 31240	CONVERSATION FOR BUSINESS AND SPECIAL PURPOSES: GERMAN	3
GER 31421	GERMAN CIVILIZATION	3
GER 41240	BUSINESS AND SPECIAL TEXTS: GERMAN	3
MCLS 30420	FOREIGN LANGUAGES AND CULTURE STUDIES	3
Minimum Total Credit Hours:		21

<sup>1</sup> Prerequisites may be satisfied with demonstrated language proficiency.

## Graduation Requirements

Minimum Minor GPA	Minimum Overall GPA
2.000	2.000

- Students must complete at least two upper-division (30000 or 40000 level) courses in the minor at Kent State on a graded basis (A-F).
- Minimum 6 credit hours in the minor must be upper-division coursework (30000 and 40000 level).
- Minimum 6 credit hours in the minor must be outside of the course requirements for any major or other minor the student is pursuing.
- Minimum 50 percent of the total credit hours for the minor must be taken at Kent State (in residence).

### Program Note

- Some courses in the Department of Modern and Classical Language Studies are offered on a rotating basis, and course availability may change at any time. Visit the department's website for course offering projections and advising with course planning.

## Business Russian - Minor

### College of Arts and Sciences

Department of Modern and Classical Language Studies  
109 Satterfield Hall  
Kent Campus  
330-672-2150  
mcls@kent.edu  
www.kent.edu/mcls

## Description

The Business Russian minor offers core courses in language, culture and conversation/texts for business purposes. The minor is especially well-suited as a combination with a business or marketing major.

### Fully Offered At:

- Kent Campus

## Admission Requirements

Admission to a minor is open to students declared in a bachelor's degree, the A.A.B. or A.A.S. degree or the A.T.S. degree (not Individualized Program major). Students declared only in the A.A. or A.S. degree or the A.T.S. degree in Individualized Program may not declare a minor. Students may not pursue a minor and a major in the same discipline.

## Minor Requirements

Code	Title	Credit Hours
<b>Prerequisite Requirements</b> <sup>1</sup>		
RUSS 12201	ELEMENTARY RUSSIAN I	
RUSS 12202	ELEMENTARY RUSSIAN II	
RUSS 22201	INTERMEDIATE RUSSIAN I	
RUSS 22202	INTERMEDIATE RUSSIAN II	

Minor Requirements		
MCLS 30420	FOREIGN LANGUAGES AND CULTURE STUDIES	3
RUSS 32201	INTENSIVE RUSSIAN GRAMMAR	3
RUSS 32211	COMPOSITION AND CONVERSATION	3
RUSS 32215	RUSSIAN PHONETICS AND DICTION	3
RUSS 32240	CONVERSATION FOR BUSINESS AND SPECIAL PURPOSES: RUSSIAN	3
RUSS 32421	RUSSIAN CIVILIZATION (ELR) (WIC)	3
RUSS 42240	BUSINESS AND SPECIAL TEXTS: RUSSIAN	3
Minimum Total Credit Hours:		21

<sup>1</sup> Prerequisites may be satisfied with demonstrated language proficiency.

## Graduation Requirements

Minimum Minor GPA	Minimum Overall GPA
2.000	2.000

- Students must complete at least two upper-division (30000 or 40000 level) courses in the minor at Kent State on a graded basis (A-F).
- Minimum 6 credit hours in the minor must be upper-division coursework (30000 and 40000 level).
- Minimum 6 credit hours in the minor must be outside of the course requirements for any major or other minor the student is pursuing.
- Minimum 50 percent of the total credit hours for the minor must be taken at Kent State (in residence).

### Program Note

- Some courses in the Department of Modern and Classical Language Studies are offered on a rotating basis, and course availability may change at any time. Visit the department's website for course offering projections and advising with course planning.

## Business Spanish - Minor

### College of Arts and Sciences

Department of Modern and Classical Language Studies  
109 Satterfield Hall  
Kent Campus  
330-672-2150  
mcls@kent.edu  
www.kent.edu/mcls

## Description

The Business Spanish minor offers core courses in language, culture and conversation/texts for business purposes. The minor is especially well-suited as a combination with a business or marketing major.

### Fully Offered At:

- Kent Campus

## Admission Requirements

Admission to a minor is open to students declared in a bachelor's degree, the A.A.B. or A.A.S. degree or the A.T.S. degree (not Individualized Program major). Students declared only in the A.A. or A.S. degree or the

A.T.S. degree in Individualized Program may not declare a minor. Students may not pursue a minor and a major in the same discipline.

## Minor Requirements

Code	Title	Credit Hours
<b>Prerequisite Requirements</b> <sup>1</sup>		
SPAN 18201	ELEMENTARY SPANISH I	
SPAN 18202	ELEMENTARY SPANISH II	
SPAN 28201	INTERMEDIATE SPANISH I	
SPAN 28202	INTERMEDIATE SPANISH II	
<b>Minor Requirements</b>		
MCLS 30420	FOREIGN LANGUAGES AND CULTURE STUDIES	3
SPAN 38211	SPANISH GRAMMAR AND COMPOSITION	3
SPAN 38213	SPANISH READING AND CONVERSATION	3
SPAN 38215	SPANISH PHONETICS AND DICTION	3
SPAN 38240	CONVERSATION FOR BUSINESS AND SPECIAL PURPOSES: SPANISH	3
SPAN 38421	CIVILIZATION OF SPAIN	3
or SPAN 38424	CULTURE AND CIVILIZATION OF LATIN AMERICA	
SPAN 48240	BUSINESS AND SPECIAL TEXTS: SPANISH	3
Minimum Total Credit Hours:		21

<sup>1</sup> Prerequisites may be satisfied with demonstrated language proficiency.

## Graduation Requirements

Minimum Minor GPA	Minimum Overall GPA
2.000	2.000

- Students must complete at least two upper-division (30000 or 40000 level) courses in the minor at Kent State on a graded basis (A-F).
- Minimum 6 credit hours in the minor must be upper-division coursework (30000 and 40000 level).
- Minimum 6 credit hours in the minor must be outside of the course requirements for any major or other minor the student is pursuing.
- Minimum 50 percent of the total credit hours for the minor must be taken at Kent State (in residence).

## Program Note

- Some courses in the Department of Modern and Classical Language Studies are offered on a rotating basis, and course availability may change at any time. Visit the department's website for course offering projections and advising with course planning.

## Chinese - Minor

### College of Arts and Sciences

Department of Modern and Classical Language Studies  
109 Satterfield Hall  
Kent Campus  
330-672-2150  
mcls@kent.edu  
www.kent.edu/mcls

## Description

The Chinese minor provides a variety of courses to develop not only the traditional skills of listening, speaking, reading and writing, but also international cultural competence and critical thinking skills. By imitating natural mother-tongue language learning processes and employing student-centered classroom techniques, this minor provides students practice in using Chinese in real-life contexts and equips students to speak about their own and other cultures.

## Fully Offered At:

- Kent Campus

## Admission Requirements

Admission to a minor is open to students declared in a bachelor's degree, the A.A.B. or A.A.S. degree or the A.T.S. degree (not Individualized Program major). Students declared only in the A.A. or A.S. degree or the A.T.S. degree in Individualized Program may not declare a minor. Students may not pursue a minor and a major in the same discipline.

## Minor Requirements

Code	Title	Credit Hours
<b>Prerequisite Requirements</b> <sup>1</sup>		
CHIN 15101	ELEMENTARY CHINESE I	
CHIN 15102	ELEMENTARY CHINESE II	
<b>Minor Requirements</b>		
CHIN 25201	INTERMEDIATE CHINESE I	4
CHIN 25202	INTERMEDIATE CHINESE II	4
CHIN 25421	CHINESE CULTURE	3
CHIN 35211	INTENSIVE CHINESE CONVERSATION	3
Minor Electives, choose from the following:		6
CHIN 35221	CHINESE IN THE REAL WORLD	
CHIN 45322	CHINESE FICTION	
CHIN 45323	CHINESE COMPOSITION	
CHIN 30095	SPECIAL TOPICS	
CHIN 45302	BUSINESS CHINESE	
Minimum Total Credit Hours:		20

<sup>1</sup> Prerequisites may be satisfied with demonstrated language proficiency.

## Graduation Requirements

Minimum Minor GPA	Minimum Overall GPA
2.000	2.000

- Students must complete at least two upper-division (30000 or 40000 level) courses in the minor at Kent State on a graded basis (A-F).
- Minimum 6 credit hours in the minor must be upper-division coursework (30000 and 40000 level).
- Minimum 6 credit hours in the minor must be outside of the course requirements for any major or other minor the student is pursuing.
- Minimum 50 percent of the total credit hours for the minor must be taken at Kent State (in residence).

## Program Note

- Some courses in the Department of Modern and Classical Language Studies are offered on a rotating basis, and course availability may change at any time. Visit the department's website for course offering projections and advising with course planning.

## Classics - B.A.

### College of Arts and Sciences

Department of Modern and Classical Language Studies

109 Satterfield Hall

Kent Campus

330-672-2150

mcls@kent.edu

www.kent.edu/mcls

## Description

The Bachelor of Arts degree in Classics provides a foundation in the Western humanities while sharpening a student's analytical skills and English vocabulary through the systematic study of the ancient languages. Colloquia are offered regularly, covering such thematic topics as violence, gender, sexuality and ancient Christianities.

The Classics major comprises the following concentrations:

- The **Greek** concentration offers opportunities for students to read original Greek texts by such authors as Plato and Homer to enrich their knowledge of classical languages. Students may select from a list of culture courses dealing with the art, archaeology, history, mythology and literature of the classical world.
- The **Latin** concentration offers opportunities for students to read original Latin texts by such authors as Cicero and Vergil to enrich their knowledge of classical languages. Students may select from a list of culture courses dealing with the art, archaeology, history, mythology and literature of the Classical world. Students in the Latin concentration are eligible to pursue teacher licensure at the secondary level.
- The **Classical Civilization** concentration is designed for students with a broad interest in the Classical world. The major offers a wide variety of diverse subjects, including the literature, art archaeology, history, law, religion, sport and mythology of the Classical world. The coursework is all in English, but students may take coursework in ancient Greek or Latin beyond the elementary level. The program provides students with a strong, general liberal arts education appropriate to many pursuits after college, including law, medicine, business, writing and publishing.
- The **Religion Studies** concentration is founded on the study of the ancient multicultural traditions of the Mediterranean peoples, whose multiple worldviews gave rise to religious traditions that, together with the classical heritage, shaped successive Western civilizations. Students begin with a core of classics courses, in order to understand the cultural context within which the traditions of Second-Temple Judaism, Rabbinic Judaism and early Christianities arise. Concentration requirements form an introduction to the content of classical world religions, including major Eastern traditions and Islam, and to the study of religion as an academic discipline. Courses examine the classical and Western traditions in greater depth, explore the reception of and discourse about Western traditions with medieval and modern societies, or take a comparative approach to

the examination of non-Western traditions. The program emphasizes critical thinking skills and provides a liberal arts education especially well-suited for those planning on careers as religious professionals.

## Fully Offered At:

- Kent Campus

## Admission Requirements

The university affirmatively strives to provide educational opportunities and access to students with varied backgrounds, those with special talents and adult students who graduated from high school three or more years ago.

**Freshman Students on the Kent Campus:** The freshman admission policy on the Kent Campus is selective. Admission decisions are based upon the following: cumulative grade point average, ACT and/or SAT scores, strength of high school college preparatory curriculum and grade trends. The Admissions Office at the Kent Campus may defer the admission of students who do not meet admissions criteria but who demonstrate areas of promise for successful college study. Deferred applicants may begin their college coursework at one of seven regional campuses of Kent State University. For more information on admissions, including additional requirements for some academic programs, visit the admissions website for new freshmen.

**Freshman Students on the Regional Campuses:** Kent State campuses at Ashtabula, East Liverpool, Geauga, Salem, Stark, Trumbull and Tuscarawas, as well as the Regional Academic Center in Twinsburg, have open enrollment admission for students who hold a high school diploma, GED or equivalent.

**English Language Proficiency Requirements for International Students:** All international students must provide proof of English language proficiency (unless they meet specific exceptions) by earning a minimum 525 TOEFL score (71 on the Internet-based version), minimum 75 MELAB score, minimum 6.0 IELTS score or minimum 48 PTE score, or by completing the ESL level 112 Intensive Program. For more information on international admission, visit the Office of Global Education's admission website.

**Transfer, Transitioning and Former Students:** For more information about admission criteria for transfer, transitioning and former students, please visit the admissions website.

## Program Learning Outcomes

Graduates of the Latin and Greek concentrations will be able to:

1. Demonstrate understandings of the Greek or Roman cultural context within which literary, historical and other writings were produced.
2. Distinguish between ancient and modern cultural values.
3. Recognize historical biases.
4. Use primary source materials, including material culture, to better understand the cultures of the ancient world.
5. Read Latin at the level of Cicero and Vergil, or Greek at the level of Homer and Plato.
6. Compose complex sentences in Latin or Greek.
7. Analyze texts with respect to philology, literary style and cultural contexts.

- Demonstrate general knowledge of the literature, history and culture of classical civilization (Greece and Rome).

Graduates of the Classical Civilization concentration will be able to:

- Demonstrate understandings of the Greek or Roman cultural context within which literary, historical and other writings were produced.
- Appreciate the contributions of the Greco-Roman world to modern societies.
- Distinguish between ancient and modern cultural values.
- Recognize historical biases.
- Apply critical thinking to ethical conundrums in the record of the past.
- Apply a variety of methodologies to the study of the past.
- Use primary source materials, including material culture, to better understand the cultures of the ancient world.

Graduates of the Religion Studies concentration will be able to:

- Demonstrate understandings of the Greek or Roman cultural contexts within which Jewish and Christian texts were produced.
- Appreciate the contributions of western antiquity to modern religious thought of a wide variety of faiths and doctrines.
- Distinguish between ancient and modern religious values and biases.
- Apply critical thinking to matters of difficult interpretation.
- Employ a variety of methodologies to study religions of the past and present.
- Use primary source materials-both literary and material-to understand better the complexities of religion, in both the ancient Greco-Roman world and the modern world.

## University Requirements

All students in a bachelor's degree program at Kent State University must complete the following university requirements for graduation.

**NOTE:** University requirements may be fulfilled in this program by specific course requirements. Please see Program Requirements for details.

Destination Kent State: First Year Experience	1
Course is not required for students with 25 transfer credits, excluding College Credit Plus, or age 21+ at time of admission.	
Diversity Domestic/Global (DIVD/DIVG)	2 courses
Students must successfully complete one domestic and one global course, of which one must be from the Kent Core.	
Experiential Learning Requirement (ELR)	varies
Students must successfully complete one course or approved experience.	
Kent Core (see table below)	36-37
Writing-Intensive Course (WIC)	1 course
Students must earn a minimum C grade in the course.	
Upper-Division Requirement	39 (or 42)
Students must successfully complete 39 upper-division (numbered 30000 to 49999) credit hours to graduate. Students in a B.A. and/or B.S. degree in the College of Arts and Sciences must complete 42 upper-division credit hours.	
Total Credit Hour Requirement	120
Some bachelor's degrees require students to complete more than 120 credit hours.	

## Kent Core Requirements

Kent Core Composition (KCMP)	6
Kent Core Mathematics and Critical Reasoning (KMCR)	3
Kent Core Humanities and Fine Arts (KHUM/KFA) (min one course each)	9
Kent Core Social Sciences (KSS) (must be from two disciplines)	6
Kent Core Basic Sciences (KBS/KLAB) (must include one laboratory)	6-7
Kent Core Additional (KADL)	6
<b>Total Credit Hours:</b>	<b>36-37</b>

## Program Requirements

### Major Requirements

Code	Title	Credit Hours
<b>Major Requirements (courses count in major GPA)</b>		
The Fundamentals of Greek and Roman Culture		
CLAS 21404	THE GREEK ACHIEVEMENT (DIVG) (KHUM)	3
CLAS 21405	THE ROMAN ACHIEVEMENT (DIVG) (KHUM)	3
Ancient History		
CLAS 41005	HISTORY OF ANCIENT GREECE	3
or CLAS 41006	ROMAN HISTORY	
Literature of the Ancient World		
CLAS 41304	LITERATURE OF THE ROMAN WORLD (ELR) (WIC) <sup>1</sup>	3
or CLAS 41503	LITERATURE OF THE ANCIENT GREEKS (ELR) (WIC)	
Classical Archaeology		
CLAS 41401	GREEK ARCHAEOLOGY AND ART	3
or CLAS 41402	ROMAN ARCHAEOLOGY AND ART	
Capstone Elective, choose from the following:		
CLAS 41095	SPECIAL TOPICS IN CLASSICS	3
CLAS 41097	COLLOQUIUM IN CLASSICS	
CLAS 41305	CLASSICAL LITERARY STUDIES	
REL 41091	SEMINAR IN ADVANCED COMPARATIVE RELIGION	

<b>Additional Requirements (courses do not count in major GPA)</b>		
UC 10097	DESTINATION KENT STATE: FIRST YEAR EXPERIENCE	1
Foreign Language: recommended students take Greek or Latin <sup>2</sup>		14-16
Kent Core Composition		6
Kent Core Mathematics and Critical Reasoning		3
Kent Core Fine Arts		3
Kent Core Social Sciences (must be from two disciplines)		6
Kent Core Basic Sciences (must include one laboratory)		6-7
Kent Core Additional		6
College General Requirement (must be from Kent Core Basic Sciences) <sup>3</sup>		3
College General Requirement (must be from Kent Core Social Sciences) <sup>4</sup>		3
General Electives (total credit hours depends on earning 120 credit hours, including 42 upper-division credit hours)		39
<b>Concentrations</b>		
Choose from the following:		12-15
Classical Civilization		
Greek		



Latin	
Religion Studies	
Minimum Total Credit Hours:	120

- A minimum C grade must be earned to fulfill writing-intensive requirement.
- For students declared in the Classical Civilization concentration, foreign language is required. For students declared in the Greek concentration, it is expected that they take or have met the prerequisites of GRE 14201 and GRE 14202 (if those courses are complete, students should take general electives). For students declared in the Latin concentration, it is expected that they take or have met the prerequisites of LAT 16201 and LAT 16202 (if those courses are complete, students should take general electives).
- One additional course taken from the Kent Core Basic Science courses in the following Arts and Sciences disciplines: Anthropology (ANTH), Biological Sciences (BSCI), Chemistry (CHEM), Geography (GEOG), Geology (GEOL) or Physics (PHY). The course may not be from the student's major.
- One additional course taken from the Kent Core Social Sciences courses in the following Arts and Sciences disciplines: Anthropology (ANTH), Geography (GEOG), Criminology and Justice Studies (CRIM), Peace and Conflict Studies (PACS), Political Science (POL), Psychology (PSYC) or Sociology (SOC). The course may not be from the student's major.

### Classical Civilization Concentration Requirements

Code	Title	Credit Hours
<b>Concentration Requirements (courses count in major GPA)</b>		
Classics Culture Electives, choose from the following:		12
MCLS 30420	FOREIGN LANGUAGES AND CULTURE STUDIES	
Classics (CLAS) Electives (20000, 30000 or 40000 level)		
Greek (GRE) Electives (20000, 30000 or 40000 levels) <sup>1</sup>		
Latin (LAT) Electives (20000, 30000 or 40000 levels) <sup>1</sup>		
Minimum Total Credit Hours:		12

- Maximum 12 credit hours of Latin (LAT) or Greek (GRE) courses may be counted toward the major.

### Greek Concentration Requirements

Code	Title	Credit Hours
<b>Prerequisite Requirements</b>		
GRE 14201	ELEMENTARY CLASSICAL GREEK I	
GRE 14202	ELEMENTARY CLASSICAL GREEK II	
<b>Concentration Requirements (courses count in major GPA)</b>		
GRE 24201	INTERMEDIATE CLASSICAL GREEK I: READINGS	3
GRE 24202	INTERMEDIATE CLASSICAL GREEK II: READINGS	3
GRE 34372	ADVANCED READINGS IN GREEK	3
Classics Culture Electives, choose from the following:		3
MCLS 30420	FOREIGN LANGUAGES AND CULTURE STUDIES	
Classics (CLAS) Electives (20000, 30000 or 40000 level)		
Greek (GRE) Upper-Division Electives (30000 or 40000 level)		
Minimum Total Credit Hours:		12

### Latin Concentration Requirements

Code	Title	Credit Hours
<b>Prerequisite Requirements</b>		
LAT 16201	ELEMENTARY LATIN I	
LAT 16202	ELEMENTARY LATIN II	
LAT 26201	INTERMEDIATE LATIN I: READINGS	
LAT 26202	INTERMEDIATE LATIN II: READINGS	
<b>Concentration Requirements (courses count in major GPA)</b>		
LAT 36172	ADVANCED READINGS IN LATIN	3
Latin (LAT) Electives (40000 level)		9
Minimum Total Credit Hours:		12

### Religion Studies Concentration Requirements

Code	Title	Credit Hours
<b>Concentration Requirements (courses count in major GPA)</b>		
REL 11020	INTRODUCTION TO WORLD RELIGIONS (DIVG) (ELR) (KHUM)	3
or REL 21021	MOSES, JESUS AND MOHAMMAD (DIVG) (ELR) (KHUM)	
Religious Culture, Thought and Literature Elective, choose from the following:		3
CLAS 41095	SPECIAL TOPICS IN CLASSICS <sup>1</sup>	
CLAS 41097	COLLOQUIUM IN CLASSICS <sup>1</sup>	
CLAS 41301	CLASSICAL MYTHOLOGY	
CLAS 41304	LITERATURE OF THE ROMAN WORLD (ELR) (WIC)	
CLAS 41305	CLASSICAL LITERARY STUDIES <sup>1</sup>	
CLAS 41404	ANCIENT CHRISTIANITIES	
ENG 35201	THE BIBLE AS LITERATURE	
PHIL 31001	ANCIENT GREEK PHILOSOPHY (WIC)	
PHIL 31002	MEDIEVAL PHILOSOPHY (WIC)	
PHIL 31072	AMERICAN INDIAN PHILOSOPHIES (DIVD)	
PHIL 31075	PHILOSOPHY AND CULTURE (DIVG)	
PHIL 41010	PROBLEMS IN THE PHILOSOPHY OF RELIGION	
REL 31065	COMPARATIVE RELIGIOUS EXPERIENCE	
REL 31091	SEMINAR: RELIGION IN THE MODERN WORLD	
REL 41091	SEMINAR IN ADVANCED COMPARATIVE RELIGION	
Social Scientific Study and History Elective, choose from the following:		3
ANTH 48150	RELIGION: A SEARCH FOR A MEANING	
HIST 31126	HISTORY OF THE MIDDLE EAST	
HIST 31127	ANCIENT AND EARLY MEDIEVAL JEWISH HISTORY	
HIST 31128	LATE MEDIEVAL AND MODERN JEWISH HISTORY	
HIST 41129	THE HOLOCAUST: THE DESTRUCTION OF EUROPEAN JEWRY, 1938-1945	
PACS 32040	CROSS-CULTURAL CONFLICT MANAGEMENT (DIVG)	
REL 11020	INTRODUCTION TO WORLD RELIGIONS (DIVG) (ELR) (KHUM)	
or REL 21021	MOSES, JESUS AND MOHAMMAD (DIVG) (ELR) (KHUM)	
SOC 42561	SOCIOLOGY OF RELIGION	
Additional Social Scientific Study and History or Religious Culture, Thought and Literature Electives <sup>1</sup>		6
Minimum Total Credit Hours:		15

<sup>1</sup> Students must choose courses not already completed from any of the elective lists.

## Graduation Requirements

Minimum Major GPA	Minimum Overall GPA
2.000	2.000

## Foreign Language College Requirement

Students pursuing the Bachelor of Arts degree in the College of Arts and Sciences must complete 14-16 credit hours of foreign language.<sup>1</sup>

To complete the requirement, students have the equivalent of Elementary I and II in any language, plus one of the following options:

- Intermediate I and II of the same language<sup>2</sup>
- Elementary I and II of a second language
- Any combination of two courses from the following list:

- Intermediate I of the same language
- MCLS 10001 INTRODUCTION TO STRUCTURAL CONCEPTS FOR LANGUAGE STUDENTS
- MCLS 20091 VARIABLE CONTENT SEMINAR IN GLOBAL LITERACY: CASE STUDIES
- MCLS 21417 MULTICULTURALISM IN TODAY'S GERMANY (DIVG)
- MCLS 28404 THE LATIN AMERICAN EXPERIENCE (DIVG)

<sup>1</sup> All students with prior foreign language experience should take the foreign language placement test to determine the appropriate level at which to start. Some students may begin beyond the Elementary I level and will complete the requirement with fewer credit hours and fewer courses. This may be accomplished by (1) passing a course beyond Elementary I through Intermediate II level; (2) receiving credit through Credit by Exam (CBE), Advanced Placement (AP), International Baccalaureate (IB) or College Level Examination Program (CLEP); or (3) being designated a 'native speaker' of a non-English language (consult with the College of Arts and Sciences Advising Office for additional information). When students complete the requirement with fewer than 14 credit hours and four courses, they will complete remaining credit hours with general electives.

<sup>2</sup> Certain majors, concentrations and minors may require specific languages, limit the languages from which a student may choose or require coursework through Intermediate II. Students who plan to pursue graduate study may need particular language coursework.

## PROGRAM NOTE

- Some courses in the Department of Modern and Classical Language Studies are offered on a rotating basis, and course availability may change at any time. Visit the department's website for course offering projections and advising with course planning.

## Roadmaps

- Classical Civilization Concentration
- Greek Concentration
- Latin Concentration
- Religion Studies Concentration

## Classical Civilization Concentration

This roadmap is a recommended semester-by-semester plan of study for this major. However, courses designated as critical (!) must be completed in the semester listed to ensure a timely graduation.

Semester One		Credits
CLAS 21404	THE GREEK ACHIEVEMENT (DIVG) (KHUM)	3
or	or THE ROMAN ACHIEVEMENT (DIVG) (KHUM)	
CLAS 21405		
UC 10097	DESTINATION KENT STATE: FIRST YEAR EXPERIENCE	1
Foreign Language		4
Kent Core Requirement		3
Kent Core Requirement		3
Kent Core Requirement		3
Credit Hours		17
Semester Two		
CLAS 21404	THE GREEK ACHIEVEMENT (DIVG) (KHUM)	3
or	or THE ROMAN ACHIEVEMENT (DIVG) (KHUM)	
CLAS 21405		
Foreign Language		4
Kent Core Requirement		3
Kent Core Requirement		3
Credit Hours		13
Semester Three		
Classics Culture Electives		3
Foreign Language		3
Kent Core Requirement		3
Kent Core Requirement		3
Kent Core Requirement		3
Credit Hours		15
Semester Four		
Classics Culture Electives		6
Foreign Language		3
Kent Core Requirement		3
General Electives		3
Credit Hours		15
Semester Five		
CLAS 41005	HISTORY OF ANCIENT GREECE	3
or	or ROMAN HISTORY	
CLAS 41006		
CLAS 41401	GREEK ARCHAEOLOGY AND ART	3
or	or ROMAN ARCHAEOLOGY AND ART	
CLAS 41402		
Classics Culture Electives		3
Kent Core Requirement		3
General Electives		3
Credit Hours		15
Semester Six		
CLAS 41304	LITERATURE OF THE ROMAN WORLD (ELR) (WIC)	3
or	or LITERATURE OF THE ANCIENT GREEKS	
CLAS 41503	(ELR) (WIC)	
College General Requirement		3
General Electives		9
Credit Hours		15
Semester Seven		
Capstone Electives		3
College General Requirements		3

General Electives	9
Credit Hours	15
<b>Semester Eight</b>	
General Electives	15
Credit Hours	15
Minimum Total Credit Hours:	120

## Greek Concentration

This roadmap is a recommended semester-by-semester plan of study for this major. However, courses designated as critical (!) must be completed in the semester listed to ensure a timely graduation.

Semester One		Credits
CLAS 21404	THE GREEK ACHIEVEMENT (DIVG) (KHUM) or or THE ROMAN ACHIEVEMENT (DIVG) (KHUM) CLAS 21405	3
UC 10097	DESTINATION KENT STATE: FIRST YEAR EXPERIENCE	1
Kent Core Requirement		3
Kent Core Requirement		3
Kent Core Requirement		3
Credit Hours		13
<b>Semester Two</b>		
CLAS 21404	THE GREEK ACHIEVEMENT (DIVG) (KHUM) or or THE ROMAN ACHIEVEMENT (DIVG) (KHUM) CLAS 21405	3
Kent Core Requirement		3
Kent Core Requirement		3
Kent Core Requirement		3
Kent Core Requirement		3
Credit Hours		15
<b>Semester Three</b>		
Classics Culture Electives		3
Prerequisites or General Electives		4
Kent Core Requirement		3
Kent Core Requirement		3
Credit Hours		13
<b>Semester Four</b>		
Prerequisites or General Electives		4
Kent Core Requirement		3
General Electives		9
Credit Hours		16
<b>Semester Five</b>		
CLAS 41005	HISTORY OF ANCIENT GREECE or or ROMAN HISTORY CLAS 41006	3
CLAS 41401	GREEK ARCHAEOLOGY AND ART or or ROMAN ARCHAEOLOGY AND ART CLAS 41402	3
GRE 24201	INTERMEDIATE CLASSICAL GREEK I:READINGS	3
College General Requirement		3
General Electives		3
Credit Hours		15
<b>Semester Six</b>		
CLAS 41304	LITERATURE OF THE ROMAN WORLD (ELR) (WIC) or or LITERATURE OF THE ANCIENT GREEKS CLAS 41503 (ELR) (WIC)	3
GRE 24202	INTERMEDIATE CLASSICAL GREEK II:READINGS	3
College General Requirement		3

General Electives	6	
Credit Hours	15	
<b>Semester Seven</b>		
GRE 34372	ADVANCED READINGS IN GREEK	3
Capstone Electives		3
General Electives		12
Credit Hours		18
<b>Semester Eight</b>		
General Electives		15
Credit Hours		15
Minimum Total Credit Hours:		120

## Latin Concentration

This roadmap is a recommended semester-by-semester plan of study for this major. However, courses designated as critical (!) must be completed in the semester listed to ensure a timely graduation.

Semester One		Credits
CLAS 21404	THE GREEK ACHIEVEMENT (DIVG) (KHUM) or or THE ROMAN ACHIEVEMENT (DIVG) (KHUM) CLAS 21405	3
UC 10097	DESTINATION KENT STATE: FIRST YEAR EXPERIENCE	1
Kent Core Requirement		3
Kent Core Requirement		3
Kent Core Requirement		3
! Prerequisites or General Electives		4
Credit Hours		17
<b>Semester Two</b>		
CLAS 21404	THE GREEK ACHIEVEMENT (DIVG) (KHUM) or or THE ROMAN ACHIEVEMENT (DIVG) (KHUM) CLAS 21405	3
Kent Core Requirement		3
Kent Core Requirement		3
! Prerequisites or General Electives		4
Credit Hours		13
<b>Semester Three</b>		
Prerequisites or General Electives		3
Kent Core Requirement		3
Kent Core Requirement		3
Kent Core Requirement		3
Kent Core Requirement		3
Credit Hours		15
<b>Semester Four</b>		
Prerequisites or General Electives		3
Kent Core Requirement		3
General Electives		9
Credit Hours		15
<b>Semester Five</b>		
! CLAS 41006	ROMAN HISTORY	3
LAT 36172	ADVANCED READINGS IN LATIN	3
College General Requirement		6
General Electives		3
Credit Hours		15
<b>Semester Six</b>		
! CLAS 41304	LITERATURE OF THE ROMAN WORLD (ELR) (WIC) or or LITERATURE OF THE ANCIENT GREEKS CLAS 41503 (ELR) (WIC)	3

!	CLAS 41401	GREEK ARCHAEOLOGY AND ART	3
	or	or ROMAN ARCHAEOLOGY AND ART	
	CLAS 41402		
	Latin Electives		3
	General Electives		6
	Credit Hours		15
	<b>Semester Seven</b>		
	Capstone Electives		3
!	Latin Electives		3
	General Electives		9
	Credit Hours		15
	<b>Semester Eight</b>		
	Latin Electives		3
	General Electives		12
	Credit Hours		15
	Minimum Total Credit Hours:		120

## Religion Studies Concentration

This roadmap is a recommended semester-by-semester plan of study for this major. However, courses designated as critical (!) must be completed in the semester listed to ensure a timely graduation.

	<b>Semester One</b>		<b>Credits</b>
	CLAS 21404	THE GREEK ACHIEVEMENT (DIVG) (KHUM)	3
	or	or THE ROMAN ACHIEVEMENT (DIVG) (KHUM)	
	CLAS 21405		
	UC 10097	DESTINATION KENT STATE: FIRST YEAR EXPERIENCE	1
	Foreign Language		4
	Kent Core Requirement		3
	Kent Core Requirement		3
	Credit Hours		14
	<b>Semester Two</b>		
	CLAS 21404	THE GREEK ACHIEVEMENT (DIVG) (KHUM)	3
	or	or THE ROMAN ACHIEVEMENT (DIVG) (KHUM)	
	CLAS 21405		
	Foreign Language		4
	Kent Core Requirement		3
	Kent Core Requirement		3
	Kent Core Requirement		3
	Credit Hours		16
	<b>Semester Three</b>		
	REL 11020	INTRODUCTION TO WORLD RELIGIONS (DIVG)	3
	or	(ELR) (KHUM)	
	REL 21021	or MOSES, JESUS AND MOHAMMAD (DIVG)	
		(ELR) (KHUM)	
	Foreign Language		3
	Kent Core Requirement		3
	Kent Core Requirement		3
	Kent Core Requirement		3
	Credit Hours		15
	<b>Semester Four</b>		
	Social Scientific Study and History Elective		3
	Foreign Language		3
	Kent Core Requirement		3
	College General Requirement		3
	General Electives		3
	Credit Hours		15

	<b>Semester Five</b>		
	Religious Culture, Thought and Literature Elective		3
	Additional Social Scientific Study and History or Religious Culture, Thought and Literature Elective		3
	CLAS 41005	HISTORY OF ANCIENT GREECE	3
	or	or ROMAN HISTORY	
	CLAS 41006		
	General Electives		6
	Credit Hours		15
	<b>Semester Six</b>		
!	CLAS 41304	LITERATURE OF THE ROMAN WORLD (ELR) (WIC)	3
	or	or LITERATURE OF THE ANCIENT GREEKS	
	CLAS 41503	(ELR) (WIC)	
	Additional Social Scientific Study and History or Religious Culture, Thought and Literature Elective		3
	College General Requirement		3
	General Electives		6
	Credit Hours		15
	<b>Semester Seven</b>		
	CLAS 41401	GREEK ARCHAEOLOGY AND ART	3
	or	or ROMAN ARCHAEOLOGY AND ART	
	CLAS 41402		
	General Electives		12
	Credit Hours		15
	<b>Semester Eight</b>		
	Capstone Elective		3
	General Electives		12
	Credit Hours		15
	Minimum Total Credit Hours:		120







## Classics - Minor

### College of Arts and Sciences

Department of Modern and Classical Language Studies  
109 Satterfield Hall  
Kent Campus  
330-672-2150  
mcls@kent.edu  
www.kent.edu/mcls

## Description

The Classics minor is for students who wish to study classical antiquity both in terms of language and cultural studies.

### Fully Offered At:

- Kent Campus

## Admission Requirements

Admission to a minor is open to students declared in a bachelor's degree, the A.A.B. or A.A.S. degree or the A.T.S. degree (not Individualized Program major). Students declared only in the A.A. or A.S. degree or the A.T.S. degree in Individualized Program may not declare a minor. Students may not pursue a minor and a major in the same discipline.

## Minor Requirements

Code	Title	Credit Hours
<b>Minor Requirements</b>		
CLAS 21404	THE GREEK ACHIEVEMENT (DIVG) (KHUM)	3
CLAS 21405	THE ROMAN ACHIEVEMENT (DIVG) (KHUM)	3
Classical Culture Upper-Division Electives, choose from the following:		6
Classics (CLAS) Upper-Division Electives (30000 or 40000 level)		
Greek (GRE) Upper-Division Electives (30000 or 40000 level)		
Latin (LAT) Upper-Division Electives (30000 or 40000 level)		
Classical Culture Electives, choose from the following:		3
MCLS 30420	FOREIGN LANGUAGES AND CULTURE STUDIES	
Classics (CLAS) Electives (20000, 30000 or 40000 level)		
Greek Upper-Division Elective (GRE 30000 or 40000 level)		
Latin Upper-Division Elective (LAT 30000 or 40000 level)		
Minimum Total Credit Hours:		15

## Graduation Requirements

Minimum Minor GPA	Minimum Overall GPA
2.000	2.000

- Students must complete at least two upper-division (30000 or 40000 level) courses in the minor at Kent State on a graded basis (A-F).
- Minimum 6 credit hours in the minor must be upper-division coursework (30000 and 40000 level).
- Minimum 6 credit hours in the minor must be outside of the course requirements for any major or other minor the student is pursuing.
- Minimum 50 percent of the total credit hours for the minor must be taken at Kent State (in residence).

## Program Note

- Some courses in the Department of Modern and Classical Language Studies are offered on a rotating basis, and course availability may change at any time. Visit the department's website for course offering projections and advising with course planning.

## French - B.A.

### College of Arts and Sciences

Department of Modern and Classical Language Studies  
109 Satterfield Hall  
Kent Campus  
330-672-2150  
mcls@kent.edu  
www.kent.edu/mcls

## Description

The Bachelor of Arts degree in French provides opportunity for students to study the language, literature and culture of France and Francophone countries. Students gain a respectable measure of competence in reading, writing and oral/aural skills in the French language. To help gain proficiency, students can attend a weekly French coffee hour. A conversation course sometimes involves speaking to people in France live via teleconferencing.

Students can take upper-division French courses abroad, either through Kent's own year-long program with the University of Bordeaux or with any accredited study abroad program offered by another university. Such programs may be for one semester, one academic year, or one summer. They most benefit students who have already acquired a strong command of the language here before leaving, however.

### Fully Offered At:

- Kent Campus

## Admission Requirements

The university affirmatively strives to provide educational opportunities and access to students with varied backgrounds, those with special talents and adult students who graduated from high school three or more years ago.

**Freshman Students on the Kent Campus:** The freshman admission policy on the Kent Campus is selective. Admission decisions are based upon the following: cumulative grade point average, ACT and/or SAT scores, strength of high school college preparatory curriculum and grade trends. The Admissions Office at the Kent Campus may defer the admission of students who do not meet admissions criteria but who demonstrate areas of promise for successful college study. Deferred applicants may begin their college coursework at one of seven regional campuses of Kent State University. For more information on admissions, including additional requirements for some academic programs, visit the admissions website for new freshmen.

**Freshman Students on the Regional Campuses:** Kent State campuses at Ashtabula, East Liverpool, Geauga, Salem, Stark, Trumbull and Tuscarawas, as well as the Regional Academic Center in Twinsburg, have open enrollment admission for students who hold a high school diploma, GED or equivalent.

**English Language Proficiency Requirements for International Students:**

All international students must provide proof of English language proficiency (unless they meet specific exceptions) by earning a minimum 525 TOEFL score (71 on the Internet-based version), minimum 75 MELAB score, minimum 6.0 IELTS score or minimum 48 PTE score, or by completing the ESL level 112 Intensive Program. For more information on international admission, visit the Office of Global Education's admission website.

**Transfer, Transitioning and Former Students:** For more information about admission criteria for transfer, transitioning and former students, please visit the admissions website.

## Program Learning Outcomes

Graduates of this program will be able to:

1. Perform tasks at intermediate high and advanced low levels of proficiency as described by the American Council on the Teaching of Foreign Languages (ACTFL) Proficiency Guidelines. Proficiency, in ACTFL terms, is understood to describe a range of qualities rather than an absolute norm and will vary according to task type, language function, topic, skill (listening, speaking, reading, writing) and so forth.
2. Contribute to most informal and some formal conversations with sufficient accuracy, clarity and precision to convey their intended message without misrepresentation or confusion.
3. Read a wide variety of and complex texts written for native speakers of French and not edited or adapted for non-native speakers.
4. Write cohesive summaries, narratives and descriptions of a factual nature in French.
5. Demonstrate a knowledge of French history and culture and understand the diverse nature of culture throughout the ages.
6. Discuss cultural differences, distinguishing between fact, opinion and stereotypes.
7. Communicate effectively and sensitively with diverse ethnic and cultural groups.
8. View concepts, issues, events and themes from the perspectives of diverse ethnic and cultural groups.
9. Esteem diversity.
10. Maintain an ongoing assessment of their own cultural values and behaviors.

## University Requirements

All students in a bachelor's degree program at Kent State University must complete the following university requirements for graduation.

**NOTE:** University requirements may be fulfilled in this program by specific course requirements. Please see Program Requirements for details.

Destination Kent State: First Year Experience	1
Course is not required for students with 25 transfer credits, excluding College Credit Plus, or age 21+ at time of admission.	
Diversity Domestic/Global (DIVD/DIVG)	2 courses
Students must successfully complete one domestic and one global course, of which one must be from the Kent Core.	
Experiential Learning Requirement (ELR)	varies
Students must successfully complete one course or approved experience.	
Kent Core (see table below)	36-37
Writing-Intensive Course (WIC)	1 course

Students must earn a minimum C grade in the course.

Upper-Division Requirement	39 (or 42)
Students must successfully complete 39 upper-division (numbered 30000 to 49999) credit hours to graduate. Students in a B.A. and/or B.S. degree in the College of Arts and Sciences must complete 42 upper-division credit hours.	
Total Credit Hour Requirement	120
Some bachelor's degrees require students to complete more than 120 credit hours.	

## Kent Core Requirements

Kent Core Composition (KCMP)	6
Kent Core Mathematics and Critical Reasoning (KMCR)	3
Kent Core Humanities and Fine Arts (KHUM/KFA) (min one course each)	9
Kent Core Social Sciences (KSS) (must be from two disciplines)	6
Kent Core Basic Sciences (KBS/KLAB) (must include one laboratory)	6-7
Kent Core Additional (KADL)	6
<b>Total Credit Hours:</b>	<b>36-37</b>

## Program Requirements

### Major Requirements

Code	Title	Credit Hours
<b>Prerequisite Requirements <sup>1</sup></b>		
FR 13201	ELEMENTARY FRENCH I	
FR 13202	ELEMENTARY FRENCH II	
FR 23201	INTERMEDIATE FRENCH I	
FR 23202	INTERMEDIATE FRENCH II	
<b>Major Requirements (courses count in major GPA)</b>		
FR 33211	FRENCH CONVERSATION	3
FR 33212	FRENCH COMPOSITION	3
FR 33214	FRENCH COMPOSITION EXTENDED	2
FR 33215	FRENCH PHONETICS AND DICTION	3
FR 33421	FRENCH CIVILIZATION	3
MCLS 20001	GLOBAL LITERACY AND CULTURAL AWARENESS (KADL) <sup>3</sup>	3
or MCLS 20091	VARIABLE CONTENT SEMINAR IN GLOBAL LITERACY: CASE STUDIES	
or MCLS 30420	FOREIGN LANGUAGES AND CULTURE STUDIES	
French (FR) Upper Division Elective (30000 and 40000 levels)		3
French (FR) Upper Division Electives (40000 level)		6
French Theatre, Poetry or Prose Electives, choose from the following:		6
FR 33335	INTRODUCTION TO FRENCH THEATRE (ELR) (WIC) <sup>2</sup>	
FR 33336	INTRODUCTION TO FRENCH POETRY (ELR) (WIC) <sup>2</sup>	
FR 33337	INTRODUCTION TO FRENCH LITERARY PROSE (ELR) (WIC) <sup>2</sup>	

**Additional Requirements (courses do not count in major GPA)**

UC 10097	DESTINATION KENT STATE: FIRST YEAR EXPERIENCE	1
Kent Core Composition		6
Kent Core Mathematics and Critical Reasoning		3
Kent Core Humanities and Fine Arts (minimum one course from each)		9
Kent Core Social Sciences (must be from two disciplines)		6
Kent Core Basic Sciences (must include one laboratory)		6-7

Kent Core Additional	6
College General Requirement (must be from Kent Core Basic Sciences)	3
4	
College General Requirement (must be from Kent Core Social Science)	3
5	
General Electives (total credit hours depends on earning 120 credit hours, including 42 upper-division credit hours)	45
Minimum Total Credit Hours:	120

- Students who fulfill the language requirement in fewer than 14 credit hours as a result of starting their French studies in a course higher than FR 13201 will complete remaining credit hours with general electives. Many students begin their university studies with substantial proficiency in French and therefore, should begin their program of study with the first courses in the French major: FR 33211, FR 33212 and FR 33214. Other students may need to complete one or more of the prerequisite courses: FR 13201, FR 13202, FR 23201, FR 23202. Starting French studies in the appropriate course(s) is critical to on-time graduation. All students intending to major in French should contact a French faculty advisor in the department of Modern and Classical Language Studies for placement and advising information prior to enrolling in their first French course. Students entering the university with substantial knowledge of French should consider taking the College-Level Examination Program (CLEP) through which they may receive up to 14 credit hours of university credit. Students wishing to earn credit through CLEP should take the exam several weeks prior to enrolling in their first French course to ensure eligibility, timely granting of credits and timely placement into the correct French course(s).
- A minimum C grade must be earned to fulfill writing-intensive requirement.
- MCLS 20091 may be taken with French advisor's approval. French teaching licensure candidates completing the Education minor should take MCLS 30420.
- One additional course taken from the Kent Core Basic Science courses in the following Arts and Sciences disciplines: Anthropology (ANTH), Biological Sciences (BSCI), Chemistry (CHEM), Geography (GEOG), Geology (GEOL) or Physics (PHY). The course may not be from the student's major.
- One additional course taken from the Kent Core Social Sciences courses in the following Arts and Sciences disciplines: Anthropology (ANTH), Geography (GEOG), Criminology and Justice Studies (CRIM), Peace and Conflict Studies (PACS), Political Science (POL), Psychology (PSYC) or Sociology (SOC). The course may not be from the student's major.

## Graduation Requirements

Minimum Major GPA	Minimum Overall GPA
2.000	2.000

- All students in the French major must take the American Council on the Teaching of Foreign Languages (ACTFL) Oral Proficiency Interview, ACTFL Writing Proficiency Test and the French Outcomes Assessment Test, prior to being cleared for graduation. Information about the exams can be found on the ACTFL Website and the Language Testing International (LTI) website, the exclusive licensee of ACTFL.

## Program Note

- Some courses in the Department of Modern and Classical Language Studies are offered on a rotating basis, and course availability may change at any time. Visit the department's website for course offering projections and advising with course planning.

## Roadmap

This roadmap is a recommended semester-by-semester plan of study for this major. However, courses designated as critical (!) must be completed in the semester listed to ensure a timely graduation.

Semester One		Credits
FR 33211	FRENCH CONVERSATION	3
FR 33212	FRENCH COMPOSITION	3
FR 33214	FRENCH COMPOSITION EXTENDED	2
UC 10097	DESTINATION KENT STATE: FIRST YEAR EXPERIENCE	1
Kent Core Requirement		3
Kent Core Requirement		3
Credit Hours		15
Semester Two		Credits
FR 33215	FRENCH PHONETICS AND DICTION	3
MCLS 20001	GLOBAL LITERACY AND CULTURAL AWARENESS (KADL)	3
MCLS 20091	or VARIABLE CONTENT SEMINAR IN GLOBAL LITERACY: CASE STUDIES	
MCLS 30420	or FOREIGN LANGUAGES AND CULTURE STUDIES	
French Theatre, Poetry or Prose Elective		3
Kent Core Requirement		3
Kent Core Requirement		3
Credit Hours		15
Semester Three		Credits
FR 33421	FRENCH CIVILIZATION	3
French Theatre, Poetry or Prose Elective		3
Kent Core Requirement		3
General Electives		6
Credit Hours		15
Semester Four		Credits
French (FR) Upper Division Elective (30000 or 40000 level)		3
Kent Core Requirement		3
Kent Core Requirement		3
Kent Core Requirement		3
General Elective		3
Credit Hours		15
Semester Five		Credits
French (FR) Upper Division Elective (40000 level)		3
College General Requirement		3
General Electives		9
Credit Hours		15
Semester Six		Credits
French (FR) Upper Division Elective (40000 level)		3
College General Requirement		3
Kent Core Requirement		3
Kent Core Requirement		3
General Elective		3
Credit Hours		15

**Semester Seven**

General Electives	15
Credit Hours	15

**Semester Eight**

Note: ACTFL Oral Proficiency Interview, ACTFL Written Proficiency Test and Departmental Outcomes Assessment Test should be taken in this semester.

Kent Core Requirement	3
Kent Core Requirement	3
General Electives	9
Credit Hours	15
Minimum Total Credit Hours:	120

## French - M.A.

**College of Arts and Sciences**

Department of Modern and Classical Language Studies

109 Satterfield Hall

Kent Campus

330-672-2150

mcls@kent.edu

www.kent.edu/mcls

## Description

The Master of Arts degree in French provides an advanced education in French, which integrates the language, linguistics, literature and culture of France and the latest methodologies in the teaching of French.

The French major comprises the following concentrations:

- The **Applied Linguistics and Pedagogy** concentration is intended primarily for students who wish to teach in elementary and secondary schools or beginning and intermediate levels of post secondary study, and to increase their effectiveness as teachers.
- The **Literature** concentration is intended for those who wish to increase their knowledge of literature and culture along with their command of the language.

## Fully Offered At:

- Kent Campus

## Admission Requirements

- Bachelor's degree from an accredited college or university for unconditional admission
- Minimum 3.000 undergraduate GPA on a 4.000 point scale for unconditional admission
- Official transcript(s)
- Goal statement
- CD or MP3/wav file with a 5-10-minute oral sample in the applicant's first and second languages (conversational, not read from a script)
- Writing sample(s) in the applicant's second language, which should be accompanied by a signed declaration that the sample is original work and that the applicant received no help in its preparation. International applicants should also submit a writing sample in English
- Three letters of recommendation

- English language proficiency - all international students must provide proof of English language proficiency (unless they meet specific exceptions) by earning one of the following:
  - Minimum 550 TOEFL PBT score (paper-based version)
  - Minimum 79 TOEFL IBT score (Internet-based version)
  - Minimum 77 MELAB score
  - Minimum 6.5 IELTS score
  - Minimum 58 PTE score
  - Minimum 110 Duolingo English Test score

For more information about graduate admissions, please visit the Graduate Studies admission website. For more information on international admission, visit the Office of Global Education's admission website.

## Program Requirements

### Major Requirements

Code	Title	Credit Hours
<b>Major Requirements</b>		
FR 53213	FRENCH COMPOSITION-ADVANCED	3
FR 53216	CONTEMPORARY FRENCH CULTURE	3
<b>Concentrations</b>		
Choose from the following:		27-30
Applied Linguistics and Pedagogy		
Literature		
Minimum Total Credit Hours:		33-36

### Applied Linguistics and Pedagogy Concentration Requirements

Code	Title	Credit Hours
<b>Concentration Requirements</b>		
MCLS 50660	METHODS OF TEACHING FOREIGN LANGUAGES <sup>1</sup>	3
MCLS 60601	LINGUISTICS FOR THE LANGUAGE PROFESSIONS	3
MCLS 60698	SECOND LANGUAGE RESEARCH METHODS	3
Second Language Courses		12
Second Language Pedagogy Courses		9
Minimum Total Credit Hours:		30

<sup>1</sup> Students who are already licensed to teach language in Ohio may, with departmental approval, substitute a graduate second-language pedagogy elective for MCLS 50660.

### Literature Concentration Requirements

Code	Title	Credit Hours
<b>Concentration Requirements</b>		
FR 63199	THESIS I	6
Drama Elective		3
Poetry Elective		3
Prose Elective		3
French Literature, Culture and Language Electives <sup>1</sup>		12
Minimum Total Credit Hours:		27



<sup>1</sup> A maximum 6 credit hours of individual investigation research may be applied toward the degree.

## Graduation Requirements

- Students in the Applied Linguistics and Pedagogy concentration must successfully complete a final project, a portfolio or a comprehensive examination. In addition, students complete an exit oral interview and an exit essay examination in French. Students are encouraged to enroll in study-abroad courses (maximum 6 credit hours) and in specialized workshops in advanced language or pedagogy (maximum 4 credit hours). Departmental permission must be obtained before enrolling in such courses.
- Students in the Literature concentration must complete a comprehensive examination.

## French - Minor

### College of Arts and Sciences

Department of Modern and Classical Language Studies  
109 Satterfield Hall  
Kent Campus  
330-672-2150  
mcls@kent.edu  
www.kent.edu/mcls

## Description

The French minor gives students a sufficient command of the language, both written and spoken. Students are exposed to French literature and culture to be able to travel in France as more than just an interested and uninformed tourist.

### Fully Offered At:

- Kent Campus

## Admission Requirements

Admission to a minor is open to students declared in a bachelor's degree, the A.A.B. or A.A.S. degree or the A.T.S. degree (not Individualized Program major). Students declared only in the A.A. or A.S. degree or the A.T.S. degree in Individualized Program may not declare a minor. Students may not pursue a minor and a major in the same discipline.

## Minor Requirements

Code	Title	Credit Hours
<b>Prerequisite Requirements</b> <sup>1</sup>		
FR 13201	ELEMENTARY FRENCH I	
FR 13202	ELEMENTARY FRENCH II	
FR 23201	INTERMEDIATE FRENCH I	
FR 23202	INTERMEDIATE FRENCH II	
<b>Minor Requirements</b>		
FR 33211	FRENCH CONVERSATION	3
FR 33212	FRENCH COMPOSITION	3
FR 33214	FRENCH COMPOSITION EXTENDED	2
FR 33215	FRENCH PHONETICS AND DICTION	3
FR 33421	FRENCH CIVILIZATION	3

French Upper-Division Elective (FR 40000 level)	3
Minor Electives, choose from the following:	6
FR 33335	INTRODUCTION TO FRENCH THEATRE (ELR) (WIC)
FR 33336	INTRODUCTION TO FRENCH POETRY (ELR) (WIC)
FR 33337	INTRODUCTION TO FRENCH LITERARY PROSE (ELR) (WIC)
Minimum Total Credit Hours:	23

<sup>1</sup> Prerequisites may be satisfied with demonstrated language proficiency.

## Graduation Requirements

Minimum Minor GPA	Minimum Overall GPA
2.000	2.000

- Students must complete at least two upper-division (30000 or 40000 level) courses in the minor at Kent State on a graded basis (A-F).
- Minimum 6 credit hours in the minor must be upper-division coursework (30000 and 40000 level).
- Minimum 6 credit hours in the minor must be outside of the course requirements for any major or other minor the student is pursuing.
- Minimum 50 percent of the total credit hours for the minor must be taken at Kent State (in residence).

### Program Note:

- Some courses in the Department of Modern and Classical Language Studies are offered on a rotating basis, and course availability may change at any time. Visit the department's website for course offering projections and advising with course planning.

## German - B.A.

### College of Arts and Sciences

Department of Modern and Classical Language Studies  
109 Satterfield Hall  
Kent Campus  
330-672-2150  
mcls@kent.edu  
www.kent.edu/mcls

## Description

The Bachelor of Arts degree in German provides instruction designed to develop competence in oral and written communication; insights into language form, usage and meaning; and knowledge of German literature, cultural history and contemporary issues. Additionally, students will be introduced to basic skills in German-to-English translation.

The flexibility of the major makes it easy to combine with a second major, such as the History, International Relations or Political Science major or another foreign language major.

Students wishing to teach may combine the German major with the Education minor to prepare for multi-age (K-12) teacher licensure in Ohio.

## Fully Offered At:

- Kent Campus

## Admission Requirements

The university affirmatively strives to provide educational opportunities and access to students with varied backgrounds, those with special talents and adult students who graduated from high school three or more years ago.

**Freshman Students on the Kent Campus:** The freshman admission policy on the Kent Campus is selective. Admission decisions are based upon the following: cumulative grade point average, ACT and/or SAT scores, strength of high school college preparatory curriculum and grade trends. The Admissions Office at the Kent Campus may defer the admission of students who do not meet admissions criteria but who demonstrate areas of promise for successful college study. Deferred applicants may begin their college coursework at one of seven regional campuses of Kent State University. For more information on admissions, including additional requirements for some academic programs, visit the admissions website for new freshmen.

**Freshman Students on the Regional Campuses:** Kent State campuses at Ashtabula, East Liverpool, Geauga, Salem, Stark, Trumbull and Tuscarawas, as well as the Regional Academic Center in Twinsburg, have open enrollment admission for students who hold a high school diploma, GED or equivalent.

**English Language Proficiency Requirements for International Students:** All international students must provide proof of English language proficiency (unless they meet specific exceptions) by earning a minimum 525 TOEFL score (71 on the Internet-based version), minimum 75 MELAB score, minimum 6.0 IELTS score or minimum 48 PTE score, or by completing the ESL level 112 Intensive Program. For more information on international admission, visit the Office of Global Education's admission website.

**Transfer, Transitioning and Former Students:** For more information about admission criteria for transfer, transitioning and former students, please visit the admissions website.

## Program Learning Outcomes

Graduates of this program will be able to:

1. Perform language tasks at intermediate high and advanced low levels of proficiency as described by the American Council on the Teaching of Foreign Languages (ACTFL) Proficiency Guidelines. Proficiency, in ACTFL terms, is understood to describe a range of qualities rather than an absolute norm and will vary according to task type, language function, topic, skill (listening, speaking, reading, writing) and so forth.
2. Contribute to most informal and some formal conversations with sufficient accuracy, clarity and precision to convey their intended message without misrepresentation or confusion.
3. Read a wide variety of texts written for native speakers of German and not edited or adapted for non-native speakers.
4. Compose routine social correspondence and write cohesive summaries, narratives and descriptions of a factual nature in German.
5. Demonstrate an historical knowledge of German history and culture and understand the diverse nature of culture throughout the ages.
6. Discuss cultural differences, distinguishing between fact, opinion and stereotypes.

7. Communicate effectively and sensitively to diverse ethnic and cultural groups.
8. View concepts, issues, events and themes from the perspectives of diverse ethnic and cultural groups.
9. Esteem diversity.
10. Maintain an ongoing assessment of their own cultural values and behaviors.

## University Requirements

All students in a bachelor's degree program at Kent State University must complete the following university requirements for graduation.

**NOTE:** University requirements may be fulfilled in this program by specific course requirements. Please see Program Requirements for details.

Destination Kent State: First Year Experience	1
Course is not required for students with 25 transfer credits, excluding College Credit Plus, or age 21+ at time of admission.	
Diversity Domestic/Global (DIVD/DIVG)	2 courses
Students must successfully complete one domestic and one global course, of which one must be from the Kent Core.	
Experiential Learning Requirement (ELR)	varies
Students must successfully complete one course or approved experience.	
Kent Core (see table below)	36-37
Writing-Intensive Course (WIC)	1 course
Students must earn a minimum C grade in the course.	
Upper-Division Requirement	39 (or 42)
Students must successfully complete 39 upper-division (numbered 30000 to 49999) credit hours to graduate. Students in a B.A. and/or B.S. degree in the College of Arts and Sciences must complete 42 upper-division credit hours.	
Total Credit Hour Requirement	120
Some bachelor's degrees require students to complete more than 120 credit hours.	

## Kent Core Requirements

Kent Core Composition (KCOMP)	6
Kent Core Mathematics and Critical Reasoning (KMCR)	3
Kent Core Humanities and Fine Arts (KHUM/KFA) (min one course each)	9
Kent Core Social Sciences (KSS) (must be from two disciplines)	6
Kent Core Basic Sciences (KBS/KLAB) (must include one laboratory)	6-7
Kent Core Additional (KADL)	6
<b>Total Credit Hours:</b>	<b>36-37</b>

## Program Requirements

### Major Requirements

Code	Title	Credit Hours
<b>Prerequisite Requirements <sup>1</sup></b>		
GER 11201	ELEMENTARY GERMAN I	
GER 11202	ELEMENTARY GERMAN II	
GER 21201	INTERMEDIATE GERMAN I	
GER 21202	INTERMEDIATE GERMAN II	
<b>Major Requirements (courses count in major GPA)</b>		

GER 31201	INTENSIVE GERMAN GRAMMAR	3
GER 31211	GERMAN COMPOSITION AND CONVERSATION	3
GER 31231	TRANSLATION PRACTICE: GERMAN	1
GER 31240	CONVERSATION FOR BUSINESS AND SPECIAL PURPOSES: GERMAN	3
or GER 41240	BUSINESS AND SPECIAL TEXTS: GERMAN	
GER 31303	INTRODUCTION TO GERMAN LITERATURE	3
GER 31421	GERMAN CIVILIZATION	3
GER 41211	ADVANCED GERMAN COMPOSITION AND CONVERSATION	3
GER 41216	CONTEMPORARY GERMAN CULTURE (ELR) (WIC) <sup>2</sup>	3
MCLS 21417	MULTICULTURALISM IN TODAY'S GERMANY (DIVG)	3
or TRST 30230	APPROACHES TO TRANSLATION	
German (GER) Upper-Division Electives (30000 or 40000 levels)		6
<b>Additional Requirements (courses do not count in major GPA)</b>		
UC 10097	DESTINATION KENT STATE: FIRST YEAR EXPERIENCE	1
Kent Core Composition		6
Kent Core Mathematics and Critical Reasoning		3
Kent Core Humanities and Fine Arts (minimum one course from each)		9
Kent Core Social Sciences (must be from two disciplines)		6
Kent Core Basic Sciences (must include one laboratory)		6-7
Kent Core Additional		6
College General Requirements (must be from Kent Core Basic Sciences) <sup>3</sup>		3
College General Requirements (must be Kent Core Social Sciences) <sup>4</sup>		3
General Electives (total credit hours depends on earning 120 credit hours, including 42 upper-division credit hours)		46
Minimum Total Credit Hours:		120

<sup>1</sup> Students who already have some proficiency in German through high school study should take the German Placement Test prior to their first advising appointment so they can enroll in the correct course(s). Students who have completed three or four years of high school German should see a German advisor for placement. Students lacking in sufficient proficiency for the first major courses (GER 31201 and GER 31211) can reach it by taking courses in the prerequisite sequence (GER 11201, GER 11202, GER 21201 and GER 21202) based on their placement score and high school training.

<sup>2</sup> A minimum C grade must be earned to fulfill the writing-intensive requirement.

<sup>3</sup> One additional course taken from the Kent Core Basic Science courses in the following Arts and Sciences disciplines: Anthropology (ANTH), Biological Sciences (BSCI), Chemistry (CHEM), Geography (GEOG), Geology (GEOL) or Physics (PHY). The course may not be from the student's major.

<sup>4</sup> One additional course taken from the Kent Core Social Sciences courses in the following Arts and Sciences disciplines: Anthropology (ANTH), Geography (GEOG), Criminology and Justice Studies (CRIM), Peace and Conflict Studies (PACS), Political Science (POL), Psychology (PSYC) or Sociology (SOC). The course may not be from the student's major.

### Graduation Requirements

Minimum Major GPA	Minimum Overall GPA
2.000	2.000

- All students in the German major must take the American Council on the Teaching of Foreign Languages (ACTFL) Oral Proficiency Interview, ACTFL Writing Proficiency Test and the German Outcomes Assessment Test, prior to being cleared for graduation. Information about the exams can be found on the ACTFL Website and the Language Testing International (LTI) website, the exclusive licensee of ACTFL.

### PROGRAM NOTE

- Some courses in the Department of Modern and Classical Language Studies are offered on a rotating basis, and course availability may change at any time. Visit the department's website for course offering projections and advising with course planning.

### Roadmap

This roadmap is a recommended semester-by-semester plan of study for this major. However, courses designated as critical (!) must be completed in the semester listed to ensure a timely graduation.

Semester One			Credits
MCLS 21417	MULTICULTURALISM IN TODAY'S GERMANY	3	
or	(DIVG)		
TRST 30230	or APPROACHES TO TRANSLATION		
UC 10097	DESTINATION KENT STATE: FIRST YEAR EXPERIENCE	1	
Kent Core Requirement			3
Kent Core Requirement			3
Kent Core Requirement			3
General Elective			3
Credit Hours			16
Semester Two			
Kent Core Requirement			3
Kent Core Requirement			3
Kent Core Requirement			3
General Electives			6
Credit Hours			15
Semester Three			
!	GER 31211	GERMAN COMPOSITION AND CONVERSATION	3
Kent Core Requirement			3
General Electives			9
Credit Hours			15
Semester Four			
!	GER 31303	INTRODUCTION TO GERMAN LITERATURE	3
German Business Course or Upper-Division Elective			3
College General Requirement			3
College General Requirement			3
General Elective			3
Credit Hours			15
Semester Five			
!	GER 31201	INTENSIVE GERMAN GRAMMAR	3
!	GER 31231	TRANSLATION PRACTICE: GERMAN	1
!	GER 41211	ADVANCED GERMAN COMPOSITION AND CONVERSATION	3
Kent Core Requirement			3
Kent Core Requirement			3
General Elective			2
Credit Hours			15

Semester Six			
!	GER 31421	GERMAN CIVILIZATION	3
	GER 41216	CONTEMPORARY GERMAN CULTURE (ELR) (WIC)	3
	Kent Core Requirement		3
	General Electives		6
	Credit Hours		15
Semester Seven			
	German Business Course or Upper-Division Elective		3
	Kent Core Requirement		3
	General Electives		9
	Credit Hours		15
Semester Eight			
	Note: ACTFL Oral Proficiency Interview, ACTFL Written Proficiency Test and Departmental Outcomes Assessment Test should be taken in this semester.		
	German Business Course or Upper-Division Elective		3
	Kent Core Requirement		3
	General Electives		8
	Credit Hours		14
	Minimum Total Credit Hours:		120

## German - M.A.

### College of Arts and Sciences

Department of Modern and Classical Language Studies  
109 Satterfield Hall  
Kent Campus  
330-672-2150  
mcls@kent.edu  
www.kent.edu/mcls

## Description

The Master of Arts degree in German provides advanced education in German with emphasis on language, linguistics, literature and cultures and the latest methodologies in the teaching of German.

The German major comprises the following concentrations:

- The **Applied Linguistics and Pedagogy** concentration is intended primarily for those who are currently teaching in (or wish to teach in) elementary and secondary schools, and for those who wish to increase their effectiveness as teachers.
- The **Literature** concentration is intended for those who wish to pursue a doctorate in German literature and culture or simply increase their knowledge of German literature and culture along with their command of the German language.

### Fully Offered At:

- Kent Campus

## Admission Requirements

- Bachelor's degree from an accredited college or university for unconditional admission
- Minimum 3.000 undergraduate GPA on a 4.000 point scale for unconditional admission
- Official transcript(s)

- Goal statement
- A CD or MP3/wav file with a 5-10-minute oral sample in the applicant's first and second languages (conversational, not read from a script)
- Writing sample(s) in the applicant's second language, which should be accompanied by a signed declaration that the sample is original work and that the applicant received no help in its preparation. International applicants should also submit a writing sample in English
- Three letters of recommendation
- English language proficiency - all international students must provide proof of English language proficiency (unless they meet specific exceptions) by earning one of the following:
  - Minimum 550 TOEFL PBT score (paper-based version)
  - Minimum 79 TOEFL IBT score (Internet-based version)
  - Minimum 77 MELAB score
  - Minimum 6.5 IELTS score
  - Minimum 58 PTE score
  - Minimum 110 Duolingo English Test score

For more information about graduate admissions, please visit the Graduate Studies admission website. For more information on international admission, visit the Office of Global Education's admission website.

## Program Requirements

### Major Requirements

Code	Title	Credit Hours
<b>Major Requirements</b>		
GER 51212	STYLISTICS	3
	Elective	3
<b>Concentrations</b>		
	Choose from the following:	27-30
	Applied Linguistics and Pedagogy	
	Literature	
Minimum Total Credit Hours:		33-36

### Applied Linguistics and Pedagogy Concentration Requirements

Code	Title	Credit Hours
<b>Concentration Requirements</b>		
GER 51216	CONTEMPORARY GERMAN CULTURE	3
MCLS 50660	METHODS OF TEACHING FOREIGN LANGUAGES <sup>1</sup>	3
MCLS 60601	LINGUISTICS FOR THE LANGUAGE PROFESSIONS	3
MCLS 60661	THEORIES IN SECOND LANGUAGE ACQUISITION	3
MCLS 60698	SECOND LANGUAGE RESEARCH METHODS	3
	Second Language Courses	9
	Literature and Culture/Civilization Electives	6
Minimum Total Credit Hours:		30

<sup>1</sup> Students who are already licensed to teach language in Ohio may, with departmental approval, substitute a graduate second-language pedagogy elective for MCLS 50660.

## Literature Concentration Requirements

Code	Title	Credit Hours
<b>Concentration Requirements</b>		
GER 61001	GRADUATE RESEARCH AND WRITING IN GERMAN	3
GER 61199	THESIS I <sup>1</sup>	6
Electives <sup>2</sup>		18
Minimum Total Credit Hours:		27

<sup>1</sup> Students who anticipate enrolling in a Ph.D. program elsewhere after completing the M.A. are urged to write a thesis. Students who write a thesis must pass a modified comprehensive examination.

<sup>2</sup> A maximum 6 credit hours of individual investigation research may be applied toward the degree.

## Graduation Requirements

- Students in the Applied Linguistics and Pedagogy concentration must successfully complete a final project, a portfolio or a comprehensive examination. In addition, students complete an exit oral interview and an exit essay examination in German. Students are encouraged to enroll in study-abroad courses (maximum 6 credit hours) and in specialized workshops in advanced language or pedagogy (maximum 4 credit hours). Departmental permission must be obtained before enrolling in such programs.
- Students in the Literature concentration must successfully complete a comprehensive examination.

## German - Minor

### College of Arts and Sciences

Department of Modern and Classical Language Studies  
109 Satterfield Hall  
Kent Campus  
330-672-2150  
mcls@kent.edu  
www.kent.edu/mcls

## Description

The German minor studies the German language, culture and literature and can be combined easily with numerous majors.

### Fully Offered At:

- Kent Campus

## Admission Requirements

Admission to a minor is open to students declared in a bachelor's degree, the A.A.B. or A.A.S. degree or the A.T.S. degree (not Individualized Program major). Students declared only in the A.A. or A.S. degree or the A.T.S. degree in Individualized Program may not declare a minor. Students may not pursue a minor and a major in the same discipline.

## Minor Requirements

Code	Title	Credit Hours
<b>Prerequisite Requirements <sup>1</sup></b>		
GER 11201	ELEMENTARY GERMAN I	
GER 11202	ELEMENTARY GERMAN II	
GER 21201	INTERMEDIATE GERMAN I	
GER 21202	INTERMEDIATE GERMAN II	
<b>Minor Requirements</b>		
GER 31201	INTENSIVE GERMAN GRAMMAR	3
GER 31211	GERMAN COMPOSITION AND CONVERSATION	3
GER 31303	INTRODUCTION TO GERMAN LITERATURE	3
GER 31421	GERMAN CIVILIZATION	3
German Culture and Literature Upper-Division Electives (GER 30000 and 40000 levels)		6
Minimum Total Credit Hours:		18

<sup>1</sup> Prerequisites may be satisfied with demonstrated language proficiency.

## Graduation Requirements

Minimum Minor GPA	Minimum Overall GPA
2.000	2.000

- Students must complete at least two upper-division (30000 or 40000 level) courses in the minor at Kent State on a graded basis (A-F).
- Minimum 6 credit hours in the minor must be upper-division coursework (30000 and 40000 level).
- Minimum 6 credit hours in the minor must be outside of the course requirements for any major or other minor the student is pursuing.
- Minimum 50 percent of the total credit hours for the minor must be taken at Kent State (in residence).

## Program Note

- Some courses in the Department of Modern and Classical Language Studies are offered on a rotating basis, and course availability may change at any time. Visit the department's website for course offering projections and advising with course planning.

## German Studies - Minor

### College of Arts and Sciences

Department of Modern and Classical Language Studies  
109 Satterfield Hall  
Kent Campus  
330-672-2150  
mcls@kent.edu  
www.kent.edu/mcls

## Description

The German Studies minor offers students the opportunity for study of the language and culture of the German-speaking countries.



**Fully Offered At:**

- Kent Campus

**Admission Requirements**

Admission to a minor is open to students declared in a bachelor's degree, the A.A.B. or A.A.S. degree or the A.T.S. degree (not Individualized Program major). Students declared only in the A.A. or A.S. degree or the A.T.S. degree in Individualized Program may not declare a minor. Students may not pursue a minor and a major in the same discipline.

**Minor Requirements**

Code	Title	Credit Hours
<b>Minor Requirements</b>		
GER 31211	GERMAN COMPOSITION AND CONVERSATION	3
GER 31303	INTRODUCTION TO GERMAN LITERATURE	3
GER 31421	GERMAN CIVILIZATION	3
German Literature or Culture Upper-Division Elective (GER 30000 or 40000 level)		3
German History and Thought Electives		6
HIST 41041	HISTORY OF GERMANY, 1871-PRESENT	
PHIL 31005	GERMAN CRITICAL PHILOSOPHY (WIC)	
PHIL 31006	NINETEENTH-CENTURY PHILOSOPHY (WIC)	
Minimum Total Credit Hours:		18

**Graduation Requirements**

Minimum Minor GPA	Minimum Overall GPA
2.000	2.000

- Students must complete at least two upper-division (30000 or 40000 level) courses in the minor at Kent State on a graded basis (A-F).
- Minimum 6 credit hours in the minor must be upper-division coursework (30000 and 40000 level).
- Minimum 6 credit hours in the minor must be outside of the course requirements for any major or other minor the student is pursuing.
- Minimum 50 percent of the total credit hours for the minor must be taken at Kent State (in residence).

**Program Notes**

- Appropriate specialized offerings may be substituted above as available with approval of the German Studies program coordinator.
- Some courses in the Department of Modern and Classical Language Studies are offered on a rotating basis, and course availability may change at any time. Visit the department's website for course offering projections and advising with course planning.

**Greek - Minor****College of Arts and Sciences**

Department of Modern and Classical Language Studies  
109 Satterfield Hall  
Kent Campus  
330-672-2150  
mcls@kent.edu  
www.kent.edu/mcls

**Description**

The Greek minor is for students who wish to gain expertise in classical Greek and ancient culture beyond the Intermediate II level. Students gain proficiency in Greek and take courses in ancient Greek culture, history and archaeology.

**Fully Offered At:**

- Kent Campus

**Admission Requirements**

Admission to a minor is open to students declared in a bachelor's degree, the A.A.B. or A.A.S. degree or the A.T.S. degree (not Individualized Program major). Students declared only in the A.A. or A.S. degree or the A.T.S. degree in Individualized Program may not declare a minor. Students may not pursue a minor and a major in the same discipline.

**Minor Requirements**

Code	Title	Credit Hours
<b>Prerequisite Requirements</b> <sup>1</sup>		
GRE 14201	ELEMENTARY CLASSICAL GREEK I	
GRE 14202	ELEMENTARY CLASSICAL GREEK II	
<b>Minor Requirements</b>		
GRE 24201	INTERMEDIATE CLASSICAL GREEK I:READINGS	3
GRE 24202	INTERMEDIATE CLASSICAL GREEK II:READINGS	3
GRE 34372	ADVANCED READINGS IN GREEK	3
Classical Culture Electives, choose from the following:		3
Classics (CLAS) Upper-Division Electives (30000 or 40000 level)		
Greek (GRE) Upper-Division Electives (30000 or 40000 level)		
Greek Culture Electives, choose from the following:		3
MCLS 30420	FOREIGN LANGUAGES AND CULTURE STUDIES	
Classics (CLAS) Upper-Division Electives (20000, 30000 or 40000 level)		
Greek (GRE) Upper-Division Elective (30000 or 40000 level)		
Minimum Total Credit Hours:		15

<sup>1</sup> Prerequisites may be satisfied with demonstrated language proficiency.

**Graduation Requirements**

Minimum Minor GPA	Minimum Overall GPA
2.000	2.000

- Students must complete at least two upper-division (30000 or 40000 level) courses in the minor at Kent State on a graded basis (A-F).
- Minimum 6 credit hours in the minor must be upper-division coursework (30000 and 40000 level).
- Minimum 6 credit hours in the minor must be outside of the course requirements for any major or other minor the student is pursuing.
- Minimum 50 percent of the total credit hours for the minor must be taken at Kent State (in residence).

## Program Note

- Some courses in the Department of Modern and Classical Languages are offered on a rotating basis. Rotations and course availability may change at any time. Please visit the department's website for course offering projections and advising with course planning.

## Italian - Minor

### College of Arts and Sciences

Department of Modern and Classical Language Studies

109 Satterfield Hall

Kent Campus

330-672-2150

mcls@kent.edu

www.kent.edu/mcls

## Description

The Italian minor is designed for students who wish to speak, read and write in Italian. Required coursework provides a strong grammar foundation and guides students through further development of listening, reading, writing and conversational skills. Students are also introduced to Italian civilization and culture through history, literature and conversation classes conducted in Italian, with opportunities for additional exploration of Italian cultural topics through electives offered in English.

Students may complete coursework for the minor through Kent State's Florence program in Florence, Italy.

### Fully Offered At:

- Kent Campus

## Admission Requirements

Admission to a minor is open to students declared in a bachelor's degree, the A.A.B. or A.A.S. degree or the A.T.S. degree (not Individualized Program major). Students declared only in the A.A. or A.S. degree or the A.T.S. degree in Individualized Program may not declare a minor. Students may not pursue a minor and a major in the same discipline.

## Minor Requirements

Code	Title	Credit Hours
<b>Prerequisite Requirements</b> <sup>1</sup>		
ITAL 15201	ELEMENTARY ITALIAN I	
ITAL 15202	ELEMENTARY ITALIAN II	
ITAL 25201	INTERMEDIATE ITALIAN I	
<b>Minor Requirements</b>		
ITAL 25202	INTERMEDIATE ITALIAN II	3
ITAL 35211	COMPOSITION AND CONVERSATION: CONTEMPORARY ITALIAN SOCIETY	3
ITAL 35213	COMPOSITION AND CONVERSATION: MEDIA AND INFORMATION IN ITALY	3
Italian (ITAL) Electives, choose two from the following:		6
ITAL 35331	EARLY ITALIAN LITERATURE	
or ITAL 35332	RECENT ITALIAN LITERATURE (ELR)	
or ITAL 35421	ITALIAN CIVILIZATION	
Minor Electives, choose from the following:		3
ARTH 42032	ROMAN ARCHAEOLOGY AND ART	

or CLAS 41402	ROMAN ARCHAEOLOGY AND ART
ARTH 42041	ITALIAN RENAISSANCE ART
ARTH 42043	THE HIGH RENAISSANCE AND MANNERISM IN ITALY
ARTH 42044	VENETIAN RENAISSANCE ART
ARTH 42046	BAROQUE ART OF THE 17TH CENTURY
CLAS 41006	ROMAN HISTORY
or HIST 41006	ROMAN HISTORY
FDM 35901	ITALIAN FASHION AND CULTURE
Italian (ITAL) Upper-Division Electives (30000 or 40000 level)	
Minimum Total Credit Hours:	18

- <sup>1</sup> Prerequisites may be satisfied with demonstrated language proficiency.

## Graduation Requirements

Minimum Minor GPA	Minimum Overall GPA
2.000	2.000

- Students must complete at least two upper-division (30000 or 40000 level) courses in the minor at Kent State on a graded basis (A-F).
- Minimum 6 credit hours in the minor must be upper-division coursework (30000 and 40000 level).
- Minimum 6 credit hours in the minor must be outside of the course requirements for any major or other minor the student is pursuing.
- Minimum 50 percent of the total credit hours for the minor must be taken at Kent State (in residence).

## Program Note

- Some courses in the Department of Modern and Classical Language Studies are offered on a rotating basis, and course availability may change at any time. Visit the department's website for course offering projections and advising with course planning.

## Italian Studies - Minor

### College of Arts and Sciences

Department of Modern and Classical Language Studies

109 Satterfield Hall

Kent Campus

330-672-2150

mcls@kent.edu

www.kent.edu/mcls

## Description

The Italian Studies minor is an interdisciplinary program in the language, literature, history, theater, music and art of Italy. Students are introduced to Italian civilization and culture from the Romans to the present, with a focus on a wide range of various subjects across multiple disciplines.

Students are encouraged to study abroad through Kent State's Florence program in Florence, Italy.

### Fully Offered At:

- Kent Campus

## Admission Requirements

Admission to a minor is open to students declared in a bachelor's degree, the A.A.B. or A.A.S. degree or the A.T.S. degree (not Individualized Program major). Students declared only in the A.A. or A.S. degree or the A.T.S. degree in Individualized Program may not declare a minor. Students may not pursue a minor and a major in the same discipline.

## Minor Requirements

Code	Title	Credit Hours
<b>Minor Requirements</b>		
Minor Electives, choose from the following: <sup>1</sup>		18
ARTH 42041	ITALIAN RENAISSANCE ART	
ARTH 42043	THE HIGH RENAISSANCE AND MANNERISM IN ITALY	
ARTH 42044	VENETIAN RENAISSANCE ART	
ARTH 42046	BAROQUE ART OF THE 17TH CENTURY	
ARTH 42091	ART HISTORY SEMINAR <sup>2</sup>	
CLAS 21405	THE ROMAN ACHIEVEMENT (DIVG) (KHUM)	
FDM 35901	ITALIAN FASHION AND CULTURE	
HIST 31032	SEVENTEENTH-CENTURY EUROPE	
HIST 41020	NINETEENTH-CENTURY EUROPE	
ITAL 25201	INTERMEDIATE ITALIAN I	
ITAL 25202	INTERMEDIATE ITALIAN II	
Italian Upper-Division Electives (ITAL 30000 or 40000 level)		
Minimum Total Credit Hours:		18

<sup>1</sup> Special topics courses and courses taken through Kent State's Florence program may be included with the permission of the director of the Italian Studies minor.

<sup>2</sup> ARTH 42091 is a variable topic seminar. Other art history seminar topics related to Italy or Italian art may be used to fulfill minor requirements with the permission of the director of the Italian Studies minor.

## Graduation Requirements

Minimum Minor GPA	Minimum Overall GPA
2.000	2.000

- Students must complete at least two upper-division (30000 or 40000 level) courses in the minor at Kent State on a graded basis (A-F).
- Minimum 6 credit hours in the minor must be upper-division coursework (30000 and 40000 level).
- Minimum 6 credit hours in the minor must be outside of the course requirements for any major or other minor the student is pursuing.
- Minimum 50 percent of the total credit hours for the minor must be taken at Kent State (in residence).

## Program Note

- Some courses in the Department of Modern and Classical Language Studies are offered on a rotating basis, and course availability may change at any time. Visit the department's website for course offering projections and advising with course planning.

## Japanese - Minor

### College of Arts and Sciences

Department of Modern and Classical Language Studies  
109 Satterfield Hall  
Kent Campus  
330-672-2150  
mcls@kent.edu  
www.kent.edu/mcls

## Description

The Japanese minor provides a solid grounding in the Japanese language through challenging coursework in the four skills of speaking, listening, reading and writing. The curriculum allows students to explore different aspects of traditional and contemporary culture and society in Japan

### Fully Offered At:

- Kent Campus

## Admission Requirements

Admission to a minor is open to students declared in a bachelor's degree, the A.A.B. or A.A.S. degree or the A.T.S. degree (not Individualized Program major). Students declared only in the A.A. or A.S. degree or the A.T.S. degree in Individualized Program may not declare a minor. Students may not pursue a minor and a major in the same discipline.

## Minor Requirements

Code	Title	Credit Hours
<b>Prerequisite Requirements</b> <sup>1</sup>		
JAPN 15101	ELEMENTARY JAPANESE I	
JAPN 15102	ELEMENTARY JAPANESE II	
JAPN 25201	INTERMEDIATE JAPANESE I	
JAPN 25202	INTERMEDIATE JAPANESE II	
<b>Minor Requirements</b>		
JAPN 35101	INTENSIVE JAPANESE GRAMMAR	3
JAPN 35325	READINGS IN MODERN JAPANESE	3
JAPN 35326	READINGS IN TRADITIONAL JAPANESE	3
JAPN 45211	WRITING IN JAPANESE	3
JAPN 45212	ORAL COMMUNICATION IN JAPANESE	3
Minor Electives, choose from the following:		6
GEOG 37070	GEOGRAPHY OF EAST AND SOUTHEAST ASIA (DIVG)	
HIST 31113	HISTORY OF JAPAN	
JAPN 45301	BUSINESS JAPANESE	
JAPN 45411	VOICES FROM JAPAN	
JAPN 45421	JAPANESE CULTURE	
JAPN 45591	VARIABLE TOPIC SEMINAR IN JAPANESE	
MUS 42151	ASIAN MUSICS	
POL 30530	ASIAN POLITICS (DIVG)	
Minimum Total Credit Hours:		21

<sup>1</sup> Prerequisites may be satisfied with demonstrated language proficiency.

## Graduation Requirements

Minimum Minor GPA	Minimum Overall GPA
2.000	2.000

- Students must complete at least two upper-division (30000 or 40000 level) courses in the minor at Kent State on a graded basis (A-F).
- Minimum 6 credit hours in the minor must be upper-division coursework (30000 and 40000 level).
- Minimum 6 credit hours in the minor must be outside of the course requirements for any major or other minor the student is pursuing.
- Minimum 50 percent of the total credit hours for the minor must be taken at Kent State (in residence).

## Program Note

- Some courses in the Department of Modern and Classical Language Studies are offered on a rotating basis, and course availability may change at any time. Visit the department's website for course offering projections and advising with course planning.

## Latin - M.A.

### College of Arts and Sciences

Department of Modern and Classical Language Studies  
109 Satterfield Hall  
Kent Campus  
330-672-2150  
mcls@kent.edu  
www.kent.edu/mcls

## Description

The Master of Arts degree in Latin provides advanced coursework in Latin literature and the history and culture of the Roman civilization.

The Latin major comprises the following concentrations:

- The **Applied Linguistics and Pedagogy** concentration is designed for students already certified to teach Latin and classics in elementary and secondary schools and who wish to increase their language proficiency and effectiveness as teachers.
- The **Literature** concentration is designed for those who anticipate continuing their studies beyond the master's degree level, who plan to teach Latin and classics at the college or post-secondary level, and who wish to pursue scholarly research in classical studies.

## Fully Offered At:

- Online (Literature concentration only)
- Kent Campus (Applied Linguistics and Pedagogy concentration only - hybrid online/on-ground)

## Admission Requirements

- Bachelor's degree from an accredited college or university for unconditional admission
- Minimum 3.000 undergraduate GPA on a 4.000 point scale for unconditional admission
- Official transcript(s)

- Goal statement
- Research paper or essay in English (5-10 pages), which should be accompanied by a signed declaration that the sample is original work and that the applicant received no help in its preparation
- Three letters of recommendation
- English language proficiency - all international students must provide proof of English language proficiency (unless they meet specific exceptions) by earning one of the following:
  - Minimum 550 TOEFL PBT score (paper-based version)
  - Minimum 79 TOEFL IBT score (Internet-based version)
  - Minimum 77 MELAB score
  - Minimum 6.5 IELTS score
  - Minimum 58 PTE score
  - Minimum 110 Duolingo English Test score

For more information about graduate admissions, please visit the Graduate Studies admission website. For more information on international admission, visit the Office of Global Education's admission website.

## Program Learning Outcomes

Graduates of the Applied Linguistics and Pedagogy concentration will be able to:

1. Demonstrate skills in the analysis of Latin literature.
2. Read Latin proficiently and demonstrate general knowledge of the literature, history and culture of Roman civilization.
3. Demonstrate theoretical knowledge of second language acquisition and linguistics.
4. Demonstrate theoretical knowledge and applied skills in the teaching and assessment of outcomes for second language learners.

Graduates of the Literature concentration will be able to:

1. Demonstrate skills in Latin composition, Latin comprehension, the analysis of Latin literature and understanding of the Roman cultural context within which Latin literature was produced.
2. Read Latin proficiently and demonstrate general knowledge of the literature, history and culture of Roman civilization.
3. Demonstrate the ability to distinguish between ancient and modern cultural values, recognize historical biases and use primary source materials to better understand the culture of ancient Rome.

## Program Requirements

### Major Requirements

Code	Title	Credit Hours
<b>Major Requirements</b>		
CLAS 51006	ROMAN HISTORY	3
CLAS 51402	ROMAN ARCHAEOLOGY AND ART	3
LAT 61001	RESEARCH AND WRITING	3
LAT 66211	ADVANCED PROSE COMPOSITION	3
Major Electives, choose from the following: 6		
CLAS 61404	ANCIENT CHRISTIANITIES	
CLAS 66398	RESEARCH	
LAT 61214	LATIN EPIGRAPHY	
LAT 66391	SEMINAR IN CLASSICAL LITERATURE	

Other approved 60000-level courses, including MCLS courses

Concentrations	
Choose from the following:	18
Applied Linguistics and Pedagogy	
Literature	

Minimum Total Credit Hours: 36

## Applied Linguistics and Pedagogy Concentration

Code	Title	Credit Hours
<b>Concentration Requirements</b>		
MCLS 60622	TEACHING LITERATURE AND CULTURE	3
MCLS 60661	THEORIES IN SECOND LANGUAGE ACQUISITION	3
MCLS 60663	SECOND LANGUAGE CURRICULUM AND TESTING	3
MCLS 60698	SECOND LANGUAGE RESEARCH METHODS	3
Second Language Pedagogy Electives		6
Minimum Total Credit Hours:		18

## Literature Concentration

Code	Title	Credit Hours
<b>Concentration Requirements</b>		
LAT 66199	THESIS I	6
or LAT 66398	RESEARCH	
Latin Language and Literature Electives <sup>1</sup>		12
Minimum Total Credit Hours:		18

<sup>1</sup> Any Latin (LAT) course

## Graduation Requirements

- Students in the Applied Linguistics and Pedagogy concentration must successfully complete a final project, a portfolio or a comprehensive examination. In addition, students must complete an exit oral interview and an exit essay examination.
- Students in the Literature concentration must successfully complete a thesis or final project. Students are encouraged to enroll (with departmental permission) in study-abroad programs (maximum 6 credit hours) and in specialized workshops in advanced language or pedagogy (maximum 4 credit hours).

## Latin - Minor

### College of Arts and Sciences

Department of Modern and Classical Language Studies  
109 Satterfield Hall  
Kent Campus  
330-672-2150  
mcls@kent.edu  
www.kent.edu/mcls

The Latin minor allows students to gain expertise in Latin and ancient culture beyond the Intermediate II level. Students obtain proficiency in Latin and take courses in Roman culture, history and archaeology.

## Fully Offered At:

- Kent Campus

## Admission Requirements

Admission to a minor is open to students declared in a bachelor's degree, the A.A.B. or A.A.S. degree or the A.T.S. degree (not Individualized Program major). Students declared only in the A.A. or A.S. degree or the A.T.S. degree in Individualized Program may not declare a minor. Students may not pursue a minor and a major in the same discipline.

## Minor Requirements

Code	Title	Credit Hours
<b>Prerequisite Requirements <sup>1</sup></b>		
LAT 16201	ELEMENTARY LATIN I	
LAT 16202	ELEMENTARY LATIN II	
<b>Minor Requirements</b>		
LAT 26201	INTERMEDIATE LATIN I: READINGS	3
LAT 26202	INTERMEDIATE LATIN II: READINGS	3
LAT 36172	ADVANCED READINGS IN LATIN	3
Classical Culture Electives, choose from the following:		3
Classics (CLAS) Upper-Division Electives (30000 or 40000 level)		
Latin (LAT) Upper-Division Electives (30000 or 40000 level)		
Latin Culture Electives, choose from the following:		3
MCLS 30420	FOREIGN LANGUAGES AND CULTURE STUDIES	
Classics (CLAS) Electives (20000, 30000 or 40000 level)		
Latin Upper-Division Electives (LAT 30000 or 40000 level)		
Minimum Total Credit Hours:		15

<sup>1</sup> Prerequisites may be satisfied with demonstrated language proficiency.

## Graduation Requirements

Minimum Minor GPA	Minimum Overall GPA
2.000	2.000

- Students must complete at least two upper-division (30000 or 40000 level) courses in the minor at Kent State on a graded basis (A-F).
- Minimum 6 credit hours in the minor must be upper-division coursework (30000 and 40000 level).
- Minimum 6 credit hours in the minor must be outside of the course requirements for any major or other minor the student is pursuing.
- Minimum 50 percent of the total credit hours for the minor must be taken at Kent State (in residence).

## Program Note

Some courses in the Department of Modern and Classical Language Studies are offered on a rotating basis, and course availability may change at any time. Visit the department's website for course offering projections and advising with course planning.

## Russian - Minor

### College of Arts and Sciences

Department of Modern and Classical Language Studies  
109 Satterfield Hall



Kent Campus  
330-672-2150  
mcls@kent.edu  
www.kent.edu/mcls

## Description

The Russian minor offers a solid grounding in both spoken and written Russian, in addition to a broad-based understanding of Russian literature and culture. By cultivating linguistic proficiency and cultural literacy, as well as a greater appreciation for the diverse cultures within the Russian-speaking world, this minor prepares students to visit Russia and to interact in informal and professional settings with native speakers.

### Fully Offered At:

- Kent Campus

## Admission Requirements

Admission to a minor is open to students declared in a bachelor's degree, the A.A.B. or A.A.S. degree or the A.T.S. degree (not Individualized Program major). Students declared only in the A.A. or A.S. degree or the A.T.S. degree in Individualized Program may not declare a minor. Students may not pursue a minor and a major in the same discipline.

## Minor Requirements

Code	Title	Credit Hours
<b>Prerequisite Requirements</b> <sup>1</sup>		
RUSS 12201	ELEMENTARY RUSSIAN I	
RUSS 12202	ELEMENTARY RUSSIAN II	
RUSS 22201	INTERMEDIATE RUSSIAN I	
RUSS 22202	INTERMEDIATE RUSSIAN II	
<b>Minor Requirements</b>		
RUSS 32201	INTENSIVE RUSSIAN GRAMMAR	3
RUSS 32211	COMPOSITION AND CONVERSATION	3
RUSS 32303	MODERN WRITERS (ELR) (WIC)	3
RUSS 32421	RUSSIAN CIVILIZATION (ELR) (WIC)	3
Russian Upper-Level Literature Electives		6
Minimum Total Credit Hours:		18

<sup>1</sup> Prerequisites may be satisfied with demonstrated language proficiency.

## Graduation Requirements

Minimum Minor GPA	Minimum Overall GPA
2.000	2.000

- Students must complete at least two upper-division (30000 or 40000 level) courses in the minor at Kent State on a graded basis (A-F).
- Minimum 6 credit hours in the minor must be upper-division coursework (30000 and 40000 level).
- Minimum 6 credit hours in the minor must be outside of the course requirements for any major or other minor the student is pursuing.
- Minimum 50 percent of the total credit hours for the minor must be taken at Kent State (in residence).

## Program Note

- Some courses in the Department of Modern and Classical Language Studies are offered on a rotating basis, and course availability may change at any time. Visit the department's website for course offering projections and advising with course planning.

## Russian Literature, Culture and Translation - B.A.

### College of Arts and Sciences

Department of Modern and Classical Language Studies  
109 Satterfield Hall  
Kent Campus  
330-672-2150  
mcls@kent.edu  
www.kent.edu/mcls

## Description

The Bachelor of Arts degree in Russian Literature, Culture and Translation provides a basis for the development of professional-level proficiency in the Russian language, as well as comprehensive understanding of Russian literature and culture, including television and film. Additionally, students are introduced to basic skills for translating a variety of pragmatic texts from Russian into English. Students explore the language and culture of the pre-revolutionary Russian empire, the Soviet Union and contemporary post-Soviet Russia.

### Fully Offered At:

- Kent Campus

## Admission Requirements

The university affirmatively strives to provide educational opportunities and access to students with varied backgrounds, those with special talents and adult students who graduated from high school three or more years ago.

**Freshman Students on the Kent Campus:** The freshman admission policy on the Kent Campus is selective. Admission decisions are based upon the following: cumulative grade point average, ACT and/or SAT scores, strength of high school college preparatory curriculum and grade trends. The Admissions Office at the Kent Campus may defer the admission of students who do not meet admissions criteria but who demonstrate areas of promise for successful college study. Deferred applicants may begin their college coursework at one of seven regional campuses of Kent State University. For more information on admissions, including additional requirements for some academic programs, visit the admissions website for new freshmen.

**Freshman Students on the Regional Campuses:** Kent State campuses at Ashtabula, East Liverpool, Geauga, Salem, Stark, Trumbull and Tuscarawas, as well as the Regional Academic Center in Twinsburg, have open enrollment admission for students who hold a high school diploma, GED or equivalent.

### English Language Proficiency Requirements for International Students:

All international students must provide proof of English language proficiency (unless they meet specific exceptions) by earning a minimum 525 TOEFL score (71 on the Internet-based version), minimum 75

MELAB score, minimum 6.0 IELTS score or minimum 48 PTE score, or by completing the ESL level 112 Intensive Program. For more information on international admission, visit the Office of Global Education's admission website.

**Transfer, Transitioning and Former Students:** For more information about admission criteria for transfer, transitioning and former students, please visit the admissions website.

## Program Learning Outcomes

Graduates of this program will be able to:

1. Perform tasks at intermediate high and advanced low levels of proficiency as described by the American Council on the Teaching of Foreign Languages (ACTFL) Proficiency Guidelines. Proficiency, in ACTFL terms, is understood to describe a range of qualities rather than an absolute norm and will vary according to task type, language function, topic, skill (listening, speaking, reading, writing) and so forth.
2. Contribute to most informal and some formal conversations with sufficient accuracy, clarity and precision to convey their intended message without misrepresentation or confusion.
3. Read a wide variety of texts written for native speakers of Russian and not edited or adapted for non-native speakers.
4. Compose routine social correspondence and write cohesive summaries, narratives and descriptions of a factual nature in Russian.
5. Demonstrate a historical knowledge of Russian history and culture and understand the diverse nature of culture throughout the ages.
6. Discuss cultural differences, distinguishing between fact, opinion and stereotype.
7. Communicate effectively and sensitively to diverse ethnic and cultural groups.
8. View concepts, issues, events and themes from the perspectives of diverse ethnic and cultural groups.
9. Esteem value.
10. Maintain an ongoing assessment of their own cultural values and behaviors.

## University Requirements

All students in a bachelor's degree program at Kent State University must complete the following university requirements for graduation.

**NOTE:** University requirements may be fulfilled in this program by specific course requirements. Please see Program Requirements for details.

Destination Kent State: First Year Experience	1
Course is not required for students with 25 transfer credits, excluding College Credit Plus, or age 21+ at time of admission.	
Diversity Domestic/Global (DIVD/DIVG)	2 courses
Students must successfully complete one domestic and one global course, of which one must be from the Kent Core.	
Experiential Learning Requirement (ELR)	varies
Students must successfully complete one course or approved experience.	
Kent Core (see table below)	36-37
Writing-Intensive Course (WIC)	1 course
Students must earn a minimum C grade in the course.	
Upper-Division Requirement	39 (or 42)

Students must successfully complete 39 upper-division (numbered 30000 to 49999) credit hours to graduate. Students in a B.A. and/or B.S. degree in the College of Arts and Sciences must complete 42 upper-division credit hours.

Total Credit Hour Requirement	120
Some bachelor's degrees require students to complete more than 120 credit hours.	

## Kent Core Requirements

Kent Core Composition (KCMP)	6
Kent Core Mathematics and Critical Reasoning (KMCR)	3
Kent Core Humanities and Fine Arts (KHUM/KFA) (min one course each)	9
Kent Core Social Sciences (KSS) (must be from two disciplines)	6
Kent Core Basic Sciences (KBS/KLAB) (must include one laboratory)	6-7
Kent Core Additional (KADL)	6
<b>Total Credit Hours:</b>	<b>36-37</b>

## Program Requirements

### Major Requirements

Code	Title	Credit Hours
<b>Prerequisite Requirements <sup>1</sup></b>		
RUSS 12201	ELEMENTARY RUSSIAN I	
RUSS 12202	ELEMENTARY RUSSIAN II	
RUSS 22201	INTERMEDIATE RUSSIAN I	
RUSS 22202	INTERMEDIATE RUSSIAN II	
<b>Major Requirements (courses count in major GPA)</b>		
RUSS 32201	INTENSIVE RUSSIAN GRAMMAR	3
RUSS 32211	COMPOSITION AND CONVERSATION	3
RUSS 32215	RUSSIAN PHONETICS AND DICTION	3
RUSS 32231	TRANSLATION PRACTICE: RUSSIAN	1
RUSS 32303	MODERN WRITERS (ELR) (WIC) <sup>2</sup>	3
RUSS 32421	RUSSIAN CIVILIZATION (ELR) (WIC) <sup>2</sup>	3
RUSS 42211	ADVANCED COMPOSITION AND CONVERSATION	3
RUSS 42351	SURVEY OF RUSSIAN AND SOVIET LITERATURE	4
TRST 30230	APPROACHES TO TRANSLATION	3
MCLS 30420	FOREIGN LANGUAGES AND CULTURE STUDIES	3
Major Elective, choose from the following:		3
RUSS 42095	SPECIAL TOPICS IN RUSSIAN LANGUAGE AND LITERATURES	
RUSS 42096	INDIVIDUAL INVESTIGATION	
RUSS 42240	BUSINESS AND SPECIAL TEXTS: RUSSIAN	
RUSS 42399	RESEARCH PROJECT IN RUSSIAN LANGUAGE AND LITERATURE (ELR)	
Russian Literature or Cultural Electives, choose from the following:		6
RUSS 32240	CONVERSATION FOR BUSINESS AND SPECIAL PURPOSES: RUSSIAN	
RUSS 32501	RUSSIAN LITERATURE IN ENGLISH	
RUSS 42095	SPECIAL TOPICS IN RUSSIAN LANGUAGE AND LITERATURES	
RUSS 42230	ADVANCED TRANSLATION PRACTICE: RUSSIAN (ELR) (WIC)	
RUSS 42240	BUSINESS AND SPECIAL TEXTS: RUSSIAN	
<b>Additional Requirements (courses do not count in major GPA)</b>		

UC 10097	DESTINATION KENT STATE: FIRST YEAR EXPERIENCE	1
Kent Core Composition		6
Kent Core Mathematics and Critical Reasoning		3
Kent Core Humanities and Fine Arts (minimum one course from each)		9
Kent Core Social Sciences (must be from two disciplines)		6
Kent Core Basic Sciences (must include one laboratory)		6-7
Kent Core Additional		6
College General Requirement (must be from Kent Core Basic Sciences) <sup>4</sup>		3
College General Requirement (must be from Kent Core Social Sciences) <sup>5</sup>		3
General Electives (total credit hours depends on earning 120 credit hours, including 42 upper-division credit hours)		39
Minimum Total Credit Hours:		120

- <sup>1</sup> Students who fulfill the language requirement in fewer than 14 credit hours as a result of starting their Russian studies in a course higher than RUSS 22202 will complete remaining credit hours with general electives. Students with previous Russian study should see a Russian major advisor for placement. Students lacking in sufficient major-level proficiency to take the first major courses (RUSS 32201) can reach it by taking courses in the prerequisite sequence (RUSS 12201, RUSS 12202, RUSS 22201 and RUSS 22202) based on the advisor's placement recommendation and high school training. Students with sufficient Russian to place into higher semesters are not allowed in RUSS 12202.
- <sup>2</sup> Students are required to earn a minimum C grade to fulfill the writing-intensive requirement.
- <sup>3</sup> Students planning to earn teaching licensure and declared in the Education minor should take MCLS 30420.
- <sup>4</sup> One additional course taken from the Kent Core Basic Science courses in the following Arts and Sciences disciplines: Anthropology (ANTH), Biological Sciences (BSCI), Chemistry (CHEM), Geography (GEOG), Geology (GEOL) or Physics (PHY). The course may not be from the student's major.
- <sup>5</sup> One additional course taken from the Kent Social Sciences courses in the following Arts and Sciences disciplines: Anthropology (ANTH), Geography (GEOG), Criminology and Justice Studies (CRIM), Peace and Conflict Studies (PACS), Political Science (POL), Psychology (PSYC) or Sociology (SOC). This course may not be from the student's major.

## PROGRAM NOTE

- Some courses in the Department of Modern and Classical Language Studies are offered on a rotating basis, and course availability may change at any time. Visit the department's website for course offering projections and advising with course planning.

## Graduation Requirements

Minimum Major GPA	Minimum Overall GPA
2.000	2.000

- All Russian Literature, Culture and Translation majors must take the American Council on the Teaching of Foreign Languages (ACTFL) Oral Proficiency Interview, ACTFL Writing Proficiency Test and the Russian Outcomes Assessment Test, prior to being cleared for graduation. Information about the exams can be found on the ACTFL Website and the Language Testing International (LTI) website, the exclusive licensee of ACTFL. B.A. in Russian Literature, Culture and Translation candidates should consult with their designated Russian faculty advisor for more information on arranging to take the proficiency exams.

## Roadmap

This roadmap is a recommended semester-by-semester plan of study for this major. However, courses designated as critical (!) must be completed in the semester listed to ensure a timely graduation.

Semester One		Credits
UC 10097	DESTINATION KENT STATE: FIRST YEAR EXPERIENCE	1
Kent Core Requirement		3
Kent Core Requirement		3
Kent Core Requirement		3
Kent Core Requirement		3
General Elective		3
Credit Hours		16
Semester Two		Credits
MCLS 30420	FOREIGN LANGUAGES AND CULTURE STUDIES	3
Kent Core Requirement		3
Kent Core Requirement		3
Kent Core Requirement		3
General Elective		3
Credit Hours		15
Semester Three		Credits
! RUSS 32201	INTENSIVE RUSSIAN GRAMMAR	3
RUSS 32303	MODERN WRITERS (ELR) (WIC)	3
Kent Core Requirement		3
Kent Core Requirement		3
Kent Core Requirement		3
Credit Hours		15
Semester Four		Credits
! RUSS 32215	RUSSIAN PHONETICS AND DICTION	3
College General Requirement		3
College General Requirement		3
Kent Core Requirement		3
General Elective		2
Credit Hours		14
Semester Five		Credits
! RUSS 32231	TRANSLATION PRACTICE: RUSSIAN	1
! TRST 30230	APPROACHES TO TRANSLATION	3
RUSS 32211	COMPOSITION AND CONVERSATION	3
General Electives		8
Credit Hours		15
Semester Six		Credits
RUSS 32421	RUSSIAN CIVILIZATION (ELR) (WIC)	3
RUSS 42211	ADVANCED COMPOSITION AND CONVERSATION	3
! Russian Literature or Cultural Elective		3
Kent Core Requirement		3
General Elective		3
Credit Hours		15
Semester Seven		Credits
! Russian Literature or Cultural Elective		3
General Electives		12
Credit Hours		15
Semester Eight		Credits
RUSS 42351	SURVEY OF RUSSIAN AND SOVIET LITERATURE	4
! Major Elective		3

General Electives	8
Credit Hours	15
Minimum Total Credit Hours:	120

## Russian Studies - Minor

### College of Arts and Sciences

Department of Modern and Classical Language Studies

109 Satterfield Hall

Kent Campus

330-672-2150

mcls@kent.edu

www.kent.edu/mcls

## Description

The Russian Studies minor offers students the opportunity to study the language and culture of Russia.

### Fully Offered At:

- Kent Campus

## Admission Requirements

Admission to a minor is open to students declared in a bachelor's degree, the A.A.B. or A.A.S. degree or the A.T.S. degree (not Individualized Program major). Students declared only in the A.A. or A.S. degree or the A.T.S. degree in Individualized Program may not declare a minor. Students may not pursue a minor and a major in the same discipline.

## Minor Requirements

Code	Title	Credit Hours
<b>Prerequisite Requirements</b> <sup>1</sup>		
RUSS 22202	INTERMEDIATE RUSSIAN II	
<b>Minor Requirements</b>		
GEOG 37050	GEOGRAPHY OF RUSSIA AND THE COMMONWEALTH OF INDEPENDENT STATES (DIVG) <sup>2</sup>	3
HIST 41044	IMPERIAL RUSSIA, 1689-1917	3
HIST 41045	MODERN RUSSIA, 1917-PRESENT	3
RUSS 32201	INTENSIVE RUSSIAN GRAMMAR	3
or RUSS 32211	COMPOSITION AND CONVERSATION	
RUSS 32303	MODERN WRITERS (ELR) (WIC)	3
RUSS 32421	RUSSIAN CIVILIZATION (ELR) (WIC)	3
Russian Upper-Division Elective (RUSS 30000 or 40000 level)		3
Minimum Total Credit Hours:		21

<sup>1</sup> Prerequisites may be satisfied with demonstrated language proficiency.

<sup>2</sup> Appropriate specialized offerings may be substituted with approval of the Russian Studies program coordinator.

## Graduation Requirements

Minimum Minor GPA	Minimum Overall GPA
2.000	2.000

- Students must complete at least two upper-division (30000 or 40000 level) courses in the minor at Kent State on a graded basis (A-F).
- Minimum 6 credit hours in the minor must be upper-division coursework (30000 and 40000 level).
- Minimum 6 credit hours in the minor must be outside of the course requirements for any major or other minor the student is pursuing.
- Minimum 50 percent of the total credit hours for the minor must be taken at Kent State (in residence).

## Program Note

- Some courses in the Department of Modern and Classical Language Studies are offered on a rotating basis, and course availability may change at any time. Visit the department's website for course offering projections and advising with course planning.

# Spanish - B.A.

## College of Arts and Sciences

Department of Modern and Classical Language Studies  
109 Satterfield Hall  
Kent Campus  
330-672-2150  
mcls@kent.edu  
www.kent.edu/mcls

## Description

The Bachelor of Arts degree in Spanish provides students with opportunities to explore the rich diversity of Spanish cultures, develop reading, writing, listening and speaking skills in the Spanish language. Students will also acquire an in-depth knowledge and critical perspective on history and culture of the Spanish-speaking world through the analysis of literary and non literary texts.

## Fully Offered At:

- Kent Campus

## Admission Requirements

The university affirmatively strives to provide educational opportunities and access to students with varied backgrounds, those with special talents and adult students who graduated from high school three or more years ago.

**Freshman Students on the Kent Campus:** The freshman admission policy on the Kent Campus is selective. Admission decisions are based upon the following: cumulative grade point average, ACT and/or SAT scores, strength of high school college preparatory curriculum and grade trends. The Admissions Office at the Kent Campus may defer the admission of students who do not meet admissions criteria but who demonstrate areas of promise for successful college study. Deferred applicants may begin their college coursework at one of seven regional campuses of Kent State University. For more information on admissions, including additional requirements for some academic programs, visit the admissions website for new freshmen.

**Freshman Students on the Regional Campuses:** Kent State campuses at Ashtabula, East Liverpool, Geauga, Salem, Stark, Trumbull and Tuscarawas, as well as the Regional Academic Center in Twinsburg, have

open enrollment admission for students who hold a high school diploma, GED or equivalent.

### English Language Proficiency Requirements for International Students:

All international students must provide proof of English language proficiency (unless they meet specific exceptions) by earning a minimum 525 TOEFL score (71 on the Internet-based version), minimum 75 MELAB score, minimum 6.0 IELTS score or minimum 48 PTE score, or by completing the ESL level 112 Intensive Program. For more information on international admission, visit the Office of Global Education's admission website.

**Transfer, Transitioning and Former Students:** For more information about admission criteria for transfer, transitioning and former students, please visit the admissions website.

## Program Learning Outcomes

Graduates of this program will be able to:

1. Perform tasks at Intermediate High and Advanced Low levels of proficiency as described by the American Council on the Teaching of Foreign Languages (ACTFL) Proficiency Guidelines. Proficiency, in ACTFL terms, is understood to describe a range of qualities rather than an absolute norm and will vary according to task type, language function, topic, skill (listening, speaking, reading, writing), and so forth.
2. Contribute to most informal and some formal conversations with sufficient accuracy, clarity, and precision to convey their intended message without misrepresentation or confusion. They will for the most part be understood by native speakers unaccustomed to dealing with non-native speakers.
3. Vary the register (formality level) of their speech.
4. Talk about personal interests, topics of general interest, literature and culture, and so forth in the target language.
5. Listen to extended discourse on a variety of topics and understand main ideas and most details.
6. Read texts written for native speakers and not edited or adapted for students. They will read a wide variety of text types such as poems, plays, novels, magazine articles, newspaper articles, brochures, pamphlets, menus, letters written for native speakers of Spanish.
7. Compose routine social correspondence, take notes, write cohesive summaries and resumes, as well as narratives and descriptions of a factual nature in the target language. Additionally, they will be able to complete course-related writing tasks such as essays and term papers in the target language. They will be able to defend a thesis statement and make stylistic decisions based on the needs of specific audiences and on specific writing purposes.
8. Demonstrate a historical knowledge of Spanish history and culture and understand the diverse nature of culture throughout the ages.
9. Discuss cultural differences, distinguishing between fact, opinion and stereotypes.
10. Learn to recognize and esteem diversity as they gain the skills necessary for sensitive, effective interpersonal and intercultural interaction.
11. Learn to view concepts, issues, events, and themes from the perspectives of diverse ethnic and cultural groups and to esteem diversity as they gain the skills necessary for sensitive, effective interpersonal and intercultural communication. Additionally, in learning to recognize and accept cultural differences, graduates will be able to maintain an ongoing assessment of their own cultural



values and behaviors. Successful completion of the program will foster in our students a lifetime commitment and desire to continue learning about languages, literatures and cultures different from their own.

## University Requirements

All students in a bachelor's degree program at Kent State University must complete the following university requirements for graduation.

**NOTE:** University requirements may be fulfilled in this program by specific course requirements. Please see Program Requirements for details.

Destination Kent State: First Year Experience	1
Course is not required for students with 25 transfer credits, excluding College Credit Plus, or age 21+ at time of admission.	
Diversity Domestic/Global (DIVD/DIVG)	2 courses
Students must successfully complete one domestic and one global course, of which one must be from the Kent Core.	
Experiential Learning Requirement (ELR)	varies
Students must successfully complete one course or approved experience.	
Kent Core (see table below)	36-37
Writing-Intensive Course (WIC)	1 course
Students must earn a minimum C grade in the course.	
Upper-Division Requirement	39 (or 42)
Students must successfully complete 39 upper-division (numbered 30000 to 49999) credit hours to graduate. Students in a B.A. and/or B.S. degree in the College of Arts and Sciences must complete 42 upper-division credit hours.	
Total Credit Hour Requirement	120
Some bachelor's degrees require students to complete more than 120 credit hours.	

## Kent Core Requirements

Kent Core Composition (KCOMP)	6
Kent Core Mathematics and Critical Reasoning (KMCR)	3
Kent Core Humanities and Fine Arts (KHUM/KFA) (min one course each)	9
Kent Core Social Sciences (KSS) (must be from two disciplines)	6
Kent Core Basic Sciences (KBS/KLAB) (must include one laboratory)	6-7
Kent Core Additional (KADL)	6
<b>Total Credit Hours:</b>	<b>36-37</b>

## Program Requirements

### Major Requirements

Code	Title	Credit Hours
<b>Prerequisite Requirements</b> <sup>1</sup>		
SPAN 18201	ELEMENTARY SPANISH I	
SPAN 18202	ELEMENTARY SPANISH II	
SPAN 28201	INTERMEDIATE SPANISH I	
SPAN 28202	INTERMEDIATE SPANISH II	
<b>Major Requirements (courses count in major GPA)</b>		
SPAN 38211	SPANISH GRAMMAR AND COMPOSITION	3
SPAN 38213	SPANISH READING AND CONVERSATION	3
SPAN 38421	CIVILIZATION OF SPAIN	3

SPAN 38424	CULTURE AND CIVILIZATION OF LATIN AMERICA	3
SPAN 48215	ADVANCED SPANISH COMPOSITION AND CONVERSATION	3
Spanish (SPAN) Upper-Division Electives (30000 or 40000 levels)		6
Spanish (SPAN) Upper-Division Electives (40000 level)		6
Survey Literature Electives, choose from the following:		3
SPAN 38330	EARLY SPANISH LITERATURE (ELR) (WIC) <sup>2</sup>	
SPAN 38331	RECENT SPANISH LITERATURE (ELR) (WIC) <sup>2</sup>	
SPAN 38334	EARLY SPANISH-AMERICAN LITERATURE (ELR) (WIC) <sup>2</sup>	
SPAN 38335	RECENT SPANISH-AMERICAN LITERATURE (ELR) (WIC) <sup>2</sup>	
Major Electives, choose from the following:		3
Modern and Classical Language Studies (MCLS) Upper-Division Electives (30000 or 40000 levels)		
Spanish (SPAN) Upper-Division Electives (30000 or 40000 levels)		
Translation Studies (TRST) Upper-Division Electives (30000 or 40000 level)		
<b>Additional Requirements (courses do not count in major GPA)</b>		
UC 10097	DESTINATION KENT STATE: FIRST YEAR EXPERIENCE	1
Kent Core Composition		6
Kent Core Mathematics and Critical Reasoning		3
Kent Core Humanities and Fine Arts (minimum one course from each)		9
Kent Core Social Sciences (must be from two disciplines)		6
Kent Core Basic Sciences (must include one laboratory)		6-7
Kent Core Additional		6
College General Requirement (must be from Kent Core Basic Sciences) <sup>4</sup>		3
College General Requirement (must be from Kent Core Social Sciences) <sup>5</sup>		3
General Electives (total credit hours depends on earning 120 credit hours, including 42 upper-division credit hours)		44
<b>Minimum Total Credit Hours:</b>		<b>120</b>

- Many students begin their university studies with substantial proficiency in Spanish and therefore, should begin their program of study with the first course in the Spanish major, SPAN 38211. Other students may need to complete one or more of the prerequisite courses: SPAN 18201, SPAN 18202, SPAN 28201, SPAN 28202. Starting Spanish studies in the appropriate courses(s) is critical to on-time graduation. All students intending to major in Spanish should contact a Spanish faculty advisor in the Department of Modern and Classical Language Studies for individualized placement and advising information prior to enrolling in their first Spanish course. Students entering the university with substantial knowledge of Spanish should consider taking the College-Level Examination Program (CLEP) through which they may receive up to 14 credit hours of university credit. Students wishing to earn credit through CLEP should take the exam several weeks prior to enrolling in their first Spanish course to ensure eligibility, timely granting of credits and timely placement into the correct Spanish courses(s).
- It is recommended that students who have the declared the Education minor and students interested in declaring a double major with Translation take MCLS 30420.
- A minimum C grade must be earned to fulfill the writing-intensive requirement.

- <sup>4</sup> One additional course taken from the Kent Core Basic Science courses in the following Arts and Sciences disciplines: Anthropology (ANTH), Biological Sciences (BSCI), Chemistry (CHEM), Geography (GEOG), Geology (GEOL) or Physics (PHY). The course may not be from the student's major.
- <sup>5</sup> One additional course taken from the Kent Core Social Sciences courses in the following Arts and Sciences disciplines: Anthropology (ANTH), Geography (GEOG), Criminology and Justice Studies (CRIM), Peace and Conflict Studies (PACS), Political Science (POL), Psychology (PSYC) or Sociology (SOC). The course may not be from the student's major.

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## Graduation Requirements

Minimum Major GPA	Minimum Overall GPA
2.000	2.000

- All students in the Spanish major are required to complete the American Council on the Teaching of Foreign Languages (ACTFL) Oral Proficiency Interview, ACTFL Writing Proficiency Test and the Spanish Outcomes Assessment Test, prior to being cleared for graduation. Information about the exams can be found on the ACTFL website and the Language Testing International (LTI) website, the exclusive licensee of ACTFL.

## PROGRAM NOTE

- Some courses in the Department of Modern and Classical Language Studies are offered on a rotating basis, and course availability may change at any time. Visit the department's website for course offering projections and advising with course planning.

## Roadmap

This roadmap is a recommended semester-by-semester plan of study for this major. However, courses designated as critical (!) must be completed in the semester listed to ensure a timely graduation.

Semester One		Credits
SPAN 38211	SPANISH GRAMMAR AND COMPOSITION	3
UC 10097	DESTINATION KENT STATE: FIRST YEAR EXPERIENCE	1
Kent Core Requirement		3
Kent Core Requirement		3
Kent Core Requirement		3
General Elective		3
Credit Hours		16
Semester Two		Credits
SPAN 38213	SPANISH READING AND CONVERSATION	3
College General Requirement		3
Kent Core Requirement		3
Kent Core Requirement		3
Kent Core Requirement		3
Credit Hours		15
Semester Three		Credits
SPAN 38421	CIVILIZATION OF SPAIN	3
College General Requirement		3
Kent Core Requirement		3
Kent Core Requirement		3
General Elective		3
Credit Hours		15
Semester Four		Credits
SPAN 38424	CULTURE AND CIVILIZATION OF LATIN AMERICA	3
Major Elective or Survey Literature Elective, or Spanish (SPAN) Upper-Division Elective (30000 or 40000 level)		3
General Electives		9
Credit Hours		15
Semester Five		Credits
SPAN 48215	ADVANCED SPANISH COMPOSITION AND CONVERSATION	3
Major Elective or Survey Literature Elective, or Spanish (SPAN) Upper-Division Elective (30000 or 40000 level)		3
Kent Core Requirement		3
General Electives		6
Credit Hours		15
Semester Six		Credits
Major Elective or Survey Literature Elective, or Spanish (SPAN) Upper-Division Elective (30000 or 40000 level)		3
Kent Core Requirement		3
Kent Core Requirement		3
General Electives		6
Credit Hours		15
Semester Seven		Credits
Major Elective or Survey Literature Elective, or Spanish (SPAN) Upper-Division Elective (30000 or 40000 level)		6
Kent Core Requirement		3
General Electives		6
Credit Hours		15

### Semester Eight

Major Elective or Survey Literature Elective, or Spanish (SPAN) Upper-Division Elective (30000 or 40000 level)		3
General Electives		11
Credit Hours		14
Minimum Total Credit Hours:		120

## Spanish - M.A.

### College of Arts and Sciences

Department of Modern and Classical Language Studies  
109 Satterfield Hall  
Kent Campus  
330-672-2150  
mcls@kent.edu  
www.kent.edu/mcls

## Description

The Master of Arts degree in Spanish provides advanced education in Spanish, which integrates the language, linguistics, literature and culture of Spain and Latin America and the latest methodologies in the teaching of Spanish.

The Spanish major comprises the following concentrations:

- The **Applied Linguistics and Pedagogy** concentration is intended primarily for students who wish to teach in elementary and secondary schools or beginning and intermediate levels of post-secondary study, and to increase their effectiveness as teachers.
- The **Language Literature and Culture** concentration is intended for those who wish to increase their knowledge of literature and culture along with their command of the language for various purposes.

### Fully Offered At:

- Kent Campus

## Admission Requirements

- Bachelor's degree from an accredited college or university for unconditional admission
- Minimum 3.000 undergraduate GPA on a 4.000 point scale for unconditional admission
- Official transcript(s)
- Goal statement
- A CD or MP3/wav file with a 5-10-minute oral sample in both applicant's first and second languages (conversational, not read from a script) (Effective Spring 2021: In lieu of an oral sample, applicants may submit a copy of a recent ACTFL Oral Proficiency Interview Certificate (no more than three years old)
- Writing sample(s) in applicant's second language, which should be accompanied by a signed declaration that the sample is original work and that the applicant received no help in its preparation. International applicants should also submit a writing sample in English (Effective Spring 2021: In lieu of an oral sample, applicants may submit a copy of a recent ACTFL Oral Proficiency Interview Certificate (no more than three years old)
- Three letters of recommendation

- English language proficiency - all international students must provide proof of English language proficiency (unless they meet specific exceptions) by earning one of the following:
  - Minimum 550 TOEFL PBT score (paper-based version)
  - Minimum 79 TOEFL IBT score (Internet-based version)
  - Minimum 77 MELAB score
  - Minimum 6.5 IELTS score
  - Minimum 58 PTE score
  - Minimum 110 Duolingo English Test score

For more information about graduate admissions, please visit the Graduate Studies admission website. For more information on international admission, visit the Office of Global Education's admission website.

## Program Requirements

### Major requirements

Code	Title	Credit Hours
<b>Major Requirements</b>		
SPAN 58216	CONTEMPORARY HISPANIC CULTURE	3
SPAN 68215	ADVANCED SPANISH COMPOSITION AND CONVERSATION	3
Literature Electives, choose from the following: 3		
MCLS 60330	APPROACHES TO LITERATURE AND CULTURE	
or MCLS 60622	TEACHING LITERATURE AND CULTURE	
or SPAN 68240	LITERARY AND CULTURAL TRANSLATION	
Research Method Electives, choose from the following: 3		
MCLS 60698	SECOND LANGUAGE RESEARCH METHODS	
or TRST 60001	GRADUATE RESEARCH AND WRITING IN TRANSLATION STUDIES	
Applied Linguistics Electives, choose from the following: 3		
MCLS 60601	LINGUISTICS FOR THE LANGUAGE PROFESSIONS	
SPAN 68010 & TRST 60010	THE PRACTICE OF SPANISH TRANSLATION and THEORY OF TRANSLATION AND INTERPRETING	
Spanish (SPAN) Electives (50000 or 60000 level)		6
<b>Concentrations</b>		
Choose from the following:		12
Applied Linguistics and Pedagogy		
Language, Literature and Culture		
Minimum Total Credit Hours:		33

### Applied Linguistics and Pedagogy Concentration Requirements

Code	Title	Credit Hours
<b>Concentration Requirements</b>		
MCLS 50660	METHODS OF TEACHING FOREIGN LANGUAGES <sup>1</sup>	3
MCLS 60661	THEORIES IN SECOND LANGUAGE ACQUISITION	3
Second Language Pedagogy Electives		6
Minimum Total Credit Hours:		12

- Students who are already licensed to teach language in Ohio may, with departmental approval, substitute a graduate second-language pedagogy elective for MCLS 50660.

### Literature Concentration Requirements

Code	Title	Credit Hours
<b>Concentration Requirements</b>		
Spanish (SPAN) Electives (50000 or 60000) <sup>1,2,3</sup>		6
Concentration Electives, choose from the following: <sup>1,2,3</sup>		6
Modern and Classical Language Studies (MCLS) (60000 level)		
Spanish (SPAN) (50000 or 60000 level)		
Translation Studies (TRST) (60000 level)		
Minimum Total Credit Hours:		12

- A maximum 6 credit hours of individual investigation research may be applied toward the degree.
- Students interested in a thesis option may register for a maximum of 6 credit hours of SPAN 68199.
- Students must complete a minimum of 18 credit hours of their M.A. program at the 60000 level. Electives should be chosen accordingly in consultation with the student's academic advisor.

### Graduation Requirements

- All students in the Spanish M.A. are required to complete the American Council on the Teaching of Foreign Languages (ACTFL) Oral Proficiency Interview, ACTFL Writing Proficiency Test and the Spanish. Outcomes Assessment Test, prior to being cleared for graduation. Information about the exams can be found on the ACTFL website and the Language Testing International (LTI) website, the exclusive licensee of ACTFL.
- Students in the Applied Linguistics and Pedagogy concentration must successfully complete a final project, a portfolio or a comprehensive examination. Students are encouraged to enroll in study abroad programs (maximum 6 credit hours) and in specialized workshops in advanced language or pedagogy (maximum 4 credit hours). Departmental permission must be obtained before enrolling in such programs.
- Students in the Language, Literature and Culture concentration must successfully complete one of the following:
  - a comprehensive examination ;
  - a concentration exam and thesis
  - a final research project
- Students who anticipate enrolling in a doctorate elsewhere after completing the M.A. degree are urged to write a thesis. Students who write a thesis must successfully pass a comprehensive examination.

## Spanish - Minor

### College of Arts and Sciences

Department of Modern and Classical Language Studies  
109 Satterfield Hall  
Kent Campus  
330-672-2150  
mcls@kent.edu

www.kent.edu/mcls

## Description

The Spanish minor enables students to develop skills in listening, speaking, reading and writing, as well as acquire knowledge of the literatures and cultures of Spain and Latin America. To achieve these goals, students study grammar, composition, speaking, Spanish and Spanish-American civilization and Spanish-American and Hispanic literature with emphasis on culture.

### Fully Offered At:

- Kent Campus

## Admission Requirements

Admission to a minor is open to students declared in a bachelor's degree, the A.A.B. or A.A.S. degree or the A.T.S. degree (not Individualized Program major). Students declared only in the A.A. or A.S. degree or the A.T.S. degree in Individualized Program may not declare a minor. Students may not pursue a minor and a major in the same discipline.

## Minor Requirements

Code	Title	Credit Hours
<b>Prerequisite Requirements<sup>1</sup></b>		
SPAN 18201	ELEMENTARY SPANISH I	
SPAN 18202	ELEMENTARY SPANISH II	
SPAN 28201	INTERMEDIATE SPANISH I	
SPAN 28202	INTERMEDIATE SPANISH II	
<b>Minor Requirements</b>		
SPAN 38211	SPANISH GRAMMAR AND COMPOSITION	3
SPAN 38213	SPANISH READING AND CONVERSATION	3
Choose from the following:		3
SPAN 38330	EARLY SPANISH LITERATURE (ELR) (WIC)	
SPAN 38331	RECENT SPANISH LITERATURE (ELR) (WIC)	
SPAN 38334	EARLY SPANISH-AMERICAN LITERATURE (ELR) (WIC)	
SPAN 38335	RECENT SPANISH-AMERICAN LITERATURE (ELR) (WIC)	
SPAN 38421	CIVILIZATION OF SPAIN	3
or SPAN 38424	CULTURE AND CIVILIZATION OF LATIN AMERICA	
Spanish (SPAN) Upper-Division Elective (30000 or 40000 level)		6
Spanish (SPAN) Upper-Division Elective (40000 level)		3
Minimum Total Credit Hours:		21

<sup>1</sup> Prerequisites may be satisfied with demonstrated language proficiency.

## Graduation Requirements

Minimum Minor GPA	Minimum Overall GPA
2.000	2.000

- Students must complete at least two upper-division (30000 or 40000 level) courses in the minor at Kent State on a graded basis (A-F).
- Minimum 6 credit hours in the minor must be upper-division coursework (30000 and 40000 level).

- Minimum 6 credit hours in the minor must be outside of the course requirements for any major or other minor the student is pursuing.
- Minimum 50 percent of the total credit hours for the minor must be taken at Kent State (in residence).

### Program Note

- Some courses in the Department of Modern and Classical Language Studies are offered on a rotating basis, and course availability may change at any time. Visit the department's website for course offering projections and advising with course planning.

## Translation - B.S.

### College of Arts and Sciences

Department of Modern and Classical Language Studies

109 Satterfield Hall

Kent Campus

330-672-2150

mcls@kent.edu

www.kent.edu/mcls

## Description

The Bachelor of Science degree in Translation is a pre-professional program designed for students who are seeking the more professional focus and interdisciplinary breadth that the B.S. degree offers with the inclusion of a minor, double major or certificate to develop the skills needed to translate in a professional setting. It introduces the basics of translation theory as it applies to the actual practice of translation.

The requirement of a minor, certificate or second major enables students to acquire a level of expertise in a specific field in which they can specialize as translators. This degree also enables students to have a major and a minor that make them more competitive and prepares them for a sector that the U.S. Department of Labor projects as one of the fastest-growing sectors globally. Translation majors are strongly encouraged to undertake study in a country where their language concentration is spoken so that they can achieve the necessary proficiency level. Skills necessary include an excellent command of the source language, an excellent command of the target language, cultural knowledge, specialist knowledge, research competence, terminological competence, technological competence, an understanding of the translation industry and transfer competence.

Graduates may enter graduate programs in translation (the professional degree) or go on to work for government, business or industry, for translation agencies or as freelance translators.

The Translation major comprises the following concentrations:

- Arabic
- French
- German
- Russian
- Spanish

Many study abroad opportunities exist, including:

- France: Université Michel de Montaigne Bordeaux III, Bordeaux (all class standings, all majors/minors)



- Germany: Julius-Maximilian-Universität Würzburg, Würzburg (all class standings, all majors/minors)
- Germany: Universität Leipzig, Leipzig (intermediate German language proficiency required)
- Spain: Universidad Europea de Madrid, Madrid (all class standings, all majors/minors)
- Spain: Universidad Europea de Valencia, Valencia

### Fully Offered At:

- Kent Campus

## Admission Requirements

The university affirmatively strives to provide educational opportunities and access to students with varied backgrounds, those with special talents and adult students who graduated from high school three or more years ago.

**Freshman Students on the Kent Campus:** The freshman admission policy on the Kent Campus is selective. Admission decisions are based upon the following: cumulative grade point average, ACT and/or SAT scores, strength of high school college preparatory curriculum and grade trends. The Admissions Office at the Kent Campus may defer the admission of students who do not meet admissions criteria but who demonstrate areas of promise for successful college study. Deferred applicants may begin their college coursework at one of seven regional campuses of Kent State University. For more information on admissions, including additional requirements for some academic programs, visit the admissions website for new freshmen.

**Freshman Students on the Regional Campuses:** Kent State campuses at Ashtabula, East Liverpool, Geauga, Salem, Stark, Trumbull and Tuscarawas, as well as the Regional Academic Center in Twinsburg, have open enrollment admission for students who hold a high school diploma, GED or equivalent.

**English Language Proficiency Requirements for International Students:** All international students must provide proof of English language proficiency (unless they meet specific exceptions) by earning a minimum 525 TOEFL score (71 on the Internet-based version), minimum 75 MELAB score, minimum 6.0 IELTS score or minimum 48 PTE score, or by completing the ESL level 112 Intensive Program. For more information on international admission, visit the Office of Global Education's admission website.

**Transfer, Transitioning and Former Students:** For more information about admission criteria for transfer, transitioning and former students, please visit the admissions website.

## Program Learning Outcomes

Graduate of the is program will be able to:

1. Participate in the most informal and some formal conversation with sufficient accuracy, clarity and precision to convey their intended message without misrepresentation or confusion and identify the cultural variables likely to lead to misunderstanding when communicating in their language pair.
2. Compose routine social correspondence and write summaries, narratives and descriptions of a factual nature needed in a professional context (i.e., business letters, memos, commercial and legal forms etc.) in their non-native language.

3. Translate short general and semi-specialized tests in various domains and in a variety of translations contexts from the source language into their native language with a basic understanding of translation principles and of text features relevant in the translation decision-making process.
4. Demonstrate an understanding of the typical life cycle of multilingual information in the language industry and common computer applications used by translators.

## University Requirements

All students in a bachelor's degree program at Kent State University must complete the following university requirements for graduation.

**NOTE:** University requirements may be fulfilled in this program by specific course requirements. Please see Program Requirements for details.

Destination Kent State: First Year Experience	1
Course is not required for students with 25 transfer credits, excluding College Credit Plus, or age 21+ at time of admission.	
Diversity Domestic/Global (DIVD/DIVG)	2 courses
Students must successfully complete one domestic and one global course, of which one must be from the Kent Core.	
Experiential Learning Requirement (ELR)	varies
Students must successfully complete one course or approved experience.	
Kent Core (see table below)	36-37
Writing-Intensive Course (WIC)	1 course
Students must earn a minimum C grade in the course.	
Upper-Division Requirement	39 (or 42)
Students must successfully complete 39 upper-division (numbered 30000 to 49999) credit hours to graduate. Students in a B.A. and/or B.S. degree in the College of Arts and Sciences must complete 42 upper-division credit hours.	
Total Credit Hour Requirement	120
Some bachelor's degrees require students to complete more than 120 credit hours.	

## Kent Core Requirements

Kent Core Composition (KCMP)	6
Kent Core Mathematics and Critical Reasoning (KMCR)	3
Kent Core Humanities and Fine Arts (KHUM/KFA) (min one course each)	9
Kent Core Social Sciences (KSS) (must be from two disciplines)	6
Kent Core Basic Sciences (KBS/KLAB) (must include one laboratory)	6-7
Kent Core Additional (KADL)	6
<b>Total Credit Hours:</b>	<b>36-37</b>

## Program Requirements

### Major Requirements

Code	Title	Credit Hours
<b>Major Requirements (courses count in major GPA)</b>		
ENG 20002 or ENG 30063	INTRODUCTION TO TECHNICAL WRITING <sup>1</sup> PROFESSIONAL WRITING	3
MCLS 30420	FOREIGN LANGUAGES AND CULTURE STUDIES	3
TRST 20009	MULTILINGUAL INFORMATION LIFECYCLE	3

TRST 30230	APPROACHES TO TRANSLATION	3
TRST 30330	CROSS-LANGUAGE MEDIATION	3

**Additional Requirements (courses do not count in major GPA)**

UC 10097	DESTINATION KENT STATE: FIRST YEAR EXPERIENCE	1
Minor, Certificate or Second Major Electives <sup>2</sup>		18
Kent Core Composition		6
Kent Core Mathematics and Critical Reasoning		3
Kent Core Humanities and Fine Arts (minimum one course from each)		9
Kent Core Social Sciences (must be from two disciplines)		6
Kent Core Basic Sciences (must include one laboratory)		6-7
Kent Core Additional		6
General Electives (total credit hours depends on earning 120 credit hours, including 42 upper-division credit hours)		22

**Concentrations**

Choose from the following:	28
Arabic	
French	
German	
Russian	
Spanish	
Minimum Total Credit Hours:	120

<sup>1</sup> ENG 20002 is recommended for students pursuing a technology-related minor, certificate or second major; ENG 30063 is recommended for students pursuing a business-related minor, certificate for second major.

<sup>2</sup> Students must declare and complete a minimum of 18 credit hours in a minor, certificate or a second major subject to department faculty advisor approval in a field related to business, technology, health, medicine, science, law, politics or other field in which there is a currently high demand for translators.

**Arabic Concentration Requirements**

Code	Title	Credit Hours
<b>Prerequisite Requirements</b>		
ARAB 11101	ELEMENTARY ARABIC I	
ARAB 11102	ELEMENTARY ARABIC II	
ARAB 21201	INTERMEDIATE ARABIC I	
ARAB 21202	INTERMEDIATE ARABIC II	
<b>Concentration Requirements (courses count in major GPA)</b>		
ARAB 37231	TRANSLATION PRACTICE: ARABIC	1
ARAB 37240	CONVERSATION FOR BUSINESS AND SPECIAL PURPOSES: ARABIC	3
ARAB 47230	ADVANCED TRANSLATION PRACTICE: ARABIC	3
ARAB 47240	BUSINESS AND SPECIAL TEXTS:ARABIC	3
Arabic (ARAB) Upper-Division Electives (40000 level)		6
Concentration Electives, choose from the following:		12
Arabic (ARAB) Upper-Division Electives (30000 or 40000 level)		
CIS 24053	INTRODUCTION TO COMPUTER APPLICATIONS	
CIS 34068	SYSTEMS ANALYSIS AND DESIGN	
COMM 43000	COMMUNICATION TECHNOLOGY AND HUMAN INTERACTION	
DSCI 34410		
ENG 30052	MEDICAL AND SCIENTIFIC WRITING	
ENG 30062	PRINCIPLES OF TECHNICAL WRITING	
GEOG 37045	GEOGRAPHY OF THE MIDDLE EAST	

HIST 31126	HISTORY OF THE MIDDLE EAST	
LIS 30010	INFORMATION FLUENCY IN THE WORKPLACE AND BEYOND	
MKTG 25010	PRINCIPLES OF MARKETING	
OTEC 26640	CURRENT TECHNOLOGIES	
PLST 28001	LEGAL RESEARCH AND WRITING	
POL 30560	MIDDLE EAST POLITICS (DIVG)	
VCD 37000	VISUAL DESIGN FOR MEDIA: ADVANCED	

Minimum Total Credit Hours: 28

**French Concentration Requirements**

Code	Title	Credit Hours
<b>Prerequisite Requirements</b>		
FR 13201	ELEMENTARY FRENCH I	
FR 13202	ELEMENTARY FRENCH II	
FR 23201	INTERMEDIATE FRENCH I	
FR 23202	INTERMEDIATE FRENCH II	
<b>Concentration Requirements (courses count in major GPA)</b>		
FR 33231	TRANSLATION PRACTICE: FRENCH	1
FR 33240	CONVERSATION FOR BUSINESS AND SPECIAL PURPOSES: FRENCH	3
FR 43230	ADVANCED TRANSLATION PRACTICE:FRENCH (WIC) <sup>1</sup>	3
FR 43240	BUSINESS AND SPECIAL TEXTS:FRENCH (ELR)	3
French (FR) Upper-Division Electives (30000 or 40000 level)		12
French (FR) Upper-Division Electives (40000 level)		6
Minimum Total Credit Hours:		28

<sup>1</sup> A minimum C grade must be earned to fulfill the writing-intensive requirement. Students may also fulfill this requirement by earning a minimum C grade in any of the language-specific advanced translation practice course or a language-specific elective that is designated as writing-intensive.

**German Concentration Requirements**

Code	Title	Credit Hours
<b>Prerequisite Requirements</b>		
GER 11201	ELEMENTARY GERMAN I	
GER 11202	ELEMENTARY GERMAN II	
GER 21201	INTERMEDIATE GERMAN I	
GER 21202	INTERMEDIATE GERMAN II	
<b>Concentration Requirements (courses count in major GPA)</b>		
GER 31231	TRANSLATION PRACTICE: GERMAN	1
GER 31240	CONVERSATION FOR BUSINESS AND SPECIAL PURPOSES: GERMAN	3
GER 41230	ADVANCED TRANSLATION PRACTICE: GERMAN (ELR) (WIC) <sup>1</sup>	3
GER 41240	BUSINESS AND SPECIAL TEXTS: GERMAN	3
German (GER) Upper-Division Electives (30000 or 40000 level)		12
German (GER) Upper-Division Electives (40000 level)		6
Minimum Total Credit Hours:		28

<sup>1</sup> A minimum C grade must be earned to fulfill the writing-intensive requirement. Students may also fulfill this requirement by earning a minimum C grade in any of the language-specific advanced translation practice course or language-specific elective that is designated as writing-intensive.

## Russian Concentration Requirements

Code	Title	Credit Hours
<b>Prerequisite Requirements</b>		
RUSS 12201	ELEMENTARY RUSSIAN I	
RUSS 12202	ELEMENTARY RUSSIAN II	
RUSS 22201	INTERMEDIATE RUSSIAN I	
RUSS 22202	INTERMEDIATE RUSSIAN II	
<b>Concentration Requirements (courses count in major GPA)</b>		
RUSS 32231	TRANSLATION PRACTICE: RUSSIAN	1
RUSS 32240	CONVERSATION FOR BUSINESS AND SPECIAL PURPOSES: RUSSIAN	3
RUSS 42230	ADVANCED TRANSLATION PRACTICE: RUSSIAN (ELR) (WIC) <sup>1</sup>	3
RUSS 42240	BUSINESS AND SPECIAL TEXTS: RUSSIAN	3
Russian (RUSS) Upper-Division Electives (30000 or 40000 level)		12
Russian (RUSS) Upper-Division Electives (40000 level)		6
Minimum Total Credit Hours:		28

<sup>1</sup> A minimum C grade must be earned to fulfill the writing-intensive requirement. Students may also fulfill this requirement by earning a minimum C grade in any of the language-specific Advanced Translation Practice course or language-specific elective that is designated as writing-intensive.

## Spanish Concentration Requirements

Code	Title	Credit Hours
<b>Prerequisite Requirements</b>		
SPAN 18201	ELEMENTARY SPANISH I	
SPAN 18202	ELEMENTARY SPANISH II	
SPAN 28201	INTERMEDIATE SPANISH I	
SPAN 28202	INTERMEDIATE SPANISH II	
<b>Concentration Requirements (courses count in major GPA)</b>		
SPAN 38231	TRANSLATION PRACTICE: SPANISH	1
SPAN 38240	CONVERSATION FOR BUSINESS AND SPECIAL PURPOSES: SPANISH	3
SPAN 48230	ADVANCED TRANSLATION PRACTICE: SPANISH (ELR) (WIC) <sup>1</sup>	3
SPAN 48240	BUSINESS AND SPECIAL TEXTS: SPANISH	3
Spanish (SPAN) Upper-Division Electives (30000 or 40000 level)		12
Spanish (SPAN) Upper-Division Electives (40000 level)		6
Minimum Total Credit Hours:		28

<sup>1</sup> A minimum C grade must be earned to fulfill the writing-intensive requirement. Students may also fulfill this requirement by earning a minimum C grade in any of the language-specific Advanced Translation Practice course or language-specific elective that is designated as writing-intensive.

## Graduation Requirements

Minimum Major GPA	Minimum Overall GPA
2.000	2.000

- Students are expected to start in a course appropriate to their language proficiency level. Students lacking in sufficient proficiency to take the first concentration course can reach it by taking courses in the prerequisite sequence based on their placement score and high school training. One or more of the prerequisites may be waived with demonstrated proficiency through the Kent State placement test, AP, CLEP, International Baccalaureate, official ACTFL Proficiency Rating or another department-approved assessment.
- Students who fulfill the college language requirement in fewer than 8 credit hours as a result of proficiency, will complete remaining hours with general electives. Completion of first junior-level course completes the College of Arts and Sciences foreign language requirements.

## Program Note

- Some courses in the Department of Modern and Classical Language Studies are offered on a rotating basis, and course availability may change at any time. Visit the department's website for course offering projections and advising with course planning.

## Roadmaps

- Arabic Concentration
- French Concentration
- German Concentration
- Russian Concentration
- Spanish Concentration

### ARABIC CONCENTRATION

This roadmap is a recommended semester-by-semester plan of study for this major. However, courses designated as critical (!) must be completed in the semester listed to ensure a timely graduation.

Semester One		Credits
UC 10097	DESTINATION KENT STATE: FIRST YEAR EXPERIENCE	1
Arabic Concentration Elective		3
Kent Core Requirement		3
Kent Core Requirement		3
Kent Core Requirement		3
Kent Core Requirement		3
Credit Hours		16
Semester Two		
TRST 20009	MULTILINGUAL INFORMATION LIFECYCLE	3
Arabic Concentration Elective		3
Kent Core Requirement		3
Kent Core Requirement		3
Kent Core Requirement		3
Kent Core Requirement		3
Credit Hours		18
Semester Three		
ENG 20002	INTRODUCTION TO TECHNICAL WRITING or PROFESSIONAL WRITING	3
ENG 30063		
! TRST 30330	CROSS-LANGUAGE MEDIATION	3
Arabic Concentration Elective		3
Minor, Certificate or Second Major Elective		3
Credit Hours		12
Semester Four		
MCLS 30420	FOREIGN LANGUAGES AND CULTURE STUDIES	3
Minor, Certificate or Second Major Elective		3
Kent Core Requirement		3
Kent Core Requirement		3
Kent Core Requirement		3
Credit Hours		15
Semester Five		
ARAB 37231	TRANSLATION PRACTICE: ARABIC	1
! TRST 30230	APPROACHES TO TRANSLATION	3
Arabic (ARAB) Upper-Division Elective (40000 level)		3
Minor, Certificate or Second Major Elective		6
Kent Core Requirement		3
Credit Hours		16
Semester Six		
ARAB 47230	ADVANCED TRANSLATION PRACTICE: ARABIC	3
Minor, Certificate or Second Major Elective		3
General Electives		9
Credit Hours		15

### Semester Seven

ARAB 37240	CONVERSATION FOR BUSINESS AND SPECIAL PURPOSES: ARABIC	3
Arabic (ARAB) Upper-Division Elective (40000 level)		3
Arabic Concentration Elective		3
Minor, Certificate or Second Major Elective		3
General Elective		3
Credit Hours		15

### Semester Eight

General Electives		10
ARAB 47240	BUSINESS AND SPECIAL TEXTS:ARABIC	3
Credit Hours		13
Minimum Total Credit Hours:		120

### French Concentration

This roadmap is a recommended semester-by-semester plan of study for this major. However, courses designated as critical (!) must be completed in the semester listed to ensure a timely graduation.

Semester One		Credits
UC 10097	DESTINATION KENT STATE: FIRST YEAR EXPERIENCE	1
French Upper-Division Elective (FR 30000 or 40000 level)		3
Kent Core Requirement		3
Kent Core Requirement		3
Kent Core Requirement		3
Kent Core Requirement		3
Credit Hours		16
Semester Two		
TRST 20009	MULTILINGUAL INFORMATION LIFECYCLE	3
French (FR) Upper-Division Elective (30000 or 40000 level)		3
Kent Core Requirement		3
Kent Core Requirement		3
Kent Core Requirement		3
Kent Core Requirement		3
Credit Hours		18
Semester Three		
ENG 20002	INTRODUCTION TO TECHNICAL WRITING or PROFESSIONAL WRITING	3
ENG 30063		
! TRST 30330	CROSS-LANGUAGE MEDIATION	3
French (FR) Upper-Division Elective (30000 or 40000 level)		3
Minor, Certificate or Second Major Elective		3
Kent Core Requirement		3
Credit Hours		15
Semester Four		
! MCLS 30420	FOREIGN LANGUAGES AND CULTURE STUDIES	3
Minor, Certificate or Second Major Elective		3
Kent Core Requirement		3
Kent Core Requirement		3
Credit Hours		12
Semester Five		
! FR 33231	TRANSLATION PRACTICE: FRENCH	1
! TRST 30230	APPROACHES TO TRANSLATION	3
French Upper-Division Elective (FR 40000 level)		3
Minor, Certificate or Second Major Elective		6

Kent Core Requirement		3
	Credit Hours	16
<b>Semester Six</b>		
FR 43230	ADVANCED TRANSLATION PRACTICE:FRENCH (WIC)	3
	Minor, Certificate or Second Major Elective	3
	General Electives	9
	Credit Hours	15
<b>Semester Seven</b>		
FR 33240	CONVERSATION FOR BUSINESS AND SPECIAL PURPOSES: FRENCH	3
	French (FR) Upper-Division Elective (30000 or 40000 level)	3
	French (FR) Upper-Division Elective (40000 level)	3
	Minor, Certificate or Second Major Elective	3
	General Elective	3
	Credit Hours	15
<b>Semester Eight</b>		
FR 43240	BUSINESS AND SPECIAL TEXTS:FRENCH (ELR)	3
	General Electives	10
	Credit Hours	13
	Minimum Total Credit Hours:	120



## German Concentration

This roadmap is a recommended semester-by-semester plan of study for this major. However, courses designated as critical (!) must be completed in the semester listed to ensure a timely graduation.

<b>Semester One</b>		<b>Credits</b>
UC 10097	DESTINATION KENT STATE: FIRST YEAR EXPERIENCE	1
	German (GER) Upper-Division Elective (30000 or 40000 level)	3
	Kent Core Requirement	3
	Kent Core Requirement	3
	Kent Core Requirement	3
	Kent Core Requirement	3
Credit Hours		16
<b>Semester Two</b>		
TRST 20009	MULTILINGUAL INFORMATION LIFECYCLE	3
	German (GER) Upper-Division Elective (30000 or 40000 level)	3
	Kent Core Requirement	3
	Kent Core Requirement	3
	Kent Core Requirement	3
	Kent Core Requirement	3
Credit Hours		18
<b>Semester Three</b>		
ENG 20002 or ENG 30063	INTRODUCTION TO TECHNICAL WRITING or PROFESSIONAL WRITING	3
! TRST 30330	CROSS-LANGUAGE MEDIATION	3
	German (GER) Upper-Division Elective (30000 or 40000 level)	3
	Minor, Certificate or Second Major Elective	3
Credit Hours		12
<b>Semester Four</b>		
! MCLS 30420	FOREIGN LANGUAGES AND CULTURE STUDIES	3
	Minor, Certificate or Second Major Elective	3
	Kent Core Requirement	3
	Kent Core Requirement	3
	Kent Core Requirement	3
Credit Hours		15
<b>Semester Five</b>		
! GER 31231	TRANSLATION PRACTICE: GERMAN	1
! TRST 30230	APPROACHES TO TRANSLATION	3
	German (GER) Upper-Division Elective (40000 level)	3
	Minor, Certificate or Second Major Elective	6
	Kent Core Requirement	3
Credit Hours		16
<b>Semester Six</b>		
GER 41230	ADVANCED TRANSLATION PRACTICE: GERMAN (ELR) (WIC)	3
	Minor, Certificate or Second Major Elective	3
	General Electives	9
Credit Hours		15
<b>Semester Seven</b>		
GER 41240	BUSINESS AND SPECIAL TEXTS: GERMAN	3
	German (GER) Upper-Division Elective (30000 or 40000 level)	3
	German (GER) Upper-Division Elective (40000 level)	3
	Minor, Certificate or Second Major Elective	3
	General Elective	3
Credit Hours		15

### Semester Eight

GER 31240	CONVERSATION FOR BUSINESS AND SPECIAL PURPOSES: GERMAN	3
General Electives		10
Credit Hours		13
Minimum Total Credit Hours:		120

## Russian Concentration

This roadmap is a recommended semester-by-semester plan of study for this major. However, courses designated as critical (!) must be completed in the semester listed to ensure a timely graduation.

Semester One		Credits
UC 10097	DESTINATION KENT STATE: FIRST YEAR EXPERIENCE	1
	Russian (RUSS) Upper-Division Elective (30000 or 40000 level)	3
	Kent Core Requirement	3
	Kent Core Requirement	3
	Kent Core Requirement	3
	Kent Core Requirement	3
Credit Hours		16
Semester Two		
TRST 20009	MULTILINGUAL INFORMATION LIFECYCLE	3
	Russian (RUSS) Upper-Division Elective (30000 or 40000 level)	3
	Kent Core Requirement	3
	Kent Core Requirement	3
	Kent Core Requirement	3
	Kent Core Requirement	3
Credit Hours		18
Semester Three		
ENG 20002 or ENG 30063	INTRODUCTION TO TECHNICAL WRITING or PROFESSIONAL WRITING	3
! TRST 30330	CROSS-LANGUAGE MEDIATION	3
	Russian (RUSS) Upper-Division Elective (30000 or 40000 level)	3
	Minor, Certificate or Second Major Elective	3
	Kent Core Requirement	3
Credit Hours		15
Semester Four		
! MCLS 30420	FOREIGN LANGUAGES AND CULTURE STUDIES	3
	Minor, Certificate or Second Major Elective	3
	Kent Core Requirement	3
	Kent Core Requirement	3
	Kent Core Requirement	3
Credit Hours		15
Semester Five		
! RUSS 32231	TRANSLATION PRACTICE: RUSSIAN	1
! TRST 30230	APPROACHES TO TRANSLATION	3
	Russian (RUSS) Upper-Division Elective (40000 level)	3
	Minor, Certificate or Second Major Elective	6
Credit Hours		13
Semester Six		
RUSS 42230	ADVANCED TRANSLATION PRACTICE: RUSSIAN (ELR) (WIC)	3
	Minor, Certificate or Second Major Elective	3
	General Electives	9
Credit Hours		15
Semester Seven		
RUSS 32240	CONVERSATION FOR BUSINESS AND SPECIAL PURPOSES: RUSSIAN	3
	Russian (RUSS) Upper-Division Elective (30000 or 40000 level)	3
	Russian (RUSS) Upper-Division Elective (40000 level)	3
	Minor, Certificate or Second Major Elective	3

General Elective	3
Credit Hours	15
Semester Eight	
RUSS 42240	BUSINESS AND SPECIAL TEXTS: RUSSIAN
General Electives	10
Credit Hours	13
Minimum Total Credit Hours:	120

## Spanish Concentration

This roadmap is a recommended semester-by-semester plan of study for this major. However, courses designated as critical (!) must be completed in the semester listed to ensure a timely graduation.

Semester One		Credits
UC 10097	DESTINATION KENT STATE: FIRST YEAR EXPERIENCE	1
Spanish (SPAN) Upper-Division Elective (30000 or 40000 level)		3
Kent Core Requirement		3
Kent Core Requirement		3
Kent Core Requirement		3
Kent Core Requirement		3
Credit Hours		16
Semester Two		
TRST 20009	MULTILINGUAL INFORMATION LIFECYCLE	3
Spanish (SPAN) Upper-Division Elective (30000 or 40000 level)		3
Kent Core Requirement		3
Kent Core Requirement		3
Kent Core Requirement		3
Kent Core Requirement		3
Credit Hours		18
Semester Three		
ENG 20002 or ENG 30063	INTRODUCTION TO TECHNICAL WRITING or PROFESSIONAL WRITING	3
! TRST 30330	CROSS-LANGUAGE MEDIATION	3
Spanish (SPAN) Upper-Division Elective (30000 or 40000 level)		3
Minor, Certificate or Second Major Elective		3
Credit Hours		12
Semester Four		
! MCLS 30420	FOREIGN LANGUAGES AND CULTURE STUDIES	3
Minor, Certificate or Second Major Elective		3
Kent Core Requirement		3
Kent Core Requirement		3
Kent Core Requirement		3
Credit Hours		15
Semester Five		
! SPAN 38231	TRANSLATION PRACTICE: SPANISH	1
! TRST 30230	APPROACHES TO TRANSLATION	3
Spanish (SPAN) Upper-Division Elective (40000 level)		3
Minor, Certificate or Second Major Elective		6
Kent Core Requirement		3
Credit Hours		16
Semester Six		
SPAN 48230	ADVANCED TRANSLATION PRACTICE: SPANISH (ELR) (WIC)	3
Minor, Certificate or Second Major Elective		3
General Electives		9
Credit Hours		15
Semester Seven		
SPAN 38240	CONVERSATION FOR BUSINESS AND SPECIAL PURPOSES: SPANISH	3
Spanish (SPAN) Upper-Division Elective (30000 or 40000 level)		3
Spanish (SPAN) Upper-Division Elective (40000 level)		3
Minor, Certificate or Second Major Elective		3

General Elective	3
Credit Hours	15
Semester Eight	
SPAN 48240	BUSINESS AND SPECIAL TEXTS: SPANISH
General Electives	10
Credit Hours	13
Minimum Total Credit Hours:	120

## Translation - M.A.

### College of Arts and Sciences

Department of Modern and Classical Language Studies

109 Satterfield Hall

Kent Campus

330-672-2150

mcls@kent.edu

www.kent.edu/mcls

## Description

The Master of Arts degree in Translation prepares students for careers in translation, language project management, international business and government.

The Translation major comprises the following concentrations:

- Arabic
- French
- German
- Japanese
- Russian
- Spanish

## Fully Offered At:

- Online
- Kent Campus

## Admission Requirements

- Bachelor's degree from an accredited college or university for unconditional admission
- Minimum 3.000 undergraduate GPA on a 4.000 point scale for unconditional admission
- Official transcript(s)
- Goal statement
- A CD or MP3/wav file with a five-minute oral sample in the applicant's first and second languages (conversational, not read from a script)
- Writing sample(s) in applicant's second language,<sup>1</sup> which should be accompanied by a signed declaration that the sample is original work and that the applicant received no help in its preparation
- Three letters of recommendation
- English language proficiency - all international students must provide proof of English language proficiency (unless they meet specific exceptions) by earning one of the following:
  - Minimum 550 TOEFL PBT score (paper-based version)
  - Minimum 79 TOEFL IBT score (Internet-based version)
  - Minimum 77 MELAB score

- Minimum 6.5 IELTS score
- Minimum 58 PTE score
- Minimum 110 Duolingo English Test score

For more information about graduate admissions, please visit the Graduate Studies admission website. For more information on international admission, visit the Office of Global Education's admission website.

<sup>1</sup> International applicants should also submit a writing sample in English.

## Program Learning Outcomes

Graduates of this program will be able to:

1. Critically examine translations based on objective and subjective criteria.
2. Translate text types of moderate difficulty in various domains from the source language into English.
3. Copy/edit their own work and that of others.
4. Articulate and defend translation choices based on a basic understanding of translation studies.
5. Identify distinguishing features of different text types that are meaningful for the translation act.
6. Research the subject matter of a text in appropriate resources.
7. Perform tasks at Intermediate High and Advanced Low levels of proficiency using the American Council on the Teaching of Foreign Languages (ACTFL) Proficiency Guidelines. Proficiency in ACTFL terms is understood to describe a range of qualities rather than an absolute norm and will vary according to task type, language function, topic and skill (listening, speaking, reading, writing).
8. Demonstrate knowledge of how to vary the register (formality level) of their speech.
9. Read somewhat longer and more complex prose that have been written for native speakers and not edited or adapted for students. They will be able to read a wide variety of text types such as poems, plays, novels, magazine articles, newspaper articles, brochures, pamphlets, menus and letters. Some texts they will understand completely; for others, they will be able to grasp the main idea and some or most details.
10. Compose routine social correspondence, take notes, write cohesive summaries and resumes, as well as narratives and descriptions in the target language.

## Program Requirements

### Major Requirements

Code	Title	Credit Hours
<b>Major Requirements</b>		
TRST 60001	GRADUATE RESEARCH AND WRITING IN TRANSLATION STUDIES	3
TRST 60009	DOCUMENTS IN MULTILINGUAL CONTEXTS	2
TRST 60010	THEORY OF TRANSLATION AND INTERPRETING	2
TRST 60011	TERMINOLOGY AND COMPUTER APPLICATIONS IN TRANSLATION	3
TRST 60012	SOFTWARE LOCALIZATION	3
Major Electives <sup>1</sup>		9

<b>Concentrations</b>	
Choose from the following:	14
Arabic	
French	
German	
Japanese	
Russian	
Spanish	
Minimum Total Credit Hours:	36

<sup>1</sup> Students may choose any graduate-level translation-related course in the Department of Modern and Classical Language Studies or other departments as appropriate and with prior approval from the graduate coordinator or from an advisor.

### Arabic Concentration Requirements

Code	Title	Credit Hours
<b>Concentration Requirements</b>		
ARAB 67010	PRACTICE OF ARABIC TRANSLATION	2
ARAB 67240	LITERARY AND CULTURAL TRANSLATION	3
ARAB 67250	COMMERCIAL, LEGAL AND DIPLOMATIC TRANSLATION	3
ARAB 67251	SCIENTIFIC, TECHNICAL AND MEDICAL TRANSLATION	3
ARAB 67979	TRANSLATION CASE STUDY	3
Minimum Total Credit Hours:		14

### French Concentration Requirements

Code	Title	Credit Hours
<b>Concentration Requirements</b>		
FR 63010	THE PRACTICE OF FRENCH TRANSLATION	2
FR 63240	LITERARY AND CULTURAL TRANSLATION	3
FR 63250	COMMERCIAL, LEGAL AND DIPLOMATIC TRANSLATION	3
FR 63251	SCIENTIFIC, TECHNICAL AND MEDICAL TRANSLATION	3
FR 63979	CASE STUDY IN TRANSLATION	3
Minimum Total Credit Hours:		14

### German Concentration Requirements

Code	Title	Credit Hours
<b>Concentration Requirements</b>		
GER 61010	THE PRACTICE OF GERMAN TRANSLATION	2
GER 61240	LITERARY AND CULTURAL TRANSLATION	3
GER 61250	COMMERCIAL, LEGAL AND DIPLOMATIC TRANSLATION	3
GER 61251	SCIENTIFIC, TECHNICAL AND MEDICAL TRANSLATION	3
GER 61979	CASE STUDY IN TRANSLATION	3
Minimum Total Credit Hours:		14

### Japanese Concentration Requirements

Code	Title	Credit Hours
<b>Concentration Requirements</b>		
JAPN 65010	THE PRACTICE OF JAPANESE TRANSLATION	2

JAPN 65240	LITERARY AND CULTURAL TRANSLATION	3
JAPN 65250	COMMERCIAL, LEGAL AND DIPLOMATIC TRANSLATION	3
JAPN 65251	SCIENTIFIC, TECHNICAL AND MEDICAL TRANSLATION	3
JAPN 65979	CASE STUDY IN TRANSLATION	3

Minimum Total Credit Hours: 14

## Russian Concentration Requirements

Code	Title	Credit Hours
<b>Concentration Requirements</b>		
RUSS 62010	THE PRACTICE OF RUSSIAN TRANSLATION	2
RUSS 62240	LITERARY AND CULTURAL TRANSLATION	3
RUSS 62250	COMMERCIAL, LEGAL AND DIPLOMATIC TRANSLATION	3
RUSS 62251	SCIENTIFIC, TECHNICAL AND MEDICAL TRANSLATION	3
RUSS 62979	CASE STUDY IN TRANSLATION	3

Minimum Total Credit Hours: 14

## Spanish Concentration Requirements

Code	Title	Credit Hours
<b>Concentration Requirements</b>		
SPAN 68010	THE PRACTICE OF SPANISH TRANSLATION	2
SPAN 68240	LITERARY AND CULTURAL TRANSLATION	3
SPAN 68250	COMMERCIAL, LEGAL AND DIPLOMATIC TRANSLATION	3
SPAN 68251	SCIENTIFIC, TECHNICAL AND MEDICAL TRANSLATION	3
SPAN 68979	CASE STUDY IN TRANSLATION	3

Minimum Total Credit Hours: 14

## Dual Degree with M.B.A. degree in Business Administration

Students have the opportunity to complete a dual degree program with the M.A. degree in Translation and the M.B.A. degree in Business Administration. A separate application must be submitted for each program. Students can view admission requirements for each program on their respective catalog page.

The Dual Degree with a M.B.A. degree in Business Administration and the M.A. degree in Translation is for students with a sufficient level of proficiency in a foreign language who wish to integrate a graduate business education with advanced translation training. This program is suitable for those whose career goals include assuming middle or executive management positions in international business or language industry enterprises or those interested in starting their own business in the language services industry.

## Dual Degree Requirements

Code	Title	Credit Hours
<b>Major Requirements</b>		
ACCT 63037	FINANCIAL ACCOUNTING FOR DECISION MAKING	2
ACCT 63038	MANAGERIAL ACCOUNTING FOR DECISION MAKING	2

ECON 62021	GLOBAL CONDITIONS AND MACROECONOMICS POLICY	2
ECON 62022	MANAGERIAL ECONOMICS	2
FIN 66050	LAW AND ETHICS	2
FIN 66060	MANAGERIAL FINANCE	2
MIS 64005	ANALYTICS FOR DECISION MAKING	2
MIS 64041	OPERATIONS, SERVICE AND SUPPLY CHAIN MANAGEMENT	2
MIS 64158	LEADERSHIP AND MANAGERIAL ASSESSMENT	2
MIS 64185	BUSINESS STRATEGY <sup>1</sup>	3
MIS 68051	BUSINESS PROFESSIONAL DEVELOPMENT I	1
MKTG 65051	MARKETING MANAGEMENT	2
TRST 60001	GRADUATE RESEARCH AND WRITING IN TRANSLATION STUDIES	3
TRST 60010	THEORY OF TRANSLATION AND INTERPRETING	2
TRST 60011	TERMINOLOGY AND COMPUTER APPLICATIONS IN TRANSLATION	3
TRST 60012	SOFTWARE LOCALIZATION	3

Second Language, Culture or other approved courses (3 credit hours if a culture or appropriate language course is used for International Elective below) 3-6

### International Electives

Translation, choose from the following:		2
FR 63010	THE PRACTICE OF FRENCH TRANSLATION	
GER 61010	THE PRACTICE OF GERMAN TRANSLATION	
JAPN 65010	THE PRACTICE OF JAPANESE TRANSLATION	
RUSS 62010	THE PRACTICE OF RUSSIAN TRANSLATION	
SPAN 68010	THE PRACTICE OF SPANISH TRANSLATION	

Commercial, Legal and Diplomatic Translation, choose from the following: 3

FR 63250	COMMERCIAL, LEGAL AND DIPLOMATIC TRANSLATION	
GER 61250	COMMERCIAL, LEGAL AND DIPLOMATIC TRANSLATION	
JAPN 65250	COMMERCIAL, LEGAL AND DIPLOMATIC TRANSLATION	
RUSS 62250	COMMERCIAL, LEGAL AND DIPLOMATIC TRANSLATION	
SPAN 68250	COMMERCIAL, LEGAL AND DIPLOMATIC TRANSLATION	

Scientific, Technical and Medical Translation, choose from the following: 3

FR 63251	SCIENTIFIC, TECHNICAL AND MEDICAL TRANSLATION	
GER 61251	SCIENTIFIC, TECHNICAL AND MEDICAL TRANSLATION	
JAPN 65251	SCIENTIFIC, TECHNICAL AND MEDICAL TRANSLATION	
RUSS 62251	SCIENTIFIC, TECHNICAL AND MEDICAL TRANSLATION	
SPAN 68251	SCIENTIFIC, TECHNICAL AND MEDICAL TRANSLATION	

Case Study in Translation, choose from the following: 3

FR 63979	CASE STUDY IN TRANSLATION	
GER 61979	CASE STUDY IN TRANSLATION	
JAPN 65979	CASE STUDY IN TRANSLATION	
RUSS 62979	CASE STUDY IN TRANSLATION	
SPAN 68979	CASE STUDY IN TRANSLATION	



Additional Business or Translation Electives, choose from the following:	12
MIS 64042 GLOBALIZATION AND TECHNOLOGY STRATEGY	
or TRST 60012 SOFTWARE LOCALIZATION	
MIS 64271 HUMAN RESOURCE MANAGEMENT	
or TRST 60013 LANGUAGE PROJECT MANAGEMENT	
MCLS elective <sup>2</sup>	
Business electives	
International elective (either unit)	
Minimum Total Credit Hours:	61

<sup>1</sup> Or approved substitute including study abroad

<sup>2</sup> Minimum 3 credits must be taken from MCLS

## Graduation Requirements

- Students in the M.A. Translation and M.B.A. dual degree program must earn a total of 61-64 credit hours. There is a minimum requirement of 31-33 credit hours from the M.B.A. program and 30-33 credit hours from the M.A. in Translation. A minimum GPA of 3.0 must be maintained.
- The M.B.A. program should be initiated before 12 credit hours in the M.A. Translation program have been completed. The M.A. in Translation is awarded upon completion of the requirements of that degree. The M.B.A. is awarded upon completion of the joint M.B.A./M.A. Translation degree program.
- Actual offerings and schedules vary from year to year and MCLS and COBA jointly provide a pre-approved recommended course of study. Students who wish to take a different course of study need to obtain separate approvals from the MCLS and COBA graduate coordinators.

## Translation Studies - Ph.D.

### College of Arts and Sciences

Department of Modern and Classical Language Studies  
109 Satterfield Hall  
Kent Campus  
330-672-2150  
mcls@kent.edu  
www.kent.edu/mcls

## Description

The Ph.D. degree in Translation Studies is a research-based program that provides advanced training in translation studies. The program focuses on translation research skills, specialized translation, computer-assisted terminology and translation, software localization and project management for the language industry. The program is designed to provide a comprehensive foundation for the development of key skills in humanistic translation and translation studies.

### Fully Offered At:

- Kent Campus

## Admission Requirements

- Master's degree in translation, a foreign language or in any other relevant discipline with prior experience or training in translation for unconditional admission
- Minimum senior-year 3.000 undergraduate GPA and/or minimum 3.500 graduate GPA for unconditional admission
- Official transcript(s)
- Proficiency in a foreign language
- Goal statement
- Essay or writing sample (7-10 pages) from a research paper on any aspect of translation (or a prospectus for a translation studies project)
- Three letters of recommendation
- English language proficiency - all international students must provide proof of English language proficiency (unless they meet specific exceptions) by earning one of the following:
  - Minimum 610 TOEFL PBT score (paper-based version)
  - Minimum 102 TOEFL IBT score (Internet-based version)
  - Minimum 86 MELAB score
  - Minimum 7.5 IELTS score
  - Minimum 73 PTE score
  - Minimum 110 Duolingo English Test score

For more information about graduate admissions, please visit the Graduate Studies admission website. For more information on international admission, visit the Office of Global Education's admission website.

## Program Learning Outcomes

Graduates of this program will be able to:

1. Demonstrate broad knowledge across several areas in the field of translation studies, as well as in-depth knowledge in an area of expertise.
2. Demonstrate the ability to design and conduct original research.
3. Critically assess translation studies literature, as well as their own empirical and theoretical findings.
4. Communicate research findings effectively in written and spoken form.
5. Follow ethical guidelines for work in the field.

## Program Requirements

### Major Requirements

Code	Title	Credit Hours
<b>Prerequisite Requirements <sup>1</sup></b>		
TRST 60009	DOCUMENTS IN MULTILINGUAL CONTEXTS	
TRST 60010	THEORY OF TRANSLATION AND INTERPRETING	
TRST 60011	TERMINOLOGY AND COMPUTER APPLICATIONS IN TRANSLATION	
TRST 60012	SOFTWARE LOCALIZATION	
TRST 60013	LANGUAGE PROJECT MANAGEMENT	
<b>Major Requirements</b>		
TRST 70001	APPLIED LINGUISTICS AND TRANSLATION INFORMATICS	3

TRST 70002	THE LANGUAGE INDUSTRY	3
TRST 70003	TERMINOLOGY STUDIES	3
TRST 70004	TRANSLATION PEDAGOGY	3
TRST 70005	CURRENT TRENDS IN TRANSLATION STUDIES	3
TRST 70006	EMPIRICAL METHODS FOR TRANSLATION STUDIES	3
TRST 70007	CORPORA IN TRANSLATION	3
TRST 70008	TRANSLATION AND COGNITION	3
TRST 80098	RESEARCH IN TRANSLATION STUDIES <sup>2</sup>	30
or TRST 80199	DISSERTATION I	
Seminar Electives, choose from the following: <sup>3</sup>		6
TRST 80091	SEMINAR IN TRANSLATION STUDIES	
TRST 80191	SEMINAR IN TRANSLATION INFORMATICS	

Minimum Total Credit Hours: 60

- <sup>1</sup> Entering students who do not demonstrate equivalent education or experience with the content of specific master's level coursework may be required to take one or more prerequisite courses.
- <sup>2</sup> Each doctoral candidate, upon admission to candidacy, must register for TRST 80199 for a total of 30 credit hours. It is required that doctoral candidates continuously register for Dissertation I, and thereafter TRST 80299, each semester, until all requirements for the degree have been met. After passing the written examination, the student must present a detailed written proposal of his/her dissertation research. The dissertation focuses on original research. The dissertation topic must fall within one or more of the sub-fields in translation studies. The written dissertation is reviewed and approved by the research adviser and the dissertation advisory committee prior to scheduling a final defense before the committee.
- <sup>3</sup> Students must select a specialization via specific combination of elective seminars.

## Department of Pan-African Studies

College of Arts and Sciences  
 Department of Pan-African Studies  
 Oscar Ritchie Hall  
 Kent Campus  
 330-672-2300  
 dpas@kent.edu  
 www.kent.edu/pas

### Undergraduate Programs

- Pan-African Studies - B.A.

### Minors

- African Studies
- Pan-African Studies

## Department of Pan-African Studies Faculty

- Crawford, Charmaine M. (2019), Associate Professor
- Gooden, Amoaba (2006), Associate Professor & Department Chair, Ph.D., Temple University, 2005
- Kumah-Abiwu, Felix (2015), Assistant Professor

- Okantah, Mwatabu S. (1991), Associate Professor, B.A., Kent State University, 1976
- Sunni-Ali, Asantewa (2016), Assistant Professor
- Syed, Idris K. (1991), Associate Professor, M.Ed., Kent State University, 2001
- Temu, M.L. Nambuo (1974), Assistant Professor, Ph.D., Kent State University, 1976
- Williams, Christopher Y. (1970), Associate Professor, Ph.D., Kent State University, 1976

## Pan-African Studies (PAS)

### PAS 10101 ELEMENTARY KISWAHILI I 4 Credit Hours

This course is an introduction to Kiswahili in which students will learn the essentials of speaking, reading and writing the most extensively used language in East Africa.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 4 lecture

**Grade Mode:** Standard Letter

### PAS 10102 ELEMENTARY KISWAHILI II 4 Credit Hours

Continuation of PAS 10101, aimed at advancing student knowledge and communication skills in Kiswahili by introducing Kiswahili literature, short narratives, proverbs, folktales.

**Prerequisite:** PAS 10101.

**Schedule Type:** Lecture

**Contact Hours:** 4 lecture

**Grade Mode:** Standard Letter

### PAS 15200 INTRODUCTION TO WEST AFRICAN CULTURES 3 Credit Hours

Drawing on history, literature and social anthropology, students learn key events and places in W. Africa from the 9th century to the 19th century, covering the Trans-Atlantic Slave trade and the development of long distance networks, including Andalusian Spain, the trans-Saharan trade, the expulsion of Jews and Moors from Spain, state formation in W. Africa, and the role of Saharan-Savannah relations in the expansion of the Atlantic Slave Trade and the movement of European and African peoples to the Americas. The development of this Atlantic world assured the economic centrality of W. Europe and eventually the US, due to the immense transfer of labor and skills from W. Africa.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

### PAS 20001 INTRODUCTION TO PAN-AFRICAN STUDIES 3 Credit Hours

This course uses an interdisciplinary approach to introduce students to the discipline and field of Pan-African Studies. Using primary source materials from literature, film and various art forms, students will be exposed to concepts, critical issues, events and major thinkers that have shaped the global Black world. Emphasis will be placed on the relationship between Peoples of African descent, Latin and Indigenous Peoples. Selected course materials represent the ways in which Peoples of African descent have demonstrated resiliency, activism and agency.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PAS 20101 KISWAHILI III 3 Credit Hours**

Continuation of Kiswahili II, aimed at developing knowledge competence and recognition of Kiswahili usage in all forms of Kiswahili literature.

**Prerequisite:** PAS 10102.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PAS 20102 KISWAHILI IV 3 Credit Hours**

Continuation of Kiswahili III, aimed at developing knowledge, competence and recognition of Kiswahili usage in all forms of Kiswahili literature.

**Prerequisite:** PAS 20101.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PAS 20200 RECOVERING THE PAST: KENT TO MEMPHIS (ELR) 3 Credit Hours**

Examines relevance of John Brown, Frederick Loudin and Fisk Jubilee Singers, and Ida B. Wells anti-lynching campaign today. Students travel to local Brown and Loudin sites, Harper's Ferry and Memphis.

**Prerequisite:** None.

**Schedule Type:** Field Experience, Lecture

**Contact Hours:** 2 lecture, 1 other

**Grade Mode:** Standard Letter

**Attributes:** Experiential Learning Requirement

**PAS 20300 BLACK IMAGES 3 Credit Hours**

Examines the historical origins of racial images and anti-black perceptions through newspapers, magazines, songs, plays, literature, textbooks, radio, television, films, comic books, etc. and the role of these images in American culture past and present.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PAS 22000 CREATIVE WRITING IN THE BLACK WORLD 3 Credit Hours**

Explores the major aesthetic and cultural issues that have historically shaped creative writing in the black world and begins by exploring the African Griot tradition. Students learn about the African-American tradition in literature as an organic part of the larger Pan-African world. Students are expected to write, perform, critique and produce original works in the modes and performance styles of the global African world.

**Prerequisite:** ENG 11011 or HONR 10197.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PAS 22101 AFRICAN AMERICAN VISUAL ARTISTS 3 Credit Hours**

An Afrocentric survey of visual and aural artistry, course examines cultural context and perspectives, mediums of expression, form, style, content and patronage of African American artists from 1800.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PAS 22200 INTRODUCTION TO THE AFRICAN ARTS 3 Credit Hours**

Investigation of function of creative forms of artistic expression particular to experiences of Pan-African community at home and abroad.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PAS 23001 BLACK EXPERIENCE I: BEGINNINGS TO 1865 (DIVG) (KHUM) 3 Credit Hours**

Study and analysis of the African experience prior to, and following the arrival of Africans in the New World. Emphasis on North and South America, Africa and Caribbean.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Diversity Global, Kent Core Humanities, Transfer Module Humanities

**PAS 23002 BLACK EXPERIENCE II: 1865 TO PRESENT (DIVD) (KHUM) 3 Credit Hours**

Covers the Black Experience from 1865 to the present, including events, ideas and persons in Africa, North and South America, and the Caribbean.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Diversity Domestic, Kent Core Humanities, Transfer Module Humanities

**PAS 23095 SPECIAL TOPICS IN PAN-AFRICAN LITERATURE AND COMMUNICATION SKILLS 1-4 Credit Hours**

(Repeatable for a maximum of 6 credit hours) Introduction to a current and specialized topic in Pan-African Literature and/or communication skills.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 1-4 lecture

**Grade Mode:** Standard Letter

**PAS 23310 NATIVE AMERICAN STUDIES 3 Credit Hours**

Study and analysis of Native American history, sovereignty and civil rights. Ensures an understanding of self-determination in the context of colonization, decolonization and neocolonization, through the use of Native American literature, philosophy, politics and other cultural outlets. Being that we all live in a broader community, students also examine historical and contemporary relationships with the African American community and other ethnic communities in the US.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PAS 24407 CARIBBEAN STUDIES (DIVG) 3 Credit Hours**

Focus on people of African descent in the West Indies and their way of life for the cultural contributions made to Pan-African communities.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Diversity Global

**PAS 25200 EAST AFRICAN-KISWAHILI CULTURES 3 Credit Hours**

Students learn about the relationship between the Kiswahili language and the cultures of East African peoples, especially those in Malawi, Mozambique, Zaire, Zambia and Zimbabwe. This includes geographical, historical and sociological perspectives and an analysis of common cultural elements (music, literature, proverbs).

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PAS 26000 THE LEGACY OF SLAVERY 3 Credit Hours**

Examines the legacy of slavery through literature about the Reconstruction and Jim Crow periods; the writings of Douglass, Washington, DuBois and Garvey; the impact of slavery on modern African American culture; and an investigation of the reparations issue.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PAS 26010 THE BLACK REVOLUTION 3 Credit Hours**

Under the umbrella of Afrocentrism, this course examines black revolutionary thought in the U.S. from historical, political, sociological and philosophical perspectives; beginning with the advent of the slave trade, it emphasizes the tools, dynamics and strategies used to ensure the success of the black revolution, which is depicted as still ongoing today and having many implications and ramifications for the future.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PAS 30001 CULTURAL EXPRESSIONS I 3 Credit Hours**

Exploration of African creative endeavors and cultures through traditionally integrated forms of music, dance and song. Some emphasis on the study of design, color and fashion merged with family, food and environment, as well as traditional African societies.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PAS 30010 AFRICAN AND AFRICAN-AMERICAN PHILOSOPHIES (DIVD) 3 Credit Hours**

(Cross-listed with PHIL 31070) Exploration of philosophical issues in African and African-American or Black thought systems. Topics may include the examination of the issue of the existence of a Black philosophy, the nature of traditional African knowledge, beliefs about personhood, the basis and rationality of witchcraft or other metaphysical beliefs, communalism, the nature of Black moral and aesthetic values, and contemporary analysis of race, racism, slavery, civil rights, pan-Africanism, and criticisms of colonialism, Black development, democratic governance and social policies regarding Blacks. Students with Junior standing or above, who have not taken a Philosophy course, should contact the department for a prerequisite override.

**Prerequisite:** One course in philosophy.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Diversity Domestic

**PAS 30310 BLACK HOLLYWOOD 3 Credit Hours**

Examines the complexities of race relations in the film industry and the need for "Hollywood" and Black filmmakers to create films for mainstream audiences with a multitude of themes from the African American experience in America and around the world.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PAS 30311 HIP HOP: THE SOCIAL, POLITICAL AND ECONOMIC INFLUENCES 3 Credit Hours**

Examines the social, political and economic influences of and on Hip-hop and analyzes the historical and current relationships between Hip-hop and mainstream America, including the role that corporate America has played. In-depth history of the culture and major pioneers and contributors.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PAS 31092 PRACTICUM IN AFRICAN THEATRE ARTS (ELR) 3-6 Credit Hours**

(Repeatable for a maximum of 12 credit hours) Exposes students to fundamental techniques of stage through auditory, visual and physical participation. (Students are evaluated in performance and related theater activities.)

**Prerequisite:** None.

**Schedule Type:** Practical Experience

**Contact Hours:** 3-6 other

**Grade Mode:** Standard Letter

**Attributes:** Experiential Learning Requirement

**PAS 32001 AFRICAN-AMERICAN LITERATURE TO 1900 3 Credit Hours**

(Cross-listed with ENG 33010) Study of African-American literature from its beginning to 1900, including such writers as Wheatley, J. Hammon, Terry, B. Hammon, Jones, Marrant, Allen, Hall, Walker, Truth, Garnet, Douglass, Delany, Harper, Stewart, Turner, Jacobs, Keckley, Brown, Wilson, Griggs, Chesnutt and Dunbar.

**Prerequisite:** ENG 21011 or HONR 10297.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PAS 32002 MODERN AFRICAN-AMERICAN LITERATURE 3 Credit Hours**

Study of African-American literature from the early twentieth century to the present. The authors include Toomer, Hughes, Larsen, Wright, Baldwin, Hansberry, Jones, Lorde, Walker, Morrison, Mosley, Youngblood and Carter.

**Prerequisite:** ENG 21011 or HONR 10297.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PAS 32050 AFRICAN LITERATURES (DIVG) 3 Credit Hours**  
(Cross-listed with ENG 33015) Examines works of major 20th-century African, African American and Caribbean writers and intellectuals.

Authors include Niane, Achebe, Emecheta, Prince, Hurston, Hughes, Césaire, Senghor, Soyinka and many others.

**Prerequisite:** ENG 11011 or HONR 10197.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Diversity Global

**PAS 33100 AFRICAN AMERICAN FAMILY IN HISTORICAL PERSPECTIVES (DIVD) 3 Credit Hours**

Examines social, political, cultural and historical factors that have influenced the development of African-American family organization, from African shores through the American experience.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Diversity Domestic

**PAS 33101 AFRICAN AMERICAN HISTORY: SLAVERY TO FREEDOM 3 Credit Hours**

(Cross-listed with HIST 31080) Survey of African American history from the colonial period to 1877. Course provides a general knowledge of the social, political and cultural history of African Americans from colonial times to the end of the Reconstruction.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PAS 33110 THE BLACK WOMAN: HISTORICAL PERSPECTIVES (DIVD) 3 Credit Hours**

Course surveys the experiences of African-American women throughout various periods of history, and their roles in shaping the social, economic, political and cultural development of societies.

**Prerequisite:** Sophomore standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Diversity Domestic

**PAS 33120 THE BLACK MAN: HISTORICAL PERSPECTIVES 3 Credit Hours**

Focuses on various roles of the African American man within the context of the African experience and the African diaspora.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PAS 33130 GENDER AND SEXUALITY IN AFRICA AND THE AFRICAN DIASPORA 3 Credit Hours**

Using lectures, videos, discussions, readings and application this course explores ways in which gender and sexuality in Africa and the African Diaspora have and can be constructed, performed, articulated and researched. Attention is also paid to the existence of LGBTQ identities within the global black community.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PAS 33171 THE AFRICAN AMERICAN COMMUNITY (DIVD) 3 Credit Hours**

Explores problems of African-American communities: public administration, transportation, health, public finance, crime and justice, geography, black/demography and education.

**Prerequisite:** Sophomore standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Diversity Domestic

**PAS 33200 ANCIENT AFRICAN CIVILIZATIONS 3 Credit Hours**

Examines the history of ancient African civilizations and their contributions to world history.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PAS 33310 LATINOS, THE AFRICAN DIASPORA AND AMERICAN SOCIETY (DIVD) 3 Credit Hours**

Introduction to Latino minorities. Focus on Mexican-Americans, Puerto Ricans and Cubans and African influences on Latino culture.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Diversity Domestic

**PAS 34000 INTRODUCTION TO AFRICAN WORLD VIEW (DIVG) 3 Credit Hours**

Investigates traditional African cosmological world views and aesthetics in global Africa. Students who do not have prerequisites may request permission from instructor.

**Prerequisite:** PAS 23001 or PAS 23002.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Diversity Global

**PAS 34100 ISLAMIC WEST AFRICA 3 Credit Hours**

Familiarizes students with the cultural and historical specificities of Islamic communities in West Africa. Beginning with the introduction of Islam into West Africa in the eighth century, this course takes a multi-disciplinary point of view and covers contemporary political issues as well as historical topics. Students are provided the analytical tools and documentation to understand contemporary religious issues in West Africa and the diversity in expression of thought and practice of Islamic West Africa.

**Prerequisite:** Sophomore standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PAS 34200 BLACK MUSIC REVISITED 3 Credit Hours**

This is a survey course in the appreciation of, as well as an investigation into, that Great Black Tradition in Music. Students explore contemporary Black music from Africa into the New World and consider African world music from the Blues, Gospel, Jazz to Bebop, Rhythm & Blues, Hip Hop and Afro-Beat to Reggae. Students also learn the significance of local and individual artists.

**Prerequisite:** PAS 23001 or PAS 23002.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter



**PAS 35100 BLACK SOCIAL AND POLITICAL THOUGHT 3 Credit Hours**

Study of the history and nature of social and political thought of African Americans including an overview of various movements and individuals, as well as their strategies and tactics, in the struggle for social change in the U.S. as it relates to black people.

**Prerequisite:** Junior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PAS 35200 AFRICAN SOCIAL AND POLITICAL SYSTEMS 3 Credit Hours**

An African-centered focus on traditional African institutions as these interact with the Jihad Movements, Western European incursion, the slave trade, colonialism, independence movements and contemporary issues.

**Prerequisite:** Junior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PAS 37000 ORAL AND WRITTEN DISCOURSES IN PAN-AFRICAN STUDIES (WIC) 3 Credit Hours**

Examines the spoken and written English of African-Americans with some emphasis on mastering consensus English writing skills required in upper-division PAS courses.

**Prerequisite:** ENG 21011 or HONR 10297.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Writing Intensive Course

**PAS 37001 THEORETICAL APPROACHES TO PAN-AFRICAN STUDIES 3 Credit Hours**

A critical analysis of the diverse approaches to and underlying principles of Pan-African Studies.

**Prerequisite:** Sophomore standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PAS 37010 RESEARCH METHODS IN PAN-AFRICAN STUDIES (ELR) 3 Credit Hours**

This course will expose students to the basic components of research methods in Pan-African studies utilizing multidisciplinary approaches.

**Prerequisite:** PAS 37000 and PAS 37001.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter-IP

**Attributes:** Experiential Learning Requirement

**PAS 37020 THE MODEL AFRICAN UNION (ELR) 3 Credit Hours**

Students examine role, structure and performance of the African Union in the search for solutions to key economic, social and political-security issues facing Africa. Students attend the annual meeting of the Model African Union Conference in Washington D.C., which is a simulation of proceedings of the African Union, augmented by briefings at African Embassies. Participants gain an understanding of the various determinants, capabilities and constraints shaping the domestic and foreign policies of African countries.

**Prerequisite:** Sophomore standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Experiential Learning Requirement

**PAS 37100 PAN-AFRICAN WOMEN'S LITERATURE (DIVG) 3 Credit Hours**

(Cross-listed with ENG 33013) Introduces students to literary works by African and Caribbean women.

**Prerequisite:** ENG 11011 or HONR 10197.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Diversity Global

**PAS 37150 THE UNDERGROUND RAILROAD 3 Credit Hours**

Examines the Underground Railroad and its impact as an American phenomenon.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PAS 37200 AFRICAN-AMERICAN WOMEN'S LITERATURE 3 Credit Hours**

(Cross-listed with ENG 33014) Introduces students to literary works by African-American women.

**Prerequisite:** ENG 11011 or HONR 10197.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PAS 40001 CULTURAL EXPRESSIONS II 3 Credit Hours**

This course continues Cultural Expressions I in greater depth and sophistication: Exploration of African creative endeavors and cultures through traditionally integrated forms of music, dance and song. Some emphasis on the study of design, color and fashion merged with family, food and environment, as well as traditional African societies.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PAS 40120 CONTEMPORARY ISSUES IN AFRICAN-AMERICAN EDUCATION 3 Credit Hours**

This course examines the interrelationship of contemporary issues and the education of people of African descent.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PAS 41192 PRACTICUM IN AFRICAN AMERICAN AFFAIRS (ELR)****1-12 Credit Hours**

(Repeatable for a maximum of 12 credit hours) Guided involvements in urban areas with large African-American populations to provide experience with community service, government agencies, public and private schools, non-profit organizations, etc.

**Prerequisite:** None.

**Schedule Type:** Practical Experience

**Contact Hours:** 3-36 other

**Grade Mode:** Standard Letter-IP

**Attributes:** Experiential Learning Requirement

**PAS 43095 SPECIAL TOPICS IN PAN-AFRICAN LITERATURE, ARTS AND CULTURES 3 Credit Hours**

(Repeatable for credit) Broadens upper division offerings in holistic study and performance in Pan-African literatures, arts and cultures.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PAS 43100 RACE, CLASS AND FEMINIST THOUGHT 3 Credit Hours**

Explores issues of race, class and gender through the lens of Black women and feminists of color.

**Prerequisite:** Junior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PAS 43200 MALCOLM AND MARTIN 3 Credit Hours**

A critical study of the major ideas and doctrines, including religious and theological beliefs, of Malcolm X and Martin L. King and their roles in American history.

**Prerequisite:** Junior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PAS 43395 SPECIAL TOPICS IN AFRICAN DIASPORA STUDIES 3 Credit Hours**

(Repeatable for a maximum of 12 credit hours) Study of selected topics related to people of African descent outside of the African continent including, but not limited to the Americas and Europe.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PAS 44095 SPECIAL TOPICS IN CONTEMPORARY AFRICA 3 Credit Hours**

(Repeatable for a total of 12 credit hours when topic varies) Study of selected topics related to contemporary Africa.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PAS 47091 SENIOR SEMINAR IN PAN-AFRICAN STUDIES (WIC) 3 Credit Hours**

Students prepare a capstone portfolio of their work to be presented to PAS faculty and develop individual topical PAS research papers for presentation before departmental faculty, students and general public.

**Prerequisite:** PAS 37010.

**Schedule Type:** Seminar

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**Attributes:** Writing Intensive Course

**PAS 47095 SPECIAL TOPICS IN THEORETICAL AND APPLIED RESEARCH 3 Credit Hours**

(Repeatable for a maximum of 12 credit hours) Selected topics in the intellectual, cultural, political and historical development of Pan-Africanism, its diverse theoretical approaches and multiple applications including the Organization of African Unity.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PAS 49093 VARIABLE TITLE WORKSHOP IN PAS 2-6 Credit Hours**

(Repeatable for credit)

**Prerequisite:** Special approval.

**Schedule Type:** Workshop

**Contact Hours:** 2-6 other

**Grade Mode:** Satisfactory/Unsatisfactory

**PAS 49095 SELECTED TOPICS 2,3 Credit Hours**

(Repeatable for credit) Scheduled topic announced. Intended to encourage further study in areas not treated adequately in standard courses. Offered irregularly by available or visiting faculty.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 2-3 lecture

**Grade Mode:** Standard Letter-IP

**PAS 49096 INDIVIDUAL INVESTIGATION 1-3 Credit Hours**

(Repeatable once for credit) Research in areas of interest not available in departmental courses. Approval by faculty member or chairperson necessary prior to registration.

**Prerequisite:** Junior or senior standing.

**Schedule Type:** Individual Investigation

**Contact Hours:** 1-3 other

**Grade Mode:** Standard Letter-IP

## African Studies - Minor

**College of Arts and Sciences**

Department of Pan-African Studies

Oscar Ritchie Hall

Kent Campus

330-672-2300

dpas@kent.edu

www.kent.edu/pas

## Description

The African Studies minor provides a broad familiarity with African history, culture and contemporary problems. Study in this program may be coordinated with relevant language study through Pan-African Studies.

## Fully Offered At:

- Kent Campus

## Admission Requirements

Admission to a minor is open to students declared in a bachelor's degree, the A.A.B. or A.A.S. degree or the A.T.S. degree (not Individualized Program major). Students declared only in the A.A. or A.S. degree or the A.T.S. degree in Individualized Program may not declare a minor. Students may not pursue a minor and a major in the same discipline.

## Minor Requirements

Code	Title	Credit Hours
<b>Minor Requirements</b>		
Minor Electives, choose from the following:		18
ANTH 48150	RELIGION: A SEARCH FOR A MEANING	
ANTH 48212	KINSHIP AND SOCIAL ORGANIZATION (DIVG)	
ARAB 11101	ELEMENTARY ARABIC I	
ARAB 11102	ELEMENTARY ARABIC II	
ARTH 22020	ART OF AFRICA, OCEANIA AND THE AMERICAS (DIVG) (KFA)	
ARTH 42025	ART OF WEST AFRICA (DIVG)	
ARTH 42026	ART OF NIGERIA (DIVG)	
ARTH 42027	ART OF CENTRAL AFRICA (DIVG)	
ECON 42075	INTERNATIONAL ECONOMIC RELATIONS	
ECON 42076	ECONOMIC DEVELOPMENT	
GEOG 31070	POPULATION AND THE ENVIRONMENT	
GEOG 37040	GEOGRAPHY OF AFRICA (DIVG)	
GEOG 41073	CONSERVATION OF NATURAL RESOURCES	
GEOG 44010	GEOGRAPHIES OF GLOBAL DEVELOPMENT (WIC)	
HIST 31130	HISTORY OF PRE-COLONIAL AFRICA TO 1880	
HIST 41132	HISTORY OF COLONIAL AFRICA, 1880-1994	
MCLS 30420	FOREIGN LANGUAGES AND CULTURE STUDIES	
MUS 42111	AFRICAN MUSIC AND CULTURES	
PAS 10101	ELEMENTARY KISWAHILI I	
PAS 10102	ELEMENTARY KISWAHILI II	
PAS 15200	INTRODUCTION TO WEST AFRICAN CULTURES	
PAS 22200	INTRODUCTION TO THE AFRICAN ARTS	
PAS 25200	EAST AFRICAN-KISWAHILI CULTURES	
PAS 32050	AFRICAN LITERATURES (DIVG)	
PAS 33200	ANCIENT AFRICAN CIVILIZATIONS	
PAS 34000	INTRODUCTION TO AFRICAN WORLD VIEW (DIVG)	
PAS 34100	ISLAMIC WEST AFRICA	
PAS 35200	AFRICAN SOCIAL AND POLITICAL SYSTEMS	
PAS 37020	THE MODEL AFRICAN UNION (ELR)	
PAS 37100	PAN-AFRICAN WOMEN'S LITERATURE (DIVG)	
PAS 43395	SPECIAL TOPICS IN AFRICAN DIASPORA STUDIES	
PAS 44095	SPECIAL TOPICS IN CONTEMPORARY AFRICA	
POL 30540	AFRICAN POLITICS (DIVG)	
POL 30840	NONGOVERNMENTAL ORGANIZATIONS	
POL 40530	POLITICS OF WAR	
POL 40560	HUMAN RIGHTS AND SOCIAL JUSTICE (DIVG)	

Minimum Total Credit Hours:

18

## Graduation Requirements

Minimum Minor GPA	Minimum Overall GPA
2.000	2.000

- Students must complete at least two upper-division (30000 or 40000 level) courses in the minor at Kent State on a graded basis (A-F).
- Minimum 6 credit hours in the minor must be upper-division coursework (30000 and 40000 level).
- Minimum 6 credit hours in the minor must be outside of the course requirements for any major or other minor the student is pursuing.
- Minimum 50 percent of the total credit hours for the minor must be taken at Kent State (in residence).

## Pan-African Studies - B.A.

### College of Arts and Sciences

Department of Pan-African Studies

Oscar Ritchie Hall

Kent Campus

330-672-2300

dpas@kent.edu

www.kent.edu/pas

## Description

The Bachelor of Arts degree Pan-African Studies covers a broad spectrum of the Pan-African experience, which allows students to investigate African connections and influences among and with other ethnic groups in the United States and other parts of the Americas and the world.

The Pan-African Studies major comprises the following concentrations:

- The **Community Activism, Strategy and Development** concentration focuses on both historical and contemporary efforts to effect change in communities of color. It examines ways in which diasporic communities and individuals have coordinated political and social strategies for survival and development in spite of racism and socio-economic challenges. The concentration prepares students to work in areas such as education, law, public service, social work, research, business, grant-writing and community organizing and development. It also provides a good foundation for those interested in graduate studies.
- The **Global and Government Systems** concentration focuses on historical and contemporary culture and politics of people of African descent in Africa and throughout the world. Using an interdisciplinary and comparative approach, this concentration prepares students to function in a diverse, global and multicultural environment, working in areas such as education, law, research, public health, international studies, political science, justice studies, foreign service and business.
- The **Race, Sex and Gender** concentration focuses on the intersection of race, sex and/or gender primarily, though not exclusively, from the perspective of people of color. It examines issues of identity for both the individual and community. This concentration prepares students to work in areas such as education, advocacy, social work, counseling, multicultural programming and student support services; it is also a good foundation for graduate study.

- **The Arts in Culture and Society** concentration focuses on the study of people of African descent in Africa, the Americas, the Caribbean, Europe, Asia and the Middle East through the study of literature, arts and culture, with some emphasis on popular as well as non-literary cultural expressions. This concentration provides insights into the challenges black communities face as well as their creativity. Career opportunities include such areas as the arts, museums, writing, multicultural programming and administration and theatre work. This concentration also provides a good foundation for those interested in continuing to graduate school in ethnic studies, art, education, comparative literature and global and world studies.

Study abroad opportunities exist at the University of Ghana, University of Cape Coast, and the West African Research Center in Senegal.

### Fully Offered At:

- Kent Campus

## Admission Requirements

The university affirmatively strives to provide educational opportunities and access to students with varied backgrounds, those with special talents and adult students who graduated from high school three or more years ago.

**Freshman Students on the Kent Campus:** The freshman admission policy on the Kent Campus is selective. Admission decisions are based upon the following: cumulative grade point average, ACT and/or SAT scores, strength of high school college preparatory curriculum and grade trends. The Admissions Office at the Kent Campus may defer the admission of students who do not meet admissions criteria but who demonstrate areas of promise for successful college study. Deferred applicants may begin their college coursework at one of seven regional campuses of Kent State University. For more information on admissions, including additional requirements for some academic programs, visit the admissions website for new freshmen.

**Freshman Students on the Regional Campuses:** Kent State campuses at Ashtabula, East Liverpool, Geauga, Salem, Stark, Trumbull and Tuscarawas, as well as the Regional Academic Center in Twinsburg, have open enrollment admission for students who hold a high school diploma, GED or equivalent.

**English Language Proficiency Requirements for International Students:** All international students must provide proof of English language proficiency (unless they meet specific exceptions) by earning a minimum 525 TOEFL score (71 on the Internet-based version), minimum 75 MELAB score, minimum 6.0 IELTS score or minimum 48 PTE score, or by completing the ESL level 112 Intensive Program. For more information on international admission, visit the Office of Global Education's admission website.

**Transfer, Transitioning and Former Students:** For more information about admission criteria for transfer, transitioning and former students, please visit the admissions website.

## Program Learning Outcomes

Graduates of this program will be able to

1. Understand at the advanced level of the core, the historical experiences of people of African descent.

2. Interact with diverse communities and be informed and engaged global citizens.
3. Relate current political and social issues facing the Pan-African world to global historical events.
4. Read, analyze and critically articulate the contemporary socio-economic, political and cultural issues facing people of African descent.

## University Requirements

All students in a bachelor's degree program at Kent State University must complete the following university requirements for graduation.

**NOTE:** University requirements may be fulfilled in this program by specific course requirements. Please see Program Requirements for details.

Destination Kent State: First Year Experience	1
Course is not required for students with 25 transfer credits, excluding College Credit Plus, or age 21+ at time of admission.	
Diversity Domestic/Global (DIVD/DIVG)	2 courses
Students must successfully complete one domestic and one global course, of which one must be from the Kent Core.	
Experiential Learning Requirement (ELR)	varies
Students must successfully complete one course or approved experience.	
Kent Core (see table below)	36-37
Writing-Intensive Course (WIC)	1 course
Students must earn a minimum C grade in the course.	
Upper-Division Requirement	39 (or 42)
Students must successfully complete 39 upper-division (numbered 30000 to 49999) credit hours to graduate. Students in a B.A. and/or B.S. degree in the College of Arts and Sciences must complete 42 upper-division credit hours.	
Total Credit Hour Requirement	120
Some bachelor's degrees require students to complete more than 120 credit hours.	

## Kent Core Requirements

Kent Core Composition (KCMP)	6
Kent Core Mathematics and Critical Reasoning (KMCR)	3
Kent Core Humanities and Fine Arts (KHUM/KFA) (min one course each)	9
Kent Core Social Sciences (KSS) (must be from two disciplines)	6
Kent Core Basic Sciences (KBS/KLAB) (must include one laboratory)	6-7
Kent Core Additional (KADL)	6
<b>Total Credit Hours:</b>	<b>36-37</b>

## Program Requirements

### Major Requirements

Code	Title	Credit Hours
<b>Major Requirements (courses count in major GPA)</b>		
PAS 20001	INTRODUCTION TO PAN-AFRICAN STUDIES	3
PAS 23001	BLACK EXPERIENCE I: BEGINNINGS TO 1865 (DIVG) (KHUM)	3
PAS 23002	BLACK EXPERIENCE II: 1865 TO PRESENT (DIVD) (KHUM)	3

PAS 37000	ORAL AND WRITTEN DISCOURSES IN PAN- AFRICAN STUDIES (WIC) <sup>1</sup>	3
PAS 37001	THEORETICAL APPROACHES TO PAN-AFRICAN STUDIES	3
PAS 37010	RESEARCH METHODS IN PAN-AFRICAN STUDIES (ELR)	3
PAS 47091	SENIOR SEMINAR IN PAN-AFRICAN STUDIES (WIC) <sup>1</sup>	3

<b>Additional Requirements (courses do not count in major GPA)</b>		
UC 10097	DESTINATION KENT STATE: FIRST YEAR EXPERIENCE	1
Foreign Language <sup>2</sup>		14-16
Kent Core Composition		6
Kent Core Mathematics and Critical Reasoning		3
Kent Core Humanities and Fine Arts (must be from fine arts category)		3
Kent Core Social Sciences (must be from two disciplines)		6
Kent Core Basic Sciences (must include one laboratory)		6-7
Kent Core Additional		6
College General Requirements (must be from Kent Core Basic Sciences) <sup>3</sup>		3
College General Requirements (must be from Kent Core Social Sciences) <sup>4</sup>		3
General Electives (total credit hours depends on earning 120 credit hours, including 42 upper-division credit hours)		36

<b>Concentrations</b>		
Choose from the following:		12
Community Activism, Strategy and Development		
Global and Government Systems		
Race, Sex and Gender		
The Arts in Culture and Society		

Minimum Total Credit Hours: 120

- <sup>1</sup> A minimum C grade must be earned to fulfill the writing-intensive requirement.
- <sup>2</sup> Students are recommended to satisfy their college language requirement with the study of an African language, such as Kiswahili. These courses fulfill the General College Requirement.
- <sup>3</sup> One additional course taken from the Kent Core Basic Sciences courses in the following College of Arts and Sciences disciplines: Anthropology (ANTH), Biological Sciences (BSCI), Chemistry (CHEM), Geography (GEOG), Geology (GEOL) or Physics (PHY). The course may not be from the student's major.
- <sup>4</sup> One additional course taken from the Kent Core Social Sciences courses in the following Arts and Sciences disciplines: Anthropology (ANTH), Geography (GEOG), Criminology and Justice Studies (CRIM), Peace and Conflict Studies (PACS), Political Science (POL), Psychology (PSYC) or Sociology (SOC). The course may not be from the student's major.

### Community Activism, Strategy and Development Concentration Requirements

Code	Title	Credit Hours
<b>Concentration Requirements (courses count in major GPA)</b>		
Concentration Electives, choose from the following:		12
HDFS 44032	NONPROFIT FUNDRAISING AND GRANTWRITING	
HIST 31082	HISTORY OF THE CIVIL RIGHTS AND BLACK POWER MOVEMENTS IN THE UNITED STATES	

PAS 20200	RECOVERING THE PAST: KENT TO MEMPHIS (ELR)	
or PAS 26000	THE LEGACY OF SLAVERY	
PAS 20300	BLACK IMAGES	
PAS 23310	NATIVE AMERICAN STUDIES	
or PAS 33310	LATINOS, THE AFRICAN DIASPORA AND AMERICAN SOCIETY (DIVD)	
PAS 26010	THE BLACK REVOLUTION	
PAS 30010	AFRICAN AND AFRICAN-AMERICAN PHILOSOPHIES (DIVD)	
or PHIL 31070	AFRICAN AND AFRICAN-AMERICAN PHILOSOPHIES (DIVD)	
PAS 33100	AFRICAN AMERICAN FAMILY IN HISTORICAL PERSPECTIVES (DIVD)	
PAS 33130	GENDER AND SEXUALITY IN AFRICA AND THE AFRICAN DIASPORA	
PAS 33171	THE AFRICAN-AMERICAN COMMUNITY (DIVD)	
PAS 35100	BLACK SOCIAL AND POLITICAL THOUGHT	
PAS 37150	THE UNDERGROUND RAILROAD	
PAS 41192	PRACTICUM IN AFRICAN AMERICAN AFFAIRS (ELR) <sup>1</sup>	
PAS 43100	RACE, CLASS AND FEMINIST THOUGHT	
POL 30310	PUBLIC POLICY ANALYSIS	
or POL 30450	URBAN POLITICS AND POLICY	
SOC 42359	SOCIAL MOVEMENTS	
or SOC 42558	WEALTH, POVERTY AND POWER	

Minimum Total Credit Hours: 12

<sup>1</sup> Maximum 3 credit hours of PAS 41192 may be applied toward the concentration.

### Global and Government Systems Concentration Requirements

Code	Title	Credit Hours
<b>Concentration Requirements (courses count in major GPA)</b>		
Concentration Electives, choose from the following:		12
ECON 42075	INTERNATIONAL ECONOMIC RELATIONS	
GEOG 37040	GEOGRAPHY OF AFRICA (DIVG)	
HIST 41132	HISTORY OF COLONIAL AFRICA, 1880-1994	
HIST 42142	AFRO-LATIN AMERICA	
PAS 23310	NATIVE AMERICAN STUDIES	
PAS 33200	ANCIENT AFRICAN CIVILIZATIONS	
or PAS 34000	INTRODUCTION TO AFRICAN WORLD VIEW (DIVG)	
PAS 34100	ISLAMIC WEST AFRICA	
PAS 35100	BLACK SOCIAL AND POLITICAL THOUGHT	
PAS 35200	AFRICAN SOCIAL AND POLITICAL SYSTEMS	
PAS 37020	THE MODEL AFRICAN UNION (ELR)	
PAS 37150	THE UNDERGROUND RAILROAD	
PAS 41192	PRACTICUM IN AFRICAN AMERICAN AFFAIRS (ELR) <sup>2</sup>	
POL 30500	INTERNATIONAL RELATIONS THEORY	
or POL 30810	POLITICS OF THE GLOBAL ECONOMY	
POL 40980	COLUMBUS PROGRAM IN STATE ISSUES (ELR) <sup>1</sup>	
or POL 40981	WASHINGTON PROGRAM IN NATIONAL ISSUES (ELR)	

Minimum Total Credit Hours: 12



<sup>1</sup> Maximum 6 credit hours of POL 40980 or POL 40981 may be applied toward the concentration.

<sup>2</sup> Maximum 3 credit hours of PAS 41192 may be applied toward the concentration.

## Race, Sex and Gender Concentration Requirements

Code	Title	Credit Hours
<b>Concentration Requirements (courses count in major GPA)</b>		
Concentration Electives, choose from the following:		12
ENG 35301	LESBIAN, GAY, BISEXUAL AND TRANSGENDER: CRITICAL PERSPECTIVES (DIVD)	
PAS 20300	BLACK IMAGES	
PAS 33110	THE BLACK WOMAN: HISTORICAL PERSPECTIVES (DIVD)	
PAS 33120	THE BLACK MAN: HISTORICAL PERSPECTIVES	
PAS 33130	GENDER AND SEXUALITY IN AFRICA AND THE AFRICAN DIASPORA	
PAS 37100 or PAS 37200	PAN-AFRICAN WOMEN'S LITERATURE (DIVG) AFRICAN-AMERICAN WOMEN'S LITERATURE	
PSYC 40625	DEVELOPMENT OF GENDER ROLE AND IDENTITY (DIVD)	
SOC 32565	SOCIOLOGY OF SEXUALITIES (DIVD)	
SOC 32570 or SOC 42568	INEQUALITY IN SOCIETIES (DIVD) RACE AND ETHNIC STUDIES (DIVD)	
WMST 30001	FEMINIST THEORY	
Minimum Total Credit Hours:		12

## The Arts in Culture and Society Concentration Requirements

Code	Title	Credit Hours
<b>Concentration Requirements (courses count in major GPA)</b>		
Concentration Electives, choose from the following:		12
MUS 42111 or MUS 42161	AFRICAN MUSIC AND CULTURES HISTORY OF JAZZ (DIVD)	
PAS 20300 or PAS 30310	BLACK IMAGES BLACK HOLLYWOOD	
PAS 22000	CREATIVE WRITING IN THE BLACK WORLD	
PAS 22101 or PAS 22200	AFRICAN AMERICAN VISUAL ARTISTS INTRODUCTION TO THE AFRICAN ARTS	
PAS 31092 or PAS 41192	PRACTICUM IN AFRICAN THEATRE ARTS (ELR) PRACTICUM IN AFRICAN AMERICAN AFFAIRS (ELR)	
PAS 32001 or PAS 32002	AFRICAN-AMERICAN LITERATURE TO 1900 MODERN AFRICAN-AMERICAN LITERATURE	
PAS 32050	AFRICAN LITERATURES (DIVG)	
PAS 34200	BLACK MUSIC REVISITED	
PAS 37100 or PAS 37200	PAN-AFRICAN WOMEN'S LITERATURE (DIVG) AFRICAN-AMERICAN WOMEN'S LITERATURE	
PAS 43095	SPECIAL TOPICS IN PAN-AFRICAN LITERATURE, ARTS AND CULTURES	
THEA 11303 or THEA 41113	THE ART OF ACTING THEATRE IN A MULTICULTURAL AMERICA (DIVD)	
Minimum Total Credit Hours:		12

<sup>1</sup> Maximum 3 credit hours of PAS 41192 may be applied toward the concentration.

## GRADUATION REQUIREMENTS

Minimum Major GPA	Minimum Overall GPA
2.000	2.000
<ul style="list-style-type: none"> <li>Minimum 9 credit hours taken for any of the concentration must be upper-division (30000 or 40000 level).</li> </ul>	

## Foreign Language College Requirement

Students pursuing the Bachelor of Arts degree in the College of Arts and Sciences must complete 14-16 credit hours of foreign language.<sup>1</sup> To complete the requirement, students have the equivalent of Elementary I and II in any language, plus one of the following options:

- Intermediate I and II of the same language<sup>2</sup>
- Elementary I and II of a second language
- Any combination of two courses from the following list:

- Intermediate I of the same language
- MCLS 10001 INTRODUCTION TO STRUCTURAL CONCEPTS FOR LANGUAGE STUDENTS
- MCLS 20091 VARIABLE CONTENT SEMINAR IN GLOBAL LITERACY: CASE STUDIES
- MCLS 21417 MULTICULTURALISM IN TODAY'S GERMANY (DIVG)
- MCLS 28404 THE LATIN AMERICAN EXPERIENCE (DIVG)

- All students with prior foreign language experience should take the foreign language placement test to determine the appropriate level at which to start. Some students may begin beyond the Elementary I level and will complete the requirement with fewer credit hours and fewer courses. This may be accomplished by (1) passing a course beyond Elementary I through Intermediate II level; (2) receiving credit through Credit by Exam (CBE), Advanced Placement (AP), International Baccalaureate (IB) or College Level Examination Program (CLEP); or (3) being designated a 'native speaker' of a non-English language (consult with the College of Arts and Sciences Advising Office for additional information). When students complete the requirement with fewer than 14 credit hours and four courses, they will complete remaining credit hours with general electives.
- Certain majors, concentrations and minors may require specific languages, limit the languages from which a student may choose or require coursework through Intermediate II. Students who plan to pursue graduate study may need particular language coursework.

## Roadmap

This roadmap is a recommended semester-by-semester plan of study for this major. However, courses designated as critical (!) must be completed in the semester listed to ensure a timely graduation.

Semester One		Credits
PAS 20001	INTRODUCTION TO PAN-AFRICAN STUDIES	3
PAS 23001	BLACK EXPERIENCE I: BEGINNINGS TO 1865 (DIVG) (KHUM)	3
UC 10097	DESTINATION KENT STATE: FIRST YEAR EXPERIENCE	1
Foreign Language		4
Kent Core Requirement		3
Credit Hours		14
Semester Two		Credits
PAS 23002	BLACK EXPERIENCE II: 1865 TO PRESENT (DIVD) (KHUM)	3
Foreign Language		4
Kent Core Requirement		3
Kent Core Requirement		3
General Elective		3
Credit Hours		16
Semester Three		Credits
Concentration Elective		3
Foreign Language		3
Kent Core Requirement		3
Kent Core Requirement		3
Kent Core Requirement		3
Credit Hours		15
Semester Four		Credits
Concentration Elective		3
Foreign Language		3
Kent Core Requirement		3
Kent Core Requirement		3
Kent Core Requirement		3
Credit Hours		15
Semester Five		Credits
!	PAS 37001 THEORETICAL APPROACHES TO PAN-AFRICAN STUDIES	3
Kent Core Requirement		3
College General Requirement		3
College General Requirement		3
General Elective		3
Credit Hours		15
Semester Six		Credits
!	PAS 37000 ORAL AND WRITTEN DISCOURSES IN PAN-AFRICAN STUDIES (WIC)	3
Concentration Electives		6
General Electives		6
Credit Hours		15
Semester Seven		Credits
!	PAS 37010 RESEARCH METHODS IN PAN-AFRICAN STUDIES (ELR)	3
General Electives		12
Credit Hours		15

### Semester Eight

!	PAS 47091 SENIOR SEMINAR IN PAN-AFRICAN STUDIES (WIC)	3
General Electives		12
Credit Hours		15
Minimum Total Credit Hours:		120

## Pan-African Studies - Minor

### College of Arts and Sciences

Department of Pan-African Studies

Oscar Ritchie Hall

Kent Campus

330-672-2300

dpas@kent.edu

www.kent.edu/pas

## Description

The Pan-African Studies minor introduces students to the experiences and accomplishments of people of African descent, wherever they may be in the world. The minor complements majors that prepare students to work in areas such as education, law, law enforcement, public service, social work, research, foreign service, business and community development.

Beyond the required courses, students may choose to focus on history, diaspora studies, politics, language, culture, arts or a general program.

### Fully Offered At:

- Kent Campus

## Admission Requirements

Admission to a minor is open to students declared in a bachelor's degree, the A.A.B. or A.A.S. degree or the A.T.S. degree (not Individualized Program major). Students declared only in the A.A. or A.S. degree or the A.T.S. degree in Individualized Program may not declare a minor. Students may not pursue a minor and a major in the same discipline.

## Minor Requirements

Code	Title	Credit Hours
<b>Minor Requirements</b>		
PAS 22200	INTRODUCTION TO THE AFRICAN ARTS	3
or PAS 33200	ANCIENT AFRICAN CIVILIZATIONS	
or PAS 34000	INTRODUCTION TO AFRICAN WORLD VIEW (DIVG)	
PAS 23001	BLACK EXPERIENCE I: BEGINNINGS TO 1865 (DIVG) (KHUM)	3
PAS 23002	BLACK EXPERIENCE II: 1865 TO PRESENT (DIVD) (KHUM)	3
PAS 35100	BLACK SOCIAL AND POLITICAL THOUGHT	3
or PAS 35200	AFRICAN SOCIAL AND POLITICAL SYSTEMS	
PAS 37000	ORAL AND WRITTEN DISCOURSES IN PAN-AFRICAN STUDIES (WIC)	3
PAS 37001	THEORETICAL APPROACHES TO PAN-AFRICAN STUDIES	3

Pan-African Studies Upper-Division Elective (PAS 30000 or 40000 level)	3
Minimum Total Credit Hours:	21

## Graduation Requirements

Minimum Minor GPA	Minimum Overall GPA
2.000	2.000

- Students must complete at least two upper-division (30000 or 40000 level) courses in the minor at Kent State on a graded basis (A-F).
- Minimum 6 credit hours in the minor must be upper-division coursework (30000 and 40000 level).
- Minimum 6 credit hours in the minor must be outside of the course requirements for any major or other minor the student is pursuing.
- Minimum 50 percent of the total credit hours for the minor must be taken at Kent State (in residence).

## Department of Philosophy

### College of Arts and Sciences

Department of Philosophy  
320 Bowman Hall  
Kent Campus  
330-672-2315  
philo@kent.edu  
www.kent.edu/philosophy

## Undergraduate Programs

- Philosophy - B.A.

## Minors

- Health Care Ethics
- Philosophy

## Graduate Programs

- Philosophy - M.A.

## Department of Philosophy Faculty

- Aldea, Andreea S. (2017), Assistant Professor, Ph.D., Emory University, 2012
- Barnbaum, Deborah R. (1997), Professor, Ph.D., University of Massachusetts, Amherst, 1996
- Byron, B. Michael (1997), Professor & Chairperson, Ph.D., University of Notre Dame, 1996
- Fernandez, Anthony (2017), Assistant Professor, Ph.D., University of South Florida, 2016
- Garchar, Kimberly K. (2008), Associate Professor, Ph.D., University of Oregon, 2006
- Ikuenobe, Polycarp A. (1997), Professor, Ph.D., Wayne State University, 1993
- Kim, Jung-Yeup (2008), Associate Professor, Ph.D., University of Hawaii-Manoa, 2008
- Norton-Smith, Thomas M. , Professor & Interim Assistant Dean
- Odell-Scott, David W. (1990), Professor & Associate Dean, Ph.D., Vanderbilt University, 1989

- Palmer, Daniel E. (2001), Associate Professor & Interim Dean, Ph.D., Purdue University, 2000
- Pereplyotchik, David (2013), Associate Professor, Ph.D., City University of New York Graduate Center, 2012
- Ryan, Frank X. (1997), Associate Professor, Ph.D., Emory University, 1996
- Smith, Deborah C. (1997), Professor, Ph.D., University of Washington, 2003
- Uher, Clarence G. (1993), Associate Lecturer, M.A., Cleveland State University, 1991
- Zavota, Gina (2003), Associate Professor, Ph.D., State University of New York-Stony Brook, 2003

## Philosophy (PHIL)

### PHIL 11001 INTRODUCTION TO PHILOSOPHY (DIVG) (KHUM) 3 Credit Hours

An introduction to the diverse methods and subject matters in philosophy. Topics may include: What are the arguments for the existence of God? Do humans have free will? Can we know anything with certainty, and how do we know anything at all? Is what we see real, or might it be only an illusion? What makes a person a person - their mind, or their physical attributes? Is the mind the brain, or is it something else?

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Diversity Global, Kent Core Humanities, TAG Arts and Humanities, Transfer Module Humanities

### PHIL 11009 CRITICAL THINKING (KADL) 3 Credit Hours

Critical thinking is essential to every aspect of life, whether reading a news report or editorial, examining a contract or other legal document, or entering into a debate. This course teaches the strategies of "cognitive self-defense" that allow students to see past false claims and avoid being deceived by misleading rhetorical strategies. The course also examines the role of argument in reasoning, including types of arguments and the ways in which mistakes in reasoning can lead us astray. Examples from everyday life illustrate the sorts of complex reasoning that are a crucial part of practical decision-making.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Kent Core Additional

### PHIL 21001 INTRODUCTION TO ETHICS (DIVG) (KHUM) 3 Credit Hours

What makes an action morally right or morally wrong, and who gets to decide? Is ethics about performing actions that are morally right, or is it about being a virtuous person? This course examines at least three competing theories about ethics, including challenges to each theory. Students get to decide which theory they think is best, but every theory presents its own strengths and weaknesses.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Diversity Global, Kent Core Humanities, TAG Arts and Humanities, Transfer Module Humanities

**PHIL 21002 INTRODUCTION TO FORMAL LOGIC (KMCR) 3 Credit Hours**

This course is designed to sharpen students' reasoning skills and to help them better understand the structure of reasoning in general. To do this, it introduces students to some formal languages, such as Propositional Logic and Predicate Logic, that represent the logical structure of deductive reasoning. Unlike natural languages such as English, these formal languages allow students to focus on the general structure of different types of arguments, without discussing the content of any particular argument. Course covers both the construction of formal proofs in these languages, and translation between them and English. The study of formal logic contributes to effective and persuasive reasoning, not only in philosophy, but in any discipline or context. It also provides effective tools for evaluating the strength of English-language arguments. The skills that students acquire in this course are thus widely applicable in their personal, professional and academic lives.

**Prerequisite:** Minimum 35 ALEKS math score; or minimum 22 ACT math score; or minimum 530 SAT math score; or MATH 00022 with a minimum C grade.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Kent Core Mathematics and Critical Reasoning, Transfer Module Mathematics

**PHIL 30015 MEDICINE AND MORALITY 3 Credit Hours**

A philosophical exploration of at least three issues related to current medical practices, which may include ethical, religious, legal and clinical aspects. Topics may include: abortion, the use of genetic technologies, organ donation and transplantation, the use of human research subjects, or end-of-life decision-making.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PHIL 30025 ENVIRONMENTAL ETHICS (ELR) 3 Credit Hours**

A philosophical examination of ethical issues in environmental studies, including topics such as: animal ethics and the sources of our food; the value of nature and environmental aesthetics; sustainability and biodiversity; ecofeminism, social justice and radical ecology; and the human response to climate change. The course is designed to complement fields of study such as geography, environmental studies and biology. **Prerequisite:** Sophomore standing

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Experiential Learning Requirement

**PHIL 31001 ANCIENT GREEK PHILOSOPHY (WIC) 3 Credit Hours**

Examination of Greek thought from its inception through Plato, Aristotle, and later philosophers who were greatly influenced by them, but who also challenged their views. The ancients made the move from explanation based on myth to philosophical explanation - what did that move involve? How did the ancients answer questions about the nature of reality, what exists, the reliability of the senses, and the types of things in the world? How did they conceive of the good life?

**Prerequisite:** At least one of PHIL 11009 or PHIL 21002 or PHIL 41038; and at least one of PHIL 11001 or PHIL 21001.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Writing Intensive Course

**PHIL 31002 MEDIEVAL PHILOSOPHY (WIC) 3 Credit Hours**

Examination of issues in medieval thought, such as the existence and nature of God, the relationship between faith and reason, the problem of universals, and the nature of causality. Selections from philosophers such as Augustine, Boethius, Aquinas, Abelard, Avicenna, Duns Scotus, and William of Ockham.

**Prerequisite:** At least one of PHIL 11009 or PHIL 21002 or PHIL 41038; and at least one of PHIL 11001 or PHIL 21001.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Writing Intensive Course

**PHIL 31003 CONTINENTAL RATIONALISM (WIC) 3 Credit Hours**

Selections from rationalists such as Descartes, Spinoza, and Leibniz. The rationalists believed that the nature of reality was best understood using rational thought alone. What did they mean by this, and how did this belief shape their wider views of the world?

**Prerequisite:** At least one of PHIL 11009 or PHIL 21002 or PHIL 41038; and at least one of PHIL 11001 or PHIL 21001.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Writing Intensive Course

**PHIL 31004 BRITISH EMPIRICISM (WIC) 3 Credit Hours**

Selections from British Empiricists such as Locke, Berkeley, and Hume. The empiricists believed that reality was best understood using sensory evidence and observational methods. What do these human investigations tell us about the nature of properties, existence, and causation?

**Prerequisite:** At least one of PHIL 11009 or PHIL 21002 or PHIL 41038; and at least one of PHIL 11001 or PHIL 21001.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Writing Intensive Course

**PHIL 31005 GERMAN CRITICAL PHILOSOPHY (WIC) 3 Credit Hours**

Selections from philosophers such as Kant, Fichte, and others who began the movement known as German idealism. These thinkers emphasized a turn towards mind as constructing the world as it appears to us.

**Prerequisite:** At least one of PHIL 11009 or PHIL 21002 or PHIL 41038; and at least one of PHIL 11001 or PHIL 21001.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Writing Intensive Course

**PHIL 31006 NINETEENTH-CENTURY PHILOSOPHY (WIC) 3 Credit Hours**

Nineteenth-century philosophy is primarily a response to German idealism. Questions in social and political philosophy, as well as in metaphysics and epistemology, are considered in the works of philosophers such as Hegel, Schelling, Schopenhauer, Marx, Kierkegaard, and Nietzsche.

**Prerequisite:** At least one of PHIL 11009, 21002, 41038; and at least one of PHIL 11001, 21001.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Writing Intensive Course

**PHIL 31010 TWENTIETH-CENTURY PHILOSOPHY (WIC) 3 Credit Hours**

Selections from representatives of the most influential schools of thought within twentieth-century philosophy; for example, existentialists such as Sartre, pragmatists such as Dewey, logical positivists such as Carnap, phenomenologists such as Heidegger, and post-structuralists such as Derrida.

**Prerequisite:** At least one of PHIL 11009 or PHIL 21002 or PHIL 41038; and at least one of PHIL 11001 or PHIL 21001.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Writing Intensive Course

**PHIL 31020 AMERICAN PHILOSOPHY (WIC) 3 Credit Hours**

Selections from principal American philosophers from colonial times to the present, such as Emerson, Peirce, William James, Dewey, Quine, and Martin Luther King. American philosophy reflects the historic values of liberty, enterprise, industry, practicality, and diversity interwoven in the fabric of American life.

**Prerequisite:** At least one of PHIL 11009, 21002, 41038; and at least one of PHIL 11001, 21001.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Writing Intensive Course

**PHIL 31030 EXISTENTIALISM 3 Credit Hours**

Examination of the themes of existentialism, which include absurdity, freedom, and the individual's relationship to the world. Philosophers studied may include Sartre, Kierkegaard, Nietzsche, Camus, de Beauvoir, Ortega y Gasset, Marcel, and Tillich. Students with junior standing or above, who have not taken a Philosophy course, should contact the department for a prerequisite override.

**Prerequisite:** One course in philosophy.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PHIL 31035 PHILOSOPHY AND JUSTICE (DIVD) 3 Credit Hours**

Consideration of topics and issues relevant to the concept of justice, as addressed by a range of classical and contemporary philosophers. Topics may include the nature of justice from feminist, libertarian, liberal, socialist, communitarian, egalitarian, and social welfare perspectives; and the application of these perspectives to practical issues such as affirmative action, democracy, equal pay, environmental justice, just war, criminal justice, civil disobedience, tort law and poverty. Students with junior standing or above, who have not taken a Philosophy [PHIL] course, should contact the department for a prerequisite override.

**Prerequisite:** One course in philosophy.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Diversity Domestic

**PHIL 31040 FEMINIST PHILOSOPHY (DIVD) 3 Credit Hours**

The course introduces feminist philosophy understood as social critique: a critique of unjust, exclusionary, and oppressive systemic practices surrounding sex, sexuality, and gender. As such, the course focuses on issues such as gender identity, sexual difference, the sex and gender binaries, gendered experience, trans embodiment, and LGBTQI marginalization. The course asks whether, and if so, how, feminist theory (more broadly) and feminist philosophy (more narrowly) could draw on canonical philosophical texts, traditions, and figures. The course focuses extensively on contemporary approaches, including queer, race, and gay and lesbian theory. Students with junior standing or above, who have not taken a philosophy course, should contact the department for a prerequisite override.

**Prerequisite:** One course in philosophy.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Diversity Domestic

**PHIL 31050 PHILOSOPHY THROUGH LITERATURE 3 Credit Hours**

This course introduces several philosophical problems via an examination of those problems and themes in works of literature. The course combines philosophical essays with works of poetry, short novels, and short stories, so as to expose students to diverse perspectives on complex philosophical problems. Students with junior standing or above, who have not taken a philosophy course should contact the department for a prerequisite override.

**Prerequisite:** One course in philosophy.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PHIL 31060 PHILOSOPHY OF ART AND BEAUTY (ELR) 3 Credit Hours**

Investigation of concepts such as the artistic object and creative expression, and examination and critique of a range of theories designed to solve various problems in the field of aesthetics, or the study of the nature and principles of artistic beauty. Examples drawn from diverse genres such as the visual arts, drama, music, and dance provide the context for discussion of topics including what makes something beautiful and what is involved in an act of creativity. Students with junior standing or above, who have not taken a Philosophy course, should contact the department for a prerequisite override.

**Prerequisite:** One course in philosophy.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Experiential Learning Requirement



**PHIL 31070 AFRICAN AND AFRICAN-AMERICAN PHILOSOPHIES (DIVD) 3 Credit Hours**

(Cross-listed with PAS 30010) Exploration of philosophical issues in African and African-American or Black thoughts systems. Topics may include the examination of the issue of the existence of a Black philosophy, the nature of traditional African knowledge, beliefs about personhood, the basis and rationality of witchcraft or other metaphysical beliefs, communalism, the nature of Black moral and aesthetic values, and contemporary analysis of race, racism, slavery, civil rights, pan-Africanism, and criticisms of colonialism, Black development, democratic governance and social policies regarding Blacks. Students with junior standing or above, who have not taken a Philosophy course, should contact the department for a prerequisite override.

**Prerequisite:** One course in philosophy.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Diversity Domestic

**PHIL 31072 AMERICAN INDIAN PHILOSOPHIES (DIVD) 3 Credit Hours**

Examination of philosophical issues and themes in American Indian world views with attention given to the reflections of contemporary native scholars. Students with junior standing or above, who have not taken a Philosophy course should contact the department for a prerequisite override.

**Prerequisite:** One course in philosophy.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Diversity Domestic

**PHIL 31075 PHILOSOPHY AND CULTURE (DIVG) 3 Credit Hours**

Critical examination of various philosophical ideas and issues from diverse cultural perspectives. Topics include pluralism, coexistence, toleration and relativism. Students with junior standing or above who have not taken a Philosophy (PHIL) course should contact the department for a prerequisite override.

**Prerequisite:** One course in philosophy.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Diversity Global

**PHIL 31080 FOUNDATIONS IN THE HISTORY AND PHILOSOPHY OF SCIENCE 3 Credit Hours**

(Cross-listed with HIST 31500) An introduction to the study of science as a social, cultural, and historical phenomenon with an emphasis on the history of science primarily in western civilization since 1500 and the major philosophical approaches to science developed in the twentieth century.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PHIL 32091 SEMINAR: PHILOSOPHICAL REFLECTIONS 3 Credit Hours**

Junior-level seminar with variable topics of philosophical interest. Please check the departmental website or contact the instructor regarding each semester's topic. Students with junior standing or above, who have not taken a Philosophy [PHIL] course, should contact the department for a prerequisite override.

**Prerequisite:** One course in philosophy.

**Schedule Type:** Seminar

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**PHIL 40005 HEALTH CARE ETHICS 3 Credit Hours**

Ethical problems in health care critically assessed, and consideration of how these specific ethical problems illuminate the ethical enterprise. Students with junior standing or above, who have not taken a philosophy course, should contact the department for a prerequisite override.

**Prerequisite:** One course in philosophy.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PHIL 40093 VARIABLE TITLE WORKSHOP IN PHILOSOPHY 1-6 Credit Hours**

(Repeatable for credit)

**Prerequisite:** Permission.

**Schedule Type:** Workshop

**Contact Hours:** 1-6 other

**Grade Mode:** Satisfactory/Unsatisfactory

**PHIL 41010 PROBLEMS IN THE PHILOSOPHY OF RELIGION 3 Credit Hours**

(Slashed with PHIL 51010) Philosophical examination of issues and problems presented by various writers in philosophy of religion.

**Prerequisite:** One of the following: PHIL 31001 or PHIL 31002 or PHIL 31003 or PHIL 31004 or PHIL 31005 or PHIL 31006 or PHIL 31010 or PHIL 31020.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PHIL 41020 SOCIAL AND POLITICAL PHILOSOPHY 3 Credit Hours**

(Slashed with PHIL 51020) Critical examination of classical and contemporary philosophical theories of the nature of society, and the state as political system that best represents a well-organized society. Topics may include the nature, existence, and justification of the state, the issue of political obligation, theories of anarchism, utopia, democracy, liberalism, communitarianism, citizenship, and patriotism, and examination of the nature of the social and political values or notions of rights, equality, and liberty.

**Prerequisite:** One of the following courses: PHIL 31001, PHIL 31002, PHIL 31003, PHIL 31004, PHIL 31005, PHIL 31006, PHIL 31010 or PHIL 31020.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PHIL 41025 PHILOSOPHY OF LAW 3 Credit Hours**

(Slashed with PHIL 51025) Critical examination of the nature, features, foundation, and function of law. Topics may include the debate between natural law theory and legal positivism, with respect to whether law and moral are necessarily connected, as well as the nature of judicial decision, constitution interpretation, the basis and elements of criminal, civil law (contract, tort) law, the grounds for obeying or disobeying bad laws, and analysis of some supreme court cases which raise philosophical issues about the nature and function of law.

**Prerequisite:** One of the following courses: PHIL 31001 or PHIL 31002 or PHIL 31003 or PHIL 31004 or PHIL 31005 or PHIL 31006 or PHIL 31010 or PHIL 31020.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PHIL 41030 ETHICAL THEORY 3 Credit Hours**

(Slashed with PHIL 51030) In this course, students will explore developments in the dominant normative theories of 20th and 21st century Anglo-American ethics, including consequentialism, deontology, virtue ethics, ethics of care, and varieties of contract theory.

**Prerequisite:** One of the following courses: PHIL 31001, PHIL 31002, PHIL 31003, PHIL 31004, PHIL 31005, PHIL 31006, PHIL 31010, or PHIL 31020.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PHIL 41033 PHILOSOPHY OF IMAGINATION 3 Credit Hours**

(Slashed with PHIL 51033) Drawing from a variety of approaches and figures in the history of philosophy, the course examines the imagination as a distinctive faculty and type of consciousness. Some of the central questions of the course are: How does the imagination relate to perception, judgment, or memory? How are we to understand the work of the imagination from an epistemic, metaphysical, moral, or aesthetic point of view? What role, if any, does the imagination play in scientific and philosophical inquiry?

**Prerequisite:** One of the following courses: PHIL 31001, PHIL 31002, PHIL 31003, PHIL 31004, PHIL 31005, PHIL 31006, PHIL 31010 or PHIL 31020.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PHIL 41034 PHILOSOPHY OF PSYCHOLOGY AND PSYCHIATRY 3 Credit Hours**

(Slashed with PHIL 51034) This course addresses the question, "What are mental disorders?" using the methods of philosophy. We consider metaphysical questions such as, "Are mental disorders natural kinds or social kinds?" and "Can we provide a reductionist account of mental disorder?", questions from Philosophy of Mind such as, "Can a theory of mind-brain dualism accommodate the possibility of mental disorder?", and ethical questions such as, "How can we hold people with personality disorders responsible for their actions without blaming them?" By addressing the nature of mental disorder from a variety of philosophical angles, we will examine not only how each subfield answers the question in isolation, but also how each subfield might complement or contradict other philosophical approaches.

**Prerequisite:** One of the following courses: PHIL 31001, PHIL 31002, PHIL 31003, PHIL 31004, PHIL 31005, PHIL 31006, PHIL 31010 or PHIL 31020.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PHIL 41035 PHILOSOPHY OF SCIENCE 3 Credit Hours**

(Slashed with PHIL 51035) What is science? What are its distinctive aims and methods, and how do they bolster the epistemic authority of scientific theories? Do sociological, historical, and cultural factors play a major role in the advancement of scientific thought? These questions, and others like them, define the philosophy of science - a branch of philosophy that deals with the metaphysical, epistemological, and normative issues that arise in the study of scientific practice.

**Prerequisite:** One of the following courses: PHIL 31001, PHIL 31002, PHIL 31003, PHIL 31004, PHIL 31005, PHIL 31006, PHIL 31010 or PHIL 31020.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PHIL 41036 PHILOSOPHY OF COGNITIVE SCIENCE 3 Credit Hours**

(Slashed with PHIL 51036) In this course, students focus on issues at the interface of philosophy, psychology, neuroscience, linguistics, and artificial intelligence. These fields, which comprise contemporary cognitive science, present the philosopher with an opportunity to clarify foundational concepts, such as computation, innateness, language, perception, and learning. Ultimately, the goal of the course is to understand various proposals about how neural computation could amount to human intelligence and consciousness.

**Prerequisite:** One of the following courses: PHIL 31001 or PHIL 31002 or PHIL 31003 or PHIL 31004 or PHIL 31005 or PHIL 31006 or PHIL 31010 or PHIL 31020.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PHIL 41037 RENAISSANCE AND EARLY MODERN PHILOSOPHY AND SCIENCE 3 Credit Hours**

(Slashed with PHIL 51037) An investigation of the work of the most important European philosophers of the 15th-17th centuries, with a particular emphasis on the interrelation between philosophy and science in their thought, and on the influence of Greek philosophy on the intellectual life of the time.

**Prerequisite:** PHIL 31001 or PHIL 31002 or PHIL 31003 or PHIL 31004 or PHIL 31005 or PHIL 31006 or PHIL 31010 or PHIL 31020.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PHIL 41038 INTERMEDIATE LOGIC 3 Credit Hours**

(Slashed with PHIL 51038; Cross-listed with CS 41038 and MATH 41038 and MATH 51038) A detailed, systematic study of symbolic logic for philosophy majors, mathematics majors, computer science majors, and anyone else interested in advanced study in logic. The aim of the course is twofold: first, to develop a facility in understanding and using symbolic logic for various purposes, and second, to understand and appreciate symbolic logic as an area of study in itself. Topics include the distinction between syntactic, object-level proofs and semantic, meta-level proofs, the distinction between axiomatic systems and natural deduction systems of object-level proofs, various systems of modal logic, and some non-classical logics. Students with junior standing or above, who have not taken a Philosophy course, should contact the department for a prerequisite override.

**Prerequisite:** One course in philosophy.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PHIL 41040 EPISTEMOLOGY 3 Credit Hours**

(Slashed with PHIL 51040) What is the difference between merely believing something to be the case and knowing it to be the case? In this course students examine various theories designed to answer this question and evaluate their respective strengths and weaknesses. The course will cover the Gettier problem that questions the traditional definition of knowledge as justified true belief, the debate between foundationalism and coherentism, the debate between internalism and externalism about justification, naturalized epistemology, and virtue epistemology.

**Prerequisite:** One of the following courses: PHIL 31001, PHIL 31002, PHIL 31003, PHIL 31004, PHIL 31005, PHIL 31006, PHIL 31010, or PHIL 31020.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PHIL 41042 METAPHYSICS 3 Credit Hours**

(Slashed with PHIL 51042) Covers several topics in contemporary analytic metaphysics. Topics may include existence, identity, things and their persistence over time, the nature of modalities and possible worlds, and the relationship between material parts and wholes.

**Prerequisite:** One of the following courses: PHIL 31001 or PHIL 31002 or PHIL 31003 or PHIL 31004 or PHIL 31005 or PHIL 31006 or PHIL 31010 or PHIL 31020.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PHIL 41045 METALOGIC 3 Credit Hours**

(Slashed with PHIL 51045) (Cross-listed with CS 41045 and CS 51045 and MATH 41045 and MATH 51045) A detailed, systematic study of metalogic for philosophy majors, mathematics majors, computer science majors, and anyone else interested in advanced study in logic. Topics include the soundness and completeness of the propositional and predicate calculi, the decidability of propositional calculus, the undecidability of predicate calculus, Gödel's incompleteness proof for languages capable of expressing arithmetic, the co-extensionality of the set of general recursive functions, abacus computable functions, and Turing computable functions, and the philosophical motivations for the Church-Turing Thesis that all computable functions are Turing computable.

**Prerequisite:** PHIL 41038.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PHIL 41048 METAETHICS 3 Credit Hours**

(Slashed with PHIL 51048) Metaethics is the study of the nature and justification of moral judgments, as distinct from ethics, which aims to articulate principles, criteria, or alternative approaches to understanding and achieving goodness and right action. Metaethics examines the concepts, ontology, psychology, and modes of justification employed within ethics. This course will explore recent developments about such questions as: which, if any, ethical judgments can be true or false; whether we can know true ethical statements; and to what kinds of properties, if any, ethical judgments and beliefs refer.

**Prerequisite:** One of the following courses: PHIL 31001, PHIL 31002, PHIL 31003, PHIL 31004, PHIL 31005, PHIL 31006, PHIL 31010, or PHIL 31020.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PHIL 41050 ANALYTIC PHILOSOPHY 3 Credit Hours**

(Slashed with PHIL 51040) Focuses on the history and continued evolution of analytic philosophy. Readings include works by philosophers such as Frege, Russell, Moore, Wittgenstein, Schlick, Carnap, Ryle, Austin, Strawson, Grice, Quine, Davidson, Kripke, Putnam, and others. The aim of the course is (i) to understand the theses and themes that commonly arise in analytic philosophy, their philosophical motivations, and the problems they face, and (ii) to become familiar with the methodologies used by analytic philosophers including (but not limited to) logical analysis, appeals to ordinary language, the use of thought experiments, and the use of possible world semantics.

**Prerequisite:** One of the following courses: PHIL 31001 or PHIL 31002 or PHIL 31003 or PHIL 31004 or PHIL 31005 or PHIL 31006 or PHIL 31010 or PHIL 31020.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PHIL 41055 PHENOMENOLOGY 3 Credit Hours**

(Slashed with PHIL 51055) In-depth study of the phenomenological movement in twentieth-century philosophy, from its origin in the thought of Edmund Husserl and his contemporaries, through such canonical thinkers as Martin Heidegger and Maurice Merleau-Ponty, to various contemporary developments. Substantial time is also devoted to considering applications of phenomenology to various disciplines in the humanities, social sciences, and arts. This is in keeping with the overall focus in this seminar on phenomenology not only as a philosophical school, but also as a methodology with broad and diverse applications.  
**Prerequisite:** One of the following courses: PHIL 31001, PHIL 31002, PHIL 31003, PHIL 31004, PHIL 31005, PHIL 31006, PHIL 31010 or PHIL 31020.

**Schedule Type:** Lecture**Contact Hours:** 3 lecture**Grade Mode:** Standard Letter**PHIL 41060 PRAGMATISM 3 Credit Hours**

(Slashed with PHIL 51060) As America's distinctive "home-grown" philosophy, pragmatism embodies the values of action, problem-solving, and consensus-building within a pluralistic society. The core of this course examines the seminal works of the classical American pragmatists: Peirce, James, and Dewey. Special attention will be devoted to a phenomenology of experience that undercuts the dualisms of mind and matter, subject and object, self and world.

**Prerequisite:** One of the following courses: PHIL 31001, PHIL 31002, PHIL 31003, PHIL 31004, PHIL 31005, PHIL 31006, PHIL 31010 or PHIL 31020.

**Schedule Type:** Lecture**Contact Hours:** 3 lecture**Grade Mode:** Standard Letter**PHIL 41065 PLATO 3 Credit Hours**

(Slashed with PHIL 51065) Detailed examination of selected Platonic dialogues, with some attention to Plato's development and dismissal of certain pre-Socratic (and Socratic) themes.

**Prerequisite:** One of the following courses: PHIL 31001, 31002, 31003, 31004, 31005, 31006, 31010 or 31020.

**Schedule Type:** Lecture**Contact Hours:** 3 lecture**Grade Mode:** Standard Letter**PHIL 41070 ARISTOTLE 3 Credit Hours**

(Slashed with PHIL 51070) Detailed examination of selected works of Aristotle, with some attention given to Aristotle's development and dismissal of certain pre-Socratic and Platonic themes.

**Prerequisite:** One of the following courses: PHIL 31001, 31002, 31003, 31004, 31005, 31006, 31010 or 31020.

**Schedule Type:** Lecture**Contact Hours:** 3 lecture**Grade Mode:** Standard Letter**PHIL 41076 CONTINENTAL PHILOSOPHY 3 Credit Hours**

(Slashed with PHIL 51076) Investigation of some figure, issue or theme in continental philosophy from Descartes to present.

**Prerequisite:** One of the following courses: PHIL 31001, 31002, 31003, 31004, 31005, 31006, 31010 or 31020.

**Schedule Type:** Lecture**Contact Hours:** 3 lecture**Grade Mode:** Standard Letter**PHIL 41080 PHILOSOPHY AND ART: 1890 - PRESENT 3 Credit Hours**

(Slashed with PHIL 51080) Exploring, with emphasis on the modern age, philosophical conceptions of art in their interplays with, especially, practicing artists' attitudes toward theory.

**Prerequisite:** None.**Schedule Type:** Lecture**Contact Hours:** 3 lecture**Grade Mode:** Standard Letter**PHIL 41091 SEMINAR IN WORLD PHILOSOPHY 3 Credit Hours**

(Slashed with PHIL 51091) (Repeatable for a maximum of 3 credit hours) Intensive primary-source reading and critical appreciation of the significant works of one or more philosophical figures or one or more philosophical issues from traditions outside the Western canon.

**Prerequisite:** One of the following courses: PHIL 31001 or PHIL 31002 or PHIL 31003 or PHIL 31004 or PHIL 31005 or PHIL 31006 or PHIL 31010 or PHIL 31020.

**Schedule Type:** Seminar**Contact Hours:** 3 other**Grade Mode:** Standard Letter**PHIL 41491 SEMINAR IN ASIAN PHILOSOPHY (DIVG) 3 Credit Hours**

(Slashed with PHIL 51491) (Repeatable a maximum of 2 times) Intensive primary-source reading and critical appreciation of the significant works of one or more philosophical figures or one or more philosophical issues from traditions in Asian philosophy.

**Prerequisite:** One of the following courses: PHIL 31001 or PHIL 31002 or PHIL 31003 or PHIL 31004 or PHIL 31005 or PHIL 31006 or PHIL 31010 or PHIL 31020.

**Schedule Type:** Seminar**Contact Hours:** 3 other**Grade Mode:** Standard Letter**Attributes:** Diversity Global**PHIL 41591 SEMINAR IN THE HISTORY OF ETHICS 3 Credit Hours**

(Slashed with PHIL 51591) (Repeatable a maximum of 2 times) Intensive primary-source reading and critical appreciation of the significant works of one or more philosophical figures or one or more philosophical issues from traditions in the history of ethics.

**Prerequisite:** One of the following courses: PHIL 31001 or PHIL 31002 or PHIL 31003 or PHIL 31004 or PHIL 31005 or PHIL 31006 or PHIL 31010 or PHIL 31020.

**Schedule Type:** Seminar**Contact Hours:** 3 other**Grade Mode:** Standard Letter**PHIL 49995 SPECIAL TOPICS 2,3 Credit Hours**

(Repeatable for credit when topic varies)

**Prerequisite:** Special approval.**Schedule Type:** Lecture**Contact Hours:** 2-3 lecture**Grade Mode:** Standard Letter**PHIL 49996 INDIVIDUAL INVESTIGATION 1-3 Credit Hours**

(Repeatable for credit with departmental approval prior to registration)

**Prerequisite:** Departmental special approval prior to registration.**Schedule Type:** Individual Investigation**Contact Hours:** 1-3 other**Grade Mode:** Standard Letter-IP

**PHIL 49999 SENIOR HONORS PROJECT (ELR) 2,3 Credit Hours**

(Repeated registration permitted with departmental approval prior to registration) Thesis or other independent study or creative project.

**Prerequisite:** Departmental permission before registration.

**Schedule Type:** Senior Project/Honors Thesis

**Contact Hours:** 2-3 other

**Grade Mode:** Standard Letter-IP

**Attributes:** Experiential Learning Requirement

**PHIL 50005 HEALTH CARE ETHICS 3 Credit Hours**

Ethical problems in health care critically assessed and consideration of how these specific ethical problems illuminate the ethical enterprise.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PHIL 50093 VARIABLE TITLE WORKSHOP IN PHILOSOPHY 1-6 Credit Hours**

(Repeatable for credit)

**Prerequisite:** Graduate standing.

**Schedule Type:** Workshop

**Contact Hours:** 3 other

**Grade Mode:** Satisfactory/Unsatisfactory

**PHIL 51010 PROBLEMS IN THE PHILOSOPHY OF RELIGION 3 Credit Hours**

(Slashed with PHIL 41010) Philosophical examination of issues and problems presented by various writers in philosophy of religion.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PHIL 51020 SOCIAL AND POLITICAL PHILOSOPHY 3 Credit Hours**

(Slashed with PHIL 41020) Critical examination of classical and contemporary philosophical theories of the nature of society, and the state as political system that best represents a well-organized society. Topics may include the nature, existence, and justification of the state, the issue of political obligation, theories of anarchism, utopia, democracy, liberalism, communitarianism, citizenship, and patriotism, and examination of the nature of the social and political values or notions of rights, equality, and liberty.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PHIL 51025 PHILOSOPHY OF LAW 3 Credit Hours**

(Slashed with PHIL 41025) Critical examination of the nature, features, foundation, and function of law. Topics may include the debate between natural law theory and legal positivism, with respect to whether law and moral are necessarily connected, as well as the nature of judicial decision, constitution interpretation, the basis and elements of criminal, civil law (contract, tort) law, the grounds for obeying or disobeying bad laws, and analysis of some supreme court cases which raise philosophical issues about the nature and function of law.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PHIL 51030 ETHICAL THEORY 3 Credit Hours**

(Slashed with PHIL 41030) In this course, students will explore developments in the dominant normative theories of 20th and 21st century Anglo-American ethics, including consequentialism, deontology, virtue ethics, ethics of care, and varieties of contract theory.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PHIL 51033 PHILOSOPHY OF IMAGINATION 3 Credit Hours**

(Slashed with PHIL 41033) Drawing from a variety of approaches and figures in the history of philosophy, the course examines the imagination as a distinctive faculty and type of consciousness. Some of the central questions of the course are: How does the imagination relate to perception, judgment, or memory? How are we to understand the work of the imagination from an epistemic, metaphysical, moral, or aesthetic point of view? What role, if any, does the imagination play in scientific and philosophical inquiry?

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PHIL 51034 PHILOSOPHY OF PSYCHOLOGY AND PSYCHIATRY 3 Credit Hours**

(Slashed with PHIL 51034) This course addresses the question, "What are mental disorders?" using the methods of philosophy. We consider metaphysical questions such as, "Are mental disorders natural kinds or social kinds?" and "Can we provide a reductionist account of mental disorder?", questions from Philosophy of Mind such as, "Can a theory of mind-brain dualism accommodate the possibility of mental disorder?", and ethical questions such as, "How can we hold people with personality disorders responsible for their actions without blaming them?" By addressing the nature of mental disorder from a variety of philosophical angles, we will examine not only how each subfield answers the question in isolation, but also how each subfield might complement or contradict other philosophical approaches.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PHIL 51035 PHILOSOPHY OF SCIENCE 3 Credit Hours**

(Slashed with PHIL 41035) What is science? What are its distinctive aims and methods, and how do they bolster the epistemic authority of scientific theories? Do sociological, historical, and cultural factors play a major role in the advancement of scientific thought? These questions, and others like them, define the philosophy of science - a branch of philosophy that deals with the metaphysical, epistemological, and normative issues that arise in the study of scientific practice.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter



**PHIL 51036 PHILOSOPHY OF COGNITIVE SCIENCE 3 Credit Hours**

(Slashed with PHIL 41036) In this course, students focus on issues at the interface of philosophy, psychology, neuroscience, linguistics, and artificial intelligence. These fields, which comprise contemporary cognitive science, present the philosopher with an opportunity to clarify foundational concepts, such as computation, innateness, language, perception, and learning. Ultimately, the goal of the course is to understand various proposals about how neural computation could amount to human intelligence and consciousness.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PHIL 51037 RENAISSANCE AND EARLY MODERN PHILOSOPHY AND SCIENCE 3 Credit Hours**

(Slashed with PHIL 41037) An investigation of the work of the most important European philosophers of the 15th-17th centuries, with a particular emphasis on the interrelation between philosophy and science in their thought, and on the influence of Greek philosophy on the intellectual life of the time.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PHIL 51038 INTERMEDIATE LOGIC 3 Credit Hours**

(Slashed with PHIL 41038) (Cross-listed with CS 41038 and MATH 41038 and MATH 51038) A detailed, systematic study of symbolic logic for philosophy majors, mathematics majors, computer science majors, and anyone else interested in advanced study in logic. The aim of the course is twofold: first, to develop a facility in understanding and using symbolic logic for various purposes, and second, to understand and appreciate symbolic logic as an area of study in itself. Topics include the distinction between syntactic, object-level proofs and semantic, meta-level proofs, the distinction between axiomatic systems and natural deduction systems of object-level proofs, various systems of modal logic, and some non-classical logics.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PHIL 51040 EPISTEMOLOGY 3 Credit Hours**

(Slashed with PHIL 41040) What is the difference between merely believing something to be the case and knowing it to be the case? In this course students examine various theories designed to answer this question and evaluate their respective strengths and weaknesses. The course will cover the Gettier problem that questions the traditional definition of knowledge as justified true belief, the debate between foundationalism and coherentism, the debate between internalism and externalism about justification, naturalized epistemology, and virtue epistemology.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PHIL 51042 METAPHYSICS 3 Credit Hours**

(Slashed with PHIL 41042) Covers several topics in contemporary analytic metaphysics. Topics may include existence, identity, things and their persistence over time, the nature of modalities and possible worlds, and the relationship between material parts and wholes.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PHIL 51045 METALOGIC 3 Credit Hours**

(Slashed with PHIL 41045) (Cross-listed with CS 41045 and CS 51045 and MATH 41045 and MATH 51045) A detailed, systematic study of metalogic for philosophy majors, mathematics majors, computer science majors, and anyone else interested in advanced study in logic. Topics include the soundness and completeness of the propositional and predicate calculi, the decidability of propositional calculus, the undecidability of predicate calculus, Gödel's incompleteness proof for languages capable of expressing arithmetic, the co-extensionality of the set of general recursive functions, abacus computable functions, and Turing computable functions, and the philosophical motivations for the Church-Turing Thesis that all computable functions are Turing computable.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PHIL 51048 METAETHICS 3 Credit Hours**

(Slashed with PHIL 41048) Metaethics is the study of the nature and justification of moral judgments, as distinct from ethics, which aims to articulate principles, criteria, or alternative approaches to understanding and achieving goodness and right action. Metaethics examines the concepts, ontology, psychology, and modes of justification employed within ethics. This course will explore recent developments about such questions as: which, if any, ethical judgments can be true or false; whether we can know true ethical statements; and to what kinds of properties, if any, ethical judgments and beliefs refer.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PHIL 51050 ANALYTIC PHILOSOPHY 3 Credit Hours**

(Slashed with PHIL 41050) Focuses on the history and continued evolution of analytic philosophy. Readings include works by philosophers such as Frege, Russell, Moore, Wittgenstein, Schlick, Carnap, Ryle, Austin, Strawson, Grice, Quine, Davidson, Kripke, Putnam, and others. The aim of the course is (i) to understand the theses and themes that commonly arise in analytic philosophy, their philosophical motivations, and the problems they face, and (ii) to become familiar with the methodologies used by analytic philosophers including (but not limited to) logical analysis, appeals to ordinary language, the use of thought experiments, and the use of possible world semantics.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PHIL 51055 PHENOMENOLOGY 3 Credit Hours**

(Slashed with PHIL 41055) In-depth study of the phenomenological movement in twentieth-century philosophy, from its origin in the thought of Edmund Husserl and his contemporaries, through such canonical thinkers as Martin Heidegger and Maurice Merleau-Ponty, to various contemporary developments. Substantial time is also devoted to considering applications of phenomenology to various disciplines in the humanities, social sciences, and arts. This is in keeping with the overall focus in this seminar on phenomenology not only as a philosophical school, but also as a methodology with broad and diverse applications.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PHIL 51060 PRAGMATISM 3 Credit Hours**

(Slashed with PHIL 41060) As America's distinctive "home-grown" philosophy, pragmatism embodies the values of action, problem-solving, and consensus-building within a pluralistic society. The core of this course examines the seminal works of the classical American pragmatists: Peirce, James, and Dewey. Special attention will be devoted to a phenomenology of experience that undercuts the dualisms of mind and matter, subject and object, self and world.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PHIL 51065 PLATO 3 Credit Hours**

(Slashed with PHIL 51065) Detailed examination of selected platonic dialogues, with some attention to Plato's development and dismissal of certain pre-Socratic (and Socratic) themes.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PHIL 51070 ARISTOTLE 3 Credit Hours**

(Slashed with PHIL 41070) Detailed examination of selected works of Aristotle, with some attention given to Aristotle's development and dismissal of certain pre-Socratic and Platonic themes.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PHIL 51076 CONTINENTAL PHILOSOPHY 3 Credit Hours**

(Slashed with PHIL 41076) Investigation of some figure, issue or theme in continental philosophy from Descartes to present.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PHIL 51080 PHILOSOPHY AND ART: 1890 - PRESENT 3 Credit Hours**

(Slashed with PHIL 41080) Exploring, with emphasis, on the modern age philosophical conceptions of art in their interplays with, especially, practicing artists' attitudes toward theory.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PHIL 51091 SEMINAR IN WORLD PHILOSOPHY 3 Credit Hours**

(Slashed with PHIL 41091) (Repeatable for a maximum of 3 credit hours) Intensive primary-source reading and critical appreciation of the significant works of one or more philosophical figures or one or more philosophical issues from traditions outside the Western canon.

**Prerequisite:** Graduate standing.

**Schedule Type:** Seminar

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**PHIL 51491 SEMINAR IN ASIAN PHILOSOPHY 3 Credit Hours**

(Slashed with PHIL 41491) (Repeatable for a maximum of 2 times) Intensive primary-source reading and critical appreciation of the significant works of one or more philosophical figures or one or more philosophical issues from traditions in Asian philosophy.

**Prerequisite:** Graduate standing.

**Schedule Type:** Seminar

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**PHIL 51591 SEMINAR IN THE HISTORY OF ETHICS 3 Credit Hours**

(Slashed with PHIL 41591) (Repeatable twice for credit) Intensive primary-source reading and critical appreciation of the significant works of one or more philosophical figures or one or more philosophical issues from traditions in the history of ethics.

**Prerequisite:** Graduate standing.

**Schedule Type:** Seminar

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**PHIL 59995 SPECIAL TOPICS 3 Credit Hours**

(Repeatable for credit) When content varies, may be repeated for credit.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PHIL 59996 INDIVIDUAL INVESTIGATION 1-3 Credit Hours**

(Repeatable for credit with department approval)

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Individual Investigation

**Contact Hours:** 1-3 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**PHIL 60191 GRADUATE SEMINAR 3 Credit Hours**

(Repeatable for credit) Intensive primary-source reading and critical appreciation of the significant works of one or more philosophical figures or one or more philosophical issues.

**Prerequisite:** Graduate standing.

**Schedule Type:** Seminar

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PHIL 60201 SEMINAR:HISTORY OF PHILOSOPHY 3 Credit Hours**

Intensive primary-source reading and critical appreciation of the significant works of one or more historical philosophers (other than Plato and Aristotle) or one or more historical philosophical issues.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PHIL 61000 RESPONSIBLE CONDUCT OF RESEARCH 1 Credit Hour**

(Cross-listed with BMS 61000 and BMS 71000) Introduction into professional and ethical conduct of research. Topics include codes and laws governing research, identification of scientific misconduct, plagiarism, authorship and intellectual properties, ethical animal and human research.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 1 lecture

**Grade Mode:** Standard Letter

**PHIL 61050 PHILOSOPHY OF LANGUAGE 3 Credit Hours**

Critical examination of nature and function of language especially in relation to mental function and development.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PHIL 61055 SEMEIOTICS 3 Credit Hours**

(Cross-listed with MCLS 60020) An introduction to contemporary theories of semeiotics and to the application of those theories to linguistics, literature, translation and technology.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PHIL 61056 HERMENEUTICS 3 Credit Hours**

Critical appreciation of the theories and practices of interpretation comprehended according to certain classical, current and emergent philosophic styles and traditions.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PHIL 69101 GRADUATE PROSEMINAR 3 Credit Hours**

Students participate in the preparation and planning of the annual Graduate Student Conference, receive professional training and mentoring, and work closely with faculty to write and revise a philosophical essay suitable for use as a writing sample or conference presentation.

**Prerequisite:** Graduate standing.

**Schedule Type:** Seminar

**Contact Hours:** 3 lecture

**Grade Mode:** Satisfactory/Unsatisfactory

**PHIL 69194 COLLEGE TEACHING OF PHILOSOPHY 1 Credit Hour**

(Repeatable for credit) Discussion, critique and development of concepts to guide the teaching of philosophy including concepts of procedures and tactics for planning, pacing, presenting, representing and reviewing philosophic texts figures and issues.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 1 lecture

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**PHIL 69198 FIRST YEAR PAPER 1 Credit Hour**

Research paper for graduate students conducted under direction of the advisory group.

**Prerequisite:** Graduate standing.

**Schedule Type:** Research

**Contact Hours:** 1 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**PHIL 69199 THESIS I 2-6 Credit Hours**

Thesis students must register for a total of 6 hours, 2 to 6 hours in a single semester distributed over several semesters if desired.

**Prerequisite:** Graduate standing; and departmental special approval before registration.

**Schedule Type:** Masters Thesis

**Contact Hours:** 2-6 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**PHIL 69299 THESIS II 2 Credit Hours**

Thesis students must continue registration each semester until all degree requirements are met.

**Prerequisite:** PHIL 69199; and graduate standing.

**Schedule Type:** Masters Thesis

**Contact Hours:** 3 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**PHIL 69995 SPECIAL TOPICS 3 Credit Hours**

(Repeatable for credit) Selected topics in Philosophy.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PHIL 69997 COLLOQUIUM 1 Credit Hour**

(Repeatable for credit) Student, faculty and invited guests participate in conference-like contexts to present and discuss issues of current philosophic interest.

**Prerequisite:** Graduate standing.

**Schedule Type:** Colloquium

**Contact Hours:** 1 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**PHIL 69998 RESEARCH 1-15 Credit Hours**

(Repeatable for credit) Research or individual investigation for master's level graduate students. Credits earned may be applied toward meeting degree requirements.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Research

**Contact Hours:** 1-15 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

## Health Care Ethics - Minor

### College of Arts and Sciences

Department of Philosophy

320 Bowman Hall

Kent Campus

330-672-2315

philo@kent.edu

www.kent.edu/philosophy

## Description

The Health Care Ethics minor is a concentration of courses offered by disciplines within the university concerned with health care practices and the education of health care practitioners. The minor heightens students' awareness of what constitutes ethical concerns, problems and activity from the perspectives of various kinds of health care practitioners, clients and institutions. Various views of what constitutes the ethical are examined so that students are alerted both to the conceptual dimension of ethical activity and to the existence of differing and conflicting modes of ethical reasoning.

**Fully Offered At:**

- Kent Campus

**Admission Requirements**

Admission to a minor is open to students declared in a bachelor's degree, the A.A.B. or A.A.S. degree or the A.T.S. degree (not Individualized Program major). Students declared only in the A.A. or A.S. degree or the A.T.S. degree in Individualized Program may not declare a minor. Students may not pursue a minor and a major in the same discipline.

**Minor Requirements**

Code	Title	Credit Hours
<b>Minor Requirements</b>		
BSCI 30050	HUMAN GENETICS	3
HED 21050	HEALTH EDUCATION THEORIES	3
PHIL 21001	INTRODUCTION TO ETHICS (DIVG) (KHUM)	3
PHIL 40005	HEALTH CARE ETHICS	3
SOC 42563	SOCIOLOGY OF HEALTH AND HEALTH CARE	3
Minor Electives, choose from the following:		9
BSCI 20021	BASIC MICROBIOLOGY	
BSCI 40020	BIOLOGY OF AGING	
HED 14020	MEDICAL TERMINOLOGY	
HED 42041	HEALTH COACHING	
PHIL 30015	MEDICINE AND MORALITY <sup>1</sup>	
PHIL 41030	ETHICAL THEORY	
SOC 42010	DEATH AND DYING	
Minimum Total Credit Hours:		24

<sup>1</sup> PHIL 30015 is recommended but not required.

**Graduation Requirements**

Minimum Minor GPA	Minimum Overall GPA
2.000	2.000

- Students must complete at least two upper-division (30000 or 40000 level) courses in the minor at Kent State on a graded basis (A-F).
- Minimum 6 credit hours in the minor must be upper-division coursework (30000 and 40000 level).
- Minimum 6 credit hours in the minor must be outside of the course requirements for any major or other minor the student is pursuing.
- Minimum 50 percent of the total credit hours for the minor must be taken at Kent State (in residence).

**Philosophy - B.A.****College of Arts and Sciences**

Department of Philosophy

320 Bowman Hall

Kent Campus

330-672-2315

philo@kent.edu

www.kent.edu/philosophy

**Description**

The Bachelor of Arts degree in Philosophy gives students the opportunity to consider some of life's biggest questions, such as

- 'What is the nature of reality?'
- 'What (if anything) can I know with certainty?'
- 'What kind of life should I live?'

Philosophy students read, discuss and analyze texts from all of the traditional philosophical areas of study and historical periods. They become familiar with contemporary schools of thought and learn about the application of philosophy to other disciplines and professions. The program familiarizes students not only with the Western philosophical tradition, but also with schools of thought from a broad spectrum of non-Western cultures. The Philosophy major provides intensive training in argumentative writing, careful reading and critical and creative thinking, while also broadening students' intellectual, cultural and personal horizons.

The flexibility of the major's curriculum allows students to combine it with other majors or minors, depending on their career interests. In this way, students can tailor their educational experience to provide excellent preparation for a wide range of careers, including law, business, medicine, technology, public relations, government, journalism, education, writing, editing, communications and social work.

**Fully Offered At:**

- Kent Campus

**Admission Requirements**

The university affirmatively strives to provide educational opportunities and access to students with varied backgrounds, those with special talents and adult students who graduated from high school three or more years ago.

**Freshman Students on the Kent Campus:** The freshman admission policy on the Kent Campus is selective. Admission decisions are based upon the following: cumulative grade point average, ACT and/or SAT scores, strength of high school college preparatory curriculum and grade trends. The Admissions Office at the Kent Campus may defer the admission of students who do not meet admissions criteria but who demonstrate areas of promise for successful college study. Deferred applicants may begin their college coursework at one of seven regional campuses of Kent State University. For more information on admissions, including additional requirements for some academic programs, visit the admissions website for new freshmen.

**Freshman Students on the Regional Campuses:** Kent State campuses at Ashtabula, East Liverpool, Geauga, Salem, Stark, Trumbull and Tuscarawas, as well as the Regional Academic Center in Twinsburg, have open enrollment admission for students who hold a high school diploma, GED or equivalent.

**English Language Proficiency Requirements for International Students:**

All international students must provide proof of English language proficiency (unless they meet specific exceptions) by earning a minimum 525 TOEFL score (71 on the Internet-based version), minimum 75 MELAB score, minimum 6.0 IELTS score or minimum 48 PTE score, or by completing the ESL level 112 Intensive Program. For more information on international admission, visit the Office of Global Education's admission website.

**Transfer, Transitioning and Former Students:** For more information about admission criteria for transfer, transitioning and former students, please visit the admissions website.

## Program Learning Outcomes

Graduates of this program will be able to:

1. Read, write and think critically and analytically.
2. Consider and analyze differing viewpoints and various sides of an issue.
3. Construct strong arguments and express them verbally and in writing.
4. Think creatively and see alternative solutions to problems.
5. Communicate effectively in both personal and professional settings.
6. Demonstrate meaningful global literacy.
7. Continue on a path of lifelong learning and inquiry, whether in graduate school or independently.
8. Demonstrate a broad knowledge of the history of philosophy and of important contemporary questions, as well as a deeper, more specialized understanding of selected philosophical figures, issues and/or areas of inquiry.

## University Requirements

All students in a bachelor's degree program at Kent State University must complete the following university requirements for graduation.

**NOTE:** University requirements may be fulfilled in this program by specific course requirements. Please see Program Requirements for details.

Destination Kent State: First Year Experience	1
Course is not required for students with 25 transfer credits, excluding College Credit Plus, or age 21+ at time of admission.	
Diversity Domestic/Global (DIVD/DIVG)	2 courses
Students must successfully complete one domestic and one global course, of which one must be from the Kent Core.	
Experiential Learning Requirement (ELR)	varies
Students must successfully complete one course or approved experience.	
Kent Core (see table below)	36-37
Writing-Intensive Course (WIC)	1 course
Students must earn a minimum C grade in the course.	
Upper-Division Requirement	39 (or 42)
Students must successfully complete 39 upper-division (numbered 30000 to 49999) credit hours to graduate. Students in a B.A. and/or B.S. degree in the College of Arts and Sciences must complete 42 upper-division credit hours.	
Total Credit Hour Requirement	120
Some bachelor's degrees require students to complete more than 120 credit hours.	

## Kent Core Requirements

Kent Core Composition (KCMP)	6
Kent Core Mathematics and Critical Reasoning (KMCR)	3
Kent Core Humanities and Fine Arts (KHUM/KFA) (min one course each)	9
Kent Core Social Sciences (KSS) (must be from two disciplines)	6
Kent Core Basic Sciences (KBS/KLAB) (must include one laboratory)	6-7

Kent Core Additional (KADL)	6
<b>Total Credit Hours:</b>	<b>36-37</b>

## Program Requirements

### Major Requirements

Code	Title	Credit Hours
<b>Major Requirements (courses count in major GPA)</b>		
PHIL 11001	INTRODUCTION TO PHILOSOPHY (DIVG) (KHUM)	3
PHIL 21001	INTRODUCTION TO ETHICS (DIVG) (KHUM)	3
PHIL 21002	INTRODUCTION TO FORMAL LOGIC (KMCR)	3
or PHIL 41038	INTERMEDIATE LOGIC	
History of Philosophy Electives		
PHIL 31001	ANCIENT GREEK PHILOSOPHY (WIC) <sup>1</sup>	3
or PHIL 31002	MEDIEVAL PHILOSOPHY (WIC)	
PHIL 31003	CONTINENTAL RATIONALISM (WIC) <sup>1</sup>	3
or PHIL 31004	BRITISH EMPIRICISM (WIC)	
or PHIL 31005	GERMAN CRITICAL PHILOSOPHY (WIC)	
PHIL 31006	NINETEENTH-CENTURY PHILOSOPHY (WIC) <sup>1</sup>	3
or PHIL 31010	TWENTIETH-CENTURY PHILOSOPHY (WIC)	
or PHIL 31020	AMERICAN PHILOSOPHY (WIC)	
Philosophy (PHIL) Upper-Division Electives (30000 or 40000 level)		9
Philosophy (PHIL) Upper-Division Electives (40000 level)		9
<b>Additional Requirements (courses do not count in major GPA)</b>		
UC 10097	DESTINATION KENT STATE: FIRST YEAR EXPERIENCE	1
Foreign Language (see Foreign Language College Requirement below)		14-16
Kent Core Composition		6
Kent Core Mathematics and Critical Reasoning		3
Kent Core Fine Arts		3
Kent Core Social Sciences (must be from two disciplines)		6
Kent Core Basic Sciences (must include one laboratory)		6-7
Kent Core Additional		6
College General Requirement (must be from Kent Core Basic Sciences) <sup>2</sup>		3
College General Requirement (must be from Kent Core Social Sciences) <sup>3</sup>		3
General Electives (total credit hours depends on earning 120 credit hours, including 42 upper-division credit hours)		33
Minimum Total Credit Hours:		120

<sup>1</sup> One course from any of the groups must be earned with a minimum C grade to fulfill the writing-intensive requirement.

<sup>2</sup> One additional course taken from the Kent Core Basic Science courses in the following Arts and Sciences disciplines: Anthropology (ANTH), Biology (BSCI), Chemistry (CHEM), Geography (GEOG), Geology (GEOL) or Physics (PHY). The course may not be from the student's major.

<sup>3</sup> One additional course taken from the Kent Core Social Sciences courses in the following Arts and Sciences disciplines: Anthropology (ANTH), Geography (GEOG), Criminology and Justice Studies (CRIM), Peace and Conflict Studies (PACS), Political Science (POL), Psychology (PSYC) or Sociology (SOC). The course may not be from the student's major.



## Graduation Requirements

Minimum Major GPA	Minimum Overall GPA
2.000	2.000

- To fulfill the domestic diversity requirement, students must take one diversity course that is not a PHIL course.

### Foreign Language College Requirement

Students pursuing the Bachelor of Arts degree in the College of Arts and Sciences must complete 14-16 credit hours of foreign language.<sup>1</sup>

To complete the requirement, students have the equivalent of Elementary I and II in any language, plus one of the following options:

1. Intermediate I and II of the same language<sup>2</sup>
2. Elementary I and II of a second language
3. Any combination of two courses from the following list:
  - Intermediate I of the same language
  - MCLS 10001 INTRODUCTION TO STRUCTURAL CONCEPTS FOR LANGUAGE STUDENTS
  - MCLS 20091 VARIABLE CONTENT SEMINAR IN GLOBAL LITERACY: CASE STUDIES
  - MCLS 21417 MULTICULTURALISM IN TODAY'S GERMANY (DIVG)
  - MCLS 28404 THE LATIN AMERICAN EXPERIENCE (DIVG)

<sup>1</sup> All students with prior foreign language experience should take the foreign language placement test to determine the appropriate level at which to start. Some students may begin beyond the Elementary I level and will complete the requirement with fewer credit hours and fewer courses. This may be accomplished by (1) passing a course beyond Elementary I through Intermediate II level; (2) receiving credit through Credit by Exam (CBE), Advanced Placement (AP), International Baccalaureate (IB) or College Level Examination Program (CLEP); or (3) being designated a 'native speaker' of a non-English language (consult with the College of Arts and Sciences Advising Office for additional information). When students complete the requirement with fewer than 14 credit hours and four courses, they will complete remaining credit hours with general electives.

<sup>2</sup> Certain majors, concentrations and minors may require specific languages, limit the languages from which a student may choose or require coursework through Intermediate II. Students who plan to pursue graduate study may need particular language coursework.

## Roadmap

This roadmap is a recommended semester-by-semester plan of study for this major. However, courses designated as critical (!) must be completed in the semester listed to ensure a timely graduation.

Semester One		Credits
PHIL 11001	INTRODUCTION TO PHILOSOPHY (DIVG) (KHUM)	3
UC 10097	DESTINATION KENT STATE: FIRST YEAR EXPERIENCE	1
Kent Core Requirement		3
Kent Core Requirement		3
General Elective		3
Credit Hours		13
Semester Two		Credits
Kent Core Requirement		3
Kent Core Requirement		3
Kent Core Requirement		3
Kent Core Requirement		3
General Elective		3
Credit Hours		15
Semester Three		Credits
PHIL 21001	INTRODUCTION TO ETHICS (DIVG) (KHUM)	3
Foreign Language		4
Kent Core Requirement		3
College General Requirement		3
College General Requirement		3
Credit Hours		16
Semester Four		Credits
PHIL 21002	INTRODUCTION TO FORMAL LOGIC (KMCR) or INTERMEDIATE LOGIC	3
PHIL 41038		
Foreign Language		4
Kent Core Requirement		3
General Electives		6
Credit Hours		16
Semester Five		Credits
History of Philosophy Elective		3
Foreign Language		3
Kent Core Requirement		3
Kent Core Requirement		3
General Elective		3
Credit Hours		15
Semester Six		Credits
History of Philosophy Elective		3
Philosophy (PHIL) Upper-Division Electives (30000 or 40000 level)		6
Foreign Language		3
General Elective		3
Credit Hours		15
Semester Seven		Credits
History of Philosophy Elective		3
Philosophy (PHIL) Upper-Division Elective (30000 or 40000 level)		3
Philosophy (PHIL) Upper-Division Elective (40000 level)		3
General Electives		6
Credit Hours		15
Semester Eight		Credits
Philosophy (PHIL) Upper-Division Electives (40000 level)		6

General Electives	9
Credit Hours	15
Minimum Total Credit Hours:	120

## Philosophy - M.A.

### College of Arts and Sciences

Department of Philosophy  
320 Bowman Hall  
Kent Campus  
330-672-2315  
philo@kent.edu  
www.kent.edu/philosophy

## Description

The Master of Arts degree in Philosophy offers intensive, in-depth study of philosophy, with particular attention to the diversity of philosophical methods, perspectives and traditions, as well as their relation to other disciplines.

### Fully Offered At:

- Kent Campus

## Admission Requirements

- Bachelor's degree from an accredited college or university for unconditional admission
- Minimum 3.000 undergraduate GPA on a 4.000 point scale for unconditional admission
- Official transcript(s)
- A writing sample
- Goal statement
- Three letters of recommendation
- English language proficiency - all international students must provide proof of English language proficiency (unless they meet specific exceptions) by earning one of the following:
  - Minimum 587 TOEFL PBT score (paper-based version)
  - Minimum 94 TOEFL IBT score (Internet-based version)
  - Minimum 82 MELAB score
  - Minimum 7.0 IELTS score
  - Minimum 65 PTE score
  - Minimum 120 Duolingo English Test score

For more information about graduate admissions, please visit the Graduate Studies admission website. For more information on international admission, visit the Office of Global Education's admission website.

## Program Learning Outcomes

Graduates of this program will be able to:

1. Demonstrate knowledge of the history of philosophy from the classical period to the present day, of the various fields of philosophical inquiry, and of central philosophical questions, both historical and contemporary.

- Articulate and defend their positions through philosophical argumentation in both written and oral form.
- Successfully navigate the professional academic world and prepare strong applications to doctoral programs, if they choose to continue their studies after completion of the master's degree.

## Program Requirements

### Major Requirements

Code	Title	Credit Hours
<b>Major Requirements</b>		
PHIL 51038	INTERMEDIATE LOGIC	3
PHIL 60191	GRADUATE SEMINAR <sup>1</sup>	6
PHIL 69194	COLLEGE TEACHING OF PHILOSOPHY <sup>2</sup>	0-2
PHIL 69101	PROSEMINAR: PROFESSIONAL AND PEDAGOGICAL TRAINING <sup>3</sup>	6
Philosophy (PHIL) Elective Coursework <sup>4</sup>		15
Culminating Experience, choose from the following: <sup>5</sup>		6
PHIL 69199	THESIS I	
PHIL 69998	RESEARCH	
Additional Philosophy (PHIL) Coursework and a paper		
Minimum Total Credit Hours:		36

<sup>1</sup> Students take PHIL 60191 in their second and third semesters in the program.

<sup>2</sup> PHIL 69194 is an additional course, required for graduate assistants only; total credit hours for the program will be 38.

<sup>3</sup> Beyond required and elective coursework, students are required to participate in PHIL 69101 for each semester in residence. Maximum 6 credit hours of the course may be counted toward the degree requirements. The graduate coordinator, in consultation with the graduate faculty, will consider various options for satisfying the graduate proseminar requirement where circumstances dictate.

<sup>4</sup> One graduate course in a discipline outside of philosophy may be taken with departmental approval.

<sup>5</sup> Proposals for a culminating experience can be made only after a student has met the following requirements: completion of (or present good standing in) one section each of PHIL 51038 and PHIL 60191, as well as 6 credit hours of elective course work.

### Graduation Requirements

Students who lack background preparation in a specific area will be required to take an undergraduate course and earn a minimum B letter grade in that course as a prerequisite to further graduate study. The student's advisory group, in consultation with the graduate coordinator, will determine which course prerequisites are needed.

## Philosophy - Minor

### College of Arts and Sciences

Department of Philosophy

320 Bowman Hall

Kent Campus

330-672-2315

philo@kent.edu

www.kent.edu/philosophy

## Description

The Philosophy minor helps students develop skills such as critical thinking, careful reading and analysis of texts, argumentative and analytical writing, creative problem-solving, effective communication and global literacy – all of which are vital to success in a wide range of professions.

The minor provides excellent preparation for graduate school entrance exams (such as the GRE, LSAT and GMAT) and enhances the career preparation students obtain in their major field.

Philosophy minors develop these important skills while being introduced to a fascinating discipline which considers basic, timeless questions such as

- 'What is the nature of reality?'
- 'What (if anything) can I know with certainty?'
- 'What kind of life should I live?'

### Fully Offered At:

- Kent Campus
- Stark Campus

## Admission Requirements

Admission to a minor is open to students declared in a bachelor's degree, the A.A.B. or A.A.S. degree or the A.T.S. degree (not Individualized Program major). Students declared only in the A.A. or A.S. degree or the A.T.S. degree in Individualized Program may not declare a minor. Students may not pursue a minor and a major in the same discipline.

## Minor Requirements

Code	Title	Credit Hours
<b>Minor Requirements</b>		
PHIL 11001	INTRODUCTION TO PHILOSOPHY (DIVG) (KHUM)	3
or PHIL 21001	INTRODUCTION TO ETHICS (DIVG) (KHUM)	
PHIL 11009	CRITICAL THINKING (KADL)	3
or PHIL 21002	INTRODUCTION TO FORMAL LOGIC (KMCR)	
Philosophy Upper-Division Electives (PHIL 30000 or 40000 level) <sup>1</sup>		6
Philosophy Upper-Division Electives (PHIL 40000 level) <sup>1</sup>		3
History of Philosophy Electives, choose from the following:		3
PHIL 31001	ANCIENT GREEK PHILOSOPHY (WIC)	
PHIL 31002	MEDIEVAL PHILOSOPHY (WIC)	
PHIL 31003	CONTINENTAL RATIONALISM (WIC)	
PHIL 31004	BRITISH EMPIRICISM (WIC)	
PHIL 31005	GERMAN CRITICAL PHILOSOPHY (WIC)	
PHIL 31006	NINETEENTH-CENTURY PHILOSOPHY (WIC)	
PHIL 31010	TWENTIETH-CENTURY PHILOSOPHY (WIC)	
PHIL 31020	AMERICAN PHILOSOPHY (WIC)	
Minimum Total Credit Hours:		18

<sup>1</sup> PHIL 40093, PHIL 49996 and PHIL 49999 may not be counted toward the minor.

## Graduation Requirements

Minimum Minor GPA	Minimum Overall GPA
2.000	2.000

- Students must complete at least two upper-division (30000 or 40000 level) courses in the minor at Kent State on a graded basis (A-F).
- Minimum 6 credit hours in the minor must be upper-division coursework (30000 and 40000 level).
- Minimum 6 credit hours in the minor must be outside of the course requirements for any major or other minor the student is pursuing.
- Minimum 50 percent of the total credit hours for the minor must be taken at Kent State (in residence).

## Department of Physics

### College of Arts and Sciences

Department of Physics

103 Smith Hall

Kent Campus

330-672-2246

physics-web@kent.edu

www.kent.edu/physics

## Undergraduate Programs

- Physics - B.A.
- Physics - B.S.

## Minors

- Physics

## Graduate Programs

- Physics - M.A.
- Physics - M.S.
- Physics - Ph.D.

## Department of Physics Faculty

- Almasan, Carmen C. (1995), Professor, Ph.D., University of South Carolina, 1989
- Antocheviz Dexheimer Strickland, Veronica A. (2013), Assistant Professor, Ph.D., Goethe Universitat, 2009
- Balci, Hamza (2009), Associate Professor, Ph.D., University of Maryland, 2004
- Barrick, John M. (1988), Associate Lecturer, Ed.S., Kent State University, 1988
- Cheng, Haw (2018), Assistant Professor, Ph.D., University of North Carolina, Chapel Hill, 2014
- Driscoll, Donald D. (2007), Associate Professor, Ph.D., Case Western Reserve University, 2004
- Dzero, Maxim (2010), Associate Professor
- Ellman, Brett D. (1997), Associate Professor, Ph.D., University of Chicago, 1993
- Fregoso, Benjamin (2017), Assistant Professor
- Gleason, James T. (1997), Professor & Department Chair, Ph.D., Kent State University, 1991

- Katramatou, A. Mina T. (1996), Professor, Ph.D., American University, 1988
- Keane, Declan F. (1988), Professor, Ph.D., University College of Dublin
- Lavrentovich, Oleg D. (1992), Trustees Research Professor, Kiev University, 1990
- Li, Ran (2007), Associate Professor, Ph.D., Southern Illinois University, Carbondale, 2007
- Lussem, Bjorn (2014), Associate Professor
- Manley, D.M. (1986), Professor, Ph.D., University of Wyoming, 1981
- Mann, Elizabeth K. (1998), Professor, Ph.D., University of Paris, 1992
- Margetis, Spyridon (1997), Professor, Ph.D., Goethe Universitat, 1991
- Minnick, Stephen A. (2003), Professor & Assistant Dean, Ph.D., Pennsylvania State University, 2003
- Montgomery, Timothy E. (1985), Associate Lecturer
- Petratos, Gerassimos G. (1994), Professor, Ph.D., American University, 1988
- Portman, John J. (2003), Professor, Ph.D., University of Illinois, Urbana, 2000
- Quader, Khandker F. (1990), Professor, Ph.D., State University of New York-Stony Brook, 1983
- Schmidt, Thorsten-Lars (2019), Assistant Professor
- Schroeder, Almut (2001), Associate Professor
- Secaur, Jonathan M. (1980), Associate Professor, Ph.D., Kent State University, 1994
- Selinger, Jonathan V. (2005), Professor, Ph.D., Harvard College, 1989
- Selinger, Robin L. (2005), Professor, Ph.D., Harvard College, 1989
- Sprunt, Samuel N. (1995), Professor, Ph.D., Massachusetts Institute of Technology, 1989
- Strickland, Michael (2013), Professor, Ph.D., Duke University, 1997
- Vanfossen, Joseph A. (2004), Assistant Professor
- Wei, Qi-Huo (2006), Professor
- Yang, Deng-Ke (1989), Professor, Ph.D., University of Hawaii at Manoa, 1989
- Yokoyama, Hiroshi (2009), Professor, Ph.D., Tokyo International University, 1987

## Physics (PHY)

### PHY 11030 SEVEN IDEAS THAT SHOOK THE UNIVERSE (KBS) 3

#### Credit Hours

Description of major revolutionary physical concepts and their implications for understanding the physical universe. Not counted toward requirements for physics major.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Kent Core Basic Sciences, Transfer Module Natural Sciences

**PHY 12000 INTRODUCTORY PHYSICS SEMINAR (ELR) 1 Credit Hour**

To provide a nurturing course for new physics majors, ideally to be taken in their first semester as majors. The course includes a journal club component, informational talks by industrial physicists and training in a select group of essential skills and tools for future work in the physics program.

**Prerequisite:** None.

**Schedule Type:** Seminar

**Contact Hours:** 1 other

**Grade Mode:** Standard Letter

**Attributes:** Experiential Learning Requirement

**PHY 12111 PHYSICS FOR HEALTH TECHNOLOGIES 3 Credit Hours**

Basic physics applied to health technologies: measurement techniques, force and motion of solids and fluids, energy, heat wave phenomena, electricity. Students taking this course should be in a health technologies major.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PHY 12201 TECHNICAL PHYSICS I (KBS) (KLAB) 3 Credit Hours**

Introduction to principles of physics: mechanics.

**Prerequisite:** MATH 11010.

**Pre/corequisite:** MATH 11022.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 2 lecture, 2 lab

**Grade Mode:** Standard Letter

**Attributes:** Kent Core Basic Sciences, Kent Core Basic Sciences Lab

**PHY 12202 TECHNICAL PHYSICS II (KBS) (KLAB) 4 Credit Hours**

Introduction to principles of physics, including fluids, thermodynamics, electricity and magnetism.

**Prerequisite:** PHY 12201.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 3 lecture, 2 lab

**Grade Mode:** Standard Letter

**Attributes:** Kent Core Basic Sciences, Kent Core Basic Sciences Lab

**PHY 13001 GENERAL COLLEGE PHYSICS I (KBS) 4 Credit Hours**

Principles of mechanics, heat and sound.

**Prerequisite:** MATH 11022 with a minimum C grade.

**Pre/corequisite:** MATH 12002 or MATH 12012 or MATH 12021.

**Corequisite:** PHY 13021.

**Schedule Type:** Lecture, Recitation

**Contact Hours:** 3 lecture, 1 other

**Grade Mode:** Standard Letter

**Attributes:** Kent Core Basic Sciences, TAG Science, Transfer Module Natural Sciences

**PHY 13002 GENERAL COLLEGE PHYSICS II (KBS) 4 Credit Hours**

Principles of electricity and magnetism, optics and modern physics. Three hours lecture and one hour recitation weekly.

**Prerequisite:** PHY 13001 or PHY 23101.

**Corequisite:** PHY 13022.

**Schedule Type:** Lecture, Recitation

**Contact Hours:** 3 lecture, 1 other

**Grade Mode:** Standard Letter

**Attributes:** Kent Core Basic Sciences, TAG Science, Transfer Module Natural Sciences

**PHY 13011 COLLEGE PHYSICS I (KBS) 2 Credit Hours**

Principles of classical physics, primarily mechanics. Three-hour lecture and one-hour recitation weekly. This is a flexibly scheduled course that meets concurrently with PHY 13001 for the first half of the regular term.

**Prerequisite:** MATH 11022 with a minimum C grade.

**Pre/corequisite:** MATH 12002 or MATH 12012 or MATH 12021.

**Corequisite:** PHY 13021.

**Schedule Type:** Lecture, Recitation

**Contact Hours:** 3 lecture, 1 other

**Grade Mode:** Standard Letter

**Attributes:** Kent Core Basic Sciences, Transfer Module Natural Sciences

**PHY 13012 COLLEGE PHYSICS II (KBS) 2 Credit Hours**

Principles of classical physics, primarily electricity and magnetism.

**Prerequisite:** PHY 13001 or PHY 13011 or PHY 23101.

**Schedule Type:** Lecture, Recitation

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**Attributes:** Kent Core Basic Sciences, Transfer Module Natural Sciences

**PHY 13021 GENERAL COLLEGE PHYSICS LABORATORY I (KBS) (KLAB) 1 Credit Hour**

Introductory lab to accompany PHY 13001 or PHY 13011.

**Corequisite:** PHY 13001 or PHY 13011.

**Schedule Type:** Laboratory

**Contact Hours:** 2 lab

**Grade Mode:** Standard Letter

**Attributes:** Kent Core Basic Sciences, Kent Core Basic Sciences Lab, TAG Science, Transfer Module Natural Sciences

**PHY 13022 GENERAL COLLEGE PHYSICS LABORATORY II (KBS) (KLAB) 1 Credit Hour**

Introductory lab to accompany PHY 13002 or PHY 13012.

**Corequisite:** PHY 13002 or PHY 13012.

**Schedule Type:** Laboratory

**Contact Hours:** 2 lab

**Grade Mode:** Standard Letter

**Attributes:** Kent Core Basic Sciences, Kent Core Basic Sciences Lab, TAG Science, Transfer Module Natural Sciences

**PHY 20095 SPECIAL TOPICS 1-3 Credit Hours**

(Repeatable for credit) Topic announced when scheduled.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 1-3 lecture

**Grade Mode:** Standard Letter

**PHY 20096 INDIVIDUAL INVESTIGATION IN PHYSICS 1-6 Credit Hours**

(Repeatable for credit) Individual projects in physics.

**Prerequisite:** Special approval.

**Schedule Type:** Individual Investigation

**Contact Hours:** 1-6 other

**Grade Mode:** Standard Letter-IP



**PHY 21040 PHYSICS IN ENTERTAINMENT AND THE ARTS (KBS) 3 Credit Hours**

Descriptive introduction to physics underlying selected forms of art and entertainment. Examples are drawn from music, visual arts and communications media. Not counted toward requirements for physics major.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Kent Core Basic Sciences, Transfer Module Natural Sciences

**PHY 21041 PHYSICS IN ENTERTAINMENT AND THE ARTS LABORATORY (KBS) (KLAB) 1 Credit Hour**

Laboratory component of PHY 21040, two hours weekly.

**Pre/corequisite:** PHY 21040.

**Schedule Type:** Laboratory

**Contact Hours:** 2 lab

**Grade Mode:** Standard Letter

**Attributes:** Kent Core Basic Sciences, Kent Core Basic Sciences Lab, Transfer Module Natural Sciences

**PHY 21430 FRONTIERS IN ASTRONOMY (KBS) 3 Credit Hours**

Modern description of astrophysical observations, the results of these observations and the physical principles based on them. Not counted toward requirements for physics major.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Kent Core Basic Sciences, Transfer Module Natural Sciences

**PHY 21431 FRONTIERS IN ASTRONOMY LABORATORY (KBS) (KLAB) 1 Credit Hour**

Laboratory component of PHY 21430.

**Pre/corequisite:** PHY 21430.

**Schedule Type:** Laboratory

**Contact Hours:** 3 lab

**Grade Mode:** Standard Letter

**Attributes:** Kent Core Basic Sciences, Kent Core Basic Sciences Lab, Transfer Module Natural Sciences

**PHY 22564 INTRODUCTION TO MATERIALS PHYSICS 3 Credit Hours**

Survey of mechanical and electronic properties of materials with application in science and technology. Metals, semiconductors, ceramics, polymers and liquid crystals, and other special materials will be addressed.

**Prerequisite:** PHY 23102.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PHY 23101 GENERAL UNIVERSITY PHYSICS I (KBS) (KLAB) 5 Credit Hours**

Principles of mechanics, heat and sound at calculus level.

**Pre/corequisite:** MATH 12002.

**Schedule Type:** Laboratory, Lecture

**Contact Hours:** 4 lecture, 3 lab

**Grade Mode:** Standard Letter

**Attributes:** Kent Core Basic Sciences, Kent Core Basic Sciences Lab, TAG Science

**PHY 23102 GENERAL UNIVERSITY PHYSICS II (KBS) (KLAB) 5 Credit Hours**

Principles of electricity, magnetism, light and modern physics at calculus level.

**Prerequisite:** PHY 13001 or PHY 23101.

**Pre/corequisite:** MATH 12003.

**Schedule Type:** Laboratory, Lecture

**Contact Hours:** 4 lecture, 3 lab

**Grade Mode:** Standard Letter

**Attributes:** Kent Core Basic Sciences, Kent Core Basic Sciences Lab, TAG Science

**PHY 30020 INTERMEDIATE PHYSICS LABORATORY (WIC) 2 Credit Hours**

(Repeatable for credit) Experiments in classical and modern physics are selected to accompany and to supplement junior-level physics courses.

**Prerequisite:** PHY 36001 and 10 hours of additional physics courses.

**Schedule Type:** Laboratory

**Contact Hours:** 3 lab

**Grade Mode:** Standard Letter

**Attributes:** Writing Intensive Course

**PHY 30095 SPECIAL TOPICS 1-3 Credit Hours**

(Repeatable for credit) Topic announced when scheduled.

**Prerequisite:** Permission.

**Schedule Type:** Lecture

**Contact Hours:** 1-3 lecture

**Grade Mode:** Standard Letter

**PHY 32511 ELECTRONICS 4 Credit Hours**

'Hands-on' course to give the student a working knowledge of analog electronics and of AC and DC circuits typically used by the scientist.

**Prerequisite:** MATH 12002 and; PHY 13002 or PHY 23102.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 6 other

**Grade Mode:** Standard Letter

**PHY 34000 COSMOLOGY 3 Credit Hours**

This course will provide a quantitative introduction to modern cosmology, from the Big Bang to the formation of the first stars. Subjects include the evolution of the geometry and temperature of the universe its composition and select aspects of general relativity.

**Prerequisite:** PHY 36001.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PHY 35101 CLASSICAL MECHANICS 4 Credit Hours**

Modern description of mechanics including both LaGrangian and Hamilton formulations, with applications to central force, motion, coupled oscillations, rigid body motion and motion in non-inertial reference frames.

**Prerequisite:** PHY 23102 and MATH 32052.

**Schedule Type:** Lecture

**Contact Hours:** 4 lecture

**Grade Mode:** Standard Letter

**PHY 36001 INTRODUCTORY MODERN PHYSICS 3 Credit Hours**

Special theory of relativity, Rutherford-Bohr model of atom, quantization of light, matter waves, Schroedinger equation, hydrogen atom, electron spin, multi-electron atoms.

**Prerequisite:** MATH 12003 and PHY 23102.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PHY 36002 APPLICATIONS OF MODERN PHYSICS 3 Credit Hours**

Survey of applications of twentieth century physics. Topics include molecular bonding, conducting and insulating solids, degenerate matter, quantum condensates, subatomic and sub-nuclear particle physics, cosmology.

**Prerequisite:** PHY 36001.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PHY 40020 ADVANCED PHYSICS LABORATORY (WIC) 2 Credit Hours**

(Repeatable for credit) Advanced experiments in classical and modern physics are selected to accompany and to supplement senior-level physics courses.

**Prerequisite:** PHY 30020.

**Pre/corequisite:** 6 credit hours of 40000-level physics courses.

**Schedule Type:** Laboratory

**Contact Hours:** 3 lab

**Grade Mode:** Standard Letter

**Attributes:** Writing Intensive Course

**PHY 40060 PHYSICAL LITERATURE 1-3 Credit Hours**

Study of current or topical literature.

**Prerequisite:** Permission.

**Schedule Type:** Lecture

**Contact Hours:** 1-3 lecture

**Grade Mode:** Standard Letter

**PHY 40092 INTERNSHIP IN PHYSICS (ELR) 1-3 Credit Hours**

(Repeatable for credit) Supervised capstone experience in physics at a national laboratory, a research university in industry or at a local research site. No more than 3 credit hours may be applied toward the major electives for physics majors.

**Prerequisite:** Permission.

**Schedule Type:** Practical Experience

**Contact Hours:** 1-3 other

**Grade Mode:** Satisfactory/Unsatisfactory

**Attributes:** Experiential Learning Requirement

**PHY 40095 SPECIAL TOPICS 1-3 Credit Hours**

(Repeatable for credit) Topic announced when scheduled.

**Prerequisite:** Permission.

**Schedule Type:** Lecture

**Contact Hours:** 1-3 lecture

**Grade Mode:** Standard Letter

**PHY 40096 INDIVIDUAL INVESTIGATION (ELR) 1-6 Credit Hours**

(Repeatable for credit) Individual projects for physics majors.

**Prerequisite:** 20 hours of physics; and special approval of department chairperson.

**Schedule Type:** Individual Investigation

**Contact Hours:** 1-6 other

**Grade Mode:** Standard Letter-IP

**Attributes:** Experiential Learning Requirement

**PHY 40099 SENIOR HONORS THESIS (ELR) 1-10 Credit Hours**

Thesis for departmental, general or university honors must be 1-10 hours with continuous registration throughout the senior year beginning in the summer prior to the senior year. Students taking this course must consult with their department and the Honors College and receive approval prior to the first semester of the senior year.

**Prerequisite:** Honors senior standing; and special approval.

**Schedule Type:** Senior Project/Honors Thesis

**Contact Hours:** 1-10 other

**Grade Mode:** Standard Letter-IP

**Attributes:** Experiential Learning Requirement

**PHY 40195 SPECIAL TOPICS 1-3 Credit Hours**

(Repeatable for credit) (Slashed with PHY 50195) Topic announced when scheduled.

**Prerequisite:** Special approval.

**Schedule Type:** Lecture

**Contact Hours:** 1-3 lecture

**Grade Mode:** Standard Letter

**PHY 41010 BIOPHOTONICS 3 Credit Hours**

(Slashed with PHY 51010) (Cross-listed with BSCI 41110 and BSCI 51110 and CHEM 41010 and CHEM 51010) Interdisciplinary overview of the basics of biophotonics; application of biophotonic techniques to probe biological samples. Introduction to the foundations of optics and photonics and how the molecular structure of organic molecules translates into unique photonic properties and targeting in biological cells or tissue. Preparation of fluorescent materials, advanced spectroscopy and cell visualization using regular and confocal fluorescence microscopy.

**Prerequisite:** Special approval.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 1 lecture, 6 lab

**Grade Mode:** Standard Letter

**PHY 44600 INTRODUCTION TO BIOLOGICAL PHYSICS 3 Credit Hours**

Introduces ideas essential to physical understanding of biological systems. Topics include: introduction to molecular components of the cell; statistical mechanics and transport in biological systems; selected topics in biophysics.

**Prerequisite:** PHY 23102.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PHY 44802 ASTROPHYSICS 3 Credit Hours**

Galactic structure, stellar formation and evolution, origin of the elements (or nucleosynthesis), nonoptical astronomies, and description of various cosmological theories.

**Prerequisite:** MATH 12003.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PHY 45201 ELECTROMAGNETIC THEORY 4 Credit Hours**

Properties of electric and magnetic fields developed by vector methods. Treatment on static fields in vacuum and matter. Theory of classical electromagnetic fields with emphasis on dynamic fields.

**Prerequisite:** MATH 32052 and PHY 23102.

**Schedule Type:** Lecture

**Contact Hours:** 4 lecture

**Grade Mode:** Standard Letter

**PHY 45301 THERMAL PHYSICS 3 Credit Hours**

An introduction to thermodynamics and statistical mechanics, with applications in material science and engineering.

**Prerequisite:** PHY 36001.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PHY 45401 MATHEMATICAL METHODS IN PHYSICS 4 Credit Hours**

Consolidation of vector analysis, curvilinear coordinate systems, tensors, matrix algebra, vector spaces, common groups in physics, calculus of residues, contour integration, methods for differential equations in physics; additional topics important for physics selected from special functions, integral equations, calculus of variations.

**Prerequisite:** MATH 32052.

**Schedule Type:** Lecture

**Contact Hours:** 4 lecture

**Grade Mode:** Standard Letter

**PHY 45403 DATA ANALYSIS AND COMPUTATIONAL PHYSICS TECHNIQUES 3 Credit Hours**

(Slashed with PHY 55403) Study of uncertainties in physical measurements. Data reduction and error analysis techniques. Monte Carlo simulation method. Least-squares fits to data. Basic computational physics techniques.

**Prerequisite:** MATH 12003 and PHY 23102.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PHY 45501 ELECTROMAGNETIC WAVES AND MODERN OPTICS 3 Credit Hours**

Interactions between light and matter from both a macroscopic and microscopic perspective; producing and controlling light devices and spectroscopic techniques based on modern optics.

**Prerequisite:** PHY 45201.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PHY 46101 QUANTUM MECHANICS 4 Credit Hours**

Systematic introduction to the principles and solution techniques of quantum mechanics, including the Schroedinger equation in one and three dimensions. Topics include: angular momentum formalism, introductory Dirac notation and vector space formalism, intrinsic spin, identical particle systems and perturbation theory.

**Prerequisite:** PHY 36001.

**Pre/corequisite:** MATH 32052.

**Schedule Type:** Lecture

**Contact Hours:** 4 lecture

**Grade Mode:** Standard Letter

**PHY 46301 INTRODUCTION TO NUCLEAR AND PARTICLE PHYSICS 4 Credit Hours**

(Slashed with PHY 56301) Introduction to nuclear and particle physics including particle detectors and accelerators, experimental techniques, nuclear fission and fusion, nuclear reactors, medical applications, and connections to astrophysics and cosmology.

**Prerequisite:** PHY 36001.

**Pre/corequisite:** MATH 32052.

**Schedule Type:** Lecture

**Contact Hours:** 4 lecture

**Grade Mode:** Standard Letter

**PHY 46401 INTRODUCTION TO SOLID STATE PHYSICS 3 Credit Hours**

Fundamental unifying concepts and experimental techniques needed to understand thermal, electrical and optical properties of ions and electrons in solids. Special topics of current research.

**Prerequisite:** PHY 36002.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PHY 50020 ADVANCED PHYSICS LAB 2 Credit Hours**

(Repeatable for credit) Advanced experiments in classical and modern physics are selected to accompany and to supplement graduate-level physics courses.

**Prerequisite:** Graduate standing.

**Schedule Type:** Laboratory

**Contact Hours:** 3 lab

**Grade Mode:** Standard Letter

**PHY 50093 VARIABLE TITLE WORKSHOP IN PHYSICS 1-6 Credit Hours**

(Repeatable for credit) Workshops individually designed to provide instruction and training in specific areas of physics.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Workshop

**Contact Hours:** 1-6 other

**Grade Mode:** Satisfactory/Unsatisfactory

**PHY 50095 SPECIAL TOPICS 1-3 Credit Hours**

(Repeatable for credit) Topic announced when scheduled.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 1-3 lecture

**Grade Mode:** Standard Letter

**PHY 50096 INDIVIDUAL INVESTIGATION 1-3 Credit Hours**

(Repeatable for credit) Individual projects for physics graduate students.

**Prerequisite:** Graduate standing.

**Schedule Type:** Individual Investigation

**Contact Hours:** 1-3 other

**Grade Mode:** Standard Letter-IP

**PHY 50195 SPECIAL TOPICS 1-3 Credit Hours**

(Repeatable for credit) (Slashed with PHY 40195) Topic announced when scheduled.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 1-3 lecture

**Grade Mode:** Standard Letter

**PHY 51010 BIOPHOTONICS 3 Credit Hours**

(Slashed with PHY 41010) (Cross-listed with BSCI 41110 and BSCI 51110 and CHEM 41010 and CHEM 51010) Interdisciplinary overview of the basics of biophotonics; application of biophotonic techniques to probe biological samples. Introduction to the foundations of optics and photonics and how the molecular structure of organic molecules translates into unique photonic properties and targeting in biological cells or tissue. Preparation of fluorescent materials, advanced spectroscopy and cell visualization using regular and confocal fluorescence microscopy.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 1 lecture, 6 lab

**Grade Mode:** Standard Letter

**PHY 54600 INTRODUCTION TO BIOLOGICAL PHYSICS 3 Credit Hours**

Introduces ideas essential to physical understanding of biological systems. Topics include: introduction to molecular components of the cell; statistical mechanics and transport in biological systems; selected topics in biophysics.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PHY 54802 ASTROPHYSICS 3 Credit Hours**

Galactic structure, stellar formation and evolution, origin of the elements (or nucleosynthesis), non optical astronomies, and a description of various cosmological theories. Graduate standing.

**Prerequisite:** MATH 12003.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PHY 55201 ELECTROMAGNETIC THEORY 4 Credit Hours**

Properties of electric and magnetic fields developed by vector methods. Treatment of static fields in vacuum and matter. Theory of classical electromagnetic fields with emphasis on dynamic fields.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 4 lecture

**Grade Mode:** Standard Letter

**PHY 55301 THERMAL PHYSICS 3 Credit Hours**

An introduction to thermodynamics and statistical mechanics, with applications in material science and engineering.

**Prerequisite:** PHY 36001; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PHY 55401 MATHEMATICAL METHODS IN PHYSICS 4 Credit Hours**

Consolidation of vector analysis, curvilinear coordinate systems, tensors, matrix algebra, vector spaces, common groups in physics, calculus of residues, contour integration, methods for differential equations in physics; additional topics important for physics selected from special functions, integral equations, calculus of variations.

**Prerequisite:** MATH 32052; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 4 lecture

**Grade Mode:** Standard Letter

**PHY 55403 DATA ANALYSIS AND COMPUTATIONAL PHYSICS TECHNIQUES 3 Credit Hours**

(Slashed with PHY 45403) Study of uncertainties in physical measurements. Data reduction and error analysis techniques. Monte Carlo simulation method. Least-squares fits to data. Basic computational physics techniques.

**Prerequisite:** MATH 12003 and PHY 23102; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PHY 55501 ELECTROMAGNETIC WAVES AND MODERN OPTICS 3 Credit Hours**

Interactions between light and matter from both a macroscopic and microscopic perspective; producing and controlling light; devices and spectroscopic techniques based on modern optics.

**Prerequisite:** PHY 55201; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PHY 56101 QUANTUM MECHANICS 4 Credit Hours**

Systematic introduction to the principles and solution techniques of quantum mechanics, including the Schroedinger equation in one and three dimensions. Topics include: angular momentum formalism, introductory Dirac notation and vector space formalism, intrinsic spin, identical particle systems, and perturbation theory.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 4 lecture

**Grade Mode:** Standard Letter

**PHY 56301 INTRODUCTION TO NUCLEAR AND PARTICLE PHYSICS 4 Credit Hours**

(Slashed with PHY 46301) Introduction to nuclear and particle physics including particle detectors and accelerators, experimental techniques, nuclear fission and fusion, nuclear reactors, medical applications, and connections to astrophysics and cosmology.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 4 lecture

**Grade Mode:** Standard Letter

**PHY 56401 INTRODUCTION TO SOLID STATE PHYSICS 3 Credit Hours**

Fundamental unifying concepts and experimental techniques needed to understand thermal, electrical and optical properties of ions and electrons in solids. Special topics of current research.

**Prerequisite:** PHY 36002; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PHY 60091 PHYSICS SEMINAR 1 Credit Hour**

(Repeatable for credit) Discussion of current literature or of original research in physics. Participation by students, faculty and guests.

**Prerequisite:** Graduate standing.

**Schedule Type:** Seminar

**Contact Hours:** 1 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**PHY 60093 VARIABLE TITLE WORKSHOP IN PHYSICS 1-6 Credit Hours**

(Repeatable for credit) Workshops individually designed to provide instruction and training in specific areas of physics.

**Prerequisite:** Graduate standing.

**Schedule Type:** Workshop

**Contact Hours:** 3 other

**Grade Mode:** Satisfactory/Unsatisfactory

**PHY 60094 COLLEGE TEACHING OF PHYSICS 1-3 Credit Hours**  
(Repeatable for credit) Methodology of teaching in a university, college or junior college. Includes observation of kinds of teaching and practice teaching.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 1-3 lecture

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**PHY 60098 RESEARCH 1-15 Credit Hours**  
(Repeatable for credit) Research or individual investigation. Credits earned may be applied toward meeting degree requirements if department approves.

**Prerequisite:** Graduate standing.

**Schedule Type:** Research

**Contact Hours:** 1-15 other

**Grade Mode:** Standard Letter-IP

**PHY 60199 THESIS I 2-6 Credit Hours**  
Thesis students must register for total of 6 hours, 2 to 6 hours in a single semester distributed over several semesters if desired.

**Prerequisite:** Graduate standing; and special approval of advisor.

**Schedule Type:** Masters Thesis

**Contact Hours:** 2-6 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**PHY 60295 ADVANCED TOPICS 1-3 Credit Hours**  
(Repeatable for credit) Selected special topics of current research interest.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter-IP

**PHY 60299 THESIS II 2 Credit Hours**  
Thesis students must continue registration each semester until all degree requirements are met.

**Prerequisite:** PHY 60199; and graduate standing.

**Schedule Type:** Masters Thesis

**Contact Hours:** 2 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**PHY 64101 ADVANCED PROBLEM SOLVING IN PHYSICS 3 Credit Hours**  
(Slashed with 741010) The course imparts advanced problem-solving skills not acquired in regular courses. Examples from four basic areas of physics (classical mechanics, electricity and magnetism, quantum mechanics and statistical physics) will be emphasized.

**Prerequisite:** PHY 65101 or PHY 65203 or PHY 66161 or PHY 65301; or graduate standing; and departmental instructor approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PHY 65101 CLASSICAL MECHANICS 3 Credit Hours**  
Lagrange's equations, variational principles, two-body central force problem and rigid body motion. Hamilton's equations, canonical transformations, Hamilton-Jacobi theory and small oscillations.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PHY 65203 CLASSICAL ELECTRODYNAMICS I 3 Credit Hours**  
Introduction to electrostatics, boundary-value problems, multipoles, electrostatics of macroscopic media, magnetostatics, time-varying fields, Maxwell's equations, conservation laws.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PHY 65204 CLASSICAL ELECTRODYNAMICS II 3 Credit Hours**  
Plane electromagnetic waves, simple radiating systems, scattering, special theory of relativity, relativistic dynamics, radiation of moving charges, Bremsstrahlung.

**Prerequisite:** PHY 65203; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PHY 65301 STATISTICAL MECHANICS I 4 Credit Hours**  
An introduction to statistical mechanics, including classical and quantum statistics. Derives thermodynamic quantities from a statistical viewpoint.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 4 lecture

**Grade Mode:** Standard Letter

**PHY 66161 QUANTUM MECHANICS I 3 Credit Hours**  
Fundamental concepts of non-relativistic quantum mechanics. Solution of simple one dimensional problems. Abstract Hilbert-space description. Matrix representations. Quantum dynamics. Extension to three dimensions. Spin and orbital angular momentum.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PHY 66162 QUANTUM MECHANICS II 3 Credit Hours**  
Angular momentum theory. Symmetries and conservation laws. Application of approximation methods to realistic problems. Systems of identical particles. Scattering theory. Relativistic single particle wave equations.

**Prerequisite:** PHY 66161; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PHY 66201 PARTICLE PHYSICS 3 Credit Hours**  
Discussion of particle detectors, invariance principles and conservation laws, fundamental interactions, quark model of hadrons, basic concepts of field theory, the Standard Model and selected topics of current interest.

**Prerequisite:** PHY 66162; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PHY 66302 MODERN NUCLEAR PHYSICS 3 Credit Hours**  
Survey of basic physics of nucleons and nuclei including associated experimental techniques, emphasizing interaction of radiation with matter. Applications covered include detectors, electron scattering from nuclei, quark-parton model of the nucleon, heavy-ion collisions, quark-gluon plasma, and nuclear astrophysics.

**Prerequisite:** PHY 56101; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter



**PHY 66401 SOLID STATE PHYSICS I 3 Credit Hours**

Crystalline state, with emphasis on wave propagation, zone and band theory, phonons. Applications to electrical and thermal conductivities, specific heats, optical, dielectric and magnetic properties.

**Prerequisite:** PHY 56101 or PHY 66161; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PHY 66403 ADVANCED CONDENSED MATTER PHYSICS 3 Credit Hours**

(Slashed with PHY 76403) Advanced theories of solids, fluids, superfluids, magnetic, ferroelectric and liquid crystal systems and the experimental methods that probe them.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PHY 68401 LIQUID CRYSTAL PHYSICS 3 Credit Hours**

The molecular structure and properties of liquid crystals and their role in biological systems and industrial applications.

**Prerequisite:** Graduate standing in physics or chemical physics.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PHY 70094 COLLEGE TEACHING OF PHYSICS 1-3 Credit Hours**

(Repeatable for credit) Methodology of teaching in a university, college or junior college. Includes observation of kinds of teaching and practice teaching.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 1-3 lecture

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**PHY 70095 SPECIAL TOPICS 1-3 Credit Hours**

(Repeatable for credit) Topic announced when scheduled.

**Prerequisite:** Doctoral standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 1-3 lecture

**Grade Mode:** Standard Letter

**PHY 74101 ADVANCED PROBLEM SOLVING IN PHYSICS 3 Credit Hours**

The course imparts advanced problem-solving skills not acquired in regular courses. Examples from four basic areas of physics (classical mechanics, electricity and magnetism, quantum mechanics and statistical physics) will be emphasized.

**Prerequisite:** PHY 65101 or PHY 65203 or PHY 66161 or PHY 65301; or doctoral standing; and departmental instructor approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PHY 75101 CLASSICAL MECHANICS 3 Credit Hours**

Lagrange's equations, variational principles, two-body central force problems, rigid body motion, Hamilton's equations, canonical transformations, Hamilton-Jacobi theory, small oscillations.

**Prerequisite:** Doctoral standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PHY 75203 CLASSICAL ELECTRODYNAMICS I 3 Credit Hours**

Introduction to electrostatics, boundary value problems, multipoles, electrostatics of macroscopic media, magnetostatics, time-varying fields, Maxwell's equations, conservation laws.

**Prerequisite:** Doctoral standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PHY 75204 CLASSICAL ELECTRODYNAMICS II 3 Credit Hours**

Plane electromagnetic waves, simple radiating systems, scattering special theory of relativity, relativistic dynamics, radiation of moving charges, Bremsstrahlung.

**Prerequisite:** PHY 65203; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PHY 75301 STATISTICAL MECHANICS I 4 Credit Hours**

An introduction to statistical mechanics, including classical and quantum statistics. Derives thermodynamic quantities from a statistical viewpoint.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 4 lecture

**Grade Mode:** Standard Letter

**PHY 76161 QUANTUM MECHANICS I 3 Credit Hours**

Fundamental concepts of non-relativistic quantum mechanics. Solution of simple one dimensional problems. Abstract Hilbert space description. Matrix representations. Quantum dynamics. Extension to three dimensions. Spin and orbital angular momentum.

**Prerequisite:** Doctoral standing; and permission.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PHY 76162 QUANTUM MECHANICS II 3 Credit Hours**

Angular momentum theory. Symmetries and conservation laws. Application of approximation methods to realistic problems. Systems of identical particles. Scattering theory. Relativistic single particle wave equations.

**Prerequisite:** PHY 66161; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PHY 76163 QUANTUM MECHANICS III 3 Credit Hours**

Second quantization and field theory formalism are developed for the many-particle system. Topics include the electron gas and nuclear matter.

**Prerequisite:** PHY 66162; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PHY 76201 PARTICLE PHYSICS 3 Credit Hours**

Discussion of particle detectors, invariance principles and conservation laws, fundamental interactions, quark model of hadrons, basic concepts of a field theory, the Standard Model and selected topics of current interest.

**Prerequisite:** PHY 66162 or 76162; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PHY 76303 APPLICATIONS OF QUANTUM CHROMODYNAMICS 3 Credit Hours**

Introduces the key attributes and techniques of Quantum Chromodynamics, which is the relativistic quantum field theory of the strong interaction. Topics treated include the properties, structure and interactions of strongly interacting sub-nuclear particles (hadrons) and the physics of hadronic and nuclear matter at finite temperature and density, as applicable to modern nuclear particle physics research.

**Prerequisite:** PHY 76163.

**Corequisite:** PHY 66201 or PHY 76201.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PHY 76401 SOLID STATE PHYSICS I 3 Credit Hours**

Crystalline state, with emphasis on wave propagation zone and band theory phonons. Applications to electrical and thermal conductivities specific heats optical dielectric and magnetic properties.

**Prerequisite:** PHY 56101 or PHY 66161 or 76161; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PHY 76403 ADVANCED CONDENSED MATTER PHYSICS 3 Credit Hours**

(Slashed with PHY 66403) Advanced theories of solids, fluids, superfluids, magnetic, ferroelectric and liquid crystal systems, and the experimental methods that probe them.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PHY 78401 LIQUID CRYSTAL PHYSICS 3 Credit Hours**

The molecular structure and properties of liquid crystals and their role in biological systems and industrial applications.

**Prerequisite:** Doctoral standing in physics or chemical physics.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PHY 80091 PHYSICS SEMINAR 1 Credit Hour**

(Repeatable for credit) Discussion of current literature or of original research in physics. Participation by students, faculty and guests.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Seminar

**Contact Hours:** 1 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**PHY 80097 PHYSICS COLLOQUIUM 1 Credit Hour**

(Repeatable for credit) Presentation by invited speakers of research and other topics on graduate level followed by discussion period. Regular attendance of all physics majors expected. Three or more meetings each semester as arranged.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Colloquium

**Contact Hours:** 1 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**PHY 80098 RESEARCH 1-15 Credit Hours**

(Repeatable for credit) Research or individual investigation for doctoral students who have not yet passed their candidacy exams. Credit earned may be applied toward the degree if the department approves.

**Prerequisite:** Doctoral standing; and special approval.

**Schedule Type:** Research

**Contact Hours:** 1-15 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**PHY 80199 DISSERTATION I 15 Credit Hours**

(Repeatable for credit) Doctoral dissertation, for which registration in at least two semesters is required; the first of which will be the semester in which dissertation work is begun, and continuing until the completion of 30 hours.

**Prerequisite:** Doctoral standing; and special approval.

**Schedule Type:** Dissertation

**Contact Hours:** 15 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**PHY 80299 DISSERTATION II 15 Credit Hours**

(Repeatable for credit) Continuing registration required of doctoral students who have completed the initial 30 hours of dissertation and continuing until all degree requirements are met.

**Prerequisite:** PHY 80199; and doctoral standing.

**Schedule Type:** Dissertation

**Contact Hours:** 15 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

## Physics - B.A.

**College of Arts and Sciences**

Department of Physics

103 Smith Hall

Kent Campus

330-672-2246

physics-web@kent.edu

www.kent.edu/physics

## Description

The Bachelor of Arts degree in Physics prepares students for such varied fields as secondary education, patent law, science journalism or interdisciplinary science careers. The core requirements permit a large number of elective courses, which allow students to complete a minor or second major in preparation for an interdisciplinary career. This program is well suited for those with a strong interest not only in science but also in a non-science field. Students completing the program may choose to continue their physics studies on a graduate level.

### Fully Offered At:

- Kent Campus

## Admission Requirements

The university affirmatively strives to provide educational opportunities and access to students with varied backgrounds, those with special talents and adult students who graduated from high school three or more years ago.

**Freshman Students on the Kent Campus:** The freshman admission policy on the Kent Campus is selective. Admission decisions are based upon the following: cumulative grade point average, ACT and/or SAT

scores, strength of high school college preparatory curriculum and grade trends. The Admissions Office at the Kent Campus may defer the admission of students who do not meet admissions criteria but who demonstrate areas of promise for successful college study. Deferred applicants may begin their college coursework at one of seven regional campuses of Kent State University. For more information on admissions, including additional requirements for some academic programs, visit the admissions website for new freshmen.

**Freshman Students on the Regional Campuses:** Kent State campuses at Ashtabula, East Liverpool, Geauga, Salem, Stark, Trumbull and Tuscarawas, as well as the Regional Academic Center in Twinsburg, have open enrollment admission for students who hold a high school diploma, GED or equivalent.

**English Language Proficiency Requirements for International Students:** All international students must provide proof of English language proficiency (unless they meet specific exceptions) by earning a minimum 525 TOEFL score (71 on the Internet-based version), minimum 75 MELAB score, minimum 6.0 IELTS score or minimum 48 PTE score, or by completing the ESL level 112 Intensive Program. For more information on international admission, visit the Office of Global Education's admission website.

**Transfer, Transitioning and Former Students:** For more information about admission criteria for transfer, transitioning and former students, please visit the admissions website.

## Program Learning Outcomes

Graduates of this program will be able to:

1. Demonstrate the technical and cognitive skills important in a good physicist, including the following:
  - a. Think critically and analytically.
  - b. Define a problem and how to solve problems.
  - c. Understand advanced mathematics (e.g., calculus and differential equations) and computer skills.
  - d. Use, design and even build lab equipment.
2. Demonstrate the traits important in a good scientist, namely, hard working, creative, meticulous, persistence, tenacious and self confidence.
3. Communicate results of their work to peers, to their instructors or supervisors, to various target groups within the physics community and to people outside the discipline.

## University Requirements

All students in a bachelor's degree program at Kent State University must complete the following university requirements for graduation.

**NOTE:** University requirements may be fulfilled in this program by specific course requirements. Please see Program Requirements for details.

Destination Kent State: First Year Experience	1
Course is not required for students with 25 transfer credits, excluding College Credit Plus, or age 21+ at time of admission.	
Diversity Domestic/Global (DIVD/DIVG)	2 courses
Students must successfully complete one domestic and one global course, of which one must be from the Kent Core.	
Experiential Learning Requirement (ELR)	varies

Students must successfully complete one course or approved experience.	
Kent Core (see table below)	36-37
Writing-Intensive Course (WIC)	1 course
Students must earn a minimum C grade in the course.	
Upper-Division Requirement	39 (or 42)
Students must successfully complete 39 upper-division (numbered 30000 to 49999) credit hours to graduate. Students in a B.A. and/or B.S. degree in the College of Arts and Sciences must complete 42 upper-division credit hours.	
Total Credit Hour Requirement	120
Some bachelor's degrees require students to complete more than 120 credit hours.	

## Kent Core Requirements

Kent Core Composition (KCOMP)	6
Kent Core Mathematics and Critical Reasoning (KMCR)	3
Kent Core Humanities and Fine Arts (KHUM/KFA) (min one course each)	9
Kent Core Social Sciences (KSS) (must be from two disciplines)	6
Kent Core Basic Sciences (KBS/KLAB) (must include one laboratory)	6-7
Kent Core Additional (KADL)	6
<b>Total Credit Hours:</b>	<b>36-37</b>

## Program Requirements

### Major Requirements

Code	Title	Credit Hours
<b>Major Requirements (courses count in major GPA)</b>		
MATH 12002	ANALYTIC GEOMETRY AND CALCULUS I (KMCR)	5
MATH 12003	ANALYTIC GEOMETRY AND CALCULUS II	5
MATH 32051	MATHEMATICAL METHODS IN THE PHYSICAL SCIENCES I	4
MATH 32052	MATHEMATICAL METHODS IN THE PHYSICAL SCIENCES II	4
PHY 12000	INTRODUCTORY PHYSICS SEMINAR (ELR)	1
PHY 23101	GENERAL UNIVERSITY PHYSICS I (KBS) (KLAB) <sup>1</sup>	5
PHY 23102	GENERAL UNIVERSITY PHYSICS II (KBS) (KLAB) <sup>1</sup>	5
PHY 30020	INTERMEDIATE PHYSICS LABORATORY (WIC) <sup>2</sup>	2
PHY 35101	CLASSICAL MECHANICS	4
PHY 36001	INTRODUCTORY MODERN PHYSICS	3
PHY 36002	APPLICATIONS OF MODERN PHYSICS	3
PHY 40020	ADVANCED PHYSICS LABORATORY (WIC) <sup>2</sup>	2
PHY 45201	ELECTROMAGNETIC THEORY	4
Physics (PHY) Upper-Division Electives (30000 or 40000 level) <sup>3</sup>		8
<b>Additional Requirements (courses do not count in major GPA)</b>		
UC 10097	DESTINATION KENT STATE: FIRST YEAR EXPERIENCE	1
Foreign Language <sup>4</sup>		14-16
Kent Core Composition		6
Kent Core Humanities and Fine Arts (minimum one course from each)		9
Kent Core Social Sciences (must be from two disciplines)		6
Kent Core Additional		6

College General Requirement (must be from Kent Core Basic Sciences) <sup>5</sup>	3
College General Requirement (must be from Kent Core Social Sciences) <sup>6</sup>	3
General Electives (total credit hours depends on earning 120 credit hours, including 42 upper-division credit hours)	17
<b>Minimum Total Credit Hours:</b>	<b>120</b>

- <sup>1</sup> Credit is not granted for both the PHY 13001/PHY 13002 and the PHY 23101/PHY 23102 series.
- <sup>2</sup> A minimum C grade must be earned in one of the courses to fulfill writing-intensive requirement.
- <sup>3</sup> With advisor's permission, students may replace 3 credit hours of physics electives with ENG 20002 or PHIL 41035.
- <sup>4</sup> Fulfills College General Requirement.
- <sup>5</sup> One additional course taken from the Kent Core Basic Science courses in the following Arts and Sciences disciplines: Anthropology (ANTH), Biological Sciences (BSCI), Chemistry (CHEM), Geography (GEOG), Geology (GEOL) or Physics (PHY). Students may take the courses listed in the 'introductory' sequences with the restrictions noted above in the Kent Core Basic Science section. The course may not be from the student's major.
- <sup>6</sup> One additional course taken from the Kent Core Social Sciences courses in the following Arts and Sciences disciplines: Anthropology (ANTH), Geography (GEOG), Criminology and Justice Studies (CRIM), Peace and Conflict Studies (PACS), Political Science (POL), Psychology (PSYC) or Sociology (SOC). The course may not be from the student's major.

- Intermediate I of the same language
- MCLS 10001 INTRODUCTION TO STRUCTURAL CONCEPTS FOR LANGUAGE STUDENTS
- MCLS 20091 VARIABLE CONTENT SEMINAR IN GLOBAL LITERACY: CASE STUDIES
- MCLS 21417 MULTICULTURALISM IN TODAY'S GERMANY (DIVG)
- MCLS 28404 THE LATIN AMERICAN EXPERIENCE (DIVG)

- <sup>1</sup> All students with prior foreign language experience should take the foreign language placement test to determine the appropriate level at which to start. Some students may begin beyond the Elementary I level and will complete the requirement with fewer credit hours and fewer courses. This may be accomplished by (1) passing a course beyond Elementary I through Intermediate II level; (2) receiving credit through Credit by Exam (CBE), Advanced Placement (AP), International Baccalaureate (IB) or College Level Examination Program (CLEP); or (3) being designated a 'native speaker' of a non-English language (consult with the College of Arts and Sciences Advising Office for additional information). When students complete the requirement with fewer than 14 credit hours and four courses, they will complete remaining credit hours with general electives.
- <sup>2</sup> Certain majors, concentrations and minors may require specific languages, limit the languages from which a student may choose or require coursework through Intermediate II. Students who plan to pursue graduate study may need particular language coursework.

## Graduation Requirements

Minimum Major GPA	Minimum Overall GPA
2.000	2.000

- The following courses may not count towards the Physics major requirements:

Code	Title	Credit Hours
PHY 11030	SEVEN IDEAS THAT SHOOK THE UNIVERSE (KBS)	3
PHY 21040	PHYSICS IN ENTERTAINMENT AND THE ARTS (KBS)	3
PHY 21041	PHYSICS IN ENTERTAINMENT AND THE ARTS LABORATORY (KBS) (KLAB)	1
PHY 21430	FRONTIERS IN ASTRONOMY (KBS)	3
PHY 21431	FRONTIERS IN ASTRONOMY LABORATORY (KBS) (KLAB)	1

## Foreign Language College Requirement

Students pursuing the Bachelor of Arts degree in the College of Arts and Sciences must complete 14-16 credit hours of foreign language.<sup>1</sup>

To complete the requirement, students have the equivalent of Elementary I and II in any language, plus one of the following options:

1. Intermediate I and II of the same language<sup>2</sup>
2. Elementary I and II of a second language
3. Any combination of two courses from the following list:

## Roadmap

This roadmap is a recommended semester-by-semester plan of study for this major. However, courses designated as critical (!) must be completed in the semester listed to ensure a timely graduation.

Semester One			Credits
!	MATH 12002	ANALYTIC GEOMETRY AND CALCULUS I (KMCR)	5
!	PHY 12000	INTRODUCTORY PHYSICS SEMINAR (ELR)	1
	UC 10097	DESTINATION KENT STATE: FIRST YEAR EXPERIENCE	1
	Foreign Language		4
	Kent Core Requirement		3
Credit Hours			14
Semester Two			Credits
!	MATH 12003	ANALYTIC GEOMETRY AND CALCULUS II	5
!	PHY 23101	GENERAL UNIVERSITY PHYSICS I (KBS) (KLAB)	5
	Foreign Language		4
Credit Hours			14
Semester Three			Credits
!	MATH 32051	MATHEMATICAL METHODS IN THE PHYSICAL SCIENCES I	4
!	PHY 23102	GENERAL UNIVERSITY PHYSICS II (KBS) (KLAB)	5
	Foreign Language		3
	College General Requirement		3
Credit Hours			15
Semester Four			Credits
!	MATH 32052	MATHEMATICAL METHODS IN THE PHYSICAL SCIENCES II	4
!	PHY 36001	INTRODUCTORY MODERN PHYSICS	3
	Foreign Language		3
	Kent Core Requirement		3
	Kent Core Requirement		3
Credit Hours			16
Semester Five			Credits
!	PHY 30020	INTERMEDIATE PHYSICS LABORATORY (WIC)	2
!	PHY 35101	CLASSICAL MECHANICS	4
!	PHY 36002	APPLICATIONS OF MODERN PHYSICS	3
	Kent Core Requirement		3
	College General Requirement		3
Credit Hours			15
Semester Six			Credits
	Physics (PHY) Upper-Division Elective (30000 or 40000 level)		3
	Kent Core Requirement		3
	Kent Core Requirement		3
	Kent Core Requirement		3
	General Elective		3
Credit Hours			15
Semester Seven			Credits
!	PHY 40020	ADVANCED PHYSICS LABORATORY (WIC)	2
!	PHY 45201	ELECTROMAGNETIC THEORY	4
	Kent Core Requirement		3
	Kent Core Requirement		3
	General Elective		3
Credit Hours			15
Semester Eight			Credits
	Physics (PHY) Upper-Division Electives (30000 or 40000 level)		5

General Electives	11
Credit Hours	16
Minimum Total Credit Hours:	120

## Physics - B.S.

### College of Arts and Sciences

Department of Physics  
103 Smith Hall  
Kent Campus  
330-672-2246  
physics-web@kent.edu  
www.kent.edu/physics

## Description

The Bachelor of Science degree in Physics is a professionally oriented program that serves as preparation either for graduate work in physics or for entrance into positions in a variety of industries or government service.

The Physics major comprises the following concentrations:

- The **Applied Physics** concentration prepares students for immediate entry into careers in industry. Course requirements include electronics, introduction to computer programming, and data analysis and computational physics techniques. While rooted in the basic principles of physics, this program is optimized for students concerned with the application of physics in practical devices and systems.
- The **Biological Sciences** concentration is interdisciplinary and for students with a strong interest in both physics and biology, who may wish to prepare for graduate study in biophysics or for work in a biotechnology company.
- The **Chemistry** concentration is interdisciplinary and designed for students with a strong interest in both physics and chemistry, who may wish to prepare for graduate study in chemical physics or for work in a high-technology materials-related research and development laboratory.
- The **Computer Science** concentration is interdisciplinary and provides a foundation in physics while emphasizing the use of computer software in scientific applications. Graduates are prepared for computer-related careers that require an understanding of the underlying science as well as knowledge of relevant computer applications.
- The **Entrepreneurship** concentration is interdisciplinary and designed to prepare physics majors for various aspects of starting or managing a scientific business.
- The **Mathematical Physics** concentration is interdisciplinary and provides students with a strong understanding of applied physical theory, its applications and the underlying mathematics. This training, valuable for start-up positions with a number of industries, may also serve as preparation for graduate work in either physics or mathematics.
- The **Pre-Medicine/Pre-Osteopathy/Pre-Podiatry** concentration is interdisciplinary and designed to prepare physics majors for further study leading to careers in medicine.
- The **Research** concentration prepares majors for further study at the graduate level. This program trains students in logical thinking and problem solving using both analytical and computational methods.



It also furnishes students with a comprehensive understanding of the basic laws and principles that govern the physical world. Academic assessment and GRE scores keep the program up-to-date via curricular revisions. This program is a popular stepping stone to graduate degrees not only in physics, but also in engineering, astronomy/astrophysics and materials science.

### Fully Offered At:

- Kent Campus

## Admission Requirements

The university affirmatively strives to provide educational opportunities and access to students with varied backgrounds, those with special talents and adult students who graduated from high school three or more years ago.

**Freshman Students on the Kent Campus:** The freshman admission policy on the Kent Campus is selective. Admission decisions are based upon the following: cumulative grade point average, ACT and/or SAT scores, strength of high school college preparatory curriculum and grade trends. The Admissions Office at the Kent Campus may defer the admission of students who do not meet admissions criteria but who demonstrate areas of promise for successful college study. Deferred applicants may begin their college coursework at one of seven regional campuses of Kent State University. For more information on admissions, including additional requirements for some academic programs, visit the admissions website for new freshmen.

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**English Language Proficiency Requirements for International Students:** All international students must provide proof of English language proficiency (unless they meet specific exceptions) by earning a minimum 525 TOEFL score (71 on the Internet-based version), minimum 75 MELAB score, minimum 6.0 IELTS score or minimum 48 PTE score, or by completing the ESL level 112 Intensive Program. For more information on international admission, visit the Office of Global Education's admission website.

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## Program Learning Outcomes

Graduates of this program will be able to:

1. Demonstrate technical and cognitive skills important in a good physicist, including the following:
  - a. Think critically and analytically.
  - b. Define a problem and how to solve problems.
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  - d. Use, design and even build lab equipment.

2. Demonstrate the traits important in a good scientist, namely, hard working, creative, meticulous, persistence, tenacious and self confidence.
3. Communicate results of their work to peers, to their instructors or supervisors, to various target groups within the physics community and to people outside the discipline.

## University Requirements

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**NOTE:** University requirements may be fulfilled in this program by specific course requirements. Please see Program Requirements for details.

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Students must successfully complete one domestic and one global course, of which one must be from the Kent Core.	
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Total Credit Hour Requirement	120
Some bachelor's degrees require students to complete more than 120 credit hours.	

## Kent Core Requirements

Kent Core Composition (KCMP)	6
Kent Core Mathematics and Critical Reasoning (KMCR)	3
Kent Core Humanities and Fine Arts (KHUM/KFA) (min one course each)	9
Kent Core Social Sciences (KSS) (must be from two disciplines)	6
Kent Core Basic Sciences (KBS/KLAB) (must include one laboratory)	6-7
Kent Core Additional (KADL)	6
<b>Total Credit Hours:</b>	<b>36-37</b>

## Program Requirements

### Major Requirements

Code	Title	Credit Hours
<b>Major Requirements (courses count in major GPA)</b>		
CHEM 10060	GENERAL CHEMISTRY I (KBS)	4
CHEM 10061	GENERAL CHEMISTRY II (KBS)	4
CHEM 10062	GENERAL CHEMISTRY I LABORATORY (KBS) (KLAB)	1
CHEM 10063	GENERAL CHEMISTRY II LABORATORY (KBS) (KLAB)	1

MATH 12002	ANALYTIC GEOMETRY AND CALCULUS I (KMCR)	5
MATH 12003	ANALYTIC GEOMETRY AND CALCULUS II	5
MATH 32051	MATHEMATICAL METHODS IN THE PHYSICAL SCIENCES I	4
MATH 32052	MATHEMATICAL METHODS IN THE PHYSICAL SCIENCES II	4
PHY 12000	INTRODUCTORY PHYSICS SEMINAR (ELR)	1
PHY 23101	GENERAL UNIVERSITY PHYSICS I (KBS) (KLAB) <sup>1</sup>	5
PHY 23102	GENERAL UNIVERSITY PHYSICS II (KBS) (KLAB) <sup>1</sup>	5
PHY 30020	INTERMEDIATE PHYSICS LABORATORY (WIC) <sup>2</sup>	2
PHY 35101	CLASSICAL MECHANICS	4
PHY 36001	INTRODUCTORY MODERN PHYSICS	3
PHY 40020	ADVANCED PHYSICS LABORATORY (WIC) <sup>2</sup>	2
PHY 40092	INTERNSHIP IN PHYSICS (ELR) <sup>3</sup>	2
PHY 45201	ELECTROMAGNETIC THEORY	4

**Additional Requirements (courses do not count in major GPA)**

UC 10097	DESTINATION KENT STATE: FIRST YEAR EXPERIENCE	1
Foreign Language (see Foreign Language College Requirement below)		8
Kent Core Composition		6
Kent Core Humanities and Fine Arts <sup>4</sup>		9

**Concentrations**

Choose from the following:	40
Applied Physics	
Biological Sciences	
Chemistry	
Computer Science	
Entrepreneurship	
Mathematical Physics	
Pre-Medicine/Pre-Osteopathy/Pre-Podiatry	
Research	

Minimum Total Credit Hours: 120

<sup>1</sup> Credit is not granted for both the PHY 13001/PHY 13002 and the PHY 23101/PHY 23102 series, nor for the PHY 13011/PHY 13012 series.

<sup>2</sup> A minimum C grade must be earned to fulfill the writing-intensive requirement.

<sup>3</sup> With advisor's permission. PHY 40092 may be replaced with PHY 40096 or PHY 40099. If PHY 40096 is taken, a suitable research project should be selected.

<sup>4</sup> PHIL 21001 is highly recommended to fulfill the Kent Core Humanities category for the Pre-Medicine/Pre-Osteopathy concentration. This course also fulfills the global diversity requirement.

**Applied Physics Concentration Requirements**

Code	Title	Credit Hours
<b>Concentration Requirements (courses count in major GPA)</b>		
CS 13011 & CS 13012	COMPUTER SCIENCE IA: PROCEDURAL PROGRAMMING and COMPUTER SCIENCE IB: OBJECT ORIENTED PROGRAMMING	4
or CS 13001	COMPUTER SCIENCE I: PROGRAMMING AND PROBLEM SOLVING	

PHY 22564	INTRODUCTION TO MATERIALS PHYSICS	3
PHY 32511	ELECTRONICS	4
PHY 36002	APPLICATIONS OF MODERN PHYSICS	3
PHY 45403	DATA ANALYSIS AND COMPUTATIONAL PHYSICS TECHNIQUES	3
PHY 45501	ELECTROMAGNETIC WAVES AND MODERN OPTICS	3

Physics (PHY) Elective 3

Physics (PHY) Upper-Division Elective (30000 or 40000 level) 3

**Additional Requirements (courses do not count in major GPA)**

Kent Core Social Sciences (must be from two disciplines) 6

General Elective (total credit hours depends on earning 120 credit hours, including 42 upper-division credit hours) 8

Minimum Total Credit Hours: 40

**Biological Sciences Concentration Requirements**

Code	Title	Credit Hours
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**Concentration Requirements (courses count in major GPA)**

BSCI 10110	BIOLOGICAL DIVERSITY (KBS) (KLAB)	4
BSCI 10120	BIOLOGICAL FOUNDATIONS (KBS) (KLAB)	4
BSCI 30140	CELL BIOLOGY	4
BSCI 30156	ELEMENTS OF GENETICS	3
BSCI 40163	EVOLUTION	3
PHY 45301	THERMAL PHYSICS	3
PHY 46101	QUANTUM MECHANICS	4
Major Upper-Division Elective <sup>1</sup>		3

**Additional Requirements (courses do not count in major GPA)**

Kent Core Social Sciences (must be from two disciplines) 6

General Elective (total credit hours depends on earning 120 credit hours, including 42 upper-division credit hours) 6

Minimum Total Credit Hours: 40

<sup>1</sup> Recommended major electives: BSCI 40158, CHEM 30481, PHY 41010, PHY 44600.

**Chemistry Concentration Requirements**

Code	Title	Credit Hours
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**Concentration Requirements (courses count in major GPA)**

CHEM 30481	ORGANIC CHEMISTRY I <sup>1</sup>	3
CHEM 30482	ORGANIC CHEMISTRY II	3
CHEM 30105	ANALYTICAL CHEMISTRY I	3
CHEM 30107	ANALYTICAL CHEMISTRY LABORATORY I (WIC)	1
CHEM 30301	INORGANIC CHEMISTRY I	2
PHY 36002	APPLICATIONS OF MODERN PHYSICS	3
PHY 45301	THERMAL PHYSICS	3
PHY 46101	QUANTUM MECHANICS	4

Physics (PHY) Electives 6

**Additional Requirements (courses do not count in major GPA)**

Kent Core Social Sciences (must be from two disciplines) 6

General Elective (total credit hours depends on earning 120 credit hours, including 42 upper-division credit hours) 6

Minimum Total Credit Hours: 40

<sup>1</sup> Students who have already completed CHEM 30481 and CHEM 30482 may not take and apply CHEM 20482 toward the program.

## Computer Science Concentration Requirements

Code	Title	Credit Hours
<b>Concentration Requirements (courses count in major GPA)</b>		
CS 13011 & CS 13012	COMPUTER SCIENCE IA: PROCEDURAL PROGRAMMING and COMPUTER SCIENCE IB: OBJECT ORIENTED PROGRAMMING	4
or CS 13001	COMPUTER SCIENCE I: PROGRAMMING AND PROBLEM SOLVING	
CS 23001	COMPUTER SCIENCE II: DATA STRUCTURES AND ABSTRACTION	4
CS 23022	DISCRETE STRUCTURES FOR COMPUTER SCIENCE	3
CS 42201	INTRODUCTION TO NUMERICAL COMPUTING I	3
PHY 36002	APPLICATIONS OF MODERN PHYSICS	3
PHY 46101	QUANTUM MECHANICS	4
Physics (PHY) Upper-Division Electives (30000 or 40000 level)		6
<b>Additional Requirements (courses do not count in major GPA)</b>		
Kent Core Social Sciences (must be from two disciplines)		6
General Elective (total credit hours depends on earning 120 credit hours, including 42 upper-division credit hours)		7
Minimum Total Credit Hours:		40

## Entrepreneurship Concentration Requirements

Code	Title	Credit Hours
<b>Concentration Requirements (courses count in major GPA)</b>		
ACCT 23020 or ENTR 37040	INTRODUCTION TO FINANCIAL ACCOUNTING ENTREPRENEURIAL TOOLS	3
ECON 22060	PRINCIPLES OF MICROECONOMICS (KSS)	3
ENTR 27056	INTRODUCTION TO ENTREPRENEURSHIP	3
ENTR 27466	SPEAKER SERIES IN ENTREPRENEURSHIP	1
ENTR 37065	ENTREPRENEURIAL FINANCE	3
MKTG 25010	PRINCIPLES OF MARKETING	3
Physics (PHY) Upper-Division Elective (30000 or 40000 level)		9
<b>Additional Requirements (courses do not count in major GPA)</b>		
Kent Core Social Sciences (must be from two disciplines)		6
General Elective (total credit hours depends on earning 120 credit hours, including 42 upper-division credit hours) <sup>1</sup>		9

<sup>1</sup> Recommended General Electives: ENTR 47047, and one of the following: ENTR 37045, ENTR 37075, MKTG 35056.

## Mathematical Physics Concentration Requirements

Code	Title	Credit Hours
<b>Concentration Requirements (courses count in major GPA)</b>		
CS 13011 & CS 13012	COMPUTER SCIENCE IA: PROCEDURAL PROGRAMMING and COMPUTER SCIENCE IB: OBJECT ORIENTED PROGRAMMING	4
or CS 13001	COMPUTER SCIENCE I: PROGRAMMING AND PROBLEM SOLVING	
PHY 36002	APPLICATIONS OF MODERN PHYSICS	3
PHY 45401	MATHEMATICAL METHODS IN PHYSICS	4
PHY 45403	DATA ANALYSIS AND COMPUTATIONAL PHYSICS TECHNIQUES	3
PHY 46101	QUANTUM MECHANICS	4

Physics (PHY) Electives	9
<b>Additional Requirements (courses do not count in major GPA)</b>	
Kent Core Social Sciences (must be from two disciplines)	6
General Elective (total credit hours depends on earning 120 credit hours, including 42 upper-division credit hours)	7
Minimum Total Credit Hours:	40

## Pre-Medicine/Pre-Osteopathy/Pre-Podiatry Concentration Requirements

Code	Title	Credit Hours
<b>Concentration Requirements (courses count in major GPA)</b>		
BSCI 10120	BIOLOGICAL FOUNDATIONS (KBS) (KLAB)	4
BSCI 30130	HUMAN PHYSIOLOGY	3
or BSCI 40430	ANIMAL PHYSIOLOGY	
BSCI 30140	CELL BIOLOGY	4
BSCI 30156	ELEMENTS OF GENETICS	3
BSCI 30171	GENERAL MICROBIOLOGY	4
CHEM 30284	INTRODUCTORY BIOLOGICAL CHEMISTRY	4
or CHEM 40245	BIOCHEMICAL FOUNDATIONS OF MEDICINE	
CHEM 30475	ORGANIC CHEMISTRY LABORATORY I (ELR)	1
CHEM 30476	ORGANIC CHEMISTRY LABORATORY II	1
CHEM 30481	ORGANIC CHEMISTRY I	3
CHEM 30482	ORGANIC CHEMISTRY II	3
PSYC 11762	GENERAL PSYCHOLOGY (DIVD) (KSS)	3
SOC 12050	INTRODUCTION TO SOCIOLOGY (DIVD) (KSS)	3
Concentration Elective, choose from the following:		3-4
BSCI 30518	VERTEBRATE ANATOMY	
BSCI 40174	IMMUNOLOGY	
BSCI 40517	MEDICAL HISTOLOGY	
PHY 41010	BIOPHOTONICS	
PHY 44600	INTRODUCTION TO BIOLOGICAL PHYSICS	
<b>Additional Requirements (courses do not count in major GPA)</b>		
General Elective (total credit hours depends on earning 120 credit hours, including 42 upper-division credit hours)		1
Minimum Total Credit Hours:		40

## Research Concentration Requirements

Code	Title	Credit Hours
<b>Concentration Requirements (courses count in major GPA)</b>		
CS 13011 & CS 13012	COMPUTER SCIENCE IA: PROCEDURAL PROGRAMMING and COMPUTER SCIENCE IB: OBJECT ORIENTED PROGRAMMING	4
or CS 13001	COMPUTER SCIENCE I: PROGRAMMING AND PROBLEM SOLVING	
PHY 36002	APPLICATIONS OF MODERN PHYSICS	3
PHY 45301	THERMAL PHYSICS	3
PHY 45403	DATA ANALYSIS AND COMPUTATIONAL PHYSICS TECHNIQUES	3
PHY 46101	QUANTUM MECHANICS	4
Physics (PHY) Electives		5
Physics (PHY) Upper-Division Electives (30000 or 40000 level)		4
<b>Additional Requirements (courses do not count in major GPA)</b>		
Kent Core Social Sciences (must be from two disciplines)		6

General Elective (total credit hours depends on earning 120 credit hours, including 42 upper-division credit hours)	8
Minimum Total Credit Hours:	40

## Graduation Requirements

Minimum Major GPA	Minimum Overall GPA
2.000	2.000

- The following courses may not count towards the Physics major requirements: PHY 11030, PHY 21040, PHY 21041, PHY 21430 and PHY 21431.

### Foreign Language College Requirement

- Students pursuing the Bachelor of Science degree in the College of Arts and Sciences must complete 8 credit hours of foreign language.<sup>1</sup>
- Minimum Elementary I and II of the same language

<sup>1</sup> All students with prior foreign language experience should take the foreign language placement test to determine the appropriate level at which to start. Some students may begin their university foreign language experience beyond the Elementary I level and will complete the requirement with fewer credit hours and fewer courses. This may be accomplished by: (1) passing a course beyond the Elementary I through Intermediate II level or (2) receiving credit through Credit by Exam (CBE), the College Level Examination Program (CLEP), the Advanced Placement (AP) exam or credit through the International Baccalaureate (IB) program; or (3) being designated a 'native speaker' of a non-English language (consult with the College of Arts and Sciences Advising Office for additional information). When students complete the requirement with fewer than 8 credit hours and two courses, they will complete the remaining hours with general electives.

## Roadmaps

- Applied Physics Concentration
- Biological Sciences Concentration
- Chemistry Concentration
- Computer Science Concentration
- Entrepreneurship Concentration
- Mathematical Physics Concentration
- Pre-Medicine/Pre-Osteopathy/Pre-Podiatry Concentration
- Research Concentration

### Applied Physics Concentration

This roadmap is a recommended semester-by-semester plan of study for this major. However, courses designated as critical (!) must be completed in the semester listed to ensure a timely graduation.

Semester One		Credits
!	MATH 12002 ANALYTIC GEOMETRY AND CALCULUS I (KMCR)	5
!	PHY 12000 INTRODUCTORY PHYSICS SEMINAR (ELR)	1
!	PHY 23101 GENERAL UNIVERSITY PHYSICS I (KBS) (KLAB)	5
	UC 10097 DESTINATION KENT STATE: FIRST YEAR EXPERIENCE	1
	Kent Core Requirement	3
Credit Hours		15
Semester Two		Credits
!	MATH 12003 ANALYTIC GEOMETRY AND CALCULUS II	5
!	PHY 23102 GENERAL UNIVERSITY PHYSICS II (KBS) (KLAB)	5
	Kent Core Requirement	3
	Kent Core Requirement	3
Credit Hours		16
Semester Three		Credits
!	CHEM 10060 GENERAL CHEMISTRY I (KBS)	4
!	CHEM 10062 GENERAL CHEMISTRY I LABORATORY (KBS) (KLAB)	1
!	MATH 32051 MATHEMATICAL METHODS IN THE PHYSICAL SCIENCES I	4
	Foreign Language	4
	Kent Core Requirement	3
Credit Hours		16
Semester Four		Credits
!	CHEM 10061 GENERAL CHEMISTRY II (KBS)	4
!	CHEM 10063 GENERAL CHEMISTRY II LABORATORY (KBS) (KLAB)	1
!	MATH 32052 MATHEMATICAL METHODS IN THE PHYSICAL SCIENCES II	4
!	PHY 36001 INTRODUCTORY MODERN PHYSICS	3
	Foreign Language	4
Credit Hours		16
Semester Five		Credits
!	CS 13011 COMPUTER SCIENCE IA: PROCEDURAL PROGRAMMING & CS 13012 or CS 13001 and COMPUTER SCIENCE IB: OBJECT ORIENTED PROGRAMMING or COMPUTER SCIENCE I: PROGRAMMING AND PROBLEM SOLVING	4
!	PHY 35101 CLASSICAL MECHANICS	4
!	PHY 36002 APPLICATIONS OF MODERN PHYSICS	3

!	PHY 45201 ELECTROMAGNETIC THEORY	4
Credit Hours		15
Semester Six		Credits
!	PHY 22564 INTRODUCTION TO MATERIALS PHYSICS	3
!	PHY 30020 INTERMEDIATE PHYSICS LABORATORY (WIC)	2
!	PHY 45403 DATA ANALYSIS AND COMPUTATIONAL PHYSICS TECHNIQUES	3
	Physics (PHY) Elective	3
	Kent Core Requirement	3
Credit Hours		14
Semester Seven		Credits
!	PHY 32511 ELECTRONICS	4
!	PHY 40092 INTERNSHIP IN PHYSICS (ELR)	2
	Kent Core Requirement	3
	Kent Core Requirement	3
	General Elective	3
Credit Hours		15
Semester Eight		Credits
!	PHY 40020 ADVANCED PHYSICS LABORATORY (WIC)	2
!	PHY 45501 ELECTROMAGNETIC WAVES AND MODERN OPTICS	3
	Physics (PHY) Upper-Division Elective (PHY 30000 or 40000)	3
	General Electives	5
Credit Hours		13
Minimum Total Credit Hours:		120

### Biological Sciences Concentration

This roadmap is a recommended semester-by-semester plan of study for this major. However, courses designated as critical (!) must be completed in the semester listed to ensure a timely graduation.

Semester One		Credits
!	CHEM 10060 GENERAL CHEMISTRY I (KBS)	4
!	CHEM 10062 GENERAL CHEMISTRY I LABORATORY (KBS) (KLAB)	1
!	MATH 12002 ANALYTIC GEOMETRY AND CALCULUS I (KMCR)	5
!	PHY 12000 INTRODUCTORY PHYSICS SEMINAR (ELR)	1
	UC 10097 DESTINATION KENT STATE: FIRST YEAR EXPERIENCE	1
	Kent Core Requirement	3
Credit Hours		15
Semester Two		Credits
!	CHEM 10061 GENERAL CHEMISTRY II (KBS)	4
!	CHEM 10063 GENERAL CHEMISTRY II LABORATORY (KBS) (KLAB)	1
!	MATH 12003 ANALYTIC GEOMETRY AND CALCULUS II	5
!	PHY 23101 GENERAL UNIVERSITY PHYSICS I (KBS) (KLAB)	5
Credit Hours		15
Semester Three		Credits
!	BSCI 10110 BIOLOGICAL DIVERSITY (KBS) (KLAB)	4
!	MATH 32051 MATHEMATICAL METHODS IN THE PHYSICAL SCIENCES I	4
!	PHY 23102 GENERAL UNIVERSITY PHYSICS II (KBS) (KLAB)	5
	Kent Core Requirement	3
Credit Hours		16
Semester Four		Credits
!	BSCI 10120 BIOLOGICAL FOUNDATIONS (KBS) (KLAB)	4



!	MATH 32052	MATHEMATICAL METHODS IN THE PHYSICAL SCIENCES II	4	
!	PHY 36001	INTRODUCTORY MODERN PHYSICS	3	
Kent Core Requirement			3	
Credit Hours			14	
<b>Semester Five</b>				
!	BSCI 30156	ELEMENTS OF GENETICS	3	
!	PHY 35101	CLASSICAL MECHANICS	4	
Foreign Language			4	
Major Elective			3	
Credit Hours			14	
<b>Semester Six</b>				
!	BSCI 30140	CELL BIOLOGY	4	
!	PHY 30020	INTERMEDIATE PHYSICS LABORATORY (WIC)	2	
Foreign Language			4	
Kent Core Requirement			3	
Kent Core Requirement			3	
Credit Hours			16	
<b>Semester Seven</b>				
!	BSCI 40163	EVOLUTION	3	
!	PHY 40092	INTERNSHIP IN PHYSICS (ELR)	2	
!	PHY 45201	ELECTROMAGNETIC THEORY	4	
Kent Core Requirement			3	
Kent Core Requirement			3	
Credit Hours			15	
<b>Semester Eight</b>				
!	PHY 40020	ADVANCED PHYSICS LABORATORY (WIC)	2	
!	PHY 45301	THERMAL PHYSICS	3	
PHY 46101			QUANTUM MECHANICS	4
General Electives			6	
Credit Hours			15	
Minimum Total Credit Hours:			120	

## Chemistry Concentration

This roadmap is a recommended semester-by-semester plan of study for this major. However, courses designated as critical (!) must be completed in the semester listed to ensure a timely graduation.

			Credits	
<b>Semester One</b>				
!	CHEM 10060	GENERAL CHEMISTRY I (KBS)	4	
!	CHEM 10062	GENERAL CHEMISTRY I LABORATORY (KBS) (KLAB)	1	
!	MATH 12002	ANALYTIC GEOMETRY AND CALCULUS I (KMCR)	5	
!	PHY 12000	INTRODUCTORY PHYSICS SEMINAR (ELR)	1	
UC 10097			DESTINATION KENT STATE: FIRST YEAR EXPERIENCE	1
Kent Core Requirement			3	
Credit Hours			15	
<b>Semester Two</b>				
!	CHEM 10061	GENERAL CHEMISTRY II (KBS)	4	
!	CHEM 10063	GENERAL CHEMISTRY II LABORATORY (KBS) (KLAB)	1	
!	MATH 12003	ANALYTIC GEOMETRY AND CALCULUS II	5	
!	PHY 23101	GENERAL UNIVERSITY PHYSICS I (KBS) (KLAB)	5	
Credit Hours			15	
<b>Semester Three</b>				
CHEM 30481			ORGANIC CHEMISTRY I	3

!	MATH 32051	MATHEMATICAL METHODS IN THE PHYSICAL SCIENCES I	4	
!	PHY 23102	GENERAL UNIVERSITY PHYSICS II (KBS) (KLAB)	5	
Kent Core Requirement			3	
Credit Hours			15	
<b>Semester Four</b>				
CHEM 30482			ORGANIC CHEMISTRY II	3
!	MATH 32052	MATHEMATICAL METHODS IN THE PHYSICAL SCIENCES II	4	
!	PHY 36001	INTRODUCTORY MODERN PHYSICS	3	
Kent Core Requirement			3	
General Elective			3	
Credit Hours			16	
<b>Semester Five</b>				
!	PHY 35101	CLASSICAL MECHANICS	4	
!	PHY 36002	APPLICATIONS OF MODERN PHYSICS	3	
Foreign Language			4	
Kent Core Requirements			3	
Credit Hours			14	
<b>Semester Six</b>				
!	CHEM 30301	INORGANIC CHEMISTRY I	2	
!	PHY 30020	INTERMEDIATE PHYSICS LABORATORY (WIC)	2	
!	PHY 45301	THERMAL PHYSICS	3	
PHY 46101			QUANTUM MECHANICS	4
Foreign Language			4	
Credit Hours			15	
<b>Semester Seven</b>				
!	CHEM 30105	ANALYTICAL CHEMISTRY I	3	
!	CHEM 30107	ANALYTICAL CHEMISTRY LABORATORY I (WIC)	1	
!	PHY 40092	INTERNSHIP IN PHYSICS (ELR)	2	
!	PHY 45201	ELECTROMAGNETIC THEORY	4	
Kent Core Requirement			3	
Kent Core Requirement			3	
Credit Hours			16	
<b>Semester Eight</b>				
!	PHY 40020	ADVANCED PHYSICS LABORATORY (WIC)	2	
Physics (PHY) Electives			6	
Kent Core Requirement			3	
General Electives			3	
Credit Hours			14	
Minimum Total Credit Hours:			120	

## Computer Science concentration

This roadmap is a recommended semester-by-semester plan of study for this major. However, courses designated as critical (!) must be completed in the semester listed to ensure a timely graduation.

			Credits	
!	MATH 12002	ANALYTIC GEOMETRY AND CALCULUS I (KMCR)	5	
!	PHY 12000	INTRODUCTORY PHYSICS SEMINAR (ELR)	1	
UC 10097			DESTINATION KENT STATE: FIRST YEAR EXPERIENCE	1
Kent Core Requirement			3	
Kent Core Requirement			3	
General Elective			3	
Credit Hours			16	

**Semester Two**

!	CS 13011 & CS 13012 or CS 13001	COMPUTER SCIENCE IA: PROCEDURAL PROGRAMMING and COMPUTER SCIENCE IB: OBJECT ORIENTED PROGRAMMING or COMPUTER SCIENCE I: PROGRAMMING AND PROBLEM SOLVING	4
!	MATH 12003	ANALYTIC GEOMETRY AND CALCULUS II	5
!	PHY 23101	GENERAL UNIVERSITY PHYSICS I (KBS) (KLAB)	5
Credit Hours			14

**Semester Three**

!	CS 23022	DISCRETE STRUCTURES FOR COMPUTER SCIENCE	3
!	MATH 32051	MATHEMATICAL METHODS IN THE PHYSICAL SCIENCES I	4
!	PHY 23102	GENERAL UNIVERSITY PHYSICS II (KBS) (KLAB)	5
Foreign Language			4
Credit Hours			16

**Semester Four**

!	MATH 32052	MATHEMATICAL METHODS IN THE PHYSICAL SCIENCES II	4
!	PHY 36001	INTRODUCTORY MODERN PHYSICS	3
Foreign Language			4
Kent Core Requirement			3
Credit Hours			14

**Semester Five**

!	PHY 30020	INTERMEDIATE PHYSICS LABORATORY (WIC)	2
!	PHY 35101	CLASSICAL MECHANICS	4
!	PHY 36002	APPLICATIONS OF MODERN PHYSICS	3
!	PHY 45201	ELECTROMAGNETIC THEORY	4
Kent Core Requirement			3
Credit Hours			16

**Semester Six**

!	CS 23001	COMPUTER SCIENCE II: DATA STRUCTURES AND ABSTRACTION	4
	PHY 46101	QUANTUM MECHANICS	4
	Physics (PHY) Upper-Division Elective (30000 or 40000 level)		3
Kent Core Requirement			3
Credit Hours			14

**Semester Seven**

!	CHEM 10060	GENERAL CHEMISTRY I (KBS)	4
!	CHEM 10062	GENERAL CHEMISTRY I LABORATORY (KBS) (KLAB)	1
!	CS 42201	INTRODUCTION TO NUMERICAL COMPUTING I	3
!	PHY 40020	ADVANCED PHYSICS LABORATORY (WIC)	2
!	PHY 40092	INTERNSHIP IN PHYSICS (ELR)	2
Kent Core Requirement			3
Credit Hours			15

**Semester Eight**

!	CHEM 10061	GENERAL CHEMISTRY II (KBS)	4
!	CHEM 10063	GENERAL CHEMISTRY II LABORATORY (KBS) (KLAB)	1
	Physics (PHY) Upper-Division Elective (30000 or 40000 level)		3
Kent Core Requirements			3
General Elective			4
Credit Hours			15
Minimum Total Credit Hours:			120

**Entrepreneurship concentration**

This roadmap is a recommended semester-by-semester plan of study for this major. However, courses designated as critical (!) must be completed in the semester listed to ensure a timely graduation.

**Semester One**

			Credits
!	CHEM 10060	GENERAL CHEMISTRY I (KBS)	4
!	CHEM 10062	GENERAL CHEMISTRY I LABORATORY (KBS) (KLAB)	1
!	MATH 12002	ANALYTIC GEOMETRY AND CALCULUS I (KMCR)	5
!	PHY 12000	INTRODUCTORY PHYSICS SEMINAR (ELR)	1
	UC 10097	DESTINATION KENT STATE: FIRST YEAR EXPERIENCE	1
Kent Core Requirement			3
Credit Hours			15

**Semester Two**

!	CHEM 10061	GENERAL CHEMISTRY II (KBS)	4
!	CHEM 10063	GENERAL CHEMISTRY II LABORATORY (KBS) (KLAB)	1
!	MATH 12003	ANALYTIC GEOMETRY AND CALCULUS II	5
!	PHY 23101	GENERAL UNIVERSITY PHYSICS I (KBS) (KLAB)	5
Credit Hours			15

**Semester Three**

!	ECON 22060	PRINCIPLES OF MICROECONOMICS (KSS)	3
!	ENTR 27056	INTRODUCTION TO ENTREPRENEURSHIP	3
!	MATH 32051	MATHEMATICAL METHODS IN THE PHYSICAL SCIENCES I	4
!	PHY 23102	GENERAL UNIVERSITY PHYSICS II (KBS) (KLAB)	5
Credit Hours			15

**Semester Four**

!	MATH 32052	MATHEMATICAL METHODS IN THE PHYSICAL SCIENCES II	4
!	PHY 36001	INTRODUCTORY MODERN PHYSICS	3
Kent Core Requirement			3
Kent Core Requirement			3
General Elective			3
Credit Hours			16

**Semester Five**

	ACCT 23020 or ENTR 37040	INTRODUCTION TO FINANCIAL ACCOUNTING or ENTREPRENEURIAL TOOLS	3
!	PHY 35101	CLASSICAL MECHANICS	4
	PHY 45201	ELECTROMAGNETIC THEORY	4
Foreign Language			4
Credit Hours			15

**Semester Six**

	ENTR 27466	SPEAKER SERIES IN ENTREPRENEURSHIP	1
	ENTR 37065	ENTREPRENEURIAL FINANCE	3
	MKTG 25010	PRINCIPLES OF MARKETING	3
!	PHY 30020	INTERMEDIATE PHYSICS LABORATORY (WIC)	2
Foreign Language			4
Kent Core Requirement			3
Credit Hours			16

**Semester Seven**

!	PHY 40092	INTERNSHIP IN PHYSICS (ELR)	2
	Physics (PHY) Upper-Division Elective (PHY 30000 or 40000)		3
Kent Core Requirement			3
Kent Core Requirement			3

General Elective	3
Credit Hours	14
<b>Semester Eight</b>	
! PHY 40020 ADVANCED PHYSICS LABORATORY (WIC)	2
Physics (PHY) Upper-Division Elective (PHY 30000 or 40000)	6
Kent Core Requirement	3
General Electives	3
Credit Hours	14
Minimum Total Credit Hours:	120

## Mathematical Physics Concentration

This roadmap is a recommended semester-by-semester plan of study for this major. However, courses designated as critical (!) must be completed in the semester listed to ensure a timely graduation.

Semester One	Credits
! CHEM 10060 GENERAL CHEMISTRY I (KBS)	4
! CHEM 10062 GENERAL CHEMISTRY I LABORATORY (KBS) (KLAB)	1
! MATH 12002 ANALYTIC GEOMETRY AND CALCULUS I (KMCR)	5
! PHY 12000 INTRODUCTORY PHYSICS SEMINAR (ELR)	1
UC 10097 DESTINATION KENT STATE: FIRST YEAR EXPERIENCE	1
Kent Core Requirement	3
Credit Hours	15
<b>Semester Two</b>	
! CHEM 10061 GENERAL CHEMISTRY II (KBS)	4
! CHEM 10063 GENERAL CHEMISTRY II LABORATORY (KBS) (KLAB)	1
! MATH 12003 ANALYTIC GEOMETRY AND CALCULUS II	5
! PHY 23101 GENERAL UNIVERSITY PHYSICS I (KBS) (KLAB)	5
Credit Hours	15
<b>Semester Three</b>	
! CS 13011 COMPUTER SCIENCE IA: PROCEDURAL PROGRAMMING & CS 13012 and COMPUTER SCIENCE IB: OBJECT ORIENTED PROGRAMMING or CS 13001 or COMPUTER SCIENCE I: PROGRAMMING AND PROBLEM SOLVING	4
! MATH 32051 MATHEMATICAL METHODS IN THE PHYSICAL SCIENCES I	4
! PHY 23102 GENERAL UNIVERSITY PHYSICS II (KBS) (KLAB)	5
General Elective	3
Credit Hours	16
<b>Semester Four</b>	
! MATH 32052 MATHEMATICAL METHODS IN THE PHYSICAL SCIENCES II	4
! PHY 36001 INTRODUCTORY MODERN PHYSICS	3
Kent Core Requirement	3
Kent Core Requirement	3
General Elective	3
Credit Hours	16
<b>Semester Five</b>	
! PHY 35101 CLASSICAL MECHANICS	4
! PHY 36002 APPLICATIONS OF MODERN PHYSICS	3
! PHY 45201 ELECTROMAGNETIC THEORY	4
Foreign Language	4
Credit Hours	15

Semester Six	Credits
! PHY 30020 INTERMEDIATE PHYSICS LABORATORY (WIC)	2
! PHY 45403 DATA ANALYSIS AND COMPUTATIONAL PHYSICS TECHNIQUES	3
PHY 46101 QUANTUM MECHANICS	4
Foreign Language	4
Credit Hours	13
<b>Semester Seven</b>	
! PHY 40092 INTERNSHIP IN PHYSICS (ELR)	2
! PHY 45401 MATHEMATICAL METHODS IN PHYSICS	4
Physics (PHY) Elective	3
Kent Core Requirement	3
Kent Core Requirement	3
Credit Hours	15
<b>Semester Eight</b>	
! PHY 40020 ADVANCED PHYSICS LABORATORY (WIC)	2
Physics (PHY) Elective	6
Kent Core Requirement	3
Kent Core Requirement	3
General Elective	1
Credit Hours	15
Minimum Total Credit Hours:	120

## Pre-Medicine/Pre-Osteopathy/Pre-Podiatry Concentration

This roadmap is a recommended semester-by-semester plan of study for this major. However, courses designated as critical (!) must be completed in the semester listed to ensure a timely graduation.

Semester One	Credits
! CHEM 10060 GENERAL CHEMISTRY I (KBS)	4
! CHEM 10062 GENERAL CHEMISTRY I LABORATORY (KBS) (KLAB)	1
! MATH 12002 ANALYTIC GEOMETRY AND CALCULUS I (KMCR)	5
! PHY 12000 INTRODUCTORY PHYSICS SEMINAR (ELR)	1
! PHY 23101 GENERAL UNIVERSITY PHYSICS I (KBS) (KLAB)	5
UC 10097 DESTINATION KENT STATE: FIRST YEAR EXPERIENCE	1
Credit Hours	17
<b>Semester Two</b>	
! CHEM 10061 GENERAL CHEMISTRY II (KBS)	4
! CHEM 10063 GENERAL CHEMISTRY II LABORATORY (KBS) (KLAB)	1
! MATH 12003 ANALYTIC GEOMETRY AND CALCULUS II	5
! PHY 23102 GENERAL UNIVERSITY PHYSICS II (KBS) (KLAB)	5
Credit Hours	15
<b>Semester Three</b>	
! BSCI 10120 BIOLOGICAL FOUNDATIONS (KBS) (KLAB)	4
! CHEM 30475 ORGANIC CHEMISTRY LABORATORY I (ELR)	1
! CHEM 30481 ORGANIC CHEMISTRY I	3
! MATH 32051 MATHEMATICAL METHODS IN THE PHYSICAL SCIENCES I	4
PSYC 11762 GENERAL PSYCHOLOGY (DIVD) (KSS)	3
Credit Hours	15
<b>Semester Four</b>	
! BSCI 30140 CELL BIOLOGY	4
! CHEM 30476 ORGANIC CHEMISTRY LABORATORY II	1
! CHEM 30482 ORGANIC CHEMISTRY II	3

!	MATH 32052	MATHEMATICAL METHODS IN THE PHYSICAL SCIENCES II	4
!	PHY 36001	INTRODUCTORY MODERN PHYSICS	3
Credit Hours			15
<b>Semester Five</b>			
!	BSCI 30130 or BSCI 40430	HUMAN PHYSIOLOGY or ANIMAL PHYSIOLOGY	3
!	BSCI 30156	ELEMENTS OF GENETICS	3
!	PHY 35101	CLASSICAL MECHANICS	4
	SOC 12050	INTRODUCTION TO SOCIOLOGY (DIVD) (KSS)	3
Concentration Elective or Kent Core Requirement			3
Credit Hours			16
<b>Semester Six</b>			
!	BSCI 30171	GENERAL MICROBIOLOGY	4
!	CHEM 30284 or CHEM 40245	INTRODUCTORY BIOLOGICAL CHEMISTRY or BIOCHEMICAL FOUNDATIONS OF MEDICINE	4
!	PHY 30020	INTERMEDIATE PHYSICS LABORATORY (WIC)	2
Concentration Elective or Kent Core Requirement			3
Kent Core Requirement			3
Credit Hours			16
<b>Semester Seven</b>			
!	PHY 40092	INTERNSHIP IN PHYSICS (ELR)	2
!	PHY 45201	ELECTROMAGNETIC THEORY	4
Foreign Language			4
Kent Core Requirement			3
Credit Hours			13
<b>Semester Eight</b>			
!	PHY 40020	ADVANCED PHYSICS LABORATORY (WIC)	2
Foreign Language			4
Kent Core Requirement			3
Kent Core Requirement			3
General Elective			1
Credit Hours			13
Minimum Total Credit Hours:			120

## Research Concentration

This roadmap is a recommended semester-by-semester plan of study for this major. However, courses designated as critical (!) must be completed in the semester listed to ensure a timely graduation.

	Semester One		Credits
!	MATH 12002	ANALYTIC GEOMETRY AND CALCULUS I (KMCR)	5
!	PHY 12000	INTRODUCTORY PHYSICS SEMINAR (ELR)	1
!	PHY 23101	GENERAL UNIVERSITY PHYSICS I (KBS) (KLAB)	5
	UC 10097	DESTINATION KENT STATE: FIRST YEAR EXPERIENCE	1
Kent Core Requirement			3
Credit Hours			15
<b>Semester Two</b>			
!	MATH 12003	ANALYTIC GEOMETRY AND CALCULUS II	5
!	PHY 23102	GENERAL UNIVERSITY PHYSICS II (KBS) (KLAB)	5
Kent Core Requirement			3
Kent Core Requirement			3
Credit Hours			16
<b>Semester Three</b>			
!	CHEM 10060	GENERAL CHEMISTRY I (KBS)	4

!	CHEM 10062	GENERAL CHEMISTRY I LABORATORY (KBS) (KLAB)	1
!	MATH 32051	MATHEMATICAL METHODS IN THE PHYSICAL SCIENCES I	4
Foreign Language			4
Kent Core Requirement			3
Credit Hours			16
<b>Semester Four</b>			
!	CHEM 10061	GENERAL CHEMISTRY II (KBS)	4
!	CHEM 10063	GENERAL CHEMISTRY II LABORATORY (KBS) (KLAB)	1
!	MATH 32052	MATHEMATICAL METHODS IN THE PHYSICAL SCIENCES II	4
!	PHY 36001	INTRODUCTORY MODERN PHYSICS	3
Foreign Language			4
Credit Hours			16
<b>Semester Five</b>			
!	CS 13011 & CS 13012 or CS 13001	COMPUTER SCIENCE IA: PROCEDURAL PROGRAMMING and COMPUTER SCIENCE IB: OBJECT ORIENTED PROGRAMMING or COMPUTER SCIENCE I: PROGRAMMING AND PROBLEM SOLVING	4
!	PHY 35101	CLASSICAL MECHANICS	4
!	PHY 36002	APPLICATIONS OF MODERN PHYSICS	3
!	PHY 45201	ELECTROMAGNETIC THEORY	4
Credit Hours			15
<b>Semester Six</b>			
!	PHY 30020	INTERMEDIATE PHYSICS LABORATORY (WIC)	2
!	PHY 45301	THERMAL PHYSICS	3
!	PHY 45403	DATA ANALYSIS AND COMPUTATIONAL PHYSICS TECHNIQUES	3
!	PHY 46101	QUANTUM MECHANICS	4
Physics (PHY) Elective			3
Credit Hours			15
<b>Semester Seven</b>			
!	PHY 40092	INTERNSHIP IN PHYSICS (ELR)	2
Physics (PHY) Elective			2
Kent Core Requirement			3
Kent Core Requirement			3
General Elective			3
Credit Hours			13
<b>Semester Eight</b>			
!	PHY 40020	ADVANCED PHYSICS LABORATORY (WIC)	2
Physics (PHY) Elective (PHY 30000 or 40000 level)			4
Kent Core Requirement			3
General Electives			5
Credit Hours			14
Minimum Total Credit Hours:			120

## Physics - M.A.

### College of Arts and Sciences

Department of Physics

103 Smith Hall

Kent Campus

330-672-2246

physics-web@kent.edu

www.kent.edu/physics

## Description

The Master of Arts degree in Physics is a highly flexible program consisting of graduate coursework that can be customized according to the academic background and needs of the individual student. This flexibility is a good match for the needs of part-time students who continue to hold full-time employment in secondary education or in industry. Post-baccalaureate students in the Ph.D. degree in Physics may apply for the M.A. degree after completing the requirements.

### Fully Offered At:

- Kent Campus

## Admission Requirements

- Bachelor's degree from an accredited college or university for unconditional admission
- Minimum 3.000 undergraduate GPA on a 4.000 point scale for unconditional admission
- Official transcript(s)
- GRE (general) scores
- Résumé or vita
- Goal statement
- Three letters of recommendation
- English language proficiency - all international students must provide proof of English language proficiency (unless they meet specific exceptions) by earning one of the following:
  - Minimum 550 TOEFL PBT score (paper-based version)
  - Minimum 79 TOEFL IBT score (Internet-based version)
  - Minimum 77 MELAB score
  - Minimum 6.5 IELTS score
  - Minimum 58 PTE score
  - Minimum 110 Duolingo test score

For more information about graduate admissions, please visit the Graduate Studies admission website. For more information on international admission, visit the Office of Global Education's admission website.

## Program Learning Outcomes

Graduates of these programs will be able to:

1. Demonstrate cognitive skills important to a physicist, including to think critically and analytically and define and solve problems in physics.
2. Demonstrate a core knowledge and understanding of the foundations of physics.

## Program Requirements

### Major Requirements

Code	Title	Credit Hours
Physics (PHY) Electives <sup>1</sup>		16
Physics (PHY) Electives, 60000-level <sup>1</sup>		16
Minimum Total Credit Hours:		32

<sup>1</sup> Electives planned by the student together with the faculty advisor to best fulfill the preparation of the student.

### Graduation Requirements

A total of 32 semester hours of graduate credit is required, with no more than one half at the 50000 level. The distribution of these hours will be planned by the student together with the faculty advisor to best fulfill the preparation of the student.

## Physics - M.S.

### College of Arts and Sciences

Department of Physics

103 Smith Hall

Kent Campus

330-672-2246

physics-web@kent.edu

www.kent.edu/physics

## Description

The Master of Science degree in Physics consists of graduate coursework and a research project taking one or two semesters. The research project should result in a written report. Students may choose to complete a thesis, to be defended orally. This degree provides entry-level qualifications for team research employment or a high school teaching career.

### Fully Offered At:

- Kent Campus

## Admission Requirements

- Bachelor's degree from an accredited college or university for unconditional admission
- Minimum 3.000 undergraduate GPA on a 4.000 point scale for unconditional admission
- Official transcript(s)
- GRE (general) test scores
- Résumé or vita
- Goal statement
- Three letters of recommendation
- English language proficiency - all international students must provide proof of English language proficiency (unless they meet specific exceptions) by earning one of the following:
  - Minimum 550 TOEFL PBT score (paper-based version)
  - Minimum 79 TOEFL IBT score (Internet-based version)



- Minimum 77 MELAB score
- Minimum 6.5 IELTS score
- Minimum 58 PTE score
- Minimum 110 Duolingo English Test score

For more information about graduate admissions, please visit the Graduate Studies admission website. For more information on international admission, visit the Office of Global Education's admission website.

## Program Learning Outcomes

Graduates of these programs will be able to:

1. Demonstrate cognitive skills important to a physicist, including the following:
  - a. Think critically and analytically;
  - b. Define and solve problems in physics; and
  - c. Conduct quantitative research in a contemporary area of physics.
2. Demonstrate a core knowledge and understanding of the foundations of physics.
3. Communicate results of their work to peers, to various target groups within the physics community, and to people outside the discipline. Teaching skills also come under this heading.

## Program Requirements

### Major Requirements

Code	Title	Credit Hours
PHY 65101	CLASSICAL MECHANICS	3
PHY 66161	QUANTUM MECHANICS I	3
Graduate-Level Electives <sup>1</sup>		12-14
Major Electives, choose from the following:		6-8
PHY 55201	ELECTROMAGNETIC THEORY	
PHY 55301	THERMAL PHYSICS	
PHY 55401	MATHEMATICAL METHODS IN PHYSICS	
PHY 65203	CLASSICAL ELECTRODYNAMICS I	
PHY 65301	STATISTICAL MECHANICS I	
Culminating Experience, choose from the following:		6
PHY 60098	RESEARCH <sup>2</sup>	
PHY 60199	THESIS I <sup>3</sup>	
Minimum Total Credit Hours:		32

<sup>1</sup> Electives are selected in consultation with the student's faculty advisor and approved by the department.

<sup>2</sup> Students who select research (non-thesis option) are required to submit a written research report.

<sup>3</sup> Students who select the thesis option are required to submit and orally defend a thesis. The thesis topic is chosen together with the research advisor and must be defended to a committee of physics graduate faculty.

## Physics - Minor

### College of Arts and Sciences

Department of Physics  
103 Smith Hall  
Kent Campus

330-672-2246  
physics-web@kent.edu  
www.kent.edu/physics

## Description

The Physics minor allows students with a major or interest in natural sciences, mathematics, education and technology to complement their studies and enhance their academic credentials. Non-science majors may find the Physics minor enhances their knowledge of this useful and fascinating field.

### Fully Offered At:

- Kent Campus

## Admission Requirements

Admission to a minor is open to students declared in a bachelor's degree, the A.A.B. or A.A.S. degree or the A.T.S. degree (not Individualized Program major). Students declared only in the A.A. or A.S. degree or the A.T.S. degree in Individualized Program may not declare a minor. Students may not pursue a minor and a major in the same discipline.

## Minor Requirements

Code	Title	Credit Hours
<b>Minor Prerequisites</b>		
MATH 11010	ALGEBRA FOR CALCULUS (KMCR)	
MATH 11022	TRIGONOMETRY (KMCR)	
MATH 12002	ANALYTIC GEOMETRY AND CALCULUS I (KMCR)	
MATH 12003	ANALYTIC GEOMETRY AND CALCULUS II	
<b>Minor Requirements</b>		
PHY 12000	INTRODUCTORY PHYSICS SEMINAR (ELR)	1
PHY 23101	GENERAL UNIVERSITY PHYSICS I (KBS) (KLAB)	5
PHY 23102	GENERAL UNIVERSITY PHYSICS II (KBS) (KLAB)	5
PHY 30020	INTERMEDIATE PHYSICS LABORATORY (WIC)	2
PHY 36001	INTRODUCTORY MODERN PHYSICS	3
PHY 36002	APPLICATIONS OF MODERN PHYSICS	3
Physics Upper-Division Electives (PHY 30000 or 40000 level)		3
Minimum Total Credit Hours:		22

## Graduation Requirements

Minimum Minor GPA	Minimum Overall GPA
2.000	2.000

- Students must complete at least two upper-division (30000 or 40000 level) courses in the minor at Kent State on a graded basis (A-F).
- Minimum 6 credit hours in the minor must be upper-division coursework (30000 and 40000 level).
- Minimum 6 credit hours in the minor must be outside of the course requirements for any major or other minor the student is pursuing.
- Minimum 50 percent of the total credit hours for the minor must be taken at Kent State (in residence).

## Physics - Ph.D.

### College of Arts and Sciences

Department of Physics  
103 Smith Hall  
Kent Campus  
330-672-2246  
physics-web@kent.edu  
www.kent.edu/physics

## Description

The Ph.D. degree in Physics provides training of professionals to conduct independently conceived programs of research or teaching in universities or research laboratories. Original research is required in fundamental or applied areas of physics, and the Ph.D. dissertation must be orally defended. Two years of graduate coursework, plus four years of research are typical.

### Fully Offered At:

- Kent Campus

## Admission Requirements

- Bachelor's degree or higher from an accredited college or university for unconditional admission
- Minimum 3.000 GPA on a 4.000 point scale for unconditional admission
- Official transcript(s)
- GRE (general) scores<sup>1</sup>
- Résumé or vita
- Goal statement
- Three letters of recommendation
- English language proficiency - all international students must provide proof of English language proficiency (unless they meet specific exceptions) by earning one of the following:
  - Minimum 550 TOEFL PBT score (paper-based version)
  - Minimum 79 TOEFL IBT score (Internet-based version)
  - Minimum 77 MELAB score
  - Minimum 6.5 IELTS score
  - Minimum 58 PTE score
  - Minimum 110 Duolingo English Test score

For more information about graduate admissions, please visit the Graduate Studies admission website. For more information on international admission, visit the Office of Global Education's admission website.

<sup>1</sup> A physics subject GRE score is highly recommended to ensure an application for the Ph.D. degree is competitive.

## Program Learning Outcomes

Graduates of these programs will be able to:

1. Demonstrate cognitive skills important to a physicist, including the following:

- a. Think critically and analytically;
  - b. Define and solve problems in physics; and
  - c. Perform research in contemporary areas of physics research at the highest level and with a great deal of independence.
2. Demonstrate a core knowledge and understanding of the foundations of physics.
  3. Communicate results of their work to peers, to various target groups within the physics community and to people outside the discipline.

## Program Requirements

### Major Requirements

Code	Title	Credit Hours
<b>Major Requirements<sup>1</sup></b>		
PHY 75204	CLASSICAL ELECTRODYNAMICS II	3
PHY 75301	STATISTICAL MECHANICS I	4
PHY 76162	QUANTUM MECHANICS II	3
PHY 76163	QUANTUM MECHANICS III	3
PHY 76201	PARTICLE PHYSICS	3
PHY 76303	APPLICATIONS OF QUANTUM CHROMODYNAMICS	3
or PHY 76403	ADVANCED CONDENSED MATTER PHYSICS	
or PHY 78401	LIQUID CRYSTAL PHYSICS	
PHY 76401	SOLID STATE PHYSICS I	3
PHY 80199	DISSERTATION I <sup>2</sup>	30
Additional Program Requirements <sup>3</sup>		8-38
<b>Minimum Total Credit Hours for Post-Baccalaureate Students</b>		<b>90</b>
<b>Minimum Total Credit Hours for Post-Master's Students</b>		<b>60</b>

<sup>1</sup> Students may petition to substitute a specific course if a minimum B grade was earned for a course at another school that is judged to be equivalent. The required physics courses will prepare the student for the candidacy examination.

<sup>2</sup> Upon admission to candidacy, each student must register for PHY 80199 for a total of 30 credit hours. Thereafter, students should register for PHY 80299 continuously each term until all degree requirements have been met. The dissertation must present and interpret original research. Topics available for dissertation research are primarily in the areas of condensed matter physics, material science, biophysics, theoretical astrophysics and high-energy nuclear physics. Students present at least one seminar based on their dissertation research during their graduate career.

<sup>3</sup> Additional program requirements are selected in consultation with the student's faculty advisor and approved by the department.

## Department of Political Science

### College of Arts and Sciences

Department of Political Science  
302 Bowman Hall  
Kent Campus  
330-672-2060  
polisci@kent.edu  
www.kent.edu/polisci

## Undergraduate Programs

- International Relations - B.A.
- Political Science - B.A.

## Special Programs (non-degree)

- Columbus Program in Intergovernmental Issues
- Washington Program in National Issues

## Minors

- Political Science

## Graduate Programs

- Political Science - M.A.
- Political Science - Ph.D.
- Public Administration - M.P.A.

## Graduate Certificates

- Nonprofit Management

## Department of Political Science Faculty

- Banks, Christopher P. (2006), Professor, Ph.D., University of Virginia, 1995
- Barnes, Andrew S. (2001), Associate Professor, Ph.D., Princeton University, 1999
- Bhungalia, Lisa (2017), Assistant Professor, Ph.D., Syracuse University, 2013
- Boyd-Swan, Casey (2015), Assistant Professor, Ph.D., Arizona State University, 2015
- Carbonell, Joel R. (2007), Associate Professor, Ph.D., University of California, Riverside, 2007
- Cassell, Mark K. (1998), Professor, Ph.D., University of Wisconsin, Madison, 1998
- Chand, Daniel E. (2016), Associate Professor
- Claassen, Ryan L. (2005), Professor, Ph.D., University of California-Davis, 2005
- Ensley, Michael J. (2009), Associate Professor, Ph.D., Duke University, 2002
- Hawes, Daniel P. (2008), Associate Professor, Ph.D., Texas A&M University, Main Campus, 2008
- Mazzei, Julie M. (2004), Associate Professor, Ph.D., American University, 2006
- Molina, Anthony D. (2013), Associate Professor & Interim Chair, Ph.D., Cleveland State University, 2004
- Nickels, Ashley E. (2016), Assistant Professor
- Paar-Jakli, Gabriella (1991), Assistant Professor, Ph.D., Kent State University, 2010
- Robyn, Richard C. (1994), Associate Professor, Ph.D., Kent State University, 2000
- Stacher, Joshua A. (2008), Associate Professor
- Sykes, Vernon L. (2001), Associate Professor, Ph.D., University of Akron, 2001

## Political Science (POL)

**POL 10001 INTRODUCTION TO POLITICAL SCIENCE 3 Credit Hours**  
Introduction to the history and structure of political science, including its relationship to neighboring disciplines. Course asks what does it mean to study politics? What does it mean to study politics scientifically? What are the consequences of different conceptions of politics?

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**POL 10004 COMPARATIVE POLITICS (DIVG) (KSS) 3 Credit Hours**  
Introduces the different institutional structures of governance (e.g., parliamentary versus presidential systems) in a range of different states for different types of regimes (e.g. democratic and authoritarian) and at the international level.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Diversity Global, Kent Core Social Sciences, TAG Social and Behavioral Sciences, Transfer Module Social Sciences

**POL 10100 AMERICAN POLITICS (DIVD) (KSS) 3 Credit Hours**  
Covers the basic elements of politics at the national level in the United States, including structures, processes, behaviors, institutions, policies. Special emphasis is given to conflicting theories of power as they apply to different economic, sexual and racial groups.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Diversity Domestic, Kent Core Social Sciences, TAG Social and Behavioral Sciences, Transfer Module Social Sciences

**POL 10300 PUBLIC POLICY 3 Credit Hours**

Course provides a survey of basic public policy concepts and processes within an historical context. Course incorporates applied work to bridge conceptual understanding and empirical cases.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**POL 10500 WORLD POLITICS (DIVG) (KSS) 3 Credit Hours**

A practical, theoretical introduction to a study of systematic patterns in international relations. Includes analysis of rules, instruments, processes, decision-making factors, conflict resolution.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Diversity Global, Kent Core Social Sciences, TAG Social and Behavioral Sciences, Transfer Module Social Sciences

**POL 10504 THE NEW PANGAEA: YOUR ROLE IN OUR GLOBAL COMMUNITY 3 Credit Hours**

Introduces students to the myriad ways in which they are individually and collectively connected to the global community. Looking specifically at ways in which people are interconnected as consumers, patients, donors and participants in discourse, the course introduces students to the concepts, institutions and dynamics of globalization. Through assignments that focus on important global issues and engage students directly with the global community, students will (a) learn how to engage the global community as informed consumers of information, (b) understand the basic structure of the global political arena, (c) learn how to engage actively and consciously within that arena and (d) understand the ways in which their daily behavior impacts global trends.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**POL 30000 MAY 4 1970 AND ITS AFTERMATH 3 Credit Hours**

(Cross-listed with PACS 30000) Study of the events of the 1960s in the United States leading up to May 4, 1970, when the Ohio National Guard killed and wounded Kent State University students protesting the war in Vietnam and Cambodia. Topics are considered within their cultural, historical, social and political contexts. Course also examines the aftermath of May 4, including the controversy over constructing the Gym Annex on the site of the shootings, the legal trials, the role of commemorations and memorials and the politics of remembering May 4, 1970.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**POL 30001 RESEARCH METHODS (ELR) 3 Credit Hours**

Course is designed to bring students to a basic level of 'statistical literacy' by introducing the fundamentals of research design and interpretation; as well as to basic descriptive and inferential statistics.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Experiential Learning Requirement

**POL 30002 POLITICAL THOUGHT 3 Credit Hours**

Courses introduces students to basic methodological and substantive concerns in the tradition of western political thought.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**POL 30003 POLITICAL ECONOMY 3 Credit Hours**

Introduction to the fundamental questions surrounding the relationship between the public and private sectors, considered from the perspective of the state and its major political institutions. Of central concern is the growing internationalization of capital and its consequences for both domestic and international politics.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**POL 30100 AMERICAN POLITICAL THEORY 3 Credit Hours**

Major political ideas and controversies associated with the development of American political thought. Nonmajors should contact the Department of Political Science for a prerequisite override.

**Prerequisite:** POL 10100.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**POL 30110 THE CONGRESS 3 Credit Hours**

Course covers the powers of Congress, its organization, leadership of the two houses, role of the parties, relationships with the chief executive and the executive agencies, as well as recent reforms enacted by the House and Senate.

**Prerequisite:** POL 10100.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**POL 30120 PRESIDENCY AND EXECUTIVE BUREAUCRACY 3 Credit Hours**

Intensive study of the American presidency, focusing on personality, organization of the office, use and misuse of power and policy making.

**Prerequisite:** POL 10100.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**POL 30130 THE JUDICIAL PROCESS 3 Credit Hours**

Intensive study of the judicial process in United States and the relationship between the judicial system and the larger American social system. Nonmajors should contact the Department of Political Science for a prerequisite override.

**Prerequisite:** POL 10100.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**POL 30300 PUBLIC POLICY THEORY 3 Credit Hours**

The core issues of public policy process, institutional contexts and ethical considerations form the basis of this introductory survey of traditional and contemporary theories of public policy.

**Prerequisite:** POL 10300.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**POL 30301 INTRODUCTION TO PUBLIC ADMINISTRATION 3 Credit Hours**

Introduction to the theory and practice of governmental administration, including structure, organization, direction and control of governmental departments and agencies.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**POL 30310 PUBLIC POLICY ANALYSIS 3 Credit Hours**

Introduces students to the political and economic tools used to analyze public policies and discusses the political elements influencing that analysis. Essentially, the goal is to ensure that students understand the basic economic principles used to evaluate different public policy proposals while questioning the assumptions underlying those economic assumptions.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**POL 30350 ENVIRONMENTAL CONFLICT RESOLUTION 3 Credit Hours**

(Cross-listed with PACS 35050) Examines alternative dispute resolution principles applicable to complex, multi-party public sector disputes, especially environmental and land use disputes. Students learn about deliberative democracy, a variety of circle processes, consensus decision-making, collaborative problem-solving, digital dialogue processes and town hall meeting structures, among others. Case studies of environmental conflicts and multi-party mediation simulations are used.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**POL 30430 OHIO POLITICS 3 Credit Hours**

Addresses the history, structure, and current practices of politics and public policy in Ohio.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**POL 30450 URBAN POLITICS AND POLICY 3 Credit Hours**

Discusses local governance in the context of metropolitan change, and covers issues such as governing capacity, local democracy, individual choice and economic and racial inequality. Examines the formal and informal arrangements that shape change and public policy. Nonmajors should contact the Department of Political Science for a prerequisite override.

**Prerequisite:** POL 10100 or POL 10300.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**POL 30460 STATE POLITICS AND POLICY 3 Credit Hours**

Introduces the theoretical and legal infrastructures of federalism and intergovernmental relations, with a particular emphasis on political and policy operations at the state level. Political behavior and institutions, as well as the specifics of selected, substantive policy areas are emphasized.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**POL 30500 INTERNATIONAL RELATIONS THEORY 3 Credit Hours**

Course introduces competing theoretical approaches to the study of international relations; an examination of the historical developments followed by an examination of current issues in world politics.

**Prerequisite:** POL 10500.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**POL 30511 PROBLEMS OF INTERNATIONAL ORGANIZATION 3 Credit Hours**

Intensive study of major European problems handled by international organizations, including the United Nations and nongovernmental organizations. Combines classroom and field investigations. Registration in the Geneva semester required.

**Prerequisite:** Special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**POL 30520 EUROPEAN POLITICS (DIVG) 3 Credit Hours**

Examines major European national political systems (British, French, German, Russian and Scandinavian) relations between the European states, the institutions of the European Union and prospects and problems of European integration.

**Prerequisite:** POL 10004 or POL 10500.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Diversity Global

**POL 30530 ASIAN POLITICS (DIVG) 3 Credit Hours**

Introduction to the political, economic and social dynamics of Asia, from Siberia in the north to the Indian Ocean in the south, and from the Pacific Ocean in the east to the Hindu Kush in the west. The first part of the course examines Asia's modern political history (particularly the past half-century). The second part of the course focuses on contemporary issues, including the roles of the United States and sub-regional actors, such as the Association of Southeast Asian Nations (ASEAN).

**Prerequisite:** POL 10004 or POL 10500.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Diversity Global

**POL 30540 AFRICAN POLITICS (DIVG) 3 Credit Hours**

An analysis of major issues in African politics and international relations. The contemporary development of Africa will be analyzed in the global context of the historical forces of imperialism and colonialism.

**Prerequisite:** POL 10004 or POL 10500.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Diversity Global

**POL 30550 LATIN AMERICAN POLITICS (DIVG) 3 Credit Hours**

Analysis of political culture/process in selected Latin American states, with particular emphasis on Mexico, Brazil, Argentina and Columbia.

**Prerequisite:** POL 10004 or POL 10500.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Diversity Global



**POL 30560 MIDDLE EAST POLITICS (DIVG) 3 Credit Hours**

Introduces students to the theory and context of politics in the Middle East in a way that contests the often-simplistic stereotypes communicated through Western media and throughout Western culture, in order to encourage a more nuanced appreciation of the Middle East. Theoretical approaches utilized include modernization, dependency, structuralism and constructivism.

**Prerequisite:** POL 10004 or POL 10500.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Diversity Global

**POL 30570 PALESTINE AND ISRAEL 3 Credit Hours**

Course introduces students to academic approaches and theories that attempt to understand the situation in historic Palestine. The course is divided into four sections: (1) Theories of settler colonialism and basic differences between Judaism, Zionism and Israeli society, as well as diversity within Palestinian society. (2) Comparative studies of the establishment of the modern state of Israel, which Palestinians view in their collective experience as "the Catastrophe" or al-Nakba. (3) The occupation of East Jerusalem, the West Bank and Gaza, and how that system has changed over time. (4) Pathways forward for Palestinians and Israelis.

**Prerequisite:** Sophomore standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**POL 30810 POLITICS OF THE GLOBAL ECONOMY 3 Credit Hours**

Examines interaction between economics and politics in international relations. Topics include poverty and uneven economic development, political prerequisites for free trade, intra-western and north-south economic conflict and distributive justice.

**Prerequisite:** POL 10004 or POL 10500.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**POL 30820 INTERNATIONAL ORGANIZATION AND LAW 3 Credit Hours**

Course introduces the subject matter in historical and theoretical contexts, then devotes detailed attention to the full range of international organizations that exist today. A final section addresses the role of international law in world politics.

**Prerequisite:** POL 10004 or POL 10500.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**POL 30840 NONGOVERNMENTAL ORGANIZATIONS 3 Credit Hours**

Introduction to the diverse range of nongovernmental organizations that exist today. Course explores the varying roles on nongovernmental organizations in setting agendas, shaping legislation and implementing public policy reforms.

**Prerequisite:** POL 10004 or POL 10300 or POL 10500.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**POL 39592 GENEVA INTERNSHIP (ELR) 3 Credit Hours**

(Repeatable for credit) Students perform intern duties as part of the semester in Geneva.

**Prerequisite:** None.

**Schedule Type:** Practical Experience

**Contact Hours:** 21 other

**Grade Mode:** Standard Letter

**Attributes:** Experiential Learning Requirement

**POL 40091 VARIABLE TOPIC SEMINAR 3 Credit Hours**

(Slashed with POL 50091 and POL 70091) Variable topic seminar in political science.

**Prerequisite:** POL 10004 or POL 10500; and POL 10100 or POL 10300; and POL 30001; and sophomore standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**POL 40112 POLITICS AND THE MASS MEDIA 3 Credit Hours**

Course examines the multiple roles played by the mass media in contemporary politics and analyzes the implications of those roles. Nonmajors should contact the Department of Political Science for a prerequisite override.

**Prerequisite:** POL 10100.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**POL 40116 PUBLIC OPINION AND POLITICAL BEHAVIOR 3 Credit Hours**

Analysis of determinants of public opinion and political behavior. Study of how public makes up its mind and impact of public opinion on government policy.

**Prerequisite:** POL 10100.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**POL 40118 POLITICAL PARTIES AND INTEREST GROUPS 3 Credit Hours**

An examination of the changing roles of political parties and interest groups in the American political system, including a comparison of their respective electoral activities.

**Prerequisite:** POL 10100.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**POL 40168 MOOT COURT I 2 Credit Hours**

Prepares students for oral advocacy in a simulated court room experience known as moot court. Preparation includes learning pre-trial and trial processes, including case evaluation, legal investigation, discovery and motion practice and trial processes.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**POL 40171 MOOT COURT II 1 Credit Hour**

Prepares students to engage in oral advocacy by using a learning experiential exercise, including a regional competition hosted by the American Collegiate Mock Trial Association, known as moot court. Students perform relevant roles (including case evaluation and strategy, legal investigation, discovery and motion practice, and trial preparation) both in the competition and in preparing a hypothetical case for trial.

**Prerequisite:** POL 40168.

**Schedule Type:** Lecture

**Contact Hours:** 1 lecture

**Grade Mode:** Standard Letter

**POL 40182 CONSTITUTIONAL LAW: GOVERNMENTAL STRUCTURES AND FUNCTIONS 3 Credit Hours**

Nature and scope of constitutional government. Study of judicial review, separation of powers, federalism, commerce and taxation.

**Prerequisite:** POL 10100.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**POL 40183 CONSTITUTIONAL LAW: CIVIL RIGHTS AND LIBERTIES (DIVD) 3 Credit Hours**

Nature and scope of constitutional limitations. Study of first amendment, freedom of expression, freedom of religion, criminal rights, due process, equal protection.

**Prerequisite:** POL 10100.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Diversity Domestic

**POL 40191 SEMINAR IN AMERICAN POLITICS (WIC) 3 Credit Hours**

(Repeatable for credit) A required, writing-intensive seminar for juniors and seniors in the American Politics concentration. The focus of the seminar varies depending on content and instructor.

**Prerequisite:** POL 10004 or 10500; and POL 10100 or 10300; and POL 30001 and POL 30002 (or POL 30003); and political science major.

**Schedule Type:** Seminar

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**Attributes:** Writing Intensive Course

**POL 40320 ETHICS AND PUBLIC POLICY 3 Credit Hours**

The ethical obligations of public policy makers are examined in this course, within a series of applied cases. The goal is to empower students with the intellectual tools of critical analysis within diverse policy environments.

**Prerequisite:** POL 10300.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**POL 40391 SEMINAR IN PUBLIC POLICY (WIC) 3 Credit Hours**

(Repeatable for credit) A required, writing intensive seminar for juniors and seniors in the Public Policy concentration. The focus of the seminar varies depending on content and instructor.

**Prerequisite:** POL 10004 or POL 10500; and POL 10100 or 10300; and POL 30001 and POL 30002 (or POL 30003); and political science major.

**Schedule Type:** Seminar

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**Attributes:** Writing Intensive Course

**POL 40410 REGULATORY POLICY 3 Credit Hours**

Provides an advanced understanding of the nature of government regulation: its definition; the institutions and groups involved in developing it; and current practices. The focus is on analyzing why regulation exists and how regulatory agencies function.

**Prerequisite:** POL 10100 or POL 10300.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**POL 40440 U.S. ENVIRONMENTAL POLITICS AND POLICIES 3 Credit Hours**

Course covers such topics as the history of the U.S. environmental movement; public opinion and environmental issues; environmental racism and classism; and environmental policy making and implementation.

**Prerequisite:** POL 10100 or POL 10300.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**POL 40450 HEALTH CARE AND SOCIAL POLICY 3 Credit Hours**

Addresses health care policy in the United States from both theoretical (political, economic as well as public policy) and substantive perspectives at the state, national and comparative-international levels. Further, the examination of health care policy takes place in the context of social welfare policy more broadly considered.

**Prerequisite:** POL 10100 or POL 10300.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**POL 40470 WOMEN, POLITICS AND POLICY (DIVD) 3 Credit Hours**

Examines origins, development and current record of century-old women's movement unique in U.S. annals; compares it with other contemporary social movements. Examines issues of women and public policy.

**Prerequisite:** POL 10100 or POL 10300.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Diversity Domestic

**POL 40530 POLITICS OF WAR 3 Credit Hours**

Examines central questions concerning the justification, explanation characteristic features and consequences of war. Specific cases are examined such as World War II, the Chinese Revolution, Vietnam's civil war and potential nuclear war.

**Prerequisite:** POL 10004 or POL 10500.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**POL 40540 POLITICS OF DEVELOPMENT (DIVG) 3 Credit Hours**

Examines practice, record and theories of political development for less developed, developing and developed political systems. Includes extensive analysis of issues, problems through case studies.

**Prerequisite:** POL 10004 or POL 10500.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Diversity Global

**POL 40560 HUMAN RIGHTS AND SOCIAL JUSTICE (DIVG) 3 Credit Hours**

Examines the relationship between human rights and problems of the Third World in the civic, political, social and cultural arenas. Particular attention is placed on the struggle of women.

**Prerequisite:** POL 10004 or POL 10500.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Diversity Global

**POL 40591 SEMINAR IN INTERNATIONAL RELATIONS-COMPARATIVE POLITICS (WIC) 3 Credit Hours**

(Repeatable for credit) A required, writing-intensive seminar for juniors or seniors in the International Relations-Comparative Politics concentration. The focus of the seminar varies depending on content and instructor.

International Relations majors who have completed POL 10004, POL 10500 and 6 credit hours of courses in the International Relations-Comparative Politics concentration may request a prerequisite override from the Department of Political Science.

**Prerequisite:** POL 10004 or POL 10500; and POL 10100 or POL 10300; and POL 30002 or POL 30003; and political science major.

**Schedule Type:** Seminar

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**Attributes:** Writing Intensive Course

**POL 40620 POLITICS OF SOCIAL MOVEMENTS (DIVD) 3 Credit Hours**

Examines the role of social movements both in the United States and around the world. Focuses on labor, environmental, social justice and other initiatives in the push for political and economic democracy. North-South, public-private, labor-management and regional perspectives are emphasized.

**Prerequisite:** POL 10004 or POL 10100 or POL 10500.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Diversity Domestic

**POL 40840 COMPARATIVE FOREIGN POLICY 3 Credit Hours**

Comparative analysis of foreign policy patterns and determinants on the basis of the examination of foreign policy of selected countries.

**Prerequisite:** POL 10004 or POL 10300 or POL 10500.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**POL 40930 U.S. FOREIGN POLICY 3 Credit Hours**

Examines policy objectives, patterns of decision-making and foreign policy actions, roles of interest groups, public opinion, congress, executive and external influences on policy.

**Prerequisite:** POL 10004 or POL 10100 or POL 10500.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**POL 40980 COLUMBUS PROGRAM IN STATE ISSUES (ELR) 15 Credit Hours**

(Repeatable for credit) Annual fall semester resident-study in Columbus. Students spend three days per week working at an internship and two days per week attending briefings and completing course studies.

**Prerequisite:** Minimum 2.500 overall GPA; and special approval.

**Schedule Type:** Lecture, Practical Experience, Seminar

**Contact Hours:** 7 lecture, 24 other

**Grade Mode:** Standard Letter

**Attributes:** Experiential Learning Requirement

**POL 40981 WASHINGTON PROGRAM IN NATIONAL ISSUES (ELR) 15 Credit Hours**

(Repeatable for credit) Annual spring semester resident-study in Washington, D.C. Credit hours divided among three units: lecture and course work, on-site briefings seminar and internship.

**Prerequisite:** Minimum 2.750 overall GPA; and junior standing; and special approval.

**Schedule Type:** Lecture, Practical Experience, Seminar

**Contact Hours:** 7 lecture, 24 other

**Grade Mode:** Standard Letter

**Attributes:** Experiential Learning Requirement

**POL 40992 INTERNSHIP (ELR) 1-3 Credit Hours**

(Repeatable for maximum 6 credit hours) Allows academic credit for approved participation in variety of political processes, or as an intern with governmental or private agencies dealing with public affairs.

**Prerequisite:** Minimum 2.000 overall GPA; and special approval.

**Schedule Type:** Field Experience

**Contact Hours:** 3-9 other

**Grade Mode:** Satisfactory/Unsatisfactory

**Attributes:** Experiential Learning Requirement

**POL 40993 VARIABLE TITLE WORKSHOP IN POLITICAL SCIENCE 1-6 Credit Hours**

(Repeatable for credit) Workshop topic varies per course offering.

**Prerequisite:** None.

**Schedule Type:** Workshop

**Contact Hours:** 1-6 other

**Grade Mode:** Satisfactory/Unsatisfactory

**POL 40995 SELECTED TOPICS IN POLITICAL SCIENCE 1-3 Credit Hours**

(Repeatable for credit) Special course, not regularly offered. Subject varies depending on the emerging issue, staff availability and competencies.

**Prerequisite:** Junior or senior standing.

**Schedule Type:** Lecture

**Contact Hours:** 1-3 lecture

**Grade Mode:** Standard Letter

**POL 40996 INDEPENDENT STUDY 1-3 Credit Hours**

(Repeatable for credit) For students desiring research into subjects beyond level of completed course work, or on subjects for which no regular course is offered.

**Prerequisite:** Any two of the following courses: POL 10004, POL 10100, POL 10300, and POL 10500; minimum 2.750 overall GPA; and junior standing; and special approval.

**Schedule Type:** Individual Investigation

**Contact Hours:** 1-3 other

**Grade Mode:** Standard Letter-IP

**POL 50091 VARIABLE TOPIC SEMINAR 3 Credit Hours**

(Slashed with POL 40091 and POL 70091) Variable topic seminar in political science.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**POL 51191 SEMINAR: PROBLEMS IN AMERICAN GOVERNMENT 3 Credit Hours**

(Repeatable for credit) For graduate students outside of political science who wish to take an undergraduate American government course for graduate credit. Students must meet all of the requirements of the 40000-level course and complete additional work as agreed upon by the instructor. May be taken more than once but never for more than 3 credit hours in any one semester. Instructor and course content may vary from semester to semester.

**Prerequisite:** Graduate standing.

**Schedule Type:** Seminar

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter-IP

**POL 51391 SEMINAR: PROBLEMS IN PUBLIC POLICY 3 Credit Hours**

(Repeatable for credit) For graduate students outside of political science who wish to take an undergraduate public policy course for graduate credit. Students must meet all of the requirements of the 40000-level course and complete additional work as agreed upon by the instructor. May be taken more than once but never for more than 3 credit hours in any one semester. Instructor and course content may vary from semester to semester.

**Prerequisite:** Graduate standing.

**Schedule Type:** Seminar

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter-IP

**POL 51591 SEMINAR: PROBLEMS IN INTERNATIONAL RELATIONS/ COMPARATIVE GOVERNMENT 3 Credit Hours**

(Repeatable for credit) For graduate students outside of political science who wish to take an undergraduate international/comparative government course for graduate credit. Students must meet all of the requirements of the 40000-level course and complete additional work as agreed upon by the instructor. May be taken more than once but never for more than 3 credit hours in any one semester. Instructor and course content may vary from semester to semester.

**Prerequisite:** Graduate standing.

**Schedule Type:** Seminar

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter-IP

**POL 60002 SCOPE AND EPISTEMOLOGY 3 Credit Hours**

(Slashed with POL 70002) Introduces students to the philosophy of science and scientific inquiry within the context of the social sciences. Course presents a broad survey of leading paradigms and debates within political science.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**POL 60003 QUANTITATIVE METHODS I 3 Credit Hours**

(Slashed with POL 70003) Provides a selective introduction to basic quantitative methods for the analysis of political and public policy data dealing with basic descriptive and inferential statistics.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**POL 60004 QUANTITATIVE METHODS II 3 Credit Hours**

(Slashed with POL 70004) Introduces students to multivariate quantitative techniques appropriate for the analysis of political and public policy data.

**Prerequisite:** POL 60003; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**POL 60010 QUALITATIVE RESEARCH METHODS 3 Credit Hours**

(Slashed with POL 70010) Introduces the principles and methods of qualitative research, examining the place of qualitative research alongside discussions about positivist, interpretivist and critical approaches. A variety of qualitative research methods are introduced including social observation and ethnography, interviewing, discourse analysis, oral history, document analysis, historical analysis and case studies.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**POL 60099 CAPSTONE SEMINAR 3 Credit Hours**

Directed research to use completed coursework to identify ways in which scholarship speaks to application, e.g., in the non-profit, policy, consulting or programming world.

**Prerequisite:** Graduate standing.

**Schedule Type:** Master's Project, Research

**Contact Hours:** 3 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**POL 60101 STATUS OF THE FIELD: AMERICAN POLITICS AND POLICY 3 Credit Hours**

(Slashed with POL 70101) Course provides a broad survey of the policy-making process in the U.S. government. Coverage includes formal government structures, as well as more informal networks of private groups that seek to influence public policy at the national level.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**POL 60102 AMERICAN POLICY PROCESS 3 Credit Hours**

(Slashed with POL 70102) Course emphasizes the politics of the policy process. Among topics covered are theories of policy formulation implementation and evaluation.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**POL 60103 CONGRESS, THE PRESIDENCY AND THE COURTS 3 Credit Hours**

(Slashed with POL 70103) Focuses on the three branches of the U.S. government, specifically Congress, the presidency and the judiciary. Coverage includes institutional rules and procedures that shape the incentives of these political actors and ultimately policy outcomes.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**POL 60105 FEDERALISM AND STATE POLICYMAKING 3 Credit Hours**

(Slashed with POL 70105) Course covers the theory and practice of federalism, with emphasis on its consequences for policy outcomes. Students also examine the transformation of the policy role of state governments in recent years.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**POL 60106 URBAN POLICY AND POLITICS 3 Credit Hours**

(Slashed with POL 70106) Urban public policy takes place within the context of suburbanization and metropolitan sprawl. Issues raised in this course include poverty, race and the role of business in local policymaking.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**POL 60108 AMERICAN POLITICAL BEHAVIOR 3 Credit Hours**

(Slashed with POL 70108) Explores scholarship on the behavior of non-elite political actors, including various forms of electoral participation, voting, psychological attachment, affect, cognition, perception, attitude and belief. Additional topics include ethnic, racial and gender politics; political participation; voting choice; political psychology; politics and networks; macro politics; and connecting individual-level and macro-level findings with democratic outcomes and citizen capacity.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**POL 60191 SEMINAR IN AMERICAN POLITICS AND POLICY 3 Credit Hours**

(Repeatable for credit)(Slashed with POL 70191) Seminar on current and important topics in American politics and policy. Subject matter varies depending on the emerging issue. Course may be repeated for credit toward a degree with departmental approval.

**Prerequisite:** Graduate standing.

**Schedule Type:** Seminar

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**POL 60304 ANALYTIC TECHNIQUES OF POLICY-MAKING 3 Credit Hours**

(Slashed with POL 70304) Course covers the concepts, techniques and conventions for assessing economic efficiency when this is one of the social and political goals relevant to public policymakers. Students are introduced to theories of cost-benefit analysis as they pertain to public policy.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**POL 60501 STATUS OF THE FIELD: TRANSNATIONAL AND COMPARATIVE POLITICS AND POLICY 3 Credit Hours**

(Slashed with POL 70501) Course introduces students to the primary concepts, theories and subfields of comparative and transnational politics. Each field of study is reviewed along with the primary subfields of analysis.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**POL 60502 GLOBAL GOVERNANCE 3 Credit Hours**

(Slashed with POL 70502) Course examines issues, problems and debates regarding global governance in the contemporary world. Of primary interest is the array of actors in this process, including nation-states, intergovernmental organizations and nongovernmental organizations.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**POL 60503 FOREIGN POLICY ANALYSIS 3 Credit Hours**

(Slashed with POL 70503) Course provides an overview of the diverse analytic traditions and issues that relate to the study of foreign policy. Areas of coverage include theories of foreign policy decision-making, levels of analysis and policy domains.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**POL 60507 CONFLICT TRANSFORMATION AND RECONCILIATION 3 Credit Hours**

(Slashed with POL 70507) Cross-cultural analysis of transition, from mass violence to justice and from protracted conflict to democracy. Subjects of study include truth and reconciliation commissions, criminal tribunal's apologies reparations and other aids to conflict transformation.

**Prerequisite:** POL 60501; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**POL 60510 POLITICS OF DEVELOPMENT 3 Credit Hours**

(Slashed with POL 70510) Course surveys the scholarship on political development, examining the ways in which the conceptualization of development has evolved over time, looking specifically at institutionalization, state failure and the role of civil society.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter



**POL 60511 INTERNATIONAL POLITICAL ECONOMY 3 Credit Hours**  
(Slashed with POL 70511) Introduces students to the study of how politics and economics interact on a global scale, covering the major theories of the international political economy, the international monetary system, global trade, and the connections between international economics and domestic development.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**POL 60591 SEMINAR IN TRANSNATIONAL AND COMPARATIVE POLITICS AND POLICY 3 Credit Hours**

(Repeatable for credit)(Slashed with POL 70591) Seminar on current and important topics in transnational and comparative politics and policy. Subject matter varies depending on the emerging issue.

**Prerequisite:** Graduate standing.

**Schedule Type:** Seminar

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**POL 60901 PROSEMINAR IN CONFLICT ANALYSIS AND MANAGEMENT 3 Credit Hours**

(Slashed with POL 70901) Covers the historical development of the conflict analysis and management field; conflict theories; the dynamics by which conflicts escalate, stalemate and de-escalate; and theories of conflict intervention, resolution and transformation.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**POL 60902 POWER, CONFLICT AND THE POLITICS OF GENDER 3 Credit Hours**

(Slashed with POL 70902) Examines power disparities and gender as sources of conflict in multiple arenas—including family, community, workplace and the political sphere. The intersections of gender and power in the generation and resolution of social conflicts are examined. Emphasis is placed on empowerment strategies and tactics used to transform gendered conflicts and redress power imbalances.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**POL 60903 IDENTITY DRIVEN CONFLICTS 3 Credit Hours**

(Slashed with POL 70903) Explores the roles played by ethnicity, race, religion, culture and other elements of identity in the generation, resolution and conduct of conflicts within and between groups. Physical and symbolic markers of difference are examined in order to understand both why groups differentiate themselves from one another and how mechanisms such as skin color, religious affiliation, ethnic background or cultural traditions can provide the impetus for conflict or the grounds for resolution.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**POL 60904 SOCIAL MOVEMENTS AND NONVIOLENT CONFLICTS 3 Credit Hours**

(Slashed with POL 70904) The waging and escalating of conflicts by social movements through nonviolent actions frequently shifts conflicts from one stage to another while also contributing to conflict transformation and to substantive social and political changes. Course focuses on social movement theories and practices, and on the complicated dynamics of nonviolent action campaigns waged by social movements.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**POL 60906 POLITICAL VIOLENCE 3 Credit Hours**

(Slashed with POL 70906) Examines the dynamics, networks, interests and resource mobilization underlying state-sponsored political violence, focusing on "low-intensity conflict" and counter-insurgency, paramilitarism and genocide. Of special interest is the relationship of the state to various non-state actors, both perpetrators and victims, and the role of the international community in domestic-level violence.

**Prerequisite:** POL 60501 or POL 60901; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**POL 60907 TERRORISM AND HUMAN RIGHTS 3 Credit Hours**

(Slashed with POL 70907) Examines how governments try to adhere to the rule of law in managing terrorist threats in a post 9-11 era, striking a balance between the competing demands of public safety, personal freedom and human rights. Topics include understanding terrorism as a problem for western governments, the rule of law and human rights.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**POL 60991 SEMINAR IN CONFLICT ANALYSIS AND MANAGEMENT 3 Credit Hours**

(Repeatable for maximum 9 credit hours)(Slashed with POL 70991) Seminar on current and important topics in conflict analysis and management. Course may be repeated for credit toward a degree with departmental approval.

**Prerequisite:** Graduate standing.

**Schedule Type:** Seminar

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**POL 61094 COLLEGE TEACHING IN POLITICAL SCIENCE 1 Credit Hour**

(Repeatable for credit)(Slashed with POL 71094) Staff training and experience in college teaching; colloquia on professional ethics and responsibilities of political scientists. Maximum 4 credit hours applicable toward a degree with graduate studies committee approval.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 1 lecture

**Grade Mode:** Standard Letter

**POL 61098 RESEARCH 1-15 Credit Hours**

(Repeatable for credit) Research or individual investigation. Credit hours may be applied toward meeting degree requirements with department approval and when a letter grade is given.

**Prerequisite:** Graduate standing.

**Schedule Type:** Research

**Contact Hours:** 1-15 other

**Grade Mode:** Standard Letter-IP

**POL 61199 THESIS I 2-6 Credit Hours**

Thesis students must register for a total of 6 hours, 2 to 6 hours in a single semester distributed over several semesters if desired.

**Prerequisite:** Graduate standing.

**Schedule Type:** Masters Thesis

**Contact Hours:** 2-6 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**POL 61299 THESIS II 2 Credit Hours**

Thesis students must continue registration each semester until all degree requirements are met.

**Prerequisite:** POL 61199; and graduate standing.

**Schedule Type:** Masters Thesis

**Contact Hours:** 2 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**POL 69091 SEMINAR IN QUANTITATIVE METHODS 3 Credit Hours**

(Repeatable for maximum 9 credit hours)(Slashed with POL 79091)

Focuses on select topics in quantitative methods, including limited and categorical dependent variables, hierarchical linear models, panel data, structural equation modeling and Q Methodology. More than one seminar may be offered.

**Prerequisite:** POL 60004; and graduate standing.

**Schedule Type:** Seminar

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**POL 69095 SPECIAL TOPICS IN POLITICAL SCIENCE AND PUBLIC POLICY 3 Credit Hours**

(Repeatable for a maximum of 12 credit hours)(Slashed with POL 79095)  
Topic varies per course offering.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**POL 70002 SCOPE AND EPISTEMOLOGY 3 Credit Hours**

(Slashed with POL 60002) Introduces students to the philosophy of science and scientific inquiry within the context of the social sciences. Course presents a broad survey of leading paradigms and debates within political science.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**POL 70003 QUANTITATIVE METHODS I 3 Credit Hours**

(Slashed with POL 60003) Provides a selective introduction to basic quantitative methods for the analysis of political and public policy data dealing with basic descriptive and inferential statistics.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**POL 70004 QUANTITATIVE METHODS II 3 Credit Hours**

(Slashed with POL 60004) Introduces students to multivariate quantitative techniques appropriate for the analysis of political and public policy data.

**Prerequisite:** POL 70003; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**POL 70010 QUALITATIVE RESEARCH METHODS 3 Credit Hours**

(Slashed with POL 60010) Introduces the principles and methods of qualitative research, examining the place of qualitative research alongside discussions about positivist, interpretivist and critical approaches. A variety of qualitative research methods are introduced including social observation and ethnography, interviewing, discourse analysis, oral history, document analysis, historical analysis and case studies.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**POL 70091 VARIABLE TOPIC SEMINAR 3 Credit Hours**

(Slashed with POL 40091 and 50091) Variable topic seminar in political science.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**POL 70101 STATUS OF THE FIELD: AMERICAN POLITICS AND POLICY 3 Credit Hours**

(Slashed with POL 60101) Course provides a broad survey of the policy-making process in the U.S. government. Coverage includes formal government structures, as well as more informal networks of private groups that seek to influence public policy at the national level.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**POL 70102 AMERICAN POLICY PROCESS 3 Credit Hours**

(Slashed with POL 60102) Course emphasizes the politics of the policy process. Among topics covered are theories of policy formulation implementation and evaluation.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**POL 70103 CONGRESS, THE PRESIDENCY AND THE COURTS 3 Credit Hours**

(Slashed with POL 60103) Focuses on the three branches of the U.S. government, specifically Congress, the presidency and the judiciary. Coverage includes institutional rules and procedures that shape the incentives of these political actors and ultimately policy outcomes.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**POL 70105 FEDERALISM AND STATE POLICYMAKING 3 Credit Hours**

(Slashed with POL 60105) Course covers the theory and practice of federalism, with emphasis on its consequences for policy outcomes. Students also examine the transformation of the policy role of state governments in recent years.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**POL 70106 URBAN POLICY AND POLITICS 3 Credit Hours**

(Slashed with POL 60106) Urban public policy takes place within the context of suburbanization and metropolitan sprawl. Issues raised in this course include poverty, race and the role of business in local policymaking.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**POL 70108 AMERICAN POLITICAL BEHAVIOR 3 Credit Hours**

(Slashed with POL 60108) Explores scholarship on the behavior of non-elite political actors, including various forms of electoral participation, voting, psychological attachment, affect, cognition, perception, attitude and belief. Additional topics include ethnic, racial and gender politics; political participation; voting choice; political psychology; politics and networks; macro politics; and connecting individual-level and macro-level findings with democratic outcomes and citizen capacity.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**POL 70191 SEMINAR IN AMERICAN POLITICS AND POLICY 3 Credit Hours**

(Repeatable for credit) (Slashed with POL 60191) Seminar on current and important topics in American politics and policy. Subject matter varies depending on the emerging issue. This course may be repeated for credit with departmental approval.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Seminar

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**POL 70195 SPECIAL TOPICS IN PUBLIC ADMINISTRATION 3 Credit Hours**

(Repeatable for maximum 12 credit hours)(Slashed with PADM 60195) Topic varies per course offerings.

**Prerequisite:** Doctoral standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**POL 70198 RESEARCH IN PUBLIC ADMINISTRATION 1-3 Credit Hours**

(Repeatable for credit) Research or individual investigation. Credits earned may be applied toward a degree with department approval.

**Prerequisite:** Political science major; and doctoral standing; and special approval.

**Schedule Type:** Research

**Contact Hours:** 1-3 other

**Grade Mode:** Standard Letter-IP

**POL 70304 ANALYTIC TECHNIQUES OF POLICY-MAKING 3 Credit Hours**

(Slashed with POL 60304) Course covers the concepts, techniques and conventions for assessing economic efficiency when this is one of the social and political goals relevant to public policymakers. Students are introduced to theories of cost-benefit analysis as they pertain to public policy.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**POL 70371 GRADUATE INTRODUCTION TO PUBLIC ADMINISTRATION 3 Credit Hours**

(Slashed with PADM 60371) Introductory course to the theory and study of public administration. Topics include evolution and characteristics of the modern nation state; core functions of public bureaucracy in any nation state; intergovernmental relations; formal and informal institutions and their role in policy; legal-regulatory processes; historical evolution of public administration as an academic field; and major paradigms in organization theory and internal organizational dynamics.

**Prerequisite:** Political science major; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**POL 70377 PUBLIC BUDGETING AND FINANCIAL MANAGEMENT 3 Credit Hours**

(Slashed with PADM 60377) Focuses on two aspects of public financial analysis: budgeting and financial management. The topics in budgeting are the basic purposes of budgets as mechanisms of resource control and allocation, and as legal documents; distinct budget formats and cross-walking of formats; budget preparation; legislative review; implementation and auditing. The topics in financial management are the mechanisms and tools for financing public operations, debt management, fund accounting, analyzing budgets and forecasting.

**Prerequisite:** Political Science major; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**POL 70379 PROGRAM EVALUATION I 3 Credit Hours**

(Slashed with PADM 60379) Introduction to evaluation of government programs. Emphasis on familiarizing students with the theory and specifically the techniques utilized under different evaluation formats.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**POL 70386 PUBLIC SECTOR INFORMATION TECHNOLOGY MANAGEMENT 3 Credit Hours**

(Slashed with PADM 60386) Management of information technology systems in the public sector. Specific focus on: planning and acquisition of hardware and software and networking technologies, organizational governance and implementation, information security and privacy, legal requirements, IT service delivery and emerging enterprise technologies.

**Prerequisite:** Political Science major; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**POL 70387 ELECTRONIC GOVERNANCE 3 Credit Hours**

(Slashed with PADM 60387) An introduction to electronic governance with an emphasis on public administration. Examines the implications of information and communication technology in public organizations with regard to democracy, civic engagement and performance improvement. Through case studies from the United States and across the world, students become familiar with the factors and issues surrounding the implementation of electronic governance on a comparative basis.

**Prerequisite:** Political Science major; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**POL 70392 INTERNSHIP IN PUBLIC ADMINISTRATION 3 Credit Hours**

(Repeatable for credit maximum three times) Provides an opportunity for students to gain practical experience and be exposed to processes of public decision making and policy development.

**Prerequisite:** Political Science major; and doctoral standing; and special approval.

**Schedule Type:** Practical Experience

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter-IP

**POL 70470 PERSONAL ACCOUNTABILITY IN THE PUBLIC SERVICE 3 Credit Hours**

(Slashed with PADM 60470) Focus is on students internalizing their role in the public service as stewards of the public trust. Topics covered include dimensions of stewardship: maintaining personal honor, protecting the liberty and dignity of the citizen, dimensions of justice, anti-corruption, incorporating principles of stewardship in their personal decision making and throughout the organization.

**Prerequisite:** Political Science major; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**POL 70471 NONPROFIT LAW 3 Credit Hours**

(Slashed with PADM 60471) Introduction to legal issues for nonprofit organizations in the United States, including types of IRS tax-exempt status, basic requirements for establishing and operating nonprofit organizations specifically in Ohio.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**POL 70472 NONPROFIT BOARD-EXECUTIVE RELATIONS 3 Credit Hours**

(Slashed with PADM 60472) Key aspects of effective nonprofit governance, major roles of nonprofit board members and their responsibilities and governance structures.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**POL 70475 CAPSTONE SEMINAR 3 Credit Hours**

(Repeatable for credit)(Slashed with PADM 60475) Students complete an approved, written project that is analytical and research-based.

**Prerequisite:** Political Science major; and doctoral standing; and special approval.

**Schedule Type:** Seminar

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter-IP

**POL 70477 NONPROFIT FINANCIAL RESOURCE DEVELOPMENT 3 Credit Hours**

(Slashed with PADM 60477) Successful strategies for fundraising and resource development for nonprofit organizations. Students are exposed to fundraising in practice and write a resource development plan.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**POL 70501 STATUS OF THE FIELD: TRANSNATIONAL AND COMPARATIVE POLITICS AND POLICY 3 Credit Hours**

(Slashed with POL 60501) Course introduces students to the primary concepts, theories and subfields of comparative and transnational politics. Each field of study is reviewed along with the primary subfields of analysis.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**POL 70502 GLOBAL GOVERNANCE 3 Credit Hours**

(Slashed with POL 60502) Course examines issues, problems and debates regarding global governance in the contemporary world. Of primary interest is the array of actors in this process, including nation-states, intergovernmental organizations and nongovernmental organizations.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**POL 70503 FOREIGN POLICY ANALYSIS 3 Credit Hours**

(Slashed with POL 60503) Course provides an overview of the diverse analytic traditions and issues that relate to the study of foreign policy. Areas of coverage include theories of foreign policy decision-making, levels of analysis and policy domains.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**POL 70507 CONFLICT TRANSFORMATION AND RECONCILIATION 3 Credit Hours**

(Slashed with POL 60507) Cross-cultural analysis of transition, from mass violence to justice and from protracted conflict to democracy. Subjects of study include truth and reconciliation commissions, criminal tribunal's apologies reparations and other aids to conflict transformation.

**Prerequisite:** POL 70501; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**POL 70510 POLITICS OF DEVELOPMENT 3 Credit Hours**

(Slashed with POL 60510) Course surveys the scholarship on political development, examining the ways in which the conceptualization of development has evolved over time, looking specifically at institutionalization, state failure and the role of civil society.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter



**POL 70511 INTERNATIONAL POLITICAL ECONOMY 3 Credit Hours**  
(Slashed with POL 60511) Introduces students to the study of how politics and economics interact on a global scale, covering the major theories of the international political economy, the international monetary system, global trade, and the connections between international economics and domestic development.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**POL 70574 STRATEGIC PLANNING 3 Credit Hours**

(Slashed with PADM 60574) Introduction to the practice of strategic planning as it relates to policy design and implementation by public and nonprofit organizations.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**POL 70591 SEMINAR IN TRANSNATIONAL AND COMPARATIVE POLITICS AND POLICY 3 Credit Hours**

(Slashed with POL 60591) (Repeatable for credit) Seminar on current and important topics in transnational and comparative politics and policy. Subject matter varies depending on the emerging issue. This course may be repeated for credit with departmental approval.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Seminar

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**POL 70901 PROSEMINAR IN CONFLICT ANALYSIS AND MANAGEMENT 3 Credit Hours**

(Slashed with POL 60901) Covers the historical development of the conflict analysis and management field; conflict theories; the dynamics by which conflicts escalate, stalemate and de-escalate; and theories of conflict intervention, resolution and transformation.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**POL 70902 POWER, CONFLICT AND THE POLITICS OF GENDER 3 Credit Hours**

(Slashed with POL 60902) Examines power disparities and gender as sources of conflict in multiple arenas—including family, community, workplace and the political sphere. The intersections of gender and power in the generation and resolution of social conflicts are examined. Emphasis is placed on empowerment strategies and tactics used to transform gendered conflicts and redress power imbalances.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**POL 70903 IDENTITY DRIVEN CONFLICTS 3 Credit Hours**

(Slashed with POL 60903) Explores the roles played by ethnicity, race, religion, culture and other elements of identity in the generation, resolution and conduct of conflicts within and between groups. Physical and symbolic markers of difference are examined in order to understand both why groups differentiate themselves from one another and how mechanisms such as skin color, religious affiliation, ethnic background or cultural traditions can provide the impetus for conflict or the grounds for resolution.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**POL 70904 SOCIAL MOVEMENTS AND NONVIOLENT CONFLICTS 3 Credit Hours**

(Slashed with POL 60904) The waging and escalating of conflicts by social movements through nonviolent actions frequently shifts conflicts from one stage to another while also contributing to conflict transformation and to substantive social and political changes. Course focuses on social movement theories and practices, and on the complicated dynamics of nonviolent action campaigns waged by social movements.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**POL 70906 POLITICAL VIOLENCE 3 Credit Hours**

(Slashed with POL 60906) Examines the dynamics, networks, interests and resource mobilization underlying state-sponsored political violence, focusing on "low-intensity conflict" and counter-insurgency, paramilitarism and genocide. Of special interest is the relationship of the state to various non-state actors, both perpetrators and victims, and the role of the international community in domestic-level violence.

**Prerequisite:** POL 70501 or POL 70901; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**POL 70907 TERRORISM AND HUMAN RIGHTS 3 Credit Hours**

(Slashed with POL 60907) Examines how governments try to adhere to the rule of law in managing terrorist threats in a post 9-11 era, thus striking a balance between the competing demands of public safety, personal freedom, and human rights. Topics include understanding terrorism as a problem for western governments, the rule of law, and human rights.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**POL 70991 SEMINAR IN CONFLICT ANALYSIS AND MANAGEMENT 3 Credit Hours**

Repeatable for maximum 9 credit hours)(Slashed with POL 60991) Seminar on current and important topics in conflict analysis and management. Course may be repeated for credit toward a degree with departmental approval.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Seminar

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter



**POL 71094 COLLEGE TEACHING IN POLITICAL SCIENCE 1 Credit Hour**

(Repeatable for credit)(Slashed with POL 61094) Staff training and experience in college teaching; colloquia on professional ethics and responsibilities of political scientists. Maximum 4 credit hours applicable toward a degree with graduate studies committee approval.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 1 lecture

**Grade Mode:** Standard Letter

**POL 79091 SEMINAR IN QUANTITATIVE METHODS 3 Credit Hours**

(Repeatable for maximum 9 credit hours)(Slashed with POL 69091) Focuses on select topics in quantitative methods, including limited and categorical dependent variables, hierarchical linear models, panel data, structural equation modeling and Q Methodology. More than one seminar may be offered.

**Prerequisite:** POL 70004; and doctoral standing.

**Schedule Type:** Seminar

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**POL 79095 SPECIAL TOPICS IN POLITICAL SCIENCE AND PUBLIC POLICY 3 Credit Hours**

(Repeatable for a maximum of 12 credit hours)(Slashed with POL 69095) Topic varies per course offering.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**POL 81098 RESEARCH 1-15 Credit Hours**

(Repeatable for credit) Research or individual investigation for doctoral students who have not yet passed their candidacy examination. Credits may be applied toward degree if department approves and when letter grade is given.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Research

**Contact Hours:** 1-15 other

**Grade Mode:** Standard Letter-IP

**POL 81199 DISSERTATION I 15 Credit Hours**

(Repeatable for credit) Doctoral dissertation, for which registration in at least two semesters is required, and the first of which will be semester in which dissertation work is begun and continuing until the completion of 30 hours.

**Prerequisite:** Doctoral standing; and special approval.

**Schedule Type:** Dissertation

**Contact Hours:** 15 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**POL 81299 DISSERTATION II 15 Credit Hours**

(Repeatable for credit) Continuing registration required for doctoral students who have completed the initial 30 hours of dissertation and continuing until all degree requirements are met.

**Prerequisite:** POL 81199; and doctoral standing.

**Schedule Type:** Dissertation

**Contact Hours:** 15 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

## Public Administration (PADM)

**PADM 60195 SPECIAL TOPICS IN PUBLIC ADMINISTRATION 3 Credit Hours**

(Repeatable for credit) (Cross-listed with POL 70195) Topic varies per course offerings.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PADM 60198 RESEARCH IN PUBLIC ADMINISTRATION 1-3 Credit Hours**

(Repeatable for credit) Research or individual investigation. Credits earned may be applied toward a degree with department approval.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Research

**Contact Hours:** 1-3 other

**Grade Mode:** Standard Letter-IP

**PADM 60200 NONPROFIT ADVOCACY 3 Credit Hours**

This course explores the U.S. public-policy making process as it applies to nonprofit organizations. Nonprofits influence policy making or "advocacy" through a variety of methods, such as lobbying, campaigning, protesting, and policy monitoring. The course explores how nonprofit organizations both shape and are shaped by public policy.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PADM 60310 LEADERSHIP IN THE NONPROFIT AND PUBLIC SECTOR 3 Credit Hours**

This course teaches students theory, practice, and skills for leading nonprofit and public organizations. Topics include: organizational theory and behavior; organizational culture; integrity and ethics; group dynamics; conflict management; and creating an environment that promotes diversity and inclusion.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PADM 60371 GRADUATE INTRODUCTION TO PUBLIC ADMINISTRATION 3 Credit Hours**

(Cross-listed with POL 70371) Introductory course to the theory and study of public administration. Topics include evolution and characteristics of the modern nation state; core functions of public bureaucracy in any nation state; intergovernmental relations; formal and informal institutions and their role in policy; legal-regulatory processes; historical evolution of public administration as an academic field; and major paradigms in organization theory and internal organizational dynamics.

**Prerequisite:** Public administration major; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PADM 60375 PUBLIC PERSONNEL ADMINISTRATION 3 Credit Hours**

Study of public personnel systems, including underlying system values and current problems with emphasis on skill development and understanding of techniques for public personnel managers.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PADM 60376 LABOR MANAGEMENT RELATIONS IN THE PUBLIC SECTOR 3 Credit Hours**

This course focuses on issues peculiar to public sector labor relations, including the impact of public employee unionism on traditional merit systems and personnel policy decision processes.

**Prerequisite:** PADM 60375; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PADM 60377 PUBLIC BUDGETING AND FINANCIAL MANAGEMENT 3 Credit Hours**

(Cross-listed with POL 70377) Focuses on two aspects of public financial analysis: budgeting and financial management. The topics in budgeting are the basic purposes of budgets as mechanisms of resource control and allocation, and as legal documents; distinct budget formats and cross-walking of formats; budget preparation; legislative review; implementation and auditing. The topics in financial management are the mechanisms and tools for financing public operations, debt management, fund accounting, analyzing budgets and forecasting.

**Prerequisite:** Public administration major; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PADM 60378 MUNICIPAL MANAGEMENT AND ADMINISTRATION 3 Credit Hours**

Detailed analysis of metropolitan complex. Emphasis given to administrative, political, fiscal and legal problems in governing cities.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PADM 60379 PROGRAM EVALUATION I 3 Credit Hours**

(Cross-listed with POL 70379) Introduction to evaluation of government programs. Emphasis on familiarizing students with the theory and specifically the techniques utilized under different evaluation formats.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PADM 60381 METHODS IN PUBLIC ADMINISTRATION 3 Credit Hours**

This course is a graduate-level introduction to statistical methods and their use in public administration.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PADM 60382 SEMINAR IN PUBLIC ADMINISTRATION 3 Credit Hours**

Study of selected problem areas in public service organizations with emphasis on understanding the factors contributing to them, their solution and literature bearing on the problems.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PADM 60386 PUBLIC SECTOR INFORMATION TECHNOLOGY MANAGEMENT 3 Credit Hours**

(Cross-listed with POL 70386) Management of information technology systems in the public sector. Specific focus on: planning and acquisition of hardware and software and networking technologies, organizational governance and implementation, information security and privacy, legal requirements, IT service delivery and emerging enterprise technologies.

**Prerequisite:** Public administration major; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PADM 60387 ELECTRONIC GOVERNANCE 3 Credit Hours**

(Cross-listed with POL 70387) An introduction to electronic governance with an emphasis on public administration. Examines the implications of information and communication technology in public organizations with regard to democracy, civic engagement and performance improvement. Through case studies from the United States and across the world, students become familiar with the factors and issues surrounding the implementation of electronic governance on a comparative basis.

**Prerequisite:** PADM 60386; and public administration major; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PADM 60392 INTERNSHIP IN PUBLIC ADMINISTRATION 3 Credit Hours**

(Repeatable for credit) Provides an opportunity for students to gain practical experience and be exposed to processes of public decision making and policy development.

**Prerequisite:** Public administration major; and graduate standing; and special approval.

**Schedule Type:** Practical Experience

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter-IP

**PADM 60470 PERSONAL ACCOUNTABILITY IN THE PUBLIC SERVICE 3 Credit Hours**

(Cross-listed with POL 70470) Focus is on students internalizing their role in the public service as stewards of the public trust. Topics covered include dimensions of stewardship: maintaining personal honor, protecting the liberty and dignity of the citizen, dimensions of justice, anti-corruption, incorporating principles of stewardship in their personal decision making and throughout the organization.

**Prerequisite:** Public administration major; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PADM 60471 NONPROFIT LAW 3 Credit Hours**

(Cross-listed with POL 70471) Introduction to legal issues for nonprofit organizations in the United States, including types of IRS tax exempt status, basic requirements for establishing/operating nonprofit organizations specifically in Ohio.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PADM 60472 NONPROFIT BOARD EXEC RELATIONS 3 Credit Hours**

(Cross-listed with POL 70472) Key aspects of effective nonprofit governance, major roles of nonprofit board members and their responsibilities and governance structures.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PADM 60475 CAPSTONE SEMINAR 3 Credit Hours**

(Repeatable for credit) (Cross-listed with POL 70475) Students complete an approved, written project that is analytical and research-based.

**Prerequisite:** Public administration major; and graduate standing; and special approval.

**Schedule Type:** Seminar

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter-IP

**PADM 60477 NONPROFIT FINANCIAL RESOURCE DEVELOPMENT 3 Credit Hours**

(Cross-listed with POL 70477) Successful strategies for fundraising and resource development for nonprofit organizations. Students are exposed to fundraising in practice and write a resource development plan.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PADM 60574 STRATEGIC PLANNING 3 Credit Hours**

(Cross-listed with POL 70574) Introduction to the practice of strategic planning as it relates to policy design and implementation by public and nonprofit organizations.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

## Columbus Program in Intergovernmental Issues

### College of Arts and Sciences

Department of Political Science

302 Bowman Hall

Kent Campus

330-672-2060

polisci@kent.edu

www.kent.edu/polisci

### Description

The Columbus Program in Intergovernmental Issues provides students the opportunity to experience firsthand the public policy making process in Ohio's state capital while earning a full semester's credit toward graduation. The program is a unique learning community and requires full-time residence in Columbus during the fall semester. The program is offered, in part, with the cooperation of Kent State alumni living and working in the greater Columbus area and, thus, offers students excellent career networking opportunities.

### Fully Offered At:

- Columbus

## Admission Requirements

The program is open to students from all academic disciplines who have completed at least 45 credit hours of college coursework with a minimum 2.500 overall GPA.

## Program Requirements

Code	Title	Credit Hours
<b>Program Requirements</b>		
POL 40980	COLUMBUS PROGRAM IN STATE ISSUES (ELR) 1	15
Minimum Total Credit Hours:		15

- <sup>1</sup> Students receive 15 credit hours of academic credit, broken down as follows: 6 credit hours for attending regular briefings; 6 credit hours for completing an internship in Columbus; and 3 credit hours for completing the requirements while residing in Columbus.

## International Relations - B.A.

### College of Arts and Sciences

Department of Political Science

302 Bowman Hall

Kent Campus

330-672-2060

polisci@kent.edu

www.kent.edu/polisci

### Description

The Bachelor of Arts degree in International Relations empowers students to make a difference on a global scale. Whether students are interested in human rights, economic development, international law, peacebuilding, climate change, or some other global question, the program encourages them to understand international problems from a range of perspectives and see more clearly how they can make an impact on them.

The major is interdisciplinary, which enables students to explore issues from such perspectives as political science, economics, and geography, as well as history, literature, and pan-African studies. IR students also engage in advanced language study, enhancing their ability to communicate globally, and they are encouraged to study abroad if they are able. The program has permanent arrangements for study in Florence or Geneva, and more customized opportunities are also possible.

Because of their broad exposure to global issues and their language training, IR majors go on to rewarding careers in almost every imaginable sector, including international organizations, non-profit agencies, business, law, and government. To all of those areas, they bring a multifaceted understanding of the global system, and wherever they go, they make a difference.

### Fully Offered At:

- Kent Campus

## Admission Requirements

The university affirmatively strives to provide educational opportunities and access to students with varied backgrounds, those with special

talents and adult students who graduated from high school three or more years ago.

**Freshman Students on the Kent Campus:** The freshman admission policy on the Kent Campus is selective. Admission decisions are based upon the following: cumulative grade point average, ACT and/or SAT scores, strength of high school college preparatory curriculum and grade trends. The Admissions Office at the Kent Campus may defer the admission of students who do not meet admissions criteria but who demonstrate areas of promise for successful college study. Deferred applicants may begin their college coursework at one of seven regional campuses of Kent State University. For more information on admissions, including additional requirements for some academic programs, visit the admissions website for new freshmen.

**Freshman Students on the Regional Campuses:** Kent State campuses at Ashtabula, East Liverpool, Geauga, Salem, Stark, Trumbull and Tuscarawas, as well as the Regional Academic Center in Twinsburg, have open enrollment admission for students who hold a high school diploma, GED or equivalent.

**English Language Proficiency Requirements for International Students:** All international students must provide proof of English language proficiency (unless they meet specific exceptions) by earning a minimum 525 TOEFL score (71 on the Internet-based version), minimum 75 MELAB score, minimum 6.0 IELTS score or minimum 48 PTE score, or by completing the ESL level 112 Intensive Program. For more information on international admission, visit the Office of Global Education's admission website.

**Transfer, Transitioning and Former Students:** For more information about admission criteria for transfer, transitioning and former students, please visit the admissions website.

## Program Learning Outcomes

Graduates of this program will be able to:

1. Demonstrate a basic understanding of global economics, politics, geography, literature and societies.
2. Demonstrate knowledge of at least one foreign language through intermediate II.

## University Requirements

All students in a bachelor's degree program at Kent State University must complete the following university requirements for graduation.

**NOTE:** University requirements may be fulfilled in this program by specific course requirements. Please see Program Requirements for details.

Destination Kent State: First Year Experience	1
Course is not required for students with 25 transfer credits, excluding College Credit Plus, or age 21+ at time of admission.	
Diversity Domestic/Global (DIVD/DIVG)	2 courses
Students must successfully complete one domestic and one global course, of which one must be from the Kent Core.	
Experiential Learning Requirement (ELR)	varies
Students must successfully complete one course or approved experience.	
Kent Core (see table below)	36-37
Writing-Intensive Course (WIC)	1 course
Students must earn a minimum C grade in the course.	

Upper-Division Requirement	39 (or 42)
Students must successfully complete 39 upper-division (numbered 30000 to 49999) credit hours to graduate. Students in a B.A. and/or B.S. degree in the College of Arts and Sciences must complete 42 upper-division credit hours.	
Total Credit Hour Requirement	120
Some bachelor's degrees require students to complete more than 120 credit hours.	

## Kent Core Requirements

Kent Core Composition (KCOMP)	6
Kent Core Mathematics and Critical Reasoning (KMCR)	3
Kent Core Humanities and Fine Arts (KHUM/KFA) (min one course each)	9
Kent Core Social Sciences (KSS) (must be from two disciplines)	6
Kent Core Basic Sciences (KBS/KLAB) (must include one laboratory)	6-7
Kent Core Additional (KADL)	6
<b>Total Credit Hours:</b>	<b>36-37</b>

## Program Requirements

### Major Requirements

Code	Title	Credit Hours
<b>Major Requirements (courses count in major GPA)</b>		
ECON 22060	PRINCIPLES OF MICROECONOMICS (KSS)	3
or HIST 11051	WORLD HISTORY: MODERN (DIVG) (KHUM)	
GEOG 22061	HUMAN GEOGRAPHY (DIVG) (KSS)	3
POL 10504	THE NEW PANGAEA: YOUR ROLE IN OUR GLOBAL COMMUNITY	3
Foreign Language <sup>1</sup>		6-8
Global Economics Elective, choose from the following:		
ECON 22061	PRINCIPLES OF MACROECONOMICS (KSS)	3
ECON 32084	ECONOMICS OF THE ENVIRONMENT	
ECON 42075	INTERNATIONAL ECONOMIC RELATIONS	
ECON 42076	ECONOMIC DEVELOPMENT	
ECON 42079	EUROPEAN ECONOMIC ISSUES	
GEOG 31070	POPULATION AND THE ENVIRONMENT	
GEOG 41066	GLOBAL CLIMATE CHANGE	
GEOG 44010	GEOGRAPHIES OF GLOBAL DEVELOPMENT (WIC) <sup>2</sup>	
POL 30003	POLITICAL ECONOMY	
POL 30810	POLITICS OF THE GLOBAL ECONOMY	
POL 40540	POLITICS OF DEVELOPMENT (DIVG)	
Global Politics Elective, choose from the following:		
GEOG 17063	WORLD GEOGRAPHY (DIVG) (KSS)	3
GEOG 32080	POLITICS AND PLACE (DIVG)	
HIST 31030	NATO:THE ENDURING ALLIANCE	
HIST 31035	THE GLOBAL COLD WAR	
HIST 31071	US FOREIGN RELATIONS THROUGH 1898	
HIST 31072	US FOREIGN RELATIONS, 1898-1945	
HIST 31073	US FOREIGN RELATIONS SINCE 1945	
HIST 31119	THE SIXTIES: A THIRD WORLD VIEW	
HIST 31120	COMPARATIVE THIRD WORLD REVOLUTIONS	
HIST 31124	HIGHLIFE HISTORIES: MODERN AFRICAN URBAN EXPERIENCE	
HIST 41060	COMPARATIVE FASCISM	

PACS 31003	NONVIOLENCE: THEORY AND PRACTICE
PACS 32030	INTERNATIONAL CONFLICT RESOLUTION (DIVG)
PACS 32040	CROSS-CULTURAL CONFLICT MANAGEMENT (DIVG)
PACS 41010	RECONCILIATION VERSUS REVENGE: TRANSITIONAL JUSTICE (DIVG) (WIC) <sup>2</sup>
PAS 33130	GENDER AND SEXUALITY IN AFRICA AND THE AFRICAN DIASPORA
PAS 37020	THE MODEL AFRICAN UNION (ELR)
POL 10500	WORLD POLITICS (DIVG) (KSS)
POL 30500	INTERNATIONAL RELATIONS THEORY
POL 30511	PROBLEMS OF INTERNATIONAL ORGANIZATION
POL 30820	INTERNATIONAL ORGANIZATION AND LAW
POL 30840	NONGOVERNMENTAL ORGANIZATIONS
POL 39592	GENEVA INTERNSHIP (ELR)
POL 40112	POLITICS AND THE MASS MEDIA
POL 40530	POLITICS OF WAR
POL 40560	HUMAN RIGHTS AND SOCIAL JUSTICE (DIVG)
POL 40591	SEMINAR IN INTERNATIONAL RELATIONS-COMPARATIVE POLITICS (WIC) <sup>2</sup>
POL 40620	POLITICS OF SOCIAL MOVEMENTS (DIVD)
POL 40840	COMPARATIVE FOREIGN POLICY
POL 40930	U.S. FOREIGN POLICY
Global Societies Elective, choose from the following: <span style="float:right">3</span>	
ENG 31006	WORLD ENGLISHES (DIVG) (WIC) <sup>2</sup>
ENG 33013	PAN-AFRICAN WOMEN'S LITERATURE (DIVG)
or PAS 37100	PAN-AFRICAN WOMEN'S LITERATURE (DIVG)
ENG 33015	AFRICAN LITERATURES (DIVG)
or PAS 32050	AFRICAN LITERATURES (DIVG)
ENG 34005	BRITISH AND IRISH LITERATURE, 1900-PRESENT
ENG 34011	WORLD LITERATURE IN ENGLISH (DIVG)
GEOG 37040	GEOGRAPHY OF AFRICA (DIVG)
GEOG 37045	GEOGRAPHY OF THE MIDDLE EAST
GEOG 37066	GEOGRAPHY OF EUROPE (DIVG)
GEOG 37070	GEOGRAPHY OF EAST AND SOUTHEAST ASIA (DIVG)
GEOG 37072	GEOGRAPHY OF CHINA
GEOG 37084	GEOGRAPHY OF SOUTH AMERICA (DIVG)
GEOG 37085	GEOGRAPHY OF LATIN AMERICA AND THE CARIBBEAN (DIVG)
HIST 31055	POLITICS, CULTURE AND SOCIETY OF 20TH-CENTURY EUROPE
HIST 31112	CHINESE CIVILIZATION
HIST 31113	HISTORY OF JAPAN
HIST 31114	TRADITION AND REVOLUTION IN SOUTHEAST ASIA
HIST 31115	INDIA SINCE 1526
HIST 31118	VIETNAM WAR
HIST 31123	HISTORY OF POST COLONIAL AFRICA
HIST 31130	HISTORY OF PRE-COLONIAL AFRICA TO 1880
HIST 31140	MODERN LATIN AMERICA (DIVG)
HIST 31141	EARLY LATIN AMERICA
HIST 41020	NINETEENTH-CENTURY EUROPE
HIST 41024	MODERN EUROPEAN HISTORY, 1914-1945
HIST 41025	MODERN EUROPEAN HISTORY:1945-PRESENT

HIST 41041	HISTORY OF GERMANY, 1871-PRESENT
HIST 41044	IMPERIAL RUSSIA, 1689-1917
HIST 41045	MODERN RUSSIA, 1917-PRESENT
HIST 41129	THE HOLOCAUST:THE DESTRUCTION OF EUROPEAN JEWRY, 1938-1945
HIST 41132	HISTORY OF COLONIAL AFRICA, 1880-1994
HIST 42142	AFRO-LATIN AMERICA
PAS 15200	INTRODUCTION TO WEST AFRICAN CULTURES
PAS 22200	INTRODUCTION TO THE AFRICAN ARTS
PAS 23310	NATIVE AMERICAN STUDIES
PAS 24407	CARIBBEAN STUDIES (DIVG)
PAS 33310	LATINOS, THE AFRICAN DIASPORA AND AMERICAN SOCIETY (DIVD)
PAS 34000	INTRODUCTION TO AFRICAN WORLD VIEW (DIVG)
PAS 34100	ISLAMIC WEST AFRICA
PAS 35200	AFRICAN SOCIAL AND POLITICAL SYSTEMS
POL 10004	COMPARATIVE POLITICS (DIVG) (KSS)
POL 30002	POLITICAL THOUGHT
POL 30520	EUROPEAN POLITICS (DIVG)
POL 30530	ASIAN POLITICS (DIVG)
POL 30540	AFRICAN POLITICS (DIVG)
POL 30550	LATIN AMERICAN POLITICS (DIVG)
POL 30560	MIDDLE EAST POLITICS (DIVG)
POL 30570	PALESTINE AND ISRAEL
REL 11020	INTRODUCTION TO WORLD RELIGIONS (DIVG) (ELR) (KHUM)

Global Economics, Global Politics and Global Societies Upper-Division Electives (30000 and 40000 level) <sup>3</sup> 12

**Additional Requirements (courses do not count in major GPA)**

UC 10097	DESTINATION KENT STATE: FIRST YEAR EXPERIENCE	1
Foreign Language (see Foreign Language College Requirement below)		14-16
College General Requirement (must be from Kent Core Basic Sciences) <sup>4</sup>		3
College General Requirements (must be from Kent Core Social Sciences) <sup>5</sup>		3
Kent Core Composition		6
Kent Core Mathematics and Critical Reasoning		3
Kent Core Humanities and Fine Arts (minimum one course from each) <sup>6</sup>		6-9
Kent Core Social Sciences (must be from two disciplines) <sup>6</sup>		0-3
Kent Core Basic Sciences (must include one laboratory)		6-7
Kent Core Additional		6
General Electives (total credit hours depends on earning 120 credit hours, including 42 upper-division credit hours)		33
Minimum Total Credit Hours:		120

<sup>1</sup> Students must complete a foreign language offered at Kent State (Arabic, Chinese, French, German, Italian, Japanese, Russian, Spanish) at the Intermediate II level (or equivalent). This also will satisfy the college's foreign language requirement (see Foreign Language College Requirement below for additional information). In addition, students must either complete two upper-division courses in the same language or complete a second language at the Elementary II level (or equivalent). With approval of the political science undergraduate coordinator, students may apply courses taken in a foreign language abroad and/or by a proficiency exam (e.g., ACTFL) to satisfy all or part of the language requirement.



- <sup>2</sup> A minimum C grade must be earned to fulfill the writing-intensive requirement.
- <sup>3</sup> Maximum three courses in one subject area from the four elective groups (Global Economics, Global Politics and/or Global Societies electives lists above)
- <sup>4</sup> One additional course taken from the Kent Core Basic Science courses in the following Arts and Sciences disciplines: Anthropology (ANTH), Biological Sciences (BSCI), Chemistry (CHEM), Geography (GEOG), Geology (GEOL) or Physics (PHY). The course may not be from the student's major.
- <sup>5</sup> One additional course taken from the Kent Core Social Sciences courses in the following Arts and Sciences disciplines: Anthropology (ANTH), Geography (GEOG), Criminology and Justice Studies (CRIM), Peace and Conflict Studies (PACS), Political Science (POL), Psychology (PSYC) or Sociology (SOC). The course may not be from the student's major.
- <sup>6</sup> The credit hours depends on if the student completes major requirement ECON 22060 (Social Sciences) or HIST 11051 (Humanities).

### Graduation Requirements

Minimum Major GPA	Minimum Overall GPA
2.000	2.000

### Foreign Language College Requirement

Students pursuing the Bachelor of Arts degree in the College of Arts and Sciences must complete 14-16 credit hours of foreign language.<sup>1</sup> To complete the requirement, students have the equivalent of Elementary I and II in any language, plus one of the following options:

- 1. Intermediate I and II of the same language<sup>2</sup>
- 2. Elementary I and II of a second language
- 3. Any combination of two courses from the following list:
  - Intermediate I of the same language
  - MCLS 10001 INTRODUCTION TO STRUCTURAL CONCEPTS FOR LANGUAGE STUDENTS
  - MCLS 20091 VARIABLE CONTENT SEMINAR IN GLOBAL LITERACY: CASE STUDIES
  - MCLS 21417 MULTICULTURALISM IN TODAY'S GERMANY (DIVG)
  - MCLS 28404 THE LATIN AMERICAN EXPERIENCE (DIVG)

<sup>1</sup> All students with prior foreign language experience should take the foreign language placement test to determine the appropriate level at which to start. Some students may begin beyond the Elementary I level and will complete the requirement with fewer credit hours and fewer courses. This may be accomplished by (1) passing a course beyond Elementary I through Intermediate II level; (2) receiving credit through Credit by Exam (CBE), Advanced Placement (AP), International Baccalaureate (IB) or College Level Examination Program (CLEP); or (3) being designated a 'native speaker' of a non-English language (consult with the College of Arts and Sciences Advising Office for additional information). When students complete the requirement with fewer than 14 credit hours and four courses, they will complete remaining credit hours with general electives.

<sup>2</sup> Certain majors, concentrations and minors may require specific languages, limit the languages from which a student may choose or require coursework through Intermediate II. Students who plan to pursue graduate study may need particular language coursework.

## Roadmap

This roadmap is a recommended semester-by-semester plan of study for this major. However, courses designated as critical (!) must be completed in the semester listed to ensure a timely graduation.

Semester One		Credits
GEOG 22061	HUMAN GEOGRAPHY (DIVG) (KSS)	3
or	or THE NEW PANGAEA: YOUR ROLE IN OUR	
POL 10504	GLOBAL COMMUNITY	
UC 10097	DESTINATION KENT STATE: FIRST YEAR EXPERIENCE	1
Foreign Language		4
Kent Core Requirement		3
Kent Core Requirement		3
Credit Hours		14
Semester Two		Credits
GEOG 22061	HUMAN GEOGRAPHY (DIVG) (KSS)	3
or	or THE NEW PANGAEA: YOUR ROLE IN OUR	
POL 10504	GLOBAL COMMUNITY	
Foreign Language		4
Kent Core Requirement		3
Kent Core Requirement		3
Kent Core Requirement		3
Credit Hours		16
Semester Three		Credits
ECON 22060	PRINCIPLES OF MICROECONOMICS (KSS)	3
or	or WORLD HISTORY: MODERN (DIVG) (KHUM)	
HIST 11051		
Foreign Language		3-4
Kent Core Requirement		3
Kent Core Requirement		3
Kent Core Requirement		3
Credit Hours		15
Semester Four		Credits
Global Societies Elective		3
Foreign Language		3-4
College General Requirement (Basic Sciences)		3
College General Requirement (Social Sciences)		3
Kent Core Requirement		3
Credit Hours		15
Semester Five		Credits
Global Economics Elective		3
Global Politics Elective		3
Global Economics, Politics and Societies Upper-Division Electives (30000 and 40000 level) (30000 and 40000 level)		3
Foreign Language		3-4
General Elective		3
Credit Hours		15
Semester Six		Credits
Note: Students are encouraged to undertake a study abroad experience in junior or senior year.		
General Electives		15
Credit Hours		15
Semester Seven		Credits
Global Economics, Politics and Societies Upper-Division Electives (30000 and 40000 level)		9
Foreign Language		3-4

General Elective	3
Credit Hours	15
<b>Semester Eight</b>	
Note: Students are encouraged to undertake a study abroad experience in junior or senior year.	
General Electives	15
Credit Hours	15
Minimum Total Credit Hours:	120

## Nonprofit Management - Graduate Certificate

**College of Arts and Sciences**  
 Department of Political Science  
 302 Bowman Hall  
 Kent Campus  
 330-672-2060  
 polisci@kent.edu  
 www.kent.edu/polisci

### Description

The Nonprofit Management graduate certificate prepares graduates to work in the management and administrative positions in nonprofit organizations across a range of industries. Students acquire basic management skills, as well as applied skills specific to the nonprofit sector, that may include fundraising, executive board relations, policy advocacy and nonprofit law.

Prospective employers are nonprofit sector organizations as well as private and public sector organizations that frequently interact with nonprofit organizations.

### Fully Offered At:

- Online

### Admission Requirements

- Bachelor's degree from an accredited college or university
- Minimum 3.000 undergraduate GPA on a 4.000 point scale
- Official transcript(s)
- Goal statement
- A Writing Sample
- Three letters of recommendation
- English language proficiency - all international students must provide proof of English language proficiency (unless they meet specific exceptions) by earning one of the following:
  - Minimum 550 TOEFL PBT score (paper-based version)
  - Minimum 79 TOEFL IBT score (Internet-based version)
  - Minimum 77 MELAB score
  - Minimum 6.5 IELTS score
  - Minimum 58 PTE score

## Program Requirements

### Certificate Requirements

Code	Title	Credit Hours
<b>Certificate Requirements</b>		
PADM 60375	PUBLIC PERSONNEL ADMINISTRATION	3
or PADM 60377	PUBLIC BUDGETING AND FINANCIAL MANAGEMENT	
or PADM 60379	PROGRAM EVALUATION I	
or PADM 60574	STRATEGIC PLANNING	
Certificate Electives, choose from the following:		9
PADM 60200	NONPROFIT ADVOCACY	
PADM 60310	LEADERSHIP IN THE NONPROFIT AND PUBLIC SECTOR	
PADM 60471	NONPROFIT LAW	
PADM 60472	NONPROFIT BOARD EXEC RELATIONS	
PADM 60477	NONPROFIT FINANCIAL RESOURCE DEVELOPMENT	
Minimum Total Credit Hours:		12

### Graduation Requirements

Minimum Certificate GPA	Minimum Overall GPA
3.000	

## Political Science - B.A.

**College of Arts and Sciences**  
 Department of Political Science  
 302 Bowman Hall  
 Kent Campus  
 330-672-2060  
 polisci@kent.edu  
 www.kent.edu/polisci

### Description

The Bachelor of Arts degree in Political Science empowers students to be engaged global citizens and informed consumers of information who are competitive in a range of careers. Graduates work in the public and private sectors across the United States and around the globe. Many also go on to graduate programs or to law school.

Students in the major are provided internship and study abroad opportunities, including two semester-long, 15-credit hour internship programs, one in Washington, D.C., and one in Columbus, Ohio. In addition, the Department of Political Science offers study-abroad courses in multiple countries during the summer, and students often also take advantage of Kent State programs in Florence, Italy, and Geneva, Switzerland. More information can be found on the Department of Political Science website.

The Political Science major comprises the following concentrations:

- The **American Politics** concentration investigates the political context of life in the United States in courses on public opinion, elections and the media, as well as Congress, the presidency, and the courts.
- The **International Relations-Comparative Politics** concentration focuses on international policy and politics, including aid and

development, energy and oil, human rights and regions of the world (e.g., Latin America, the Middle East and Russia).

- The **General** concentration allows students to design their own specialization rather than choosing a specific area to concentrate.
- The **Public Policy** concentration explores how governments address major policy questions such as health care, environmental protection and foreign policy. Courses introduce students not only to policy questions and implications, but also to the skills involved in policy analysis.

### Fully Offered At:

- Kent Campus

## Admission Requirements

The university affirmatively strives to provide educational opportunities and access to students with varied backgrounds, those with special talents and adult students who graduated from high school three or more years ago.

**Freshman Students on the Kent Campus:** The freshman admission policy on the Kent Campus is selective. Admission decisions are based upon the following: cumulative grade point average, ACT and/or SAT scores, strength of high school college preparatory curriculum and grade trends. The Admissions Office at the Kent Campus may defer the admission of students who do not meet admissions criteria but who demonstrate areas of promise for successful college study. Deferred applicants may begin their college coursework at one of seven regional campuses of Kent State University. For more information on admissions, including additional requirements for some academic programs, visit the admissions website for new freshmen.

**Freshman Students on the Regional Campuses:** Kent State campuses at Ashtabula, East Liverpool, Geauga, Salem, Stark, Trumbull and Tuscarawas, as well as the Regional Academic Center in Twinsburg, have open enrollment admission for students who hold a high school diploma, GED or equivalent.

**English Language Proficiency Requirements for International Students:** All international students must provide proof of English language proficiency (unless they meet specific exceptions) by earning a minimum 525 TOEFL score (71 on the Internet-based version), minimum 75 MELAB score, minimum 6.0 IELTS score or minimum 48 PTE score, or by completing the ESL level 112 Intensive Program. For more information on international admission, visit the Office of Global Education's admission website.

**Transfer, Transitioning and Former Students:** For more information about admission criteria for transfer, transitioning and former students, please visit the admissions website.

## Program Learning Outcomes

Graduates of this program will be able to:

1. Demonstrate critical thinking and analysis skills.
2. Demonstrate advanced written and oral communication skills.
3. Demonstrate advanced understanding of national and international issues and political systems.
4. Demonstrate multicultural literacy.

5. Demonstrate competence with quantitative statistical and qualitative analysis tools.

## University Requirements

All students in a bachelor's degree program at Kent State University must complete the following university requirements for graduation.

**NOTE:** University requirements may be fulfilled in this program by specific course requirements. Please see Program Requirements for details.

Destination Kent State: First Year Experience	1
Course is not required for students with 25 transfer credits, excluding College Credit Plus, or age 21+ at time of admission.	
Diversity Domestic/Global (DIVD/DIVG)	2 courses
Students must successfully complete one domestic and one global course, of which one must be from the Kent Core.	
Experiential Learning Requirement (ELR)	varies
Students must successfully complete one course or approved experience.	
Kent Core (see table below)	36-37
Writing-Intensive Course (WIC)	1 course
Students must earn a minimum C grade in the course.	
Upper-Division Requirement	39 (or 42)
Students must successfully complete 39 upper-division (numbered 30000 to 49999) credit hours to graduate. Students in a B.A. and/or B.S. degree in the College of Arts and Sciences must complete 42 upper-division credit hours.	
Total Credit Hour Requirement	120
Some bachelor's degrees require students to complete more than 120 credit hours.	

## Kent Core Requirements

Kent Core Composition (KCMP)	6
Kent Core Mathematics and Critical Reasoning (KMCR)	3
Kent Core Humanities and Fine Arts (KHUM/KFA) (min one course each)	9
Kent Core Social Sciences (KSS) (must be from two disciplines)	6
Kent Core Basic Sciences (KBS/KLAB) (must include one laboratory)	6-7
Kent Core Additional (KADL)	6
<b>Total Credit Hours:</b>	<b>36-37</b>

## Program Requirements

### Major Requirements

Code	Title	Credit Hours
<b>Major Requirements (courses count in major GPA)</b>		
POL 10004 or POL 10500	COMPARATIVE POLITICS (DIVG) (KSS) WORLD POLITICS (DIVG) (KSS)	3
POL 10100 or POL 10300	AMERICAN POLITICS (DIVD) (KSS) <sup>1</sup> PUBLIC POLICY	3
POL 30001	RESEARCH METHODS (ELR)	3
POL 30002 or POL 30003	POLITICAL THOUGHT POLITICAL ECONOMY	3
Political Science (POL) Elective		3
Political Science (POL) Upper-Division Elective (30000 or 40000 level) <sup>2</sup>		3
<b>Additional Requirements (courses do not count in major GPA)</b>		

UC 10097	DESTINATION KENT STATE: FIRST YEAR EXPERIENCE	1
Foreign Language (see Foreign Language College Requirement below)		14-16
Kent Core Composition		6
Kent Core Mathematics and Critical Reasoning		3
Kent Core Humanities and Fine Arts (minimum one course from each)		9
Kent Core Social Sciences (must be from two disciplines)		3
Kent Core Basic Sciences (must include one laboratory)		6-7
Kent Core Additional <sup>1</sup>		3-6
College General Requirements (must be from Kent Core Basic Sciences) <sup>3</sup>		3
College General Requirements (must be from Kent Core Social Sciences) <sup>4</sup>		3
General Electives (total credit hours depends on earning 120 credit hours, including 42 upper-division credit hours)		33
<b>Concentrations</b>		
Choose from the following:		18
American Politics		
General		
International Relations - Comparative Politics		
Public Policy		
Minimum Total Credit Hours:		120

- <sup>1</sup> Students who choose POL 10100 will need to take 3 credit hours of Kent Core Additional. Students who do not choose POL 10100 will need to take 6 credit hours of Kent Core Additional.
- <sup>2</sup> The following courses may be applied toward upper-division electives as approved by department: POL 40980; POL 40981; POL 40995; POL 40992 and POL 40996.
- <sup>3</sup> One additional course taken from the Kent Core Basic Sciences courses in the following Arts and Sciences disciplines: Anthropology (ANTH), Biological Sciences (BSCI), Chemistry (CHEM), Geography (GEOG), Geology (GEOL) or Physics (PHY). The course may not be from the student's major.
- <sup>4</sup> One additional course taken from the Kent Core Social Sciences courses in the following Arts and Sciences disciplines: Anthropology (ANTH), Geography (GEOG), Criminology and Justice Studies (CRIM), Peace and Conflict Studies (PACS), Political Science (POL), Psychology (PSYC) or Sociology (SOC). The course may not be from the student's major.

### American Politics Concentration Requirements

Code	Title	Credit Hours
<b>Concentration Requirements (courses count in major GPA)</b>		
POL 40191	SEMINAR IN AMERICAN POLITICS (WIC) <sup>1</sup>	3
Concentration Electives, choose from the following:		15
POL 30000	MAY 4 1970 AND ITS AFTERMATH	
POL 30100	AMERICAN POLITICAL THEORY	
POL 30110	THE CONGRESS	
POL 30120	PRESIDENCY AND EXECUTIVE BUREAUCRACY	
POL 30130	THE JUDICIAL PROCESS	
POL 30430	OHIO POLITICS	
POL 30450	URBAN POLITICS AND POLICY	
POL 30460	STATE POLITICS AND POLICY	
POL 40112	POLITICS AND THE MASS MEDIA	
POL 40116	PUBLIC OPINION AND POLITICAL BEHAVIOR	
POL 40118	POLITICAL PARTIES AND INTEREST GROUPS	

POL 40182	CONSTITUTIONAL LAW:GOVERNMENTAL STRUCTURES AND FUNCTIONS	
POL 40183	CONSTITUTIONAL LAW: CIVIL RIGHTS AND LIBERTIES (DIVD)	
POL 40410	REGULATORY POLICY	
POL 40440	U.S. ENVIRONMENTAL POLITICS AND POLICIES	
POL 40450	HEALTH CARE AND SOCIAL POLICY	
POL 40470	WOMEN, POLITICS AND POLICY (DIVD)	
POL 40620	POLITICS OF SOCIAL MOVEMENTS (DIVD)	
POL 40930	U.S. FOREIGN POLICY	
Minimum Total Credit Hours:		18

<sup>1</sup> A minimum C grade must be earned to fulfill the writing-intensive requirement.

### General Concentration Requirements

Code	Title	Credit Hours
<b>Concentration Requirements (courses count in major GPA)</b>		
Political Science Upper-Division Electives (POL 30000 or 40000 level)		15
Concentration Elective, choose from the following:		3
POL 40191	SEMINAR IN AMERICAN POLITICS (WIC) <sup>1</sup>	
POL 40391	SEMINAR IN PUBLIC POLICY (WIC) <sup>1</sup>	
POL 40591	SEMINAR IN INTERNATIONAL RELATIONS-COMPARATIVE POLITICS (WIC) <sup>1</sup>	
Minimum Total Credit Hours:		18

<sup>1</sup> A minimum C grade must be earned to fulfill the writing-intensive requirement.

### International Relations—Comparative Politics Concentration Requirements

Code	Title	Credit Hours
<b>Concentration Requirements (courses count in major GPA)</b>		
POL 40591	SEMINAR IN INTERNATIONAL RELATIONS-COMPARATIVE POLITICS (WIC) <sup>1</sup>	3
Concentration Electives, choose from the following:		15
POL 30500	INTERNATIONAL RELATIONS THEORY	
POL 30520	EUROPEAN POLITICS (DIVG)	
POL 30530	ASIAN POLITICS (DIVG)	
POL 30540	AFRICAN POLITICS (DIVG)	
POL 30550	LATIN AMERICAN POLITICS (DIVG)	
POL 30560	MIDDLE EAST POLITICS (DIVG)	
POL 30570	PALESTINE AND ISRAEL	
POL 30810	POLITICS OF THE GLOBAL ECONOMY	
POL 30820	INTERNATIONAL ORGANIZATION AND LAW	
POL 30840	NONGOVERNMENTAL ORGANIZATIONS	
POL 40530	POLITICS OF WAR	
POL 40540	POLITICS OF DEVELOPMENT (DIVG)	
POL 40560	HUMAN RIGHTS AND SOCIAL JUSTICE (DIVG)	
POL 40620	POLITICS OF SOCIAL MOVEMENTS (DIVD)	
POL 40840	COMPARATIVE FOREIGN POLICY	
POL 40930	U.S. FOREIGN POLICY	
Minimum Total Credit Hours:		18

<sup>1</sup> A minimum C grade must be earned to fulfill the writing-intensive requirement.

## Public Policy Concentration Requirements

Code	Title	Credit Hours
<b>Concentration Requirements (courses count in major GPA)</b>		
POL 40391	SEMINAR IN PUBLIC POLICY (WIC) <sup>1</sup>	3
Concentration Electives, choose from the following:		15
POL 30300	PUBLIC POLICY THEORY	
POL 30301	INTRODUCTION TO PUBLIC ADMINISTRATION	
POL 30310	PUBLIC POLICY ANALYSIS	
POL 30350	ENVIRONMENTAL CONFLICT RESOLUTION	
POL 30430	OHIO POLITICS	
POL 30450	URBAN POLITICS AND POLICY	
POL 30460	STATE POLITICS AND POLICY	
POL 30810	POLITICS OF THE GLOBAL ECONOMY	
POL 30820	INTERNATIONAL ORGANIZATION AND LAW	
POL 30840	NONGOVERNMENTAL ORGANIZATIONS	
POL 40320	ETHICS AND PUBLIC POLICY	
POL 40410	REGULATORY POLICY	
POL 40440	U.S. ENVIRONMENTAL POLITICS AND POLICIES	
POL 40450	HEALTH CARE AND SOCIAL POLICY	
POL 40470	WOMEN, POLITICS AND POLICY (DIVD)	
POL 40840	COMPARATIVE FOREIGN POLICY	
POL 40930	U.S. FOREIGN POLICY	
Minimum Total Credit Hours:		18

<sup>1</sup> A minimum C grade must be earned to fulfill the writing-intensive requirement.

## GRADUATION REQUIREMENTS

Minimum Major GPA	Minimum Overall GPA
2.000	2.000

### Foreign Language College Requirement

Students pursuing the Bachelor of Arts degree in the College of Arts and Sciences must complete 14-16 credit hours of foreign language.<sup>1</sup>

To complete the requirement, students have the equivalent of Elementary I and II in any language, plus one of the following options:

- Intermediate I and II of the same language<sup>2</sup>
- Elementary I and II of a second language
- Any combination of two courses from the following list:
  - Intermediate I of the same language
  - MCLS 10001 INTRODUCTION TO STRUCTURAL CONCEPTS FOR LANGUAGE STUDENTS
  - MCLS 20091 VARIABLE CONTENT SEMINAR IN GLOBAL LITERACY: CASE STUDIES
  - MCLS 21417 MULTICULTURALISM IN TODAY'S GERMANY (DIVG)
  - MCLS 28404 THE LATIN AMERICAN EXPERIENCE (DIVG)

<sup>1</sup> All students with prior foreign language experience should take the foreign language placement test to determine the appropriate level at which to start. Some students may begin beyond the Elementary I level and will complete the requirement with fewer credit hours and fewer courses. This may be accomplished by (1) passing a course beyond Elementary I through Intermediate II level; (2) receiving credit through Credit by Exam (CBE), Advanced Placement (AP), International Baccalaureate (IB) or College Level Examination Program (CLEP); or (3) being designated a 'native speaker' of a non-English language (consult with the College of Arts and Sciences Advising Office for additional information). When students complete the requirement with fewer than 14 credit hours and four courses, they will complete remaining credit hours with general electives.

<sup>2</sup> Certain majors, concentrations and minors may require specific languages, limit the languages from which a student may choose or require coursework through Intermediate II. Students who plan to pursue graduate study may need particular language coursework.



## Roadmap

This roadmap is a recommended semester-by-semester plan of study for this major. However, courses designated as critical (!) must be completed in the semester listed to ensure a timely graduation.

Semester One		Credits
POL 10100	AMERICAN POLITICS (DIVD) (KSS) or or PUBLIC POLICY	3
POL 10300		
UC 10097	DESTINATION KENT STATE: FIRST YEAR EXPERIENCE	1
Foreign Language		4
Kent Core Requirement		3
Kent Core Requirement		3
Credit Hours		14
Semester Two		Credits
POL 10004	COMPARATIVE POLITICS (DIVG) (KSS) or or WORLD POLITICS (DIVG) (KSS)	3
POL 10500		
Foreign Language		4
Kent Core Requirement		3
Kent Core Requirement		3
Kent Core Requirement		3
Credit Hours		16
Semester Three		Credits
POL 30002	POLITICAL THOUGHT or or POLITICAL ECONOMY	3
POL 30003		
Foreign Language		3
Kent Core Requirement		3
Kent Core Requirement		3
Kent Core Requirement		3
Credit Hours		15
Semester Four		Credits
Concentration Electives		6
Foreign Language		3
Kent Core Requirement		3
Kent Core Requirement		3
Credit Hours		15
Semester Five		Credits
POL 30001	RESEARCH METHODS (ELR)	3
Concentration Electives		6
College General Requirement		3
College General Requirement		3
Credit Hours		15
Semester Six		Credits
Political Science (POL) Elective		3
Concentration Elective		3
Kent Core Requirement or General Elective		3
General Electives		6
Credit Hours		15
Semester Seven		Credits
Political Science (POL) Upper-Division Elective (30000 or 40000 level)		3
General Electives		12
Credit Hours		15
Semester Eight		Credits
Concentration Seminar Requirement		3

General Electives	12
Credit Hours	15
Minimum Total Credit Hours:	120

## Political Science - M.A.

### College of Arts and Sciences

Department of Political Science

302 Bowman Hall

Kent Campus

330-672-2060

polisci@kent.edu

www.kent.edu/polisci

## Description

The Master of Arts degree in Political Science focuses broadly on the dynamics surrounding representation, equity, conflict, human rights, development and conflict resolution. Students delve into the scholarship on these dynamics (among others) in an interdisciplinary and theoretically sophisticated way, thinking about how the political process and government policy-making affect the lives of citizens, and how citizens influence those processes.

The Political Science major comprises the following concentrations:

PLEASE PROVIDE DESCRIPTIONS

- American Politics and Policy
- Conflict Analysis and Management
- Transnational and Comparative Politics

### Fully Offered At:

- Kent Campus

## Admission Requirements

- Bachelor's degree from an accredited college or university for unconditional admission
- Minimum 3.000 undergraduate GPA on a 4.000 point scale for unconditional admission
- Official transcript(s)
- GRE scores
- Goal statement
- Writing sample
- Three letters of recommendation
- English language proficiency - all international students must provide proof of English language proficiency (unless they meet specific exceptions) by earning one of the following:
  - Minimum 550 TOEFL PBT score (paper-based version)
  - Minimum 79 TOEFL IBT score (Internet-based version)
  - Minimum 77 MELAB score
  - Minimum 6.5 IELTS score
  - Minimum 58 PTE score
  - Minimum 110 Duolingo English Test score

For more information about graduate admissions, please visit the Graduate Studies admission website. For more information on international admission, visit the Office of Global Education's admission website.

## Program Learning Outcomes

Graduates of this program will be able to:

1. Understand the theoretical underpinnings of political science and be able to address real world issues and problems.
2. Attain research and methodological skills that will further their research and make them attractive to future employers.
3. Effectively communicate research findings and implications to a range of audiences including scholars, practitioners and citizens.

## Program Requirements

### Major Requirements

Code	Title	Credit Hours
<b>Major Requirements</b>		
POL 60002	SCOPE AND EPISTEMOLOGY	3
POL 60003	QUANTITATIVE METHODS I	3
POL 60010	QUALITATIVE RESEARCH METHODS	3
Non-Thesis or Thesis Option, choose from the following: <sup>1</sup>		9
<i>Non-Thesis option</i>		
POL 60099	CAPSTONE SEMINAR	
Electives (6 credit hours)		
<i>Thesis Option</i>		
POL 61199	THESIS I	
Elective (3 credit hours)		
<b>Concentrations</b>		
Choose from the following:		12
American Politics and Policy		
Conflict Analysis and Management		
Transnational and Comparative Politics		
Minimum Total Credit Hours:		30

<sup>1</sup> Students intending to pursue a Ph.D. are advised to choose the Thesis option

### American Politics and Policy Concentration Requirements

Code	Title	Credit Hours
<b>Concentration Requirements</b>		
POL 60101	STATUS OF THE FIELD: AMERICAN POLITICS AND POLICY	3
Concentration Electives, choose from the following:		9
POL 60102	AMERICAN POLICY PROCESS	
POL 60103	CONGRESS, THE PRESIDENCY AND THE COURTS	
POL 60105	FEDERALISM AND STATE POLICYMAKING	
POL 60106	URBAN POLICY AND POLITICS	
POL 60108	AMERICAN POLITICAL BEHAVIOR	
POL 60191	SEMINAR IN AMERICAN POLITICS AND POLICY	

Advisor-Approved Electives	
Minimum Total Credit Hours:	12

### Conflict Analysis and Management Concentration Requirements

Code	Title	Credit Hours
<b>Concentration Requirements</b>		
POL 60901	PROSEMINAR IN CONFLICT ANALYSIS AND MANAGEMENT	3
Concentration Electives, choose from the following:		9
POL 60507	CONFLICT TRANSFORMATION AND RECONCILIATION	
POL 60902	POWER, CONFLICT AND THE POLITICS OF GENDER	
POL 60903	IDENTITY DRIVEN CONFLICTS	
POL 60904	SOCIAL MOVEMENTS AND NONVIOLENT CONFLICTS	
POL 60906	POLITICAL VIOLENCE	
POL 60907	TERRORISM AND HUMAN RIGHTS	
POL 60991	SEMINAR IN CONFLICT ANALYSIS AND MANAGEMENT	
Advisor-Approved Electives		
Minimum Total Credit Hours:	12	

### Transnational and Comparative Politics Concentration Requirements

Code	Title	Credit Hours
<b>Concentration Requirements</b>		
POL 60501	STATUS OF THE FIELD: TRANSNATIONAL AND COMPARATIVE POLITICS AND POLICY	3
Concentration Electives, choose from the following:		9
POL 60502	GLOBAL GOVERNANCE	
POL 60503	FOREIGN POLICY ANALYSIS	
POL 60510	POLITICS OF DEVELOPMENT	
POL 60511	INTERNATIONAL POLITICAL ECONOMY	
POL 60591	SEMINAR IN TRANSNATIONAL AND COMPARATIVE POLITICS AND POLICY	
Advisor-Approval Electives		
Minimum Total Credit Hours:	12	

### Graduation Requirements

- Minimum 30 credit hours required for graduation

## Political Science - Minor

**College of Arts and Sciences**  
 Department of Political Science  
 302 Bowman Hall  
 Kent Campus  
 330-672-2060  
 polisci@kent.edu  
 www.kent.edu/polisci

## Description

The Political Science minor is for students who have an ongoing interest in politics—at the local, state, national or international level—but whose primary area of study does not allow a second major. Students study the general subject matter of political science and then advance to specialty areas that meet their own interests, needs and plans of study.

### Fully Offered At:

- Kent Campus
- Stark Campus

## Admission Requirements

Admission to a minor is open to students declared in a bachelor's degree, the A.A.B. or A.A.S. degree or the A.T.S. degree (not Individualized Program major). Students declared only in the A.A. or A.S. degree or the A.T.S. degree in Individualized Program may not declare a minor. Students may not pursue a minor and a major in the same discipline.

## Minor Requirements

Code	Title	Credit Hours
<b>Minor Requirements</b>		
POL 10004 or POL 10500	COMPARATIVE POLITICS (DIVG) (KSS) WORLD POLITICS (DIVG) (KSS)	3
POL 10100 or POL 10300	AMERICAN POLITICS (DIVD) (KSS) PUBLIC POLICY	3
Political Science (POL) Elective		3
Political Science Upper-Division Electives (POL 30000 or 40000 level) <sup>1</sup>		12
Minimum Total Credit Hours:		21

<sup>1</sup> POL 40980, POL 40981 and POL 40992 may be applied to meet the upper-division hour requirement. POL 40995 may be applied toward the upper-division hour requirement as approved by the department. POL 40996 may not be applied toward the upper-division hour requirement.

## Graduation Requirements

Minimum Minor GPA	Minimum Overall GPA
2.000	2.000

- Students must complete at least two upper-division (30000 or 40000 level) courses in the minor at Kent State on a graded basis (A-F).
- Minimum 6 credit hours in the minor must be upper-division coursework (30000 and 40000 level).
- Minimum 6 credit hours in the minor must be outside of the course requirements for any major or other minor the student is pursuing.
- Minimum 50 percent of the total credit hours for the minor must be taken at Kent State (in residence).

## Political Science - Ph.D.

**College of Arts and Sciences**  
Department of Political Science  
302 Bowman Hall  
Kent Campus  
330-672-2060  
polisci@kent.edu

[www.kent.edu/polisci](http://www.kent.edu/polisci)

## Description

The Ph.D. degree in Political Science prepares students for research and teaching careers in higher education and for research-based careers in fields that are focused on political, economic and social issues. The degree program is broadly focused on the dynamics surrounding representation, equity, conflict, human rights, development and conflict resolution. Students develop their own research questions in an interdisciplinary and theoretically sophisticated way. Students work with faculty mentors throughout their degree program and often develop and present their own research at regional or national conferences.

The Political Science major comprises the following concentrations, from which students select two: PLEASE PROVIDE A DESCRIPTION

- American Politics and Policy
- Conflict Analysis and Management
- Transnational and Comparative Politics

### Fully Offered At:

- Kent Campus

## Admission Requirements

- Bachelor's degree or higher from an accredited college or university for unconditional admission
- Minimum 3.000 GPA on a 4.000 point scale for unconditional admission
- Official transcript(s)
- GRE scores
- Goal statement
- Writing sample
- Three letters of recommendation
- English language proficiency - all international students must provide proof of English language proficiency (unless they meet specific exceptions) by earning one of the following:
  - Minimum 550 TOEFL PBT score (paper-based version)
  - Minimum 79 TOEFL IBT score (Internet-based version)
  - Minimum 77 MELAB score
  - Minimum 6.5 IELTS score
  - Minimum 58 PTE score
  - Minimum 110 Duolingo English Test score

For more information about graduate admissions, please visit the Graduate Studies admission website. For more information on international admission, visit the Office of Global Education's admission website.

## Program Learning Outcomes

Graduates of this program will be able to:

1. Understand the theoretical underpinnings of political science and be able to address real world issues and problems.
2. Attain research and methodological skills that will further their research and make them attractive to future employers.

3. Effectively communicate research findings and implications to a range of audiences including scholars, practitioners and citizens.

## Program Requirements

### Major Requirements

Code	Title	Credit Hours
<b>Major Requirements</b>		
POL 70002	SCOPE AND EPISTEMOLOGY	3
POL 70003	QUANTITATIVE METHODS I	3
POL 70004	QUANTITATIVE METHODS II	3
POL 70010	QUALITATIVE RESEARCH METHODS	3
POL 71094	COLLEGE TEACHING IN POLITICAL SCIENCE	1
POL 81199	DISSERTATION I <sup>1</sup>	30
Additional Approved Electives for Post-Baccalaureate Students		0-23
Advanced Research Methods, choose from the following:		3
EVAL 85518	ADVANCED QUALITATIVE RESEARCH IN EDUCATIONAL SERVICES	
POL 70304	ANALYTIC TECHNIQUES OF POLICY-MAKING	
POL 70379	PROGRAM EVALUATION I	
POL 79091	SEMINAR:QUANTITATIVE METHODS	
SBS 83011	QUALITATIVE DATA ANALYSIS	
SOC 72221	ADVANCED QUALITATIVE METHODS IN SOCIOLOGY	
<b>Concentrations</b>		
Choose two from the following: <sup>2</sup>		21
American Politics and Policy		
Conflict Analysis and Management		
Transnational and Comparative Politics		
<b>Minimum Total Credit Hours for Post-Baccalaureate Students</b>		<b>90</b>
<b>Minimum Total Credit Hours for Post-Master's Students</b>		<b>67</b>

<sup>1</sup> Dissertation is required. Doctoral students must complete additional approved electives, including research, to reach a minimum of 30 credit hours post-master's (or equivalent advanced degree) or a minimum of 60 credit hours post-bachelor's prior to enrolling in POL 81199. Upon completion of course requirements and candidacy exams, doctoral students must register for POL 81199 for two semesters for a total of 30 credit hours, and thereafter POL 81299, until all requirements for the degree have been met.

<sup>2</sup> Students select two concentrations. For the first concentration, students complete one Proseminar or Status of the Field course and three elective courses (12 credit hours). For the second concentration, students complete one Proseminar or Status of the Field course and two elective courses (9 credit hours).

## American Politics and Policy Concentration Requirements

Code	Title	Credit Hours
<b>Concentration Requirements</b>		
POL 70101	STATUS OF THE FIELD: AMERICAN POLITICS AND POLICY	3
Concentration Electives, choose from the following:		6-9
POL 70102	AMERICAN POLICY PROCESS	
POL 70103	CONGRESS, THE PRESIDENCY AND THE COURTS	
POL 70105	FEDERALISM AND STATE POLICYMAKING	
POL 70106	URBAN POLICY AND POLITICS	
POL 70108	AMERICAN POLITICAL BEHAVIOR	
POL 70191	SEMINAR IN AMERICAN POLITICS AND POLICY	
Advisor-Approved Electives		
Minimum Total Credit Hours:		9-12

## Conflict Analysis and Management Concentration Requirements

Code	Title	Credit Hours
<b>Concentration Requirements</b>		
POL 70901	PROSEMINAR IN CONFLICT ANALYSIS AND MANAGEMENT	3
Concentration Electives, choose from the following:		6-9
POL 70507	CONFLICT TRANSFORMATION AND RECONCILIATION	
POL 70902	POWER, CONFLICT AND THE POLITICS OF GENDER	
POL 70903	IDENTITY DRIVEN CONFLICTS	
POL 70904	SOCIAL MOVEMENTS AND NONVIOLENT CONFLICTS	
POL 70906	POLITICAL VIOLENCE	
POL 70907	TERRORISM AND HUMAN RIGHTS	
POL 70991	SEMINAR IN CONFLICT ANALYSIS AND MANAGEMENT	
Advisor-Approved Electives		
Minimum Total Credit Hours:		9-12

## Transnational and Comparative Politics Concentration Requirements

Code	Title	Credit Hours
<b>Concentration Requirements</b>		
POL 70501	STATUS OF THE FIELD: TRANSNATIONAL AND COMPARATIVE POLITICS AND POLICY	3
Concentration Electives, choose from the following:		6-9
POL 70502	GLOBAL GOVERNANCE	
POL 70503	FOREIGN POLICY ANALYSIS	
POL 70510	POLITICS OF DEVELOPMENT	
POL 60511	INTERNATIONAL POLITICAL ECONOMY	
POL 70574	STRATEGIC PLANNING	
POL 70511	INTERNATIONAL POLITICAL ECONOMY	
POL 70591	SEMINAR IN TRANSNATIONAL AND COMPARATIVE POLITICS AND POLICY	

Advisor-Approval Electives

Minimum Total Credit Hours:

9-12

## Graduation Requirements

- Passage of one field paper in the first area of concentration
- Written and orally defense of both a dissertation prospectus and dissertation

## Residency Requirement

Students must spend two consecutive semesters pursuing doctoral studies.

## Public Administration - M.P.A.

### College of Arts and Sciences

Department of Political Science

302 Bowman Hall

Kent Campus

330-672-2060

polisci@kent.edu

www.kent.edu/polisci/mpa

## Description

The Master of Public Administration degree in Public Administration is designed for students wishing to become policy analysts, managers and executives within public and nonprofit organizations. The curriculum provides students with a broad foundation in public and nonprofit management, including the scope and history of public administration, administrative theory, ethical behavior in public management, public financial management, program evaluation, methods, personnel management and information technology management.

The M.P.A. degree can be completed in two years by taking two courses each term, including summers. Courses are offered in an asynchronous online format in back-to-back seven-week sessions. Courses utilize a mix of web-based instruction supported by audio and video technologies direct to the respective student's home.

## Fully Offered At:

- Online

## Accreditation

The M.P.A. degree in Public Administration is accredited by the Network of Schools of Public Policy, Affairs and Administration (NASPAA).

## Admission Requirements

- Bachelor's degree from an accredited college or university for unconditional admission
- Minimum 3.000 undergraduate GPA on a 4.000 point scale<sup>1</sup> for unconditional admission
- Official transcript(s)
- LSAT, MCAT or GMAT scores
- Goal statement



- Current résumé
- Writing sample (single-authored paper or manuscript completed in undergraduate or graduate school that exemplifies the applicant's critical thinking skills)
- Three letters of recommendation from faculty or individuals familiar with the applicant's ability to do graduate-level work
- English language proficiency - all international students must provide proof of English language proficiency (unless they meet specific exceptions) by earning one of the following:
  - Minimum 550 TOEFL PBT score (paper-based version)
  - Minimum 79 TOEFL IBT score (Internet-based version)
  - Minimum 77 MELAB score
  - Minimum 6.5 IELTS score
  - Minimum 58 PTE score
  - Minimum 110 Duolingo English Test score

For more information about graduate admissions, please visit the Graduate Studies admission website. For more information on international admission, visit the Office of Global Education's admission website.

<sup>1</sup> In some cases, applicants with a GPA below 3.0 may be admitted to the program conditionally provided other supporting materials are strong.

## Program Requirements

### Major Requirements

Code	Title	Credit Hours
PADM 60371	GRADUATE INTRODUCTION TO PUBLIC ADMINISTRATION	3
PADM 60375	PUBLIC PERSONNEL ADMINISTRATION	3
PADM 60377	PUBLIC BUDGETING AND FINANCIAL MANAGEMENT	3
PADM 60379	PROGRAM EVALUATION I	3
PADM 60381	METHODS IN PUBLIC ADMINISTRATION	3
PADM 60386	PUBLIC SECTOR INFORMATION TECHNOLOGY MANAGEMENT	3
PADM 60392	INTERNSHIP IN PUBLIC ADMINISTRATION <sup>1</sup>	0-3
PADM 60470	PERSONAL ACCOUNTABILITY IN THE PUBLIC SERVICE	3
PADM 60475	CAPSTONE SEMINAR	3
PADM 60574	STRATEGIC PLANNING	3
Major Electives <sup>2</sup>		9
Minimum Total Credit Hours:		36

<sup>1</sup> Students without substantive full-time administrative experience in a public service organization ('pre-service students') must complete minimum 3 credit hours of internship; they will earn the M.P.A. degree with a total 39 credit hours. Students with substantive full-time administrative experience in a public service organization ('in-service students') may be waived from the internship requirement with the approval of the M.P.A. coordinator. Pre-service students or students wishing to gain experience in a new area will also be placed in an agency for at least 300 hours of experience.

<sup>2</sup> Student chose elective courses in consultation with an academic advisor. Elective coursework outside of the program may be developed based upon the student's needs and advisor approval.

## Washington Program in National Issues

**College of Arts and Sciences**  
 Department of Political Science  
 302 Bowman Hall  
 Kent Campus  
 330-672-2060  
 polisci@kent.edu  
 www.kent.edu/polisci

### Description

The Washington Program in National Issues was established in 1973 through the initiative of Washington-based alumni who sought to provide Kent State University undergraduates with a unique living and learning experience in the nation's capital.

The purpose of the program is to accomplish the following:

- Facilitate learning about the U.S. political system through briefings with government officials and other working professionals in Washington, DC
- Develop a personal understanding of the demands and rewards of the professional work world through an internship experience
- Encourage initiative through individualized research, which may involve resources at the Library of Congress, among other sit

Students participate in internships—in places such as Capitol Hill, in a governmental agency or with an interest group—and attend seminars. The program requires a semester-long residence in the Washington, DC, area. Alumni in the nation's capital continue to support the program by introducing students to the culture and serving as consultants and mentors.

### Fully Offered At:

- Washington, D.C.

## Admission Requirements

The program is open to junior and senior students from all academic disciplines with a minimum 2.750 overall GPA.

## Program Requirements

Code	Title	Credit Hours
<b>Program Requirementns</b>		
POL 40981	WASHINGTON PROGRAM IN NATIONAL ISSUES (ELR)	15
Minimum Total Credit Hours:		15

## Department of Psychological Sciences

College of Arts and Sciences

Department of Psychological Sciences  
 144 Kent Hall  
 Kent Campus  
 330-672-2166  
 psych@kent.edu  
 www.kent.edu/psychology

## Undergraduate Programs

- Neuroscience - B.S.
- Psychology - B.A.
- Psychology - B.S.

## Minors

- Psychology

## Graduate Programs

- Clinical Psychology - M.A.
- Clinical Psychology - Ph.D.
- Psychological Science - M.A.
- Psychological Science - Ph.D.

## Department of Psychological Sciences Faculty

- Bartholomew, Christie L. (2003), Assistant Professor, Ph.D., Kent State University, 2014
- Ben-Porath, Yossef S. (1990), Professor, Ph.D., University of Minnesota, Twin Cities, 1989
- Betz, Brian D. (1991), Associate Professor, Ph.D., Ohio University, 1987
- Blasiman, Rachael N. (2010), Associate Professor, Ph.D., Case Western Reserve University, 2010
- Ciesla, Jeffrey (2007), Associate Professor, Ph.D., University at Albany, SUNY, 2004
- Ciesla, Shannon N. (2007), Assistant Professor, Ph.D., Kent State University, 2013
- Coifman, Karin G. (2010), Associate Professor, Ph.D., Columbia University, 2008
- Cremeans-Smith, Julie K. (1998), Associate Professor, Ph.D., Kent State University, 2004
- DeCapito, Alberta L. (1985), Senior Lecturer
- Dunlosky, John T. (2004), Professor, Ph.D., University of Washington, 1993
- Evey, Julie A. (2018), Assistant Professor, Ph.D., Kent State University, 1998
- Flessner, Christopher A. (2011), Associate Professor, Ph.D., University of Wisconsin, Milwaukee, 2008
- Folk, Jocelyn R. (1999), Associate Professor, Ph.D., University of South Carolina, Columbia, 1997
- Fountain, Stephen B. (1984), Professor, Ph.D., The Johns Hopkins University, 1981
- Fox-Cardamone, Donna L. (1994), Professor, Ph.D., Miami University, 1990
- Fresco, David M. (2001), Professor, Ph.D., University of North Carolina, Chapel Hill, 1999
- Galati, Ashley R. (2013), Associate Professor, Ph.D., University of Kentucky, 2013
- Gere, Judith (2013), Associate Professor
- Grau, Josefina M. (1994), Associate Professor, Ph.D., University of Illinois, Chicago, 1992
- Gunstad, John J. (2005), Professor, Ph.D., Ohio University, 2002
- Himmelstein, Mary S. (2019), Assistant Professor
- Hughes, Joel W. (2003), Professor, Ph.D., The Ohio State University, 2001
- Jasnow, Aaron (2011), Associate Professor, Ph.D., Georgia State University, 2002
- Jones, Bryan A. (2010), Associate Professor, Ph.D., State University of New York, Stony Brook, 2007
- Joynes, Robin L. (2000), Associate Professor, Ph.D., Texas A&M University, Main Campus, 1998
- Keiller, Scott W. (1989), Assistant Professor, Ph.D., Kent State University, 1997
- Larwin, David A. (1985), Senior Lecturer, M.A., Kent State University, 1989
- Lechner, William (2017), Assistant Professor, Ph.D., Oklahoma State University, 2015
- Merriman, William E. (1985), Professor, Ph.D., University of Minnesota, Twin Cities, 1984
- Miller, Eric D. (1999), Associate Professor, Ph.D., University of Iowa, 1999
- Moore, Zachariah (2003), Assistant Professor, Ph.D., Kent State University, 2006
- Neal-Barnett, Angela M. (1989), Professor, Ph.D., DePaul University, 1988
- Rawson, Katherine A. (2004), Professor, Ph.D., University of Colorado, Boulder, 2004
- Sato, Amy F. (2012), Associate Professor, Ph.D., University of Wisconsin, Milwaukee, 2009
- Sciartelli, Sharon M. (2007), Professor, Ph.D., Kent State University, 1995
- Sefcek, Jon A. (2011), Associate Professor, Ph.D., University of Arizona, 2007
- Shepherd, James B. (1986), Assistant Professor, Ph.D., Kent State University, 1996
- Spitznagel, Mary Beth (2009), Associate Professor, Ph.D., Ohio University, 2003
- Tabak, Melanie A. (2003), Assistant Professor, Ph.D., Kent State University, 2008
- Taber, Jennifer M. (2016), Assistant Professor
- Thompson, Clarissa A. (2014), Associate Professor, Ph.D., The Ohio State University, 2008
- Tkacz, Sharon (1993), Associate Professor, Ph.D., Bowling Green State University, 1981
- Tomich, Patricia L. (1994), Associate Professor, Ph.D., Kent State University, 2000
- Updegraff, Alanna S. (2012), Associate Professor, Ph.D., University of California, Los Angeles, 2003
- Updegraff, John A. (2004), Professor, Ph.D., University of California, Los Angeles, 2002
- Van Dulmen, Manfred H. (2004), Professor & Interim Associate Provost, Ph.D., University of Minnesota, Twin Cities, 2001

- Was, Christopher A. (2005), Associate Professor, Ph.D., University of Utah, 2005
- Weigold, Arne (2019), Associate Professor, Ph.D., Texas Tech University, 2008
- Wildman, Beth G. (1982), Professor, Ph.D., University of North Carolina, Chapel Hill, 1977
- Zaragoza, Maria S. (1984), Professor & Department Chair, Ph.D., Johns Hopkins University, 1984

## Neuroscience (NEUR)

### NEUR 10100 SEMINAR IN NEUROSCIENCE 1 Credit Hour

Course provides an overview of the neuroscience field, including areas of neuroscience research, foundational principles in neuroscience, current questions and techniques, career possibilities and examples of research being conducted by neuroscience faculty.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 1 lecture

**Grade Mode:** Satisfactory/Unsatisfactory

### NEUR 30100 NEUROSCIENCE I 3 Credit Hours

(Crosslisted with BSCI 30100) Course covers basic principles in neuroscience, from the cellular to systems levels. Provides students a basic understanding of how the nervous system is organized, electrophysiology properties of neurons, sensory systems and motor pathways.

**Prerequisite:** BSCI 30140.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

### NEUR 30200 NEUROSCIENCE II 3 Credit Hours

(Cross-listed with BSCI 30200) Course builds off of the principles taught in Neuroscience I by providing more depth and breadth to the functioning of the nervous system. Course provides students a more complete understanding of the neuroanatomy, neurophysiology and neural circuitry involved in sensory processing, motor control and higher order cognitive functioning.

**Prerequisite:** NEUR 30100 or BSCI 30100.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

### NEUR 30300 EXPERIMENTAL METHODS IN NEUROSCIENCE 1 Credit Hour

(Cross-listed with BSCI 30300) Accompanying laboratory for NEUR 30200 or BSCI 30200. Course provides a greater depth of understanding into and hand-on experience with the principles discussed in NEUR 30200 or BSCI 30200. Course provides students a full understanding in the major research techniques used in neuroscience. The major topics covered include: electrophysiology, neuroanatomy, learning and memory, the neuromuscular junction and sensory perception. .

**Prerequisite:** NEUR 30100 or BSCI 30100 with minimum C grade.

**Pre/corequisite:** NEUR 30200 or BSCI 30200.

**Schedule Type:** Laboratory

**Contact Hours:** 3 lab

**Grade Mode:** Standard Letter

### NEUR 40192 INTERNSHIP IN NEUROSCIENCE (ELR) 3-12 Credit Hours

Work experience and training in neuroscience under the supervision of appropriate personnel in a government agency, nonprofit organization or business.

**Prerequisite:** NEUR 30200; and special approval.

**Schedule Type:** Practical Experience

**Contact Hours:** 9-36 other

**Grade Mode:** Standard Letter

**Attributes:** Experiential Learning Requirement

### NEUR 40195 SPECIAL TOPICS IN NEUROSCIENCE 1-3 Credit Hours

Topics in neuroscience vary per course offering.

**Prerequisite:** NEUR 30200.

**Schedule Type:** Laboratory, Lecture, Combined Lecture and Lab

**Contact Hours:** 1-3 lecture, 2-6 lab

**Grade Mode:** Standard Letter

### NEUR 40196 INDIVIDUAL INVESTIGATION IN NEUROSCIENCE 1-3 Credit Hours

Research study under the guidance of a neuroscience faculty member.

**Prerequisite:** NEUR 30200

**Schedule Type:** Laboratory

**Contact Hours:** 3-9 lab

**Grade Mode:** Standard Letter

## Psychology (PSYC)

### PSYC 11762 GENERAL PSYCHOLOGY (DIVD) (KSS) 3 Credit Hours

Introduction to the scientific approach to understanding human behavior and mental processes such as emotions, perceptions and cognitions.

Topics may include personality, social and environmental factors, biological aspects of behavior and the experience of emotion and psychological disorders.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Diversity Domestic, Kent Core Social Sciences, TAG Social and Behavioral Sciences, Transfer Module Social Sciences

### PSYC 20651 CHILD PSYCHOLOGY (DIVD) (KSS) 3 Credit Hours

A review of the data, concepts and theories of psychology that contribute to the understanding of child development from conception to age 14.

**Prerequisite:** PSYC 11762.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Diversity Domestic, Kent Core Social Sciences, TAG Social and Behavioral Sciences, Transfer Module Social Sciences

### PSYC 21211 PSYCHOLOGY OF EVERYDAY LIFE (DIVD) (KSS) 3 Credit Hours

A review of theories, concepts and data that contribute to the understanding of human adjustment. Topics may include the following: personality, stress and coping, transitions from adolescence to adulthood, psychological disorders and psychotherapy.

**Prerequisite:** PSYC 11762.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Diversity Domestic, Kent Core Social Sciences, Transfer Module Social Sciences

**PSYC 21621 QUANTITATIVE METHODS IN PSYCHOLOGY I 3 Credit Hours**

Application of quantitative, statistical methods in psychological research. Descriptive and inferential methods (includes ANOVA, t-test and correlation).

**Prerequisite:** PSYC 11762.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PSYC 22221 MULTICULTURAL PSYCHOLOGY (DIVD) 3 Credit Hours**

Examination of areas of psychology upon which diversity issues have a bearing and focused study of psychological issues relevant to African-American, Asian-American, Hispanic/Latino American and American Indian groups.

**Prerequisite:** PSYC 11762.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Diversity Domestic, Transfer Module Social Sciences

**PSYC 30005 CAREER PATHWAYS IN PSYCHOLOGY 1 Credit Hour**

Designed to equip students with a better understanding of the career pathways available to them in psychology at the bachelor's and graduate level. Using a combination of videos, articles and activities, students learn about many different topics and strategies related to careers and the graduate school application process.

**Prerequisite:** PSYC 11762.

**Schedule Type:** Lecture

**Contact Hours:** 1 lecture

**Grade Mode:** Standard Letter

**PSYC 30111 FORENSIC PSYCHOLOGY 3 Credit Hours**

Surveys major areas of forensic psychology, which focuses on the application of the science and profession of psychology to legal settings. Topics include roles and responsibilities of forensic psychologists, forensic assessment, psychological theories of criminal behavior, law enforcement psychology and eyewitness testimony.

**Prerequisite:** PSYC 11762.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PSYC 30651 ADOLESCENT PSYCHOLOGY 3 Credit Hours**

Students review the theories, concepts and data that contribute to the understanding of the physical, intellectual, educational, personality and social development of adolescents in contemporary society.

**Prerequisite:** PSYC 11762.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** TAG Social and Behavioral Sciences

**PSYC 30652 SOCIAL AND PERSONALITY DEVELOPMENT 3 Credit Hours**

Processes and findings in social and personality development, with a focus on childhood and adolescence. Students examine individual differences, as well as developmental changes, in social function and personality.

**Prerequisite:** PSYC 11762; and HDFS 24012 or PSYC 20651.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PSYC 30655 CHILDREN'S THINKING 3 Credit Hours**

Focuses on how children's cognitive processes and mental representations change from infancy to early adulthood. Theoretical claims, empirical findings and methodological issues are critically evaluated. Topics include children's visual and auditory perception, language and literacy, learning and memory, mathematical and spatial thinking, logical and scientific reasoning, problem solving, theory of mind and social cognition.

**Prerequisite:** PSYC 11762; and HDFS 24012 or PSYC 20651.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PSYC 30656 PSYCHOLOGY OF AGING 3 Credit Hours**

Exploration of basic research and theory on the psychological consequences of aging and psychological factors that affect the behavior of older persons.

**Prerequisite:** PSYC 11762.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PSYC 30821 PSYCHOLOGY OF MOTIVATION 3 Credit Hours**

Factors that provide the energy and direction for behaviors, emotions and cognitive processes. Seeks to answer the question 'why' concerning the things people do, feel and think. A survey approach is used to include both the traditional and newly emerging concepts in motivation.

**Prerequisite:** PSYC 11762.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PSYC 30822 SPORT PSYCHOLOGY 3 Credit Hours**

Introduction to the use of psychological theories and interventions in sport and performance settings. Can include topics such as performance anxiety, maintaining focus under pressure, motivation, leadership, among others.

**Prerequisite:** PSYC 11762.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PSYC 31141 PERCEPTION 3 Credit Hours**

Investigates how humans detect, organize and interpret information from the environment. Considers how both biological and psychological process create and influence our perception of the world.

**Prerequisite:** PSYC 11762.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PSYC 31282 PERSONALITY 3 Credit Hours**

A review of the data, concepts and theories of psychology that contribute to the understanding of personality.

**Prerequisite:** PSYC 11762.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** TAG Social and Behavioral Sciences

**PSYC 31498 UNDERGRADUATE RESEARCH (ELR) 1-6 Credit Hours**  
(Repeatable for maximum 16 credit hours) Individual research open to qualified students.

**Prerequisite:** PSYC 11762; and special approval.

**Schedule Type:** Research

**Contact Hours:** 1-6 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**Attributes:** Experiential Learning Requirement

**PSYC 31532 SOCIAL PSYCHOLOGY 3 Credit Hours**

Study of environmental/situational influences on a person's thoughts, behaviors and feelings-focus on topics such as aggression, attitudes and behaviors, conformity, helping, personal relationships and social cognition.

**Prerequisite:** PSYC 11762.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** TAG Social and Behavioral Sciences

**PSYC 31574 RESEARCH METHODS IN PSYCHOLOGY (ELR) 3 Credit Hours**

The rationale, logic and procedures of scientific research in psychology with an emphasis on measurement, causal inference and research design.

**Prerequisite:** PSYC 11762 and PSYC 21621.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Experiential Learning Requirement

**PSYC 31634 ANIMAL COGNITION 3 Credit Hours**

Focuses on the nature of cognition and intelligence in nonhuman animals. Topics include animal studies of perception and attention, associative learning, memory, spatial cognition, concept formation, reasoning and language in nonhuman animals.

**Prerequisite:** PSYC 11762.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PSYC 31684 QUANTITATIVE METHODS IN PSYCHOLOGY II 3 Credit Hours**

Small sample theory, analysis of variance, linear regression and nonparametric statistics (e.g. Chi Square). Course may include qualitative analyses and computer-based data analyses with SPSS software.

**Prerequisite:** PSYC 21621.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PSYC 31773 INDUSTRIAL PSYCHOLOGY 3 Credit Hours**

Application of principles, facts and theories of psychology to people at work. Includes motivation and satisfaction at work, personnel selection and placement, training and development, performance appraisal, organizational development, quality of work life, ergonomics and consumer psychology.

**Prerequisite:** PSYC 11762.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PSYC 40111 ABNORMAL PSYCHOLOGY 3 Credit Hours**

Survey of the definitions as well as the biological, psychological and sociocultural causes of various psychological disorders. Illustrations of these disorders with cases. Overview of treatment approaches to these disorders may be included.

**Prerequisite:** PSYC 11762.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** TAG Social and Behavioral Sciences

**PSYC 40112 PSYCHOLOGICAL DISORDERS OF CHILDHOOD AND ADOLESCENCE 3 Credit Hours**

Covers the biological, psychological and socio-cultural factors influencing the development of psychological disorders in children and adolescents. Emphasis is placed on conceptual and research issues and the application of knowledge to understanding diagnosis and case studies of specific disorders.

**Prerequisite:** PSYC 11762; and HDFS 24012 or PSYC 20651 or

PSYC 30651; and junior or senior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PSYC 40231 PSYCHOLOGICAL ASSESSMENT 3 Credit Hours**

Introduction to psychometrics and test theory. Use and basic interpretation of intellectual and personality tests. Skills in using tests at a professional level not given.

**Prerequisite:** PSYC 11762 and PSYC 21621.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PSYC 40382 PEDIATRIC PSYCHOLOGY 3 Credit Hours**

(Slashed with PSYC 50382 and PSYC 70382) Survey of the current topics and research in the field of pediatric (or child health) psychology. Includes a general overview of a number of pediatric psychology topics, including opportunities for more focused study of specific conditions and illnesses. Class sessions cover a mix of general issues (e.g., systems, adherence, diversity, stress and coping), descriptions of clinical roles in pediatric psychology (e.g., consultation liaison, multidisciplinary teams) and specific pediatric conditions with a focus on understanding the role of pediatric psychology.

**Prerequisite:** PSYC 20651; and junior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PSYC 40383 INTRODUCTION TO CLINICAL PSYCHOLOGY 3 Credit Hours**

Application of psychological principles and techniques to the problems of the individual. Course is designed to introduce the field of clinical psychology, including models of understanding abnormal behavior, treatment of individuals and ethics and professional issues.

**Prerequisite:** PSYC 11762.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter



**PSYC 40445 COGNITIVE PSYCHOLOGY 3 Credit Hours**

Covers the mental processes that underline human thought and behavior, such as attention, memory, comprehension, reasoning, problem-solving and language. Considers established and current theoretical models, research methods and experimental results.

**Prerequisite:** PSYC 11762.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PSYC 40446 COGNITIVE NEUROSCIENCE 3 Credit Hours**

Covers the cognitive and neural processes that underlie vision, attention, spatial processing, memory, language, social processes, executive functioning and action. Introduces basic brain structure and the behavioral and functional imaging techniques used to study the brain bases of cognition. Data from patients with neurological disorders such as Alzheimer's, aphasia, amnesia are also examined.

**Prerequisite:** PSYC 11762.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PSYC 40461 PSYCHOLOGY OF LANGUAGE 3 Credit Hours**

Investigates psychological processes involved in language production, comprehension and development. Within each broad area emphasis is on theories, psychological experiments, key findings and the relationships between theory, method and data.

**Prerequisite:** PSYC 11762 and PSYC 40445.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PSYC 40625 DEVELOPMENT OF GENDER ROLE AND IDENTITY (DIVD) 3 Credit Hours**

A life-span, developmental model is used to analyze the changes that occur with age in gender-related role performance and identity formation.

**Prerequisite:** PSYC 11762.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Diversity Domestic

**PSYC 40974 HISTORY OF PSYCHOLOGY 3 Credit Hours**

(Slashed with PSYC 50974) Course examines the historical context, influences and individuals instrumental in the development of psychology. Course organization is designed to compare and contrast systems, theories and fundamental issues with which psychologists have concerned themselves in past and contemporary stages of the science.

**Prerequisite:** PSYC 11762; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PSYC 41043 BASIC LEARNING PROCESSES 3 Credit Hours**

Examination of basic principles of Pavlovian conditioning, instrumental conditioning, animal learning and memory processes and animal cognition. Emphasis on major empirical phenomena derived from research with animals with reference to related psychological processes in humans.

**Prerequisite:** PSYC 11762.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PSYC 41363 BIOPSYCHOLOGY 3 Credit Hours**

Rigorous course covering the relationship between brain and behavior at the physiological, chemical and anatomical levels. Focuses on the association between the central nervous system and various processes and behaviors such as learning, emotions, neurological disorders and psychopathology. Students with no background or coursework in biological science should plan to devote considerable time to mastering the relevant concepts for this course (e.g., structure and function of neurons).

**Prerequisite:** PSYC 11762; and sophomore standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PSYC 41364 DRUGS AND BEHAVIOR 3 Credit Hours**

Provides an overview of drug taking in society, the actions of drugs in the body and the effects of drugs on behavior. Focus is on drugs and the nervous system, psychopharmacology and actions and side effects of such drugs as alcohol, opiates, stimulants, marijuana, hallucinogens, depressants and performance-enhancing drugs. Particular focus is on medications for psychiatric disorders, abuse-potential and the causes of addiction, dependence and relapse.

**Prerequisite:** PSYC 11762.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PSYC 41395 SPECIAL TOPICS IN CHILD PSYCHOLOGY 3 Credit Hours**

(Repeatable for credit)(Slashed with PSYC 51395 and PSYC 71395) In-depth examination of particular topics of current interest to faculty and students. Specialized areas of child psychology. Specific topic varies per course offering.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PSYC 41492 INTERNSHIP IN PSYCHOLOGY (ELR) 1-6 Credit Hours**

(Repeatable for credit) Application of psychological knowledge and skills in applied settings. Allows academic credit for participation as an intern at approved internship sites, including social service, non-profit agencies, government agencies and hospital settings.

**Prerequisite:** 9 credit hours of psychology courses; and minimum 3.000 overall GPA; and psychology major; and junior standing; and special approval.

**Schedule Type:** Practical Experience

**Contact Hours:** 7-42 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**Attributes:** Experiential Learning Requirement

**PSYC 41495 SPECIAL TOPICS IN PSYCHOLOGY 1-3 Credit Hours**

(Repeatable for credit) In-depth examination of particular topics of current interest to faculty and students. Specialized areas of research theory or methodology may be covered. Specific topics announced.

**Prerequisite:** PSYC 11762.

**Schedule Type:** Lecture

**Contact Hours:** 1-3 lecture

**Grade Mode:** Standard Letter

**PSYC 41498 INDIVIDUAL INVESTIGATION (ELR) 1-6 Credit Hours**  
(Repeatable for maximum 16 credit hours) Involves participation in empirical research, review of psychological literature and preparation of a paper or annotated bibliography.

**Prerequisite:** PSYC 11762; and special approval.

**Schedule Type:** Individual Investigation

**Contact Hours:** 1-6 other

**Grade Mode:** Standard Letter-IP

**Attributes:** Experiential Learning Requirement

**PSYC 41573 LABORATORY EXPERIENCE IN PSYCHOLOGICAL RESEARCH: SOCIAL/CLINICAL (WIC) 3 Credit Hours**

(Repeatable for credit) Intensive experience in the conduct, analysis and reporting of empirical research in social or clinical psychology. Specific content varies with instructor.

**Prerequisite:** PSYC 11762 and PSYC 21621 and PSYC 31574; and minimum 3.200 overall GPA.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Writing Intensive Course

**PSYC 41574 LABORATORY EXPERIENCE IN PSYCHOLOGICAL RESEARCH: COGNITIVE/LEARNING (WIC) 3 Credit Hours**

(Repeatable for credit) Intensive experience in the conduct, analysis and reporting of empirical research in cognitive psychology or human/animal learning. Specific content varies with instructor.

**Prerequisite:** PSYC 11762 and PSYC 21621 and PSYC 31574; and minimum 3.200 overall GPA; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Writing Intensive Course

**PSYC 41581 HEALTH PSYCHOLOGY 3 Credit Hours**

Role of psychological and social factors in health and illness, typically covering three general areas: (1) psychological factors affecting disease, (2) psychological and social consequences of illness and (3) psychotherapeutic interventions.

**Prerequisite:** PSYC 11762.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PSYC 41584 THE PSYCHOLOGY OF EXERCISE 3 Credit Hours**

Provides an introduction to exercise psychology, which is the application of psychology to promote, maintain, enhance and explain the parameters of exercise. Course introduces students to the cutting-edge research and practical application of exercise psychology. Topics include use of psychological theory to predict adoption and adherence to exercise behavior; social and personality influences on exercise behavior; research on effectiveness of various exercise interventions; and consequences of exercise, including mental health states such as depression and anxiety, emotional well-being, self-esteem, self-concept, health-related quality of life and cognition.

**Prerequisite:** PSYC 11762.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PSYC 41595 SPECIAL TOPICS IN COUNSELING CAREERS 3 Credit Hours**

(Repeatable for credit)(Slashed with PSYC 51595 and PSYC 71595) In-depth examination of particular topics of current interest to faculty and students. Specialized areas of psychology relevant to counseling careers. Topic varies per course offering.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PSYC 41980 RESEARCH WRITING IN PSYCHOLOGY (WIC) 1 Credit Hour**

Writing-intensive course taken in conjunction with PSYC 31574.

**Pre/corequisite:** PSYC 31574.

**Schedule Type:** Lecture

**Contact Hours:** 1 lecture

**Grade Mode:** Standard Letter

**Attributes:** Writing Intensive Course

**PSYC 41990 WRITING IN PSYCHOLOGY (WIC) 1 Credit Hour**

Writing-intensive course taken in conjunction with a 3-credit-hour, upper-division psychology course (may not be taken with PSYC 31498, PSYC 41498, PSYC 41573, PSYC 41574 or PSYC 41993).

**Prerequisite:** Special approval.

**Schedule Type:** Lecture

**Contact Hours:** 1 lecture

**Grade Mode:** Standard Letter

**Attributes:** Writing Intensive Course

**PSYC 41993 VARIABLE TITLE WORKSHOP IN PSYCHOLOGY 1-6 Credit Hours**

(Repeatable for credit) Specific topic varies per course offering.

**Prerequisite:** PSYC 11762; and special approval.

**Schedule Type:** Workshop

**Contact Hours:** 1-6 other

**Grade Mode:** Satisfactory/Unsatisfactory

**PSYC 42574 ADVANCED RESEARCH METHODS 3 Credit Hours**

Course helps students integrate information learned in previous courses to better understand the process of conducting research in the field of psychology. Through hands-on experiences, students use basic statistical analyses to answer hypotheses; review scientific literature and generate hypotheses; test hypotheses using a dataset; and present research findings.

**Prerequisite:** PSYC 31574.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PSYC 43001 CLINICAL NEUROANATOMY 3 Credit Hours**

(Slashed with PSYC 53001 and PSYC 73001)(Cross-listed with BMS 50701 and BMS 70701) Course examines the anatomical organization of the human brain, emphasizing functional aspects of various neural systems, neuroimaging and topics of clinical relevance. Students must have a conceptual understanding of central nervous system organization and memorization of specific neural structures and pathways, as well as knowledge of the impact of structure and systems dysfunction.

**Prerequisite:** Minimum 3.250 overall GPA; and junior standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PSYC 43002 CURRENT TECHNIQUES IN BEHAVIORAL NEUROSCIENCE 3 Credit Hours**

(Slashed with PSYC 53002 and PSYC 73002)(Cross-listed with BMS 50702 and BMS 70702) Course details current and advanced techniques used in behavioral neuroscience research. Emphasis is placed on understanding the theory behind each technique, and its use in understanding the neural mechanisms of behavior. Detailed protocols for each technique are also covered.

**Prerequisite:** Minimum B grade in BSCI 30140 or BSCI 30156 or BSCI 30520 or PSYC 41363; and minimum 3.250 overall GPA; and junior standing; and special approval from instructor.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PSYC 43003 NEURAL MECHANISMS OF LEARNING AND MEMORY 3 Credit Hours**

(Slashed with PSYC 53003 and PSYC 73003)(Cross-listed with BMS 50703 and BMS 70703) Course examines the neural and molecular mechanisms underlying learning and memory formation. Covers cellular mechanisms of learning, including long-term potentiation and basic electrophysiology in invertebrate and mammalian preps. Transcriptional and post-translational modifications required for learning and memory formation, genomic signaling and protein synthesis. Also covers structural changes of neurons associated with memory formation, and the different behavioral methods for studying memory.

**Prerequisite:** BSCI 30520 or PSYC 41363 with a minimum B grade; and minimum 3.250 overall GPA; and junior standing; and special approval from instructor.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PSYC 47385 BROKEN BRAINS: INTRODUCTION TO CLINICAL NEUROPSYCHOLOGY 3 Credit Hours**

Clinical neuropsychology is the study of brain-behavior relationships or the ways in which the brain allows people to think, feel and behave in their everyday life. Course introduces students to cutting-edge research into the inner workings of the brain in both healthy individuals and those with neurological disorders (e.g. Alzheimer's disease, brain injury, ADHD, bipolar disorder). Topics include organization of the brain; how people learn, pay attention and solve problems; brain plasticity; neurological disorders; and neuropsychological assessment.

**Prerequisite:** PSYC 11762.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PSYC 47387 NEUROPSYCHOPHARMACOLOGY 3 Credit Hours**

(Slashed with PSYC 57387 and PSYC 77387) Neuropsychopharmacology is the study of how drugs and other chemicals affect brain and behavior. Course introduces students to the behavioral effects of psychoactive/therapeutic drugs and neurotoxic chemicals in relation to their neural and molecular mechanisms of action. Covers general principles of neuropsychopharmacology; nervous system structure in relation to behavior and mind, brain and behavioral systems that are affected by different classes of drugs and toxic chemicals; and methods employed in neuropsychopharmacology research.

**Prerequisite:** PSYC 11762.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PSYC 50382 PEDIATRIC PSYCHOLOGY 3 Credit Hours**

(Slashed with PSYC 40382 and PSYC 70382) Survey of the current topics and research in the field of pediatric (or child health) psychology. Includes a general overview of a number of pediatric psychology topics, including opportunities for more focused study of specific conditions and illnesses. Class sessions cover a mix of general issues (e.g., systems, adherence, diversity, stress and coping), descriptions of clinical roles in pediatric psychology (e.g., consultation liaison, multidisciplinary teams) and specific pediatric conditions with a focus on understanding the role of pediatric psychology.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PSYC 50974 HISTORY OF PSYCHOLOGY 3 Credit Hours**

(Slashed with PSYC 40974) Course examines the historical context, influences and individuals instrumental in the development of psychology. Course organization is designed to compare and contrast systems theories and fundamental issues with which psychologists have concerned themselves in past and contemporary states of the science.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PSYC 51395 SPECIAL TOPICS IN CHILD PSYCHOLOGY 3 Credit Hours**

(Repeatable for credit)(Slashed with PSYC 41395 and PSYC 71395) In-depth examination of particular topics of current interest to faculty and students. Specialized areas of child psychology. Specific topic varies per course offering.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PSYC 51595 SPECIAL TOPICS IN COUNSELING CAREERS 3 Credit Hours**

(Repeatable for credit)(Slashed with PSYC 41595 and PSYC 71595) In-depth examination of particular topics of current interest to faculty and students. Specialized areas of psychology relevant to counseling careers. Topic varies per course offering.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PSYC 51993 VARIABLE TITLE WORKSHOP IN PSYCHOLOGY 1-6 Credit Hours**

(Repeatable for credit) Specific topic varies per course offering.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Workshop

**Contact Hours:** 1-6 other

**Grade Mode:** Satisfactory/Unsatisfactory

**PSYC 53001 CLINICAL NEUROANATOMY 3 Credit Hours**  
(Slashed with PSYC 43001 and PSYC 73001)(Cross-listed with BMS 50701 and BMS 70701) Course examines the anatomical organization of the human brain, emphasizing functional aspects of various neural systems, neuroimaging and topics of clinical relevance. Students must have a conceptual understanding of central nervous system organization and memorization of specific neural structures and pathways, as well as knowledge of the impact of structure and systems dysfunction.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PSYC 53002 CURRENT TECHNIQUES IN BEHAVIORAL NEUROSCIENCE 3 Credit Hours**

(Slashed with PSYC 43002 and PSYC 73002)(Cross-listed with BMS 50702 and BMS 70702) Course details current and advanced techniques used in behavioral neuroscience research. Emphasis is placed on understanding the theory behind each technique, and its use in understanding the neural mechanisms of behavior. Detailed protocols for each technique are also covered.

**Prerequisite:** Graduate standing; and special approval from instructor.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PSYC 53003 NEURAL MECHANISMS OF LEARNING AND MEMORY 3 Credit Hours**

(Slashed with PSYC 43003 and PSYC 73003)(Cross-listed with BMS 50703 and BMS 70703) Course examines the neural and molecular mechanisms underlying learning and memory formation. Covers cellular mechanisms of learning, including long-term potentiation and basic electrophysiology in invertebrate and mammalian preps. Transcriptional and post-translational modifications required for learning and memory formation, genomic signaling and protein synthesis. Also covers structural changes of neurons associated with memory formation, and the different behavioral methods for studying memory.

**Prerequisite:** Graduate standing; and special approval from instructor.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PSYC 57387 NEUROPSYCHOPHARMACOLOGY 3 Credit Hours**

(Slashed with PSYC 47387 and PSYC 77387) Neuropsychopharmacology is the study of how drugs and other chemicals affect brain and behavior. Course introduces students to the behavioral effects of psychoactive/therapeutic drugs and neurotoxic chemicals in relation to their neural and molecular mechanisms of action. Covers general principles of neuropsychopharmacology; nervous system structure in relation to behavior and mind, brain and behavioral systems that are affected by different classes of drugs and toxic chemicals; and methods employed in neuropsychopharmacology research.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PSYC 60105 DEVELOPMENTAL PSYCHOPATHOLOGY 3 Credit Hours**

(Slashed with PSYC 70105) Nature and theoretical explanations of various forms of psychopathology in children and adults. Students learn about the methods used to research psychopathology and understand contemporary controversies in the study of developmental psychopathology.

**Prerequisite:** Clinical psychology or psychological science major; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PSYC 60110 INTRODUCTION TO PSYCHOPATHOLOGY: CHILD 3 Credit Hours**

(Slashed with PSYC 70110) Introduction to psychopathology from a developmental perspective. Covers models of classification and specific disorders of childhood.

**Prerequisite:** Clinical psychology or psychological science major; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PSYC 60170 INTRODUCTION TO PSYCHOPATHOLOGY: ADULT 3 Credit Hours**

(Slashed with PSYC 70170) An examination of the etiology, symptomology and theoretical models of adult psychopathology.

**Prerequisite:** Clinical psychology or psychological science major; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PSYC 60192 INTEGRATION PRACTICUM 1-3 Credit Hours**

(Repeatable for credit) Integration of assessment, psychopathology and psychotherapy coursework. Emphasis on learning how to conceptualize cases in general and from differing theoretical perspectives.

**Prerequisite:** PSYC 60292 and PSYC 60792; and clinical psychology or psychological science major; and graduate standing.

**Schedule Type:** Lecture, Practical Experience

**Contact Hours:** 1-3 lecture

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**PSYC 60272 INTRODUCTION TO PSYCHOLOGICAL ASSESSMENT 3 Credit Hours**

(Slashed with PSYC 70272) Introduction to psychological assessment as a process for solving important clinical problems. Theoretical methodological and research issues are emphasized. Students become familiar with major psychological tests.

**Prerequisite:** Clinical psychology or psychological science major; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter



**PSYC 60273 ADVANCED PSYCHOLOGICAL ASSESSMENT: ADULT 3 Credit Hours**

(Slashed with PSYC 70273) Examines psychodiagnosis within a context of 'personality-as-a-coherent-whole.' Emphasizes an ideographic approach with a theoretical framework, which organizes and gives meaning to observations.

**Prerequisite:** PSYC 60272; and clinical psychology or psychological science major; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PSYC 60274 ADVANCED PSYCHOLOGICAL ASSESSMENT: CHILD 3 Credit Hours**

(Slashed with PSYC 70274) Interviewing, developmental and intellectual assessments, personality evaluations, behavioral assessments and assessment of special-child populations. Emphasis on the rationale and integration of research relevant to appropriate use and interpretation.

**Prerequisite:** PSYC 60272 and PSYC 60292; and clinical psychology or psychological science major; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PSYC 60275 BEHAVIORAL ASSESSMENT 3 Credit Hours**

(Slashed with PSYC 70275) Considers behavioral assessment from an empirical as well as an applied perspective. Intended for persons familiar with general assessment, psychopathology and psychotherapy issues.

**Prerequisite:** PSYC 60272 and PSYC 60292; and clinical psychology or psychological science major; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PSYC 60276 NEUROPSYCHOLOGICAL ASSESSMENT 3 Credit Hours**

(Slashed with PSYC 70276) Introduction to the conceptual foundations of neuropsychological assessment and practical knowledge in assessment procedures, methods of interpretation and differential diagnosis.

**Prerequisite:** Clinical psychology or psychological science major; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PSYC 60292 PSYCHOLOGICAL ASSESSMENT PRACTICUM 1-3 Credit Hours**

(Repeatable for credit) Applied aspects of material presented in PSYC 60272. Emphasis on administering, scoring and interpreting major assessment tools.

**Prerequisite:** Clinical psychology or psychological science major; and graduate standing.

**Corequisite:** PSYC 60272.

**Schedule Type:** Practical Experience

**Contact Hours:** 3 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**PSYC 60324 PROFESSIONAL ISSUES AND ETHICS IN CLINICAL PSYCHOLOGY 3 Credit Hours**

(Slashed with PSYC 70324) Review of professional concerns in the field, including training, ethics, client rights, economics, legal issues, relationship to other professions and professional organization and policy.

**Prerequisite:** Clinical psychology or psychological science major; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PSYC 60326 CLINICAL ASPECTS OF HEALTH PSYCHOLOGY 3 Credit Hours**

(Slashed with PSYC 70326) Consideration of psychosocial influences on health status that are relevant to the clinician. Attention is given to interventions on both individual and community levels. Emphasis on approaches to prevention treatment and public policy.

**Prerequisite:** Clinical psychology or psychological science major; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PSYC 60371 INTRODUCTION TO PSYCHOLOGICAL THERAPY 3 Credit Hours**

(Slashed with PSYC 70371) Introduction to psychotherapy, with special emphasis on psychodynamic and phenomenological approaches with theory, technique and major research findings considered.

**Prerequisite:** Clinical psychology or psychological science major; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PSYC 60375 COGNITIVE BEHAVIOR THERAPY 3 Credit Hours**

(Slashed with PSYC 70375) Empirical and clinical aspects of cognitive and behavioral interventions. Intended for students familiar with basic psychotherapy assessment and psychopathology issues.

**Prerequisite:** PSYC 60371 and PSYC 60292; and clinical psychology or psychological science major; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PSYC 60376 CHILD PSYCHOTHERAPY 3 Credit Hours**

(Slashed with PSYC 70376) Consideration of various aspects of child psychotherapy, including general issues, traditional therapies, behavior and cognitive behavior therapies and child therapy research. Emphasis on integration of theory, technique and research.

**Prerequisite:** PSYC 60371; and clinical psychology or psychological science major; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter



**PSYC 60395 ADVANCED TOPICS IN CLINICAL PSYCHOLOGY 1-6 Credit Hours**

(Repeatable for credit)(Slashed with PSYC 70395) Advanced-level consideration of selected content areas in assessment, psychotherapy psycho pathology professional issues and community psychology. Specific topic varies per course offering.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 1-6 lecture

**Grade Mode:** Standard Letter

**PSYC 60453 INTRODUCTION TO COGNITIVE PSYCHOLOGY 3 Credit Hours**

(Slashed with PSYC 70453) Information-processing approaches to human thought. Focus on processes used to transform store manipulate and retrieve sensory input. Topics include attention pattern recognition memory and language.

**Prerequisite:** Clinical psychology or psychological science major; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PSYC 60592 PRACTICUM IN DIAGNOSTIC INTERVIEWING 1-3 Credit Hours**

(Repeatable for maximum 3 credit hours) Covers skills clinical psychologists must possess to help clients, effectively work within the field, communicate effectively with peers and colleagues and excel as a clinical researcher. Provides a foundation of skills, knowledge and expertise necessary to competently conduct a diagnostic interview, and provides an introduction to the process of conceptualize a client's presenting problem(s).

**Prerequisite:** Clinical psychology or psychological science major; and graduate standing.

**Schedule Type:** Practical Experience

**Contact Hours:** 3-9 other

**Grade Mode:** Standard Letter-IP

**PSYC 60792 PSYCHOTHERAPY PRACTICUM 1-3 Credit Hours**

(Repeatable for credit) Basic training in applied aspects of psychotherapy. Through didactic and experiential methods, students learn basic listening and communication skills that are then applied to specific techniques, situations and issues.

**Prerequisite:** Clinical psychology or psychological science major; and graduate standing.

**Corequisite:** PSYC 60371.

**Schedule Type:** Practical Experience

**Contact Hours:** 3-9 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**PSYC 60895 ADVANCED TOPICS IN EXPERIMENTAL PSYCHOLOGY 1-6 Credit Hours**

(Repeatable for credit)(Slashed with PSYC 70895) Advanced-level consideration of selected content areas in experimental psychology. Specific topic varies per course offering.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 1-6 lecture

**Grade Mode:** Standard Letter

**PSYC 60950 HISTORY AND CONTEMPORARY SYSTEMS 3 Credit Hours**

(Slashed with PSYC 70950) Relationships between historical antecedents and the major contemporary systems and theories of psychology.

**Prerequisite:** Clinical psychology or psychological science major; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PSYC 61054 LEARNING AND CONDITIONING 3 Credit Hours**

(Slashed with PSYC 71054) Introduction to basic conditioning processes. Emphasis on Pavlovian and instrumental learning phenomena particularly as these are exemplified in animal models of behavior.

**Prerequisite:** Clinical psychology or psychological science major; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PSYC 61199 THESIS I 2-6 Credit Hours**

Thesis students must register for a total of 6 hours, 2 to 6 hours in a single semester distributed over several semesters if desired.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Masters Thesis

**Contact Hours:** 2-6 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**PSYC 61260 THEORIES OF PERSONALITY 3 Credit Hours**

(Slashed with PSYC 71260) Consideration of major theoretical orientations, including psychoanalysis, phenomenology and those stressing learning. Emphasis on principal concepts; deals less with research methods and findings.

**Prerequisite:** Clinical psychology or psychological science major; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PSYC 61299 THESIS II 2 Credit Hours**

Thesis students must continue registration each semester until all degree requirements are met.

**Prerequisite:** PSYC 61199; and graduate standing.

**Schedule Type:** Masters Thesis

**Contact Hours:** 2 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**PSYC 61350 PHYSIOLOGICAL PSYCHOLOGY 3 Credit Hours**

(Slashed with PSYC 71350) Neurophysiological, neurochemical and neuroanatomical factors in the control of cognitive processes motivation and behavior. Emphasis is on the broad coverage of major topics in the field.

**Prerequisite:** Clinical psychology or psychological science major; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PSYC 61498 RESEARCH 1-15 Credit Hours**

(Repeatable for credit) Research or individual investigation. Credits may be applied toward meeting degree requirements with department approval and when satisfactory grade is given.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Research

**Contact Hours:** 1-15 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**PSYC 61548 PSYCHOLOGY OF GENDER AND MINORITIES 3 Credit Hours**

(Slashed with PSYC 71548) Neurophysiological, neurochemical and neuroanatomical factors in the control of cognitive processes motivation and behavior. Emphasis is on the broad coverage of major topics in the field.

**Prerequisite:** Clinical psychology or psychological science major; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PSYC 61580 SOCIAL PSYCHOLOGY 3 Credit Hours**

(Slashed with PSYC 71580) Introduction to empirical research and theories on the psychological processes related to interpersonal and small group behavior.

**Prerequisite:** Clinical psychology or psychological science major; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PSYC 61651 QUANTITATIVE STATISTICAL ANALYSIS I 3 Credit Hours**

(Slashed with PSYC 71651) Review of univariate statistics and an introduction to using bivariate and multivariate statistics. Part one of a two-semester sequence on statistical analysis.

**Prerequisite:** Clinical psychology or psychological science major; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PSYC 61654 QUANTITATIVE STATISTICAL ANALYSIS II 3 Credit Hours**

(Slashed with PSYC 71654) Multivariate statistics for classifying individuals and variables. Additional topics include power/effect size and handling missing data. Part two of a two-semester sequence on statistical analysis.

**Prerequisite:** Clinical psychology or psychological science major; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PSYC 61685 CLINICAL RESEARCH METHODS 3 Credit Hours**

(Slashed with PSYC 71685) Consideration of research methodologies relevant to clinical psychology, with emphasis on strengths and weaknesses of research designs and issues related to collection and evaluation of data.

**Prerequisite:** Clinical psychology or psychological science major; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PSYC 61993 VARIABLE TITLE WORKSHOP IN PSYCHOLOGY 1-6 Credit Hours**

(Repeatable for maximum 6 credit hours) Workshop topic varies per course offering.

**Prerequisite:** Clinical psychology or psychological science major; and graduate standing.

**Schedule Type:** Workshop

**Contact Hours:** 1-6 other

**Grade Mode:** Satisfactory/Unsatisfactory

**PSYC 62392 CLINICAL PRACTICUM 1-3 Credit Hours**

(Repeatable for credit) Beginning practicum in psychological clinic involving selection, administration and evaluation of tests of ability and personality.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Practical Experience

**Contact Hours:** 1-3 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**PSYC 62492 ADVANCED PRACTICUM 1-3 Credit Hours**

(Repeatable for credit) Intensified experience in the diagnosis and treatment of specific disorders from the scientist-practitioner model.

**Prerequisite:** PSYC 60192 and PSYC 60292 and PSYC 60792; and clinical psychology or psychological science major; and graduate standing.

**Schedule Type:** Practical Experience

**Contact Hours:** 1-3 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**PSYC 62685 RESEARCH METHODS IN PSYCHOLOGICAL SCIENCE 3 Credit Hours**

(Slashed with PSYC 72685) Course fosters the development of graduate students as independent researchers by helping them acquire knowledge of and facility with quantitative research methods in psychology. The course covers a range of topics that are essential for successful research in psychology, including formulating research questions, measurement, research design, sampling, ethics, writing, replication and validity.

**Prerequisite:** Clinical psychology or psychological science major; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PSYC 70105 DEVELOPMENTAL PSYCHOPATHOLOGY 3 Credit Hours**

(Slashed with PSYC 60105) Nature and theoretical explanations of various forms of psychopathology in children and adults. Students learn about the methods used to research psychopathology and understand contemporary controversies in the study of developmental psychopathology.

**Prerequisite:** Clinical psychology or psychological science major; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PSYC 70110 INTRODUCTION TO PSYCHOPATHOLOGY: CHILD 3 Credit Hours**

(Slashed with PSYC 60110) Introduction to psychopathology from a developmental perspective. Covers models of classification and specific disorders of childhood.

**Prerequisite:** Clinical psychology or psychological science major; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PSYC 70170 INTRODUCTION TO PSYCHOPATHOLOGY: ADULT 3 Credit Hours**

(Slashed with PSYC 60170) An examination of the etiology, symptomology and theoretical models of adult psychopathology.  
**Prerequisite:** Clinical psychology or psychological science major; and doctoral standing.  
**Schedule Type:** Lecture  
**Contact Hours:** 3 lecture  
**Grade Mode:** Standard Letter

**PSYC 70192 INTEGRATION PRACTICUM 1-3 Credit Hours**

(Repeatable for credit) Integration of assessment, psychopathology and psychotherapy coursework. Emphasis on learning how to conceptualize cases in general and from differing theoretical perspectives.  
**Prerequisite:** PSYC 70292 and PSYC 70792; and clinical psychology or psychological science major; and doctoral standing.  
**Schedule Type:** Lecture, Practical Experience  
**Contact Hours:** 3 lecture  
**Grade Mode:** Satisfactory/Unsatisfactory-IP

**PSYC 70272 INTRODUCTION TO PSYCHOLOGICAL ASSESSMENT 3 Credit Hours**

(Slashed with PSYC 60272) Introduction to psychological assessment as a process for solving important clinical problems. Theoretical methodological and research issues are emphasized. Students become familiar with major psychological tests.  
**Prerequisite:** Clinical psychology or psychological science major; and doctoral standing.  
**Schedule Type:** Lecture  
**Contact Hours:** 3 lecture  
**Grade Mode:** Standard Letter

**PSYC 70273 ADVANCED PSYCHOLOGICAL ASSESSMENT: ADULT 3 Credit Hours**

(Slashed with PSYC 60273) Examines psychodiagnosis within a context of 'personality-as-a-coherent-whole.' Emphasizes an ideographic approach with a theoretical framework, which organizes and gives meaning to observations.  
**Prerequisite:** PSYC 70272; and clinical psychology or psychological science major; and doctoral standing.  
**Schedule Type:** Lecture  
**Contact Hours:** 3 lecture  
**Grade Mode:** Standard Letter

**PSYC 70274 ADVANCED PSYCHOLOGICAL ASSESSMENT: CHILD 3 Credit Hours**

(Slashed with PSYC 60274) Interviewing, developmental and intellectual assessments, personality evaluations, behavioral assessments and assessment of special-child populations. Emphasis on the rationale and integration of research relevant to appropriate use and interpretation.  
**Prerequisite:** PSYC 70272 and PSYC 70292; and clinical psychology or psychological science major; and doctoral standing.  
**Schedule Type:** Lecture  
**Contact Hours:** 3 lecture  
**Grade Mode:** Standard Letter

**PSYC 70275 BEHAVIORAL ASSESSMENT 3 Credit Hours**

(Slashed with PSYC 60275) Considers behavioral assessment from an empirical as well as an applied perspective. Intended for persons familiar with general assessment, psychopathology and psychotherapy issues.  
**Prerequisite:** PSYC 70272 and PSYC 70292; and clinical psychology or psychological science major; and doctoral standing.  
**Schedule Type:** Lecture  
**Contact Hours:** 3 lecture  
**Grade Mode:** Standard Letter

**PSYC 70276 NEUROPSYCHOLOGICAL ASSESSMENT 3 Credit Hours**

(Slashed with PSYC 60276) Introduction to the conceptual foundations of neuropsychological assessment and practical knowledge in assessment procedures, methods of interpretation and differential diagnosis.  
**Prerequisite:** Clinical psychology or psychological science major; and doctoral standing.  
**Schedule Type:** Lecture  
**Contact Hours:** 3 lecture  
**Grade Mode:** Standard Letter

**PSYC 70292 PSYCHOLOGICAL ASSESSMENT PRACTICUM 1-3 Credit Hours**

(Repeatable for credit) Applied aspects of material presented in PSYC 70272. Emphasis on administering, scoring and interpreting major assessment tools.  
**Prerequisite:** Clinical psychology or psychological science major; and doctoral standing.  
**Corequisite:** PSYC 70272.  
**Schedule Type:** Practical Experience  
**Contact Hours:** 1-3 other  
**Grade Mode:** Satisfactory/Unsatisfactory-IP

**PSYC 70324 PROFESSIONAL ISSUES AND ETHICS IN CLINICAL PSYCHOLOGY 3 Credit Hours**

(Slashed with PSYC 60324) Review of professional concerns in the field, including training, ethics, client rights, economics, legal issues, relationship to other professions and professional organization and policy.  
**Prerequisite:** Clinical psychology or psychological science major; and doctoral standing.  
**Schedule Type:** Lecture  
**Contact Hours:** 3 lecture  
**Grade Mode:** Standard Letter

**PSYC 70326 CLINICAL ASPECTS OF HEALTH PSYCHOLOGY 3 Credit Hours**

(Slashed with PSYC 60326) Consideration of psychosocial influences on health status that are relevant to the clinician. Attention is given to interventions on both individual and community levels. Emphasis on approaches to prevention treatment and public policy.  
**Prerequisite:** Clinical psychology or psychological science major; and doctoral standing.  
**Schedule Type:** Lecture  
**Contact Hours:** 3 lecture  
**Grade Mode:** Standard Letter

**PSYC 70371 INTRODUCTION TO PSYCHOLOGICAL THERAPY 3 Credit Hours**

(Slashed with PSYC 60371) Introduction to psychotherapy, with special emphasis on psychodynamic and phenomenological approaches with theory, technique and major research findings considered.  
**Prerequisite:** Clinical psychology or psychological science major; and doctoral standing.  
**Schedule Type:** Lecture  
**Contact Hours:** 3 lecture  
**Grade Mode:** Standard Letter

**PSYC 70375 COGNITIVE BEHAVIOR THERAPY 3 Credit Hours**

(Slashed with PSYC 60375) Empirical and clinical aspects of cognitive and behavioral interventions. Intended for students familiar with basic psychotherapy assessment and psychopathology issues.

**Prerequisite:** PSYC 70371 and PSYC 70292; and clinical psychology or psychological science major; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PSYC 70376 CHILD PSYCHOTHERAPY 3 Credit Hours**

(Slashed with PSYC 60376) Consideration of various aspects of child psychotherapy, including general issues, traditional therapies, behavior and cognitive behavior therapies and child therapy research. Emphasis on integration of theory technique and research.

**Prerequisite:** Clinical psychology or psychological science major; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PSYC 70382 PEDIATRIC PSYCHOLOGY 3 Credit Hours**

(Slashed with PSYC 40382 and PSYC 50382) Survey of the current topics and research in the field of pediatric (or child health) psychology. Includes a general overview of a number of pediatric psychology topics, including opportunities for more focused study of specific conditions and illnesses. Class sessions cover a mix of general issues (e.g., systems, adherence, diversity, stress and coping), descriptions of clinical roles in pediatric psychology (e.g., consultation liaison, multidisciplinary teams) and specific pediatric conditions with a focus on understanding the role of pediatric psychology.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PSYC 70392 SUPERVISED CLINICAL EXPERIENCE 1-3 Credit Hours**

(Repeatable for credit) Post-practicum, psychological service provision and/or research activities in institution or agency under supervision of licensed psychologist and by arrangement of department of psychology.

**Prerequisite:** PSYC 72392; and doctoral standing; and special approval.

**Schedule Type:** Field Experience

**Contact Hours:** 1-3 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**PSYC 70395 ADVANCED TOPICS IN CLINICAL PSYCHOLOGY 1-6 Credit Hours**

(Repeatable for credit)(Slashed with PSYC 60395) Advanced-level consideration of selected content areas in assessment, psychotherapy, psychopathology, professional issues and community psychology. Specific topic varies per course offering.

**Prerequisite:** Doctoral standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 1-6 lecture

**Grade Mode:** Standard Letter

**PSYC 70413 COGNITIVE NEUROPSYCHOLOGY 3 Credit Hours**

The effect of brain injury and anomalous neurological development on cognitive skills such as language, perception and memory are explored.

**Prerequisite:** Clinical psychology or psychological science major; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PSYC 70453 INTRODUCTION TO COGNITIVE PSYCHOLOGY 3 Credit Hours**

(Slashed with PSYC 60453) Information-processing approaches to human thought. Focus on processes used to transform, store, manipulate and retrieve sensory input. Topics include attention, pattern recognition, memory and language.

**Prerequisite:** Clinical psychology or psychological science major; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PSYC 70592 PRACTICUM IN DIAGNOSTIC INTERVIEWING 1-3 Credit Hours**

(Repeatable for maximum 3 credit hours) Covers skills clinical psychologists must possess to help clients, effectively work within the field, communicate effectively with peers and colleagues and excel as a clinical researcher. Provides a foundation of skills, knowledge and expertise necessary to competently conduct a diagnostic interview, and provides an introduction to the process of conceptualize a client's presenting problem(s).

**Prerequisite:** Clinical psychology or psychological science major; and doctoral standing.

**Schedule Type:** Practical Experience

**Contact Hours:** 3-9 other

**Grade Mode:** Standard Letter-IP

**PSYC 70604 COGNITIVE DEVELOPMENT 3 Credit Hours**

Examination of theories and research concerning changes in memory, perception, thought and language over the life span.

**Prerequisite:** Clinical psychology or psychological science major; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PSYC 70615 SOCIAL AND PERSONALITY DEVELOPMENT 3 Credit Hours**

Examination of theories and research in social development, with a focus on how personal relationships influence personality development.

**Prerequisite:** Clinical psychology or psychological Science major; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PSYC 70792 PSYCHOTHERAPY PRACTICUM 1-3 Credit Hours**

(Repeatable for credit) Basic training in applied aspects of psychotherapy. Through didactic and experiential methods, students learn basic listening and communication skills that are then applied to specific techniques situations and issues.

**Prerequisite:** Clinical psychology or psychological science major; and doctoral standing.

**Schedule Type:** Practical Experience

**Contact Hours:** 3-9 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP



**PSYC 70895 ADVANCED TOPICS IN EXPERIMENTAL PSYCHOLOGY 1-6 Credit Hours**

(Repeatable for credit)(Slashed with PSYC 60895) Advanced-level consideration of selected content areas in experimental psychology. Specific topic varies per course offering.

**Prerequisite:** Doctoral standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 1-6 lecture

**Grade Mode:** Standard Letter

**PSYC 70950 HISTORY AND CONTEMPORARY SYSTEMS 3 Credit Hours**

(Slashed with PSYC 60950) Relationships between historical antecedents and the major contemporary systems and theories of psychology.

**Prerequisite:** Clinical psychology or psychological science major; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PSYC 71054 LEARNING AND CONDITIONING 3 Credit Hours**

(Slashed with PSYC 61054) Introduction to basic conditioning processes.

Emphasis on Pavlovian and instrumental learning phenomena, particularly as these are exemplified in animal models of behavior.

**Prerequisite:** Clinical psychology or psychological science major; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PSYC 71260 THEORIES OF PERSONALITY 3 Credit Hours**

(Slashed with PSYC 61260) Consideration of major theoretical orientations, including psychoanalysis, phenomenology and those stressing learning. Emphasis on principal concepts; deals less with research methods and findings.

**Prerequisite:** Clinical psychology or psychological science major; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PSYC 71307 PSYCHOBIOLOGICAL ASPECTS OF HEALTH PSYCHOLOGY 3 Credit Hours**

An introduction to non-neural aspects of psychobiology, with emphasis on psycho-endocrinology, psychoimmunology and the psychobiologic aspects of disease.

**Prerequisite:** Clinical psychology or psychological science major; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PSYC 71350 PHYSIOLOGICAL PSYCHOLOGY 3 Credit Hours**

(Slashed with PSYC 61350) Neurophysiological, neurochemical and neuroanatomical factors in the control of cognitive processes motivation and behavior. Emphasis is on the broad coverage of major topics in the field.

**Prerequisite:** Clinical psychology or psychological science major; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PSYC 71395 SPECIAL TOPICS IN CHILD PSYCHOLOGY 3 Credit Hours**

(Repeatable for credit)(Slashed with PSYC 41395 and PSYC 51395) In-depth examination of particular topics of current interest to faculty and students. Specialized areas of child psychology. Specific topic varies per course offering.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PSYC 71507 PSYCHOSOCIAL ASPECTS OF HEALTH PSYCHOLOGY 3 Credit Hours**

Examines concepts of disease and their implications for health.

Emphasizes psychosocial stress in disease etiology and psychological factors influencing illness recovery.

**Prerequisite:** Clinical psychology or psychological science major; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PSYC 71548 PSYCHOLOGY OF GENDER AND MINORITIES 3 Credit Hours**

(Slashed with PSYC 61548) Neurophysiological, neurochemical and neuroanatomical factors in the control of cognitive processes motivation and behavior. Emphasis is on the broad coverage of major topics in the field.

**Prerequisite:** Clinical psychology or psychological science major; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PSYC 71580 SOCIAL PSYCHOLOGY 3 Credit Hours**

(Slashed with PSYC 61580) Introduction to empirical research and theories on the psychological processes related to interpersonal and small group behavior.

**Prerequisite:** Clinical psychology or psychological science major; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PSYC 71595 SPECIAL TOPICS IN COUNSELING CAREERS 3 Credit Hours**

(Repeatable for credit)(Slashed with PSYC 41595 and PSYC 51595) In-depth examination of particular topics of current interest to faculty and students. Specialized areas of psychology related to counseling careers. Topic varies per course offering.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PSYC 71651 QUANTITATIVE STATISTICAL ANALYSIS I 3 Credit Hours**

(Slashed with PSYC 61651) Review of univariate statistics and an introduction to using bivariate and multivariate statistics. Part one of a two-semester sequence on statistical analysis.

**Prerequisite:** Clinical psychology or psychological science major; and doctoral standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter



**PSYC 71654 QUANTITATIVE STATISTICAL ANALYSIS II 3 Credit Hours**

(Slashed with PSYC 61654) Multivariate statistics for classifying individuals and variables. Additional topics include power/effect size and handling missing data. Part two of a two-semester sequence on statistical analysis.

**Prerequisite:** PSYC 71651; and clinical psychology or psychological science major; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PSYC 71685 CLINICAL RESEARCH METHODS 3 Credit Hours**

(Slashed with PSYC 61685) Consideration of research methodologies relevant to clinical psychology, with emphasis on strengths and weaknesses of research designs and issues related to collection and evaluation of data.

**Prerequisite:** Clinical psychology or psychological science major; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PSYC 71894 COLLEGE TEACHING OF PSYCHOLOGY 3 Credit Hours**

(Repeatable for maximum 6 credit hours) Training and experience in college teaching.

**Prerequisite:** Clinical psychology or psychological science major; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Satisfactory/Unsatisfactory

**PSYC 71993 VARIABLE TITLE WORKSHOP IN PSYCHOLOGY 1-6 Credit Hours**

(Repeatable for maximum 6 credit hours) Workshop topic varies per course offering.

**Prerequisite:** Clinical psychology or psychological science major; and doctoral standing.

**Schedule Type:** Workshop

**Contact Hours:** 1-6 other

**Grade Mode:** Satisfactory/Unsatisfactory

**PSYC 72392 CLINICAL PRACTICUM 1-3 Credit Hours**

(Repeatable for credit) Beginning practicum in psychological clinic involving selection, administration and evaluation of tests of ability and personality.

**Prerequisite:** Doctoral standing; and special approval.

**Schedule Type:** Practical Experience

**Contact Hours:** 1-3 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**PSYC 72445 MULTIVARIATE STATISTICS 3 Credit Hours**

Intended to cover two major multivariate statistical techniques in psychology: structural equation modeling (SEM) and hierarchical linear modeling (HLM).

**Prerequisite:** PSYC 71654 and PSYC 72445; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PSYC 72492 ADVANCED PRACTICUM 1-3 Credit Hours**

(Repeatable for credit) Intensified experience in the diagnosis and treatment of specific disorders from the scientist-practitioner model.

**Prerequisite:** PSYC 70192 and PSYC 70292 and PSYC 70792; and clinical psychology or psychological science major; and doctoral standing.

**Schedule Type:** Practical Experience

**Contact Hours:** 1-3 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**PSYC 72685 RESEARCH METHODS IN PSYCHOLOGICAL SCIENCE 3 Credit Hours**

(Slashed with PSYC 62685) Course fosters the development of graduate students as independent researchers by helping them acquire knowledge of and facility with quantitative research methods in psychology. The course covers a range of topics that are essential for successful research in psychology, including formulating research questions, measurement, research design, sampling, ethics, writing, replication and validity.

**Prerequisite:** Clinical psychology or psychological science major; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PSYC 73001 CLINICAL NEUROANATOMY 3 Credit Hours**

(Slashed with PSYC 43001 and PSYC 53001)(Cross-listed with BMS 50701 and BMS 70701) Course examines the anatomical organization of the human brain, emphasizing functional aspects of various neural systems, neuroimaging and topics of clinical relevance. Students must have a conceptual understanding of central nervous system organization and memorization of specific neural structures and pathways, as well as knowledge of the impact of structure and systems dysfunction.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PSYC 73002 CURRENT TECHNIQUES IN BEHAVIORAL NEUROSCIENCE 3 Credit Hours**

(Slashed with PSYC 43002 and PSYC 53002)(Cross-listed with BMS 50702 and BMS 70702) Course details current and advanced techniques used in behavioral neuroscience research. Emphasis is placed on understanding the theory behind each technique, and its use in understanding the neural mechanisms of behavior. Detailed protocols for each technique are also covered.

**Prerequisite:** Doctoral standing; and special approval from instructor.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PSYC 73003 NEURAL MECHANISMS OF LEARNING AND MEMORY 3 Credit Hours**

(Slashed with PSYC 43003 and PSYC 53003)(Cross-listed with BMS 50703 and BMS 70703) Course examines the neural and molecular mechanisms underlying learning and memory formation. Covers cellular mechanisms of learning, including long-term potentiation and basic electrophysiology in invertebrate and mammalian preps. Transcriptional and post-translational modifications required for learning and memory formation, genomic signaling and protein synthesis. Also covers structural changes of neurons associated with memory formation, and the different behavioral methods for studying memory.

**Prerequisite:** Doctoral standing; and special approval from instructor.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PSYC 77387 NEUROPSYCHOPHARMACOLOGY 3 Credit Hours**

(Slashed with PSYC 47387 and PSYC 57387) Neuropsychopharmacology is the study of how drugs and other chemicals affect brain and behavior. Course introduces students to the behavioral effects of psychoactive therapeutic drugs and neurotoxic chemicals in relation to their neural and molecular mechanisms of action. Covers general principles of neuropsychopharmacology; nervous system structure in relation to behavior and mind, brain and behavioral systems that are affected by different classes of drugs and toxic chemicals; and methods employed in neuropsychopharmacology research.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PSYC 80391 SEMINAR IN CLINICAL PSYCHOLOGY 3 Credit Hours**

(Repeatable for credit) Seminar devoted to detailed study of various topics in field of clinical psychology. Specific topic varies per course offering.

**Prerequisite:** Doctoral standing; and special approval.

**Schedule Type:** Seminar

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**PSYC 80491 SEMINAR IN COGNITIVE PSYCHOLOGY 3 Credit Hours**

(Repeatable for credit) Seminar on current research in cognitive psychology. Specific topics will be announced in schedule of classes.

**Prerequisite:** Doctoral standing; and special approval.

**Schedule Type:** Seminar

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**PSYC 81091 SEMINAR IN LEARNING AND BIOPSYCHOLOGY 3 Credit Hours**

(Repeatable for credit) Seminar on current research in learning and biopsychology. Specific topic varies per course offering.

**Prerequisite:** Clinical psychology or psychological science major; and doctoral standing.

**Schedule Type:** Seminar

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**PSYC 81199 DISSERTATION I 15 Credit Hours**

(Repeatable for credit) Doctoral dissertation, for which registration in at least two semesters is required the first of which will be semester in which dissertation work is begun and continuing until the completion of 30 hours.

**Prerequisite:** Doctoral standing; and special approval.

**Schedule Type:** Dissertation

**Contact Hours:** 15 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**PSYC 81299 DISSERTATION II 15 Credit Hours**

(Repeatable for credit) Continuing registration required of doctoral students who have completed the initial 30 hours of dissertation and continuing until all degree requirements are met.

**Prerequisite:** PSYC 81199; and doctoral standing.

**Schedule Type:** Dissertation

**Contact Hours:** 15 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**PSYC 81498 RESEARCH 1-15 Credit Hours**

(Repeatable for credit) Research or individual investigation for doctoral students. Credits may be applied toward degree with department approval.

**Prerequisite:** Doctoral standing; and special approval.

**Schedule Type:** Research

**Contact Hours:** 1-15 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**PSYC 81591 SEMINAR IN PERSONALITY AND SOCIAL PSYCHOLOGY 3 Credit Hours**

(Repeatable for credit) Seminar on current research in areas of social psychology. Specific topics will be announced in schedule of classes.

**Prerequisite:** Doctoral standing in psychology.

**Schedule Type:** Seminar

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**PSYC 81691 SEMINAR IN QUANTITATIVE METHODS 3 Credit Hours**

(Repeatable for credit) Seminar on applications of quantitative methods within various content areas of psychology. Specific topic varies per course offering.

**Prerequisite:** Doctoral standing; and special approval.

**Schedule Type:** Seminar

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

## Clinical Psychology - M.A.

College of Arts and Sciences

Department of Psychological Sciences

144 Kent Hall

Kent Campus

330-672-2166

gradpsych@kent.edu

www.kent.edu/psychology

## Description

**Admission to the Master of Arts degree in Clinical Psychology has been temporarily suspended as of fall 2016.**

The Master of Arts degree in Clinical Psychology is an intermediate degree required of students in the doctoral program.

## Admission Requirements

- Bachelor's degree from an accredited college or university for unconditional admission
- Minimum junior-senior 3.000 undergraduate GPA on a 4.000 point scale for unconditional admission
- 18 credit hours in psychology, including a course in statistics
- Broad background in psychology
- Official transcript(s)
- GRE scores
- Goal statement
- Three letters of recommendation
- English language proficiency - all international students must provide proof of English language proficiency (unless they meet specific exceptions) by earning one of the following:
  - Minimum 550 TOEFL PBT score (paper-based version)
  - Minimum 79 TOEFL IBT score (Internet-based version)
  - Minimum 77 MELAB score
  - Minimum 6.5 IELTS score
  - Minimum 58 PTE score
  - Minimum 120 Duolingo English Test score

Admission to the M.A. degree is limited to students whose records clearly indicate both scholarly and research potential to do doctoral-level work. For more information about graduate admissions, please visit the Graduate Studies admission website. For more information on international admission, visit the Office of Global Education's admission website.

## Program Learning Outcomes

Graduates of this program will be able to:

1. Demonstrate competencies in research methodologies specific to their area of interest.
2. Demonstrate competencies in teaching undergraduate courses.
3. Demonstrate competencies in providing psychological assessment and treatment services.

## Clinical Psychology - M.A. Program Requirements

Admission to the Master of Arts degree in Clinical Psychology has been temporarily suspended as of fall 2016.

## Clinical Psychology - Ph.D.

College of Arts and Sciences  
 Department of Psychological Sciences  
 144 Kent Hall  
 Kent Campus  
 330-672-2166  
 gradpsych@kent.edu  
 www.kent.edu/psychology

## Description

The Ph.D. degree in Clinical Psychology prepares students to conduct research, to serve on college and university faculties and to provide a

range of clinical services. The program adheres to the Clinical Scientist model of education and training, which is founded on the idea that the practice of psychology should be based on the science of psychology, and that practicing psychologists should be able to translate clinical observation into researchable questions and pursue new knowledge on the basis of their observations. Students are expected to develop an area of special expertise in research, and opportunities for specialized clinical training are offered.

In addition to general training in clinical psychology, students may receive specialized research and clinical training in one of the following areas: adult psychopathology, assessment, child, health or neuropsychology.

### Fully Offered At:

- Kent Campus

## Accreditation

The Ph.D. degree in Clinical Psychology is accredited by the American Psychological Association.

## Admission Requirements

- Bachelor's degree or higher from an accredited college or university for unconditional admission
- Minimum junior-senior 3.000 undergraduate GPA on a 4.000 point scale for unconditional admission
- 18 credit hours in psychology, including a course in statistics
- Broad background in psychology
- Official transcript(s)
- GRE scores
- Goal statement
- Three letters of recommendation
- English language proficiency - all international students must provide proof of English language proficiency (unless they meet specific exceptions) by earning one of the following:
  - Minimum 587 TOEFL PBT score (paper-based version)
  - Minimum 94 TOEFL IBT score (Internet-based version)
  - Minimum 82 MELAB score
  - Minimum 7.0 IELTS score
  - Minimum 65 PTE score
  - Minimum 120 Duolingo English Test score

Admission to the Ph.D. degree is limited to students whose records clearly indicate both scholarly and research potential to do doctoral-level work. For more information about graduate admissions, please visit the Graduate Studies admission website. For more information on international admission, visit the Office of Global Education's admission website.

## Program Learning Outcomes

Graduates of this program will be able to:

1. Demonstrate competencies in research methodologies specific to their area of interest.
2. Demonstrate competencies in teaching undergraduate courses.
3. Demonstrate competencies in providing psychological assessment and treatment services.

## Program Requirements

### Major Requirements

Code	Title	Credit Hours
PSYC 70105	DEVELOPMENTAL PSYCHOPATHOLOGY	3
PSYC 70192	INTEGRATION PRACTICUM	3
PSYC 70272	INTRODUCTION TO PSYCHOLOGICAL ASSESSMENT	3
PSYC 70273	ADVANCED PSYCHOLOGICAL ASSESSMENT:ADULT	3
PSYC 70324	PROFESSIONAL ISSUES AND ETHICS IN CLINICAL PSYCHOLOGY	3
PSYC 70371	INTRODUCTION TO PSYCHOLOGICAL THERAPY	3
PSYC 70392	SUPERVISED CLINICAL EXPERIENCE	2
PSYC 70592	PRACTICUM IN DIAGNOSTIC INTERVIEWING	3
PSYC 70792	PSYCHOTHERAPY PRACTICUM	3
PSYC 71651	QUANTITATIVE STATISTICAL ANALYSIS I	3
PSYC 71654	QUANTITATIVE STATISTICAL ANALYSIS II	3
PSYC 71685	CLINICAL RESEARCH METHODS	3
PSYC 71894	COLLEGE TEACHING OF PSYCHOLOGY <sup>1</sup>	3
PSYC 72392	CLINICAL PRACTICUM	9
PSYC 72492	ADVANCED PRACTICUM	7
PSYC 81199	DISSERTATION I <sup>2</sup>	30
Additional Program Electives <sup>3</sup>		29
Minimum Total Credit Hours:		113

<sup>1</sup> PSYC 71894 is required for students who teach starting their third year.

<sup>2</sup> Doctoral candidates, upon admission to candidacy, must register for PSYC 81199 for a total of 30 hours. It is expected that doctoral candidates will continuously register for PSYC 81199, and thereafter PSYC 81299, each semester, until all requirements for the degree have been met.

<sup>3</sup> A limited number of graduate courses outside the department may be credited toward graduation. No 50000-level psychology courses may be applied to the degree. PSYC 81498 can be used to partially satisfy additional program electives.

### Candidacy Requirement

- Students who have been admitted into the doctoral program will be considered for Ph.D. candidacy after they have met all requirements for the M.A. degree and have passed a qualifying examination in a major area of specialization in psychology.
- The Department of Psychological Sciences reserves the right to separate from the program a student who, in the opinion of a duly constituted departmental committee, is not likely to succeed professionally despite earning acceptable grades.
- Proficiency in a foreign language is not a requirement for the Ph.D. degree.

### Graduation Requirements

- The program requires full-time continuous enrollment, including summers.
- Post-baccalaureate students are required to complete a minimum of four years of full-time attendance.

- All Ph.D. candidates (regardless of area of specialization) complete a program of basic core courses and clinical practica, select additional courses and seminars with the aid of a faculty advisor and complete a doctoral dissertation.
- Students must complete a supervised traineeship in a faculty-approved mental health facility outside the department, which involves a minimum of 1,000 hours. Additionally, a 2,000-hour internship in a setting approved by the American Psychological Association is required over a calendar year's duration.
- The Department of Psychological Sciences will permit the waiving of program coursework if supported by appropriate graduate-level coursework for post-master's students admitted to the program. Students may earn the Ph.D. degree with less than 113 credit hours but no less than 98 total credit hours.

## Neuroscience - B.S.

### College of Arts and Sciences

Department of Psychological Sciences

144 Kent Hall

Kent Campus

330-672-2166

psych@kent.edu

www.kent.edu/psychology

Department of Biological Sciences

256 Cunningham Hall

Kent Campus

330-672-3613

kentbiology@kent.edu

www.kent.edu/biology

### Description

The Bachelor of Science degree in Neuroscience offers a broad-based study of the mechanisms of brain function from the cell and molecular level through cognition and behavior. This major is for students interested in medicine, other health professions, research and graduate studies in biology, neuroscience and psychology. The major will also prepare students for careers in industries, including biotechnology, pharmaceuticals, research administration and policy, science communication, teaching and other science-related businesses.

### Fully Offered At:

- Kent Campus

## Admission Requirements

The university affirmatively strives to provide educational opportunities and access to students with varied backgrounds, those with special talents and adult students who graduated from high school three or more years ago.

**Freshman Students on the Kent Campus:** The freshman admission policy on the Kent Campus is selective. Admission decisions are based upon the following: cumulative grade point average, ACT and/or SAT scores, strength of high school college preparatory curriculum and grade trends. The Admissions Office at the Kent Campus may defer the admission of students who do not meet admissions criteria but who demonstrate areas of promise for successful college study. Deferred applicants may begin their college coursework at one of seven regional

campuses of Kent State University. For more information on admissions, including additional requirements for some academic programs, visit the admissions website for new freshmen.

**Freshman Students on the Regional Campuses:** Kent State campuses at Ashtabula, East Liverpool, Geauga, Salem, Stark, Trumbull and Tuscarawas, as well as the Regional Academic Center in Twinsburg, have open enrollment admission for students who hold a high school diploma, GED or equivalent.

**English Language Proficiency Requirements for International Students:** All international students must provide proof of English language proficiency (unless they meet specific exceptions) by earning a minimum 525 TOEFL score (71 on the Internet-based version), minimum 75 MELAB score, minimum 6.0 IELTS score or minimum 48 PTE score, or by completing the ESL level 112 Intensive Program. For more information on international admission, visit the Office of Global Education's admission website.

**Transfer, Transitioning and Former Students:** For more information about admission criteria for transfer, transitioning and former students, please visit the admissions website.

## Program Learning Outcomes

Graduates of this program will be able to:

- Demonstrate an understanding of fundamental principles of neuroscience.
- Acquire fundamental skills necessary for laboratory investigations into central nervous system function.
- Demonstrate an understanding of proper experimental design, data analysis and communication of research results.
- Demonstrate a greater knowledge and appreciation of the role neuroscience plays in societal issues, such as those related to neurological disorders, mental health, medicine and human and animal behavior.

## University Requirements

All students in a bachelor's degree program at Kent State University must complete the following university requirements for graduation.

**NOTE:** University requirements may be fulfilled in this program by specific course requirements. Please see Program Requirements for details.

Destination Kent State: First Year Experience	1
Course is not required for students with 25 transfer credits, excluding College Credit Plus, or age 21+ at time of admission.	
Diversity Domestic/Global (DIVD/DIVG)	2 courses
Students must successfully complete one domestic and one global course, of which one must be from the Kent Core.	
Experiential Learning Requirement (ELR)	varies
Students must successfully complete one course or approved experience.	
Kent Core (see table below)	36-37
Writing-Intensive Course (WIC)	1 course
Students must earn a minimum C grade in the course.	
Upper-Division Requirement	39 (or 42)

Students must successfully complete 39 upper-division (numbered 30000 to 49999) credit hours to graduate. Students in a B.A. and/or B.S. degree in the College of Arts and Sciences must complete 42 upper-division credit hours.

Total Credit Hour Requirement	120
Some bachelor's degrees require students to complete more than 120 credit hours.	

## Kent Core Requirements

Kent Core Composition (KCMP)	6
Kent Core Mathematics and Critical Reasoning (KMCR)	3
Kent Core Humanities and Fine Arts (KHUM/KFA) (min one course each)	9
Kent Core Social Sciences (KSS) (must be from two disciplines)	6
Kent Core Basic Sciences (KBS/KLAB) (must include one laboratory)	6-7
Kent Core Additional (KADL)	6
<b>Total Credit Hours:</b>	<b>36-37</b>

## Program Requirements

### Major Requirements

Code	Title	Credit Hours
<b>Major Requirements (courses count in major GPA)</b>		
BSCI 10120	BIOLOGICAL FOUNDATIONS (KBS) (KLAB)	4
BSCI 30140	CELL BIOLOGY	4
BSCI 30156	ELEMENTS OF GENETICS	3
BSCI 40600	WRITING IN THE BIOLOGICAL SCIENCES (WIC) <sup>1</sup>	1
or PSYC 41980	RESEARCH WRITING IN PSYCHOLOGY (WIC)	
or PSYC 41990	WRITING IN PSYCHOLOGY (WIC)	
CHEM 10060	GENERAL CHEMISTRY I (KBS)	4
CHEM 10061	GENERAL CHEMISTRY II (KBS)	4
CHEM 10062	GENERAL CHEMISTRY I LABORATORY (KBS) (KLAB)	1
CHEM 10063	GENERAL CHEMISTRY II LABORATORY (KBS) (KLAB)	1
MATH 11010	ALGEBRA FOR CALCULUS (KMCR)	3
NEUR 10100	SEMINAR IN NEUROSCIENCE	1
NEUR 30100	NEUROSCIENCE I	3
NEUR 30200	NEUROSCIENCE II	3
NEUR 30300	EXPERIMENTAL METHODS IN NEUROSCIENCE	1
PSYC 11762	GENERAL PSYCHOLOGY (DIVD) (KSS)	3
PSYC 21621	QUANTITATIVE METHODS IN PSYCHOLOGY I	3
PSYC 31574	RESEARCH METHODS IN PSYCHOLOGY (ELR)	3
Neuroscience Electives, choose from the following:		27
BSCI 40147	DEVELOPMENTAL NEUROBIOLOGY	
BSCI 40152	MOLECULAR MECHANISMS OF DISEASE: NEUROLOGICAL DISORDERS	
BSCI 40157	NEUROBIOLOGY OF DRUG ADDICTION	
BSCI 40158	MOLECULAR BIOLOGY	
BSCI 40159	MOLECULAR BIOLOGY LABORATORY (ELR) (WIC)	
BSCI 40431	NEUROENDOCRINOLOGY	
BSCI 40432	ENDOCRINOLOGY	
BSCI 40450	BIOLOGICAL CLOCKS	
BSCI 40460	ADVANCED HUMAN PHYSIOLOGY	
BSCI 40462	ADVANCED HUMAN PHYSIOLOGY: READINGS AND CASE STUDIES	



BSCI 40515	ANIMAL BEHAVIOR
BSCI 40519	HORMONES AND BEHAVIOR
NEUR 40192	INTERNSHIP IN NEUROSCIENCE (ELR) <sup>2</sup>
NEUR 40195	SPECIAL TOPICS IN NEUROSCIENCE
NEUR 40196	INDIVIDUAL INVESTIGATION IN NEUROSCIENCE
PSYC 31634	ANIMAL COGNITION
PSYC 40111	ABNORMAL PSYCHOLOGY
PSYC 40383	INTRODUCTION TO CLINICAL PSYCHOLOGY
PSYC 40446	COGNITIVE NEUROSCIENCE
PSYC 41043	BASIC LEARNING PROCESSES
PSYC 43001	CLINICAL NEUROANATOMY
PSYC 43002	CURRENT TECHNIQUES IN BEHAVIORAL NEUROSCIENCE
PSYC 43003	NEURAL MECHANISMS OF LEARNING AND MEMORY
PSYC 47387	NEUROPSYCHOPHARMACOLOGY
<b>Additional Requirements (courses do not count in major GPA)</b>	
UC 10097	DESTINATION KENT STATE: FIRST YEAR EXPERIENCE 1
Foreign Language (see Foreign Language College Requirement below)	8
Kent Core Composition	6
Kent Core Humanities and Fine Arts (minimum one course from each)	9
Kent Core Social Sciences (must be from two disciplines)	3
General Electives (total credit hours depends on earning 120 credit hours, including 42 upper-division credit hours)	24
<hr/>	
Minimum Total Credit Hours:	120

<sup>1</sup> A minimum C grade must be earned to fulfill the writing-intensive requirement.

<sup>2</sup> A maximum 6 credit hours of NEUR 40192 may count toward the major.

## Graduation Requirements

Minimum Major GPA	Minimum Overall GPA
2.000	2.000

### Foreign Language College Requirement

- Students pursuing the Bachelor of Science degree in the College of Arts and Sciences must complete 8 credit hours of foreign language. <sup>1</sup>
- Minimum Elementary I and II of the same language

<sup>1</sup> All students with prior foreign language experience should take the foreign language placement test to determine the appropriate level at which to start. Some students may begin their university foreign language experience beyond the Elementary I level and will complete the requirement with fewer credit hours and fewer courses. This may be accomplished by: (1) passing a course beyond the Elementary I through Intermediate II level or (2) receiving credit through Credit by Exam (CBE), the College Level Examination Program (CLEP), the Advanced Placement (AP) exam or credit through the International Baccalaureate (IB) program; or (3) being designated a 'native speaker' of a non-English language (consult with the College of Arts and Sciences Advising Office for additional information). When students complete the requirement with fewer than 8 credit hours and two courses, they will complete the remaining hours with general electives.

## Roadmap

This roadmap is a recommended semester-by-semester plan of study for this major. However, courses designated as critical (!) must be completed in the semester listed to ensure a timely graduation.

Semester One		Credits
BSCI 10120	BIOLOGICAL FOUNDATIONS (KBS) (KLAB)	4
CHEM 10060	GENERAL CHEMISTRY I (KBS)	4
CHEM 10062	GENERAL CHEMISTRY I LABORATORY (KBS) (KLAB)	1
MATH 11010	ALGEBRA FOR CALCULUS (KMCR)	3
NEUR 10100	SEMINAR IN NEUROSCIENCE	1
UC 10097	DESTINATION KENT STATE: FIRST YEAR EXPERIENCE	1
Credit Hours		14
Semester Two		Credits
BSCI 30140	CELL BIOLOGY	4
CHEM 10061	GENERAL CHEMISTRY II (KBS)	4
CHEM 10063	GENERAL CHEMISTRY II LABORATORY (KBS) (KLAB)	1
PSYC 11762	GENERAL PSYCHOLOGY (DIVD) (KSS)	3
Kent Core Requirement		3
Credit Hours		15
Semester Three		Credits
BSCI 30156	ELEMENTS OF GENETICS	3
NEUR 30100	NEUROSCIENCE I	3
PSYC 21621	QUANTITATIVE METHODS IN PSYCHOLOGY I	3
Foreign Language Requirement		4
Kent Core Requirement		3
Credit Hours		16
Semester Four		Credits
NEUR 30200	NEUROSCIENCE II	3
NEUR 30300	EXPERIMENTAL METHODS IN NEUROSCIENCE	1
PSYC 31574	RESEARCH METHODS IN PSYCHOLOGY (ELR)	3
Foreign Language Requirement		4
Kent Core Requirement		3
Credit Hours		14
Semester Five		Credits
Neuroscience Electives		9
Kent Core Requirement		3
Kent Core Requirement		3
Credit Hours		15
Semester Six		Credits
BSCI 40600	WRITING IN THE BIOLOGICAL SCIENCES (WIC) or RESEARCH WRITING IN PSYCHOLOGY (WIC)	1
PSYC 41980	or PSYC 41990	
Neuroscience Electives		9
Kent Core Requirement		3
General Elective		3
Credit Hours		16
Semester Seven		Credits
Neuroscience Electives		6
General Electives		9
Credit Hours		15

**Semester Eight**

Neuroscience Elective	3
General Electives	12
Credit Hours	15
Minimum Total Credit Hours:	120

## Psychological Science - M.A.

**College of Arts and Sciences**

Department of Psychological Sciences

144 Kent Hall

Kent Campus

330-672-2166

gradpsych@kent.edu

www.kent.edu/psychology

### Description

The Master of Arts degree in Psychological Science is an intermediate degree required of students in the doctoral program and offers specialization in behavioral neuroscience, cognitive psychology, developmental psychology, social psychology and health psychology. The program is strongly research-oriented.

### Fully Offered At:

- Kent Campus

### Admission Requirements

- Bachelor's degree from an accredited college or university for unconditional admission
- Minimum junior-senior 3.000 undergraduate GPA on a 4.000 point scale for unconditional admission
- 18 credit hours in psychology, including a course in statistics
- Broad background in psychology
- Official transcript(s)
- GRE scores
- Goal statement
- Three letters of recommendation
- English language proficiency - all international students must provide proof of English language proficiency (unless they meet specific exceptions) by earning one of the following:
  - Minimum 587 TOEFL PBT score (paper-based version)
  - Minimum 94 TOEFL IBT score (Internet-based version)
  - Minimum 82 MELAB score
  - Minimum 7.0 IELTS score
  - Minimum 65 PTE score
  - Minimum 120 Duolingo English Test score

Admission to the M.A. degree is limited to students whose records clearly indicate both scholarly and research potential to do doctoral-level work. For more information about graduate admissions, please visit the Graduate Studies admission website. For more information on international admission, visit the Office of Global Education's admission website.

### Program Learning Outcomes

Graduates of this program will be able to:

1. Demonstrate mastery of the current theories and significant empirical findings in a major area of psychological science. Mastery includes acquiring both an understanding of these materials as well as the ability to think critically about them.
2. Teach courses in psychological science.
3. Supervise and mentor undergraduate students in both research settings and in the classroom.
4. Design, execute, analyze and report empirical studies that make a significant contribution in a major area of psychological science.

### Program Requirements

#### Major Requirements

Code	Title	Credit Hours
PSYC 61651	QUANTITATIVE STATISTICAL ANALYSIS I	3
PSYC 61654	QUANTITATIVE STATISTICAL ANALYSIS II	3
PSYC 61685	CLINICAL RESEARCH METHODS <sup>1</sup>	3
or PSYC 62685	RESEARCH METHODS IN PSYCHOLOGICAL SCIENCE	
PSYC 61199	THESIS I	6
Additional Program Electives <sup>2</sup>		15
Minimum Total Credit Hours:		30

<sup>1</sup> Students pursuing the Ph.D. in Clinical Psychology must take PSYC 61685. Students pursuing the Ph.D. in Psychological Science must take PSYC 62685.

<sup>2</sup> Additional courses are selected with the aid of an advisor. A limited number of courses outside the department may be credited toward the degree. No 50000-level psychology courses may be applied toward degree requirements. PSYC 61498 may be used to partially satisfy additional program electives.

#### Graduation Requirements

- The program requires full-time continuous enrollment, including summers.
- Students pursuing the Ph.D. degree in Psychological Science must complete a first-year project and present it to faculty and graduate students during the fall of their second year.

## Psychological Science - Ph.D.

**College of Arts and Sciences**

Department of Psychological Sciences

144 Kent Hall

Kent Campus

330-672-2166

gradpsych@kent.edu

www.kent.edu/psychology

### Description

The Ph.D. degree in Psychological Science offers doctoral education and training in psychological science, with specializations in behavioral neuroscience, cognitive psychology, developmental psychology, social

psychology and health psychology. The curriculum and other aspects of training offered by the Department of Psychological Sciences prepare students for careers in research and teaching. The program is strongly research-oriented.

### Fully Offered At:

- Kent Campus

## Admission Requirements

- Bachelor's degree or higher from an accredited college or university for unconditional admission
- Minimum junior-senior 3.000 undergraduate GPA on a 4.000 point scale for unconditional admission
- 18 credit hours in psychology, including a course in statistics
- Broad background in psychology
- Official transcript(s)
- GRE scores
- Goal statement
- Three letters of recommendation
- English language proficiency - all international students must provide proof of English language proficiency (unless they meet specific exceptions) by earning one of the following:
  - Minimum 587 TOEFL PBT score (paper-based version)
  - Minimum 94 TOEFL IBT score (Internet-based version)
  - Minimum 82 MELAB score
  - Minimum 7.0 IELTS score
  - Minimum 65 PTE score

Admission to the Ph.D. degree is limited to students whose records clearly indicate both scholarly and research potential to do doctoral-level work. For more information about graduate admissions, please visit the Graduate Studies admission website. For more information on international admission, visit the Office of Global Education's admission website.

## Program Learning Outcomes

Graduates of this program will be able to:

1. Demonstrate mastery of the current theories and significant empirical findings in a major area of psychological science. Mastery includes acquiring both an understanding of these materials as well as the ability to think critically about them.
2. Teach courses in psychological science.
3. Supervise and mentor undergraduate students in both research settings and in the classroom.
4. Design, execute, analyze and report empirical studies that make a significant contribution in a major area of psychological science.

## Program Requirements

### Major Requirements

Code	Title	Credit Hours
PSYC 71651	QUANTITATIVE STATISTICAL ANALYSIS I	3
PSYC 71654	QUANTITATIVE STATISTICAL ANALYSIS II	3
PSYC 71894	COLLEGE TEACHING OF PSYCHOLOGY <sup>1</sup>	0-3

PSYC 72685	RESEARCH METHODS IN PSYCHOLOGICAL SCIENCE	3
PSYC 81199	DISSERTATION I <sup>2</sup>	30
Additional Program Electives <sup>3</sup>		21-51
<b>Minimum Total Credit Hours for Post Baccalaureate Students</b>		<b>90</b>
<b>Minimum Total Credit Hours for Post-Master's Students</b>		<b>60</b>

- <sup>1</sup> PSYC 71894 is required for students who teach starting their third year.
- <sup>2</sup> Doctoral candidates, upon admission to candidacy, must register for PSYC 81199 for a total of 30 hours. It is expected that doctoral candidates will continuously register for PSYC 81199, and thereafter PSYC 81299, each semester, until all requirements for the degree have been met.
- <sup>3</sup> All doctoral students (regardless of area of specialization) select additional courses and seminars with the aid of a faculty advisor. A limited number of graduate courses outside the department may be credited toward graduation. No 50000-level psychology courses may be applied to the degree program. PSYC 81498 can be used to partially satisfy additional program electives.

## Candidacy Requirements

- Students who have been admitted into the doctoral program will be considered for Ph.D. candidacy after they have met all requirements for the M.A. degree and have passed a qualifying examination in a major area of specialization in psychology.
- The Department of Psychological Sciences reserves the right to separate from the program a student who, in the opinion of a duly constituted departmental committee, is not likely to succeed professionally despite earning acceptable grades.
- Proficiency in a foreign language is not a requirement for the Ph.D. degree.

## Graduation Requirements

- The program requires full-time continuous enrollment.
- Post-baccalaureate students are required to complete a minimum of four years of full-time attendance.
- Doctoral program aspirants who do not hold a master's degree upon starting the program must complete all the requirements for the master's degree.
- Students must complete a first-year project and present it to faculty and graduate students during the fall of their second year.

## Psychology - B.A.

### College of Arts and Sciences

Department of Psychological Sciences  
144 Kent Hall  
Kent Campus  
330-672-2166  
psych@kent.edu  
www.kent.edu/psychology

## Description

Students in the Bachelor of Arts in Psychology apply the science of understanding and explaining thoughts, emotions and behavior to solving real-world problems. Topics include stress, biological influences

on behavior, growth and development of children and diagnosis and treatment of psychological disorders. Elective courses may be used to specialize in a number of areas of psychology and to gain hands-on experience in research labs. The degree prepares students for graduate school and employment in a range of fields, including clinical, applied and experimental areas of psychology and related fields such as education, law, human resources and health care.

The Psychology major includes the following optional concentrations:

- The **Child Psychology** concentration is designed for students who are interested specifically in children and adolescents. Topics include child development, psychological disorders of childhood and adolescence, children's cognitive processes, personality development and child-related research experience. The concentration prepares students for graduate study and employment in a range of fields, including clinical psychology, school psychology, school counseling and employment in settings such as child development centers and related agencies.
- The **Counseling Careers** concentration is designed to prepare students for employment in a range of fields and for master's-level study in all fields of counseling. Topics include human adjustment, stress and coping, human development, personality, psychological disorders, treatment and intervention techniques, psychometrics, psychopharmacology and clinical or counseling-related research experience.

Students interested in other career paths within psychology may pursue the major without a concentration.

### Fully Offered At:

- Ashtabula Campus
- East Liverpool Campus
- Geauga Campus
- Kent Campus
- Salem Campus
- Stark Campus
- Trumbull Campus
- Tuscarawas Campus

## Admission Requirements

The university affirmatively strives to provide educational opportunities and access to students with varied backgrounds, those with special talents and adult students who graduated from high school three or more years ago.

**Freshman Students on the Kent Campus:** The freshman admission policy on the Kent Campus is selective. Admission decisions are based upon the following: cumulative grade point average, ACT and/or SAT scores, strength of high school college preparatory curriculum and grade trends. The Admissions Office at the Kent Campus may defer the admission of students who do not meet admissions criteria but who demonstrate areas of promise for successful college study. Deferred applicants may begin their college coursework at one of seven regional campuses of Kent State University. For more information on admissions, including additional requirements for some academic programs, visit the admissions website for new freshmen.

**Freshman Students on the Regional Campuses:** Kent State campuses at Ashtabula, East Liverpool, Geauga, Salem, Stark, Trumbull and Tuscarawas, as well as the Regional Academic Center in Twinsburg, have

open enrollment admission for students who hold a high school diploma, GED or equivalent.

### English Language Proficiency Requirements for International Students:

All international students must provide proof of English language proficiency (unless they meet specific exceptions) by earning a minimum 525 TOEFL score (71 on the Internet-based version), minimum 75 MELAB score, minimum 6.0 IELTS score or minimum 48 PTE score, or by completing the ESL level 112 Intensive Program. For more information on international admission, visit the Office of Global Education's admission website.

**Transfer, Transitioning and Former Students:** For more information about admission criteria for transfer, transitioning and former students, please visit the admissions website.

## Program Learning Outcomes

Graduates of this program will be able to:

1. Describe the basic theoretical perspectives, principles, concepts, empirical findings and historical trends in psychology.
2. Understand and use fundamental data analysis techniques.
3. Understand and apply basic research methods/tools in psychology and evaluate the adequacy of research designs.
4. Write effectively in the discipline.
5. Recognize, understand, and respect the complexity of sociocultural and international diversity.

## University Requirements

All students in a bachelor's degree program at Kent State University must complete the following university requirements for graduation.

**NOTE:** University requirements may be fulfilled in this program by specific course requirements. Please see Program Requirements for details.

Destination Kent State: First Year Experience	1
Course is not required for students with 25 transfer credits, excluding College Credit Plus, or age 21+ at time of admission.	
Diversity Domestic/Global (DIVD/DIVG)	2 courses
Students must successfully complete one domestic and one global course, of which one must be from the Kent Core.	
Experiential Learning Requirement (ELR)	varies
Students must successfully complete one course or approved experience.	
Kent Core (see table below)	36-37
Writing-Intensive Course (WIC)	1 course
Students must earn a minimum C grade in the course.	
Upper-Division Requirement	39 (or 42)
Students must successfully complete 39 upper-division (numbered 30000 to 49999) credit hours to graduate. Students in a B.A. and/or B.S. degree in the College of Arts and Sciences must complete 42 upper-division credit hours.	
Total Credit Hour Requirement	120
Some bachelor's degrees require students to complete more than 120 credit hours.	

## Kent Core Requirements

Kent Core Composition (KCOMP)	6
Kent Core Mathematics and Critical Reasoning (KMCR)	3
Kent Core Humanities and Fine Arts (KHUM/KFA) (min one course each)	9
Kent Core Social Sciences (KSS) (must be from two disciplines)	6
Kent Core Basic Sciences (KBS/KLAB) (must include one laboratory)	6-7
Kent Core Additional (KADL)	6
<b>Total Credit Hours:</b>	<b>36-37</b>

## Program Requirements

### Major Requirements

Code	Title	Credit Hours
<b>Major Requirements (courses count in major GPA)</b>		
PSYC 11762	GENERAL PSYCHOLOGY (DIVD) (KSS) (KSS/DD)	3
PSYC 21621	QUANTITATIVE METHODS IN PSYCHOLOGY I <sup>1</sup>	3
PSYC 31574	RESEARCH METHODS IN PSYCHOLOGY (ELR) (ELR)	3
<i>Group I (Behavioral Neuroscience/Learning)</i>		
PSYC 41043	BASIC LEARNING PROCESSES	3
or PSYC 41363	BIOPSYCHOLOGY	
<i>Group II (Cognition)</i>		
Choose from the following:		3
PSYC 31141	PERCEPTION	
PSYC 40445	COGNITIVE PSYCHOLOGY	
PSYC 40446	COGNITIVE NEUROSCIENCE	
<i>Group III (Social/Personality)</i>		
PSYC 31282	PERSONALITY	3
or PSYC 31532	SOCIAL PSYCHOLOGY	
<i>Group IV (Application of Psychological Science)</i>		
Choose from the following:		1-3
PSYC 41573	LABORATORY EXPERIENCE IN PSYCHOLOGICAL RESEARCH: SOCIAL/CLINICAL (WIC) <sup>2</sup>	
PSYC 41574	LABORATORY EXPERIENCE IN PSYCHOLOGICAL RESEARCH: COGNITIVE/LEARNING (WIC) <sup>2</sup>	
PSYC 41980	RESEARCH WRITING IN PSYCHOLOGY (WIC) <sup>2,3</sup>	
PSYC 41990	WRITING IN PSYCHOLOGY (WIC) <sup>2,3</sup>	
<b>Additional Requirements (courses do not count in major GPA)</b>		
UC 10097	DESTINATION KENT STATE: FIRST YEAR EXPERIENCE	1
Foreign Language (se Foreign Language College Requirement below)		14-16
College General Requirement (must be from Kent Core Basic Sciences) <sup>4</sup>		3
College General Requirement (must be from Kent Core Social Sciences) <sup>5</sup>		3
Kent Core Composition		6
Kent Core Basic Sciences (must include one laboratory)		6-7
Kent Core Humanities and Fine Arts (minimum one course from each)		9
Kent Core Mathematics and Critical Reasoning		3-5
Kent Core Social Sciences (must be from two disciplines)		3
Kent Core Additional		3
General Electives (total credit hours depends on earning 120 credit hours, including 42 upper-division credit hours)		32

### Additional Requirements or Concentrations

Choose from the following:	18
Additional Requirements for Students Not Declaring a Concentration	
Child Psychology Concentration	
Counseling Careers Concentration	
Minimum Total Credit Hours:	120

- Students majoring in both Psychology and Sociology or Psychology and Criminology and Justice Studies may substitute SOC 32220 and SOC 32221 for PSYC 21621.
- A minimum C grade must be earned to fulfill the writing-intensive requirement.
- On the Kent Campus students take PSYC 41980 which has a pre/corequisite of PSYC 31574. If PSYC 41990 (offered on the regional campuses only) is selected, an upper-division course in psychology is taken as a corequisite. That course cannot be any of the following: PSYC 31498, PSYC 41498, PSYC 41573 or PSYC 41993.
- One additional course taken from the Kent Core Basic Science courses in the following Arts and Sciences disciplines: Anthropology (ANTH), Biological Sciences (BSCI), Chemistry (CHEM), Geography (GEOG), Geology (GEOL) or Physics (PHY). The course may not be from the student's major.
- One additional course taken from the Kent Core Social Science courses in the following Arts and Sciences disciplines: Anthropology (ANTH), Geography (GEOG), Criminology and Justice Studies (CRIM), Peace and Conflict Studies (PACS), Political Science (POL), Psychology (PSYC) or Sociology (SOC). The course may not be from the student's major.

### Additional Requirements for Students Not Declaring a Concentration

Code	Title	Credit Hours
<b>Major Requirements (courses count in major GPA)</b>		
<i>Group V (Developmental)</i>		
Choose from the following:		3
PSYC 20651	CHILD PSYCHOLOGY (DIVD) (KSS)	
PSYC 30651	ADOLESCENT PSYCHOLOGY	
PSYC 30656	PSYCHOLOGY OF AGING	
<i>Group VI (Clinical/Counseling)</i>		
PSYC 21211	PSYCHOLOGY OF EVERYDAY LIFE (DIVD) (KSS)	3
or PSYC 40111	ABNORMAL PSYCHOLOGY	
Psychology (PSYC) Upper-Division Electives (30000 or 40000 level) <sup>1</sup>		9
<b>Additional Requirements (courses do not count in major GPA)</b>		
Kent Core Additional		3
Minimum Total Credit Hours:		18

- Maximum 6 credit hours of PSYC 31498, PSYC 41492 and PSYC 41498 combined may be applied towards major requirements in psychology.

### Child Psychology concentration requirements

Code	Title	Credit Hours
<b>Concentration Requirements (courses count in major GPA)</b>		
PSYC 20651	CHILD PSYCHOLOGY (DIVD) (KSS)	3
Concentration Electives, choose from the following:		12



PSYC 30651	ADOLESCENT PSYCHOLOGY	
PSYC 30652	SOCIAL AND PERSONALITY DEVELOPMENT	
PSYC 30655	CHILDREN'S THINKING	
PSYC 40112	PSYCHOLOGICAL DISORDERS OF CHILDHOOD AND ADOLESCENCE	
PSYC 40382	PEDIATRIC PSYCHOLOGY	
PSYC 41395	SPECIAL TOPICS IN CHILD PSYCHOLOGY <sup>1</sup>	
<i>Group VI (Clinical/Counseling)</i>		
PSYC 21211	PSYCHOLOGY OF EVERYDAY LIFE (DIVD) (KSS)	3
or PSYC 40111	ABNORMAL PSYCHOLOGY	
Minimum Total Credit Hours:		18

<sup>1</sup> Maximum 9 credit hours may be applied toward concentration requirements

## Counseling Careers concentration REQUIREMENTS

Code	Title	Credit Hours
<b>Concentration Requirements (courses count in major GPA)</b>		
PSYC 21211	PSYCHOLOGY OF EVERYDAY LIFE (DIVD) (KSS)	3
PSYC 40111	ABNORMAL PSYCHOLOGY	3
PSYC 40231	PSYCHOLOGICAL ASSESSMENT	3
PSYC 40383	INTRODUCTION TO CLINICAL PSYCHOLOGY	3
Concentration Electives, choose from the following:		3
PSYC 30111	FORENSIC PSYCHOLOGY	
PSYC 30651	ADOLESCENT PSYCHOLOGY	
PSYC 30655	CHILDREN'S THINKING	
PSYC 40112	PSYCHOLOGICAL DISORDERS OF CHILDHOOD AND ADOLESCENCE	
PSYC 40382	PEDIATRIC PSYCHOLOGY	
PSYC 41364	DRUGS AND BEHAVIOR	
PSYC 41581	HEALTH PSYCHOLOGY	
PSYC 41595	SPECIAL TOPICS IN COUNSELING CAREERS	
<i>Group V (Developmental)</i>		
Choose from the following:		3
PSYC 20651	CHILD PSYCHOLOGY (DIVD) (KSS)	
PSYC 30651	ADOLESCENT PSYCHOLOGY	
PSYC 30656	PSYCHOLOGY OF AGING	
Minimum Total Credit Hours:		18

## GRADUATION REQUIREMENTS

Minimum Major GPA	Minimum Overall GPA
2.000	2.000

## Foreign Language College Requirement

Students pursuing the Bachelor of Arts degree in the College of Arts and Sciences must complete 14-16 credit hours of foreign language.<sup>1</sup>

To complete the requirement, students have the equivalent of Elementary I and II in any language, plus one of the following options:

- Intermediate I and II of the same language<sup>2</sup>
- Elementary I and II of a second language
- Any combination of two courses from the following list:
  - Intermediate I of the same language
  - MCLS 10001 INTRODUCTION TO STRUCTURAL CONCEPTS FOR LANGUAGE STUDENTS

- MCLS 20091 VARIABLE CONTENT SEMINAR IN GLOBAL LITERACY: CASE STUDIES
- MCLS 21417 MULTICULTURALISM IN TODAY'S GERMANY (DIVG)
- MCLS 28404 THE LATIN AMERICAN EXPERIENCE (DIVG)

<sup>1</sup> All students with prior foreign language experience should take the foreign language placement test to determine the appropriate level at which to start. Some students may begin beyond the Elementary I level and will complete the requirement with fewer credit hours and fewer courses. This may be accomplished by (1) passing a course beyond Elementary I through Intermediate II level; (2) receiving credit through Credit by Exam (CBE), Advanced Placement (AP), International Baccalaureate (IB) or College Level Examination Program (CLEP); or (3) being designated a 'native speaker' of a non-English language (consult with the College of Arts and Sciences Advising Office for additional information). When students complete the requirement with fewer than 14 credit hours and four courses, they will complete remaining credit hours with general electives.

<sup>2</sup> Certain majors, concentrations and minors may require specific languages, limit the languages from which a student may choose or require coursework through Intermediate II. Students who plan to pursue graduate study may need particular language coursework.

## Roadmaps

- Psychology Major (no concentration)
- Child Psychology Concentration
- Counseling Careers Concentration

### PSYCHOLOGY MAJOR (NO CONCENTRATION)

This roadmap is a recommended semester-by-semester plan of study for this major. However, courses designated as critical (!) must be completed in the semester listed to ensure a timely graduation.

Semester One		Credits
!	PSYC 11762 GENERAL PSYCHOLOGY (DIVD) (KSS)	3
	UC 10097 DESTINATION KENT STATE: FIRST YEAR EXPERIENCE	1
	Foreign Language	4
	Kent Core Requirement	3
	Kent Core Requirement	3
Credit Hours		14
Semester Two		
	Foreign Language	4
	Kent Core Requirement	3
	Kent Core Requirement	3
	Kent Core Requirement	3
	Kent Core Requirement	3
Credit Hours		16
Semester Three		
	PSYC 21621 QUANTITATIVE METHODS IN PSYCHOLOGY I	3
	Foreign Language	3
	Kent Core Requirement	3
	Kent Core Requirement	3
	Kent Core Requirement	3
Credit Hours		15
Semester Four		
	PSYC 31574 RESEARCH METHODS IN PSYCHOLOGY (ELR)	3
	Group I (Behavioral Neuroscience/Learning) or Group II (Cognition) or Group III (Social/Personality) or Group V (Developmental) or Group VI (Clinical/Counseling)	3
	Foreign Language	3
	Kent Core Requirement or General Electives	3
	Kent Core Requirement or General Electives	3
Credit Hours		15
Semester Five		
	Group I (Behavioral Neuroscience/Learning) or Group II (Cognition) or Group III (Social/Personality) or Group V (Developmental) or Group VI (Clinical/Counseling)	3
	Psychology (PSYC) Upper-Division Electives (30000 or 40000)	3
	College General Requirement	3
	College General Requirement	3
	General Electives	3
Credit Hours		15
Semester Six		
	Group I (Behavioral Neuroscience/Learning) or Group II (Cognition) or Group III (Social/Personality) or Group V (Developmental) or Group VI (Clinical/Counseling)	3
	Group IV (Application of Psychological Science)	1-3

General Electives	11
Credit Hours	
	15
Semester Seven	
Group I (Behavioral Neuroscience/Learning) or Group II (Cognition) or Group III (Social/Personality) or Group V (Developmental) or Group VI (Clinical/Counseling)	3
Psychology Upper-Division Electives (PSYC 30000 or 40000 level)	3
General Electives	9
Credit Hours	
	15
Semester Eight	
Group I (Behavioral Neuroscience/Learning) or Group II (Cognition) or Group III (Social/Personality) or Group V (Developmental) or Group VI (Clinical/Counseling)	3
Psychology (PSYC) Upper-Division Electives (30000 or 40000 level)	3
General Electives	7-9
Credit Hours	
	15
Minimum Total Credit Hours:	
	120

## Child Psychology Concentration

This roadmap is a recommended semester-by-semester plan of study for this major. However, courses designated as critical (!) must be completed in the semester listed to ensure a timely graduation.

<b>Semester One</b>		<b>Credits</b>
!	PSYC 11762 GENERAL PSYCHOLOGY (DIVD) (KSS)	3
	UC 10097 DESTINATION KENT STATE: FIRST YEAR EXPERIENCE	1
	Foreign Language	4
	Kent Core Requirement	3
	Kent Core Requirement	3
Credit Hours		14
<b>Semester Two</b>		
	PSYC 20651 CHILD PSYCHOLOGY (DIVD) (KSS)	3
	Foreign Language	4
	Kent Core Requirement	3
	Kent Core Requirement	3
	Kent Core Requirement	3
Credit Hours		16
<b>Semester Three</b>		
	PSYC 21621 QUANTITATIVE METHODS IN PSYCHOLOGY I	3
	Foreign Language	3
	Kent Core Requirement	3
	Kent Core Requirement	3
	Kent Core Requirement	3
Credit Hours		15
<b>Semester Four</b>		
	PSYC 31574 RESEARCH METHODS IN PSYCHOLOGY (ELR)	3
	Group I (Behavioral Neuroscience/Learning) or Group II (Cognition) or Group III (Social/Personality) or Group VI (Clinical/Counseling)	3
	Foreign Language	3
	Kent Core Requirement	3
	Kent Core Requirement or General Electives	3
Credit Hours		15
<b>Semester Five</b>		
	Group I (Behavioral Neuroscience/Learning) or Group II (Cognition) or Group III (Social/Personality) or Group VI (Clinical/Counseling)	3
	Group IV (Application of Psychological Science)	1-3
	College General Requirement	3
	College General Requirement	3
	General Electives	3-5
Credit Hours		15
<b>Semester Six</b>		
	Group I (Behavioral Neuroscience/Learning) or Group II (Cognition) or Group III (Social/Personality) or Group VI (Clinical/Counseling)	3
	Child Psychology Concentration Electives	6
	General Electives	6
Credit Hours		15
<b>Semester Seven</b>		
	Group I (Behavioral Neuroscience/Learning) or Group II (Cognition) or Group III (Social/Personality) or Group VI (Clinical/Counseling)	3
	Child Psychology Concentration Electives	3
	General Electives	9
Credit Hours		15
<b>Semester Eight</b>		
	Group I (Behavioral Neuroscience/Learning) or Group II (Cognition) or Group III (Social/Personality) or Group VI (Clinical/Counseling)	3

Child Psychology Concentration Electives	3
General Electives	9
Credit Hours	15
Minimum Total Credit Hours:	120

## Counseling Careers Concentration

This roadmap is a recommended semester-by-semester plan of study for this major. However, courses designated as critical (!) must be completed in the semester listed to ensure a timely graduation.

Semester One		Credits
!	PSYC 11762 GENERAL PSYCHOLOGY (DIVD) (KSS)	3
	UC 10097 DESTINATION KENT STATE: FIRST YEAR EXPERIENCE	1
	Foreign Language	4
	Kent Core Requirement	3
	Kent Core Requirement	3
Credit Hours		14
Semester Two		Credits
	PSYC 21211 PSYCHOLOGY OF EVERYDAY LIFE (DIVD) (KSS)	3
	Foreign Language	4
	Kent Core Requirement	3
	Kent Core Requirement	3
	Kent Core Requirement	3
Credit Hours		16
Semester Three		Credits
	PSYC 21621 QUANTITATIVE METHODS IN PSYCHOLOGY I	3
	Foreign Language	3
	Kent Core Requirement	3
	Kent Core Requirement	3
	Kent Core Requirement	3
Credit Hours		15
Semester Four		Credits
	PSYC 31574 RESEARCH METHODS IN PSYCHOLOGY (ELR)	3
	Group I (Behavioral Neuroscience/Learning) or Group II (Cognition) or Group III (Social/Personality) or Group V (Developmental)	3
	Foreign Language	3
	Kent Core Requirement	3
	Kent Core Requirement or General Electives	3
Credit Hours		15
Semester Five		Credits
	Group I (Behavioral Neuroscience/Learning) or Group II (Cognition) or Group III (Social/Personality) or Group V (Developmental)	3
	Group IV (Application of Psychological Science)	1-3
	College General Requirement	3
	College General Requirement	3
	General Electives	3-5
Credit Hours		15
Semester Six		Credits
	PSYC 40111 ABNORMAL PSYCHOLOGY	3
	PSYC 40231 PSYCHOLOGICAL ASSESSMENT	3
	Group I (Behavioral Neuroscience/Learning) or Group II (Cognition) or Group III (Social/Personality) or Group V (Developmental)	3
	General Electives	6
Credit Hours		15
Semester Seven		Credits
	PSYC 40383 INTRODUCTION TO CLINICAL PSYCHOLOGY	3
	Group I (Behavioral Neuroscience/Learning) or Group II (Cognition) or Group III (Social/Personality) or Group V (Developmental)	3
	General Electives	9
Credit Hours		15

### Semester Eight

Group I (Behavioral Neuroscience/Learning) or Group II (Cognition) or Group III (Social/Personality) or Group V (Developmental)	3
Counseling Careers Concentration Electives	3
General Electives	9
Credit Hours	15
Minimum Total Credit Hours:	120

## Psychology - B.S.

### College of Arts and Sciences

Department of Psychological Sciences

144 Kent Hall

Kent Campus

330-672-2166

psych@kent.edu

www.kent.edu/psychology

## Description

The Bachelor of Science in Psychology is designed to prepare students for graduate study in psychology and related fields. Topics include stress and trauma, neural basis of learning and memory, social and biological influences on mental and physical health, growth and development of children, and diagnosis and treatment of psychological disorders. Students evaluate and interpret data and gain hands-on experience conducting research. Elective courses may be used to specialize in a number of areas of psychology and related fields such as neuroscience. The degree prepares students for graduate study and employment in a range of fields, including clinical psychology, research and experimental areas of psychology such as cognitive science and behavioral neuroscience, and related fields such as medicine and neuroscience.

The Psychology major comprises the following concentrations:

- The **Child Psychology** concentration is designed to prepare students for graduate study in clinical psychology, research and experimental areas of psychology, school counseling, developmental psychology, school psychology or related disciplines that require knowledge of interpersonal relationships and human development. Topics include child development, psychological disorders of childhood and adolescence, children's cognitive processes, personality development and child-related research experience.
- The **Pre-medicine/Pre-Osteopathy** concentration prepares students for graduate study in medicine or osteopathic medicine. The concentration is designed to cover the Pre-medicine/Pre-osteopathy requirements so that students are prepared to take the Medical College Admission Test (MCAT) and have the required prerequisites necessary for applying to medical school.
- For students interested in other career paths within psychology, a 'no concentration' option provides the flexibility to prepare for those careers.

### Fully Offered At:

- Kent Campus

## Admission Requirements

The university affirmatively strives to provide educational opportunities and access to students with varied backgrounds, those with special talents and adult students who graduated from high school three or more years ago.

**Freshman Students on the Kent Campus:** The freshman admission policy on the Kent Campus is selective. Admission decisions are based upon the following: cumulative grade point average, ACT and/or SAT scores, strength of high school college preparatory curriculum and grade trends. The Admissions Office at the Kent Campus may defer the admission of students who do not meet admissions criteria but who demonstrate areas of promise for successful college study. Deferred applicants may begin their college coursework at one of seven regional campuses of Kent State University. For more information on admissions, including additional requirements for some academic programs, visit the admissions website for new freshmen.

**Freshman Students on the Regional Campuses:** Kent State campuses at Ashtabula, East Liverpool, Geauga, Salem, Stark, Trumbull and Tuscarawas, as well as the Regional Academic Center in Twinsburg, have open enrollment admission for students who hold a high school diploma, GED or equivalent.

**English Language Proficiency Requirements for International Students:** All international students must provide proof of English language proficiency (unless they meet specific exceptions) by earning a minimum 525 TOEFL score (71 on the Internet-based version), minimum 75 MELAB score, minimum 6.0 IELTS score or minimum 48 PTE score, or by completing the ESL level 112 Intensive Program. For more information on international admission, visit the Office of Global Education's admission website.

**Transfer, Transitioning and Former Students:** For more information about admission criteria for transfer, transitioning and former students, please visit the admissions website.

## Program Learning Outcomes

Graduates of this program will be able to:

1. Describe the basic theoretical perspectives, principles, concepts, empirical findings and historical trends in psychology.
2. Understand and use fundamental data analysis techniques.
3. Understand and apply basic research methods/tools in psychology and evaluate the adequacy of research designs.
4. Write effectively in the discipline.
5. Recognize, understand, and respect the complexity of sociocultural and international diversity.

## University Requirements

All students in a bachelor's degree program at Kent State University must complete the following university requirements for graduation.

**NOTE:** University requirements may be fulfilled in this program by specific course requirements. Please see Program Requirements for details.

Destination Kent State: First Year Experience

1

Course is not required for students with 25 transfer credits, excluding College Credit Plus, or age 21+ at time of admission.

Diversity Domestic/Global (DIVD/DIVG)	2 courses
Students must successfully complete one domestic and one global course, of which one must be from the Kent Core.	
Experiential Learning Requirement (ELR)	varies
Students must successfully complete one course or approved experience.	
Kent Core (see table below)	36-37
Writing-Intensive Course (WIC)	1 course
Students must earn a minimum C grade in the course.	
Upper-Division Requirement	39 (or 42)
Students must successfully complete 39 upper-division (numbered 30000 to 49999) credit hours to graduate. Students in a B.A. and/or B.S. degree in the College of Arts and Sciences must complete 42 upper-division credit hours.	
Total Credit Hour Requirement	120
Some bachelor's degrees require students to complete more than 120 credit hours.	

## Kent Core Requirements

Kent Core Composition (KCMP)	6
Kent Core Mathematics and Critical Reasoning (KMCR)	3
Kent Core Humanities and Fine Arts (KHUM/KFA) (min one course each)	9
Kent Core Social Sciences (KSS) (must be from two disciplines)	6
Kent Core Basic Sciences (KBS/KLAB) (must include one laboratory)	6-7
Kent Core Additional (KADL)	6
<b>Total Credit Hours:</b>	<b>36-37</b>

## Program Requirements

### Major Requirements

Code	Title	Credit Hours
<b>Major Requirements (courses count in major GPA)</b>		
PSYC 11762	GENERAL PSYCHOLOGY (DIVD) (KSS)	3
PSYC 21621	QUANTITATIVE METHODS IN PSYCHOLOGY I <sup>1</sup>	3
PSYC 31574	RESEARCH METHODS IN PSYCHOLOGY (ELR)	3
PSYC 31684	QUANTITATIVE METHODS IN PSYCHOLOGY II	3
PSYC 40111	ABNORMAL PSYCHOLOGY	3
PSYC 41363	BIOPSYCHOLOGY	3
Social/Personality Electives, choose from the following:		3
PSYC 31282	PERSONALITY	
PSYC 31532	SOCIAL PSYCHOLOGY	
<b>Additional Requirements (courses do not count in major GPA)</b>		
UC 10097	DESTINATION KENT STATE: FIRST YEAR EXPERIENCE	1
Foreign Language (see Foreign Language College Requirement below)		8
Kent Core Composition		6
Kent Core Humanities and Fine Arts (minimum one course from each)		9
General Electives (total credit hours depends on earning 120 credit hours, including 42 upper-division credit hours)		4
<b>Additional Requirements or Concentrations</b>		
Choose from the following:		71
Additional Requirements for Students Not Declaring a Concentration		
Child Psychology Concentration		



Pre-Medicine/Pre-Osteopathy Concentration	
Minimum Total Credit Hours:	120

<sup>1</sup> Students who are also declared in the Sociology major may substitute SOC 32220 for PSYC 21621.

### Additional Requirements for Students Not Declaring a Concentration

Code	Title	Credit Hours
<b>Major Requirements (courses count in major GPA)</b>		
ANTH, BSCI and PSYC Electives, choose from the following:		6
ANTH 48623	HUMAN VARIATION	
ANTH 48810	HUMAN PALEONTOLOGY	
BSCI 30140	CELL BIOLOGY	
BSCI 30156	ELEMENTS OF GENETICS	
BSCI 30520	INTRODUCTION TO NEUROSCIENCE	
BSCI 40515	ANIMAL BEHAVIOR	
Psychology (PSYC) Upper-Division Electives (30000 or 40000 level) <sup>1</sup>		
Application of Psychological Science Electives, choose from the following:		3-4
HONR 40099	SENIOR HONORS THESIS/PROJECT (ELR)	
PSYC 31498	UNDERGRADUATE RESEARCH (ELR) <sup>1,2</sup>	
PSYC 41498	INDIVIDUAL INVESTIGATION (ELR) <sup>1,2</sup>	
PSYC 41573	LABORATORY EXPERIENCE IN PSYCHOLOGICAL RESEARCH:SOCIAL/CLINICAL (WIC) <sup>3</sup>	
PSYC 41574	LABORATORY EXPERIENCE IN PSYCHOLOGICAL RESEARCH:COGNITIVE/LEARNING (WIC) <sup>3</sup>	
PSYC 41980	RESEARCH WRITING IN PSYCHOLOGY (WIC) <sup>3</sup>	
or PSYC 41990	WRITING IN PSYCHOLOGY (WIC)	
PSYC 42574	ADVANCED RESEARCH METHODS	
Cognition/Learning Electives, choose from the following:		6
PSYC 40445	COGNITIVE PSYCHOLOGY	
PSYC 40446	COGNITIVE NEUROSCIENCE	
PSYC 41043	BASIC LEARNING PROCESSES	
Developmental Electives, choose from the following:		3
PSYC 20651	CHILD PSYCHOLOGY (DIVD) (KSS)	
PSYC 30651	ADOLESCENT PSYCHOLOGY	
PSYC 30656	PSYCHOLOGY OF AGING	
Mathematics Electives, choose from the following:		3-5
MATH 11009	MODELING ALGEBRA (KMCR)	
MATH 11010	ALGEBRA FOR CALCULUS (KMCR)	
MATH 11022	TRIGONOMETRY (KMCR)	
MATH 12002	ANALYTIC GEOMETRY AND CALCULUS I (KMCR)	
Psychology (PSYC) Upper-Division Electives (30000 or 40000 level) <sup>1</sup>		12
Science Electives, choose from the following:		8
BSCI 10110	BIOLOGICAL DIVERSITY (KBS) (KLAB)	
BSCI 10120	BIOLOGICAL FOUNDATIONS (KBS) (KLAB)	
CHEM 10060	GENERAL CHEMISTRY I (KBS)	
CHEM 10061	GENERAL CHEMISTRY II (KBS)	
<b>Additional Requirements (courses do not count in major GPA)</b>		
Kent Core Social Science (must be from two disciplines)		3
Kent Core Additional		6

General Electives (total credit hours depends on earning 120 credit hours, including 42 upper-division credit hours)		21
Minimum Total Credit Hours:		71

- <sup>1</sup> No more than 12 credit hours of PSYC 31498, PSYC 41492 and PSYC 41498 combined may be applied towards major requirements in psychology.
- <sup>2</sup> Maximum 6 credit hours of PSYC 31498 and PSYC 41498 combined may be applied to the Application of Psychological Science area.
- <sup>3</sup> A minimum C grade must be earned to fulfill the writing-intensive requirement.

### Child Psychology Concentration Requirements

Code	Title	Credit Hours
<b>Concentration Requirements (courses count in major GPA)</b>		
PSYC 20651	CHILD PSYCHOLOGY (DIVD) (KSS)	3
Application of Psychological Science Electives, choose from the following:		3-4
HONR 40099	SENIOR HONORS THESIS/PROJECT (ELR)	
PSYC 31498	UNDERGRADUATE RESEARCH (ELR) <sup>1,2</sup>	
PSYC 41498	INDIVIDUAL INVESTIGATION (ELR) <sup>1,2</sup>	
PSYC 41573	LABORATORY EXPERIENCE IN PSYCHOLOGICAL RESEARCH:SOCIAL/CLINICAL (WIC) <sup>3</sup>	
PSYC 41574	LABORATORY EXPERIENCE IN PSYCHOLOGICAL RESEARCH:COGNITIVE/LEARNING (WIC) <sup>3</sup>	
PSYC 41980	RESEARCH WRITING IN PSYCHOLOGY (WIC) <sup>3</sup>	
or PSYC 41990	WRITING IN PSYCHOLOGY (WIC)	
PSYC 42574	ADVANCED RESEARCH METHODS	
Child Psychology Concentration Electives, choose from the following:		12
PSYC 30651	ADOLESCENT PSYCHOLOGY	
PSYC 30652	SOCIAL AND PERSONALITY DEVELOPMENT	
PSYC 30655	CHILDREN'S THINKING	
PSYC 40112	PSYCHOLOGICAL DISORDERS OF CHILDHOOD AND ADOLESCENCE	
PSYC 40382	PEDIATRIC PSYCHOLOGY	
PSYC 41395	SPECIAL TOPICS IN CHILD PSYCHOLOGY <sup>4</sup>	
Cognition/Learning Electives, choose from the following:		6
PSYC 40445	COGNITIVE PSYCHOLOGY	
PSYC 40446	COGNITIVE NEUROSCIENCE	
PSYC 41043	BASIC LEARNING PROCESSES	
Mathematics Electives, choose from the following:		3-5
MATH 11009	MODELING ALGEBRA (KMCR)	
MATH 11010	ALGEBRA FOR CALCULUS (KMCR)	
MATH 11022	TRIGONOMETRY (KMCR)	
MATH 12002	ANALYTIC GEOMETRY AND CALCULUS I (KMCR)	
Psychology (PSYC) Upper-Division Electives (30000 or 40000 level) <sup>2,5</sup>		12
Science Electives, choose from the following:		8
BSCI 10110	BIOLOGICAL DIVERSITY (KBS) (KLAB)	
BSCI 10120	BIOLOGICAL FOUNDATIONS (KBS) (KLAB)	
CHEM 10060	GENERAL CHEMISTRY I (KBS)	
CHEM 10061	GENERAL CHEMISTRY II (KBS)	
<b>Additional Requirements (courses do not count in major GPA)</b>		
Kent Core Social Science (must be from two disciplines)		3
Kent Core Additional		3

General Electives (total credit hours depends on earning 120 credit hours, including 42 upper-division credit hours) 18

Minimum Total Credit Hours: 71

<sup>1</sup> Maximum 6 credit hours of PSYC 31498 and PSYC 41498 combined may be applied to the Application of Psychological Science area.

<sup>2</sup> No more than 12 credit hours of PSYC 31498, PSYC 41492 and PSYC 41498 combined may be applied towards major requirements in psychology.

<sup>3</sup> A minimum C grade must be earned to fulfill the writing-intensive requirement.

<sup>4</sup> Maximum 9 credit hours may be applied toward concentration requirements.

<sup>5</sup> No courses listed as Child Psychology Concentration Electives may be applied toward upper-division Psychology (PSYC) electives for students declared in the Child Psychology concentration.

## Pre-Medicine/Pre-Osteopathy Concentration Requirements

Code	Title	Credit Hours
<b>Concentration Requirements (courses count in major GPA)</b>		
BSCI 10120	BIOLOGICAL FOUNDATIONS (KBS) (KLAB)	4
BSCI 30140	CELL BIOLOGY	4
BSCI 30156	ELEMENTS OF GENETICS	3
BSCI 30130	HUMAN PHYSIOLOGY	3
or BSCI 40430	ANIMAL PHYSIOLOGY	
BSCI 30171	GENERAL MICROBIOLOGY	4
CHEM 10060	GENERAL CHEMISTRY I (KBS)	4
CHEM 10061	GENERAL CHEMISTRY II (KBS)	4
CHEM 10062	GENERAL CHEMISTRY I LABORATORY (KBS) (KLAB)	1
CHEM 10063	GENERAL CHEMISTRY II LABORATORY (KBS) (KLAB)	1
CHEM 30284	INTRODUCTORY BIOLOGICAL CHEMISTRY	4
or CHEM 40245	BIOCHEMICAL FOUNDATIONS OF MEDICINE	
CHEM 30475	ORGANIC CHEMISTRY LABORATORY I (ELR)	1
CHEM 30476	ORGANIC CHEMISTRY LABORATORY II	1
MATH 12002	ANALYTIC GEOMETRY AND CALCULUS I (KMCR)	5
PHY 13001	GENERAL COLLEGE PHYSICS I (KBS)	4
PHY 13002	GENERAL COLLEGE PHYSICS II (KBS)	4
PHY 13021	GENERAL COLLEGE PHYSICS LABORATORY I (KBS) (KLAB)	1
PHY 13022	GENERAL COLLEGE PHYSICS LABORATORY II (KBS) (KLAB)	1
SOC 12050	INTRODUCTION TO SOCIOLOGY (DIVD) (KSS)	3
PSYC 41980	RESEARCH WRITING IN PSYCHOLOGY (WIC)	1
or PSYC 41990	WRITING IN PSYCHOLOGY (WIC)	
Cognition/Learning Electives, choose from the following: 3		
PSYC 40445	COGNITIVE PSYCHOLOGY	
PSYC 40446	COGNITIVE NEUROSCIENCE	
PSYC 41043	BASIC LEARNING PROCESSES	
Developmental Electives, choose from the following: 3		
PSYC 20651	CHILD PSYCHOLOGY (DIVD) (KSS)	
PSYC 30651	ADOLESCENT PSYCHOLOGY	
PSYC 30656	PSYCHOLOGY OF AGING	
Organic Chemistry, choose one of the following: 6		

CHEM 20481 & CHEM 20482 BASIC ORGANIC CHEMISTRY I and BASIC ORGANIC CHEMISTRY II

CHEM 30481 & CHEM 30482 ORGANIC CHEMISTRY I and ORGANIC CHEMISTRY II

Psychology Upper-Division Electives (PSYC 30000 or 40000 level) <sup>2</sup> 6

Minimum Total Credit Hours: 71

<sup>1</sup> A minimum C grade must be earned to fulfill the writing-intensive requirement.

<sup>2</sup> No more than 12 credit hours of PSYC 31498, PSYC 41492 and PSYC 41498 combined may be applied towards major requirements in psychology.

- While individual medical or osteopathy schools may require a variety of additional courses, the following courses are recommended and encouraged:

Code	Title	Credit Hours
BSCI 30518	VERTEBRATE ANATOMY	4
COMM 15000	INTRODUCTION TO HUMAN COMMUNICATION (KADL)	3
ECON 22060	PRINCIPLES OF MICROECONOMICS (KSS)	3
ECON 42086	ECONOMICS OF HEALTH CARE	3
PHIL 21001	INTRODUCTION TO ETHICS (DIVG) (KHUM)	3
PSYC 40111	ABNORMAL PSYCHOLOGY	3
PSYC 41363	BIOPSYCHOLOGY	3
SOC 42563	SOCIOLOGY OF HEALTH AND HEALTH CARE	3

## Graduation Requirements

Minimum Major GPA	Minimum Overall GPA
2.500	2.000

### Foreign Language College Requirement

- Students pursuing the Bachelor of Science degree in the College of Arts and Sciences must complete 8 credit hours of foreign language.<sup>1</sup>
- Minimum Elementary I and II of the same language

<sup>1</sup> All students with prior foreign language experience should take the foreign language placement test to determine the appropriate level at which to start. Some students may begin their university foreign language experience beyond the Elementary I level and will complete the requirement with fewer credit hours and fewer courses. This may be accomplished by: (1) passing a course beyond the Elementary I through Intermediate II level or (2) receiving credit through Credit by Exam (CBE), the College Level Examination Program (CLEP), the Advanced Placement (AP) exam or credit through the International Baccalaureate (IB) program; or (3) being designated a 'native speaker' of a non-English language (consult with the College of Arts and Sciences Advising Office for additional information). When students complete the requirement with fewer than 8 credit hours and two courses, they will complete the remaining hours with general electives.

## Roadmaps

- Psychology Major (no concentration)
- Child Psychology Concentration
- Pre-Medicine/Pre-Podiatry Concentration

### PSYCHOLOGY MAJOR (NO CONCENTRATION)

This roadmap is a recommended semester-by-semester plan of study for this major. However, courses designated as critical (!) must be completed in the semester listed to ensure a timely graduation.

<b>Semester One</b>		<b>Credits</b>
Science Elective		4
PSYC 11762	GENERAL PSYCHOLOGY (DIVD) (KSS)	3
UC 10097	DESTINATION KENT STATE: FIRST YEAR EXPERIENCE	1
Kent Core Requirement		3
Kent Core Requirement		3
Credit Hours		14
<b>Semester Two</b>		
Science Elective		4
Mathematics Elective		3-5
Developmental Elective		3
Kent Core Requirement		3
Kent Core Requirement		3
Credit Hours		16
<b>Semester Three</b>		
PSYC 21621	QUANTITATIVE METHODS IN PSYCHOLOGY I	3
Cognition/Learning Elective		3
Foreign Language		4
Kent Core Requirement		3
Kent Core Requirement		3
Credit Hours		16
<b>Semester Four</b>		
PSYC 31574	RESEARCH METHODS IN PSYCHOLOGY (ELR)	3
Foreign Language		4
Kent Core Requirement		3
Kent Core Requirement		3
Credit Hours		13
<b>Semester Five</b>		
PSYC 40111	ABNORMAL PSYCHOLOGY	3
Psychology (PSYC) Upper-Division Electives (30000 or 40000 level)		6
Social/Personality Elective		3
General Electives		3
Credit Hours		15
<b>Semester Six</b>		
PSYC 31684	QUANTITATIVE METHODS IN PSYCHOLOGY II	3
PSYC 41363	BIOPSYCHOLOGY	3
Application of Psychological Science Electives		3
General Electives		6
Credit Hours		15
<b>Semester Seven</b>		
ANTH, BSCI or PSYC electives		3
Psychology (PSYC) Upper-Division Electives (30000 or 40000 level)		3
Cognition/Learning Elective		3

General Electives	6
Credit Hours	15
<b>Semester Eight</b>	
ANTH, BSCI or PSYC Electives	3
Psychology (PSYC) Upper-Division Electives (30000 or 40000 level)	3
General Electives	10
Credit Hours	16
Minimum Total Credit Hours:	120

## Child Psychology Concentration

This roadmap is a recommended semester-by-semester plan of study for this major. However, courses designated as critical (!) must be completed in the semester listed to ensure a timely graduation.

General Electives	10
Credit Hours	16
Minimum Total Credit Hours:	120

Semester One		Credits
PSYC 11762	GENERAL PSYCHOLOGY (DIVD) (KSS)	3
UC 10097	DESTINATION KENT STATE: FIRST YEAR EXPERIENCE	1
Science Elective		4
Kent Core Requirement		3
Kent Core Requirement		3
Credit Hours		14
Semester Two		Credits
PSYC 20651	CHILD PSYCHOLOGY (DIVD) (KSS)	3
Mathematics Elective		3-5
Science Elective		4
Kent Core Requirement		3
Kent Core Requirement		3
Credit Hours		16
Semester Three		Credits
PSYC 21621	QUANTITATIVE METHODS IN PSYCHOLOGY I	3
Cognition/Learning Elective		3
Psychology (PSYC) Upper-Division Electives (30000 or 40000 level)		3
Foreign Language		4
Kent Core Requirement		3
Credit Hours		16
Semester Four		Credits
PSYC 31574	RESEARCH METHODS IN PSYCHOLOGY (ELR)	3
Psychology (PSYC) Upper-Division Electives (30000 or 40000 level)		3
Foreign Language		4
Kent Core Requirement		3
Credit Hours		13
Semester Five		Credits
PSYC 40111	ABNORMAL PSYCHOLOGY	3
Child Psychology Concentration Electives		3
Social/Personality Elective		3
Kent Core Requirement		3
General Electives		3
Credit Hours		15
Semester Six		Credits
PSYC 31684	QUANTITATIVE METHODS IN PSYCHOLOGY II	3
Psychology (PSYC) Upper-Division Electives (30000 or 40000 level)		3
Application of Psychological Science Elective		3
General Electives		6
Credit Hours		15
Semester Seven		Credits
PSYC 41363	BIOPSYCHOLOGY	3
Child Psychology Concentration Electives		3
Cognition/Learning Elective		3
Psychology (PSYC) Upper-Division Electives (30000 or 40000 level)		3
General Electives		3
Credit Hours		15
Semester Eight		Credits
Child Psychology Concentration Electives		6

## Pre-Medicine and Pre-Osteopathy Concentration

This roadmap is a recommended semester-by-semester plan of study for this major. However, courses designated as critical (!) must be completed in the semester listed to ensure a timely graduation.

Semester One		Credits
BSCI 10120	BIOLOGICAL FOUNDATIONS (KBS) (KLAB)	4
CHEM 10060	GENERAL CHEMISTRY I (KBS)	4
CHEM 10062	GENERAL CHEMISTRY I LABORATORY (KBS) (KLAB)	1
PSYC 11762	GENERAL PSYCHOLOGY (DIVD) (KSS)	3
UC 10097	DESTINATION KENT STATE: FIRST YEAR EXPERIENCE	1
Kent Core Requirement		3
Credit Hours		16
Semester Two		
BSCI 30156	ELEMENTS OF GENETICS	3
CHEM 10061	GENERAL CHEMISTRY II (KBS)	4
CHEM 10063	GENERAL CHEMISTRY II LABORATORY (KBS) (KLAB)	1
MATH 12002	ANALYTIC GEOMETRY AND CALCULUS I (KMCR)	5
Kent Core Requirement		3
Credit Hours		16
Semester Three		
BSCI 30140	CELL BIOLOGY	4
CHEM 20481	BASIC ORGANIC CHEMISTRY I or or ORGANIC CHEMISTRY I CHEM 30481	3-4
CHEM 30475	ORGANIC CHEMISTRY LABORATORY I (ELR)	1
PSYC 21621	QUANTITATIVE METHODS IN PSYCHOLOGY I	3
SOC 12050	INTRODUCTION TO SOCIOLOGY (DIVD) (KSS)	3
Credit Hours		14
Semester Four		
CHEM 20482	BASIC ORGANIC CHEMISTRY II or or ORGANIC CHEMISTRY II CHEM 30482	2-3
CHEM 30476	ORGANIC CHEMISTRY LABORATORY II	1
PSYC 31574	RESEARCH METHODS IN PSYCHOLOGY (ELR)	3
PSYC 41980	RESEARCH WRITING IN PSYCHOLOGY (WIC) or or WRITING IN PSYCHOLOGY (WIC) PSYC 41990	1
Developmental Elective		3
Kent Core Requirement		3
Credit Hours		14
Semester Five		
BSCI 30171	GENERAL MICROBIOLOGY	4
BSCI 30130	HUMAN PHYSIOLOGY or or ANIMAL PHYSIOLOGY BSCI 40430	3
PHY 13001	GENERAL COLLEGE PHYSICS I (KBS)	4
PHY 13021	GENERAL COLLEGE PHYSICS LABORATORY I (KBS) (KLAB)	1
Cognition/Learning Elective		3
Credit Hours		15
Semester Six		
CHEM 30284	INTRODUCTORY BIOLOGICAL CHEMISTRY or or BIOCHEMICAL FOUNDATIONS OF CHEM 40245 MEDICINE	4
PHY 13002	GENERAL COLLEGE PHYSICS II (KBS)	4

PHY 13022	GENERAL COLLEGE PHYSICS LABORATORY II (KBS) (KLAB)	1
PSYC 31684	QUANTITATIVE METHODS IN PSYCHOLOGY II	3
Social/Personality Elective		3
Credit Hours		15
Semester Seven		
PSYC 40111	ABNORMAL PSYCHOLOGY	3
PSYC 41363	BIOPSYCHOLOGY	3
Foreign Language		4
Kent Core Requirement		3
Kent Core Requirement		3
Credit Hours		16
Semester Eight		
Psychology (PSYC) Upper-Division Electives (30000 or 40000 level)		6
Foreign Language		4
General Electives		4
Credit Hours		14
Minimum Total Credit Hours:		120

## Psychology - Minor

### College of Arts and Sciences

Department of Psychological Sciences

144 Kent Hall

Kent Campus

330-672-2166

psych@kent.edu

www.kent.edu/psychology

## Description

The Psychology minor gives students an overview of the major concepts, theories and methods of the discipline of psychology. Students are able to understand the relevance of psychological concepts and perspectives to understanding and explaining thoughts, emotions and behavior and applying that knowledge to real-world settings. Students are encouraged to use the elective courses in the minor to complement their major area of study as psychology is relevant for many careers, including nursing, business, teaching, biology, human services, justice studies and sociology.

### Fully Offered At:

- Ashtabula Campus
- East Liverpool Campus
- Geauga Campus
- Kent Campus
- Salem Campus
- Stark Campus
- Trumbull Campus
- Tuscarawas Campus

## Admission Requirements

Admission to a minor is open to students declared in a bachelor's degree, the A.A.B. or A.A.S. degree or the A.T.S. degree (not Individualized Program major). Students declared only in the A.A. or A.S. degree or the



A.T.S. degree in Individualized Program may not declare a minor. Students may not pursue a minor and a major in the same discipline.

## Minor Requirements

Code	Title	Credit Hours
<b>Minor Requirements</b>		
PSYC 11762	GENERAL PSYCHOLOGY (DIVD) (KSS)	3
PSYC 21621	QUANTITATIVE METHODS IN PSYCHOLOGY I <sup>1</sup>	3
PSYC 31574	RESEARCH METHODS IN PSYCHOLOGY (ELR)	3
Psychology (PSYC) Electives <sup>2</sup>		12
Minimum Total Credit Hours:		21

<sup>1</sup> Students who are declared in the Sociology major may substitute SOC 32220 for PSYC 21621.

<sup>2</sup> Maximum 3 credit hours of PSYC 31498, PSYC 41492, PSYC 41495, PSYC 41498 and PSYC 41574 combined may be applied toward minor requirements. Minimum 9 credit hours of upper division courses (30000 and 40000 level) must be completed.

## Graduation Requirements

Minimum Minor GPA	Minimum Overall GPA
2.000	2.000

- Students must complete at least two upper-division (30000 or 40000 level) courses in the minor at Kent State on a graded basis (A-F).
- Minimum 6 credit hours in the minor must be upper-division coursework (30000 and 40000 level).
- Minimum 6 credit hours in the minor must be outside of the course requirements for any major or other minor the student is pursuing.
- Minimum 50 percent of the total credit hours for the minor must be taken at Kent State (in residence).

## Department of Sociology

### College of Arts and Sciences

Department of Sociology  
215 Merrill Hall  
Kent Campus  
330-672-2562  
[www.kent.edu/sociology](http://www.kent.edu/sociology)

## Undergraduate Programs

- Criminology and Justice Studies - B.A.
- Sociology - B.A.

## Minors

- Criminology and Justice Studies
- Sociology

## Graduate Programs

- Criminology and Criminal Justice - M.A.
- Sociology - M.A.
- Sociology - Ph.D.

## Department of Sociology Faculty

- Adams, Richard E. (2007), Professor & Chair, Ph.D., Indiana University, Bloomington, 1989
- Berard, Timothy J. (2002), Associate Professor, Ph.D., Boston University, 2001
- Bergin, Tiffany (2013), Assistant Professor, Ph.D., University of Cambridge, 2011
- Bloch, Katrina R. (2008), Associate Professor, Ph.D., North Carolina State University, 2009
- Callanan, Valerie (2005), Professor
- Campbell, Beth A. (2005), Professor, Ph.D., University of Akron, 2018
- Catto, Rebecca (2016), Assistant Professor
- Chopko, Brian A. (2007), Professor, Ph.D., University of Akron, 2007
- Drinkard, Allyson M. (2000), Assistant Professor, Ph.D., Kent State University, 2012
- Drum, Marna C. (2003), Senior Lecturer, M.A., University of Akron, 1994
- Dum, Christopher (2014), Assistant Professor, Ph.D., University at Albany, SUNY, 2014
- Fisk, Susan R. (2015), Assistant Professor, Ph.D., Stanford University, 2015
- Foster, Michelle L. (2010), Assistant Professor, M.A., Kent State University, 2011
- Gallagher, Mary N. (2001), Associate Professor, Ph.D., Kent State University, 2012
- Gibson, Gregory C. (2012), Associate Professor, Ph.D., Purdue University, 2008
- Globokar, Julie L. (2011), Associate Professor, University of Illinois at Chicago
- Goar, Carla D. (2010), Associate Professor, Ph.D., Texas A&M University, 2000
- Graff, David R. (1994), Senior Lecturer, M.S., Mercyhurst College, 1984
- Haas, Anne E. (1996), Associate Professor, Ph.D., The Ohio State University, 2005
- Jones, Adrian M. (2001), Associate Professor, Ph.D., Kent State University, 2002
- Kalkhoff, William W. (2002), Professor, Ph.D., University of Iowa, 2002
- Kessler, David A. (1995), Associate Professor, Ph.D., Indiana University
- Kunkle, Susan M. (2004), Associate Professor, Ph.D., Kent State University, 2011
- Leveto, Jessica A. (2005), Associate Professor, Ph.D., Kent State University, 2012
- Licuanan-Galela, Maria N. (1995), Associate Professor, Ph.D., University of Illinois, Urbana-Champaign, 1995
- Lowery, Allen (2014), Assistant Professor
- Marcussen, Kristen A. (2000), Associate Professor, Ph.D., University of Iowa, 2000
- Mastriacovo, Paul A. (1982), Senior Lecturer, J.D., University of Akron, 1978
- Nasher, Hedieh (1990), Professor
- Owens, Timothy J. (2010), Professor, Ph.D., University of Minnesota-Twin Cities, 1988
- Pai, Manacy (2008), Associate Professor, Ph.D., Florida State University, 2008

- Pollock, Joshua W. (2014), Assistant Professor, Ph.D., University of Akron, 2014
- Purifoye, Gwendolyn (2014), Assistant Professor, Ph.D., Loyola University Chicago, 2014
- Rawlings, Lynette M. (2007), Senior Lecturer, M.P.A., Kent State University, 2006
- Ray, Kasey (2015), Assistant Professor, Ph.D., University of Akron, 2015
- Robinson, Kristenne M. (2019), Assistant Professor
- Rose, Lydia (2010), Assistant Professor, Ph.D., Purdue University, 1997
- Rose, Norman R. (2007), Associate Professor
- Roxburgh, Susan J. (1994), Professor
- Schiller, J. Zach (2006), Assistant Professor, Ph.D., University of California, Davis, 2005
- Shura, Robin A. (2018), Assistant Professor, Ph.D., Case Western Reserve, 2010
- Solomon, Starr (2018), Assistant Professor, Ph.D., University of Nebraska Omaha, 2018
- Spates, Kamesha (2013), Assistant Professor, Ph.D., Texas A&M University, Corpus Christi, 2009
- Stacey, Clare L. (2006), Associate Professor, Ph.D., University of California, Davis, 2004
- Taylor, Tiffany L. (2008), Associate Professor, Ph.D., North Carolina State University at Raleigh, 2008
- Tontodonato, Pamela (1987), Associate Professor, Ph.D., University of Pennsylvania, 1986
- Vander Horst, Anthony (2011), Associate Professor, The Ohio State University, 2012
- Warren, Deirdre M. (2009), Associate Professor, Ph.D., Sam Houston State University, 2009
- Wilson, Mary G. (1998), Associate Professor, Ph.D., Kent State University, 2010

## Criminology and Justice Studies (CRIM)

### CRIM 12000 INTRODUCTION TO JUSTICE STUDIES 3 Credit Hours

Surveys the U.S. criminal justice system and its component institutions and processes, including overviews of policing, corrections, courts, and their inter-relations in the criminal justice system. An overview is also provided of the nature and measurement of crime, patterns of offending and victimization, and criminal justice responses to offending and victimization. Historical and emerging issues are introduced including a variety of insights related to effective, professional and ethical practices in criminal justice.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** TAG Social and Behavioral Sciences

### CRIM 22100 BASIC INTERVIEWING 3 Credit Hours

Foundation of basic interviewing principles, including communication models, question format, distortions, topic control, inhibitors, facilitators, listening, types of interviews and practical exercises.

**Prerequisite:** CRIM 12000.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

### CRIM 22300 POLICE ROLE 3 Credit Hours

Systematic analysis of the police role. An examination of the related research with an emphasis on divergent perspective and development of conceptual models.

**Prerequisite:** CRIM 12000.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** TAG Social and Behavioral Sciences

### CRIM 22301 THE INVESTIGATIVE PROCESS 3 Credit Hours

An examination of established investigative processes, techniques employed in conducting a systematic investigation and legal implications.

**Prerequisite:** CRIM 12000.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

### CRIM 26701 CORRECTIONS 3 Credit Hours

Course topics include history of corrections, punishment, community corrections, correctional institutions, correctional administration, issues in corrections, and future trends of corrections.

**Prerequisite:** CRIM 12000.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** TAG Social and Behavioral Sciences

### CRIM 26704 ISSUES IN LAW AND SOCIETY (KSS) 3 Credit Hours

General treatment of the legal system with special emphasis on its origin, structure and functional consequences on issues and problems in modern society.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Kent Core Social Sciences, Transfer Module Social Sciences

### CRIM 27095 SPECIAL TOPICS IN CRIMINOLOGY AND JUSTICE STUDIES 2,3 Credit Hours

(Repeatable for a maximum of 6 credit hours) Intensive analysis of issues significant and current in the field which are not covered in regular courses.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 2-3 lecture

**Grade Mode:** Standard Letter

### CRIM 27311 VICTIMOLOGY 3 Credit Hours

Patterns of victim-offender relationship and process of victimization. Role of victims in criminal process. Problems of adjustment to victimization and issues in victim compensation.

**Prerequisite:** CRIM 12000.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CRIM 32200 POLICE AND COMMUNITY 3 Credit Hours**

An examination of the rights of individuals, citizen involvement, the police as members of the community, and the development implementation and evaluation of related programs.

**Prerequisite:** CRIM 12000 and CRIM 22300; and sophomore standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CRIM 32500 CRISIS INTERVENTION 3 Credit Hours**

Crisis intervention situations in criminal justice are considered. The service role of criminal justice personnel, community resources and skill development are also considered.

**Prerequisite:** CRIM 12000; and CRIM 22300 or CRIM 27311; and sophomore standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CRIM 33200 CRIMINAL LAW 3 Credit Hours**

Developmental backgrounds and principles of criminal law; structure, functions of criminal law; rules of criminal liability and procedural requisites in criminal proof. Case analysis included.

**Prerequisite:** CRIM 12000.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CRIM 33300 DEVELOPMENT OF JUSTICE IN AMERICA 3 Credit Hours**

Course focuses on the evolution of the criminal justice process from its establishment in the United States to the present.

**Prerequisite:** CRIM 12000; and sophomore standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CRIM 33400 CRIME AND JUSTICE IN POPULAR CULTURE 3 Credit Hours**

Crime and criminal justice as they are socially constructed and portrayed in popular culture including television, news and entertainment, popular film and other media of popular culture. Critical analysis of relations between popular culture, media institutions, crime and justice. Role of popular culture media in shaping public opinions about crime and justice, and in turn the relevance of public opinion for understanding criminal justice politics and policy.

**Prerequisite:** CRIM 12000; and sophomore standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CRIM 34200 CRIMINAL PROCEDURES AND EVIDENCE 3 Credit Hours**

This course focuses on the use of evidence and the legal procedures followed in the processing of criminal cases. Case analysis and writing assignments required.

**Prerequisite:** CRIM 12000 or PLST 18000.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CRIM 34311 YOUTH AND THE JUSTICE SYSTEM 3 Credit Hours**

Analysis of situations involving the legal rights of children and youths, which demand intervention by justice institutions or service agencies.

**Prerequisite:** CRIM 12000.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CRIM 34500 UNDERSTANDING CRIMINAL LAW THROUGH FICTION 3 Credit Hours**

Exploration of legal concepts and their application as reflected in popular and literary fiction. Legal analysis of important issues involving criminal and civil law, criminal and civil procedures, evidence, courts and related legal topics. Application of legal issues and procedures to real life situations.

**Prerequisite:** CRIM 12000 and CRIM 26704; and junior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CRIM 36702 CRIMINOLOGY 3 Credit Hours**

Examines crime from the legal and social viewpoints; including extent and patterns of criminal behavior. Special emphasis on theoretical explanations of criminal behavior and crime rates.

**Prerequisite:** CRIM 12000 or SOC 12050; and junior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** CTAG Criminal Justice, TAG Social and Behavioral Sciences

**CRIM 36703 JUVENILE DELINQUENCY 3 Credit Hours**

Social and personal factors in juvenile delinquency; operation of juvenile justice system; prevention and control of delinquency.

**Prerequisite:** CRIM 12000 and CRIM 36702.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CRIM 36800 LGBTQ POPULATIONS IN THE JUSTICE SYSTEM 3 Credit Hours**

This course explores research on LGBTQ (lesbian, gay, bisexual, transgender, and queer) populations in the juvenile and criminal justice systems. Students will examine the role that sexual orientation, gender identity, and gender expression play in the juvenile and criminal justice system, with particular attention given to the experiences of LGBTQ people within these institutions. Drawing on sociological theories of sex and gender and queer criminology, the course will review historical trends in the treatment of LGBTQ people in the justice systems, circumstances facing LGBTQ populations (sexual assault, harassment, hate crimes, institutional discrimination), and policy developments and innovations.

**Prerequisite:** SOC 12050 or CRIM 12000; and sophomore standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CRIM 37091 SEMINAR IN CRITICAL ISSUES IN CRIMINOLOGY AND JUSTICE STUDIES 1-3 Credit Hours**

(Repeatable for credit) Intense analysis of issues significant and current in the justice field which are not covered in regular courses.

**Prerequisite:** CRIM 12000; and sophomore standing.

**Schedule Type:** Seminar

**Contact Hours:** 1-3 other

**Grade Mode:** Standard Letter-IP

**CRIM 37095 SPECIAL TOPICS IN CRIMINOLOGY AND JUSTICE STUDIES 3 Credit Hours**

(Repeatable for a maximum of 6 credit hours) Intensive analysis of issues significant and current in the field which are not covered in regular courses. Repeatable for a total of 6 hours.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CRIM 37311 MINORITIES IN CRIME AND JUSTICE (DIVD) 3 Credit Hours**

Focus on the role of social and ethnic minorities as victims, offenders and participants in the justice process.

**Prerequisite:** Junior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Diversity Domestic

**CRIM 37411 WOMEN IN CRIME AND JUSTICE (DIVD) 3 Credit Hours**

Women as a significant group in crime and their role in the development and operation of the criminal justice system.

**Prerequisite:** Junior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Diversity Domestic

**CRIM 37511 IMMIGRATION: LAW, CRIME AND JUSTICE (DIVD) 3 Credit Hours**

Covers issues of immigration related to law, crime, and justice. Students will be introduced to issues of international diversity through the consideration of issues of law, criminal justice, and social justice related to immigration. Topics to be covered include legal and illegal immigration, immigration law enforcement, immigrants as criminal offenders and as crime victims, police-community relations, immigrants in correctional or detention facilities, and immigration as a national security concern and controversy.

**Prerequisite:** Junior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Diversity Domestic

**CRIM 44400 JUSTICE ADMINISTRATION 3 Credit Hours**

Identification of administrative and management functions, leadership management styles and supervision of personnel in justice organizations.

**Prerequisite:** CRIM 12000; and CRIM 22300 (or CRIM 26701); and CRIM 26704.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CRIM 45093 VARIABLE TITLE WORKSHOP IN CRIMINOLOGY AND JUSTICE STUDIES 1-6 Credit Hours**

(Repeatable for credit) (Slashed with CRIM 55093)

**Prerequisite:** Special approval.

**Schedule Type:** Workshop

**Contact Hours:** 1-6 other

**Grade Mode:** Satisfactory/Unsatisfactory

**CRIM 45096 INDIVIDUAL INVESTIGATION 1-3 Credit Hours**

(Repeatable for a maximum of 6 credit hours when topic varies) Involves an individual research project of considerable depth in a subject area not covered by regular course offerings. Prior consent of supervising faculty member is required.

**Prerequisite:** CRIM 12000 and 26704; and SOC 32210; and junior standing; and special approval.

**Schedule Type:** Individual Investigation

**Contact Hours:** 3-9 other

**Grade Mode:** Standard Letter-IP

**CRIM 46200 ADVANCED CRIMINAL AND LEGAL ISSUES 3 Credit Hours**

Focuses on reading, analyzing, and discussing current criminal, evidentiary and procedural issues as set forth in recent and historical U.S. Supreme Court cases. Case analysis, discussion and writing assignments are required.

**Prerequisite:** CRIM 12000 or PLST 18000; and junior standing.

**Schedule Type:** Seminar

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**CRIM 46701 CRIME, JUSTICE AND SUBSTANCE ABUSE 3 Credit Hours**

(Slashed with CRIM 56701) Examination of the relationship between drug and alcohol abuse and criminal behavior. Efforts to regulate, control, prevent and treat chemical abuse offenders are considered.

**Prerequisite:** CRIM 12000 and CRIM 26704.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CRIM 46705 COMMUNITY CORRECTIONS 3 Credit Hours**

(Slashed with CRIM 56705) This course is devoted to an examination of formal and informal approaches to correctional supervision and treatment through probation, parole and community residential treatment.

**Prerequisite:** CRIM 12000 and CRIM 26701.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CRIM 46707 CORRECTIONAL INSTITUTIONS 3 Credit Hours**

A thorough examination of the correctional institution, including the structure and organization, personnel, inmate social world and examination of the issues in contemporary correctional institutions.

**Prerequisite:** CRIM 12000 and CRIM 26701.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CRIM 46708 TREATMENT METHODS 3 Credit Hours**

(Slashed with CRIM 56708) Various methods of treatment are applied to corrections field. Focus is on specific techniques in community and institutional correctional settings. Direct observation utilized when possible.

**Prerequisite:** CRIM 12000 and 26701; and junior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CRIM 46792 INTERNSHIP (ELR) 3-9 Credit Hours**

(Repeatable for a maximum of 12 credit hours) Work experience under direction of supervising faculty member in a private, federal, state or local justice agency or law agency. Students must have a 2.000 major GPA in Criminology and Justice Studies (CRJU) to enroll in this course.

**Prerequisite:** 9 credit hours of Criminology and Justice studies coursework, including CRIM 12000; and a minimum 2.000 overall GPA; and junior standing; and special approval.

**Schedule Type:** Practical Experience

**Contact Hours:** 3-9 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**Attributes:** Experiential Learning Requirement

**CRIM 46798 RESEARCH IN CRIMINOLOGY AND JUSTICE STUDIES (ELR) 3-12 Credit Hours**

(Repeatable for a maximum of 12 credit hours) Individual research under direct supervision of a faculty member to provide direct hands-on research experience working on faculty research projects. Prior consent of supervising faculty member is required. Only 6 hours of nontraditional coursework can count towards the major.

**Prerequisite:** CRIM 12000 and CRIM 26704; and SOC 32210; and special approval.

**Schedule Type:** Research

**Contact Hours:** 3-12 other

**Grade Mode:** Standard Letter-IP

**Attributes:** Experiential Learning Requirement

**CRIM 46800 INTELLIGENCE AND NATIONAL SECURITY 3 Credit Hours**

(Slashed with CRIM 56800) Addresses topics related to global security, including economic and industrial espionage, trade secret thefts, law and technology and cyber-crimes. Implications of industrial espionage and intellectual property theft for the global economy, national and international security, and the control and regulation of white collar crime. Foundational exploration of Intelligence and Counterintelligence (IC) as concepts, processes and careers.

**Prerequisite:** CRIM 12000; and junior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CRIM 46801 HOMELAND SECURITY 3 Credit Hours**

(Slashed with CRIM 56801) Explores the nexus between terrorism and homeland security as it relates to homeland security strategy, assessment, evaluation, preparation, responses, and recovery actions and mechanisms relating to terrorism and homeland security. There is a focus on the importance of coordination of various assessments, plans, strategies and implementation of plans of action involving local, county, state, federal and international responses pertaining to terrorism and homeland security.

**Prerequisite:** CRIM 12000; and junior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CRIM 46802 TERRORISM AND COUNTERTERRORISM 3 Credit Hours**

(Slashed with CRIM 56802) Examines the origins and evolution of modern terrorism, challenges posed by terrorist groups to states and to the international system, and strategies employed to confront and combat terrorism. Assesses a wide variety of terrorist organizations, and explores the psychological, socioeconomic, political, and religious causes of terrorist violence past and present. Also analyzes the strengths and weaknesses of various counterterrorism efforts.

**Prerequisite:** CRIM 12000; and junior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CRIM 46803 INFORMATION AND CYBER SECURITY 3 Credit Hours**

(Slashed with CRIM 56803) Vulnerabilities of computer networks and techniques for protecting networks and data are discussed. Basic elements of symmetric and asymmetric cryptography, secure e-commerce, involving secure transmission, authentication, digital signatures, digital certificates and Public Key Infrastructure (PKI) are presented. Provides students with an introduction to the field of information security risk assessment. Incorporates cases in risk analysis derived from actual state and law enforcement agencies or private firms.

**Prerequisite:** CRIM 12000; and junior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CRIM 46904 ISSUES IN POLICE WORK 3 Credit Hours**

(Slashed with CRIM 56904) Analysis of police practices and functions at the municipal, state and federal level. Examination of emerging trends and issues in policing. Review of changes in police department policies and research on problem-solving in policing.

**Prerequisite:** CRIM 12000 and CRIM 22300; and junior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CRIM 47002 HUMAN SERVICE AGENCIES AND THE LAW 3 Credit Hours**

(Slashed with CRIM 57002) An overview of the law as it pertains to human service agencies, as well as on the relationships between such agencies and the criminal and juvenile justice systems. Focused attention is given to agencies that closely connect with vulnerable populations (such as children and the poor) and those that work closely with policing and corrections (such as mental health agencies and halfway houses).

**Prerequisite:** CRIM 12000; and junior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CRIM 47003 RESTORATIVE JUSTICE AND VICTIM ASSISTANCE 3 Credit Hours**

(Slashed with CRIM 57003) An inquiry into the theories and research in restorative justice, as well as an assessment of victim assistance protocols and programs. Examines restorative justice and victim assistance initiatives that provide an alternative framework for dealing with crime that places victim needs in a primary position, while addressing legal concerns and interagency differences.

**Prerequisite:** CRIM 12000 and CRIM 27311; and junior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter



**CRIM 47004 LEGAL PERSPECTIVES AND RIGHTS IN VICTIMIZATION 3 Credit Hours**

(Slashed with CRIM 57004) An analysis of the legal rights of victims of crime at state and federal levels as well as a review of how these laws relate to the treatment of victims within the criminal and juvenile justice systems, with particular focus on the courts and correctional institutions. Relevant legislative and Constitutional changes and challenges are also addressed.

**Prerequisite:** CRIM 12000 and CRIM 27311; and junior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CRIM 47095 SPECIAL TOPICS IN CRIMINOLOGY AND JUSTICE STUDIES 3 Credit Hours**

(Repeatable for credit) Intensive analysis of issues significant and current in the field which are not covered in regular courses.

**Prerequisite:** CRIM 12000 and 26704.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CRIM 47211 COURT FUNCTIONS 3 Credit Hours**

Analysis of the structure, functions and critical role of incumbents in the criminal court.

**Prerequisite:** CRIM 12000 and 26704.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CRIM 47311 COMPARATIVE JUSTICE SYSTEMS 3 Credit Hours**

A systematic comparison of the developmental backgrounds, structure and functioning of the major systems of justice in the modern world.

**Prerequisite:** CRIM 12000 and CRIM 26704.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CRIM 55093 VARIABLE TITLE WORKSHOP IN CRIMINOLOGY AND JUSTICE STUDIES 1-3 Credit Hours**

(Repeatable for credit) (Slashed with CRIM 45093) Classroom presentations and field study focused on professional and disciplinary concerns. Specific content varies with workshop topic.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Workshop

**Contact Hours:** 1-3 other

**Grade Mode:** Satisfactory/Unsatisfactory

**CRIM 56701 CRIME, JUSTICE AND SUBSTANCE ABUSE 3 Credit Hours**

(Slashed with CRIM 46701) Examination of the relationship between drug and alcohol abuse and criminal behavior. Efforts to regulate, control, prevent and treat chemical abuse offenders are considered.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CRIM 56705 COMMUNITY CORRECTIONS 3 Credit Hours**

(Slashed with CRIM 46705) Study of community-based correctional supervision and treatment, examining probation, parole, and related residential programs. Topics covered include the history and organization of, and best practices in, community corrections.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CRIM 56708 TREATMENT METHODS 3 Credit Hours**

(Slashed with CRIM 46708) Addresses institutional- and community-based treatment of offenders. Coverage includes the theoretical foundations of treatment and common intervention strategies, including evidence-based practices.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CRIM 56709 EMERGING TRENDS AND ISSUES IN CORRECTIONS 3 Credit Hours**

Explores recent developments pertinent to the field of corrections, including sentencing trends, innovative practices, and legal developments. Analysis of emerging strategies for offender treatment, re-entry, and institutional and community safety.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CRIM 56800 INTELLIGENCE AND NATIONAL SECURITY 3 Credit Hours**

(Slashed with CRIM 46800) Addresses topics related to global security, including economic and industrial espionage, trade secret thefts, law and technology and cyber-crimes. Implications of industrial espionage and intellectual property theft for the global economy, national and international security, and the control and regulation of white collar crime. Foundational exploration of Intelligence and Counterintelligence (IC) as concepts, processes and careers.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CRIM 56801 HOMELAND SECURITY 3 Credit Hours**

(Slashed with CRIM 46801) Explores the nexus between terrorism and homeland security as it relates to homeland security strategy, assessment, evaluation, preparation, responses, and recovery actions and mechanisms relating to terrorism and homeland security. There is a focus on the importance of coordination of various assessments, plans, strategies and implementation of plans of action involving local, county, state, federal and international responses pertaining to terrorism and homeland security.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CRIM 56802 TERRORISM AND COUNTERTERRORISM 3 Credit Hours**  
(Slashed with CRIM 46802) Examines the origins and evolution of modern terrorism, challenges posed by terrorist groups to states and to the international system, and strategies employed to confront and combat terrorism. Assesses a wide variety of terrorist organizations, and explores the psychological, socioeconomic, political, and religious causes of terrorist violence past and present. Also analyzes the strengths and weaknesses of various counterterrorism efforts.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CRIM 56803 INFORMATION AND CYBER SECURITY 3 Credit Hours**

(Slashed with CRIM 46803) Vulnerabilities of computer networks and techniques for protecting networks and data are discussed. Basic elements of symmetric and asymmetric cryptography, secure e-commerce, involving secure transmission, authentication, digital signatures, digital certificates and Public Key Infrastructure (PKI) are presented. Provides students with an introduction to the field of information security risk assessment. Incorporates cases in risk analysis derived from actual state and law enforcement agencies or private firms.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CRIM 56904 ISSUES IN POLICE WORK 3 Credit Hours**

(Slashed with CRIM 46904) Analysis of police practices and functions at the municipal, state and federal level. Examination of emerging trends and issues in policing. Review of changes in police department policies and research on problem-solving in policing.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CRIM 57002 HUMAN SERVICE AGENCIES AND THE LAW 3 Credit Hours**

(Slashed with CRIM 47002) An overview of the law as it pertains to human service agencies, as well as on the relationships between such agencies and the criminal and juvenile justice systems. Focused attention is given to agencies that closely connect with vulnerable populations (such as children and the poor) and those that work closely with policing and corrections (such as mental health agencies and halfway houses).

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CRIM 57003 RESTORATIVE JUSTICE AND VICTIM ASSISTANCE 3 Credit Hours**

(Slashed with CRIM 47003) An inquiry into the theories and research in restorative justice, as well as an assessment of victim assistance protocols and programs. Examines restorative justice and victim assistance initiatives that provide an alternative framework for dealing with crime that places victim needs in a primary position, while addressing legal concerns and interagency differences.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CRIM 57004 LEGAL PERSPECTIVES AND RIGHTS IN VICTIMIZATION 3 Credit Hours**

(Slashed with CRIM 47004) An analysis of the legal rights of victims of crime at state and federal levels as well as a review of how these laws relate to the treatment of victims within the criminal and juvenile justice systems, with particular focus on the courts and correctional institutions. Relevant legislative and Constitutional changes and challenges are also addressed.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CRIM 57095 SPECIAL TOPICS IN CRIMINOLOGY AND JUSTICE STUDIES 1-3 Credit Hours**

(Repeatable for credit) Intensive analysis of issues significant and current in the field which are not covered in regular courses.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 1-3 lecture

**Grade Mode:** Standard Letter

**CRIM 66199 THESIS I 2-6 Credit Hours**

(Repeatable for credit) Thesis students must register for a total of 6 hours, 2 to 6 hours in a single semester distributed over several semesters if desired.

**Prerequisite:** Graduate standing.

**Schedule Type:** Masters Thesis

**Contact Hours:** 2-6 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**CRIM 66299 THESIS II 2 Credit Hours**

Thesis students must continue to register for each semester until all degree requirements are met.

**Prerequisite:** CRIM 66199; and graduate standing.

**Schedule Type:** Masters Thesis

**Contact Hours:** 2 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**CRIM 66761 LAW, JUSTICE AND SOCIETY 3 Credit Hours**

Review of the origins, structure and functioning of law in relation to social context and process. Critical assessment of the use of law and legal institutions to address societal problems. Examination of the role that social inequality plays in crime and justice, nationally and internationally.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CRIM 66763 THEORIES OF CRIME AND DELINQUENCY 3 Credit Hours**

Study of the nature and causes of criminal and delinquent behavior, with an emphasis on major contemporary criminological theories. Includes critical analysis of relevant research and policy implications.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CRIM 66766 INSTITUTIONAL CORRECTIONS 3 Credit Hours**

Explores the historical development and theoretical foundations of the correctional institution, including jails and prisons, the structure of institutions and operational challenges. Incorporates overview of contemporary issues and the correctional institution as a social system.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CRIM 66767 JUSTICE ADMINISTRATION 3 Credit Hours**

Introduces students to theories of organization and administration and their application to the administration of justice institutions. The course is divided into two sections: (1) theories of administration and organization and (2) application of theories to management of police functions. Includes use of theories to diagnose and reform justice institutions.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CRIM 66768 RESEARCH METHODS IN CRIMINOLOGY AND CRIMINAL JUSTICE 3 Credit Hours**

Examines the methodology of research designs and techniques used in criminology and criminal justice. Provides students with an overview of the logic of research in order to critically evaluate research in the field. Focuses on the specific skills needed to conduct basic and evaluation research.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CRIM 66770 JUSTICE INSTITUTIONS 3 Credit Hours**

Introduces students to the analysis of U.S. criminal justice institutions. Examines methods of institutional analysis, theories of administration, and the application of these theories to the understanding of police, courts and corrections.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CRIM 66772 VICTIMOLOGY 3 Credit Hours**

Exploration of victimology, the scientific study of the physical, emotional, and financial harm people suffer because of criminal activities. Examination of the impact of crime on victims, measuring crime through victimization, patterns of victim-offender relationships, and the role of the victim within the criminal and juvenile justice systems.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CRIM 66773 CONTEMPORARY POLICING 3 Credit Hours**

The fundamental question of this course is how to create the most effective police organization. This course examines the various theories and research on police service. Examines the nature of coercion in human interaction and the legitimate use of force by police. Study of the various philosophies and research on the Standard Model of policing, Community-Oriented Policing, and Problem-Oriented Policing. Reviews theories of police administration and the research corroborating or refuting the validity of those theories.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CRIM 66795 SPECIAL TOPICS 1-3 Credit Hours**

(Repeatable for credit) Offered irregularly, this course provides opportunity to study special issues developments and programs in justice studies. Topics vary.

**Prerequisite:** Graduate standing and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 1-3 lecture

**Grade Mode:** Standard Letter

**CRIM 66796 INDIVIDUAL INVESTIGATION 1-3 Credit Hours**

(Repeatable for credit) Intensive study of a subject which the student cannot normally pursue in a regularly scheduled course. Individual investigation topic must be approved by instructor and graduate coordinator.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Individual Investigation

**Contact Hours:** 1-3 other

**Grade Mode:** Standard Letter

**CRIM 66875 PROSEMINAR CAPSTONE: ISSUES IN CONTEMPORARY JUSTICE 3 Credit Hours**

Capstone experience required of all MA students. An analysis of current issues in the legislative, policing, judicial, and correctional components of the justice system. Students synthesize knowledge through the completion of an approved, written project that is analytical and research-based.

**Prerequisite:** CRIM 56705 or CRIM 66766; and CRIM 56800 and CRIM 66761 and CRIM 66763 and CRIM 66768 and CRIM 66770 and CRIM 66772; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

## Sociology (SOC)

**SOC 12050 INTRODUCTION TO SOCIOLOGY (DIVD) (KSS) 3 Credit Hours**

Scientific approach to understanding social interaction, institutions and organization.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Diversity Domestic, Kent Core Social Sciences, TAG Social and Behavioral Sciences, Transfer Module Social Sciences

**SOC 22100 SOCIOLOGICAL ANALYSIS 3 Credit Hours**

Fundamental study of sociological analysis designed to provide awareness of theoretical and methodological concepts necessary in developing sociological perspective.

**Prerequisite:** SOC 12050.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SOC 22570 UNDERSTANDING DIFFERENCES AND INEQUALITY 3 Credit Hours**

An introduction to the cultural and structural factors creating and sustaining educational, economic and political inequality by race, ethnicity, gender, class and sexual orientation with an emphasis on issues of poverty and immigration.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** TAG Social and Behavioral Sciences

**SOC 22778 SOCIAL PROBLEMS (DIVG) (KSS) 3 Credit Hours**

Contemporary American and global social problems and issues are analyzed from sociological perspectives. Several cases are used to illustrate the emergence, development and decline of problems in social context.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Diversity Global, Kent Core Social Sciences, TAG Social and Behavioral Sciences, Transfer Module Social Sciences

**SOC 24011 INTERPERSONAL RELATIONSHIPS AND FAMILIES 3 Credit Hours**

(Equivalent to HDFS 24011) Exploration of the sociological nature of families across the lifespan, focusing on structure, diversity and life course processes such as dating, mate selection, cohabitation, marriage, parenthood, divorce, remarriage, singlehood, widowhood, parent-child interactions, sexual orientation, inequality and difference.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** TAG Social and Behavioral Sciences

**SOC 31092 PRACTICUM IN SOCIOLOGY (ELR) 1-3 Credit Hours**

(Repeatable for credit) Individual research experience in Sociology.

**Prerequisite:** SOC 32210; and junior standing.

**Schedule Type:** Practical Experience

**Contact Hours:** 1-3 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**Attributes:** Experiential Learning Requirement

**SOC 32005 CAREER PATHWAYS IN SOCIOLOGY AND CRIMINOLOGY AND JUSTICE STUDIES 3 Credit Hours**

This course equips students with an understanding of the career pathways available after completing a major or minor in Sociology or Criminology and Justice Studies. Provides students with a broad overview of career paths in SOC and CRJU while also helping students identify opportunities for internships and research while at KSU.

**Prerequisite:** SOC 12050 or CRIM 12000; and major or minor in sociology or criminal justice; and sophomore standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SOC 32096 INDIVIDUAL INVESTIGATION IN SOCIOLOGY 1-3 Credit Hours**

(Repeatable for credit) Readings and/or research supervised by member of sociology faculty.

**Prerequisite:** SOC 12050; and junior standing; and special approval of instructor.

**Schedule Type:** Individual Investigation

**Contact Hours:** 1-3 other

**Grade Mode:** Standard Letter

**SOC 32210 RESEARCHING SOCIETY (ELR) (WIC) 3 Credit Hours**

Survey of methods and techniques of research; research design and data gathering instruments; qualitative and quantitative analysis.

**Prerequisite:** SOC 12050; and junior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Experiential Learning Requirement, Writing Intensive Course

**SOC 32220 DATA ANALYSIS 3 Credit Hours**

The use of quantitative methods in the analysis of data from social research. Emphasis on descriptive statistics.

**Prerequisite:** SOC 12050.

**Corequisite:** SOC 32221.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SOC 32221 DATA ANALYSIS LABORATORY 1 Credit Hour**

Analysis of sociological data utilizing statistical and electronic data processing tools.

**Corequisite:** SOC 32220.

**Schedule Type:** Laboratory

**Contact Hours:** 3 lab

**Grade Mode:** Standard Letter

**SOC 32400 INDIVIDUAL AND SOCIETY 3 Credit Hours**

Foundations of social psychology; process of socialization; development of social and personal identities; small group and collective behavior; theories of deviance.

**Prerequisite:** SOC 12050.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SOC 32510 SOCIOLOGY OF WORK 3 Credit Hours**

Consideration of world of work across time and cultures with special emphasis on American society. Impact of work on individuals and other social institutions.

**Prerequisite:** SOC 12050.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SOC 32560 SOCIOLOGY OF FAMILIES (DIVD) 3 Credit Hours**

Social history of the American family. Examination of how race, ethnicity, sexual orientation, class, gender and age contribute to variation in the experience and structure of family life in the U.S.

**Prerequisite:** SOC 12050.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Diversity Domestic

**SOC 32565 SOCIOLOGY OF SEXUALITIES (DIVD) 3 Credit Hours**

Examination of the social production, meaning, and consequences of identities, practices, and inequalities related to sexualities, gender identity and gender expression.

**Prerequisite:** SOC 12050.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Diversity Domestic

**SOC 32569 MINORITIES IN THE UNITED STATES (DIVD) 3 Credit Hours**

Considers the nature and significance of minority groups and majority minority relations in the United States. Reviews experiences of racial and ethnic minorities, religious minorities, women, sexual minorities, the elderly and differently abled Americans.

**Prerequisite:** SOC 12050.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Diversity Domestic

**SOC 32570 INEQUALITY IN SOCIETIES (DIVD) 3 Credit Hours**

Sociological analysis of stratification and inequality in societies, and the social structures that produce and maintain them. Particular emphasis on the intersections of race, class and gender in American society.

**Prerequisite:** SOC 12050.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Diversity Domestic

**SOC 32673 URBAN SOCIOLOGY 3 Credit Hours**

Examination of the history and development of urban areas, urban sociological theories and selected topics such as poverty, immigration, race relations and urban planning.

**Prerequisite:** SOC 12050.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SOC 32762 DEVIANT BEHAVIOR 3 Credit Hours**

Overview of classical and contemporary theories and perspectives on the nature, causes and societal management of deviant behavior. Application of theories and perspectives to modern and historical social problems, methods of punishment and policy trends in social control.

**Prerequisite:** SOC 12050.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SOC 42010 DEATH AND DYING 3 Credit Hours**

(Slashed with SOC 52010) Theoretical perspectives and research in human death and dying. Emphasis on applied concerns in medical and helping professions. Topics include social death, death as taboo, medicalization and rationalization of death and dying and disenfranchised grief.

**Prerequisite:** SOC 12050; and junior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SOC 42092 INTERNSHIP IN SOCIOLOGY (ELR) 1-9 Credit Hours**

(Repeatable for credit) Application of sociological knowledge in work or organizational setting. Assist professionals at such sites as social services, hospitals, industry and government. Prerequisite: Minimum 2.0 overall GPA; and sociology major; and junior standing; and special approval

**Prerequisite:** Minimum 2.0 overall GPA; and sociology major; and junior standing; and special approval.

**Schedule Type:** Practical Experience

**Contact Hours:** 3-27 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**Attributes:** Experiential Learning Requirement

**SOC 42093 VARIABLE TITLE WORKSHOP IN SOCIOLOGY 1-6 Credit Hours**

(Repeatable for credit) Concentrates on professional or disciplinary concerns. Specific content to vary according to needs of client groups.

**Prerequisite:** Special approval.

**Schedule Type:** Workshop

**Contact Hours:** 1-6 other

**Grade Mode:** Satisfactory/Unsatisfactory

**SOC 42095 SPECIAL TOPICS IN SOCIOLOGY 3 Credit Hours**

(Repeatable for credit) Offered irregularly when unusual resources and/or opportunities permit. Topic announced when scheduled.

**Prerequisite:** SOC 12050; and junior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SOC 42126 SOCIOLOGICAL THEORIES 3 Credit Hours**

(Slashed with SOC 52126) An examination of classical, modern and postmodern approaches to social theory.

**Prerequisite:** SOC 12050; and junior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter



**SOC 42224 INTERPRETING SOCIAL DATA 3 Credit Hours**

Emphasis on organizing, analyzing and interpreting actual sociological research data making use of basic descriptive and inferential statistics and computer programs.

**Prerequisite:** SOC 32210 or SOC 32220; and special approval.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**SOC 42315 SOCIOLOGY OF GENDER (DIVD) 3 Credit Hours**

(Slashed with SOC 52315) An examination of the institutions, institutional linkages and social processes that contribute to the construction and maintenance of gender and gender inequality.

**Prerequisite:** SOC 12050; and junior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Diversity Domestic

**SOC 42359 SOCIAL MOVEMENTS 3 Credit Hours**

(Slashed with SOC 52359) Investigation of various movements for social change. Examines the origins, developmental characteristics and the purposes of classic and contemporary movements.

**Prerequisite:** SOC 12050; and junior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SOC 42400 SELF AND IDENTITY 3 Credit Hours**

Examines theories and research on the origin and behavioral consequences of identities, self-concept and self-esteem; also examines the relationships between identities and emotions and between self-concept and mental health.

**Prerequisite:** SOC 12050; and junior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SOC 42421 CHILDHOOD IN SOCIETY 3 Credit Hours**

(Slashed with SOC 52421) How socio-historical circumstances shape the perception and experience of childhood as a distinct life stage. The process of childhood socialization in Western societies particularly the United States. An exploration of the distinct role of socializing agents—parents and siblings, school, peers and media.

**Prerequisite:** SOC 12050; and junior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SOC 42478 ADOLESCENCE IN SOCIETY 3 Credit Hours**

(Slashed with SOC 52478) Consideration of the social, cultural and historical forces that shape the experience of this period of the life cycle. Includes examination of gender, class and race differences in adolescence the significance of youth movements, with an emphasis on music as a dominant expression of youth culture.

**Prerequisite:** SOC 12050; and junior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SOC 42558 WEALTH, POVERTY AND POWER 3 Credit Hours**

(Slashed with SOC 52558) Sociological examination of economic stratification; focuses on the translation of class into power via politics, education and collective struggle.

**Prerequisite:** SOC 12050; and junior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SOC 42559 CULTURE AND SOCIETY 3 Credit Hours**

Overview of the sociological analysis of culture, popular culture and the media. Includes examination of key theoretical perspectives, the production and consumption of culture, culture and inequality, and other current issues in the sociological study of culture.

**Prerequisite:** SOC 12050; and sophomore standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SOC 42560 SOCIOLOGY OF FOOD 3 Credit Hours**

(Slashed with SOC 52560) Food is essential, but like every other aspect of our lives, the meaning of food and the experience of its preparation and consumption are socially determined. Course explores the social dimensions of food consumption and production. Students consider the following questions and answer them by developing an understanding of sociological concepts and theories: What do our meals reveal about us – about our history, culture, our gender and race and ethnicity, socio-economic status, religious beliefs and our family life? How does food consumption differ in different societies? How do the media and corporations influence our food choices? What does food mean symbolize and in what ways are these meanings manipulated and why? How is food production carried out in different contexts and what can we learn about the social organization of work from studying food production? How does what we eat contribute to local and global environmental problems?

**Prerequisite:** SOC 12050.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SOC 42561 SOCIOLOGY OF RELIGION 3 Credit Hours**

(Slashed with SOC 52561) Social context of religious ideologies and structures with special reference to religion in America.

**Prerequisite:** SOC 12050; and junior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SOC 42562 SOCIOLOGY OF MENTAL ILLNESS 3 Credit Hours**

A sociology of mental health and illness; focuses on how social factors influence and are influenced by mental health status; topics include definition and measurement, social distribution, social control of mental illness, societal reaction and media coverage.

**Prerequisite:** SOC 12050; and junior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SOC 42563 SOCIOLOGY OF HEALTH AND HEALTH CARE 3 Credit Hours**

(Slashed with SOC 52563) Sociological analysis of health and illness behavior and utilization of health care professions, as well as the organizational, community and societal systems that deal with health and illness.

**Prerequisite:** SOC 12050; and junior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SOC 42564 BUREAUCRATIC ORGANIZATIONS 3 Credit Hours**

(Slashed with SOC 52564) Analysis of structure and functioning of complex organizations in their cultural context.

**Prerequisite:** SOC 12050; and junior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SOC 42568 RACE AND ETHNIC STUDIES (DIVD) 3 Credit Hours**

(Slashed with SOC 52568) Sociological principles underlying racial and ethnic relations in the United States; emphasis on social factors of prejudice, discrimination and assimilation affecting all groups.

**Prerequisite:** SOC 12050; and junior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Diversity Domestic

**SOC 42575 FAMILIES IN A GLOBAL PERSPECTIVE (DIVG) 3 Credit Hours**

Cultural variability with respect to courtship, family relationships, child rearing and other family patterns in societies across different continents, including Africa, Asia and South America.

**Prerequisite:** SOC 12050; and junior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Diversity Global

**SOC 42577 SOCIOLOGY OF FAMILY VIOLENCE 3 Credit Hours**

(Slashed with SOC 52577) Sociological analysis of theories, research and social policy concerning family violence, child abuse and neglect, spouse abuse, elderly abuse, marital rape, sexual abuse of children.

**Prerequisite:** Sociology 12050; and junior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SOC 42879 AGING IN SOCIETY (DIVD) 3 Credit Hours**

(Slashed with SOC 52879) Analysis of demographic, sociological and socio-psychological dimensions of aging.

**Prerequisite:** SOC 12050; and junior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Diversity Domestic

**SOC 43200 SOCIAL STRUCTURE AND INDIVIDUAL LIVES 3 Credit Hours**

Examines conceptualizations for and evidence concerning the effects of social structure on various dimensions of individual lives.

**Prerequisite:** SOC 12050; and junior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SOC 44010 SOCIOLOGICAL PERSPECTIVES IN MEDICINE 3 Credit Hours**

(Slashed with SOC 54010) Sociological perspectives of medicine focusing on community health and public health prevention efforts, rather than traditional medical curricula. Students employ sociological theories and methods to develop community interventions directed at preventing contemporary health problems.

**Prerequisite:** SOC 12050.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter-IP

**SOC 52010 DEATH AND DYING 3 Credit Hours**

(Slashed with SOC 42010) Theoretical perspectives and research in human death and dying. Emphasis on applied concerns in medical and helping professions. Topics include social death, death as taboo, medicalization and rationalization of death and dying, and disenfranchised grief.

**Prerequisite:** Sociology major; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SOC 52126 SOCIOLOGICAL THEORIES 3 Credit Hours**

(Slashed with SOC 42126) An examination of classical, modern and post-modern approaches to social theory.

**Prerequisite:** Sociology major; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SOC 52315 SOCIOLOGY OF GENDER 3 Credit Hours**

(Slashed with SOC 42315) An examination of the institutions, institutional linkages and social processes that contribute to the construction and maintenance of gender and gender inequality.

**Prerequisite:** Sociology major; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SOC 52359 SOCIAL MOVEMENTS 3 Credit Hours**

(Slashed with SOC 42359) Investigation of various movements for social change. Examines the origins, developmental characteristics and the purposes of classic and contemporary movements.

**Prerequisite:** Sociology major; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SOC 52421 CHILDHOOD IN SOCIETY 3 Credit Hours**

(Slashed with SOC 42421) How socio-historical circumstances shape the perception and experience of childhood as a distinct life stage. The process of childhood socialization in Western societies particularly the United States. An exploration of the distinct role of socializing agents—parents and siblings, school, peers and media.

**Prerequisite:** Sociology major; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SOC 52478 ADOLESCENCE IN SOCIETY 3 Credit Hours**

(Slashed with SOC 42478) Consideration of the social, cultural and historical forces that shape the experience of this period of the life cycle. Includes examination of gender, class and race differences in adolescence the significance of youth movements, with an emphasis on music as a dominant expression of youth culture.

**Prerequisite:** Sociology major; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SOC 52558 WEALTH, POVERTY AND POWER 3 Credit Hours**

(Slashed with SOC 42558) Sociological examination of economic stratification in the United States; focuses on the translation of class into power via politics, education and collective struggle.

**Prerequisite:** Sociology major; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SOC 52560 SOCIOLOGY OF FOOD 3 Credit Hours**

(Slashed with SOC 42560) Food is essential, but like every other aspect of our lives, the meaning of food and the experience of its preparation and consumption are socially determined. Course explores the social dimensions of food consumption and production. Students consider the following questions and answer them by developing an understanding of sociological concepts and theories: What do our meals reveal about us – about our history, culture, our gender and race and ethnicity, socio-economic status, religious beliefs and our family life? How does food consumption differ in different societies? How do the media and corporations influence our food choices? What does food mean symbolize and in what ways are these meanings manipulated and why? How is food production carried out in different contexts and what can we learn about the social organization of work from studying food production? How does what we eat contribute to local and global environmental problems?

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SOC 52561 SOCIOLOGY OF RELIGION 3 Credit Hours**

(Slashed with SOC 42561) Social context of religions and their ideologies and structures with special reference to religion in America.

**Prerequisite:** Sociology major; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SOC 52563 SOCIOLOGY OF HEALTH AND HEALTH CARE 3 Credit Hours**

(Slashed with SOC 42563) Sociological analysis of health and illness behavior and utilization of health care professions, as well as the organizational, community and societal systems that deal with health and illness.

**Prerequisite:** Sociology major; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SOC 52564 BUREAUCRATIC ORGANIZATIONS 3 Credit Hours**

(Slashed with SOC 42564) Analysis of structure and functioning of complex organizations in their cultural context.

**Prerequisite:** Sociology major; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SOC 52568 RACE AND ETHNIC STUDIES 3 Credit Hours**

(Slashed with SOC 42568) Sociological principles underlying racial and ethnic relations in the United States; emphasis on social factors of prejudice, discrimination and assimilation affecting all groups.

**Prerequisite:** Sociology major; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SOC 52577 SOCIOLOGY OF FAMILY VIOLENCE 3 Credit Hours**

(Slashed with SOC 42577) Sociological analysis of theories, research and social policy concerning family violence, child abuse and neglect, spouse abuse, elderly abuse, marital rape, sexual abuse of children.

**Prerequisite:** Sociology major; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SOC 52879 AGING IN SOCIETY 3 Credit Hours**

(Slashed with SOC 42879) Analysis of demographic, sociological and sociopsychological dimensions of aging.

**Prerequisite:** Sociology major; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SOC 54010 SOCIOLOGICAL PERSPECTIVES IN MEDICINE 3 Credit Hours**

(Slashed with SOC 44010) Sociological perspectives of medicine focusing on community health and public health prevention efforts, rather than traditional medical curricula. Students employ sociological theories and methods to develop community interventions directed at preventing contemporary health problems.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter-IP

**SOC 61003 CRIMINOLOGICAL THEORY 3 Credit Hours**

(Slashed with SOC 71003) Examines the major theories in criminology that have been used to explain criminal behavior. This course includes analysis of empirical tests, applications of the theories, and social policy implications.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SOC 61004 SOCIOLOGY OF CORRECTIONS 3 Credit Hours**

(Slashed with SOC 71004) Analyzes the correctional institution as a social system: formal structure and informal dynamics. It covers problems and programs found in community corrections as well as the institutional setting. It examines approaches to correctional supervision and treatment through probation, parole, and community residential treatment.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SOC 61005 JUVENILE DELINQUENCY 3 Credit Hours**

(Slashed with SOC 71005) Provides an analysis of the issues and current research related to juvenile delinquency and the juvenile justice process.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SOC 62002 PROFESSIONAL AND ETHICAL ISSUES IN SOCIOLOGY 3 Credit Hours**

(Slashed with SOC 72002) Introduction to professional and ethical issues in the field of sociology including the logic of inquiry, developing effective approaches to independent learning and research, the human subjects review process and plagiarism. Akron 3850:628.

**Prerequisite:** Sociology major; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SOC 62093 VARIABLE TITLE WORKSHOP IN SOCIOLOGY 1-6 Credit Hours**

(Repeatable for credit)(Slashed with SOC 72093) Concentrates on professional or disciplinary concerns. Specific content to vary according to needs of client groups.

**Prerequisite:** Graduate standing.

**Schedule Type:** Workshop

**Contact Hours:** 1-6 other

**Grade Mode:** Satisfactory/Unsatisfactory

**SOC 62100 EARLY SOCIOLOGICAL THEORY 3 Credit Hours**

(Slashed with SOC 72100) An examination of the contributions by pre-1930 social thinkers to contemporary sociological theory. Akron 3850:722.

**Prerequisite:** SOC 52126; and sociology major; and graduate standing.

**Schedule Type:** Seminar

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**SOC 62105 CONTEMPORARY SOCIOLOGICAL THOUGHT 3 Credit Hours**

(Slashed with SOC 62105) Covers major contemporary theories and theorists. Emphasis on functionalism, conflict, exchange, interactionism and systems theory. Neofunctionalism, neo-Marxism, structuration theory and other recent trends are treated. Akron 3850:723.

**Prerequisite:** SOC 62100; and sociology major; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SOC 62199 THESIS I 2-6 Credit Hours**

Thesis students must register for a total of 6 hours, 2 to 6 hours in a single semester distributed over several semesters if desired.

**Prerequisite:** Graduate standing in sociology; and special approval.

**Schedule Type:** Masters Thesis

**Contact Hours:** 2-6 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**SOC 62211 QUANTITATIVE METHODS IN SOCIOLOGY 4 Credit Hours**

Introduction to the use of quantitative research methods for analyzing sociological issues. Includes instruction on each step in the process of empirically verifying a theoretical question, from conceptualization to analysis. Akron 3850:603.

**Prerequisite:** Graduate standing in sociology.

**Schedule Type:** Lecture

**Contact Hours:** 4 lecture

**Grade Mode:** Standard Letter

**SOC 62217 MULTIVARIATE TECHNIQUES IN SOCIOLOGY 4 Credit Hours**

(Slashed with SOC 72217) Advanced multivariate techniques and methodological problems in the analysis of sociological data. Topics include non-experimental causal models and path analysis. Akron 3850:706.

**Prerequisite:** SOC 32220; and sociology major; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 4 lecture

**Grade Mode:** Standard Letter

**SOC 62218 ADVANCED DATA ANALYSIS 4 Credit Hours**

(Slashed with SOC 72218) Critical examination of data analytic techniques having particular relevance to research problems in sociology, with particular emphasis on multi-variate inferential statistics. Akron 3850:709.

**Prerequisite:** SOC 62217; and sociology major; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 4 lecture

**Grade Mode:** Standard Letter

**SOC 62219 QUALITATIVE METHODS IN SOCIOLOGY 4 Credit Hours**

(Slashed with SOC 72219) Study of qualitative methods including interviewing, observation, use of personal documents, archival data and special problems of recording and analyzing qualitative data. Akron 3850:714.

**Prerequisite:** Sociology major; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 4 lecture

**Grade Mode:** Standard Letter

**SOC 62220 SURVEY RESEARCH METHODS 3 Credit Hours**

(Slashed with SOC 72220) An in-depth study of the design and administration of social surveys. Akron 3850:711.

**Prerequisite:** Sociology major; and graduate standing.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**SOC 62221 ADVANCED QUALITATIVE METHODS IN SOCIOLOGY 3 Credit Hours**

(Slashed with SOC 72221) Provides students with the opportunity to conceive, design and carry out their own qualitative research projects. Students also survey readings that are exemplars of high quality and rigorous qualitative research. Topics such as writing, analysis and ethics are covered as students develop and move forward on their own original research. Students must be actively engaged in a qualitative research project to enroll in the course.

**Prerequisite:** SOC 62219; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SOC 62299 THESIS II 2 Credit Hours**

Thesis students must continue registration each semester until all degree requirements are met.

**Prerequisite:** SOC 62199; and graduate standing in sociology; and special approval.

**Schedule Type:** Masters Thesis

**Contact Hours:** 2 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**SOC 62323 SOCIOLOGY OF HEALTH AND ILLNESS 3 Credit Hours**

(Slashed with SOC 72323) Introduction to medical sociology. Topics include health care professions, patient-provider interaction, caregivers, the illness experience, race, ethnicity, gender, socio-economic status, and health and global health.

**Prerequisite:** Sociology major; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SOC 62326 SOCIOLOGY OF MENTAL HEALTH AND MENTAL ILLNESS 3 Credit Hours**

(Slashed with SOC 72326) Sociological examination of the social processes that affect mental health, frame cultural ideas of normality and illness, and define clinical pathology. Akron 3850: 728.

**Prerequisite:** Sociology major; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SOC 62328 STRATIFICATION AND HEALTH 3 Credit Hours**

(Slashed with SOC 72328) Race, social class and gender differences in physical and mental health status, help-seeking behavior and health care. Race, class and gender stratification of health care workers. Akron 3850:726.

**Prerequisite:** Sociology major; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SOC 62330 COMPARATIVE HEALTH CARE SYSTEMS 3 Credit Hours**

(Slashed with SOC 72330) Comparative analysis of health care systems across the globe. Covers historical development and political economy of health care systems, variation in delivery and access to care, and variation in health outcomes.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SOC 62332 SOCIAL CONTROL OF MENTAL ILLNESS 3 Credit Hours**

(Slashed with SOC 72332) Introduction to the sociological perspective regarding social control and mental illness. Topics include the history of mental illness and the asylum, the stratification of mental illness diagnosis and treatment by race, ethnicity, gender, and socio-economic status, and stigma and psychiatric labeling.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SOC 62430 SOCIAL PSYCHOLOGY 3 Credit Hours**

(Slashed with SOC 72430) Examination of social psychological theory and research, both classic and contemporary. Provides student with background and working knowledge of social psychological aspects of social phenomena. Akron 3850: 631.

**Prerequisite:** Sociology major; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SOC 62433 SOCIAL STRUCTURE AND PERSONALITY 3 Credit Hours**

(Slashed with SOC 72433) Examination of contemporary theory and research on linkages between personality and society. Emphasis is on the dynamics of those linkages and their effects on both individuals and social structures. Akron 3850:634.

**Prerequisite:** Sociology major; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SOC 62437 STRUCTURAL SOCIAL PSYCHOLOGY 3 Credit Hours**

(Slashed with SOC 72437) In-depth introduction to structural social psychology, a set of theoretical and methodological approaches and tools that focuses on the development and testing of multi-level, micro-macro accounts of human social interactions, often through the use of formal theorizing and mathematical modeling. Course provides an overview of the theoretical and research empirical methods that are most associated with structural social psychology; cover the main substantive topics in the area; and then conclude with a brief overview of current issues, debates and recent interdisciplinary advances.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SOC 62439 SELF AND IDENTITY 3 Credit Hours**

(Slashed with SOC 72439) Examines theories and research on the origins of and on behavioral and social consequences of identities, self-concept and self-esteem; also examines the relationships between identities and emotions and between self-concept and mental health and well-being.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter



**SOC 62542 SOCIOLOGY OF WORK 3 Credit Hours**

(Slashed with SOC 72542) Examination of work as behavioral phenomenon in human societies; contrasts with nonwork and leisure significance of occupations, professions and work types in organization of work. Akron 3850:649.

**Prerequisite:** Sociology major; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SOC 62546 SOCIAL INEQUALITY 3 Credit Hours**

(Slashed with SOC 62546) An overview of social inequalities, including definitions, causes, identities, structures and consequences. The focus is on social class with attention to intersecting dimensions of inequality. Akron 3850:646.

**Prerequisite:** Sociology major; and Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SOC 62566 SOCIOLOGY OF GENDER 3 Credit Hours**

(Slashed with SOC 72566) Examination of theories and research on gender origins, characteristics and changes. Emphasizes recent empirical research on gender role patterns and processes in various industrial societies. Akron 3850:639.

**Prerequisite:** Graduate standing; and sociology major.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SOC 62760 DEVIANCE 3 Credit Hours**

(Slashed with SOC 72760) Examination of nature, types and controls of deviance; analysis of conceptual levels, theoretical contributions, processes in social labeling and self-labeling, case studies, social consequences and problems. Akron 3850: 663.

**Prerequisite:** Sociology major; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SOC 62870 SOCIOLOGY OF RACE AND ETHNICITY 3 Credit Hours**

(Slashed with SOC 72870) An in-depth study of the theories, models, research approaches and substantive areas that constitute the sociology of race and ethnicity. Akron 3850:651.

**Prerequisite:** Sociology major; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SOC 62872 SOCIAL PSYCHOLOGY AND INEQUALITY 3 Credit Hours**

(Slashed with SOC 72872) Introduces students to sociological social psychological work that examines the reproduction of inequality. Specifically, the course focuses on "generic social processes" in how individuals, through interaction, are complicit or resistant in the reproduction of inequality through processes such as identity work, collective identity work, emotion work, othering and boundary maintenance. Mechanisms for change are also considered.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SOC 62877 SOCIOLOGY OF AGING AND THE LIFE COURSE 3 Credit Hours**

(Slashed with SOC 72877) Study of the sociology of aging and the life course, covering the major stages of young adulthood, mid-life, and later life. Topics include demography of aging, transition to adulthood, educational attainment, romantic relationships and cohabitation, marriage, parenting, work and retirement, theories of aging, aging and social policy, neighborhoods and aging, later life living arrangements, and death and dying.

**Prerequisite:** Sociology major; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SOC 62894 COLLEGE TEACHING OF SOCIOLOGY 3 Credit Hours**

(Repeatable for credit)(Slashed with SOC 72894) Preparation for college teaching. Students may apply a maximum 3 credit hours applicable toward the master's degree with departmental approval. Akron 3850:700.

**Prerequisite:** Graduate standing; and sociology major.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**SOC 62895 SPECIAL TOPICS 3 Credit Hours**

(Repeatable for credit)(Slashed with SOC 72895) Offered irregularly when unusual resources and/or opportunities permit. Topic will be announced when scheduled.

**Prerequisite:** Sociology major; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SOC 62896 INDIVIDUAL INVESTIGATION 1-3 Credit Hours**

(Repeatable for credit)(Slashed with SOC 72896) Intensive pursuit of a subject matter beyond normal course coverage with the possibility of associated research. Students may apply a maximum 6 credit hours combined in individual investigation (SOC 62896, SOC 72896) and research (SOC 62898, SOC 72898) toward the master's degree.

**Prerequisite:** Sociology major; and graduate standing; and special approval.

**Schedule Type:** Individual Investigation

**Contact Hours:** 1-3 other

**Grade Mode:** Satisfactory/Unsatisfactory

**SOC 62898 RESEARCH 1-3 Credit Hours**

(Repeatable for credit)(Slashed with SOC 72898) Pursuit of research interests that can include the student's project and/or a faculty member's project. Student may apply a maximum of 6 credits combined of research (SOC 62898, SOC 72898) and individual investigation (SOC 62896, SOC 72896) toward the master's degree.

**Prerequisite:** Sociology major; and graduate standing; and special approval.

**Schedule Type:** Research

**Contact Hours:** 1-3 other

**Grade Mode:** Satisfactory/Unsatisfactory

**SOC 71003 CRIMINOLOGICAL THEORY 3 Credit Hours**

(Slashed with SOC 61003) Examines the major theories in criminology that have been used to explain criminal behavior. This course includes analysis of empirical tests, applications of the theories, and social policy implications.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SOC 71004 SOCIOLOGY OF CORRECTIONS 3 Credit Hours**

(Slashed with SOC 61004) Analyzes the correctional institution as a social system: formal structure and informal dynamics. It covers problems and programs found in community corrections as well as the institutional setting. It examines approaches to correctional supervision and treatment through probation, parole, and community residential treatment.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SOC 71005 JUVENILE DELINQUENCY 3 Credit Hours**

(Slashed with SOC 61005) Provides an analysis of the issues and current research related to juvenile delinquency and the juvenile justice process.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SOC 72002 PROFESSIONAL AND ETHICAL ISSUES IN SOCIOLOGY 3 Credit Hours**

(Slashed with SOC 62002) Introduction to professional and ethical issues in the field of sociology including the logic of inquiry, developing effective approaches to independent learning and research, the human subjects review process and plagiarism. Akron 3850:628.

**Prerequisite:** Sociology major; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SOC 72093 VARIABLE TITLE WORKSHOP IN SOCIOLOGY 1-6 Credit Hours**

(Repeatable for credit)(Slashed with SOC 62093) Concentrates on professional or disciplinary concerns. Specific content to vary according to needs of client groups.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Workshop

**Contact Hours:** 1-6 other

**Grade Mode:** Satisfactory/Unsatisfactory

**SOC 72100 EARLY SOCIOLOGICAL THEORY 3 Credit Hours**

(Slashed with SOC 62100) An examination of the contributions by pre-1930 social thinkers to contemporary sociological theory. Akron 3850:722.

**Prerequisite:** SOC 52126; and sociology major; and doctoral standing.

**Schedule Type:** Seminar

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**SOC 72105 CONTEMPORARY SOCIOLOGICAL THOUGHT 3 Credit Hours**

(Slashed with SOC 62105) Covers major contemporary theories and theorists. Emphasis on functionalism, conflict, exchange, interactionism and systems theory. Neofunctionalism, neo-Marxism, structuration theory and other recent trends are treated. Akron 3850:723.

**Prerequisite:** SOC 72100; and sociology major; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SOC 72211 QUANTITATIVE METHODS IN SOCIOLOGY 4 Credit Hours**

Introduction to the use of quantitative research methods for analyzing sociological issues. Includes instruction on each step in the process of empirically verifying a theoretical question, from conceptualization to analysis. Akron 3850:603.

**Prerequisite:** Doctoral standing in sociology.

**Schedule Type:** Lecture

**Contact Hours:** 4 lecture

**Grade Mode:** Standard Letter

**SOC 72217 MULTIVARIATE TECHNIQUES IN SOCIOLOGY 4 Credit Hours**

(Slashed with SOC 62217) Advanced multivariate techniques and methodological problems in the analysis of sociological data. Topics include non-experimental causal models and path analysis. Akron 3850:706.

**Prerequisite:** SOC 32220; and sociology major; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 4 lecture

**Grade Mode:** Standard Letter

**SOC 72218 ADVANCED DATA ANALYSIS 4 Credit Hours**

(Slashed with SOC 62218) Crucial examination of data analytic techniques having particular relevance to research problems in sociology, with particular emphasis on multi-variate inferential statistics. Akron 3850:709.

**Prerequisite:** SOC 72217; and sociology major; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 4 lecture

**Grade Mode:** Standard Letter

**SOC 72219 QUALITATIVE METHODS IN SOCIOLOGY 4 Credit Hours**

(Slashed with SOC 62219) Study of qualitative methods including interviewing, observation, use of personal documents, archival data, and special problems of recording and analyzing qualitative data. Akron 3850:714.

**Prerequisite:** Sociology major; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 4 lecture

**Grade Mode:** Standard Letter

**SOC 72220 SURVEY RESEARCH METHODS 3 Credit Hours**

(Slashed with SOC 62220) An in-depth study of the design and administration of social surveys. Akron 3850:711.

**Prerequisite:** Sociology major; and doctoral standing.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**SOC 72221 ADVANCED QUALITATIVE METHODS IN SOCIOLOGY 3 Credit Hours**

(Slashed with SOC 62221) Provides students with the opportunity to conceive, design and carry out their own qualitative research projects. Students also survey readings that are exemplars of high quality and rigorous qualitative research. Topics such as writing, analysis and ethics are covered as students develop and move forward on their own original research. Students must be actively engaged in a qualitative research project to enroll in the course.

**Prerequisite:** SOC 72219; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SOC 72323 SOCIOLOGY OF HEALTH AND ILLNESS 3 Credit Hours**  
 (Slashed with SOC 62323) Introduction to medical sociology. Topics include health care professions, patient-provider interaction, caregivers, the illness experience, race, ethnicity, gender, socio-economic status and health and global health.  
**Prerequisite:** Sociology major; and doctoral standing.  
**Schedule Type:** Lecture  
**Contact Hours:** 3 lecture  
**Grade Mode:** Standard Letter

**SOC 72326 SOCIOLOGY OF MENTAL HEALTH AND MENTAL ILLNESS 3 Credit Hours**  
 (Slashed with SOC 62326) Sociological examination of the social processes that affect mental health, frame cultural ideas of normality and illness, and define clinical pathology. Akron 3850:728.  
**Prerequisite:** Sociology major; and doctoral standing.  
**Schedule Type:** Lecture  
**Contact Hours:** 3 lecture  
**Grade Mode:** Standard Letter

**SOC 72328 STRATIFICATION AND HEALTH 3 Credit Hours**  
 (Slashed with SOC 62328) Race, social, class and gender differences in physical and mental health status, help-seeking behavior and health care. Race, class and gender stratification of health care workers. Akron 3850:726.  
**Prerequisite:** Sociology major; and doctoral major.  
**Schedule Type:** Lecture  
**Contact Hours:** 3 lecture  
**Grade Mode:** Standard Letter

**SOC 72330 COMPARATIVE HEALTH CARE SYSTEMS 3 Credit Hours**  
 (Slashed with SOC 62330) Comparative analysis of health care systems across the globe. Covers historical development and political economy of health care systems, variation in delivery and access to care, and variation in health outcomes.  
**Prerequisite:** Doctoral standing.  
**Schedule Type:** Lecture  
**Contact Hours:** 3 lecture  
**Grade Mode:** Standard Letter

**SOC 72332 SOCIAL CONTROL OF MENTAL ILLNESS 3 Credit Hours**  
 (Slashed with SOC 62332) Introduction to the sociological perspective regarding social control and mental illness. Topics include the history of mental illness and the asylum, the stratification of mental illness diagnosis and treatment by race, ethnicity, gender, and socio-economic status, and stigma and psychiatric labeling.  
**Prerequisite:** Doctoral standing.  
**Schedule Type:** Lecture  
**Contact Hours:** 3 lecture  
**Grade Mode:** Standard Letter

**SOC 72430 SOCIAL PSYCHOLOGY 3 Credit Hours**  
 (Slashed with SOC 62430) Examination of social psychological theory and research, both classic and contemporary. Provides student with background and working knowledge of social psychological aspects of social phenomena. Akron 3850:631.  
**Prerequisite:** Sociology major; and doctoral standing.  
**Schedule Type:** Lecture  
**Contact Hours:** 3 lecture  
**Grade Mode:** Standard Letter

**SOC 72433 SOCIAL STRUCTURE AND PERSONALITY 3 Credit Hours**  
 (Slashed with SOC 62433) Examination of contemporary theory and research on linkages between personality and society. Emphasis is on the dynamics of those linkages and their effects on both individuals and social structures. Akron 3850:634.  
**Prerequisite:** Sociology major; and doctoral standing.  
**Schedule Type:** Lecture  
**Contact Hours:** 3 lecture  
**Grade Mode:** Standard Letter

**SOC 72437 STRUCTURAL SOCIAL PSYCHOLOGY 3 Credit Hours**  
 (Slashed with SOC 62437) In-depth introduction to structural social psychology, a set of theoretical and methodological approaches and tools that focuses on the development and testing of multi-level, micro-macro accounts of human social interactions, often through the use of formal theorizing and mathematical modeling. Course provides an overview of the theoretical and research empirical methods that are most associated with structural social psychology; cover the main substantive topics in the area; and then conclude with a brief overview of current issues, debates and recent interdisciplinary advances.  
**Prerequisite:** Doctoral standing.  
**Schedule Type:** Lecture  
**Contact Hours:** 3 lecture  
**Grade Mode:** Standard Letter

**SOC 72439 SELF AND IDENTITY 3 Credit Hours**  
 (Slashed with SOC 62439) Examines theories and research on the origins of and on behavioral and social consequences of identities, self-concept and self-esteem; also examines the relationships between identities and emotions and between self-concept and mental health and well-being.  
**Prerequisite:** Doctoral standing.  
**Schedule Type:** Lecture  
**Contact Hours:** 3 lecture  
**Grade Mode:** Standard Letter

**SOC 72542 SOCIOLOGY OF WORK 3 Credit Hours**  
 (Slashed with SOC 62542) Examination of work as behavioral phenomenon in human societies; contrasts with nonwork and leisure; significance of occupations, professions and work types in organization of work. Akron 3850:649.  
**Prerequisite:** Sociology major; and doctoral standing.  
**Schedule Type:** Lecture  
**Contact Hours:** 3 lecture  
**Grade Mode:** Standard Letter

**SOC 72546 SOCIAL INEQUALITY 3 Credit Hours**  
 (Slashed with SOC 62546) An overview of social inequalities, including definitions, causes, identities, structures and consequences. The focus is on social class with attention to intersecting dimensions of inequality. Akron 3850:646.  
**Prerequisite:** Sociology major; and doctoral standing.  
**Schedule Type:** Lecture  
**Contact Hours:** 3 lecture  
**Grade Mode:** Standard Letter

**SOC 72566 SOCIOLOGY OF GENDER 3 Credit Hours**  
 (Slashed with SOC 62566) Examination of theories and research on gender origins, characteristics and changes. Emphasizes recent empirical research on gender role patterns and processes in various industrial societies. Akron 3850:639.  
**Prerequisite:** Sociology major; and doctoral standing.  
**Schedule Type:** Lecture  
**Contact Hours:** 3 lecture  
**Grade Mode:** Standard Letter

**SOC 72760 DEVIANCE 3 Credit Hours**

(Slashed with SOC 62760) Examination of nature, types and controls of deviance; analysis of conceptual levels, theoretical contributions, processes in social labeling and self labeling, case studies, social consequences and problems. Akron 3850:663.

**Prerequisite:** Sociology major; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SOC 72870 SOCIOLOGY OF RACE AND ETHNICITY 3 Credit Hours**

(Slashed with SOC 62870) An in-depth study of the theories, models, research approaches and substantive areas that constitute the sociology of race and ethnicity. Akron 3850:651.

**Prerequisite:** Sociology major; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SOC 72872 SOCIAL PSYCHOLOGY AND INEQUALITY 3 Credit Hours**

(Slashed with SOC 62872) Introduces students to sociological social psychology work that examines the reproduction of inequality. Specifically, the course focuses on "generic social processes" in how individuals, through interaction, are complicit or resistant in the reproduction of inequality through processes such as identity work, collective identity work, emotion work, othering and boundary maintenance. Mechanisms for change are also considered.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SOC 72877 SOCIOLOGY OF AGING AND THE LIFE COURSE 3 Credit Hours**

(Slashed with SOC 62877) Study of the sociology of aging and the life course, covering the major stages of young adulthood, mid-life, and later life. Topics include demography of aging, transition to adulthood, educational attainment, romantic relationships and cohabitation, marriage, parenting, work and retirement, theories of aging, aging and social policy, neighborhoods and aging, later life living arrangements, and death and dying. Akron 3850:678.

**Prerequisite:** Sociology major; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SOC 72894 COLLEGE TEACHING OF SOCIOLOGY 3 Credit Hours**

(Repeatable for credit)(Slashed with SOC 62894) Preparation for college teaching. Course may not be applied toward the doctoral degree. Akron 3850:700.

**Prerequisite:** Sociology major; and graduate standing.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**SOC 72895 SPECIAL TOPICS 3 Credit Hours**

(Repeatable for credit)(Slashed with SOC 62895) Offered irregularly when unusual resources and/or opportunities permit. Topic will be announced when scheduled.

**Prerequisite:** Sociology major; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SOC 72896 INDIVIDUAL INVESTIGATION 1-3 Credit Hours**

(Repeatable for credit)(Slashed with SOC 62896) Intensive pursuit of a subject matter beyond normal course coverage with the possibility of associated research. Students may apply a maximum 6 credit hours combined in individual investigation (SOC 72896) and research (SOC 72898) toward the doctoral degree.

**Prerequisite:** Sociology major; and doctoral standing; and special approval.

**Schedule Type:** Individual Investigation

**Contact Hours:** 1-3 other

**Grade Mode:** Satisfactory/Unsatisfactory

**SOC 72898 RESEARCH 1-3 Credit Hours**

(Repeatable for credit)(Slashed with SOC 62898) Pursuit of research interests that can include the student's project and/or a faculty member's project. Student may apply a maximum of 6 credits combined of research (SOC 72898) and individual investigation (SOC 72896) toward the doctoral degree.

**Prerequisite:** Sociology major; and doctoral standing; and special approval.

**Schedule Type:** Research

**Contact Hours:** 1-3 other

**Grade Mode:** Satisfactory/Unsatisfactory

**SOC 82199 DISSERTATION I 15 Credit Hours**

(Repeatable for credit) Doctoral dissertation, for which registration in at least two semesters is required first of which will be semester in which dissertation is begun and continuing until 30 hours are completed. Akron 3850: 899.

**Prerequisite:** Doctoral standing; and special approval.

**Schedule Type:** Dissertation

**Contact Hours:** 15 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**SOC 82299 DISSERTATION II 15 Credit Hours**

(Repeatable for credit) Continuing registration required of doctoral students who have completed the initial 30 hours of dissertation and continuing until all degree requirements are met.

**Prerequisite:** Doctoral standing; and special approval.

**Schedule Type:** Dissertation

**Contact Hours:** 15 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

## Criminology and Criminal Justice - M.A.

### College of Arts and Sciences

Department of Sociology

215 Merrill Hall

Kent Campus

330-672-2562

[www.kent.edu/sociology](http://www.kent.edu/sociology)

## Description

The Master of Arts degree in Criminology and Criminal Justice is designed to challenge experienced and aspiring professionals who want to expand their scope of knowledge and move into career and leadership positions. The program prepares graduates as a next-generation leader in this complex, global and interconnected field. The flexible online program is structured to fit the lives of full-time working professionals.



The Criminology and Criminal Justice major comprises the following concentrations:

- The **Corrections** concentration is designed for those pursuing career advancement and expanded knowledge in the areas of probation, parole and institutional corrections or treatment. The program provides a strong foundation in correctional theory and practice pertinent to both institutional and community settings, including an awareness of contemporary challenges and emerging trends in the field.
- The **Global Security** concentration focuses on issues related to global security, U.S. national security policy and strategy, as well as transnational issues and the concerns of other countries or regions. It provides students with a strong foundation to confront the ever-changing, fast-paced and challenging international security environment. With an emphasis on traditional and emerging transnational security threats, students are prepared for analytical, operational and leadership careers in global security in the public and private sectors. The goal is to produce a new generation of analysts, policymakers and scholars knowledgeable about the wide range of international and national security problems and foreign policy issues of the 21st century.
- The **Policing** concentration examines the historical ideas of police service and the lessons that can be learned from those ideas. Students learn about the research that has challenged traditional ideas and the implications of that research for revision. The program provides students the tools to analyze the implications of contemporary research to guide new innovations in policies, management, strategies and tactics of police service delivery.
- The **Victimology** concentration provides specialized knowledge about the scientific study of crime victims, their treatment within the criminal and juvenile justice systems, the legal rights of victims and victim assistance and restorative justice programs. This concentration will prepare students to develop and lead initiatives that help prevent victimization, to engage in victimological research and evaluation and to respond to victims in culturally appropriate ways.

**Fully Offered At:**

- Online Only

**Admission Requirements**

- Bachelor's degree from an accredited college or university for unconditional admission
- Minimum 3.000 undergraduate GPA on a 4.000 point scale for unconditional admission
- Official transcript(s)
- Goal statement
- Three letters of recommendation (preferably academic)
- English language proficiency - all international students must provide proof of English language proficiency (unless they meet specific exceptions) by earning one of the following:
  - Minimum 587 TOEFL PBT score (paper-based version)
  - Minimum 94 TOEFL IBT score (Internet-based version)
  - Minimum 82 MELAB score
  - Minimum 7.0 IELTS score

- Minimum 65 PTE score
- Minimum 120 Duolingo English Test score

For more information about graduate admissions, please visit the Graduate Studies admission website. For more information on international admission, visit the Office of Global Education's admission website.

**Program Learning Outcomes**

Graduates of this program will be able to:

1. Demonstrate a practical understanding of criminological theory by using it to better understand crime and criminal behavior, pose and attempt to answer research questions and see its connection to crime policy.
2. Demonstrate mastery of the significant empirical findings in the major areas of criminology and criminal justice.
3. Demonstrate an appreciation for the use of the scientific method in the study of crime, a practical understanding of research methods used in the field and a practical understanding of statistics in social science research.
4. Develop basic skills in planning and conducting research projects, including evaluation research in particular.
5. Describe the role of race/ethnicity, gender, sexual orientation and social class as they relate to crime and victimization.
6. Effectively communicate criminological knowledge and write a clear and concise analysis of issues, policies and research in the field.

**Program Requirements**

**Major Requirements**

Code	Title	Credit Hours
<b>Major Requirements</b>		
CRIM 56705 or CRIM 66766	COMMUNITY CORRECTIONS <sup>1</sup> INSTITUTIONAL CORRECTIONS	3
CRIM 56800	INTELLIGENCE AND NATIONAL SECURITY	3
CRIM 66761	LAW, JUSTICE AND SOCIETY	3
CRIM 66763	THEORIES OF CRIME AND DELINQUENCY	3
CRIM 66768	RESEARCH METHODS IN CRIMINOLOGY AND CRIMINAL JUSTICE	3
CRIM 66770	JUSTICE INSTITUTIONS	3
CRIM 66772	VICTIMOLOGY	3
CRIM 66875	PROSEMINAR CAPSTONE: ISSUES IN CONTEMPORARY JUSTICE	3
<b>Concentrations</b>		
Choose from the following:		9
Corrections		
Global Security		
Policing		
Victimology		
Minimum Total Credit Hours:		33

<sup>1</sup> Students who declare the Corrections concentration must take both CRIM 56705 and CRIM 66766.



## Corrections Concentration Requirements

Code	Title	Credit Hours
<b>Concentration Requirements</b>		
CRIM 56708	TREATMENT METHODS	3
CRIM 56709	EMERGING TRENDS AND ISSUES IN CORRECTIONS	3
CRIM 66766	INSTITUTIONAL CORRECTIONS	3
Minimum Total Credit Hours:		9

## Global Security Concentration Requirements

Code	Title	Credit Hours
<b>Concentration Requirements</b>		
CRIM 56801	HOMELAND SECURITY	3
CRIM 56802	TERRORISM AND COUNTERTERRORISM	3
CRIM 56803	INFORMATION AND CYBER SECURITY	3
Minimum Total Credit Hours:		9

## Policing Concentration Requirements

Code	Title	Credit Hours
<b>Concentration Requirements</b>		
CRIM 56904	ISSUES IN POLICE WORK	3
CRIM 66767	JUSTICE ADMINISTRATION	3
CRIM 66773	CONTEMPORARY POLICING	3
Minimum Total Credit Hours:		9

## Victimology Concentration Requirements

Code	Title	Credit Hours
<b>Concentration Requirements</b>		
CRIM 57002	HUMAN SERVICE AGENCIES AND THE LAW	3
CRIM 57003	RESTORATIVE JUSTICE AND VICTIM ASSISTANCE	3
CRIM 57004	LEGAL PERSPECTIVES AND RIGHTS IN VICTIMIZATION	3
Minimum Total Credit Hours:		9

# Criminology and Justice Studies - B.A.

## College of Arts and Sciences

Department of Sociology  
215 Merrill Hall  
Kent Campus  
330-672-2562  
www.kent.edu/sociology

## Description

The Bachelor of Arts degree in Criminology and Justice Studies takes an interdisciplinary approach to the study of crime, law and justice. Faculty members view crime, deviance and society's response from the fields of sociology, political science, psychology and traditional criminal justice viewpoints. The curriculum provides a firm understanding of the basic institutions of the criminal justice system. Students are also exposed to

criminological theory and diversity courses, which help them understand the complex relationship between the individual, society and the criminal justice system. The program stresses effective writing and analytical skills. Students are afforded the opportunity to earn credit through internship placements.

Students select at least one concentration in consultation with a faculty advisor or the undergraduate coordinator. Consultations with faculty enable students to make informed choices about which combination of courses will maximize their preparation for future careers and graduate education.

Criminology and Justice Studies students may apply early to the M.A. degree in Criminology and Criminal Justice and double count 9 credit hours of graduate courses toward both degree programs. See the Combined Bachelor's/Master's Degree Program policy in the University Catalog for more information.

The Criminology and Justice Studies major comprises the following concentrations:

- The **Corrections** concentration is for students interested in pursuing careers in institutional corrections for adults or juveniles, or in such community corrections fields as probation and parole.
- The **Criminology and Deviance** concentration is for students interested in understanding the origins and nature of deviance and crime, their patterns and societal responses; this concentration is appropriate for students preparing for graduate study in sociology, criminology, criminal justice, public policy or social work.
- The **General–Criminology and Justice Studies** concentration is for students who either choose not to pursue specializations within the major or wish to pursue an individualized program of study (through general electives), which does not align with the other concentrations.
- The **Justice and Human Relations** concentration is for students interested in such fields as social work, counseling, clinical psychology, victimology, victim advocacy, juvenile justice, public/community relations in criminal justice, community organizing, diversity or social justice. (Interdisciplinary training and/or specialized graduate training are necessary for careers in many of those fields.)
- The **Law and Society** concentration is for students interested in the social relevance of law and social influences on law; this concentration is appropriate preparation for law school or graduate study in the social sciences.
- The **Policing** concentration is for students intending careers in law enforcement and other occupations related to security and public safety.
- The **Victimology** concentration is relevant for students interested in the scholarly study of crime victims, their treatment in the justice systems and programs that serve victims. It is useful for those interested in victim advocacy.

## Fully Offered At:

- Ashtabula Campus (General–Criminology and Justice Studies concentration only)
- East Liverpool Campus (General–Criminology and Justice Studies concentration only)
- Kent Campus (all concentrations)

- Salem Campus (General–Criminology and Justice Studies concentration only)
- Stark Campus (all concentrations except Victimology and Justice and Human Relations)
- Trumbull Campus (General–Criminology and Justice Studies concentration only)
- Tuscarawas Campus (General–Criminology and Justice Studies concentration only)

## Admission Requirements

The university affirmatively strives to provide educational opportunities and access to students with varied backgrounds, those with special talents and adult students who graduated from high school three or more years ago.

**Freshman Students on the Kent Campus:** The freshman admission policy on the Kent Campus is selective. Admission decisions are based upon the following: cumulative grade point average, ACT and/or SAT scores, strength of high school college preparatory curriculum and grade trends. The Admissions Office at the Kent Campus may defer the admission of students who do not meet admissions criteria but who demonstrate areas of promise for successful college study. Deferred applicants may begin their college coursework at one of seven regional campuses of Kent State University. For more information on admissions, including additional requirements for some academic programs, visit the admissions website for new freshmen.

**Freshman Students on the Regional Campuses:** Kent State campuses at Ashtabula, East Liverpool, Geauga, Salem, Stark, Trumbull and Tuscarawas, as well as the Regional Academic Center in Twinsburg, have open enrollment admission for students who hold a high school diploma, GED or equivalent.

**English Language Proficiency Requirements for International Students:** All international students must provide proof of English language proficiency (unless they meet specific exceptions) by earning a minimum 525 TOEFL score (71 on the Internet-based version), minimum 75 MELAB score, minimum 6.0 IELTS score or minimum 48 PTE score, or by completing the ESL level 112 Intensive Program. For more information on international admission, visit the Office of Global Education’s admission website.

**Transfer, Transitioning and Former Students:** For more information about admission criteria for transfer, transitioning and former students, please visit the admissions website.

## Program Learning Outcomes

Graduates of this program will be able to:

1. Communicate orally and in writing
2. Have substantive knowledge in specific areas of the discipline, namely law, law enforcement, corrections, courts and diversity
3. Demonstrate an understanding of ethics
4. Describe theoretical issues related to the causes of crime and development of justice practices
5. Find and explain research in the field
6. Develop critical thinking skills

## University Requirements

All students in a bachelor’s degree program at Kent State University must complete the following university requirements for graduation.

**NOTE:** University requirements may be fulfilled in this program by specific course requirements. Please see Program Requirements for details.

Destination Kent State: First Year Experience	1
Course is not required for students with 25 transfer credits, excluding College Credit Plus, or age 21+ at time of admission.	
Diversity Domestic/Global (DIVD/DIVG)	2 courses
Students must successfully complete one domestic and one global course, of which one must be from the Kent Core.	
Experiential Learning Requirement (ELR)	varies
Students must successfully complete one course or approved experience.	
Kent Core (see table below)	36-37
Writing-Intensive Course (WIC)	1 course
Students must earn a minimum C grade in the course.	
Upper-Division Requirement	39 (or 42)
Students must successfully complete 39 upper-division (numbered 30000 to 49999) credit hours to graduate. Students in a B.A. and/or B.S. degree in the College of Arts and Sciences must complete 42 upper-division credit hours.	
Total Credit Hour Requirement	120
Some bachelor’s degrees require students to complete more than 120 credit hours.	

## Kent Core Requirements

Kent Core Composition (KCMP)	6
Kent Core Mathematics and Critical Reasoning (KMCR)	3
Kent Core Humanities and Fine Arts (KHUM/KFA) (min one course each)	9
Kent Core Social Sciences (KSS) (must be from two disciplines)	6
Kent Core Basic Sciences (KBS/KLAB) (must include one laboratory)	6-7
Kent Core Additional (KADL)	6
<b>Total Credit Hours:</b>	<b>36-37</b>

## Program Requirements

### Major Requirements

Code	Title	Credit Hours
<b>Major Requirements (courses count in major GPA)</b>		
CRIM 12000	INTRODUCTION TO JUSTICE STUDIES	3
CRIM 26704	ISSUES IN LAW AND SOCIETY (KSS)	3
CRIM 36702	CRIMINOLOGY	3
CRIM 37311	MINORITIES IN CRIME AND JUSTICE (DIVD)	3
or CRIM 37411	WOMEN IN CRIME AND JUSTICE (DIVD)	
CRIM 47211	COURT FUNCTIONS	3
SOC 12050	INTRODUCTION TO SOCIOLOGY (DIVD) (KSS)	3
SOC 32210	RESEARCHING SOCIETY (ELR) (WIC) <sup>1</sup>	3
SOC 32220	DATA ANALYSIS <sup>2</sup>	3
SOC 32221	DATA ANALYSIS LABORATORY <sup>2</sup>	1
<b>Additional Requirements (courses do not count in major GPA)</b>		

UC 10097	DESTINATION KENT STATE: FIRST YEAR EXPERIENCE	1
Foreign Language (see Foreign Language College Requirement below)		14-16
College General Requirement (must be from Kent Core Basic Sciences) <sup>3</sup>		3
College General Requirement (must be from Kent Core Social Sciences) <sup>4</sup>		3
Kent Core Composition		6
Kent Core Mathematics and Critical Reasoning		3
Kent Core Humanities and Fine Arts (minimum one course from each)		9
Kent Core Basic Sciences (must include one laboratory)		6-7
Kent Core Additional		6
General Electives (total credit hours depends on earning 120 credit hours, including 42 upper-division credit hours)		29
<b>Concentrations</b>		
Choose from the following:		15
Corrections		
Criminology and Deviance		
General–Criminology and Justice Studies		
Justice and Human Relations		
Law and Society		
Policing		
Victimology		
Minimum Total Credit Hours:		120

<sup>1</sup> A minimum C grade must be earned to fulfill the writing-intensive requirement.

<sup>2</sup> Students declared in both the Psychology and Criminology and Justice Studies majors may substitute PSYC 21621 in place of SOC 32220 and SOC 32221.

<sup>3</sup> One additional course taken from the Kent Core Basic Science courses in the following Arts and Sciences disciplines: Anthropology (ANTH), Biological Sciences (BSCI), Chemistry (CHEM), Geography (GEOG), Geology (GEOL) or Physics (PHY). The course may not be from the student's major.

<sup>4</sup> One additional course taken from the Kent Core Social Science courses in the following Arts and Sciences disciplines: Anthropology (ANTH), Geography (GEOG), Criminology and Justice Studies (CRIM), Peace and Conflict Studies (PACS), Political Science (POL), Psychology (PSYC) or Sociology (SOC). The course may not be from the student's major.

## Corrections Concentration Requirements

Code	Title	Credit Hours
<b>Concentration Requirements (courses count in major GPA)</b>		
CRIM 26701	CORRECTIONS	3
CRIM 46705	COMMUNITY CORRECTIONS	3
CRIM 46707	CORRECTIONAL INSTITUTIONS	3
CRIM 46708	TREATMENT METHODS	3
Concentration Electives, choose from the following:		
CRIM 34200	CRIMINAL PROCEDURES AND EVIDENCE	
CRIM 34311	YOUTH AND THE JUSTICE SYSTEM	
CRIM 37311	MINORITIES IN CRIME AND JUSTICE (DIVD)	
CRIM 37411	WOMEN IN CRIME AND JUSTICE (DIVD)	
CRIM 46701	CRIME, JUSTICE AND SUBSTANCE ABUSE	

CRIM 46792	INTERNSHIP (ELR) <sup>1</sup>	
Minimum Total Credit Hours:		15

<sup>1</sup> CRIM 46792 is recommended to fulfill concentration requirement, but is not required. Maximum 3 credit hours of CRIM 46792 may count toward the concentration.

## Criminology and Deviance Concentration Requirements

Code	Title	Credit Hours
<b>Concentration Requirements (courses count in major GPA)</b>		
CRIM 22300	POLICE ROLE	3
or CRIM 26701	CORRECTIONS	
SOC 32762	DEVIANT BEHAVIOR	3
Concentration Electives, choose from the following:		
CRIM 27311	VICTIMOLOGY	
CRIM 36703	JUVENILE DELINQUENCY	
CRIM 37311	MINORITIES IN CRIME AND JUSTICE (DIVD)	
CRIM 37411	WOMEN IN CRIME AND JUSTICE (DIVD)	
CRIM 47095	SPECIAL TOPICS IN CRIMINOLOGY AND JUSTICE STUDIES	
SOC 22778	SOCIAL PROBLEMS (DIVG) (KSS)	
SOC 32570	INEQUALITY IN SOCIETIES (DIVD)	
SOC 42577	SOCIOLOGY OF FAMILY VIOLENCE	
Minimum Total Credit Hours:		15

## General–Criminology and Justice Studies Concentration Requirements

Code	Title	Credit Hours
<b>Concentration Requirements (courses count in major GPA)</b>		
CRIM 22300	POLICE ROLE	3
or CRIM 26701	CORRECTIONS	
Criminology and Justice Studies (CRIM) Electives <sup>1</sup>		6-12
Concentration Electives, choose from the following:		
PHIL 31035	PHILOSOPHY AND JUSTICE (DIVD)	
POL 30130	THE JUDICIAL PROCESS	
POL 30301	INTRODUCTION TO PUBLIC ADMINISTRATION	
POL 40183	CONSTITUTIONAL LAW: CIVIL RIGHTS AND LIBERTIES (DIVD)	
PSYC 30111	FORENSIC PSYCHOLOGY	
PSYC 40111	ABNORMAL PSYCHOLOGY	
PSYC 40383	INTRODUCTION TO CLINICAL PSYCHOLOGY	
SOC 32570	INEQUALITY IN SOCIETIES (DIVD)	
SOC 32762	DEVIANT BEHAVIOR	
SOC 42577	SOCIOLOGY OF FAMILY VIOLENCE	
Paralegal Studies (PLST) Courses <sup>2</sup>		
Minimum Total Credit Hours:		15

<sup>1</sup> A maximum 6 credit hours of the following courses may be used to fulfill the concentration electives: CRIM 45093, CRIM 45096, CRIM 46792 and/or CRIM 46798. CRIM 46792 is recommended to fulfill concentration requirement, but is not required.

<sup>2</sup> PLST 36792 may **not** be used as a concentration elective.

## Justice and Human Relations Concentration Requirements

Code	Title	Credit Hours
<b>Concentration Requirements (courses count in major GPA)</b>		
CRIM 22300 or CRIM 26701	POLICE ROLE CORRECTIONS	3
CRIM 37511  or CRIM 47002 or PLST 28003 or POL 40183	IMMIGRATION: LAW, CRIME AND JUSTICE (DIVD) HUMAN SERVICE AGENCIES AND THE LAW FAMILY LAW AND PROCEDURE CONSTITUTIONAL LAW: CIVIL RIGHTS AND LIBERTIES (DIVD)	3
Concentration Electives, choose from the following:		9
CRIM 27311	VICTIMOLOGY	
CRIM 32200	POLICE AND COMMUNITY	
CRIM 32500	CRISIS INTERVENTION	
CRIM 34311	YOUTH AND THE JUSTICE SYSTEM	
CRIM 36703	JUVENILE DELINQUENCY	
CRIM 37311	MINORITIES IN CRIME AND JUSTICE (DIVD)	
CRIM 37411	WOMEN IN CRIME AND JUSTICE (DIVD)	
CRIM 37511	IMMIGRATION: LAW, CRIME AND JUSTICE (DIVD)	
CRIM 46701	CRIME, JUSTICE AND SUBSTANCE ABUSE	
CRIM 46708	TREATMENT METHODS	
CRIM 46792	INTERNSHIP (ELR) <sup>1</sup>	
CRIM 47002	HUMAN SERVICE AGENCIES AND THE LAW	
CRIM 47095	SPECIAL TOPICS IN CRIMINOLOGY AND JUSTICE STUDIES	
PLST 28003	FAMILY LAW AND PROCEDURE	
POL 40183	CONSTITUTIONAL LAW: CIVIL RIGHTS AND LIBERTIES (DIVD)	
PSYC 40111	ABNORMAL PSYCHOLOGY	
PSYC 40383	INTRODUCTION TO CLINICAL PSYCHOLOGY	
SOC 32570	INEQUALITY IN SOCIETIES (DIVD)	
SOC 32762	DEVIANT BEHAVIOR	
Minimum Total Credit Hours:		15

<sup>1</sup> CRIM 46792 is recommended to fulfill concentration requirement, but is not required. Maximum 3 credit hours of CRIM 46792 may count toward the concentration.

## Law and Society Concentration Requirements

Code	Title	Credit Hours
<b>Concentration Requirements (courses count in major GPA)</b>		
CRIM 22300 or CRIM 26701	POLICE ROLE CORRECTIONS	3
Category One Concentration Electives, choose from the following:		6
CRIM 34311	YOUTH AND THE JUSTICE SYSTEM	
CRIM 36703	JUVENILE DELINQUENCY	
CRIM 37311	MINORITIES IN CRIME AND JUSTICE (DIVD)	
CRIM 37411	WOMEN IN CRIME AND JUSTICE (DIVD)	
CRIM 37511	IMMIGRATION: LAW, CRIME AND JUSTICE (DIVD)	
PLST 28003	FAMILY LAW AND PROCEDURE	
Category Two Concentration Electives, choose from the following:		6
CRIM 32200	POLICE AND COMMUNITY	

CRIM 33200	CRIMINAL LAW	
CRIM 33300	DEVELOPMENT OF JUSTICE IN AMERICA	
CRIM 33400	CRIME AND JUSTICE IN POPULAR CULTURE	
CRIM 46792	INTERNSHIP (ELR) <sup>1</sup>	
CRIM 47095	SPECIAL TOPICS IN CRIMINOLOGY AND JUSTICE STUDIES	
CRIM 47311	COMPARATIVE JUSTICE SYSTEMS	
SOC 32762	DEVIANT BEHAVIOR	
Minimum Total Credit Hours:		15

<sup>1</sup> CRIM 46792 is recommended to fulfill concentration requirement, but is not required. Maximum 3 credit hours of CRIM 46792 may count toward the concentration or major requirements.

## Policing Concentration Requirements

Code	Title	Credit Hours
<b>Concentration Requirements (courses count in major GPA)</b>		
CRIM 22300	POLICE ROLE	3
CRIM 32200	POLICE AND COMMUNITY	3
CRIM 34200	CRIMINAL PROCEDURES AND EVIDENCE	3
CRIM 37311 or CRIM 37411	MINORITIES IN CRIME AND JUSTICE (DIVD) WOMEN IN CRIME AND JUSTICE (DIVD)	3
Concentration Elective, choose from the following:		3
CRIM 22301	THE INVESTIGATIVE PROCESS	
CRIM 27311	VICTIMOLOGY	
CRIM 32500	CRISIS INTERVENTION	
CRIM 46792	INTERNSHIP (ELR) <sup>1</sup>	
Minimum Total Credit Hours:		15

<sup>1</sup> CRIM 46792 is recommended to fulfill concentration requirement, but is not required. Maximum 3 credit hours of CRIM 46792 may count toward the concentration or major requirements.

## Victimology Concentration Requirements

Code	Title	Credit Hours
<b>Concentration Requirements (courses count in major GPA)</b>		
CRIM 22300 or CRIM 26701	POLICE ROLE CORRECTIONS	3
CRIM 27311	VICTIMOLOGY	3
Concentration Electives, choose from the following:		9
CRIM 32500	CRISIS INTERVENTION	
CRIM 37311	MINORITIES IN CRIME AND JUSTICE (DIVD)	
CRIM 37411	WOMEN IN CRIME AND JUSTICE (DIVD)	
CRIM 37511	IMMIGRATION: LAW, CRIME AND JUSTICE (DIVD)	
CRIM 46701	CRIME, JUSTICE AND SUBSTANCE ABUSE	
CRIM 47002	HUMAN SERVICE AGENCIES AND THE LAW	
CRIM 47003	RESTORATIVE JUSTICE AND VICTIM ASSISTANCE	
Minimum Total Credit Hours:		15

## GRADUATION REQUIREMENTS

Minimum Major GPA	Minimum Overall GPA
2.000	2.000

- Students must complete a minimum of 9 credit hours of upper-division courses in their declared concentration(s).

## Foreign Language College Requirement

Students pursuing the Bachelor of Arts degree in the College of Arts and Sciences must complete 14-16 credit hours of foreign language.<sup>1</sup>

To complete the requirement, students have the equivalent of Elementary I and II in any language, plus one of the following options:

1. Intermediate I and II of the same language<sup>2</sup>
2. Elementary I and II of a second language
3. Any combination of two courses from the following list:
  - Intermediate I of the same language
  - MCLS 10001 INTRODUCTION TO STRUCTURAL CONCEPTS FOR LANGUAGE STUDENTS
  - MCLS 20091 VARIABLE CONTENT SEMINAR IN GLOBAL LITERACY: CASE STUDIES
  - MCLS 21417 MULTICULTURALISM IN TODAY'S GERMANY (DIVG)
  - MCLS 28404 THE LATIN AMERICAN EXPERIENCE (DIVG)

<sup>1</sup> All students with prior foreign language experience should take the foreign language placement test to determine the appropriate level at which to start. Some students may begin beyond the Elementary I level and will complete the requirement with fewer credit hours and fewer courses. This may be accomplished by (1) passing a course beyond Elementary I through Intermediate II level; (2) receiving credit through Credit by Exam (CBE), Advanced Placement (AP), International Baccalaureate (IB) or College Level Examination Program (CLEP); or (3) being designated a 'native speaker' of a non-English language (consult with the College of Arts and Sciences Advising Office for additional information). When students complete the requirement with fewer than 14 credit hours and four courses, they will complete remaining credit hours with general electives.

<sup>2</sup> Certain majors, concentrations and minors may require specific languages, limit the languages from which a student may choose or require coursework through Intermediate II. Students who plan to pursue graduate study may need particular language coursework.



## **Roadmaps**

- Corrections Concentration
  - Criminology and Deviance Concentration
  - General - Criminology and Justice Studies Concentration
  - Justice and Human Relations Concentration
  - Law and Society Concentration
  - Policing Concentration
  - Victimology Concentration
-

This roadmap is a recommended semester-by-semester plan of study for this major. However, courses designated as critical (!) must be completed in the semester listed to ensure a timely graduation.

<b>Semester One</b>		<b>Credits</b>
!	CRIM 12000 INTRODUCTION TO JUSTICE STUDIES	3
	UC 10097 DESTINATION KENT STATE: FIRST YEAR EXPERIENCE	1
	Foreign Language	4
	Kent Core Requirement	3
	Kent Core Requirement	3
Credit Hours		14
<b>Semester Two</b>		
	SOC 12050 INTRODUCTION TO SOCIOLOGY (DIVD) (KSS)	3
	Foreign Language	4
	Kent Core Requirement	3
	Kent Core Requirement	3
	Kent Core Requirement	3
Credit Hours		16
<b>Semester Three</b>		
	CRIM 26704 ISSUES IN LAW AND SOCIETY (KSS)	3
	Concentration Requirement	3
	Foreign Language	3
	Kent Core Requirement	3
	Kent Core Requirement	3
Credit Hours		15
<b>Semester Four</b>		
	Concentration Requirement	3
	Foreign Language	3
	College General Requirement	3
	Kent Core Requirement	3
	Kent Core Requirement	3
Credit Hours		15
<b>Semester Five</b>		
	CRIM 36702 CRIMINOLOGY	3
	CRIM 37311 MINORITIES IN CRIME AND JUSTICE (DIVD) or CRIM 37411 or WOMEN IN CRIME AND JUSTICE (DIVD)	3
!	SOC 32210 RESEARCHING SOCIETY (ELR) (WIC)	3
	College General Requirement	3
	Kent Core Requirement	3
Credit Hours		15
<b>Semester Six</b>		
!	SOC 32220 DATA ANALYSIS	3
!	SOC 32221 DATA ANALYSIS LABORATORY	1
	Concentration Requirements	9
	General Elective	3
Credit Hours		16
<b>Semester Seven</b>		
	CRIM 47211 COURT FUNCTIONS	3
	General Electives	12
Credit Hours		15
<b>Semester Eight</b>		
	General Electives	14
Credit Hours		14
Minimum Total Credit Hours:		120









## Criminology and Justice Studies - Minor

### College of Arts and Sciences

Department of Sociology  
215 Merrill Hall  
Kent Campus  
330-672-2562  
www.kent.edu/sociology

## Description

The Criminology and Justice Studies minor aligns well for students declared in the psychology, sociology, political science and peace and conflict studies majors, as well as for those students interested in forensics. The program provides students with a broad understanding of the functions, roles and critical issues within the components of criminal, juvenile and civil justice.

### Fully Offered At:

- Ashtabula Campus
- East Liverpool Campus
- Geauga Campus
- Kent Campus
- Salem Campus
- Stark Campus
- Trumbull Campus
- Tuscarawas Campus

## Admission Requirements

Admission to a minor is open to students declared in a bachelor's degree, the A.A.B. or A.A.S. degree or the A.T.S. degree (not Individualized Program major). Students declared only in the A.A. or A.S. degree or the A.T.S. degree in Individualized Program may not declare a minor. Students may not pursue a minor and a major in the same discipline.

## Minor Requirements

Code	Title	Credit Hours
<b>Minor Requirements</b>		
CRIM 12000	INTRODUCTION TO JUSTICE STUDIES	3
CRIM 22300	POLICE ROLE	3
or CRIM 26701	CORRECTIONS	
CRIM 26704	ISSUES IN LAW AND SOCIETY (KSS)	3
CRIM 36702	CRIMINOLOGY	3
Criminology and Justice Studies Upper-Division Electives (CRIM 30000 or 40000 level) <sup>1</sup>		9
Additional Criminology and Justice Studies or Paralegal Studies Upper-Division Electives (CRIM or PLST 30000 or 40000 level) <sup>1</sup>		3
Minimum Total Credit Hours:		24

<sup>1</sup> Courses that cannot be used as upper-division electives: CRIM 45093, CRIM 45096, CRIM 46792 and PLST 36792.

## Graduation Requirements

Minimum Minor GPA	Minimum Overall GPA
2.000	2.000

- Students must complete at least two upper-division (30000 or 40000 level) courses in the minor at Kent State on a graded basis (A-F).
- Minimum 6 credit hours in the minor must be upper-division coursework (30000 and 40000 level).
- Minimum 6 credit hours in the minor must be outside of the course requirements for any major or other minor the student is pursuing.
- Minimum 50 percent of the total credit hours for the minor must be taken at Kent State (in residence).

## Sociology - B.A.

### College of Arts and Sciences

Department of Sociology  
215 Merrill Hall  
Kent Campus  
330-672-2562  
www.kent.edu/sociology

## Description

The Bachelor of Arts degree in Sociology provides broad training in the theories and methods that sociologists use to understand contemporary social issues and problems. Students are encouraged to think critically as they examine issues ranging from small group behavior to global social movements. The core curriculum focuses on social inequalities, social psychology and health and illness. In addition, the program offers courses on a variety of topics, including urban living, deviant behavior, religion and family.

All students in the Sociology major select at least one concentration from the seven offered, in consultation with the undergraduate coordinator of sociology, department faculty or academic advisor.

The Sociology major comprises the following concentrations:

- The **Cultural Sociology** concentration examines culture, which includes matters of social status and cultural distinctions; values, norms and beliefs; ethnicity and ethnic diversity; religion; language; art; popular culture, consumption/consumerism and style; and material culture (e.g., mass media, technology, architecture, food). This concentration addresses the role of culture in a diversity of social contexts, including urban life and organizations. It is relevant for students interested in careers in human or social services, nonprofit and community organizations, research and government agencies and human resources, as well as graduate study in the social sciences or humanities.
- The **Family and Life Course Sociology** concentration introduces students to the cultural, political and historical realities and changes in families across the lifespan. Courses examine issues such as gender socialization, dating and romance, cohabitation, marriage, divorce, parenthood, domestic violence, death and dying, family diversity and family policy. This concentration is relevant to students interested in careers in health care promotion, public health, family counseling, long-term care institutions, program planning, community

education and policy analysis, as well as graduate study in the social sciences.

- The **General** concentration is for students who either choose not to pursue a specialization within the major or wish to pursue an individualized program of study (through sociology electives) that does not align with the substantive concentrations.
- The **Medical Sociology** concentration introduces students to the relationship between society and health. In this concentration, students study the impact of social, cultural, political and economic factors on health (and vice-versa). Courses in this area examine issues such as health behavior, physical and mental illnesses, doctor-patient interaction, medicalization, health care reform, health care delivery and health policy. This concentration is relevant for students interested in careers in administrative and program planning related to medicine, mental health, social services, patient advocacy, mental health facilities and nursing homes, as well as graduate study in the social sciences.
- The **Social Inequalities** concentration examines how social structural factors, such as age, gender, race, ethnicity, social class and sexuality relate to power, social status, wealth, income, health and morality. Courses in this area examine issues of poverty, race and ethnic inequality, sexism, age discrimination, neighborhood segregation, labor market processes and income disparity. This concentration is relevant for students interested in careers related to human or social services, nonprofit and community organizations, research and government agencies and human resources, as well as graduate study in the social sciences.
- The **Social Problems, Deviance and Crime** concentration examines a variety of social problems with special emphasis on types of behavior that are inconsistent with social norms, challenge to social order and are illegal. This concentration also examines the role of morality, public opinion, politics, government, law, and institutions of social control in the definition of, as well as the response to, social problems, deviance and crime. While containing some overlap with other concentrations in the Criminology and Justice Studies major, the sociological perspective here suggests important commonalities across the studies of crime, deviance and social problems, as well as the relevance of broad sociological themes, including critical inquiry, empirical research and increased awareness of social context. This concentration provides relevant preparation for students interested in further study in the areas of public safety, social policy, social services and civil service and graduate studies in law or social science. It can also be a convenient and constructive resource enabling a double major between Sociology and Criminology and Justice Studies.
- The **Sociological Social Psychology** concentration introduces students to the sociological approach to social psychology. Courses in this area examine theoretical perspectives that link structural factors such as gender, social class and race to individual factors and behaviors such as self-concept, identity, deviance and mental health. Courses typically include an overview of specific sociological topics such as socialization, emotions, social influence, group conflict and decision-making, prejudice and discrimination, status and power and interpersonal relationships. This concentration provides a foundation for students interested in careers or graduate work that focus on the many connections between individuals and the groups to which they belong.

## Fully Offered At:

- Ashtabula Campus (all concentration)
- Kent Campus (all concentrations)
- Stark Campus (General; Social Inequalities; Social Problems, Deviance and Crime; and Sociological Social Psychology concentrations)

## Admission Requirements

The university affirmatively strives to provide educational opportunities and access to students with varied backgrounds, those with special talents and adult students who graduated from high school three or more years ago.

**Freshman Students on the Kent Campus:** The freshman admission policy on the Kent Campus is selective. Admission decisions are based upon the following: cumulative grade point average, ACT and/or SAT scores, strength of high school college preparatory curriculum and grade trends. The Admissions Office at the Kent Campus may defer the admission of students who do not meet admissions criteria but who demonstrate areas of promise for successful college study. Deferred applicants may begin their college coursework at one of seven regional campuses of Kent State University. For more information on admissions, including additional requirements for some academic programs, visit the admissions website for new freshmen.

**Freshman Students on the Regional Campuses:** Kent State campuses at Ashtabula, East Liverpool, Geauga, Salem, Stark, Trumbull and Tuscarawas, as well as the Regional Academic Center in Twinsburg, have open enrollment admission for students who hold a high school diploma, GED or equivalent.

**English Language Proficiency Requirements for International Students:** All international students must provide proof of English language proficiency (unless they meet specific exceptions) by earning a minimum 525 TOEFL score (71 on the Internet-based version), minimum 75 MELAB score, minimum 6.0 IELTS score or minimum 48 PTE score, or by completing the ESL level 112 Intensive Program. For more information on international admission, visit the Office of Global Education's admission website.

**Transfer, Transitioning and Former Students:** For more information about admission criteria for transfer, transitioning and former students, please visit the admissions website.

## Program Learning Outcomes

Graduates of this program will be able to:

1. Describe how sociology is similar to and different from other social sciences
2. Show how one's personal life is shaped by the time and place in which one lives
3. Demonstrate how institutions of family, education, religion, medicine and the economy are interrelated
4. Understand the interrelationships between social structures and individuals in society
5. Distinguish between individualistic, cultural and structural explanations of social events

## University Requirements

All students in a bachelor's degree program at Kent State University must complete the following university requirements for graduation.

**NOTE:** University requirements may be fulfilled in this program by specific course requirements. Please see Program Requirements for details.

Destination Kent State: First Year Experience	1
Course is not required for students with 25 transfer credits, excluding College Credit Plus, or age 21+ at time of admission.	
Diversity Domestic/Global (DIVD/DIVG)	2 courses
Students must successfully complete one domestic and one global course, of which one must be from the Kent Core.	
Experiential Learning Requirement (ELR)	varies
Students must successfully complete one course or approved experience.	
Kent Core (see table below)	36-37
Writing-Intensive Course (WIC)	1 course
Students must earn a minimum C grade in the course.	
Upper-Division Requirement	39 (or 42)
Students must successfully complete 39 upper-division (numbered 30000 to 49999) credit hours to graduate. Students in a B.A. and/or B.S. degree in the College of Arts and Sciences must complete 42 upper-division credit hours.	
Total Credit Hour Requirement	120
Some bachelor's degrees require students to complete more than 120 credit hours.	

## Kent Core Requirements

Kent Core Composition (KCOMP)	6
Kent Core Mathematics and Critical Reasoning (KMCR)	3
Kent Core Humanities and Fine Arts (KHUM/KFA) (min one course each)	9
Kent Core Social Sciences (KSS) (must be from two disciplines)	6
Kent Core Basic Sciences (KBS/KLAB) (must include one laboratory)	6-7
Kent Core Additional (KADL)	6
<b>Total Credit Hours:</b>	<b>36-37</b>

## Program Requirements

### Major Requirements

Code	Title	Credit Hours
<b>Major Requirements (courses count in major GPA)</b>		
SOC 12050	INTRODUCTION TO SOCIOLOGY (DIVD) (KSS)	3
SOC 32210	RESEARCHING SOCIETY (ELR) (WIC) <sup>1</sup>	3
SOC 32220	DATA ANALYSIS <sup>2</sup>	3
SOC 32221	DATA ANALYSIS LABORATORY <sup>2</sup>	1
SOC 42126	SOCIOLOGICAL THEORIES	3
Sociology (SOC) Elective <sup>3</sup>		3
Sociology (SOC) Upper-Division Electives (30000 or 40000 level) <sup>3</sup>		6
<b>Additional Requirements (courses do not count in major GPA)</b>		
UC 10097	DESTINATION KENT STATE: FIRST YEAR EXPERIENCE	1
Foreign Language (see Foreign Language College Requirement below)		14-16
Kent Core Composition		6

Kent Core Mathematics and Critical Reasoning	3
Kent Core Humanities and Fine Arts (minimum one course from each)	9
Kent Core Social Sciences (must be from two disciplines)	3
Kent Core Basic Sciences (must include one laboratory)	6-7
Kent Core Additional	6
College General Requirement (must be from Kent Core Basic Sciences) <sup>4</sup>	3
College General Requirement (must be from Kent Core Social Sciences) <sup>5</sup>	3
General Electives (total credit hours depends on earning 120 credit hours, including 42 upper-division credit hours)	32
<b>Concentrations</b>	
Choose from the following:	12
Cultural Sociology	
Family and Life Course Sociology	
General	
Medical Sociology	
Social Inequalities	
Social Problems, Deviance and Crime	
Sociological Social Psychology	

Minimum Total Credit Hours: 120

- A minimum C grade must be earned to fulfill the writing-intensive requirement.
- Students who have declared majors in **both** Sociology and Psychology may substitute PSYC 21621 for SOC 32220 and SOC 32221.
- Students may take up to 12 credit hours of SOC 42092 but only 3 credits will count towards major or concentration requirements.
- One additional course taken from the Kent Core Basic Science courses in the following Arts and Sciences disciplines: Anthropology (ANTH), Biological Sciences (BSCI), Chemistry (CHEM), Geography (GEOG), Geology (GEOL) or Physics (PHY). Students may take the courses listed in the 'introductory' sequences with the restrictions noted above in the Kent Core Basic Science section. The course may not be from the student's major.
- One additional course taken from the Kent Core Social Sciences courses in the following Arts and Sciences disciplines: Anthropology (ANTH), Geography (GEOG), Criminology and Justice Studies (CRIM), Peace and Conflict Studies (PACS), Political Science (POL), Psychology (PSYC) or Sociology (SOC). The course may not be from the student's major.

### Cultural Sociology Concentration Requirements

Code	Title	Credit Hours
<b>Concentration Requirements (courses count in major GPA)</b>		
SOC 32673	URBAN SOCIOLOGY	3
SOC 42559	CULTURE AND SOCIETY	3
Concentration Electives, choose from the following:		6
CRIM 33400	CRIME AND JUSTICE IN POPULAR CULTURE	
SOC 32570	INEQUALITY IN SOCIETIES (DIVD)	
or SOC 42315	SOCIOLOGY OF GENDER (DIVD)	
or SOC 42568	RACE AND ETHNIC STUDIES (DIVD)	
SOC 42010	DEATH AND DYING	
SOC 42560	SOCIOLOGY OF FOOD	
SOC 42092	INTERNSHIP IN SOCIOLOGY (ELR) <sup>1</sup>	
SOC 42561	SOCIOLOGY OF RELIGION	

SOC 42564	BUREAUCRATIC ORGANIZATIONS	
Minimum Total Credit Hours:		12

<sup>1</sup> Students may take up to 12 credit hours of SOC 42092 but only 3 credits will count towards major or concentration requirements.

### Family and Life Course Sociology Concentration Requirements

Code	Title	Credit Hours
<b>Concentration Requirements (courses count in major GPA)</b>		
SOC 24011	INTERPERSONAL RELATIONSHIPS AND FAMILIES	3
or SOC 32560	SOCIOLOGY OF FAMILIES (DIVD)	
Concentration Electives, choose from the following:		9
SOC 32565	SOCIOLOGY OF SEXUALITIES (DIVD)	
SOC 42010	DEATH AND DYING	
SOC 42315	SOCIOLOGY OF GENDER (DIVD)	
SOC 42092	INTERNSHIP IN SOCIOLOGY (ELR) <sup>1</sup>	
SOC 42421	CHILDHOOD IN SOCIETY	
SOC 42478	ADOLESCENCE IN SOCIETY	
SOC 42575	FAMILIES IN A GLOBAL PERSPECTIVE (DIVG)	
SOC 42577	SOCIOLOGY OF FAMILY VIOLENCE	
SOC 42879	AGING IN SOCIETY (DIVD)	
Minimum Total Credit Hours:		12

<sup>1</sup> Students may take up to 12 credit hours of SOC 42092 but only 3 credits will count towards major or concentration requirements.

### General Concentration Requirements

Code	Title	Credit Hours
<b>Concentration Requirements (courses count in major GPA) <sup>1</sup></b>		
	Sociology (SOC) Elective	3
	Sociology Upper-Division Electives (SOC 30000 or 40000 level)	9
Minimum Total Credit Hours:		12

<sup>1</sup> Students are limited to 3 credit hours of SOC 42092.

### Medical Sociology Concentration Requirements

Code	Title	Credit Hours
<b>Concentration Requirements (courses count in major GPA)</b>		
SOC 22570	UNDERSTANDING DIFFERENCES AND INEQUALITY <sup>1</sup>	3
or SOC 22778	SOCIAL PROBLEMS (DIVG) (KSS)	
or SOC 32570	INEQUALITY IN SOCIETIES (DIVD)	
or SOC 42092	INTERNSHIP IN SOCIOLOGY (ELR)	
SOC 42010	DEATH AND DYING	3
or SOC 42879	AGING IN SOCIETY (DIVD)	
SOC 42562	SOCIOLOGY OF MENTAL ILLNESS	3
SOC 42563	SOCIOLOGY OF HEALTH AND HEALTH CARE	3
Minimum Total Credit Hours:		12

<sup>1</sup> Students may take up to 12 credit hours of SOC 42092 but only 3 credits will count towards major or concentration requirements.

### Social Inequalities Concentration Requirements

Code	Title	Credit Hours
<b>Concentration Requirements (courses count in major GPA)</b>		
SOC 22570	UNDERSTANDING DIFFERENCES AND INEQUALITY <sup>1</sup>	3
or SOC 22778	SOCIAL PROBLEMS (DIVG) (KSS)	
or SOC 32570	INEQUALITY IN SOCIETIES (DIVD)	
Concentration Electives, choose from the following:		9
SOC 32565	SOCIOLOGY OF SEXUALITIES (DIVD)	
SOC 32569	MINORITIES IN THE UNITED STATES (DIVD)	
SOC 32673	URBAN SOCIOLOGY	
SOC 42092	INTERNSHIP IN SOCIOLOGY (ELR) <sup>2</sup>	
SOC 42315	SOCIOLOGY OF GENDER (DIVD)	
SOC 42558	WEALTH, POVERTY AND POWER	
SOC 42568	RACE AND ETHNIC STUDIES (DIVD)	
SOC 42879	AGING IN SOCIETY (DIVD)	
Minimum Total Credit Hours:		12

<sup>1</sup> Students may take a second course from this area, substituting it for one of the concentration requirements listed below.

<sup>2</sup> Students may take up to 12 credit hours of SOC 42092 but only 3 credits will count towards major or concentration requirements.

### Social Problems, Deviance and Crime Concentration Requirements

Code	Title	Credit Hours
<b>Concentration Requirements (courses count in major GPA)</b>		
CRIM 36702	CRIMINOLOGY	3
or SOC 32762	DEVIANT BEHAVIOR	
SOC 22778	SOCIAL PROBLEMS (DIVG) (KSS)	3
SOC 32570	INEQUALITY IN SOCIETIES (DIVD)	3
or SOC 42558	WEALTH, POVERTY AND POWER	
Concentration Elective, choose from the following:		3
CRIM 26704	ISSUES IN LAW AND SOCIETY (KSS)	
CRIM 33400	CRIME AND JUSTICE IN POPULAR CULTURE	
CRIM 36703	JUVENILE DELINQUENCY	
CRIM 37311	MINORITIES IN CRIME AND JUSTICE (DIVD)	
CRIM 37411	WOMEN IN CRIME AND JUSTICE (DIVD)	
CRIM 37511	IMMIGRATION: LAW, CRIME AND JUSTICE (DIVD)	
SOC 42092	INTERNSHIP IN SOCIOLOGY (ELR) <sup>1</sup>	
CRIM 46701	CRIME, JUSTICE AND SUBSTANCE ABUSE	
SOC 42562	SOCIOLOGY OF MENTAL ILLNESS	
Minimum Total Credit Hours:		12

<sup>1</sup> Students may take up to 12 credit hours of SOC 42092 but only 3 credits will count towards major or concentration requirements.

### Sociological Social Psychology Concentration Requirements

Code	Title	Credit Hours
<b>Concentration Requirements (courses count in major GPA)</b>		
SOC 32400	INDIVIDUAL AND SOCIETY	3
Concentration Electives, choose from the following:		9
SOC 32762	DEVIANT BEHAVIOR	

SOC 42092	INTERNSHIP IN SOCIOLOGY (ELR) <sup>1</sup>
SOC 42315	SOCIOLOGY OF GENDER (DIVD)
SOC 42400	SELF AND IDENTITY
SOC 42562	SOCIOLOGY OF MENTAL ILLNESS
SOC 43200	SOCIAL STRUCTURE AND INDIVIDUAL LIVES

Minimum Total Credit Hours: 12

<sup>1</sup> Students may take up to 12 credit hours of SOC 42092 but only 3 credits will count towards major or concentration requirements.

## Graduation Requirements

Minimum Major GPA	Minimum Overall GPA
2.000	2.000

## Foreign Language College Requirement

Students pursuing the Bachelor of Arts degree in the College of Arts and Sciences must complete 14-16 credit hours of foreign language.<sup>1</sup>

To complete the requirement, students have the equivalent of Elementary I and II in any language, plus one of the following options:

1. Intermediate I and II of the same language <sup>2</sup>
2. Elementary I and II of a second language
3. Any combination of two courses from the following list:
  - Intermediate I of the same language
  - MCLS 10001 INTRODUCTION TO STRUCTURAL CONCEPTS FOR LANGUAGE STUDENTS
  - MCLS 20091 VARIABLE CONTENT SEMINAR IN GLOBAL LITERACY: CASE STUDIES
  - MCLS 21417 MULTICULTURALISM IN TODAY'S GERMANY (DIVG)
  - MCLS 28404 THE LATIN AMERICAN EXPERIENCE (DIVG)

<sup>1</sup> All students with prior foreign language experience should take the foreign language placement test to determine the appropriate level at which to start. Some students may begin beyond the Elementary I level and will complete the requirement with fewer credit hours and fewer courses. This may be accomplished by (1) passing a course beyond Elementary I through Intermediate II level; (2) receiving credit through Credit by Exam (CBE), Advanced Placement (AP), International Baccalaureate (IB) or College Level Examination Program (CLEP); or (3) being designated a 'native speaker' of a non-English language (consult with the College of Arts and Sciences Advising Office for additional information). When students complete the requirement with fewer than 14 credit hours and four courses, they will complete remaining credit hours with general electives.

<sup>2</sup> Certain majors, concentrations and minors may require specific languages, limit the languages from which a student may choose or require coursework through Intermediate II. Students who plan to pursue graduate study may need particular language coursework.

- To fulfill the diversity requirement, students must take one global diversity course that is not a sociology (SOC) course.



## Roadmap

This roadmap is a recommended semester-by-semester plan of study for this major. However, courses designated as critical (!) must be completed in the semester listed to ensure a timely graduation.

Semester One		Credits
SOC 12050	INTRODUCTION TO SOCIOLOGY (DIVD) (KSS)	3
UC 10097	DESTINATION KENT STATE: FIRST YEAR EXPERIENCE	1
Foreign Language		4
Kent Core Requirement		3
Kent Core Requirement		3
Credit Hours		14
Semester Two		Credits
Concentration Requirement		3
Foreign Language		4
Kent Core Requirement		3
Kent Core Requirement		3
Kent Core Requirement		3
Credit Hours		16
Semester Three		Credits
Concentration Requirement		3
Foreign Language		3
College General Requirement		3
Kent Core Requirement		3
Kent Core Requirement		3
Credit Hours		15
Semester Four		Credits
Concentration Requirement		3
Foreign Language		3
College General Requirement		3
Kent Core Requirement		3
Kent Core Requirement		3
Credit Hours		15
Semester Five		Credits
!	SOC 32210 RESEARCHING SOCIETY (ELR) (WIC)	3
Concentration Requirement		3
Sociology (SOC) Elective		3
Kent Core Requirement		3
General Elective		3
Credit Hours		15
Semester Six		Credits
!	SOC 32220 DATA ANALYSIS	3
!	SOC 32221 DATA ANALYSIS LABORATORY	1
Sociology (SOC) Upper-Division Electives (30000 or 40000 level)		6
Kent Core Requirement		3
General Elective		3
Credit Hours		16
Semester Seven		Credits
!	SOC 42126 SOCIOLOGICAL THEORIES	3
General Electives		12
Credit Hours		15
Semester Eight		Credits
General Electives		14
Credit Hours		14
Minimum Total Credit Hours:		120

## Sociology - M.A.

### College of Arts and Sciences

Department of Sociology

215 Merrill Hall

Kent Campus

330-672-2562

[www.kent.edu/sociology](http://www.kent.edu/sociology)

## Description

The Master of Arts degree in Sociology is an intermediate degree required of students in the doctoral program.

### FULLY OFFERED AT:

- Kent Campus

## Admission Requirements

Students with an earned bachelor's or master's degree are admitted into the Ph.D. in Sociology. For more information about graduate admissions, please visit the Graduate Studies website. For unconditional admission.

## Program Requirements

### Major Requirements

Code	Title	Credit Hours
<b>Major Requirements</b>		
SOC 62002	PROFESSIONAL AND ETHICAL ISSUES IN SOCIOLOGY	3
SOC 62100	EARLY SOCIOLOGICAL THEORY	3
SOC 62199	THESIS I	6
SOC 62211	QUANTITATIVE METHODS IN SOCIOLOGY	4
SOC 62217	MULTIVARIATE TECHNIQUES IN SOCIOLOGY	4
Electives <sup>1</sup>		13
Minimum Total Credit Hours:		33

<sup>1</sup> No more than 6 credit hours of SOC 62896 and/or SOC 62898 may be applied toward the degree as elective credits. No more than 3 credit hours of 50000-level coursework may be applied toward the degree as elective credit. No more than 6 credit hours of graduate-level coursework outside the department may be applied toward the degree as elective credit.

## Sociology - Minor

### College of Arts and Sciences

Department of Sociology

215 Merrill Hall

Kent Campus

330-672-2562

[www.kent.edu/sociology](http://www.kent.edu/sociology)

## Description

The Sociology minor provides students with a broad understanding of the theoretical, methodological and substantive issues relevant to the

field, as well as the tools necessary to apply this knowledge to other areas of study. Students explore the intersections between culture, social structure and individual behavior by examining issues related to social inequality, health and healthcare, deviance, families and family violence, urban communities, social psychology and more.

The skills developed in the Sociology minor allow students to connect their own life experiences to the experiences of other people, communities and cultures.

### Fully Offered At:

- Ashtabula Campus
- East Liverpool Campus
- Geauga Campus
- Kent Campus
- Stark Campus

## Admission Requirements

Admission to a minor is open to students declared in a bachelor's degree, the A.A.B. or A.A.S. degree or the A.T.S. degree (not Individualized Program major). Students declared only in the A.A. or A.S. degree or the A.T.S. degree in Individualized Program may not declare a minor. Students may not pursue a minor and a major in the same discipline.

### Minor Requirements

Code	Title	Credit Hours
<b>Minor Requirements</b>		
SOC 12050	INTRODUCTION TO SOCIOLOGY (DIVD) (KSS)	3
SOC 22100	SOCIOLOGICAL ANALYSIS	3
Sociology (SOC) Electives		15
Minimum Total Credit Hours:		21

### Graduation Requirements

Minimum Minor GPA	Minimum Overall GPA
2.000	2.000

- Students must complete at least two upper-division (30000 or 40000 level) courses in the minor at Kent State on a graded basis (A-F).
- Minimum 12 credit hours must be upper-division coursework (30000 and 40000 level).
- Minimum 6 credit hours in the minor must be outside of the course requirements for any major or other minor the student is pursuing.
- Minimum 50 percent of the total credit hours for the minor must be taken at Kent State (in residence).

## Sociology - Ph.D.

### College of Arts and Sciences

Department of Sociology  
215 Merrill Hall  
Kent Campus  
330-672-2562  
[www.kent.edu/sociology](http://www.kent.edu/sociology)

## Description

The Ph.D. degree in Sociology prepares students for research and teaching careers in higher education and for research-based careers in both the public and private sectors. The program offers specializations in criminology and deviance, the sociology of health and mental health, social inequalities (race, class, gender), and social psychology.

### Fully Offered At:

- Kent Campus

## Admission Requirements

- Bachelor's or master's degree from an accredited college or university<sup>1</sup> for unconditional admission
- Minimum 3.000 GPA on a 4.000 point scale for unconditional admission
- Official transcripts(s)
- GRE scores (taken within the last five years)
- Goal statement (1-2 pages), describing current academic interests, research interests, long-range career goals and how admission to the Department of Sociology at Kent State University will facilitate the achievement of these goals
- Three letters of recommendation from current/former professors who can adequately evaluate the applicant's past work and potential
- English language proficiency - all international students must provide proof of English language proficiency (unless they meet specific exceptions) by earning one of the following:
  - Minimum 587 TOEFL PBT score (paper-based version)
  - Minimum 94 TOEFL IBT score (Internet-based version)
  - Minimum 82 MELAB score
  - Minimum 7.0 IELTS score
  - Minimum 65 PTE score
  - Minimum 120 Duolingo English Test score

Admission to the Ph.D. degree is limited to students whose records clearly indicate both scholarly and research potential to do doctoral-level work. For more information about graduate admissions, please visit the Graduate Studies admission website. For more information on international admission, visit the Office of Global Education's admission website.

<sup>1</sup> Applications for admission are accepted from those who will have a completed baccalaureate or master's degree upon starting the program. It is limited to students whose records clearly indicate both scholarly and research potential to do doctoral-level work.

## Program Learning Outcomes

Graduates of this program will be able to:

1. Demonstrate a practical understanding of sociological theory by using it to better understand social phenomena and human behavior, develop new theoretical arguments and pose and attempt to answer research questions.
2. Demonstrate a practical understanding of research methods in sociology, including both quantitative methods (e.g., survey, experimental) and qualitative methods (e.g., participant observation, content analysis).

3. Demonstrate a practical understanding of statistics in application to social research, including basic multivariate statistics (e.g., multiple regression) as well as advanced techniques (e.g., structural equation modeling).

Kent Campus  
www.kent.edu/cas

## Program Requirements

### Major Requirements

Code	Title	Credit Hours
<b>Major Requirements</b>		
SOC 72002	PROFESSIONAL AND ETHICAL ISSUES IN SOCIOLOGY <sup>1</sup>	0-3
SOC 72105	CONTEMPORARY SOCIOLOGICAL THOUGHT	3
SOC 72218	ADVANCED DATA ANALYSIS	4
SOC 72219	QUALITATIVE METHODS IN SOCIOLOGY	4
SOC 72894	COLLEGE TEACHING OF SOCIOLOGY	3
SOC 82199	DISSERTATION I <sup>2</sup>	30
Electives <sup>3</sup>		13-18
<b>Minimum Total Credit Hours for Post-Baccalaureate Students</b>		<b>90</b>
<b>Minimum Total Credit Hours for Post-Master's Students</b>		<b>65</b>

- <sup>1</sup> All students who entered the program with an M.A. degree earned at another institution must take SOC 72002. This course will not be waived.
- <sup>2</sup> Each doctoral candidate, upon admission to candidacy, must register for SOC 82199 for a total of 30 credit hours. It is expected that a doctoral candidate will continuously register for SOC 82199, and thereafter SOC 82299, each semester, until all requirements for the degree have been met. After completing the dissertation, students must successfully defend it in an oral examination. The exam will include an evaluation of theory, methodology, analysis and other topics relevant to the student's specialty areas.
- <sup>3</sup> Students who have already completed a master's degree in sociology are required to take a minimum of 13-18 elective credit hours (based on where they have earned their master's degree). Students who have not earned a master's degree in sociology are required to take a minimum of 26 elective credit hours. In the electives, 9 credit hours must be in a specialization area.  
No more than 6 credit hours of SOC 72896 and/or SOC 72898 may be applied toward the degree as elective credit. No more than 3 credit hours of 50000-level coursework may be applied toward the degree as elective credit. No more than 6 credit hours of graduate-level coursework outside the department may be applied toward the degree as elective credit. These limits include courses taken while earning a master's degree in sociology.  
Students are to meet with the coordinator to discuss what coursework meets the program requirements and the specialization area.

### Candidacy Requirement

To earn the Ph.D. degree, students must pass the doctoral candidacy examination. The examination will include an evaluation of theory, methodology, analysis and other topics relevant to the student's specialty area.

## Economics - B.A.

College of Arts and Sciences  
104 Bowman Hall

## Description

The Bachelor of Arts degree in Economics equips students with a variety of skills sought by employers, including conceptualizing and solving problems and locating, organizing and analyzing relevant data.

In their junior year, students learn microeconomic and macroeconomic theory and take an econometrics class to learn data analysis skills. Students then take a series of electives that deal with vital current topics relevant to many careers in which these theories and skills are applied, such as the U.S. financial and banking system, economic relations between the United States and foreign countries; government spending and taxation policies; and the U.S. health system and policy options.

In their senior year, students take a capstone course that utilizes and applies the theory, skills and institutional knowledge learned in the program.

In addition to the B.A. degree in the College of Arts and Sciences, a B.B.A. degree in Economics is offered in the College of Business Administration.

Economics students may apply early to either the M.B.A. degree or the Master of Arts in Economics degree and double count 9 credit hours of graduate courses toward both degree programs. See the Combined Bachelor's/Master's Degree Program policy in the University Catalog for more information.

### Fully Offered At:

- Kent Campus

## Admission Requirements

The university affirmatively strives to provide educational opportunities and access to students with varied backgrounds, those with special talents and adult students who graduated from high school three or more years ago.

**Freshman Students on the Kent Campus:** The freshman admission policy on the Kent Campus is selective. Admission decisions are based upon the following: cumulative grade point average, ACT and/or SAT scores, strength of high school college preparatory curriculum and grade trends. The Admissions Office at the Kent Campus may defer the admission of students who do not meet admissions criteria but who demonstrate areas of promise for successful college study. Deferred applicants may begin their college coursework at one of seven regional campuses of Kent State University. For more information on admissions, including additional requirements for some academic programs, visit the admissions website for new freshmen.

**Freshman Students on the Regional Campuses:** Kent State campuses at Ashtabula, East Liverpool, Geauga, Salem, Stark, Trumbull and Tuscarawas, as well as the Regional Academic Center in Twinsburg, have open enrollment admission for students who hold a high school diploma, GED or equivalent.

### English Language Proficiency Requirements for International Students:

All international students must provide proof of English language proficiency (unless they meet specific exceptions) by earning a minimum

525 TOEFL score (71 on the Internet-based version), minimum 75 MELAB score, minimum 6.0 IELTS score or minimum 48 PTE score, or by completing the ESL level 112 Intensive Program. For more information on international admission, visit the Office of Global Education's admission website.

**Transfer, Transitioning and Former Students:** For more information about admission criteria for transfer, transitioning and former students, please visit the admissions website.

## Program Learning Outcomes

Graduates of this program will be able to:

1. Conceptualize and analyze problems using economic concepts and reasoning.
2. Critically analyze alternative economic policy proposals.
3. Use analytic and quantitative techniques that are used extensively in economics to formulate and test hypothesis.

## University Requirements

All students in a bachelor's degree program at Kent State University must complete the following university requirements for graduation.

**NOTE:** University requirements may be fulfilled in this program by specific course requirements. Please see Program Requirements for details.

Destination Kent State: First Year Experience	1
Course is not required for students with 25 transfer credits, excluding College Credit Plus, or age 21+ at time of admission.	
Diversity Domestic/Global (DIVD/DIVG)	2 courses
Students must successfully complete one domestic and one global course, of which one must be from the Kent Core.	
Experiential Learning Requirement (ELR)	varies
Students must successfully complete one course or approved experience.	
Kent Core (see table below)	36-37
Writing-Intensive Course (WIC)	1 course
Students must earn a minimum C grade in the course.	
Upper-Division Requirement	39 (or 42)
Students must successfully complete 39 upper-division (numbered 30000 to 49999) credit hours to graduate. Students in a B.A. and/or B.S. degree in the College of Arts and Sciences must complete 42 upper-division credit hours.	
Total Credit Hour Requirement	120
Some bachelor's degrees require students to complete more than 120 credit hours.	

## Kent Core Requirements

Kent Core Composition (KCOMP)	6
Kent Core Mathematics and Critical Reasoning (KMCR)	3
Kent Core Humanities and Fine Arts (KHUM/KFA) (min one course each)	9
Kent Core Social Sciences (KSS) (must be from two disciplines)	6
Kent Core Basic Sciences (KBS/KLAB) (must include one laboratory)	6-7
Kent Core Additional (KADL)	6
<b>Total Credit Hours:</b>	<b>36-37</b>

## Program Requirements

### Major Requirements

Code	Title	Credit Hours
<b>Major Requirements (courses count in major GPA)</b>		
ECON 22060	PRINCIPLES OF MICROECONOMICS (KSS)	3
ECON 22061	PRINCIPLES OF MACROECONOMICS (KSS)	3
ECON 32040	INTERMEDIATE MICROECONOMIC THEORY AND APPLICATIONS (min C-)	3
ECON 32041	INTERMEDIATE MACROECONOMIC THEORY AND POLICY (min C-)	3
ECON 32050	APPLIED ECONOMETRICS I (ELR) (min C-)	3
ECON 42191	SENIOR SEMINAR IN ECONOMICS (WIC) (min C grade)	3
MATH 11010	ALGEBRA FOR CALCULUS (KMCR)	3
MATH 11012	INTUITIVE CALCULUS (KMCR)	3-5
or MATH 12002	ANALYTIC GEOMETRY AND CALCULUS I (KMCR)	
MGMT 24056	BUSINESS ANALYTICS I <sup>1</sup>	3
Economics (ECON) Upper-Division Electives (30000 or 40000 level) <sup>2</sup>		12
<b>Additional Requirements (courses do not count in major GPA)</b>		
UC 10097	DESTINATION KENT STATE: FIRST YEAR EXPERIENCE	1
Foreign Language (see Foreign Language College Requirement below)		14-16
College General Requirement (must be from Kent Core Basic Sciences) <sup>3</sup>		3
College General Requirement (must be from Kent Core Social Sciences) <sup>4</sup>		3
Kent Core Composition		6
Kent Core Humanities and Fine Arts (minimum one course from each)		9
Kent Core Social Sciences (must be from a discipline other than ECON)		3
Kent Core Basic Sciences (must include one laboratory)		6-7
General Electives (total credit hours depends on earning 120 credit hours, including 42 upper-division credit hours)		36
Minimum Total Credit Hours:		120

- 1 Students who have taken an equivalent course in introductory statistics, such as MATH 10041, or have an equivalent AP statistics exam score, may substitute for MGMT 24056.
- 2 Economics electives must be determined with students' faculty advisor. ECON 32070 and ECON 32082 do not count toward the major.
- 3 One additional course taken from the Kent Core Basic Science courses in the following Arts and Sciences disciplines: Anthropology (ANTH), Biological Sciences (BSCI), Chemistry (CHEM), Geography (GEOG), Geology (GEOL) or Physics (PHY). The course may not be from the student's major.
- 4 One additional course taken from the Kent Core Social Sciences courses in the following Arts and Sciences disciplines: Anthropology (ANTH), Geography (GEOG), Criminology and Justice Studies (CRIM), Peace and Conflict Studies (PACS), Political Science (POL), Psychology (PSYC) or Sociology (SOC). The course may not be from the student's major.

## Progression Requirements

- Minimum C- grade in ECON 32040, ECON 32041 and ECON 32050 prior to taking ECON 42191
- Minimum C grade in ECON 42191

## Graduation Requirements

Minimum Major GPA	Minimum Overall GPA
2.000	2.000

## Foreign Language College Requirement

Students pursuing the Bachelor of Arts degree in the College of Arts and Sciences must complete 14-16 credit hours of foreign language.<sup>1</sup>

To complete the requirement, students have the equivalent of Elementary I and II in any language, plus one of the following options:

1. Intermediate I and II of the same language<sup>2</sup>
2. Elementary I and II of a second language
3. Any combination of two courses from the following list:

- Intermediate I of the same language
- MCLS 10001 INTRODUCTION TO STRUCTURAL CONCEPTS FOR LANGUAGE STUDENTS
- MCLS 20091 VARIABLE CONTENT SEMINAR IN GLOBAL LITERACY: CASE STUDIES
- MCLS 21417 MULTICULTURALISM IN TODAY'S GERMANY (DIVG)
- MCLS 28404 THE LATIN AMERICAN EXPERIENCE (DIVG)

<sup>1</sup> All students with prior foreign language experience should take the foreign language placement test to determine the appropriate level at which to start. Some students may begin beyond the Elementary I level and will complete the requirement with fewer credit hours and fewer courses. This may be accomplished by (1) passing a course beyond Elementary I through Intermediate II level; (2) receiving credit through Credit by Exam (CBE), Advanced Placement (AP), International Baccalaureate (IB) or College Level Examination Program (CLEP); or (3) being designated a 'native speaker' of a non-English language (consult with the College of Arts and Sciences Advising Office for additional information). When students complete the requirement with fewer than 14 credit hours and four courses, they will complete remaining credit hours with general electives.

<sup>2</sup> Certain majors, concentrations and minors may require specific languages, limit the languages from which a student may choose or require coursework through Intermediate II. Students who plan to pursue graduate study may need particular language coursework.

## Roadmap

This roadmap is a recommended semester-by-semester plan of study for this major. However, courses designated as critical (!) must be completed in the semester listed to ensure a timely graduation.

Semester One		Credits
MATH 11010	ALGEBRA FOR CALCULUS (KMCR)	3
UC 10097	DESTINATION KENT STATE: FIRST YEAR EXPERIENCE	1
Foreign Language		4
Kent Core Requirement		3
Kent Core Requirement		3
Credit Hours		14

Semester Two		
ECON 22060	PRINCIPLES OF MICROECONOMICS (KSS)	3
MATH 11012	INTUITIVE CALCULUS (KMCR)	3-5
or	or ANALYTIC GEOMETRY AND CALCULUS I (KMCR)	
MATH 12002		
Foreign Language		4
Kent Core Requirement		3
Kent Core Requirement		3
Credit Hours		16

Semester Three		
ECON 22061	PRINCIPLES OF MACROECONOMICS (KSS)	3
Foreign Language		3
Kent Core Requirement		3
Kent Core Requirement		3
Kent Core Requirement		3
Credit Hours		15

Semester Four		
ECON 32040	INTERMEDIATE MICROECONOMIC THEORY AND APPLICATIONS	3
or	or INTERMEDIATE MACROECONOMIC THEORY AND POLICY	
ECON 32041		
MGMT 24056	BUSINESS ANALYTICS I	3
Foreign Language		3
Kent Core Requirement		3
Economics Upper-Division Elective		3
Credit Hours		15

Semester Five		
ECON 32040	INTERMEDIATE MICROECONOMIC THEORY AND APPLICATIONS	3
or	or INTERMEDIATE MACROECONOMIC THEORY AND POLICY	
ECON 32041		
or	or APPLIED ECONOMETRICS I (ELR)	
ECON 32050		
College General Requirement		3
College General Requirement		3
General Elective		6
Credit Hours		15

Semester Six		
! ECON 32040	INTERMEDIATE MICROECONOMIC THEORY AND APPLICATIONS	3
or	or INTERMEDIATE MACROECONOMIC THEORY AND POLICY	
ECON 32041		
or	or APPLIED ECONOMETRICS I (ELR)	
ECON 32050		
Economics Upper-Division Elective		3
General Electives		9
Credit Hours		15

Semester Seven		
Economics Upper-Division Electives		3
General Electives		12
Credit Hours		15

Semester Eight		
! ECON 42191	SENIOR SEMINAR IN ECONOMICS (WIC)	3
Economics Upper-Division Elective		3
General Electives		9
Credit Hours		15
Minimum Total Credit Hours:		120

# Materials Sciences - M.S.

College of Arts and Sciences



Liquid Crystal and Materials Science Building  
 Kent Campus  
 330-672-3899  
 CPIPgrad@kent.edu  
 www.kent.edu/cpip

*Program is pending approval from the Ohio Department of Higher Education.*

## Description

The Master of Science degree in Materials Science provides students with extensive scientific training, cutting-edge research opportunities and engineering skills necessary for a variety of careers in academy and in industry. Program faculty and students conduct research through Kent State's participating departments and the Advanced Materials and Liquid Crystal Institute. Such research includes liquid crystal synthesis and molecular design; properties of liquid crystals and related advanced materials; lyotropic liquid crystals and bio-related materials; opto-electronics; and nanoscience and nanotechnologies. These important research foci are inherently interdisciplinary.

### Fully Offered At:

- Kent Campus

## Admission Requirements

- Bachelor's degree from an accredited college or university for unconditional admission
- Minimum 3.000 undergraduate GPA on a 4.000 point scale for unconditional admission
- Official transcript(s)
- Goal statement
- Two letters of recommendation
- Submission of GRE scores (general and subject test in physics or chemistry) is not required, but strongly recommended
- English language proficiency - all international students must provide proof of English language proficiency (unless they meet specific exceptions) by earning one of the following:
  - Minimum 525 TOEFL score (paper-based version)
  - Minimum 71 TOEFL score (Internet-based version)
  - Minimum 74 MELAB score
  - Minimum 6.0 IELTS score
  - Minimum 50 PTE score
  - Minimum 100 Duolingo test score

Admission will be granted by examination of the student's background on an individual basis. Students from a variety of undergraduate majors—such as physics, chemistry, engineering and materials science—are invited to apply.

For more information about graduate admissions, please visit the Graduate Studies website. For more information on international admission, visit the Office of Global Education's admission website.

## Program Learning Outcomes

Graduates of this program will be able to:

1. Develop an advanced understanding of the fundamental science of soft materials and ability to apply acquired knowledge of physical and

chemical properties of advanced soft materials and devices such as liquid crystals, polymers, colloids and active matter.

2. Gain experience in presenting scientific data in research publications, articles, posters and oral presentations.
3. Apply acquired knowledge to the development of new soft materials, new theories and effects and advanced materials such as liquid crystal-based devices.

## Program Requirements

### Major Requirements

Code	Title	Credit Hours
<b>Major Requirements</b>		
MTSC 62242	CHARACTERIZATION OF SOFT MATTER	3
MTSC 63000	PHYSICS OF SOFT MATTER	3
MTSC 63015	CHEMISTRY OF SOFT MATTER	3
MTSC 63020	APPLICATIONS OF SOFT MATTER	3
Approved Electives, choose from the following:		12
BSCI 50158	MOLECULAR BIOLOGY	
BSCI 50220	BIOINFORMATICS	
BSCI 51120	BIOLOGICAL LIGHT MICROSCOPY	
CHEM 50352	INORGANIC MATERIALS CHEMISTRY	
CHEM 50451	ORGANIC MATERIALS CHEMISTRY	
CHEM 50478	SYNTHESIS OF ORGANIC LIQUID CRYSTALS	
CHEM 50559	NANOMATERIALS	
CHEM 50571	SURFACE CHEMISTRY	
CHEM 60254	BIOMEMBRANES	
CHEM 62691	SEMINAR: INDUSTRIAL CHEMISTRY	
MTSC 60498	RESEARCH	
MTSC 62241	STATISTICAL MECHANICS OF SOFT MATTER	
MTSC 62249	LABVIEW FOR DATA ACQUISITION AND INSTRUMENT CONTROL	
MTSC 62335	ADVANCED LIQUID CRYSTALLINE AND POLYMERIC MATERIALS	
MTSC 62450	LIQUID CRYSTAL OPTICS I: THEORY	
MTSC 62452	LIQUID CRYSTAL OPTICS II: OPTICAL SYSTEMS	
MTSC 62460	LIQUID CRYSTAL MATERIALS SCIENCE	
MTSC 62462	LIQUID CRYSTAL SCIENCE: PHYSICAL PROPERTIES	
MTSC 62640	LIQUID CRYSTAL, POLYMER AND COLLOID COMPOSITES	
MTSC 62643	ELECTRO-OPTICS OF LIQUID CRYSTALS: MODELING AND DEVICE DESIGN	
MTSC 62647	STRUCTURED FLUIDS	
MTSC 62650	COMPUTATIONAL MATERIALS SCIENCE	
MTSC 62651	NANOBIOTECHNOLOGY	
MTSC 63010	LYOTROPIC LIQUID CRYSTALS	
MTSC 63025	ACTIVE MATTER	
MTSC 63100	EMERGING DISPLAY TECHNOLOGIES	
MTSC 64491	SEMINAR: LIQUID CRYSTALS	
MTSC 64495	SPECIAL TOPICS IN CHEMICAL PHYSICS	
MTSC 65006	LIQUID CRYSTAL DEVICE PROTOTYPING	
MTSC 65008	LIQUID CRYSTAL DEVICE CONSTRUCTION	
MTSC 65032	SCIENTIFIC COMMUNICATION	
PHY 66403	ADVANCED CONDENSED MATTER PHYSICS	
PHY 68401	LIQUID CRYSTAL PHYSICS	
Additional courses with advisor approval		

**Culminating Requirement**

MTSC 60199	THESIS I <sup>1</sup>	6
or MTSC 65098	MASTER'S PROJECT: ENGINEERING APPLICATIONS OF LIQUID CRYSTALS	

Minimum Total Credit Hours: 30

<sup>1</sup> Candidates selecting to complete the thesis will present and interpret results of original research that must be defended before a committee of the materials science graduate faculty. Upon approval of the thesis topic, the student is required to register continuously for MTSC 60199 each semester for a total of 6 credit hours. A student who has completed the required 6 credit hours of MTSC 60199 but has not finished the thesis is expected, thereafter, to register continuously for MTSC 60299 each semester until all degree requirements are met. No more than 6 credit hours of MTSC 60199 may be counted toward completion of degree requirements. Credit hours earned in MTSC 60299 do not, under any circumstances, count toward the degree.

## Materials Sciences - Ph.D.

### College of Arts and Sciences

Liquid Crystal and Materials Science Building  
Kent Campus  
330-672-3899  
CPIPgrad@kent.edu  
www.kent.edu/cpip

*Program is pending approval from the Ohio Department of Higher Education.*

### Description

The Ph.D. degree in Materials Science provides students with extensive scientific training, cutting-edge research opportunities and engineering skills necessary for a variety of careers in academy and industry. Program faculty and students conduct research through Kent State's participating departments and the Advanced Materials and Liquid Crystal Institute. Such research includes liquid crystal synthesis and molecular design; properties of liquid crystals and related advanced materials; lyotropic liquid crystals and bio-related materials, opto-electronics; and nanoscience and nanotechnologies. These important research foci are inherently interdisciplinary.

### Fully Offered At:

- Kent Campus

### Admission Requirements

- Bachelor's degree or higher from an accredited college or university for unconditional admission
- Minimum 3.000 GPA on a 4.000 point scale for unconditional admission
- Official transcript(s)
- GRE scores (general and subject test in physics or chemistry) are not required, but strongly recommended
- Goal statement
- Two letters of recommendation
- English language proficiency - all international students must provide proof of English language proficiency (unless they meet specific exceptions) by earning one of the following:

- Minimum 525 TOEFL score (paper-base version)
- Minimum 71 TOEFL score (Internet-based version)
- Minimum 74 MELAB score
- Minimum 6.0 IELTS score
- Minimum 50 PTE score
- Minimum 100 Duolingo English Test score

Admission will be granted by examination of the student's background on an individual basis. Students from a variety of undergraduate majors —such as physics, chemistry, engineering and materials science—are invited to apply.

For more information about graduate admissions, please visit the Graduate Studies website. For more information on international admission, visit the Office of Global Education's admission website.

## Program Learning Outcomes

Graduates of this program will be able to:

1. Develop an advanced understanding of the fundamental science of liquid crystals and related advanced materials and ability to apply acquired knowledge of physical and chemical properties of soft materials and devices such as liquid crystals, polymers, colloids and active matter.
2. Gain experience in presenting scientific data in research publications, articles, posters and oral presentations.
3. Apply acquired knowledge to the discovery of new advanced materials and development of advanced materials-based devices and applications.

## Program Requirements

### Major Requirements

Code	Title	Credit Hours
<b>Major Requirements</b>		
MTSC 72242	CHARACTERIZATION OF SOFT MATTER	3
MTSC 73000	PHYSICS OF SOFT MATTER	3
MTSC 73015	CHEMISTRY OF SOFT MATTER	3
MTSC 73020	APPLICATIONS OF SOFT MATTER	3
MTSC 80199	DISSERTATION I <sup>1</sup>	30
Approved Electives, choose from the following:		18-48
BSCI 70158	MOLECULAR BIOLOGY	
BSCI 70220	BIOINFORMATICS	
BSCI 71120	BIOLOGICAL LIGHT MICROSCOPY	
CHEM 70352	INORGANIC MATERIALS CHEMISTRY	
CHEM 70451	ORGANIC MATERIALS CHEMISTRY	
CHEM 70478	SYNTHESIS OF ORGANIC LIQUID CRYSTALS	
CHEM 70559	NANOMATERIALS	
CHEM 70571	SURFACE CHEMISTRY	
CHEM 70254	BIOMEMBRANES	
MTSC 72241	STATISTICAL MECHANICS OF SOFT MATTER	
MTSC 72249	LABVIEW FOR DATA ACQUISITION AND INSTRUMENT CONTROL	
MTSC 72335	ADVANCED LIQUID CRYSTALLINE AND POLYMERIC MATERIALS	
MTSC 72450	LIQUID CRYSTAL OPTICS I: THEORY	
MTSC 72452	LIQUID CRYSTAL OPTICS II: OPTICAL SYSTEMS	
MTSC 72460	LIQUID CRYSTAL MATERIALS SCIENCE	

MTSC 72462	LIQUID CRYSTAL SCIENCE: PHYSICAL PROPERTIES
MTSC 72640	LIQUID CRYSTAL, POLYMER AND COLLOID COMPOSITES
MTSC 72643	ELECTRO-OPTICS OF LIQUID CRYSTALS: MODELING AND DEVICE DESIGN
MTSC 72647	STRUCTURED FLUIDES
MTSC 72650	COMPUTATIONAL MATERIALS SCIENCE
MTSC 72651	NANOBIOTECHNOLOGY
MTSC 73010	LYOTROPIC LIQUID CRYSTALS
MTSC 73025	ACTIVE MATTER
MTSC 73100	EMERGING DISPLAY TECHNOLOGIES
MTSC 74491	SEMINAR: LIQUID CRYSTALS
MTSC 74495	SPECIAL TOPICS IN CHEMICAL PHYSICS
MTSC 75006	LIQUID CRYSTAL DEVICE PROTOTYPING
MTSC 75008	LIQUID CRYSTAL DEVICE CONSTRUCTION
MTSC 75032	SCIENTIFIC COMMUNICATION
MTSC 80498	RESEARCH <sup>2</sup>
PHY 76403	ADVANCED CONDENSED MATTER PHYSICS
PHY 78401	LIQUID CRYSTAL PHYSICS
Additional courses with advisor approval	
<b>Minimum Total Credit Hours for Post-Baccalaureate Students</b>	<b>90</b>
<b>Minimum Total Credit Hours for Post-Master's Students</b>	<b>60</b>

- <sup>1</sup> Each doctoral candidate, upon admission to candidacy, must register for MTSC 80199 for a total of 30 credit hours. It is expected that a doctoral candidate will continuously register for Dissertation I, and thereafter MTSC 80299, each semester, until all requirements for the degree have been met. A prospectus of the dissertation research project is required for all Ph.D. candidates. The prospectus is prepared jointly with the student's dissertation advisor. The prospectus must be approved by the members of the student's dissertation committee. A dissertation presenting and interpreting results of original research is required for the Ph.D. degree. Following acceptance of the dissertation by the dissertation committee, the final degree requirement is the satisfactory completion of the final oral exam (defense of dissertation) in front of a committee of graduate materials science faculty and representatives from other departments in the College of Arts and Sciences.
- <sup>2</sup> Post-baccalaureate students may apply a maximum 15 credit hours of research toward the degree. Post-master's students may apply a maximum 9 credit hours of research toward the degree.

## Candidacy Requirement

In addition to satisfying the course work, the student must pass the materials science candidacy examination. The examination is divided into two parts, a written and an oral exam. The written exam is scheduled first followed by the oral exam. The exams will cover the core courses of the materials science program taken during the first year. A student who does not pass the candidacy exam the first time, may take it a second time. The student's first attempt at candidacy will take place in August, during the week before the start of the fall semester of the student's second year of study. The second attempt will take place in January, during the week before the start of the spring semester of the student's second year of study. A request for exception will be considered for medical reasons or for other unpredictable circumstances. Requests must be submitted in writing with supporting documentation prior to the test date and must be approved by the candidacy exam committee and by the director of

the materials science program. If the student fails the second attempt, they cannot continue towards the doctoral degree, but may complete the requirements for the Master's of Science degree.

## Pre-Dentistry Advising Program

### College of Arts and Sciences

104 Bowman Hall  
Kent Campus  
www.kent.edu/cas

## Description

The Pre-Dentistry Advising Program is a non-degree, pre-professional program that provides students with an opportunity to prepare for further dental school training after completing their undergraduate degree. Students take courses to prepare for the Dental Admissions Test (DAT) and coursework in dental school.

The College of Arts and Sciences offers advising non-degree programs for students who wish to pursue professional careers in a medical field, including medicine, osteopathy, dentistry, pharmacy and veterinary medicine. The curriculum in these pre-medical programs is designed to prepare students for advanced, professional study by providing a sound basis in biology and chemistry, physics and mathematics.

These advising programs meet the coursework requirements for admission to most medical schools, although admission requirements may differ per school. Students who wish to pursue a graduate medical program would be well advised to check carefully the admissions requirements of the professional schools they wish to enter. Students should also seek advice regularly from their faculty advisors.

### Fully Offered At:

- Kent Campus

## Admission Requirements

Students must be admitted to a bachelor's degree program in the College of Arts and Sciences to declare this non-degree advising program. Students who plan to pursue a bachelor's degree in biology or chemistry (both of which have their own pre-dentistry concentration), should not declare this program.

## Program Requirements

### Pre-Professional Requirements

Code	Title	Credit Hours
<b>Pre-Professional Requirements</b>		
BSCI 10120	BIOLOGICAL FOUNDATIONS (KBS) (KLAB)	4
BSCI 30140	CELL BIOLOGY	4
BSCI 30156	ELEMENTS OF GENETICS	3
BSCI 30171	GENERAL MICROBIOLOGY	4
BSCI 40430	ANIMAL PHYSIOLOGY	3
CHEM 10060	GENERAL CHEMISTRY I (KBS)	4
or CHEM 10970	HONORS GENERAL CHEMISTRY I (KBS)	
CHEM 10061	GENERAL CHEMISTRY II (KBS)	4
or CHEM 10971	HONORS GENERAL CHEMISTRY II (KBS)	

CHEM 10062	GENERAL CHEMISTRY I LABORATORY (KBS) (KLAB)	1
CHEM 10063	GENERAL CHEMISTRY II LABORATORY (KBS) (KLAB)	1
CHEM 30475	ORGANIC CHEMISTRY LABORATORY I (ELR)	1
CHEM 30476	ORGANIC CHEMISTRY LABORATORY II	1
MATH 12002	ANALYTIC GEOMETRY AND CALCULUS I (KMCR)	4-5
or MATH 12021	CALCULUS FOR LIFE SCIENCES	
MATH 12022	PROBABILITY AND STATISTICS FOR LIFE SCIENCES	3
or MATH 30011	BASIC PROBABILITY AND STATISTICS	
Organic Chemistry Elective, choose from the following:		6
CHEM 20481 & CHEM 20482	BASIC ORGANIC CHEMISTRY I and BASIC ORGANIC CHEMISTRY II	
CHEM 30481 & CHEM 30482	ORGANIC CHEMISTRY I and ORGANIC CHEMISTRY II	
Physics Elective, choose from the following:		10
PHY 13001 & PHY 13002 & PHY 13021 & PHY 13022	GENERAL COLLEGE PHYSICS I (KBS) and GENERAL COLLEGE PHYSICS II (KBS) and GENERAL COLLEGE PHYSICS LABORATORY I (KBS) (KLAB) and GENERAL COLLEGE PHYSICS LABORATORY II (KBS) (KLAB)	
PHY 23101 & PHY 23102	GENERAL UNIVERSITY PHYSICS I (KBS) (KLAB) and GENERAL UNIVERSITY PHYSICS II (KBS) (KLAB)	
Minimum Total Credit Hours:		53

## Pre-Professional Information

- Students should consult with a faculty pre-dentistry advisor each semester for assistance in choosing classes, the appropriate sequencing of classes, and to ensure entrance requirements for selected dental schools are being met.
- Students are encouraged, after consultation with a faculty pre-dentistry advisor to select from the following Kent Core and general elective courses to help prepare for a career in dentistry:

Code	Title	Credit Hours
COMM 15000	INTRODUCTION TO HUMAN COMMUNICATION (KADL)	3
ECON 22060	PRINCIPLES OF MICROECONOMICS (KSS)	3
ECON 42086	ECONOMICS OF HEALTH CARE	3
PHIL 21001	INTRODUCTION TO ETHICS (DIVG) (KHUM)	3
PSYC 11762	GENERAL PSYCHOLOGY (DIVD) (KSS)	3
PSYC 40111	ABNORMAL PSYCHOLOGY	3
PSYC 41363	BIOPSYCHOLOGY	3
SOC 12050	INTRODUCTION TO SOCIOLOGY (DIVD) (KSS)	3
SOC 42563	SOCIOLOGY OF HEALTH AND HEALTH CARE	3

## Pre-Law - Minor

### College of Arts and Sciences

104 Bowman Hall  
Kent Campus  
www.kent.edu/cas

## Description

The Pre-Law minor provides a background for the study of law through challenging coursework that reinforces and extends the liberal arts foundation gained through the Kent Core. It prepares students for advanced analytical and writing dexterity, and introduces them to the social and governmental structures that underlie the law.

No specific course of study is required for admission to law school. Most law schools, including all in Ohio, require a bachelor's degree for admission. The bachelor's degree may be from any discipline or college at Kent State University.

Law schools emphasize the value of reading comprehension, analytical skills and a good command of written English. While these skills can be obtained in various ways, a general liberal arts background is recommended. Courses in English literature, American history and government are considered essential. Many pre-law students choose a major in political science, history, sociology, psychology, economics or English. A Bachelor of Integrative Studies degree is suitable if carefully planned.

Students considering law as a career should seek individual advising from the pre-law advisors in the Department of Political Science or in the students' major department. A list of pre-law advisors is available in the college office. Consultation with a pre-law advisor is urged, regardless of the students' major, minor or college. The Department of Political Science can also supply information on LSAT registration, pre-law planning guides, information on law school admissions and financial aid information. The department sponsors a pre-law club. Opportunities also exist for students to participate in mock trial and moot court activities as well as legal internships.

## Fully Offered At:

- Kent Campus
- Stark Campus

## Admission Requirements

Admission to a minor is open to students declared in a bachelor's degree, the A.A.B. or A.A.S. degree or the A.T.S. degree (not Individualized Program major). Students declared only in the A.A. or A.S. degree or the A.T.S. degree in Individualized Program may not declare a minor. Students may not pursue a minor and a major in the same discipline.

## Minor Requirements

Code	Title	Credit Hours
<b>Minor Requirements</b>		
ENG 30064	ARGUMENTATIVE PROSE WRITING	3
PACS 11001	INTRODUCTION TO CONFLICT MANAGEMENT (DIVD) (KSS)	3
PHIL 11009	CRITICAL THINKING (KADL)	3
POL 30130	THE JUDICIAL PROCESS	3
Social Science Electives, choose from the following:		
POL 30100	AMERICAN POLITICAL THEORY	
POL 40182	CONSTITUTIONAL LAW: GOVERNMENTAL STRUCTURES AND FUNCTIONS	
POL 40183	CONSTITUTIONAL LAW: CIVIL RIGHTS AND LIBERTIES (DIVD)	
PSYC 30111	FORENSIC PSYCHOLOGY	

SOC 32762	DEVIANT BEHAVIOR	
History, Philosophy and Justice Electives, choose from the following:		3
CRIM 26704	ISSUES IN LAW AND SOCIETY (KSS)	
CRIM 33300	DEVELOPMENT OF JUSTICE IN AMERICA	
HIST 41071	AMERICAN SOCIAL AND INTELLECTUAL HISTORY, 1876-PRESENT (DIVD)	
PHIL 31035	PHILOSOPHY AND JUSTICE (DIVD)	
PHIL 41025	PHILOSOPHY OF LAW	
Conflict Management and Legal Practice Electives, choose from the following:		3
COMM 45807	HIGH IMPACT PROFESSIONAL SPEAKING	
PACS 34040		
PACS 41010	RECONCILIATION VERSUS REVENGE: TRANSITIONAL JUSTICE (DIVG) (WIC)	
PACS 48080	MEDIATION: THEORY AND TRAINING	
POL 40168	MOOT COURT I	
POL 40171	MOOT COURT II	
Minimum Total Credit Hours:		21

## Graduation Requirements

Minimum Minor GPA	Minimum Overall GPA
2.000	2.000

- Students must complete at least two upper-division (30000 or 40000 level) courses in the minor at Kent State on a graded basis (A-F).
- Maximum three courses counted toward the students' major may be counted toward the pre-law minor.
- Minimum 6 credit hours in the minor must be upper-division coursework (30000 and 40000 level).
- Minimum 6 credit hours in the minor must be outside of the course requirements for any major or other minor the student is pursuing.
- Minimum 50 percent of the total credit hours for the minor must be taken at Kent State (in residence).

## Program Notes

- It is recommended that students pursuing the Pre-Law minor give strong consideration to the following courses in fulfillment of the Kent Core and/or college general requirements:
  - In the humanities and fine arts category: COMM 15000, COMM 26000, HIST 12070, HIST 12071, PAS 23001, PAS 23002
  - In the social sciences category: CRIM 12000, ECON 22061, POL 10100
- Students are strongly encouraged to consider prerequisites of advanced courses in the Pre-Law minor as they select their Kent Core courses and/or college general requirements.

# Pre-Medicine/Pre-Osteopathy Advising Program

## College of Arts and Sciences

104 Bowman Hall  
Kent Campus  
www.kent.edu/cas

## Description

The Pre-Medicine/Pre-Osteopathy Advising Program is a non-degree, pre-professional program that provides students with an opportunity to prepare for further medical training after completing their undergraduate degree. Students take courses that prepare them for the Medical College Admissions Test (MCAT) and coursework in medical school.

The College of Arts and Sciences offers advising non-degree programs for students who wish to pursue professional careers in a medical field, including medicine, osteopathy, dentistry, pharmacy and veterinary medicine. The curriculum in these pre-medical programs is designed to prepare students for advanced, professional study by providing a sound basis in biology and chemistry, physics and mathematics.

These advising programs meet the coursework requirements for admission to most medical schools, although admission requirements may differ per school. Students who wish to pursue a graduate medical program would be well advised to check carefully the admissions requirements of the professional schools they wish to enter. Students should also seek advice regularly from their faculty advisors.

## Fully Offered At:

- Kent Campus

## Admission Requirements

Students must be admitted to a bachelor's degree program in the College of Arts and Sciences to declare this non-degree advising program. Students who plan to pursue a bachelor's degree in biology, chemistry or physics (all of which have their own pre-medicine/pre-osteopathy concentration), should not declare this program.

## Program Requirements

### Pre-Professional Requirements

Code	Title	Credit Hours
<b>Pre-Professional Requirements</b>		
BSCI 10120	BIOLOGICAL FOUNDATIONS (KBS) (KLAB)	4
BSCI 30140	CELL BIOLOGY	4
BSCI 30156	ELEMENTS OF GENETICS	3
BSCI 30171	GENERAL MICROBIOLOGY	4
BSCI 30130	HUMAN PHYSIOLOGY	3
or BSCI 40430	ANIMAL PHYSIOLOGY	
CHEM 10060	GENERAL CHEMISTRY I (KBS)	4
or CHEM 10970	HONORS GENERAL CHEMISTRY I (KBS)	
CHEM 10061	GENERAL CHEMISTRY II (KBS)	4
or CHEM 10971	HONORS GENERAL CHEMISTRY II (KBS)	
CHEM 10062	GENERAL CHEMISTRY I LABORATORY (KBS) (KLAB)	1
CHEM 10063	GENERAL CHEMISTRY II LABORATORY (KBS) (KLAB)	1
CHEM 30284	INTRODUCTORY BIOLOGICAL CHEMISTRY	4
or CHEM 40245	BIOCHEMICAL FOUNDATIONS OF MEDICINE	
CHEM 30475	ORGANIC CHEMISTRY LABORATORY I (ELR)	1
CHEM 30476	ORGANIC CHEMISTRY LABORATORY II	1
MATH 12002	ANALYTIC GEOMETRY AND CALCULUS I (KMCR)	4-5



or MATH 12021	CALCULUS FOR LIFE SCIENCES	
MATH 12022	PROBABILITY AND STATISTICS FOR LIFE SCIENCES	3
or MATH 30011	BASIC PROBABILITY AND STATISTICS	
PSYC 11762	GENERAL PSYCHOLOGY (DIVD) (KSS)	3
SOC 12050	INTRODUCTION TO SOCIOLOGY (DIVD) (KSS)	3
Organic Chemistry Electives, choose from the following:		6
CHEM 20481 & CHEM 20482	BASIC ORGANIC CHEMISTRY I and BASIC ORGANIC CHEMISTRY II	
CHEM 30481 & CHEM 30482	ORGANIC CHEMISTRY I and ORGANIC CHEMISTRY II	
Physics Electives, choose from the following:		10
PHY 13001 & PHY 13002 & PHY 13021 & PHY 13022	GENERAL COLLEGE PHYSICS I (KBS) and GENERAL COLLEGE PHYSICS II (KBS) and GENERAL COLLEGE PHYSICS LABORATORY I (KBS) (KLAB) and GENERAL COLLEGE PHYSICS LABORATORY II (KBS) (KLAB)	
PHY 23101 & PHY 23102	GENERAL UNIVERSITY PHYSICS I (KBS) (KLAB) and GENERAL UNIVERSITY PHYSICS II (KBS) (KLAB)	
Minimum Total Credit Hours:		63

## Pre-Professional Information

- Students should consult with a faculty pre-medicine/pre-osteopathy advisor each semester for assistance in choosing classes, the appropriate sequencing of classes and to ensure entrance requirements for selected medical schools are being met.
- While individual medical or osteopathy schools may require a variety of additional courses, BSCI 30518 is recommended to strengthen a student's preparation for the MCAT.
- Students are encouraged, after consultation with a faculty pre-medicine and pre-osteopathy advisor, to select from the following Kent Core and general elective courses to help prepare for a career in medicine:

Code	Title	Credit Hours
COMM 15000	INTRODUCTION TO HUMAN COMMUNICATION (KADL)	3
ECON 22060	PRINCIPLES OF MICROECONOMICS (KSS)	3
ECON 42086	ECONOMICS OF HEALTH CARE	3
PHIL 21001	INTRODUCTION TO ETHICS (DIVG) (KHUM)	3
PSYC 40111	ABNORMAL PSYCHOLOGY	3
PSYC 41363	BIOPSYCHOLOGY	3
SOC 42563	SOCIOLOGY OF HEALTH AND HEALTH CARE	3

## Pre-Pharmacy Advising Program

### College of Arts and Sciences

104 Bowman Hall  
Kent Campus  
[www.kent.edu/cas](http://www.kent.edu/cas)

## Description

The Pre-Pharmacy Advising Program is a non-degree, pre-professional program that provides students with an opportunity to prepare for further training in pharmacy schools or colleges. Students work closely with

their pre-pharmacy faculty advisor to ensure they meet the admissions requirements for the pharmacy school or college of their choice.

The program's curriculum aligns with admission criteria for the the Doctor of Pharmacy degree offered by the Northeast Ohio Medical University (NEOMED). As an alternate, students interested in applying to the NEOMED can satisfy all pre-pharmacy requirements by completing the B.S. degree in Chemistry with the Biochemistry concentration. In this degree program, students either complete four years of study at Kent State, or (with careful planning) complete three years of study at Kent State and satisfy the remaining requirements of their B.S. degree with coursework completed at NEOMED.

The College of Arts and Sciences offers advising non-degree programs for students who wish to pursue professional careers in a medical field, including medicine, osteopathy, dentistry, pharmacy and veterinary medicine. The curriculum in these pre-medical programs is designed to prepare students for advanced, professional study by providing a sound basis in biology and chemistry, physics and mathematics.

These advising programs meet the coursework requirements for admission to most medical schools, although admission requirements may differ per school. Students who wish to pursue a graduate medical program would be well advised to check carefully the admissions requirements of the professional schools they wish to enter. Students should also seek advice regularly from their faculty advisors.

## Fully Offered At:

- Kent Campus

## Admission Requirements

Students must be admitted to a bachelor's degree program in the College of Arts and Sciences to declare this non-degree advising program.

## Program Requirements

### Pre-Professional Requirements

Code	Title	Credit Hours
<b>Pre-Professional Requirements</b>		
BSCI 10120	BIOLOGICAL FOUNDATIONS (KBS) (KLAB)	4
BSCI 30140	CELL BIOLOGY	4
CHEM 10060	GENERAL CHEMISTRY I (KBS)	4
or CHEM 10970	HONORS GENERAL CHEMISTRY I (KBS)	
CHEM 10061	GENERAL CHEMISTRY II (KBS)	4
or CHEM 10971	HONORS GENERAL CHEMISTRY II (KBS)	
CHEM 10062	GENERAL CHEMISTRY I LABORATORY (KBS) (KLAB)	1
CHEM 10063	GENERAL CHEMISTRY II LABORATORY (KBS) (KLAB)	1
CHEM 30475	ORGANIC CHEMISTRY LABORATORY I (ELR)	1
CHEM 30476	ORGANIC CHEMISTRY LABORATORY II	1
COMM 15000	INTRODUCTION TO HUMAN COMMUNICATION (KADL)	3
ECON 22060	PRINCIPLES OF MICROECONOMICS (KSS) <sup>1</sup>	3
ENG 11011	COLLEGE WRITING I (KCMP)	3
or HONR 10197	FRESHMAN HONORS COLLOQUIUM I (KCMP)	
ENG 21011	COLLEGE WRITING II (KCMP)	3
or HONR 10297	FRESHMAN HONORS COLLOQUIUM II (KCMP)	

MATH 12002	ANALYTIC GEOMETRY AND CALCULUS I (KMCR) <sup>1</sup>	4-5
or MATH 12021	CALCULUS FOR LIFE SCIENCES	
MATH 12022	PROBABILITY AND STATISTICS FOR LIFE SCIENCES <sup>1</sup>	3
or MATH 30011	BASIC PROBABILITY AND STATISTICS	
PHIL 21001	INTRODUCTION TO ETHICS (DIVG) (KHUM)	3
PSYC 11762	GENERAL PSYCHOLOGY (DIVD) (KSS)	3
SOC 12050	INTRODUCTION TO SOCIOLOGY (DIVD) (KSS)	3
Biological Chemistry Electives, choose from the following: <sup>1</sup>		7
CHEM 30284 & CHEM 40248	INTRODUCTORY BIOLOGICAL CHEMISTRY and ADVANCED BIOLOGICAL CHEMISTRY	
CHEM 40245 & CHEM 40248	BIOCHEMICAL FOUNDATIONS OF MEDICINE and ADVANCED BIOLOGICAL CHEMISTRY	
Organic Chemistry Electives, choose from the following:		6
CHEM 20481 & CHEM 20482	BASIC ORGANIC CHEMISTRY I and BASIC ORGANIC CHEMISTRY II	
CHEM 30481 & CHEM 30482	ORGANIC CHEMISTRY I and ORGANIC CHEMISTRY II	
Physics Electives, choose one of the following:		10
PHY 13001 & PHY 13002 & PHY 13021 & PHY 13022	GENERAL COLLEGE PHYSICS I (KBS) and GENERAL COLLEGE PHYSICS II (KBS) and GENERAL COLLEGE PHYSICS LABORATORY I (KBS) (KLAB) and GENERAL COLLEGE PHYSICS LABORATORY II (KBS) (KLAB)	
PHY 23101 & PHY 23102	GENERAL UNIVERSITY PHYSICS I (KBS) (KLAB) and GENERAL UNIVERSITY PHYSICS II (KBS) (KLAB)	

Minimum Total Credit Hours: 71

<sup>1</sup> These economics, mathematics and biological chemistry courses are required prerequisites for admission to the pharmacy program at NEOMED and are recommended for other pharmacy programs.

## Pre-Professional Information

- It is imperative that students meet with the pre-pharmacy faculty advisor immediately upon entering Kent State University. This allows students to most efficiently meet the requirements for admission to a number of pharmacy schools. These schools typically require coursework totaling 60-62 credit hours, which can be completed in two years. However, the coursework may vary based on the requirements of different pharmacy schools.
- To better prepare for admission to pharmacy programs, additional courses are recommended:

Code	Title	Credit Hours
BSCI 30130	HUMAN PHYSIOLOGY	3
BSCI 30171	GENERAL MICROBIOLOGY	4
BSCI 30518	VERTEBRATE ANATOMY	4
ECON 22061	PRINCIPLES OF MACROECONOMICS (KSS)	3

## Pre-Veterinary Medicine Advising Program

### College of Arts and Sciences

104 Bowman Hall  
Kent Campus  
[www.kent.edu/cas](http://www.kent.edu/cas)

## Description

The Pre-Veterinary Medicine Advising Program is a non-degree, pre-professional program that provides students an opportunity to prepare for further training in veterinary medicine after completing their undergraduate degree. Students take courses that prepare them for coursework in veterinary medicine school and either the Medical College Admissions Test (MCAT) or the Graduation Record Examination (GRE), depending on the institution.

The College of Arts and Sciences offers advising non-degree programs for students who wish to pursue professional careers in a medical field, including medicine, osteopathy, dentistry, pharmacy and veterinary medicine. The curriculum in these pre-medical programs is designed to prepare students for advanced, professional study by providing a sound basis in biology and chemistry, physics and mathematics.

These advising programs meet the coursework requirements for admission to most medical schools, although admission requirements may differ per school. Students who wish to pursue a graduate medical program would be well advised to check carefully the admissions requirements of the professional schools they wish to enter. Students should also seek advice regularly from their faculty advisors.

## Fully Offered At:

- Kent Campus

## Admission Requirements

Students must be admitted to a bachelor's degree program in the College of Arts and Sciences to declare this non-degree advising program. Admissions requirements for veterinary schools can be fulfilled in the B.S. degree in Zoology.

## Program Requirements

### Pre-Professional Requirements

Code	Title	Credit Hours
<b>Pre-Professional Requirements</b>		
BSCI 10110	BIOLOGICAL DIVERSITY (KBS) (KLAB)	4
BSCI 10120	BIOLOGICAL FOUNDATIONS (KBS) (KLAB)	4
BSCI 30140	CELL BIOLOGY	4
BSCI 30156	ELEMENTS OF GENETICS	3
BSCI 30171	GENERAL MICROBIOLOGY	4
CHEM 10060	GENERAL CHEMISTRY I (KBS)	4
CHEM 10061	GENERAL CHEMISTRY II (KBS)	4
CHEM 10062	GENERAL CHEMISTRY I LABORATORY (KBS) (KLAB)	1
CHEM 10063	GENERAL CHEMISTRY II LABORATORY (KBS) (KLAB)	1
CHEM 30284	INTRODUCTORY BIOLOGICAL CHEMISTRY	4
CHEM 30481	ORGANIC CHEMISTRY I <sup>1</sup>	3
CHEM 30482	ORGANIC CHEMISTRY II	3
ENG 11011	COLLEGE WRITING I (KCMP) <sup>2</sup>	3
MATH 11010	ALGEBRA FOR CALCULUS (KMCR) <sup>3</sup>	3
MATH 11022	TRIGONOMETRY (KMCR)	3
MATH 30011	BASIC PROBABILITY AND STATISTICS	3
PHY 13001	GENERAL COLLEGE PHYSICS I (KBS)	4

PHY 13002	GENERAL COLLEGE PHYSICS II (KBS)	4
PHY 13021	GENERAL COLLEGE PHYSICS LABORATORY I (KBS) (KLAB)	1
PHY 13022	GENERAL COLLEGE PHYSICS LABORATORY II (KBS) (KLAB)	1
Biology Upper-Division Electives (BSCI 30000 or 40000 level) <sup>4</sup>		7
Minimum Total Credit Hours:		68

- <sup>1</sup> The Ohio State University College of Veterinary Medicine recommends an organic chemistry laboratory, but it is not required. However, organic chemistry laboratory course are required by other veterinary schools.
- <sup>2</sup> The Ohio State University College of Veterinary Medicine requires one semester of writing/composition. Other veterinary schools require two semesters; ENG 21011 is recommended.
- <sup>3</sup> Additional mathematics courses are recommended, but not required.
- <sup>4</sup> Students may choose any upper-division BSCI courses to fulfill this requirement. The following courses are recommended: BSCI 30518, BSCI 30519, BSCI 40143, BSCI 40174, BSCI 40430, BSCI 40433, BSCI 40515, BSCI 40556, BSCI 40581.

## Pre-Professional Information

- In addition to the courses listed above, courses in art, economics, history, music, literature, communication studies, psychology and/or sociology are recommended to meet veterinary school prerequisites.

## School of Biomedical Sciences

**College of Arts and Sciences**  
 School of Biomedical Sciences  
 Cunningham Hall  
 Kent Campus  
 330-672-2263  
[www.kent.edu/biomedical](http://www.kent.edu/biomedical)

## Graduate Programs

- Biomedical Sciences - Cellular and Molecular Biology - M.S.
- Biomedical Sciences - Cellular and Molecular Biology - Ph.D.
- Biomedical Sciences - Human Evolutionary Biology - Ph.D.
- Biomedical Sciences - Neurosciences - M.S.
- Biomedical Sciences - Neurosciences - Ph.D.
- Biomedical Sciences - Pharmacology - M.S.
- Biomedical Sciences - Pharmacology - Ph.D.
- Biomedical Sciences - Physiology Interdisciplinary - M.S.
- Biomedical Sciences - Physiology Interdisciplinary - Ph.D.

## Biomedical Sciences (BMS)

### BMS 40196 INDIVIDUAL INVESTIGATION IN BIOMEDICAL SCIENCES (ELR) 1-3 Credit Hours

(May be repeated for up to 6 credit hours) Research study under the direction of a BMS faculty mentor. Students majoring in biology (BSCI), biotechnology (BTEC), chemistry (CHEM), integrated life sciences (ILS) and physics (PHY) majors are eligible to enroll in this course, but must have 18 credit hours in their major completed.

**Prerequisite:** Minimum overall 2.750 GPA; and departmental and faculty mentor approvals required.

**Schedule Type:** Individual Investigation

**Contact Hours:** 3-9 other

**Grade Mode:** Standard Letter

**Attributes:** Experiential Learning Requirement

### BMS 50701 CLINICAL NEUROANATOMY 3 Credit Hours

(Slashed with BMS 70701)(Cross-listed with PSYC 43001, PSYC 53001 and PSYC 73001) Course examines the anatomical organization of the human brain, emphasizing functional aspects of various neural systems, neuroimaging and topics of clinical relevance. Students must have a conceptual understanding of central nervous system organization and memorization of specific neural structures and pathways, as well as knowledge of the impact of structure and systems dysfunction.

**Prerequisite:** Graduate standing and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

### BMS 50702 CURRENT TECHNIQUES IN BEHAVIORAL NEUROSCIENCE 3 Credit Hours

(Slashed with BMS 70702)(Cross-listed with PSYC 43002, PSYC 53002 and PSYC 73002) Course details current and advanced techniques used in behavioral neuroscience research. Emphasis is placed on understanding the theory behind each technique, and its use in understanding the neural mechanisms of behavior. Detailed protocols for each technique are also covered.

**Prerequisite:** Graduate standing and special approval from instructor.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

### BMS 50703 NEURAL MECHANISMS OF LEARNING AND MEMORY 3 Credit Hours

(Slashed with BMS 70703)(Cross-listed with PSYC 43003, PSYC 53003 and PSYC 73003) Course examines the neural and molecular mechanisms underlying learning and memory formation. Covers cellular mechanisms of learning, including long-term potentiation and basic electrophysiology in invertebrate and mammalian preps. Transcriptional and post-translational modifications required for learning and memory formation, genomic signaling and protein synthesis. Also covers structural changes of neurons associated with memory formation, and the different behavioral methods for studying memory.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**BMS 60120 LABORATORY TECHNIQUES IN BIOMEDICAL SCIENCES 2 Credit Hours**

(Repeatable once for credit) Minimum of two laboratory rotations per semester by arrangement with individual faculty members.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Research

**Contact Hours:** 2 other

**Grade Mode:** Satisfactory/Unsatisfactory

**BMS 60196 INDIVIDUAL INVESTIGATION 1-3 Credit Hours**

(Repeatable for a maximum of 6 credit hours) (Cross-listed with BMS 70196) Directed investigation under supervision of faculty member in biomedical sciences and with prior approval.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Individual Investigation

**Contact Hours:** 1-3 other

**Grade Mode:** Standard Letter-IP

**BMS 60198 RESEARCH 1-15 Credit Hours**

(Repeatable for credit) Research for master's level graduate students. Credits earned may be applied toward degree requirements if department approves.

**Prerequisite:** Graduate standing; and special approval of adviser.

**Schedule Type:** Research

**Contact Hours:** 1-15 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**BMS 60199 THESIS I 2-6 Credit Hours**

Thesis students must register for a minimum of 6 hours, 2 to 6 hours in a single semester distributed over several semesters if desired.

**Prerequisite:** Graduate standing; and special approval of adviser.

**Schedule Type:** Masters Thesis

**Contact Hours:** 2-6 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**BMS 60220 HUMAN MICROSCOPIC ANATOMY 5 Credit Hours**

(Slashed with BMS 70220) Morphological basis for normal and disturbed functions; structure-function relationships in human microscopic anatomy. Lectures, special laboratory and learning techniques using human tissues.

**Prerequisite:** BSCI 50517 or special approval of instructor; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 5 lecture

**Grade Mode:** Standard Letter

**BMS 60251 THEORY AND PRACTICE OF CLONING AND GENETIC ENGINEERING 2 Credit Hours**

(Slashed with BMS 70251) Recent advances in the development and understanding of genetic engineering, genomic DNA organization and gene therapy will be discussed.

**Prerequisite:** BSCI 50158 and CHEM 50247 or BMS 60268; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**BMS 60291 SEMINAR IN CELLULAR AND MOLECULAR BIOLOGY 1 Credit Hour**

(Repeatable for credit) (Cross-listed with BMS 70291) Credits may be applied toward degree if department approves.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Seminar

**Contact Hours:** 1 other

**Grade Mode:** Satisfactory/Unsatisfactory

**BMS 60295 SPECIAL TOPICS IN CELLULAR AND MOLECULAR BIOLOGY 1-5 Credit Hours**

(Repeatable for credit) (Slashed with BMS 70295) Study of subject or problem of current importance. Content dependent upon student requirements and on recent developments in field. Sections may be standard letter or satisfactory/unsatisfactory (S/U) graded.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 1-5 lecture

**Grade Mode:** Standard Letter

**BMS 60299 THESIS II 2 Credit Hours**

Thesis students must continue registration each semester until all degree requirements are met.

**Prerequisite:** 6 hours of BMS 60199; and graduate standing.

**Schedule Type:** Masters Thesis

**Contact Hours:** 2 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**BMS 60440 CELLULAR AND MOLECULAR SIGNALING 3 Credit Hours**

(Cross-listed with BSCI 60440 and BSCI 70440 and BMS 70440) The relevant and current topics associated with cellular signaling is covered. Topics include receptor pharmacology, classes, and regulation, transcription factors, cell cycle signaling, and cell-cell communication.

**Prerequisite:** BSCI 40143 or BSCI 50143 or BSCI 70143; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**BMS 60441 MEDICAL PHYSIOLOGY 5 Credit Hours**

(Slashed with BMS 70441) Investigation of how the integration of biophysics, biochemistry and structure induces organ function in the cardiovascular, renal, respiratory, endocrine and gastrointestinal systems. Limited discussion of how pathologies alter normal organ function.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 5 lecture

**Grade Mode:** Standard Letter

**BMS 60450 MEDICAL PHYSIOLOGY II 3 Credit Hours**

(Cross-listed with BMS 70450) Biophysical and biochemical concepts of integrative organ system physiology in the human: renal, gastrointestinal and endocrine physiology.

**Prerequisite:** BSCI 40430; and graduate standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**BMS 60462 NEUROBIOLOGY: SYSTEMS AND BEHAVIOR 4 Credit Hours**

(Slashed with BMS 70462; Cross-listed with BSCI 60462 and BSCI 80462). Provides broad coverage of the parts of the central nervous systems and how they integrate sensory information, drive motor function and regulate behavior.

**Prerequisite:** BMS 60729 or BMS 70729; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 4 lecture

**Grade Mode:** Standard Letter



**BMS 60465 MEDICAL NEUROSCIENCE 6 Credit Hours**

(Slashed with BMS 70465) Detailed examination of human neuroanatomy and nervous system function.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 5 lecture, 3 lab

**Grade Mode:** Standard Letter

**BMS 60491 SEMINAR IN MEDICAL PHYSIOLOGY 1 Credit Hour**

(Repeatable for credit) (Cross-listed with BMS 70491) Credits may be applied toward degree if department approves.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Seminar

**Contact Hours:** 1 other

**Grade Mode:** Satisfactory/Unsatisfactory

**BMS 60495 SPECIAL TOPICS IN PHYSIOLOGY 1-5 Credit Hours**

(Repeatable for credit) (Slashed with BMS 70495) Study of subject or problem of current importance. Content dependent upon student requirements and on recent developments in field. Sections may be standard letter or satisfactory/unsatisfactory (S/U) graded.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 1-5 lecture

**Grade Mode:** Standard Letter

**BMS 60501 INTRODUCTION TO PHARMACOLOGY 1 Credit Hour**

(Slashed with BMS 70501) Satisfactory/Unsatisfactory (S/U) graded.

Basic aspects of pharmacology. Intended to provide a general understanding of fundamental concepts in pharmacology and opportunities for students to read and present peer-reviewed manuscripts covering introductory pharmacological concepts.

**Prerequisite:** Graduate standing.

**Schedule Type:** Seminar

**Contact Hours:** 1 other

**Grade Mode:** Satisfactory/Unsatisfactory

**BMS 60502 MOLECULAR PHARMACOLOGY 4 Credit Hours**

(Slashed with BMS 70502) General principles of pharmacology including metabolism, action, interactions, side effects, toxicity and therapeutic use of select drug topics. Focus is placed on the molecular and cellular targets of drug action.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 4 lecture

**Grade Mode:** Standard Letter

**BMS 60503 PHARMACOLOGY JOURNAL REVIEW 1 Credit Hour**

(Repeatable maximum four times) (Slashed with BMS 70503) Satisfactory/Unsatisfactory (S/U) graded. Review and discussion of advanced pharmacology journal articles. Students will present and critique articles from peer-viewed publications and actively participate in discussions. Background in physiology and biochemistry required.

**Prerequisite:** Graduate standing.

**Schedule Type:** Seminar

**Contact Hours:** 1 other

**Grade Mode:** Satisfactory/Unsatisfactory

**BMS 60504 CHEMOTHERAPY AND TOXICOLOGY 2 Credit Hours**

(Slashed with BMS 70504) Specialized topics in chemotherapy of microbial and neoplastic diseases as well as principles of toxicology.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**BMS 60505 DRUG DISCOVERY AND CLINICAL PHARMACOLOGY 2 Credit Hours**

(Slashed with BMS 70505) Basic concepts underlying drug discovery and clinical pharmacology including principles of pharmacokinetics, metabolism, pharmacogenomics and drug design.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**BMS 60506 HERBALS AND SUPPLEMENTS 2 Credit Hours**

(Slashed with BMS 70506) Provides an understanding of the basic scientific, therapeutic and pharmacological principles underlying the use of medicinal plants, herbal medications, natural products, vitamins, minerals and supplements.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**BMS 60550 MEDICAL PHARMACOLOGY I 3 Credit Hours**

(Cross-listed with BMS 70550) General principles of pharmacology including metabolism, action, interactions, side effects, toxicity and therapeutic use of drugs.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**BMS 60551 MEDICAL PHARMACOLOGY II 3 Credit Hours**

(Slashed with BMS 70551) Continuation of BMS 60550.

**Prerequisite:** BMS 60550; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**BMS 60591 SEMINAR IN PHARMACOLOGY 1 Credit Hour**

(Repeatable for credit) (Cross-listed with BMS 70591) Credits may be applied toward degree if department approves. Repeated registration permitted.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Seminar

**Contact Hours:** 1 other

**Grade Mode:** Satisfactory/Unsatisfactory

**BMS 60595 SPECIAL TOPICS IN PHARMACOLOGY 1-5 Credit Hours**

(Repeatable for credit) (Slashed with BMS 70595) Study of subject or problem of current importance. Content dependent upon student requirements and on recent developments in field. Sections may be standard letter or satisfactory/unsatisfactory (S/U) graded.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 1-5 lecture

**Grade Mode:** Standard Letter

**BMS 60596 INDIVIDUAL INVESTIGATION IN PHARMACOLOGY 1-3 Credit Hours**

(Repeatable for credit) (Cross-listed with BMS 70596) Experience with various laboratory techniques and procedures used in pharmacological research with application to experimental designs.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Individual Investigation

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter-IP



**BMS 60729 CELLULAR AND MOLECULAR NEUROSCIENCE 4 Credit Hours**

(Slashed with BMS 70729) The relation of aspects of the neurosciences to the fundamental properties of nervous tissue, establishing a firm base in experimental neurobiology.

**Prerequisite:** Graduate standing; and special approval of instructor.

**Schedule Type:** Lecture

**Contact Hours:** 4 lecture

**Grade Mode:** Standard Letter

**BMS 60751 CURRENT RESEARCH IN AUDITORY NEUROBIOLOGY 1 Credit Hour**

(Slashed with BMS 70751) (Repeatable for a maximum of four credit hours) Presentation-based by faculty in the Auditory Neuroscience Group. Topics will vary each semester. Each class presentation will highlight recent advances in auditory neurobiology, cover relevant background, and involve discussion of methodology, experimental design, and interpretive issues related to the research. Students will prepare a presentation on a topic chosen in conjunction with one of the faculty members. Assessment is based on presentation quality and active participation throughout the semester.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Seminar

**Contact Hours:** 1 lecture

**Grade Mode:** Satisfactory/Unsatisfactory

**BMS 60791 SEMINAR IN NEUROBIOLOGY 1 Credit Hour**

(Repeatable for credit) (Cross-listed with BMS 70791) Credits may be applied toward degree if department approves.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Seminar

**Contact Hours:** 1 other

**Grade Mode:** Satisfactory/Unsatisfactory

**BMS 60795 SPECIAL TOPICS IN NEUROBIOLOGY 1-5 Credit Hours**

(Repeatable for credit) (Slashed with BMS 70795) Study of problems of current importance. Content dependent on student requirements and on developments in field. Sections may be standard letter or satisfactory/unsatisfactory (S/U) graded.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 1-5 lecture

**Grade Mode:** Standard Letter

**BMS 61000 RESPONSIBLE CONDUCT OF RESEARCH 1 Credit Hour**

(Slashed with BMS 71000; Cross-listed with PHIL 61000) Introduction to professional and ethical conduct of research. Topics include codes and laws governing research, identification of scientific misconduct, plagiarism, authorship and intellectual properties, ethical animal and human research.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 1 lecture

**Grade Mode:** Standard Letter

**BMS 61001 INTRODUCTION TO BIOMEDICAL SCIENCES 1 Credit Hour**

(Slashed with BMS 71001) Seminar for all students in Biomedical Sciences. Repeat registration permitted.

**Prerequisite:** Graduate Standing in the School of Biomedical Sciences; Biological Anthropology, Biomedical mathematics, Cellular and Molecular Biology, Neurosciences, Pharmacology, Physiology Interdisciplinary.

**Schedule Type:** Seminar

**Contact Hours:** 1 lecture

**Grade Mode:** Satisfactory/Unsatisfactory

**BMS 68610 HUMAN GROSS ANATOMY I 4 Credit Hours**

(Cross-listed with BMS 78610) An intensive survey of human macromorphology. Lecture two hours per week. Laboratory six hours per week.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 4 lecture

**Grade Mode:** Standard Letter

**BMS 68611 HUMAN GROSS ANATOMY II 3 Credit Hours**

(Slashed with BMS 78611) An intensive survey of human macromorphology; a 10 week course which continues BMS 6/78610. Lecture two hours per week. Laboratory six hours per week.

**Prerequisite:** BMS 68610; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**BMS 70120 LABORATORY TECHNIQUES IN BIOMEDICAL SCIENCES 2 Credit Hours**

(Repeatable once for credit) (Cross-listed with BMS 60120) Minimum of two laboratory rotations per semester by arrangement with individual faculty members. May be repeated once.

**Prerequisite:** Doctoral standing; and special approval.

**Schedule Type:** Research

**Contact Hours:** 2 other

**Grade Mode:** Satisfactory/Unsatisfactory

**BMS 70196 INDIVIDUAL INVESTIGATION 1-3 Credit Hours**

(Repeatable for credit) (Cross-listed with BMS 60196) Directed investigation under supervision of faculty member in biomedical sciences and with prior approval.

**Prerequisite:** Doctoral standing; and special approval.

**Schedule Type:** Individual Investigation

**Contact Hours:** 1-3 other

**Grade Mode:** Standard Letter-IP

**BMS 70220 HUMAN MICROSCOPIC ANATOMY 5 Credit Hours**

(Slashed with BMS 60220) Morphological basis for normal and disturbed functions; structure-function relationships in human microscopic anatomy. Lectures, special laboratory and learning techniques using human tissues.

**Prerequisite:** BSCI 50517 or special approval of instructor; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 5 lecture

**Grade Mode:** Standard Letter

**BMS 70251 THEORY AND PRACTICE OF CLONING AND GENETIC ENGINEERING 2 Credit Hours**

(Slashed with BMS 60251) Recent advances in the development and understanding of genetic engineering, genomic DNA organization and gene therapy will be discussed.

**Prerequisite:** BSCI 50158 and CHEM 50247 or BMS 60268; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**BMS 70291 SEMINAR IN CELLULAR AND MOLECULAR BIOLOGY 1 Credit Hour**

(Repeatable for credit) (Cross-listed with BMS 60291) Credits may be applied toward degree if department approves.

**Prerequisite:** Doctoral standing; and special approval.

**Schedule Type:** Seminar

**Contact Hours:** 1 other

**Grade Mode:** Satisfactory/Unsatisfactory

**BMS 70295 SPECIAL TOPICS IN CELLULAR AND MOLECULAR BIOLOGY 1-5 Credit Hours**

(Repeatable maximum ten times for credit) (Slashed with BMS 60295) Study of subject or problem of current importance. Content dependent upon student requirements and on recent developments in field.

**Prerequisite:** Doctoral standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 1-5 lecture

**Grade Mode:** Standard Letter

**BMS 70440 CELLULAR AND MOLECULAR SIGNALING 3 Credit Hours**

(Cross-listed with BSCI 60440 and BSCI 70440 and BMS 60440) The relevant and current topics associated with cellular signaling will be covered. Topics include receptor pharmacology, classes and regulation, transcription factors, cell cycle signaling and cell-cell communication.

**Prerequisite:** BSCI 40143 or BSCI 50143 or BSCI 70143; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**BMS 70441 MEDICAL PHYSIOLOGY 5 Credit Hours**

(Slashed with BMS 60441) Investigation of how the integration of biophysics, biochemistry and structure induces organ function in the cardiovascular, renal, respiratory, endocrine and gastrointestinal systems. Limited discussion of how pathologies alter normal organ function.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 5 lecture

**Grade Mode:** Standard Letter

**BMS 70450 MEDICAL PHYSIOLOGY II 3 Credit Hours**

(Cross-listed with BMS 60450) Biophysical and biochemical concepts of integrative organ system physiology in the human: renal, gastrointestinal and endocrine physiology.

**Prerequisite:** BSCI 40430; and one year college physics and college chemistry (including organic); and doctoral standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**BMS 70462 NEUROBIOLOGY: SYSTEMS AND BEHAVIOR 4 Credit Hours**

(Slashed with BMS 60462; Cross-listed with BSCI 60462 and BSCI 80462) Provides broad coverage of the parts of the central nervous systems and how they integrate sensory information, drive motor function and regulate behavior.

**Prerequisite:** BMS 60729 or BMS 70729; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 4 lecture

**Grade Mode:** Standard Letter

**BMS 70465 MEDICAL NEUROSCIENCE 6 Credit Hours**

(Slashed with BMS 60465) Detailed examination of human neuroanatomy and nervous system function.

**Prerequisite:** Doctoral standing; and special approval.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 5 lecture, 3 lab

**Grade Mode:** Standard Letter

**BMS 70491 SEMINAR IN MEDICAL PHYSIOLOGY 1 Credit Hour**

(Repeatable for credit) (Cross-listed with BMS 60491) Credits may be applied toward degree if department approves.

**Prerequisite:** Doctoral standing; and special approval.

**Schedule Type:** Seminar

**Contact Hours:** 1 other

**Grade Mode:** Satisfactory/Unsatisfactory

**BMS 70495 SPECIAL TOPICS IN PHYSIOLOGY 1-5 Credit Hours**

(Repeatable for credit) (Slashed with BMS 60495) Study of subject or problem of current importance. Content dependent upon student requirements and on recent developments in field. Sections may be standard letter or satisfactory/unsatisfactory (S/U) graded.

**Prerequisite:** Doctoral standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 1-5 lecture

**Grade Mode:** Standard Letter

**BMS 70501 INTRODUCTION TO PHARMACOLOGY 1 Credit Hour**

(Slashed with BMS 60501) Satisfactory/Unsatisfactory (S/U) graded.

Basic aspects of pharmacology. Intended to provide a general understanding of fundamental concepts in pharmacology and

opportunities for students to read and present peer-reviewed manuscripts covering introductory pharmacological concepts.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Seminar

**Contact Hours:** 1 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**BMS 70502 MOLECULAR PHARMACOLOGY 4 Credit Hours**

(Slashed with BMS 60502) General principles of pharmacology including metabolism, action, interactions, side effects, toxicity and therapeutic use of select drug topics. Focus is placed on the molecular and cellular targets of drug action.

**Prerequisite:** Doctoral standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 4 lecture

**Grade Mode:** Standard Letter

**BMS 70503 PHARMACOLOGY JOURNAL REVIEW 1 Credit Hour**

(Repeatable maximum four times) (Slashed with BMS 60503) Review and discussion of advanced pharmacology journal articles. Students will present and critique articles from peer-viewed publications and actively participate in discussions. Background in physiology and biochemistry required. Satisfactory/Unsatisfactory (S/U) graded.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Seminar

**Contact Hours:** 1 other

**Grade Mode:** Satisfactory/Unsatisfactory

**BMS 70504 CHEMOTHERAPY AND TOXICOLOGY 2 Credit Hours**

(Slashed with BMS 60504) Specialized topics in chemotherapy of microbial and neoplastic diseases as well as principles of toxicology.

**Prerequisite:** Doctoral standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**BMS 70505 DRUG DISCOVERY AND CLINICAL PHARMACOLOGY 2 Credit Hours**

(Slashed with BMS 60505) Basic concepts underlying drug discovery and clinical pharmacology including principles of pharmacokinetics, metabolism, pharmacogenomics and drug design.

**Prerequisite:** Doctoral standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**BMS 70506 HERBALS AND SUPPLEMENTS 2 Credit Hours**

(Slashed with BMS 60506) Provides an understanding of the basic scientific, therapeutic and pharmacological principles underlying the use of medicinal plants, herbal medications, natural products, vitamins, minerals and supplements.

**Prerequisite:** Doctoral standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**BMS 70550 MEDICAL PHARMACOLOGY I 3 Credit Hours**

(Cross-listed with BMS 60550) General principles of pharmacology including metabolism, action, interactions, side effects, toxicity and therapeutic use of drugs.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**BMS 70551 MEDICAL PHARMACOLOGY II 3 Credit Hours**

(Slashed with BMS 60551) Continuation of BMS 70550.

**Prerequisite:** BMS 70550; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**BMS 70591 SEMINAR IN PHARMACOLOGY 1 Credit Hour**

(Repeatable for credit) (Cross-listed with BMS 60591) Credits may be applied toward degree if department approves.

**Prerequisite:** Doctoral standing; and special approval.

**Schedule Type:** Seminar

**Contact Hours:** 1 other

**Grade Mode:** Satisfactory/Unsatisfactory

**BMS 70595 SPECIAL TOPICS IN PHARMACOLOGY 1-5 Credit Hours**

(Repeatable for credit) (Slashed with BMS 60595) Study of subject or problem of current importance. Content dependent upon student requirements and on recent developments in field. Sections may be standard letter or satisfactory/unsatisfactory (S/U) graded.

**Prerequisite:** Doctoral standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 1-5 lecture

**Grade Mode:** Standard Letter

**BMS 70596 INDIVIDUAL INVESTIGATION IN PHARMACOLOGY 1-3 Credit Hours**

(Repeatable for credit) (Cross-listed with BMS 60596) Experience with various laboratory techniques and procedures used in pharmacological research with application to experimental designs.

**Prerequisite:** Doctoral standing; and special approval.

**Schedule Type:** Individual Investigation

**Contact Hours:** 1-3 other

**Grade Mode:** Standard Letter-IP

**BMS 70701 CLINICAL NEUROANATOMY 3 Credit Hours**

(Slashed with BMS 50701)(Cross-listed with PSYC 43001, PSYC 53001 and PSYC 73001). Course examines the anatomical organization of the human brain, emphasizing functional aspects of various neural systems, neuroimaging and topics of clinical relevance. Students must have a conceptual understanding of central nervous system organization and memorization of specific neural structures and pathways, as well as knowledge of the impact of structure and systems dysfunction.

**Prerequisite:** Doctoral standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**BMS 70702 CURRENT TECHNIQUES IN BEHAVIORAL NEUROSCIENCE 3 Credit Hours**

(Slashed with BMS 50702)(Cross-listed with PSYC 43002, PSYC 53002 and PSYC 73002) Course details current and advanced techniques used in behavioral neuroscience research. Emphasis is placed on understanding the theory behind each technique, and its use in understanding the neural mechanisms of behavior. Detailed protocols for each technique are also covered.

**Prerequisite:** Doctoral standing and special approval from instructor.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**BMS 70703 NEURAL MECHANISMS OF LEARNING AND MEMORY 3 Credit Hours**

(Slashed with BMS 50703)(Cross-listed with PSYC 43003, PSYC 53003 and PSYC 73003) Course examines the neural and molecular mechanisms underlying learning and memory formation. Covers cellular mechanisms of learning, including long-term potentiation and basic electrophysiology in invertebrate and mammalian preps. Transcriptional and post-translational modifications required for learning and memory formation, genomic signaling and protein synthesis. Also covers structural changes of neurons associated with memory formation, and the different behavioral methods for studying memory.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**BMS 70729 CELLULAR AND MOLECULAR NEUROSCIENCE 4 Credit Hours**

(Slashed with BMS 60729) The relation of aspects of the neurosciences to the fundamental properties of nervous tissue, establishing a firm base in experimental neurobiology.

**Prerequisite:** Doctoral standing; and special approval of instructor.

**Schedule Type:** Lecture

**Contact Hours:** 4 lecture

**Grade Mode:** Standard Letter

**BMS 70751 CURRENT RESEARCH IN AUDITORY NEUROBIOLOGY 1 Credit Hour**

(Slashed with BMS 60751) (Repeatable for a maximum of four credit hours) Presentation-based by faculty in the Auditory Neuroscience Group. Topics will vary each semester. Each class presentation will highlight recent advances in auditory neurobiology, cover relevant background, and involve discussion of methodology, experimental design, and interpretive issues related to the research. Students will prepare a presentation on a topic chosen in conjunction with one of the faculty members. Assessment is based on presentation quality and active participation throughout the semester.

**Prerequisite:** Doctoral standing; and special approval.

**Schedule Type:** Seminar

**Contact Hours:** 1 lecture

**Grade Mode:** Satisfactory/Unsatisfactory

**BMS 70791 SEMINAR IN NEUROBIOLOGY 1 Credit Hour**

(Repeatable for credit) (Cross-listed with BMS 60791) Credits may be applied toward degree if department approves.

**Prerequisite:** Doctoral standing; and special approval.

**Schedule Type:** Seminar

**Contact Hours:** 1 other

**Grade Mode:** Satisfactory/Unsatisfactory

**BMS 70795 SPECIAL TOPICS IN NEUROBIOLOGY 1-5 Credit Hours**

(Repeatable for credit) (Slashed with BMS 60795) Study of problems of current importance. Content dependent on student requirements and on developments in field. Sections may be standard letter or satisfactory/unsatisfactory (S/U) graded

**Prerequisite:** Doctoral standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 1-5 lecture

**Grade Mode:** Standard Letter

**BMS 71000 RESPONSIBLE CONDUCT OF RESEARCH 1 Credit Hour**

(Slashed with BMS 61000; Cross-listed with PHIL 61000) Introduction to professional and ethical conduct of research. Topics include codes and laws governing research, identification of scientific misconduct, plagiarism, authorship and intellectual properties, ethical animal and human research.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 1 lecture

**Grade Mode:** Standard Letter

**BMS 71001 INTRODUCTION TO BIOMEDICAL SCIENCES 1 Credit Hour**

(Slashed with BMS 61001) Introductory seminar for new students in Biomedical Sciences graduate programs. This seminar will expose students to the different faculty research programs available in the program.

**Prerequisite:** Doctoral standing in Biomedical Sciences.

**Schedule Type:** Seminar

**Contact Hours:** 1 lecture

**Grade Mode:** Satisfactory/Unsatisfactory

**BMS 78610 HUMAN GROSS ANATOMY I 4 Credit Hours**

(Cross-listed with BMS 68610) An intensive survey of human macromorphology. Lecture two hours per week. Laboratory six hours per week.

**Prerequisite:** Doctoral standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 4 lecture

**Grade Mode:** Standard Letter

**BMS 78611 HUMAN GROSS ANATOMY II 3 Credit Hours**

(Cross-listed with BMS 68611) An intensive survey of human macromorphology; a 10 week course which continues BMS 6/78610. Lecture two hours per week. Laboratory six hours per week.

**Prerequisite:** BMS 6/78610; and Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**BMS 78630 PRINCIPLES OF BIOLOGICAL ANTHROPOLOGY 3 Credit Hours**

(Slashed with ANTH 68630) Graduate-level introduction to the field of biological anthropology. Topics include genetics, human variation, fossil and modern primates and early man.

**Prerequisite:** Doctoral standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**BMS 78637 BIOANTHROPOLOGICAL DATA ANALYSIS I 5 Credit Hours**

(Cross-listed with ANTH 68637) Examination of methods of univariate and bivariate experimental design. This survey emphasizes tests of hypothesis and estimation techniques with both classical and nonparametric procedures.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 5 lecture

**Grade Mode:** Standard Letter

**BMS 78638 BIOANTHROPOLOGICAL DATA ANALYSIS II 3 Credit Hours**

(Cross-listed with ANTH 68638) This survey of multivariate analysis in anthropology includes one-sample data exploration, multiple sample problems and regression methods. It also includes computer applications.

**Prerequisite:** BMS 78637; and Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**BMS 78691 SEMINAR IN BIOLOGICAL ANTHROPOLOGY 1 Credit Hour**

(Repeatable for credit) Credits may be applied toward degree if department approves.

**Prerequisite:** Doctoral standing; and special approval.

**Schedule Type:** Seminar

**Contact Hours:** 1 other

**Grade Mode:** Satisfactory/Unsatisfactory

**BMS 78692 FIELD WORK IN PALEOANTHROPOLOGY 1-5 Credit Hours**

(Repeatable for credit) Excavation and/or field survey of miocene and/or plio-pleistocene hominid localities.

**Prerequisite:** Doctoral standing; and special approval.

**Schedule Type:** Field Experience

**Contact Hours:** 1-5 other

**Grade Mode:** Standard Letter



**BMS 78695 SPECIAL TOPICS IN BIOLOGICAL ANTHROPOLOGY 1-5 Credit Hours**

(Repeatable for credit) Study of subject or problem of current importance. Content dependent upon student requirements and on recent developments in field. Sections may be standard letter or satisfactory/unsatisfactory (S/U) graded.

**Prerequisite:** Doctoral standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 1-5 lecture

**Grade Mode:** Standard Letter

**BMS 80198 RESEARCH 1-15 Credit Hours**

(Repeatable for credit) Research for doctoral students who have not yet passed candidacy examination.

**Prerequisite:** Doctoral standing; and special approval of adviser.

**Schedule Type:** Research

**Contact Hours:** 1-15 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**BMS 80199 DISSERTATION I 15 Credit Hours**

(Repeatable for credit) Doctoral dissertation, for which registration in at least two semesters is required, first of which will be semester in which dissertation work is begun and continuing until the completion of 30 hours. Students must successfully complete the doctoral exam before taking this course.

**Prerequisite:** Doctoral standing; and special approval.

**Schedule Type:** Dissertation

**Contact Hours:** 15 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**BMS 80299 DISSERTATION II 15 Credit Hours**

(Repeatable for credit) Continuing registration of doctoral students who have completed the initial 30 hours of dissertation and continuing until all degree requirements are met.

**Prerequisite:** 30 hours of BMS 80199; and Doctoral standing.

**Schedule Type:** Dissertation

**Contact Hours:** 15 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

## Biomedical Sciences - Cellular and Molecular Biology - M.S.

### College of Arts and Sciences

School of Biomedical Sciences

Cunningham Hall

Kent Campus

330-672-2263

[www.kent.edu/biomedical](http://www.kent.edu/biomedical)

## Description

The Master of Science degree in Biomedical Sciences–Cellular and Molecular Biology prepares creative research scientists for careers in teaching, research and biotechnology. Graduates possess an in-depth comprehension of experimental design at the cellular and molecular levels of biological organization, as well as competency in current techniques in the discipline. Major research emphases include signal transduction, biochemistry and pathobiology, gene regulation, cell systems biology, cell and tissue ultrastructure, membrane structure and function, molecular aspects of neurobiology and endocrinology, genetics and metabolism of microorganisms, virology and immunology

and enzymology with an emphasis on protein dynamics and folding, as well as cytochrome P-450s.

Program faculty are drawn from several departments at Kent State University, University of Akron, Cleveland Clinic Foundation and Northeast Ohio Medical University (NEOMED). Additional participant faculty are located at area clinical facilities and hospitals. This multi-departmental and inter-institutional structure gives master's student access to the talents of a broadly diverse research faculty, as well as significant research facilities and resources.

The Master of Science degree in Biomedical Sciences–Cellular and Molecular Biology is offered in consortium with Cleveland Clinic, Northeast Ohio Medical University and the University of Akron

The Biomedical Sciences–Cellular and Molecular Biology major comprises the following concentrations:

- Cellular Biology and Structure
- Molecular Biology and Genetics

## FULLY OFFERED AT:

- Kent Campus

## Admission Requirements

- Bachelor's degree from an accredited college or university for unconditional admission
- Minimum 3.000 undergraduate GPA on a 4.000 point scale for unconditional admission
- Academic preparation adequate to perform graduate work in the desired field (typically two years of chemistry, one year of mathematics, one year of physics and courses in anthropology, biology and psychology)
- Official transcript(s)
- GRE scores
- Goal statement
- Three letters of recommendation
- English language proficiency - all international students must provide proof of English language proficiency (unless they meet specific exceptions) by earning one of the following:
  - Minimum 600 TOEFL PBT score (paper-based version)
  - Minimum 100 TOEFL IBT score (Internet-based version)
  - Minimum 85 MELAB score
  - Minimum 7.0 IELTS score
  - Minimum 68 PTE score
  - Minimum 120 Duolingo English Test score

Admission with deficiencies may be accorded, but these must be made up during the first two years of graduate study. For more information about graduate admissions, please visit the Graduate Studies admission website. For more information on international admission, visit the Office of Global Education's admission website.

## Program Learning Outcomes

Graduates of this program will be able to:

1. Publish their research in peer-reviewed journals.
2. Demonstrate the ability to teach undergraduate students.



3. Seek employment after graduation in fields that reflect their area of training.

## Program Requirements

### Major requirements

Code	Title	Credit Hours
<b>Major Requirements</b>		
Methodology and Elective Courses (Chemistry, Biological Sciences, Biomedical Sciences)		15
BMS 60199	THESIS I	6
<b>Concentrations</b>		
Choose from the following:		11
Cellular Biology and Structure		
Molecular Biology and Genetics		
Minimum Total Credit Hours:		32

### Cellular Biology and Structure Concentration Requirements

Code	Title	Credit Hours
<b>Concentration Requirements</b>		
BMS 60220	HUMAN MICROSCOPIC ANATOMY	5
BSCI 50142	BIOENERGETICS	3
BSCI 50143	EUKARYOTIC CELL BIOLOGY	3
Minimum Total Credit Hours:		11

### Molecular Biology and Genetics Concentration Requirements

Code	Title	Credit Hours
<b>Concentration Requirements</b>		
BSCI 50143	EUKARYOTIC CELL BIOLOGY	3
or BSCI 50158	MOLECULAR BIOLOGY	
or CHEM 60254	BIOMEMBRANES	
Methodology and Elective Courses (Chemistry, Biological Sciences, Biomedical Sciences)		8-9
Minimum Total Credit Hours:		11

## Biomedical Sciences - Cellular and Molecular Biology - Ph.D.

### College of Arts and Sciences

School of Biomedical Sciences  
Cunningham Hall  
Kent Campus  
330-672-2263  
[www.kent.edu/biomedical](http://www.kent.edu/biomedical)

## Description

The Ph.D. degree in Biomedical Sciences–Cellular and Molecular Biology prepares creative research scientists for careers in teaching, research and biotechnology. Graduates possess an in-depth comprehension of experimental design at the cellular and molecular levels of biological organization, as well as competency in current techniques in the

discipline. Major research emphases include signal transduction, biochemistry and pathobiology, gene regulation, cell systems biology, cell and tissue ultrastructure, membrane structure and function, molecular aspects of neurobiology and endocrinology, genetics and metabolism of microorganisms, virology and immunology and enzymology with an emphasis on protein dynamics and folding, as well as cytochrome P-450s.

Program faculty are drawn from several departments at Kent State University, University of Akron, Cleveland Clinic Foundation and Northeast Ohio Medical University (NEOMED). Additional participant faculty are located at area clinical facilities and hospitals. This multi-departmental and inter-institutional structure gives doctoral candidates access to the talents of a broadly diverse research faculty as well as significant research facilities and resources.

The Ph.D. degree in Biomedical Sciences–Cellular and Molecular Biology is offered in consortium with Cleveland Clinic, Northeast Ohio Medical University and the University of Akron

The Biomedical Sciences–Cellular and Molecular Biology major comprises the following concentrations:

- Cellular Biology and Structure
- Molecular Biology and Genetics

### FULLY OFFERED AT:

- Kent Campus

## Admission Requirements

- Master of Science degree from an accredited college or university<sup>1</sup> for unconditional admission
- Minimum 3.000 GPA on a 4.000 point scale for unconditional admission
- Official transcript(s)
- GRE scores
- Goal statement
- Three letters of recommendation
- English language proficiency - all international students must provide proof of English language proficiency (unless they meet specific exceptions) by earning one of the following:
  - Minimum 600 TOEFL PBT score (paper-based version)
  - Minimum 100 TOEFL IBT score (Internet-based version)
  - Minimum 85 MELAB score
  - Minimum 7.0 IELTS score
  - Minimum 68 PTE score
  - Minimum 120 Duolingo English Test score

For more information about graduate admissions, please visit the Graduate Studies admission website. For more information on international admission, visit the Office of Global Education's admission website.

<sup>1</sup> Students without a master's degree may be permitted direct matriculation to the doctoral program following completion of no less than 20 credit hours of graduate coursework (including the core) and with the recommendation of the student's guidance committee and the school director. Normally, a student is admitted to the master's program prior to doctoral work, but a student holding only a baccalaureate may be admitted directly into the doctoral program in exceptional cases.

## Program Learning Outcomes

Graduates of this program will be able to:

1. Publish their research in peer-reviewed journals.
2. Demonstrate the ability to teach undergraduate students.
3. Seek employment after graduation in fields that reflect their area of training.

## Program Requirements

### Major requirements

Code	Title	Credit Hours
<b>Major Requirements</b>		
Methodology and Elective Courses (Chemistry, Biological Sciences, Biomedical Sciences)		19
BMS 80199	DISSERTATION I <sup>1</sup>	30
<b>Concentrations</b>		
Choose from the following:		11
Cellular Biology and Structure		
Molecular Biology and Genetics		
Minimum Total Credit Hours:		60

### Cellular Biology and Structure Concentration Requirements

Code	Title	Credit Hours
<b>Concentration Requirements</b>		
BMS 70220	HUMAN MICROSCOPIC ANATOMY	5
BSCI 70142	BIOENERGETICS	3
BSCI 70143	EUKARYOTIC CELL BIOLOGY	3
Minimum Total Credit Hours:		11

### Molecular Biology and Genetics Concentration Requirements

Code	Title	Credit Hours
<b>Concentration Requirements</b>		
BSCI 70143	EUKARYOTIC CELL BIOLOGY	3
or BSCI 70158	MOLECULAR BIOLOGY	
or CHEM 70254	BIOMEMBRANES	
Methodology and Elective Courses (Chemistry, Biological Sciences, Biomedical Sciences)		8-9
Minimum Total Credit Hours:		11

<sup>1</sup> Each doctoral candidate, upon admission to candidacy, must register for BMS 80199 for a total of 30 hours. It is expected that a doctoral candidate will continuously register for Dissertation I, and thereafter BMS 80299, each semester, until all requirements for the degree have been met. As soon after completion of the candidacy examination as possible, the dissertation committee will be established, consisting of the guidance committee and an outside discipline member—a graduate faculty member from another department at Kent State University or another program committee of the School of Biomedical Sciences. The student will submit to this committee her/his prospectus for the dissertation. The format of the prospectus will parallel that utilized for NIH grant proposals (without biographical, budget and facilities information). The dissertation committee may elect to examine the candidate on the proposal, may accept it as submitted, or may reject it with specific reasons and recommendations for reformulation.

## Biomedical Sciences - Human Evolutionary Biology - Ph.D.

### College of Arts and Sciences

Department of Biomedical Sciences

Cunningham Hall

Kent Campus

330-672-2263

[www.kent.edu/biomedical](http://www.kent.edu/biomedical)

## Description

The Ph.D. degree in Biomedical Sciences – Human Evolutionary Biology emphasizes a biological approach to research problems focusing on human and non-human anthropology. The program focuses on human anatomy and neuroanatomy, developmental biology, evolutionary genetics, mammalian physiology, paleontology, and experimental archaeology. Many graduates use their training and teaching experience to enter anthropology or corporate teaching positions. Most graduates are also prepared to teach both human anatomy and other cognate fields (neuroanatomy, cell biology, physiology, genetics) in demand at most medical schools.

Faculty in the program are drawn from the departments of Anthropology and the Biological Sciences at Kent State and the Department of Anatomy and Neurobiology at the Northeast Ohio Medical University (NEOMED). This inter-departmental and inter-institutional structure provides significant resources to the doctoral candidates, including the Hammon-Todd human and primate skeletal collection, state-of-the-art laboratories for neuroanatomy, anatomy, genetics, paleontology, biomechanics, and experimental archaeology. Additional resources are available to students through the Cleveland Museum of National History, the Cleveland Metroparks zoo, and other local, national, and international collaborative relationships.

Candidates for the Ph.D. are expected to engage, to the extent possible, in other activities that benefit their professional development. The teaching of laboratory and lecture course, as appropriate is considered valuable and each student should have this experience during their graduate career, this includes those students on non-teaching scholarships or research appointments during their tenure. Students should also seek membership in professional organizations, attend meetings to present research results, and maintain currency in the relevant literature.

The Ph.D. degree in Human Evolutionary Biology program is offered in consortium with Northeast Ohio Medical University and University of Akron.

### FULLY OFFERED AT:

- Kent Campus

## Admission Requirements

- Master's degree in anthropology or biological sciences from an accredited college or university<sup>1</sup> for unconditional admission
- Minimum 3.000 GPA on a 4.000 point scale for unconditional admission
- College-level courses in statistics and computer science (Effective Spring 2020 no longer required)
- Official transcript(s)
- GRE scores
- Goal statement
- Three letters of recommendation
- English language proficiency - all international students must provide proof of English language proficiency (unless they meet specific exceptions) by earning one of the following:
  - Minimum 600 TOEFL PBT score (paper-based version)
  - Minimum 100 TOEFL IBT score (Internet-based version)
  - Minimum 85 MELAB score
  - Minimum 7.0 IELTS score
  - Minimum 68 PTE score
  - Minimum 120 Duolingo English Test score

For more information about graduate admissions, please visit the Graduate Studies admission website. For more information on international admission, visit the Office of Global Education's admission website.

<sup>1</sup> A student with an outstanding academic record may receive a waiver of the master's degree requirement upon completion of 20 credit hours of graduate work and be admitted directly to the Ph.D. degree program.

## Program Learning Outcomes

Graduates of this program will be able to:

1. Publish their research in peer-reviewed journals.
2. Demonstrate the ability to teach undergraduate students.
3. Seek employment after graduation in fields that reflect their area of training.

## Program Requirements

### Major Requirements

Code	Title	Credit Hours
<b>Major Requirements</b> <sup>1</sup>		
BSCI 70143	EUKARYOTIC CELL BIOLOGY	3
BSCI 70144	SELECTED READINGS IN EUKARYOTIC CELL BIOLOGY	1
BMS 71000	RESPONSIBLE CONDUCT OF RESEARCH	1
BMS 71001	INTRODUCTION TO BIOMEDICAL SCIENCES	1
BMS 78630	PRINCIPLES OF BIOLOGICAL ANTHROPOLOGY	3

BMS 78637	BIOANTHROPOLOGICAL DATA ANALYSIS I	5
or PSYC 71651	QUANTITATIVE STATISTICAL ANALYSIS I	
BMS 78638	BIOANTHROPOLOGICAL DATA ANALYSIS II	3
or PSYC 71654	QUANTITATIVE STATISTICAL ANALYSIS II	
BMS 78691	SEMINAR IN BIOLOGICAL ANTHROPOLOGY	1
BMS 80199	DISSERTATION I <sup>2</sup>	30
Human Gross Anatomy Electives, choose from the following: <sup>3</sup>		5-8
BMS 78610	HUMAN GROSS ANATOMY I	
BMS 78611	HUMAN GROSS ANATOMY II	
Approved Human Gross Anatomy courses		
Electives <sup>4</sup>		4-9
Minimum Total Credit Hours:		60

- <sup>1</sup> Courses equivalent to those in the core may be substituted with the approval of the program committee.
- <sup>2</sup> Each doctoral candidate, upon admission to candidacy, must register for BMS 80199 for a total of 30 credit hours. It is expected that a doctoral candidate will continuously register for BMS 80199 and thereafter BMS 80299, each semester, until all requirements for the degree have been met.
- <sup>3</sup> May be satisfied by courses taken at NEOMED or any College of Podiatric Medicine. Students should consult with their advisory committee.
- <sup>4</sup> Cognate and elective courses in related departments (e.g., anthropology, biological sciences, chemistry, geology and psychology) will be selected and approved by the student's advisory committee.

## Biomedical Sciences - Neurosciences - M.S.

### College of Arts and Sciences

School of Biomedical Sciences

Cunningham Hall

Kent Campus

330-672-2263

[www.kent.edu/biomedical](http://www.kent.edu/biomedical)

## Description

The Master of Science degree in Biomedical Sciences–Neurosciences is an inter-institutional program that allows students to complete research projects under the guidance of a neuroscience faculty member at Kent State University, Cleveland Clinic and Northeast Ohio Medical University (NEOMED). Students complete a common set of core courses that cover fundamental principles in neuroscience, from the cellular/molecular to the systems level. Students also complete elective courses tailored to their chosen subdiscipline. Areas of research focus on the neurosciences include behavioral neuroscience, sensory neuroscience, developmental neuroscience and neurodegenerative diseases.

The Master of Science degree in Biomedical Sciences–Neurosciences is offered in consortium with Cleveland Clinic and Northeast Ohio Medical University.

### FULLY OFFERED AT:

- Kent Campus

## Admission Requirements

- Bachelor's degree from an accredited college or university for unconditional admission
- Minimum 3.000 undergraduate GPA on a 4.000 point scale for unconditional admission
- Sufficient undergraduate coursework in chemistry, math, biology, psychology and/or neuroscience
- Academic preparation adequate to complete graduate coursework in neuroscience
- Official transcript(s)
- GRE general test scores
- Three letters of recommendation
- Goal statement indicating the applicant's interests in neuroscience and career aspirations
- English language proficiency - all international students must provide proof of English language proficiency (unless they meet specific exceptions) by earning one of the following:
  - Minimum 600 TOEFL PBT score (paper-based version)
  - Minimum 100 TOEFL IBT score (Internet-based version)
  - Minimum 85 MELAB score
  - Minimum 7.0 IELTS score
  - Minimum 68 PTE score
  - Minimum 120 Duolingo English Test score

Applicants for the Ph.D. degree are preferred over the M.S. degree, given applications of roughly equivalent merit. For more information about graduate admissions, please visit the Graduate Studies admission website. For more information on international admission, visit the Office of Global Education's admission website.

## Program Learning Outcomes

Graduates of this program will be able to:

1. Publish their research in peer-reviewed journals.
2. Demonstrate the ability to teach undergraduate students.
3. Seek employment after graduation in fields that reflect their area of training.

## Program Requirements

### Major Requirements

Code	Title	Credit Hours
<b>Major Requirements</b>		
BMS 60199	THESIS I	6
BMS 60462	NEUROBIOLOGY: SYSTEMS AND BEHAVIOR	4
BMS 60729	CELLULAR AND MOLECULAR NEUROSCIENCE	4
BMS 61000	RESPONSIBLE CONDUCT OF RESEARCH	1
BMS 61001	INTRODUCTION TO BIOMEDICAL SCIENCES	1
Quantitative Methods and Statistics Electives, choose from the following:		3-5
ANTH 68637	BIOANTHROPOLOGICAL DATA ANALYSIS I	
ANTH 68638	BIOANTHROPOLOGICAL DATA ANALYSIS II	
PSYC 61651	QUANTITATIVE STATISTICAL ANALYSIS I	
PSYC 61654	QUANTITATIVE STATISTICAL ANALYSIS II	

Elective and Research Courses Approved by Thesis Committee 11-13

Minimum Total Credit Hours: 32

## Graduation Requirements

Minimum 17 credit hours of overall credit hours must be letter graded (required and elective courses).

## Biomedical Sciences - Neurosciences - Ph.D.

### College of Arts and Sciences

School of Biomedical Sciences

Cunningham Hall

Kent Campus

330-672-2263

[www.kent.edu/biomedical](http://www.kent.edu/biomedical)

## Description

The Ph.D. degree in Biomedical Sciences–Neurosciences is an inter-institutional program that allows students to complete research projects under the guidance of a neuroscience faculty member at Kent State University, Cleveland Clinic or Northeast Ohio Medical University (NEOMED). Students complete a common set of core courses that cover fundamental principles in neuroscience, from the cellular/molecular to the systems level. Students also complete elective courses tailored to their chosen subdiscipline. Areas of research focus on the neurosciences include behavioral neuroscience, sensory neuroscience, developmental neuroscience and neurodegenerative diseases.

The Ph.D. degree in Biomedical Sciences–Neurosciences is offered in consortium with Cleveland Clinic and Northeast Ohio Medical University.

### FULLY OFFERED AT:

- Kent Campus

## Admission Requirements

- Bachelor's degree or higher from an accredited college or university for unconditional admission
- Minimum 3.000 undergraduate GPA on a 4.000 point scale for unconditional admission
- Sufficient undergraduate coursework in chemistry, math, biology, psychology and/or neuroscience
- Academic preparation adequate to complete graduate coursework in neuroscience
- Official transcript(s)
- GRE general test scores
- Goal statement indicating the applicant's interests in neuroscience and career aspirations
- Three letters of recommendation
- English language proficiency - all international students must provide proof of English language proficiency (unless they meet specific exceptions) by earning one of the following:
  - Minimum 600 TOEFL PBT score (paper-based version)
  - Minimum 100 TOEFL IBT score (Internet-based version)
  - Minimum 85 MELAB score
  - Minimum 7.0 IELTS score

- Minimum 68 PTE score
- Minimum 120 Duolingo English Test score

Applicants for the Ph.D. degree are preferred over the M.S. degree, given applications of roughly equivalent merit. For more information about graduate admissions, please visit the Graduate Studies admission website. For more information on international admission, visit the Office of Global Education's admission website.

## Program Learning Outcomes

Graduates of this program will be able to:

1. Publish their research in peer-reviewed journals.
2. Demonstrate the ability to teach undergraduate students.
3. Seek employment after graduation in fields that reflect their area of training.

## Program Requirements

### Major Requirements

Code	Title	Credit Hours
<b>Major Requirements</b>		
BMS 70120	LABORATORY TECHNIQUES IN BIOMEDICAL SCIENCES (taken twice)	4
BMS 70462	NEUROBIOLOGY: SYSTEMS AND BEHAVIOR	4
BMS 70729	CELLULAR AND MOLECULAR NEUROSCIENCE	4
BMS 71000	RESPONSIBLE CONDUCT OF RESEARCH	1
BMS 71001	INTRODUCTION TO BIOMEDICAL SCIENCES	1
BMS 80199	DISSERTATION I <sup>1</sup>	30
Quantitative Methods and Statistics Electives, choose from the following:		3-5
BMS 78637	BIOANTHROPOLOGICAL DATA ANALYSIS I	
BMS 78638	BIOANTHROPOLOGICAL DATA ANALYSIS II	
PSYC 71651	QUANTITATIVE STATISTICAL ANALYSIS I	
PSYC 71654	QUANTITATIVE STATISTICAL ANALYSIS II	
Elective and Research Courses Approved by Dissertation Committee		11-13
<b>Minimum Total Credit Hours for Post-Baccalaureate Students:</b>		<b>90</b>
<b>Minimum Total Credit Hours for Post-Master's Students:</b>		<b>60</b>

<sup>1</sup> Doctoral candidates, upon admission to candidacy, must register for BMS 80199 for a total of 30 hours. It is expected that doctoral candidates will continuously register for BMS 80199, and thereafter BMS 80299, each semester, until all requirements for the degree have been met.

### Graduation Requirement

Post-baccalaureate students must complete a minimum 60 credit hours, and post-master's students a minimum 30 credit hours, of coursework prior to dissertation, which includes minimum 21 credit hours that are letter graded (required and elective courses).

## Biomedical Sciences - Pharmacology - M.S.

### College of Arts and Sciences

School of Biomedical Sciences  
Cunningham Hall  
Kent Campus

330-672-2263  
www.kent.edu/biomedical

## Description

The Master of Science degree in Biomedical Sciences–Pharmacology provide substantial opportunity to conduct research in molecular targeting, drug design and drug delivery in developing new approaches to treat disease. The multidisciplinary program enrolls a select group of graduate students interested in research-based careers in pharmacology, and provides a balance of classroom and laboratory work involving faculty at Kent State University and Northeast Ohio Medical University (NEOMED). Strong research foci exist in the areas of cardiovascular and metabolic diseases, neurodegenerative and blood brain barrier pharmacology. Interdisciplinary approaches to research and theoretical problems are strongly emphasized.

The Master of Science degree in Biomedical Sciences–Pharmacology is offered in consortium with Cleveland Clinic and Northeast Ohio Medical University.

### FULLY OFFERED AT:

- Kent Campus

## Admission Requirements

- Bachelor's degree from an accredited college or university for unconditional admission
- Minimum 3.000 undergraduate GPA on a 4.000 point scale for unconditional admission
- Official transcript(s)
- GRE general test scores
- Goal statement indicating the applicant's interests in pharmacology and career aspirations
- Academic preparation adequate to complete graduate coursework in general chemistry, organic chemistry, biochemistry, physics and physiology
- Three letters of recommendation
- English language proficiency - all international students must provide proof of English language proficiency (unless they meet specific exceptions) by earning one of the following:
  - Minimum 600 TOEFL PBT score (paper-based version)
  - Minimum 100 TOEFL IBT score (Internet-based version)
  - Minimum 85 MELAB score
  - Minimum 7.0 IELTS score
  - Minimum 68 PTE score
  - Minimum 120 Duolingo English Test score

For more information about graduate admissions, please visit the Graduate Studies admission website. For more information on international admission, visit the Office of Global Education's admission website.



## Program Requirements

### Major Requirements

Code	Title	Credit Hours
<b>Major Requirements</b>		
BMS 60199	THESIS I	6
BMS 60440	CELLULAR AND MOLECULAR SIGNALING	3
BMS 60502	MOLECULAR PHARMACOLOGY	4
BMS 60503	PHARMACOLOGY JOURNAL REVIEW	1
BMS 61000	RESPONSIBLE CONDUCT OF RESEARCH	1
BMS 61001	INTRODUCTION TO BIOMEDICAL SCIENCES	1
Quantitative Methods and Statistics Elective, choose from the following:		3-5
ANTH 68637	BIOANTHROPOLOGICAL DATA ANALYSIS I	
ANTH 68638	BIOANTHROPOLOGICAL DATA ANALYSIS II	
PSYC 61651	QUANTITATIVE STATISTICAL ANALYSIS I	
PSYC 61654	QUANTITATIVE STATISTICAL ANALYSIS II	
Research and Elective Coursework as Approved by Thesis Committee		11-13
Minimum Total Credit Hours:		32

### Graduation Requirements

Minimum 17 credit hours of overall hours must be letter graded (required and elective courses).

## Biomedical Sciences - Pharmacology - Ph.D.

### College of Arts and Sciences

Department of Biomedical Sciences

Cunningham Hall

Kent Campus

330-672-2263

[www.kent.edu/biomedical](http://www.kent.edu/biomedical)

### Description

The Ph.D. degree in Biomedical Sciences–Pharmacology provides substantial opportunity for students to conduct research in molecular targeting, drug design and drug delivery in developing new approaches to treat disease. The multidisciplinary program enrolls a select group of graduate students interested in research-based careers in pharmacology and provides a balance of classroom and laboratory work involving faculty at Kent State University and Northeast Ohio Medical University (NEOMED). Strong research foci exist in the areas of cardiovascular and metabolic diseases, neurodegenerative and blood brain barrier pharmacology. Interdisciplinary approaches to research and theoretical problems are strongly emphasized.

The Ph.D. degree in Biomedical Sciences–Pharmacology is offered in consortium with Cleveland Clinic and Northeast Ohio Medical University.

### FULLY OFFERED AT:

- Kent Campus

### Admission Requirements

- Bachelor's degree or higher from an accredited college or university for unconditional admission

- Minimum 3.000 undergraduate/graduate GPA on a 4.000 point scale for unconditional admission
- Academic preparation adequate to complete graduate coursework in general chemistry, organic chemistry, biochemistry, physics and physiology
- Official transcript(s)
- GRE general test scores
- Goal statement indicating the applicant's interests in pharmacology and career aspirations
- Three letters of recommendation
- English language proficiency - all international students must provide proof of English language proficiency (unless they meet specific exceptions) by earning one of the following:
  - Minimum 600 TOEFL PBT score (paper-based version)
  - Minimum 100 TOEFL IBT score (Internet-based version)
  - Minimum 85 MELAB score
  - Minimum 7.0 IELTS score
  - Minimum 68 PTE score
  - Minimum 120 Duolingo English Test score

For more information about graduate admissions, please visit the Graduate Studies admission website. For more information on international admission, visit the Office of Global Education's admission website.

## Program Requirements

### Major Requirements

Code	Title	Credit Hours
<b>Major Requirements</b>		
BMS 70120	LABORATORY TECHNIQUES IN BIOMEDICAL SCIENCES (taken twice)	4
BMS 70440	CELLULAR AND MOLECULAR SIGNALING	3
BMS 70502	MOLECULAR PHARMACOLOGY	4
BMS 70503	PHARMACOLOGY JOURNAL REVIEW	1
BMS 71000	RESPONSIBLE CONDUCT OF RESEARCH	1
BMS 71001	INTRODUCTION TO BIOMEDICAL SCIENCES	1
BMS 80199	DISSERTATION I <sup>1</sup>	30
Quantitative Methods and Statistics Elective, choose from the following:		3-5
BMS 78637	BIOANTHROPOLOGICAL DATA ANALYSIS I	
BMS 78638	BIOANTHROPOLOGICAL DATA ANALYSIS II	
PSYC 71651	QUANTITATIVE STATISTICAL ANALYSIS I	
PSYC 71654	QUANTITATIVE STATISTICAL ANALYSIS II	
Elective and Research Courses Approved by Dissertation Committee		11-13
<b>Minimum Total Credit Hours for Post-Baccalaureate Students:</b>		<b>90</b>
<b>Minimum Total Credit Hours for Post-Master's Students:</b>		<b>60</b>

<sup>1</sup> Upon completion of course requirements and candidacy exams, doctoral students must register for BMS 80199 for two semesters for a total of 30 credit hours and thereafter BMS 80299 until all requirements for the degree have been met. As soon after completion of the candidacy examination as possible, the dissertation committee will be established consisting of the guidance committee and an outside discipline member — a graduate faculty member from another department at Kent State University or another program committee of the School of Biomedical Sciences. The student will submit to this committee her/his prospectus for the dissertation. The format of the prospectus will parallel that utilized for National Institutes of Health grant proposals (without biographical, budget and facilities information). The dissertation committee may elect to examine the candidate on the proposal, may accept it as submitted, or may reject it with specific reasons and recommendations for reformulation.

## Graduation Requirement

Post-baccalaureate students must complete a minimum 60 credit hours, and post-master's students a minimum 30 credit hours, of coursework prior to dissertation, which includes minimum 21 credit hours that are letter graded (required and elective courses).

# Biomedical Sciences - Physiology Interdisciplinary - M.S.

**College of Arts and Sciences**  
School of Biomedical Sciences  
Cunningham Hall  
Kent Campus  
330-672-2263  
www.kent.edu/biomedical

## Description

The Master of Science degree in Biomedical Sciences–Physiology Interdisciplinary prepares graduates in areas that include cardiovascular, pulmonary, endocrine and neuroendocrine, reproductive or exercise physiology. In this context, emphasis is placed on an integrative approach for both research and graduate education. As with other program areas, the Biomedical Sciences–Physiology Interdisciplinary major takes advantage of the latest molecular and cellular techniques to address questions related to human diseases.

Faculty members are drawn from various departments at Kent State University, Northeast Ohio Medical University (NEOMED) and the Lerner Research Institute of the Cleveland Clinic. Although graduate work may be completed in any of the various research areas, faculty are listed in two general specializations: (1) environmental and comparative physiology and (2) cardiopulmonary and exercise physiology. Each specialization addresses different subject areas of physiology and each has an associated training faculty. The degree program is research oriented and designed to provide students with a thorough grounding in physiological principles and techniques within several well-defined focus areas.

The Master of Science degree in Biomedical Sciences–Physiology Interdisciplinary is offered in consortium with Cleveland Clinic and Northeast Ohio Medical University.

## FULLY OFFERED AT:

- Kent Campus

## Admission Requirements

- Bachelor's degree from an accredited college or university for unconditional admission
- Minimum 3.000 undergraduate GPA on a 4.000 point scale for unconditional admission
- Academic preparation adequate to perform graduate work in the desired field (typically two years of chemistry, one year of mathematics, one year of physics and courses in anthropology, biology and psychology)
- Official transcript(s)
- GRE scores
- Goal statement
- Three letters of recommendation
- English language proficiency - all international students must provide proof of English language proficiency (unless they meet specific exceptions) by earning one of the following:
  - Minimum 600 TOEFL PBT score (paper-based version)
  - Minimum 100 TOEFL IBT score (Internet-based version)
  - Minimum 85 MELAB score
  - Minimum 7.0 IELTS score
  - Minimum 68 PTE score
  - Minimum 120 Duolingo English Test score

Admission with deficiencies may be accorded, but these must be made up during the first two years of graduate study. For more information about graduate admissions, please visit the Graduate Studies admission website. For more information on international admission, visit the Office of Global Education's admission website.

## Program Learning Outcomes

Graduates of this program will be able to:

1. Publish their research in peer-reviewed journals.
2. Demonstrate the ability to teach undergraduate students.
3. Seek employment after graduation in fields that reflect their area of training.

## Program Requirements

### Major Requirements

Code	Title	Credit Hours
<b>Major Requirements</b>		
BMS 60199	THESIS I	6
CHEM 50245	BIOCHEMICAL FOUNDATIONS OF MEDICINE	4
Physiology Electives, choose from the following:		6-9
BMS 60450	MEDICAL PHYSIOLOGY II	
BSCI 50433 & BSCI 50434	MAMMALIAN PHYSIOLOGY I and MAMMALIAN PHYSIOLOGY II	
Research Methods Electives, choose from the following:		3-9
EXPH 63050 & EXPH 63051	RESEARCH PROCESS IN ATHLETIC TRAINING AND EXERCISE PHYSIOLOGY and QUANTITATIVE AND RESEARCH METHODS IN ATHLETIC TRAINING AND EXERCISE PHYSIOLOGY	

PSYC 61651	QUANTITATIVE STATISTICAL ANALYSIS I <sup>1</sup>	
Neuroscience or Exercise Physiology Electives, choose from the following:		4-6
BMS 60729	CELLULAR AND MOLECULAR NEUROSCIENCE <sup>1</sup>	
EXPH 65081 & EXPH 65082	ENERGY METABOLISM AND BODY COMPOSITION and CARDIO-RESPIRATORY FUNCTION	
Electives Approved by Advisory Committee		0-9
Minimum Total Credit Hours:		32

<sup>1</sup> Students who select PSYC 61651 and/or BMS 60729 should expect to take additional electives to meet the minimum 32 credit hours for the degree.

## Biomedical Sciences - Physiology Interdisciplinary - Ph.D.

### College of Arts and Sciences

School of Biomedical Sciences  
Cunningham Hall  
Kent Campus  
330-672-2263  
www.kent.edu/biomedical

## Description

The Ph.D. degree in Biomedical Sciences–Physiology Interdisciplinary prepares graduates in areas that include cardiovascular, pulmonary, endocrine and neuroendocrine, reproductive or exercise physiology. In this context, emphasis is placed on an integrative approach for both research and graduate education. As with other program areas, the physiology program takes advantage of the latest molecular and cellular techniques to address questions related to human diseases.

Faculty members are drawn from various departments at Kent State University, Northeast Ohio Medical University (NEOMED) and the Lerner Research Institute of the Cleveland Clinic. Although graduate work may be completed in any of the various research areas, faculty are listed in two general specializations: (1) environmental and comparative physiology and (2) cardiopulmonary and exercise physiology. Each specialization addresses different subject areas of physiology and each has an associated training faculty. The degree program is research oriented and designed to provide students with a thorough grounding in physiological principles and techniques within several well-defined focus areas.

The Ph.D. degree in Biomedical Sciences–Physiology is offered in consortium with Cleveland Clinic and Northeast Ohio Medical University.

### FULLY OFFERED AT:

- Kent Campus

## Admission Requirements

- Master's degree from an accredited college or university<sup>1</sup> for unconditional admission
- Minimum 3.000 undergraduate GPA on a 4.000 point scale for unconditional admission
- Official transcript(s)

- GRE scores
- Goal statement
- Three letters of recommendation
- English language proficiency - all international students must provide proof of English language proficiency (unless they meet specific exceptions) by earning one of the following:
  - Minimum 600 TOEFL PBT score (paper-based version)
  - Minimum 100 TOEFL IBT score (Internet-based version)
  - Minimum 85 MELAB score
  - Minimum 7.0 IELTS score
  - Minimum 68 PTE score
  - Minimum 120 Duolingo English Test score

For more information about graduate admissions, please visit the Graduate Studies admission website. For more information on international admission, visit the Office of Global Education's admission website.

<sup>1</sup> Students without a master's degree may be permitted direct matriculation to the doctoral program following completion of no less than 20 credit hours of graduate coursework (including the core) and with the recommendation of the student's guidance committee and the school director. Normally, a student is admitted to the master's program prior to doctoral work, but a student holding only a baccalaureate may be admitted directly into the doctoral program in exceptional cases.

## Program Learning Outcomes

Graduates of this program will be able to:

1. Publish their research in peer-reviewed journals.
2. Demonstrate the ability to teach undergraduate students.
3. Seek employment after graduation in fields that reflect their area of training.

## Program Requirements

### Major Requirements

Code	Title	Credit Hours
<b>Major Requirements</b>		
BMS 80199	DISSERTATION I <sup>1</sup>	30
CHEM 50245	BIOCHEMICAL FOUNDATIONS OF MEDICINE	4
Physiology Electives, choose from the following:		6-7
BMS 70450	MEDICAL PHYSIOLOGY II	
BSCI 70433 & BSCI 70434	MAMMALIAN PHYSIOLOGY I and MAMMALIAN PHYSIOLOGY II	
Research Methods, choose from the following:		3-9
EXPH 73050 & EXPH 73051	RESEARCH PROCESSES IN ATHLETIC TRAINING AND EXERCISE PHYSIOLOGY and QUANTITATIVE AND RESEARCH METHODS IN ATHLETIC TRAINING AND EXERCISE PHYSIOLOGY	
PSYC 71651	QUANTITATIVE STATISTICAL ANALYSIS I <sup>2</sup>	
Neuroscience or Exercise Physiology Electives, choose from the following:		4-6
BMS 70729	CELLULAR AND MOLECULAR NEUROSCIENCE <sup>2</sup>	
EXPH 75081 & EXPH 75082	ENERGY METABOLISM AND BODY COMPOSITION and CARDIO-RESPIRATORY FUNCTION	

Electives Approved by Advisory Committee	4-13
Minimum Total Credit Hours:	60

- <sup>1</sup> Each doctoral candidate, upon admission to candidacy, must register for BMS 80199 for a total of 30 credit hours. It is expected that a doctoral candidate will continuously register for Dissertation I, and thereafter BMS 80299, each semester, until all requirements for the degree have been met.
- <sup>2</sup> Students who select PSYC 71651 and/or BMS 70729 should expect to take additional electives to meet the minimum 60 credit hours for the degree.

## School of Peace and Conflict Studies

### College of Arts and Sciences

School of Peace and Conflict Studies

113 McGilvrey

Kent Campus

330-672-3143

spcs@kent.edu

www.kent.edu/spcs

## Undergraduate Programs

- Peace and Conflict Studies - B.A.

## Minors

- Peace and Conflict Studies

## School of Peace and Conflict Studies Faculty

- Arai, Tatsushi (2019), Associate Professor
- Bleak, Jacquelyn K. (2014), Lecturer, M.S., George Mason University, 2012
- Cunningham, Karen D. (1990), Professor, J.D., Washington and Lee University, 1986
- Hancock, Landon E. (2006), Professor, Ph.D., George Mason University, 2003
- Koopman, Sara (2017), Assistant Professor, Ph.D., University of British Columbia, 2012
- Solomon, Johanna A. (2017), Assistant Professor

## Peace and Conflict Studies (PACS)

### PACS 11001 INTRODUCTION TO CONFLICT MANAGEMENT (DIVD) (KSS) 3 Credit Hours

Introduces key elements of conflict management theory and peacebuilding practice such as conflict styles, active listening, assertion, collaborative problem solving, principled negotiation, mediation and nonviolent conflict intervention. These are essential "life skills" useful in personal, social and professional contexts. Includes conflict communication skills development and practice.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Diversity Domestic, Kent Core Social Sciences, Transfer Module Social Sciences

### PACS 30000 MAY 4 1970 AND ITS AFTERMATH 3 Credit Hours

(Cross-listed with POL 30000) Study of the events of the 1960s in the US leading up to May 4, 1970 when the Ohio National Guard killed and wounded KSU students protesting the US war in Vietnam and Cambodia. Topics are considered within their cultural, historical, social and political contexts. Also examines the aftermath of May 4th, including the controversy over constructing the Gym Annex on the May 4th site, the legal trials, the role of commemorations and memorials and the politics of remembering May 4, 1970.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

### PACS 31002 GENDER, POWER AND CONFLICT 3 Credit Hours

Examines gender roles and power imbalances in interpersonal relationships, group settings, and on the structural level and the various manifestations of violence that may result, considering some of the ways in which these imbalances are developed, maintained and constructively addressed and potentially redressed.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

### PACS 31003 NONVIOLENCE: THEORY AND PRACTICE 3 Credit Hours

Social conflicts can be intensified and waged in a constructive manner through nonviolent action. Examines how nonviolent action methods bring about social and political change. Explores the theory and philosophy underlying strategies of nonviolent action. Utilizes a wide variety of historical and contemporary case examples of nonviolent struggles from across the globe.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

### PACS 31010 CONFLICT THEORY 3 Credit Hours

Explores the theoretical foundations of conflict and conflict management to provide a greater understanding of the nature, sources and dynamics of various types of conflict, the special challenges faced in addressing those conflicts, and the theory underlying various approaches to conflict management and resolution.

**Prerequisite:** PACS 11001.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

### PACS 32020 STRATEGIC PLANNING 3 Credit Hours

Provides training in the principles and tactics of strategic planning for individuals, organizations, agencies and institutions. Students learn to apply the principles of conflict management to strategic planning, including assessing the current environment, developing goals and objectives and establishing a timeline for acting on a strategic plan.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PACS 32030 INTERNATIONAL CONFLICT RESOLUTION (DIVG) 3 Credit Hours**

Examines causes, expressions and consequences of international conflicts, exploring mechanisms of their prevention, management and resolution. Includes the appearance and development of these conflicts and early warning, negotiation, and peacekeeping and peacebuilding. Covers international and civil wars and topics such as international terrorism.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Diversity Global

**PACS 32040 CROSS-CULTURAL CONFLICT MANAGEMENT (DIVG) 3 Credit Hours**

Examines cultural components of conflicts in diverse, multi-cultural settings with special emphases on the nature and sources of cross-cultural conflicts, conflict escalation and de-escalation, and the roles of power disparities. Students examine their own cultural assumptions in order to better understand the multiple effects that cultural dynamics have in conflicts. Case analyses will include conflict resolution techniques respectful of the cultural values of the parties in conflict.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Diversity Global

**PACS 33030 CONFLICT IN THE WORKPLACE 3 Credit Hours**

Explores the causes, impact and dynamics of conflict in the workplace. Issues explored include personality conflict, incivility, ethics, teams, management style, diversity, legal issues, alternative dispute resolution, union environments and workplace violence.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PACS 34010 CAREER PATHWAYS IN PEACE AND CONFLICT STUDIES 3 Credit Hours**

So what does one do with a major or minor in peace and conflict studies? How does one find a job or internship in the field? This course encourages students to explore and critically examine how the skills and knowledge learned in Peace and Conflict Studies courses can be utilized and applied in real-world settings. Students will interact with alumni and professionals working in a variety of careers that utilize conflict management and related skills. They will learn how to do professional networking, create a career plan, develop job search strategies, and learn how to market their skills and knowledge. Students will complete the course with a career plan, a detailed identification and exploration of options, or another career-related project.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PACS 35050 ENVIRONMENTAL CONFLICT RESOLUTION 3 Credit Hours**

(Cross-listed with POL 30350) Examines alternative dispute resolution principles applicable to complex, multi-party public sector disputes, especially environmental and land use disputes. Students learn about deliberative democracy, a variety of circle processes, consensus decision-making, collaborative problem-solving, digital dialogue processes, and town hall meeting structures among others. Case studies of environmental conflicts and multi-party mediation simulations are used.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PACS 35092 INTERNSHIP IN PEACE AND CONFLICT STUDIES (ELR) 1-9 Credit Hours**

(Repeatable for a total of 12 hours). Students work as interns with an organization, group, or business, utilizing and enhancing their skills in conflict management and applied peace studies. Three hours of internship is required for the Applied Peace and Conflict Studies major and is an elective for the Applied Peace and Conflict Studies minor.

**Prerequisite:** Completion of two upper-division PACS courses; and junior standing and; special approval.

**Schedule Type:** Practical Experience

**Contact Hours:** 3-27 other

**Grade Mode:** Standard Letter-IP

**Attributes:** Experiential Learning Requirement

**PACS 35095 SPECIAL TOPICS IN PEACE AND CONFLICT STUDIES 3 Credit Hours**

(Repeatable for credit) Designed to provide an in-depth examination of topics and issues of interest to faculty and students. Specific topics are announced in the Schedule of Classes and on the School of Peace and Conflict Studies web site.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PACS 36096 INDIVIDUAL INVESTIGATION IN PEACE AND CONFLICT STUDIES 3 Credit Hours**

(Repeatable for credit) Individualized program of study and literature review in area of particular interest to the student.

**Prerequisite:** Two upper-division PACS courses; and junior standing; and special approval.

**Schedule Type:** Individual Investigation

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter-IP

**PACS 41010 RECONCILIATION VERSUS REVENGE: TRANSITIONAL JUSTICE (DIVG) (WIC) 3 Credit Hours**

'Transitional justice' refers to civil and political processes used to move from violence and tyranny to peace and democracy. War crimes tribunals, truth and reconciliation commissions, apologies, forgiveness, reparations and memorials will be examined.

**Prerequisite:** PACS 32030; and 1 upper-division PACS course; and junior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Diversity Global, Writing Intensive Course



**PACS 42020 QUALITATIVE RESEARCH IN PEACE AND CONFLICT STUDIES (WIC) 3 Credit Hours**

An overview of qualitative research methods used to gather and analyze data in peace and conflict studies. Gives students experience in collecting and analyzing data and writing a major research paper.

**Prerequisite:** PACS 11001; and two upper-division PACS courses; and junior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Writing Intensive Course

**PACS 44040 NEGOTIATION 3 Credit Hours**

(Slashed with PACS 54040) Effective negotiation skills are essential for success in both our professional and personal lives. This course explores in an engaging and interactive way negotiation theories, strategies and techniques. Students will enhance their negotiation skills by learning to plan for an effective negotiation, to elicit information effectively, to build relationships, to improve their communication and persuasive abilities and to deal with a variety of situations and circumstances. There will be several opportunities to practice negotiation skills in class, to experiment with different approaches, and to develop the skills and confidence to be able to negotiate effectively and constructively.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PACS 45093 VARIABLE TOPIC WORKSHOP IN PEACE AND CONFLICT STUDIES 1-6 Credit Hours**

(Repeatable for a total of 6 credit hours) Variable topic offered as need arises. Specific topics will be announced in the Schedule of Classes and on the School of Peace and Conflict Studies website.

**Prerequisite:** Special approval.

**Schedule Type:** Workshop

**Contact Hours:** 1-6 other

**Grade Mode:** Satisfactory/Unsatisfactory

**PACS 48080 MEDIATION: THEORY AND TRAINING 3 Credit Hours**

(Slashed with PACS 58080) Provides training in mediation skills, principles and methods in an interactive way. Students examine the historical development of mediation and the uses of mediation in various contexts including family, business, labor-management, civil, community, and workplace disputes.

**Prerequisite:** PACS 11001.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PACS 49091 VARIABLE TITLE SEMINAR IN PEACE AND CONFLICT STUDIES 1-3 Credit Hours**

(Repeatable for a total of 3 credit hours) Seminar devoted to detailed study of various topics in the field of peace and conflict studies. Specific topics are announced in Schedule of Classes and on the School of Peace and Conflict Studies website.

**Prerequisite:** Junior standing.

**Schedule Type:** Seminar

**Contact Hours:** 1-3 other

**Grade Mode:** Standard Letter

**PACS 54040 NEGOTIATION 3 Credit Hours**

(Slashed with PACS 44040) Effective negotiation skills are essential for success in both our professional and personal lives. This course explores in an engaging and interactive way negotiation theories, strategies and techniques. Students will enhance their negotiation skills by learning to plan for an effective negotiation, to elicit information effectively, to build relationships, to improve their communication and persuasive abilities and to deal with a variety of situations and circumstances. There will be several opportunities to practice negotiation skills in class, to experiment with different approaches, and to develop the skills and confidence to be able to negotiate effectively and constructively.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PACS 58080 MEDIATION: THEORY AND TRAINING 3 Credit Hours**

(Slashed with PACS 48080) Provides training in mediation skills, principles and methods through cooperative, participatory, interactive, skills-building pedagogies. Students examine the historical development of mediation and the uses of mediation in various contexts including family, business, labor-management, civil, community, and workplace disputes.

**Prerequisite:** Graduate Standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

## Peace and Conflict Studies - B.A.

**College of Arts and Sciences**

School of Peace and Conflict Studies

113 McGilvrey Hall

Kent Campus

330-672-3143

spcs@kent.edu

www.kent.edu/spcs

## Description

The Bachelor of Arts degree in Peace and Conflict Studies (formally called Applied Conflict Management) prepares students for careers or graduate study in the field of conflict management, peace studies and dispute resolution. This major gives students a solid background in managing conflicts in constructive, not destructive, ways. Students learn skills that are not only useful in a variety of workplace settings, but in everyday life and relationships as well.

Program areas of focus include mediation, negotiation, environmental conflict resolution, international conflict resolution, workplace conflict management, nonviolent action and community organizing. As this is an applied program, students learn skills and build professional networks through the internship, which can be completed in a wide variety of contexts.

### Fully Offered At:

- Kent Campus

## Admission Requirements

The university affirmatively strives to provide educational opportunities and access to students with varied backgrounds, those with special

talents and adult students who graduated from high school three or more years ago.

**Freshman Students on the Kent Campus:** The freshman admission policy on the Kent Campus is selective. Admission decisions are based upon the following: cumulative grade point average, ACT and/or SAT scores, strength of high school college preparatory curriculum and grade trends. The Admissions Office at the Kent Campus may defer the admission of students who do not meet admissions criteria but who demonstrate areas of promise for successful college study. Deferred applicants may begin their college coursework at one of seven regional campuses of Kent State University. For more information on admissions, including additional requirements for some academic programs, visit the admissions website for new freshmen.

**Freshman Students on the Regional Campuses:** Kent State campuses at Ashtabula, East Liverpool, Geauga, Salem, Stark, Trumbull and Tuscarawas, as well as the Regional Academic Center in Twinsburg, have open enrollment admission for students who hold a high school diploma, GED or equivalent.

**English Language Proficiency Requirements for International Students:** All international students must provide proof of English language proficiency (unless they meet specific exceptions) by earning a minimum 525 TOEFL score (71 on the Internet-based version), minimum 75 MELAB score, minimum 6.0 IELTS score or minimum 48 PTE score, or by completing the ESL level 112 Intensive Program. For more information on international admission, visit the Office of Global Education's admission website.

**Transfer, Transitioning and Former Students:** For more information about admission criteria for transfer, transitioning and former students, please visit the admissions website.

## Program Learning Outcomes

Graduates of this program will be able to:

1. Demonstrate the research and analytical skills that will be useful while working in the field of peace studies and conflict management.
2. Analyze the dynamics of social conflicts and apply the principles of nonviolent theory and practice in order to wage conflict constructively to bring about social or political change.
3. Utilize conflict management and peace-building skills and knowledge to effectively develop, teach and/or implement approaches to preventing, managing and resolving conflicts
4. Demonstrate an ability to identify and analyze the cultural dimensions of conflicts and conflict management.
5. Describe and interpret the roles that gendered power dynamics play in conflicts and conflict management.
6. Demonstrate a broad grounding in the field of peace and conflict studies by being able to explain the historical evolution of the field, by identifying and analyzing a full range of conflict dynamics, and by designing constructive and appropriate intervention tactics and strategies.
7. Demonstrate an ability to explain the main theories on causes, expression and consequences of international conflicts, and comparatively evaluate different mechanisms of prevention, management and resolution of international conflicts.

## University Requirements

All students in a bachelor's degree program at Kent State University must complete the following university requirements for graduation.

**NOTE:** University requirements may be fulfilled in this program by specific course requirements. Please see Program Requirements for details.

Destination Kent State: First Year Experience	1
Course is not required for students with 25 transfer credits, excluding College Credit Plus, or age 21+ at time of admission.	
Diversity Domestic/Global (DIVD/DIVG)	2 courses
Students must successfully complete one domestic and one global course, of which one must be from the Kent Core.	
Experiential Learning Requirement (ELR)	varies
Students must successfully complete one course or approved experience.	
Kent Core (see table below)	36-37
Writing-Intensive Course (WIC)	1 course
Students must earn a minimum C grade in the course.	
Upper-Division Requirement	39 (or 42)
Students must successfully complete 39 upper-division (numbered 30000 to 49999) credit hours to graduate. Students in a B.A. and/or B.S. degree in the College of Arts and Sciences must complete 42 upper-division credit hours.	
Total Credit Hour Requirement	120
Some bachelor's degrees require students to complete more than 120 credit hours.	

## Kent Core Requirements

Kent Core Composition (KCMP)	6
Kent Core Mathematics and Critical Reasoning (KMCR)	3
Kent Core Humanities and Fine Arts (KHUM/KFA) (min one course each)	9
Kent Core Social Sciences (KSS) (must be from two disciplines)	6
Kent Core Basic Sciences (KBS/KLAB) (must include one laboratory)	6-7
Kent Core Additional (KADL)	6
<b>Total Credit Hours:</b>	<b>36-37</b>

## Program Requirements

### Major Requirements

Code	Title	Credit Hours
<b>Major Requirements (courses count in major GPA)</b>		
PACS 11001	INTRODUCTION TO CONFLICT MANAGEMENT (DIVD) (KSS)	3
PACS 31002	GENDER, POWER AND CONFLICT	3
PACS 31003	NONVIOLENCE: THEORY AND PRACTICE	3
PACS 31010	CONFLICT THEORY	3
PACS 32030	INTERNATIONAL CONFLICT RESOLUTION (DIVG)	3
PACS 35092	INTERNSHIP IN PEACE AND CONFLICT STUDIES (ELR) <sup>1</sup>	3
PACS 41010	RECONCILIATION VERSUS REVENGE: TRANSITIONAL JUSTICE (DIVG) (WIC)	3
PACS 48080	MEDIATION: THEORY AND TRAINING	3
Major Electives, choose from the following: <sup>2</sup>		9

PACS 30000	MAY 4 1970 AND ITS AFTERMATH
PACS 32020	STRATEGIC PLANNING
PACS 32040	CROSS-CULTURAL CONFLICT MANAGEMENT (DIVG)
PACS 33030	CONFLICT IN THE WORKPLACE
PACS 34010	CAREER PATHWAYS IN PEACE AND CONFLICT STUDIES
PACS 35050	ENVIRONMENTAL CONFLICT RESOLUTION
PACS 35095	SPECIAL TOPICS IN PEACE AND CONFLICT STUDIES
PACS 42020	QUALITATIVE RESEARCH IN PEACE AND CONFLICT STUDIES (WIC)
PACS 44040	NEGOTIATION
PACS 49091	VARIABLE TITLE SEMINAR IN PEACE AND CONFLICT STUDIES

**Additional Requirements (courses do not count in major GPA)**

UC 10097	DESTINATION KENT STATE: FIRST YEAR EXPERIENCE	1
Foreign Language (see Foreign Language College Requirement below)		14-20
College General Requirements (must be from Kent Core Basic Sciences) <sup>4</sup>		3
College General Requirements (must be from Kent Core Social Sciences) <sup>5</sup>		3
Kent Core Composition		6
Kent Core Mathematics and Critical Reasoning		3
Kent Core Humanities and Fine Arts (minimum one course from each)		9
Kent Core Social Sciences (must be from two disciplines)		3
Kent Core Basic Sciences (must include one laboratory)		6-7
Kent Core Additional		6
General Electives (total credit hours depends on earning 120 credit hours, including 42 upper-division credit hours)		33
Minimum Total Credit Hours:		120

<sup>1</sup> Maximum 3 credit hours of PACS 35092 may count toward the Peace and Conflict Studies major. Students may enroll in 1-9 additional hours which can count towards upper-division credit hours.

<sup>2</sup> Students who have completed the Columbus Program in Intergovernmental Issues or the Washington Program in National Issues (total 15 credit hours for POL 40980 or POL 40981, respectively) may substitute 3 credit hours for PACS 35092 and 6 credit hours for major electives. The remaining 6 credit hours may be used to fulfill the upper-division requirement and/or as course substitutions for required courses. Course substitutions will be considered on a case-by-case basis in consultation with a program faculty advisor.

<sup>3</sup> A minimum C grade must be earned to fulfill the writing-intensive requirement.

<sup>4</sup> One additional course taken from the Kent Core Basic Science courses in the following Arts and Sciences disciplines: Anthropology (ANTH), Biological Sciences (BSCI), Chemistry (CHEM), Geography (GEOG), Geology (GEOL) or Physics (PHY). The course may not be from the student's major.

<sup>5</sup> One additional course taken from the Kent Core Social Sciences courses in the following Arts and Sciences disciplines: Anthropology (ANTH), Geography (GEOG), Criminology and Justice Studies (CRIM), Political Science (POL), Psychology (PSYC) or Sociology (SOC). The course may not be from the student's major.

## Graduation Requirements

Minimum Major GPA	Minimum Overall GPA
2.000	2.000

### Foreign Language College Requirement

Students pursuing the Bachelor of Arts degree in the College of Arts and Sciences must complete 14-16 credit hours of foreign language.<sup>1</sup>

To complete the requirement, students have the equivalent of Elementary I and II in any language, plus one of the following options:

1. Intermediate I and II of the same language<sup>2</sup>
2. Elementary I and II of a second language
3. Any combination of two courses from the following list:

- Intermediate I of the same language
- MCLS 10001 INTRODUCTION TO STRUCTURAL CONCEPTS FOR LANGUAGE STUDENTS
- MCLS 20091 VARIABLE CONTENT SEMINAR IN GLOBAL LITERACY: CASE STUDIES
- MCLS 21417 MULTICULTURALISM IN TODAY'S GERMANY (DIVG)
- MCLS 28404 THE LATIN AMERICAN EXPERIENCE (DIVG)

- <sup>1</sup> All students with prior foreign language experience should take the foreign language placement test to determine the appropriate level at which to start. Some students may begin beyond the Elementary I level and will complete the requirement with fewer credit hours and fewer courses. This may be accomplished by (1) passing a course beyond Elementary I through Intermediate II level; (2) receiving credit through Credit by Exam (CBE), Advanced Placement (AP), International Baccalaureate (IB) or College Level Examination Program (CLEP); or (3) being designated a 'native speaker' of a non-English language (consult with the College of Arts and Sciences Advising Office for additional information). When students complete the requirement with fewer than 14 credit hours and four courses, they will complete remaining credit hours with general electives.
- <sup>2</sup> Certain majors, concentrations and minors may require specific languages, limit the languages from which a student may choose or require coursework through Intermediate II. Students who plan to pursue graduate study may need particular language coursework.

## Roadmap

This roadmap is a recommended semester-by-semester plan of study for this major. However, courses designated as critical (!) must be completed in the semester listed to ensure a timely graduation.

Semester One		Credits
UC 10097	DESTINATION KENT STATE: FIRST YEAR EXPERIENCE	1
Foreign Language		4-5
Kent Core Requirement		3
Kent Core Requirement		3
Kent Core Requirement		3
Credit Hours		14
Semester Two		Credits
Foreign Language		4-5
Kent Core Requirement		3
Kent Core Requirement		3
Kent Core Requirement		3
Credit Hours		13
Semester Three		Credits
Foreign Language		3-5
Kent Core Requirement		3
Kent Core Requirement		3
Kent Core Requirement		3
Kent Core Requirement		3
Credit Hours		15
Semester Four		Credits
PACS 11001	INTRODUCTION TO CONFLICT MANAGEMENT (DIVD) (KSS)	3
Foreign Language		3-5
College General Requirements		3
College General Requirements		3
Kent Core Requirement		3
Credit Hours		15
Semester Five		Credits
PACS 31002	GENDER, POWER AND CONFLICT	3
PACS 31010	CONFLICT THEORY	3
PACS 32030	INTERNATIONAL CONFLICT RESOLUTION (DIVG)	3
General Electives		6
Credit Hours		15
Semester Six		Credits
PACS 41010	RECONCILIATION VERSUS REVENGE: TRANSITIONAL JUSTICE (DIVG) (WIC)	3
PACS 48080	MEDIATION: THEORY AND TRAINING	3
Major Elective		3
General Electives		6
Credit Hours		15
Third Summer Term		Credits
PACS 35092	INTERNSHIP IN PEACE AND CONFLICT STUDIES (ELR)	3
Credit Hours		3
Semester Seven		Credits
PACS 31003	NONVIOLENCE: THEORY AND PRACTICE	3
Major Elective		3
General Electives		9
Credit Hours		15

### Semester Eight

Major Elective	3
General Electives	12
Credit Hours	15
Minimum Total Credit Hours:	120

## Peace and Conflict Studies - Minor

### College of Arts and Sciences

School of Peace and Conflict Studies

113 McGilvrey Hall

Kent Campus

330-672-3143

spcs@kent.edu

www.kent.edu/spcs

## Description

The Peace and Conflict Studies minor (formally called Applied Conflict Management minor) gives students a solid background in the theory and skills of managing conflicts in constructive, not destructive ways. Students learn how to apply skills that are not only useful in a variety of workplace settings, but in everyday life and relationships as well.

The minor especially is beneficial for students with a major or interest in business, communication studies, criminology and justice studies, nursing, public health, psychology, political science and sociology. However, because the skills taught are life skills, this minor matches up well with many majors.

### Fully Offered At:

- Kent Campus

## Admission Requirements

Admission to a minor is open to students declared in a bachelor's degree, the A.A.B. or A.A.S. degree or the A.T.S. degree (not Individualized Program major). Students declared only in the A.A. or A.S. degree or the A.T.S. degree in Individualized Program may not declare a minor. Students may not pursue a minor and a major in the same discipline.

## Minor Requirements

Code	Title	Credit Hours
Minor Requirements		
PACS 11001	INTRODUCTION TO CONFLICT MANAGEMENT (DIVD) (KSS)	3
PACS 31002	GENDER, POWER AND CONFLICT	3
PACS 31003	NONVIOLENCE: THEORY AND PRACTICE	3
PACS 31010	CONFLICT THEORY	3
PACS 48080	MEDIATION: THEORY AND TRAINING	3
Minor Electives, choose from the following:		6
PACS 30000	MAY 4 1970 AND ITS AFTERMATH	
PACS 32020	STRATEGIC PLANNING	
PACS 32030	INTERNATIONAL CONFLICT RESOLUTION (DIVG)	
PACS 32040	CROSS-CULTURAL CONFLICT MANAGEMENT (DIVG)	
PACS 33030	CONFLICT IN THE WORKPLACE	

PACS 35050	ENVIRONMENTAL CONFLICT RESOLUTION
PACS 35092	INTERNSHIP IN PEACE AND CONFLICT STUDIES (ELR) <sup>1</sup>
PACS 35095	SPECIAL TOPICS IN PEACE AND CONFLICT STUDIES
PACS 41010	RECONCILIATION VERSUS REVENGE: TRANSITIONAL JUSTICE (DIVG) (WIC)
PACS 44040	NEGOTIATION
PACS 49091	VARIABLE TITLE SEMINAR IN PEACE AND CONFLICT STUDIES

Minimum Total Credit Hours: 21

<sup>1</sup> Maximum 3 credit hours of PACS 35092 may count toward the Peace and Conflict Studies minor. Students may enroll in 1-9 additional hours which will then count towards upper-division credit hours.

## Graduation Requirements

Minimum Minor GPA	Minimum Overall GPA
2.000	2.000

- Students must complete at least two upper-division (30000 or 40000 level) courses in the minor at Kent State on a graded basis (A-F).
- Minimum 6 credit hours in the minor must be upper-division coursework (30000 and 40000 level).
- Minimum 6 credit hours in the minor must be outside of the course requirements for any major or other minor the student is pursuing.
- Minimum 50 percent of the total credit hours for the minor must be taken at Kent State (in residence).

## College of Business Administration

### College of Business Administration

Business Administration Building  
Kent Campus  
330-672-2772  
business.kent.edu

### Academic Advising Offices

Undergraduate  
107 Business Administration Building  
Kent Campus  
330-672-2872  
advisingbus@kent.edu  
business.kent.edu/current#Academic%20Advisng

Graduate  
A310 Business Administration Building  
Kent Campus  
330-672-2282  
gradbus@kent.edu

## Description

The mission of the College of Business Administration is to provide global impact through innovative education, leading research, and meaningful engagement with the business community. We are guided by

our core values of respect, ethics, collaboration and a sense of purpose in all we do.

The College of Business Administration has three centers (Center for Entrepreneurship & Business Innovation, Center for Information Systems and Global Management Center) and offers comprehensive business education from bachelor's to doctoral degrees. Its approach to education blends classroom instruction, experiential learning and education abroad to produce graduates that are exceptionally well prepared for the challenges of a global economy.

The College of Business Administration is dually accredited by the Association to Advance Collegiate Schools of Business (AACSB) in business and accounting.

## Departments

- Department of Accounting
- Department of Economics
- Department of Finance
- Department of Management and Information Systems
- Department of Marketing and Entrepreneurship

## Undergraduate

- Accounting - B.B.A.
- Business Management - B.B.A.
- Computer Information Systems - B.B.A.
- Economics - B.B.A.
- Entrepreneurship - B.B.A.
- Finance - B.B.A.
- General Business - B.B.A.
- Human Resource Management - B.B.A.
- Managerial Marketing - B.B.A.
- Marketing - B.B.A.

## Minors

### Undergraduate

- Accounting
- Business
- Computer Information Systems
- Data Analytics
- Economics
- Entrepreneurship for Business Majors
- Entrepreneurship for Non-Business Majors
- Finance
- Healthcare Systems Management for Business Majors
- Healthcare Systems Management for Non-Business Majors
- Human Resource Management
- International Business for Business Majors
- International Business for Non-Business Majors
- Leadership
- Management for Business Majors
- Management for Non-Business Majors
- Marketing
- Military and Leadership Studies



## Graduate

- Doctoral Accounting
- Doctoral Applied Statistics
- Doctoral Finance
- Doctoral Information Systems
- Doctoral International Business
- Doctoral Management Systems
- Doctoral Marketing

## Certificates

### Undergraduate

- Professional Sales

### Graduate

- Business Analytics

## Graduate Programs

- Accounting - M.S.A.
- Business Administration - Executive M.B.A. - M.B.A.
- Business Administration - M.B.A.
- Business Administration - Ph.D.
- Business Analytics - M.S.
- Economics - M.A.E.

## College of Business Administration Faculty

### Department of Accounting Faculty

- Alam, Pervaiz (1985), Professor, Ph.D, University of Houston, Downtown, 1984
- Altieri, Mark P. (1992), Professor, L.L.M., New York University, 1982
- Bolchalk, James R. (2006), Associate Professor, Ph.D., University of Akron, 1996
- Buchanan, Jessica (2017), Assistant Professor, Ph.D., University of Massachusetts Amherst, 2017
- Fang, Shunlan (2014), Assistant Professor, Ph.D., Temple University, 2013
- Gletsu, David C. (2019), Lecturer
- Laksmana, Indrarini V. (2004), Associate Professor, Ph.D., Georgia State University, 2004
- Li, Wei (2006), Associate Professor & Department Chair, M.B.A., Washington State University, 2001
- Nett, Malinda B. (2009), Assistant Professor, M.Tax., University of Akron, 1995
- Nett, Malinda B. (2009), Assistant Professor
- Rose, John M. (2003), Associate Lecturer, M.B.A., Kent State University, 1994
- Sellers, R. Drew (2011), Associate Professor, D.M., Case Western Reserve University, 2008
- Tietz, Wendy M. (2000), Professor, Ph.D., Kent State University, 2007

### Department of Economics Faculty

- Bagheri, Omid (2017), Assistant Professor, Ph.D., Virginia Polytechnic Institute and State University, 2017

- Barnette, Justin (2011), Assistant Professor, Ph.D., University of Minnesota, Twin Cities, 2012
- Dechenaux, Emmanuel (2004), Professor, Ph.D., Purdue University, 2004
- ElBahnasawy, Nasr G. (2007), Associate Professor, Ph.D., Colorado State University, 2008
- Ellis, Michael A. (1990), Professor, Ph.D., Texas A&M University, Main Campus, 1991
- Engelhardt, Lucas M. (2010), Associate Professor, Ph.D., The Ohio State University, 2010
- Greenhalgh-Stanley, Nadia (2009), Associate Professor, Ph.D., Syracuse University, 2009
- Harris, Jeremiah R. (2014), Assistant Professor, Ph.D., Purdue University, 2014
- Hayduk, Iryna (2014), Assistant Professor, Ph.D., University of Houston, 2014
- Johnson, Eric D. (2005), Associate Professor, Ph.D., University of California, San Diego, 1997
- Kang, Wensheng (2009), Associate Professor, Ph.D., University of Missouri, 2009
- Kocher, Brett (2019), Assistant Professor, Ph.D., Claremont Graduate School, 2019
- Leontieva, Ludmila (2007), Assistant Professor
- Liu, Dandan (2008), Associate Professor, Ph.D., Texas A&M University, Main Campus, 2005
- Mukherjee, Deepraj (2012), Associate Professor, Ph.D., University of Memphis, 2010
- Park, Jooyoun (2009), Associate Professor, Ph.D., University of Michigan, 2009
- Reynolds, Curtis (2007), Associate Professor, Ph.D., University of Michigan, 2007
- Rohlin, Shawn M. (2012), Associate Professor & Director
- Sahajdack, Thomas (2016), Assistant Professor, Ph.D., University of Illinois, 2016
- Shaeye, Abdihafit (2018), Assistant Professor, Ph.D., University of Wisconsin, Milwaukee, 2017
- Williams, Donald R. , Professor & Chair, Ph.D., Northwestern University, 1984
- Wilson, Kathryn S. (1996), Professor & Chair, Ph.D., University of Wisconsin, Madison, 1996

### Department of Finance Faculty

- Baran, Lindsay C. (2011), Associate Professor, Ph.D., University of North Carolina, Charlotte, 2010
- Beier, Lois J. (1985), Associate Professor, J.D., University of Akron, 1980
- Billik, William M. (2009), Assistant Professor
- Deng, Saiying (2019), Associate Professor
- Dennis, Steven A. (2014), Professor & Department Chair, Ph.D., University of Kentucky, 1993
- Pelleg, David S. (2018), Lecturer
- Pu, Xiaoling X. (2008), Associate Professor, Ph.D., University of Massachusetts, Amherst, 2008
- Shynkevich, Andrei (2009), Associate Professor, Ph.D., Louisiana State University, 2009

- Via, Marc (2014), Assistant Professor, Ph.D., University of Alabama, 2014

## Department of Management Information Systems Faculty

- Akpan, Ikpe A. (2012), Associate Professor, Ph.D., Lancaster University, 2006
- Arikan, Asli M. (2014), Assistant Professor, Ph.D., The Ohio State University, 2004
- Arikan, Ilgaz (2014), Assistant Professor
- Berardi, Victor L. (1993), Associate Professor, Ph.D., Kent State University, 1998
- Blundell, Gregory E. (2001), Professor, Ph.D., Kent State University, 2015
- Brandyberry, Alan A. (2000), Associate Professor, D.B.A., Southern Illinois University, Carbondale, 1995
- Datta, Pratim (2007), Associate Professor, Ph.D., Louisiana State University, 2003
- Derubertis, Diane E. (2008), Lecturer, M.Ed., Kent State University, 1983
- Dragan, Natalia (2003), Assistant Professor, Ph.D., Kent State University, 2010
- Dubois, Cathy L. (1992), Associate Professor & Associate Dean, Ph.D., University of Minnesota, Twin Cities, 1991
- Duchon, Michael S. (2000), Assistant Professor, Ed.D., Nova Southeastern University, 2012
- Gomez, Claudia (2013), Associate Professor, Ph.D., New Mexico State University, 2012
- Hodeghatta, Umesh (2019), Associate Professor
- Hogue, Mary B. (2001), Professor, Ph.D., University of Akron, 2000
- Knapp, Deborah K. (1992), Associate Professor, Ph.D., Kent State University, 1994
- Kwak, Dong-Heon (2014), Assistant Professor, Ph.D., University of Wisconsin, Milwaukee, 2014
- Landingham, Velvet L. (2004), Associate Professor, Ph.D., Case Western Reserve University, 2004
- Levashina, Julia (2008), Associate Professor, Ph.D., Purdue University, 2005
- Offodile, Onyebuchi F. (1988), Professor & Department Chair, Ph.D., Texas Tech University, 1984
- Patuwo, Eddy B. (1988), Professor, Ph.D., Virginia Polytechnic Institute and State University, 1989
- Polites, Greta L. (2012), Associate Professor
- Porr, Dean A. (2004), Associate Professor, Ph.D., Regent University, 2004
- Razavi, Rouzbeh (2017), Assistant Professor, Ph.D., University of Essex, 2008
- Riczo, Steve (2014), Lecturer, M.H.A., Xavier University, 1982
- Shanker, Murali S. (1990), Professor
- Steinberg, Geoffrey (1991), Associate Professor, Ph.D., Temple University, 1991
- Vaneet, Vaneet (2019), Assistant Professor, Ph.D., University of Jammu, 2018
- Whitmore, Mark D. (2011), Assistant Professor, Ph.D., The Ohio State University, 1985

- Wu, Chaojiang (2019), Assistant Professor, Ph.D., University of Cincinnati, 2013

## Department of Marketing and Entrepreneurship Faculty

- Bridges, Eileen (1994), Professor, Ph.D., Northwestern University, 1987
- Daniels, Ellen P. (1981), Associate Lecturer, M.B.A., Baldwin-Wallace College, 1979
- Easterling, Denise M. (2009), Lecturer, M.B.A., Ashland University, 2006
- Grimm, Pamela E. (1992), Professor, Ph.D., State University of New York, Buffalo, 1993
- Groening, Christopher (2013), Associate Professor
- Heidler, Mary R. (2011), Associate Lecturer, M.B.A., American University, 1995
- Hisrich, Robert D. (2015), Professor & Director, Ph.D., University of Cincinnati, 1971
- Howell, William P. (1986), Associate Professor, Ph.D., Kent State University, 1996
- Hsieh, Meng-Hua (2018), Assistant Professor, Ph.D., University of Washington, 2013
- Jewell, Robert D. (2004), Professor & Department Chair, Ph.D., Ohio University, 1999
- Knapp-Blay, Kelly A. (2016), Lecturer, Bowling Green State University, 1997
- Lee, Denise M. (2009), Associate Lecturer, M.B.A., Ashland University, 2006
- Liu, Kun (2018), Assistant Professor
- Marks, Lawrence J. (1986), Professor
- Mayo, Michael A. (1985), Professor
- Mohammadi Darani, Milad (2019), Assistant Professor, Ph.D., Texas A&M University, Main Camp, 2019
- Sokira, Walter J. (2003), Lecturer, M.B.A., Kent State University, 1991
- Stettler, Tatiana R. (2015), Assistant Professor, Ph.D., University of Bern, 2014
- Thacker, Donald (1998), Senior Lecturer, M.B.A., Kent State University, 1996
- Wang, Tuo (2004), Associate Professor, Ph.D., University of Pittsburgh, 2004
- Wiggins-Lyndall, Jennifer A. (2006), Associate Professor, Ph.D., University of Wisconsin, Madison, 2006
- Zourrig, Haithem (2016), Assistant Professor, Ph.D., University of Montreal, 2010

## General Degree Requirement for a Bachelor of Business Administration

1. Students must complete at least 50 percent of business credit hours (required for the business degree) in-residence on a Kent State University campus.
2. To earn a College of Business Administration minor, students must complete at least 50 percent of the total required credit hours for the minor at Kent State University, at least 6 credit hours in the minor must be at the upper division (30-40000 level), and at least 6 credit hours in the minor must be different from courses in the student's major and minor(s). Students may not pursue a minor and major in the same discipline.
3. A minimum 2.500 GPA must be earned for all work carried at Kent State University for the accounting, business management, computer

information systems, finance, human resource management, managerial marketing and marketing majors. The general business major requires a minimum overall 2.000 GPA. The economics and entrepreneurship majors require a minimum overall 2.250 GPA. A minimum 2.500 GPA must be earned in the major field (which includes all major requirements and major electives for the accounting, business management, computer information systems, finance, human resource management, managerial marketing and marketing majors). The economics and entrepreneurship majors require a 2.250 major GPA. The general business major requires a 2.000 GPA.

4. Students must complete two measures of outcomes assessment as specified by the College of Business Administration for complete satisfaction of the B.B.A.

## College of Business Administration

### Business administration interdisciplinary (BUS)

#### **BUS 10123 EXPLORING BUSINESS 3 Credit Hours**

(Equivalent to BMRT 11000) An introduction to the basic areas of business with an integrated perspective on how the various areas work together. Technological competencies and communicative skills will be developed. Team building opportunities will be announced. This course is open to any major. This course should be taken sometime during student's first 30 semester hours.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

#### **BUS 10195 SPECIAL TOPICS 1-3 Credit Hours**

(Repeatable for credit)Special topics course that will be offered on a semester basis with different topics and different faculty.

**Prerequisite:** Permission.

**Schedule Type:** Lecture

**Contact Hours:** 1-3 lecture

**Grade Mode:** Standard Letter-IP

#### **BUS 20192 INTERNSHIP IN BUSINESS (ELR) 1-3 Credit Hours**

(Repeatable for credit)Preparation of research report concurrent with on-the-job experience with cooperating business or other organization.

**Prerequisite:** Permission.

**Schedule Type:** Practical Experience

**Contact Hours:** 1-3 other

**Grade Mode:** Standard Letter

**Attributes:** Experiential Learning Requirement

#### **BUS 20195 SPECIAL TOPICS 1-3 Credit Hours**

(Repeatable for credit)Special topics course that will be offered on a semester basis with different topics and different faculty.

**Prerequisite:** Permission.

**Schedule Type:** Lecture

**Contact Hours:** 1-3 lecture

**Grade Mode:** Standard Letter-IP

#### **BUS 20293 VARIABLE TITLE WORKSHOP IN BUSINESS 1-3 Credit Hours**

(Repeatable for credit)Variable topics.

**Prerequisite:** None.

**Schedule Type:** Workshop

**Contact Hours:** 1-3 other

**Grade Mode:** Satisfactory/Unsatisfactory

#### **BUS 30062 ADVANCED PROFESSIONAL DEVELOPMENT 3 Credit Hours**

This course provides an application of professional skills required in the workplace. Specifically, students are exposed to research and analysis methods that drive evidence-based conclusions; preparation and delivery of business proposals and reports; face-to-face and virtual team-building and team interaction; professionalism in job-seeking and networking techniques; etiquette involved in various messaging technologies; ethical decision making as well as other general business acumen, leadership, negotiation, critical thinking, time and self-management, conflict resolution, providing and receiving constructive feedback, etiquette appropriate attire.

**Prerequisite:** BUS 10123 and COMM 15000 and UC 10162; and ENG 11011 or HONR 10197.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

#### **BUS 30187 INTERNATIONAL BUSINESS EXPERIENCE 3 Credit Hours**

This is a two to three week course at an international site that explores business in emerging markets across a full range of functions such as marketing, finance, investment, and business strategies.

**Prerequisite:** ECON 22060 and ECON 22061; and special approval from instructor.

**Schedule Type:** Field Experience

**Contact Hours:** 9 other

**Grade Mode:** Standard Letter

#### **BUS 30195 SPECIAL TOPICS 1-3 Credit Hours**

(Repeatable for credit)Special topics course that will be offered on a semester basis with different topics and different faculty.

**Prerequisite:** Permission.

**Schedule Type:** Lecture

**Contact Hours:** 1-3 lecture

**Grade Mode:** Standard Letter-IP

#### **BUS 30234 INTERNATIONAL BUSINESS 3 Credit Hours**

Learn how international business is affected by the forces of globalization: opportunities, threats and challenges that ensue from hypercompetition, and the institutional checks and balances necessary to prevent complexity deteriorating into chaos.

**Prerequisite:** ECON 22060 and MGMT 24163.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

#### **BUS 40192 INTERNSHIP IN BUSINESS (ELR) 1-3 Credit Hours**

(Repeatable for credit)Preparation of research report concurrent with on-the-job experience with cooperating business or other organization.

**Prerequisite:** Permission.

**Schedule Type:** Practical Experience

**Contact Hours:** 1-3 other

**Grade Mode:** Standard Letter

**Attributes:** Experiential Learning Requirement

#### **BUS 40195 SPECIAL TOPICS 1-3 Credit Hours**

(Repeatable for credit)Special topics course that will be offered on a semester basis with different topics and different faculty.

**Prerequisite:** Permission.

**Schedule Type:** Lecture

**Contact Hours:** 1-3 lecture

**Grade Mode:** Standard Letter-IP

## Business Administration (BAD)

### BAD 60092 MBA INTERNSHIP 3 Credit Hours

(Repeatable for credit) Practical experience with a commercial or non-profit organization under the guidance of a member of the graduate faculty. Periodic progress reports are required with a graduate level quality paper and possible presentation at the end of the course. Students should have a minimum cumulative GPA 3.000 and completed 24 hours in the MBA program.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Practical Experience

**Contact Hours:** 11 other

**Grade Mode:** Standard Letter

### BAD 60095 SPECIAL TOPICS IN BUSINESS ADMINISTRATION 1-3 Credit Hours

(Repeatable for credit) In-depth exposure to selected topics in business administration. Topics will vary depending on instructor and topic of current interest.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 1-3 lecture

**Grade Mode:** Standard Letter

### BAD 60096 INDIVIDUAL INVESTIGATION 2,3 Credit Hours

For M.B.A, M.S. or M.A. candidates who have completed a minimum 12 hours of work of superior quality with permission of the director graduate school of management.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Individual Investigation

**Contact Hours:** 2-3 other

**Grade Mode:** Standard Letter

### BAD 60098 RESEARCH 1-15 Credit Hours

(Repeatable for credit) Research or individual investigation for master's level graduate students. Credits earned may be applied toward meeting degree requirements if the department approves.

**Prerequisite:** Graduate standing.

**Schedule Type:** Research

**Contact Hours:** 1-15 other

**Grade Mode:** Standard Letter

### BAD 67093 WORKSHOP IN ADVANCED BUSINESS TOPICS 1-6 Credit Hours

(Repeatable for a maximum of 6 credit hours) Designed for those MBA Graduates who want advanced education in selected areas of business. A variety of topics could be addressed in this workshop. The topics may include business technology, innovation in business, advanced leadership and a variety of other areas of interest.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Workshop

**Contact Hours:** 1-6 other

**Grade Mode:** Standard Letter-S/U

### BAD 70198 RESEARCH 1-15 Credit Hours

(Repeatable for credit) Research or individual investigation for doctoral level students, or master's students with at least 34 hours of graduate coursework.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Research

**Contact Hours:** 1-15 other

**Grade Mode:** Satisfactory/Unsatisfactory

### BAD 71094 COLLEGE TEACHING 1,2 Credit Hour

(Repeatable for credit) (Cross-listed with BAD 61094) Training, supervision and evaluation in college level instruction. Maximum of 2 hours applicable toward degree.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 1-2 lecture

**Grade Mode:** Satisfactory/Unsatisfactory

### BAD 80091 DOCTORAL SEMINAR 1 Credit Hour

(Repeatable for credit) A continuing seminar for all students in the Ph.D. program which cuts across all areas of functional specialization.

**Prerequisite:** Admission to PhD program.

**Schedule Type:** Seminar

**Contact Hours:** 1 other

**Grade Mode:** Standard Letter

### BAD 80098 RESEARCH 1-3 Credit Hours

(Repeatable for credit) Research or individual investigation for doctoral students who have not yet passed their candidacy examination. Usually research applied toward dissertation.

**Prerequisite:** PhD standing; and special approval.

**Schedule Type:** Research

**Contact Hours:** 1-3 other

**Grade Mode:** Standard Letter

### BAD 80199 DISSERTATION I 15 Credit Hours

(Repeatable for credit) Doctoral dissertation for which registration in at least two semesters is required, first of which will be semester in which dissertation work is begun and continuing until the completion of 30 hours.

**Prerequisite:** Doctoral standing; and special approval.

**Schedule Type:** Dissertation

**Contact Hours:** 15 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

### BAD 80299 DISSERTATION II 15 Credit Hours

(Repeatable for credit) Continuing registration required of doctoral students who have completed the initial 30 hours of dissertation and continuing until all degree requirements are met.

**Prerequisite:** BAD 80199; and doctoral standing.

**Schedule Type:** Dissertation

**Contact Hours:** 15 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

## Executive Master Business Administration (EMBA)

### EMBA 67021 GLOBAL CONDITIONS AND MACROECONOMIC POLICY-EMBA 2 Credit Hours

Analysis of forces determining economic growth, employment, inflation and the global economic environment with emphasis on understanding the business cycle and government stabilization policies.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

### EMBA 67022 MANAGERIAL ECONOMICS-EMBA 2 Credit Hours

Analysis of managerial decision-making within the economic environment with emphasis on the firm's economic decisions under different market and business conditions.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**EMBA 67031 FINANCIAL ACCOUNTING-EMBA 2 Credit Hours**

(Slashed with EMBA 77031) Study of basic principles, concepts and financial reporting for external users and the impact this will have on executive decisions.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**EMBA 67032 ACCOUNTING INFORMATION FOR EXECUTIVES-EMBA 2 Credit Hours**

(Slashed with EMBA 77032) Study of managerial decision-making through planning and control techniques. Major emphasis will be on profit planning, responsibility accounting, cost behavior patterns and application of accounting data to basic planning and control decisions.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**EMBA 67040 OPERATIONS MANAGEMENT-EMBA 2 Credit Hours**

(Slashed with EMBA 77040) This course is designed for executives who have minimal experience with the production or operations phase of business. In this course they will develop skill in defining operating problems, in identifying alternative solutions and selecting the most viable solution.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**EMBA 67041 APPLIED STATISTICAL ANALYSIS-EMBA 2 Credit Hours**

(Slashed with EMBA 77041) An analysis of univariate and multivariate statistical models and the use of these models to solve practical problems. A comparison of classical and neoclassical statistical approaches is also conducted.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**EMBA 67042 GLOBALIZATION AND TECHNOLOGY STRATEGY-EMBA 2 Credit Hours**

(Slashed with EMBA 77042) This course provides managers and executives a critical understanding of various corporate, global and ethical issues related to leading and managing companies and innovations in a global world. This course integrates cross-functional aspects of business in light of geopolitical events, history, technology and strategy.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**EMBA 67043 DYNAMICS OF LEADERSHIP FOR EXECUTIVES-EMBA 2 Credit Hours**

(Slashed with EMBA 77043) Leadership skills including: team development, conflict resolution, negotiation, communications and project development. These skills along with ethical considerations are developed to enhance business decision making.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**EMBA 67051 MARKETING MANAGEMENT-EMBA 2 Credit Hours**

(Slashed with EMBA 77051) The various elements comprising marketing strategy are studied as components of integrated programs directed toward industrial and consumer markets.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**EMBA 67061 FINANCIAL PLANNING AND STRATEGY-EMBA 2 Credit Hours**

(Slashed with EMBA 77061) Problems and approaches to financial decision-making in business enterprises: controlling the allocation of funds among both current and fixed assets, assessing financial needs, and planning the mix and methods of financing.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**EMBA 67062 MONEY AND CAPITAL MARKETS-EMBA 2 Credit Hours**

Analysis and evaluation of the structure, functions and characteristics of domestic and international money and capital markets as the financing mechanism for business and non-business systems.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**EMBA 67071 HUMAN RESOURCE MANAGEMENT-EMBA 2 Credit Hours**

(Slashed with EMBA 77071) The course will deal with some of the major areas of interest to the management of human resources. Special emphasis will be placed on areas of staff planning, such as job analysis and selection.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**EMBA 67082 LEGAL AND SOCIAL IMPACT ON MANAGERIAL DECISION-MAKING-EMBA 2 Credit Hours**

(Slashed with EMBA 77082) Managerial decision-making is examined in terms of the real and potential impacts of the legal, political and social environment of business.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**EMBA 67084 MULTINATIONAL BUSINESS MANAGEMENT-EMBA 2 Credit Hours**

The course covers the management of multinational corporations, including environmental and cultural aspects and the financial marketing production and personnel functions of international operations.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter



**EMBA 67085 EXECUTIVE POLICIES AND PLANNING-EMBA 2 Credit Hours**

(Slashed with EMBA 77085) The course concentrates on the determination of corporate strategy in the business firm and its implementation through appropriate organizational arrangements and procedures.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**EMBA 67090 APPLIED RESEARCH DESIGN-EMBA 1 Credit Hour**

(Slashed with EMBA 77090) Introduction to research design in management. The course deals with the applications of the scientific method to solving organizational problems with a decision making context.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 1 lecture

**Grade Mode:** Standard Letter

**EMBA 67091 SEMINAR IN EXECUTIVE SKILLS DEVELOPMENT-EMBA 1,2 Credit Hour**

(Repeatable for credit) (Slashed with EMBA 77091) A series of seminars developing managerial skills such as communications, leadership teamwork project and time management etc. Offered primarily in first year of program.

**Prerequisite:** Graduate standing.

**Schedule Type:** Seminar

**Contact Hours:** 1-2 other

**Grade Mode:** Standard Letter

**EMBA 67096 APPLIED RESEARCH PROJECT-EMBA 3 Credit Hours**

(Repeatable for credit) A research project based on an applied business or economic problem will be conducted under the direct supervision of a participating faculty member in the EMBA program.

**Prerequisite:** Graduate standing.

**Schedule Type:** Individual Investigation

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**EMBA 67191 SEMINAR IN CURRENT ISSUES FOR EXECUTIVE DEVELOPMENT-EMBA 1,2 Credit Hour**

(Repeatable for credit) (Slashed with EMBA 77191) A series of seminars on current managerial, technological or economic problems facing the executive in today's society. Emphasis on global issues.

**Prerequisite:** Graduate standing.

**Schedule Type:** Seminar

**Contact Hours:** 1-2 other

**Grade Mode:** Standard Letter

**EMBA 77031 FINANCIAL ACCOUNTING-EMBA 2 Credit Hours**

(Slashed with EMBA 67031) Study of basic principles, concepts and financial reporting for external users and the impact this will have on executive decisions.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**EMBA 77032 ACCOUNTING INFORMATION FOR EXECUTIVE ACTION-EMBA 2 Credit Hours**

(Slashed with EMBA 67032) Study of managerial decision-making through planning and control techniques. Major emphasis will be on profit planning, responsibility accounting, cost behavior patterns and application of accounting data to basic planning and control decisions.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**EMBA 77040 OPERATIONS MANAGEMENT-EMBA 2 Credit Hours**

(Slashed with EMBA 67040) This course is designed for executives who have minimal experience with the production or operations phase of business. In this course they will develop skill in defining operating problems in identifying alternative solutions and selecting the most viable solution.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**EMBA 77041 APPLIED STATISTICAL ANALYSIS-EMBA 2 Credit Hours**

(Slashed with EMBA 67041) An analysis of univariate and multivariate statistical models and the use of these models to solve practical problems. A comparison of classical and neoclassical statistical approaches is also conducted.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**EMBA 77042 MANAGEMENT INFORMATION SYSTEMS-EMBA 2 Credit Hours**

(Slashed with EMBA 67042) Synthesis of computer/information technology organization behavior and functional aspects of business to enhance decision making and strategic planning skills of the manager.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**EMBA 77043 DYNAMICS OF LEADERSHIP FOR EXECUTIVE-EMBA 2 Credit Hours**

(Slashed with EMBA 67043) Leadership skills including: team development conflict resolution negotiation communications and project development. These skills along with ethical considerations are developed to enhance business decision making.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**EMBA 77051 MARKETING MANAGEMENT-EMBA 2 Credit Hours**

(Slashed with EMBA 67051) The various elements comprising marketing strategy are studied as components of integrated programs directed toward industrial and consumer markets.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**EMBA 77058 MARKETING STRATEGY AND PLANNING-EMBA 2 Credit Hours**

Focuses on integration of marketing planning into the strategic planning process. Deals mostly with marketing strategy at the level of senior management rather than operations.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**EMBA 77061 FINANCIAL PLANNING AND STRATEGY-EMBA 2 Credit Hours**

(Slashed with EMBA 67061) Problems and approaches to financial decision making in business enterprises: controlling the allocation of funds among both current and fixed assets, assessing financial needs, and planning the mix and methods of financing.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**EMBA 77070 ORGANIZATIONAL ANALYSIS AND DESIGN-EMBA 2 Credit Hours**

The course is concerned with the development of both theoretical and practical concepts related to complex work organizations.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**EMBA 77071 HUMAN RESOURCE MANAGEMENT-EMBA 2 Credit Hours**

(Slashed with EMBA 67071) The course will deal with some of the major areas of interest to the management of human resources. Special emphasis will be placed on areas of staff planning such as job analysis and selection.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**EMBA 77082 LEGAL AND SOCIAL IMPACT ON MANAGERIAL DECISION-MAKING-EMBA 2 Credit Hours**

(Slashed with EMBA 67082) Managerial decision-making is examined in terms of the real and potential impacts of the legal, political and social environment of business.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**EMBA 77085 EXECUTIVE POLICY AND PLANNING-EMBA 2 Credit Hours**

(Slashed with EMBA 67085) The course concentrates on the determination of corporate strategy in the business firm and its implementation through appropriate organizational arrangements and procedures.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**EMBA 77090 APPLIED RESEARCH DESIGN-EMBA 1 Credit Hour**

(Slashed with EMBA 67090) Introduction to research design in management. The course deals with the applications of the scientific method to solving organizational problems with a decision-making context.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 1 lecture

**Grade Mode:** Standard Letter

**EMBA 77091 SEMINAR IN EXECUTIVE SKILLS DEVELOPMENT-EMBA 1,2 Credit Hour**

(Repeatable for credit) (Slashed with EMBA 67091) A series of seminars developing managerial skills such as communications, leadership, teamwork, project and time management, etc. Offered primarily in first year of program.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Seminar

**Contact Hours:** 1-2 other

**Grade Mode:** Standard Letter

**EMBA 77096 APPLIED RESEARCH PROJECT-EMBA 3 Credit Hours**

(Repeatable for credit) A research project based on an applied business or economic problem will be conducted under the direct supervision of a participating faculty member in the EMBA program.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Individual Investigation

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**EMBA 77191 SEMINAR IN CURRENT ISSUES FOR EXECUTIVE DEVELOPMENT-EMBA 1,2 Credit Hour**

(Repeatable for credit) (Slashed with EMBA 67191) A series of seminars on current managerial, technological or economic problems facing the executive in today's society. Emphasis on global issues.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Seminar

**Contact Hours:** 1-2 other

**Grade Mode:** Standard Letter

## Department of Accounting

### Accounting (ACCT)

**ACCT 23020 INTRODUCTION TO FINANCIAL ACCOUNTING 3 Credit Hours**

(Equivalent to ACTT 11000) Introduction to the basic concepts and standards underlying financial accounting. Topics to be covered include revenue recognition, receivables, inventory, long-lived assets, liabilities and stockholders' equity. The impact of transactions on the accounting equation and financial statements (balance sheet, income statement and cash flows) is emphasized.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** TAG Business

**ACCT 23021 INTRODUCTION TO MANAGERIAL ACCOUNTING 3 Credit Hours**

(Equivalent to ACTT 11001) Introduction to managerial accounting concepts and tools that can be used to support decision-making in organizations. Includes coverage of cost systems, cost behavior, cost-volume-profit analysis, relevant costs and budgets.

**Prerequisite:** ACCT 23020 or ACTT 11000.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** TAG Business

**ACCT 33000 FUNDAMENTAL TAX PROCEDURES 3 Credit Hours**

Non-technical presentation of federal income tax laws and regulations as they relate to individuals.

**Prerequisite:** ACCT 23020 or ACTT 11000; and ACCT 23021 or ACTT 11001; and minimum 2.500 overall GPA; not open to students declared in the Accounting major.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ACCT 33001 INTERMEDIATE FINANCIAL ACCOUNTING I 3 Credit Hours**

Review of the accounting cycle; financial statement preparation, accounting for sales, receivables, inventory, current liabilities and long-term assets. Professional accounting research skills are emphasized.

**Prerequisite:** MATH 11012 or MATH 12002; and minimum B- grade in ACCT 23020 (or ACTT 11000) and ACCT 23021 (or ACTT 11001); and minimum C grade in ENG 21011 and COMM 15000 and MATH 11010; and minimum 2.500 overall GPA; and Accounting major or minor.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ACCT 33004 INTRODUCTION TO ACCOUNTING SYSTEMS 3 Credit Hours**

Overview of accounting information systems with emphasis on internal controls. Course explores how the integrity and efficiency of business process are supported by information systems. Interpersonal skills and computer applications are emphasized.

**Prerequisite:** CIS 24053; and MATH 11012 or MATH 12002; and minimum B- grade in ACCT 23021 (or ACTT 11001) and ACCT 23020 (or ACTT 11000); and minimum C grade in ENG 21011, COMM 15000 and MATH 11010; and minimum 2.500 overall GPA; and Accounting major or minor.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ACCT 33010 COST ACCOUNTING 3 Credit Hours**

Cost accounting for manufacturing and service organizations, including cost determination, cost analysis, costing systems, cost-volume-profit analysis, budgeting, cost allocation, activity-based costing, capital investment and performance measurement. Computer application skills are emphasized.

**Prerequisite:** Minimum C grade in ACCT 33001 and ACCT 33004; and minimum 2.500 overall GPA; and Accounting major or minor.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ACCT 33012 INTERMEDIATE FINANCIAL ACCOUNTING II 3 Credit Hours**

Accounting for long-term liabilities, debt and equity investments, leases, pensions and other post-retirement benefits, income tax allocation, owners' equity and statement of cash flows. Professional accounting research skills and written communication skills are emphasized.

**Prerequisite:** Minimum C grade in ACCT 33001 and ACCT 33004; and minimum 2.500 overall GPA; and Accounting major and minor.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ACCT 33061 FINANCIAL REPORTING ISSUES AND ANALYSIS 3 Credit Hours**

Financial analysis and interpretation of issues relative to the balance sheet, income statement and cash flow statement. Topics include assets, liabilities, owner's equity, inter-corporate investments, revenue and expense recognition and ratio analysis. Course may not be used to fulfill requirements in the Accounting major.

**Prerequisite:** ACCT 23021 or ACTT 11001; and minimum 2.500 overall GPA; not open to students declared in Accounting major.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ACCT 33063 COST CONTROL AND ANALYSIS FOR MANAGEMENT 3 Credit Hours**

An in-depth study of cost accounting, focusing on the use of cost accounting information in planning, control and decision-making. Topics include cost terminology, costing systems, cost-volume-profit analysis, budgeting, cost allocation, activity-based costing, variance analysis, ethics and performance measurement. Course may not be used to fulfill requirements in the Accounting major.

**Prerequisite:** ACCT 23021 or ACTT 11001; and minimum 2.500 overall GPA; not open to students declared in Accounting major.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ACCT 43009 ACCOUNTING DATA ANALYTICS 3 Credit Hours**

(Slashed with ACCT 53009) Students apply data analytical concepts, tools and techniques in an accounting context. Course explores how to acquire, cleanse and analyze accounting and other data in accounting-related settings. Students complete cases in financial accounting, managerial accounting, auditing and tax. Critical thinking and application of both general and accounting-specific data analytics software are emphasized.

**Prerequisite:** Minimum C grade in ACCT 33010 and ACCT 33012; and minimum 2.500 overall GPA; and Accounting major.

**Corequisite:** ACCT 43010.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ACCT 43010 PRINCIPLES OF AUDITING (ELR) (WIC) 3 Credit Hours**

Integration of conceptual and practical aspects of auditing, importance of strong internal controls is stressed. Ethical decision making, written and verbal communication and interpersonal skills are emphasized.

**Prerequisite:** Minimum C grade in ACCT 33010 and ACCT 33012; and minimum 2.500 overall GPA; and Accounting major.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Experiential Learning Requirement, Writing Intensive Course

**ACCT 43013 ADVANCED MANAGEMENT ACCOUNTING 3 Credit Hours**

(Slashed with ACCT 53013) Advanced contemporary topics relating to the use of accounting information in managerial decision-making. Topical coverage varies from budgeting, cost behavior, corporate governance, executive compensation, tax strategies to sticky costs. Accounting research, verbal and written communication, ethical decision-making and analytical skills are emphasized.

**Prerequisite:** Minimum C grade in ACCT 33010; and minimum 2.500 overall GPA and Accounting major.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ACCT 43020 ADVANCED FINANCIAL ACCOUNTING 3 Credit Hours**

(Slashed with ACCT 53020) Conceptual and practical issues surrounding: (1) financial reporting for investment activities of businesses when one firm possesses significant influence or control over another; (2) accounting for international business transactions, including the use of derivatives for hedging foreign exchange risk; and (3) translating foreign currency financial statements of foreign operations. Professional accounting research and written communication skills are emphasized.

**Prerequisite:** Minimum C grade in ACCT 33001 and ACCT 33004 and ACCT 33010 and ACCT 33012; and minimum 2.500 overall GPA; and Accounting major.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ACCT 43031 INCOME TAXATION I - INDIVIDUAL TAXATION 3 Credit Hours**

Introduction to Federal income tax for individual taxpayers. Detailed analysis recognition rules for individuals. Overview of tax rules related to entity choice for business owners.

**Prerequisite:** Minimum C grade in ACCT 33001 and ACCT 33004; and minimum 2.500 overall GPA; and Accounting major.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ACCT 43033 INCOME TAXATION II - ENTITY TAXATION 3 Credit Hours**

(Slashed with ACCT 53033) Federal taxation of business entities, including income taxation of C corporations, partnerships, S corporations and trusts and estates; estate and gift taxation; tax administration and practice. Professional accounting research and written communication skills are emphasized.

**Prerequisite:** ACCT 43031; and minimum 2.500 overall GPA; and Accounting major.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ACCT 43034 NONPROFIT ACCOUNTING AND AUDITING 3 Credit Hours**

(Slashed with ACCT 53034) Accounting, financial reporting and auditing issues and techniques that are unique to government and nonprofit entities. Professional accounting research, written communication and ethical decision-making skills are emphasized.

**Prerequisite:** Minimum C grade in ACCT 33001 and ACCT 33004 and ACCT 33010 and ACCT 33012; and minimum 2.500 overall GPA; and Accounting major.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ACCT 43043 INTERNAL AUDIT AND FORENSIC ACCOUNTING 3 Credit Hours**

(Slashed with ACCT 53043) Course introduces students to the internal audit profession and the internal audit process. Topics include the definition of internal auditing, the International Professional Practices Framework (IPPF), risk, governance and control issues and conducting internal audit engagements. Provides an overview of forensic accounting, including the introduction to fraud in business, the circumstances in which it arises, techniques for preventing, detecting, measuring fraud and the skills necessary to respond and resolve fraud once discovered. Students apply the concepts to analyze cases in internal audit and forensic accounting. Written and oral communication skills are emphasized.

**Prerequisite:** Minimum C grade in ACCT 43010.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ACCT 43048 INTERNAL AUDIT AND FORENSIC AUDITING (KMCP) (KMCR) 3,6 Credit Hours**

TEST Prerequisite: TEST Pre/corequisites: TEST Corequisites: TEST

**Schedule Type:** Emporium, International Experience, Lecture, Studio

**Contact Hours:** 3-6 lecture

**Grade Mode:** Standard Letter

**Attributes:** Kent Core Composition, Kent Core Mathematics and Critical Reasoning

**ACCT 43087 INTERNATIONAL ACCOUNTING EXPERIENCE 3 Credit Hours**

(Slashed with ACCT 53087) Firsthand exposure to international businesses and organizations generally relating to business and specifically relating to accounting and finance. Includes pre-trip orientation sessions, visits to international businesses and organizations, and opportunities for cultural activities.

**Prerequisite:** ACCT 23020 and ACCT 23021; and Accounting major; and special approval.

**Schedule Type:** Field Experience

**Contact Hours:** 9 other

**Grade Mode:** Standard Letter

**ACCT 43092 ACCOUNTING INTERNSHIP (ELR) 3 Credit Hours**

Study of activities related to concurrent on-the-job experience with cooperating industrial and public accounting firms. Students must have a minimum 3.000 GPA in all attempts of ACCT courses to register.

**Prerequisite:** Minimum C grade in ACCT 33001 or ACCT 33004; and minimum 3.000 overall GPA; and Accounting major; and junior standing; and special approval.

**Schedule Type:** Practical Experience

**Contact Hours:** 9 other

**Grade Mode:** Satisfactory/Unsatisfactory

**Attributes:** Experiential Learning Requirement

**ACCT 43093 VARIABLE TITLE WORKSHOP IN ACCOUNTING 1-3 Credit Hours**

(Repeatable for credit) Topic to be determined when a specific course is proposed for a particular term.

**Prerequisite:** Accounting major; and senior standing; and special approval.

**Schedule Type:** Workshop

**Contact Hours:** 1-3 other

**Grade Mode:** Satisfactory/Unsatisfactory

**ACCT 43095 SPECIAL TOPICS: ACCOUNTING 3 Credit Hours**

(Repeatable for credit) (Slashed with ACCT 53095) Offered periodically with different topics and different faculty involved.

**Prerequisite:** Accounting major; and senior standing; special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ACCT 43096 INDIVIDUAL INVESTIGATION IN ACCOUNTING 1-3 Credit Hours**

(Repeatable for credit) Individual research into a current accounting topic.

**Prerequisite:** Accounting major; and senior standing; and special approval.

**Schedule Type:** Individual Investigation

**Contact Hours:** 3-9 other

**Grade Mode:** Standard Letter

**ACCT 53009 ACCOUNTING DATA ANALYTICS 3 Credit Hours**

(Slashed with ACCT 43009) Students apply data analytical concepts, tools and techniques in an accounting context. Course explores how to acquire, cleanse and analyze accounting and other data in accounting-related settings. Students complete cases in financial accounting, managerial accounting, auditing and tax. Critical thinking and application of both general and accounting-specific data analytics software are emphasized.

**Prerequisite:** Minimum C grade in ACCT 33010 and ACCT 33012; and minimum 2.500 overall GPA; and Accounting major; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ACCT 53013 ADVANCED MANAGEMENT ACCOUNTING 3 Credit Hours**

(Slashed with ACCT 43013) Advanced contemporary topics relating to the use of accounting information in managerial decision-making. Topical coverage varies from budgeting, cost behavior, corporate governance, executive compensation, tax strategies to sticky costs. Accounting research, verbal and written communication, ethical decision-making and analytical skills are emphasized.

**Prerequisite:** ACCT 33010; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ACCT 53014 ADVANCED ACCOUNTING SYSTEMS 3 Credit Hours**

Analysis, design and implementation of accounting information systems with a focus on creating effective business processes and internal controls. Students work with enterprise resource planning, ERP, software to deepen their understanding of key concepts. Introduction to retrieving and analyzing data via Structured Query Language (SQL). Enhanced statistical analysis, interpersonal skills and written communications skills are emphasized.

**Prerequisite:** ACCT 33004; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ACCT 53020 ADVANCED FINANCIAL ACCOUNTING 3 Credit Hours**

(Slashed with ACCT 43020) Conceptual and practical issues surrounding: (1) financial reporting for investment activities of businesses when one firm possesses significant influence or control over another; (2) accounting for international business transactions, including the use of derivatives for hedging foreign exchange risk; and (3) translating foreign currency financial statements of foreign operations. Professional accounting research and written communication skills are emphasized.

**Prerequisite:** Minimum C grade in ACCT 33012 and ACCT 43031; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ACCT 53033 INCOME TAXATION II - ENTITY TAXATION 3 Credit Hours**

(Slashed with ACCT 43033) Federal taxation of business entities including income taxation of C corporations, partnerships, S corporations and trusts and estates; estate and gift taxation; tax administration and practice. Professional accounting research and written communication skills are emphasized.

**Prerequisite:** ACCT 43031; and minimum 2.500 overall GPA; and Accounting major; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ACCT 53034 NONPROFIT ACCOUNTING AUDITING 3 Credit Hours**

(Slashed with ACCT 43034) Accounting, financial reporting and auditing issues and techniques that are unique to government and nonprofit entities. Professional accounting research, written communication and ethical decision-making skills are emphasized.

**Prerequisite:** ACCT 33012; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter



**ACCT 53043 INTERNAL AUDIT AND FORENSIC ACCOUNTING 3 Credit Hours**

(Slashed with ACCT 43043) Course introduces students to the internal audit profession and the internal audit process. Topics include the definition of internal auditing, the International Professional Practices Framework (IPPF), risk, governance and control issues and conducting internal audit engagements. Provides an overview of forensic accounting, including the introduction to fraud in business, the circumstances in which it arises, techniques for preventing, detecting, measuring fraud and the skills necessary to respond and resolve fraud once discovered. Students apply the concepts to analyze cases in internal audit and forensic accounting. Written and oral communication skills are emphasized.

**Prerequisite:** Minimum C grade in ACCT 43010; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ACCT 53087 INTERNATIONAL ACCOUNTING EXPERIENCE 3 Credit Hours**

(Slashed with ACCT 43087) Firsthand exposure to international businesses and organizations generally relating to business and specifically relating to accounting and finance. Includes pre-trip orientation sessions, visits to international businesses and organizations, and opportunities for cultural activities.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Field Experience

**Contact Hours:** 9 other

**Grade Mode:** Standard Letter

**ACCT 53095 SPECIAL TOPICS: ACCOUNTING 3 Credit Hours**

(Repeatable for credit) (Slashed with ACCT 43095) Offered periodically with different topics and different faculty involved.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ACCT 63022 PROFESSIONAL ISSUES AND ETHICS IN ACCOUNTING 3 Credit Hours**

(Slashed with ACCT 73022) Students investigate issues confronting the accounting profession today by reviewing the past, examining the present and looking into the future. Topics covered include history and characteristics of the profession, regulation of the profession, ethical challenges facing accountants and auditors, fraud and the future of the profession. Professional accounting research and verbal and written communication emphasized.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ACCT 63024 INFORMATION TECHNOLOGY AUDIT: CONTROLS AND ANALYTICS 3 Credit Hours**

(Slashed with ACCT 73024) Students apply data analytics to the audit of controls and security of accounting information systems. Includes examining the role of the IT audit function and applicable auditing standards; identifying system risks and evaluating controls in Enterprise Resource Planning (ERP) systems. Data analytics, writing and professional ethics are emphasized.

**Prerequisite:** ACCT 43010; and ACCT 53014; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ACCT 63025 ANALYSIS AND VALUATION OF BUSINESS USING FINANCIAL STATEMENTS 3 Credit Hours**

(Slashed with ACCT 73025) Develops a conceptual framework of how firms generate value and how firm value is captured in financial statements. The role of financial analysts and the regulatory framework in the financial and credit markets are discussed. Students learn how to derive firm value using valuations models and financial statements and non-financial data.

**Prerequisite:** ACCT 33001 or ACCT 63037; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ACCT 63030 INTERNATIONAL ACCOUNTING 3 Credit Hours**

(Slashed with ACCT 73030) Study of reporting in United States capital markets for domestic and foreign firms; evaluation of differences in accounting, auditing and financial reporting between nations; impact of international operations on accounting for decision making; impact of international financial reporting standards (IFRS). Interpersonal skills emphasized.

**Prerequisite:** ACCT 33012; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ACCT 63031 ADVANCED AUDITING THEORY AND PRACTICE 3 Credit Hours**

(Slashed with ACCT 73031) Advanced conceptual and practical understanding of audit methodology and role of auditors. Focus on use of professional judgment in applying auditing standards on ethical considerations and on fraud. Review of current trends and developments in the public accounting profession. Written communication and ethical decision making emphasized.

**Prerequisite:** ACCT 43010; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ACCT 63032 ACCOUNTING THEORY, HISTORY AND INSTITUTIONS 3 Credit Hours**

(Slashed with ACCT 73032) Survey of history of accounting and development of principles, followed by intensive study of theoretical problems related to determination of income and presentation of financial position. Written communication and ethical decision-making skills covered.

**Prerequisite:** ACCT 33012; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ACCT 63037 FINANCIAL ACCOUNTING FOR DECISION MAKING 2 Credit Hours**

(Slashed with ACCT 73037) In-depth study of financial accounting concepts and basic financial statements. Includes an examination of the significant accounting issues affecting financial reporting and their impact on analysis and interpretation of financial information for decision-making. Course may not be used to fulfill requirements in the Master of Science in Accounting degree.

**Prerequisite:** Graduate standing; open only to students declared in the MBA and MA degrees.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**ACCT 63038 MANAGERIAL ACCOUNTING FOR DECISION MAKING 2 Credit Hours**

(Slashed with ACCT 73038) An in-depth study of cost accounting concepts and cost behavior for measuring product and service costs, pricing products and services, planning and controlling business operations and making business decisions. Course may not be used to fulfill requirements in the Master of Science in Accounting degree.

**Prerequisite:** ACCT 63037; and graduate standing; open only to students declared in the MBA and MA degrees.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**ACCT 63042 TAXATION OF CORPORATIONS AND SHAREHOLDERS 3 Credit Hours**

An in-depth study of tax law that pertains to corporations and shareholders; corporate formation, distributions, liquidation and reorganization. Tax research primarily through the Internal Revenue Code and Treasury Regulations. Verbal and written communication skills are emphasized.

**Prerequisite:** ACCT 43031; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ACCT 63043 TAXATION OF PARTNERSHIPS AND PARTNERS 3 Credit Hours**

An in-depth study of formation, operation, termination and liquidation and other special problems of partnerships and S corporations. Tax research primarily through the Internal Revenue Code and Treasury Regulations. Verbal and written communication skills are emphasized.

**Prerequisite:** ACCT 53033; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ACCT 63045 TAX RESEARCH AND PLANNING 3 Credit Hours**

Introduction to tax research methodology and tax preparer standards, with an emphasis on effectively communicating tax outcomes via written communications.

**Prerequisite:** ACCT 53033; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ACCT 63092 INTERNSHIP 3 Credit Hours**

(Repeatable for credit) Supervised practical experience with public accounting firm, corporation, governmental or not-for-profit organization. Periodic reports required. Students must have a 3.000 GPA in all attempted ACCT courses to register.

**Prerequisite:** Minimum C grade in ACCT 33010 and ACCT 33012; and minimum 3.000 overall GPA; and Accounting major; and graduate standing; and special approval.

**Schedule Type:** Practical Experience

**Contact Hours:** 9 other

**Grade Mode:** Satisfactory/Unsatisfactory

**ACCT 63093 VARIABLE TITLE WORKSHOP IN ACCOUNTING 1-3 Credit Hours**

(Repeatable for credit) Topic to be determined when a specific course is proposed for a particular term.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Workshop

**Contact Hours:** 1-3 other

**Grade Mode:** Satisfactory/Unsatisfactory

**ACCT 63098 RESEARCH IN ACCOUNTING 1-3 Credit Hours**

(Repeatable for credit) (Slashed with ACCT 73098) Review of sources, techniques and methodology. Individually selected topic is investigated and reported in formal paper.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Research

**Contact Hours:** 1-3 other

**Grade Mode:** Standard Letter

**ACCT 73022 PROFESSIONAL ISSUES AND ETHICS IN ACCOUNTING 3 Credit Hours**

(Slashed with ACCT 63022) Students investigate issues confronting the accounting profession today by reviewing the past, examining the present and looking into the future. Topics covered include history and characteristics of the profession, regulation of the profession, ethical challenges facing accountants and auditors, fraud and the future of the profession. Professional accounting research and verbal and written communication emphasized.

**Prerequisite:** Doctoral standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ACCT 73024 INFORMATION TECHNOLOGY AUDIT: CONTROLS AND ANALYTICS 3 Credit Hours**

(Slashed with ACCT 63024) Students apply data analytics to the audit of controls and security of accounting information systems. Includes examining the role of the IT audit function and applicable auditing standards; identifying system risks and evaluating controls in Enterprise Resource Planning (ERP) systems. Data analytics, writing and professional ethics are emphasized.

**Prerequisite:** ACCT 43010; and ACCT 53012; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ACCT 73025 ANALYSIS AND VALUATION OF BUSINESS USING FINANCIAL STATEMENTS 3 Credit Hours**

(Slashed with ACCT 63025) Develops a conceptual framework of how firms generate value and how firm value is captured in financial statements. The role of financial analysts and the regulatory framework in the financial and credit markets are discussed. Students learn how to derive firm value using valuations models and financial statements and non-financial data.

**Prerequisite:** ACCT 33001 or ACCT 63037; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ACCT 73030 INTERNATIONAL ACCOUNTING 3 Credit Hours**

(Slashed with ACCT 63030) Study of reporting in United States capital markets for domestic and foreign firms; evaluation of differences in accounting, auditing and financial reporting between nations; impact of international operations on accounting for decision making; impact of international financial reporting standards (IFRS). Interpersonal skills emphasized.

**Prerequisite:** ACCT 33012; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ACCT 73031 ADVANCED AUDITING THEORY AND PRACTICE 3 Credit Hours**

(Slashed with ACCT 63031) Advanced conceptual and practical understanding of audit methodology and role of auditors. Focus on use of professional judgment in applying auditing standards, on ethical considerations, and on fraud. Review of current trends and developments in the public accounting profession. Written communication and ethical decision making emphasized.

**Prerequisite:** ACCT 43010; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ACCT 73032 ACCOUNTING THEORY, HISTORY AND INSTITUTIONS 3 Credit Hours**

(Slashed with ACCT 63032) Survey of history of accounting and development of principles, followed by intensive study of theoretical problems related to determination of income and presentation of financial position. Written communication and ethical decision-making skills covered.

**Prerequisite:** ACCT 33012; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ACCT 73037 FINANCIAL ACCOUNTING FOR MANAGERIAL ACTION 3 Credit Hours**

(Slashed with ACCT 63037) In-depth study of financial accounting concepts and basic financial statements. Includes an examination of the significant accounting issues affecting financial reporting and their impact on analysis and interpretation of financial information for decision-making.

**Prerequisite:** Doctoral standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ACCT 73038 ACCOUNTING FOR MANAGERIAL ACTION AND EVALUATION 3 Credit Hours**

(Cross-listed with ACCT 63038) Review of cost accounting concepts and cost behavior. In depth study of analyzing costs for pricing and product mix decisions activity based cost systems budgeting planning and control issues methods of remaining competitive in a global environment compensation issues.

**Prerequisite:** Doctoral standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ACCT 73093 VARIABLE TITLE WORKSHOP IN ACCOUNTING 1-3 Credit Hours**

(Repeatable for credit) Topic be determined when a specific course is proposed for a particular term.

**Prerequisite:** Doctoral standing; and special approval.

**Schedule Type:** Workshop

**Contact Hours:** 1-3 other

**Grade Mode:** Satisfactory/Unsatisfactory

**ACCT 73098 RESEARCH IN ACCOUNTING 1-3 Credit Hours**

(Repeatable for credit) (Slashed with ACCT 63098) Review of sources, techniques and methodology. Individually selected topic is investigated and reported in formal paper.

**Prerequisite:** Accounting major; and doctoral standing.

**Schedule Type:** Research

**Contact Hours:** 1-3 other

**Grade Mode:** Standard Letter-IP

**ACCT 83031 AUDITING ISSUES 3 Credit Hours**

Course provides doctoral students with an opportunity to broaden their understanding of financial and operational auditing theory and research.

**Prerequisite:** ACCT 43010; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ACCT 83033 MANAGERIAL ACCOUNTING ISSUES 3 Credit Hours**

Course provides an opportunity to survey major research topics in managerial accounting. Students develop a sound conceptual basis for reading, interpreting, analyzing, criticizing and conducting scholarly research on managerial accounting issues. Reading list includes research papers from various managerial accounting research areas and research methods.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ACCT 83037 FINANCIAL ACCOUNTING ISSUES 3 Credit Hours**

Course focuses on theoretical, analytical and empirical research in financial accounting and reporting. Emerging issues in financial accounting and reporting are examined.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ACCT 83038 BASIC ACCOUNTING RESEARCH METHODOLOGY 3 Credit Hours**

Course introduces students to basic concepts in accounting research and to the application of research methods in various accounting areas (e.g., financial, managerial, auditing and information systems).

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ACCT 83091 SEMINAR-SELECTED ACCOUNTING TOPICS 3 Credit Hours**

(Repeatable for credit) Topics vary with each offering.

**Prerequisite:** Doctoral standing; and special approval.

**Schedule Type:** Seminar

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**ACCT 83098 RESEARCH IN ACCOUNTING 3 Credit Hours**

Students develop and present a paper on an original accounting research topic under the supervision of faculty members. May extend beyond the semester.

**Prerequisite:** Doctoral standing; and special approval.

**Schedule Type:** Research

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

## Department of Economics

### Economics (ECON)

#### ECON 12060 PERSONAL FINANCE 3 Credit Hours

Examines economic issues and problems of everyday life. Goal is to enable individuals to analyze their personal finances in order to learn how to get the most out of their income, increase income through a better understanding of possible investments, and protect what they have through selecting appropriate insurance. Topics covered include budgeting and financial planning, federal income taxes, insurance, borrowing, and investment principles and strategies.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

#### ECON 22060 PRINCIPLES OF MICROECONOMICS (KSS) 3 Credit Hours

Course discusses decision-making by buyers, sellers, and governments and how their interaction affects market determination of prices. Students compare outcomes and firm decisions in different market structures. Students develop tools to examine social problems such as poverty, crime, pollution and international relations, as well as make better decisions in their own lives.

**Prerequisite:** Minimum 45 ALEKS math score; or minimum 22 ACT math score; or minimum 530 SAT math score; or MATH 00023 or any higher level MATH course.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Kent Core Social Sciences, TAG Social and Behavioral Sciences, Transfer Module Social Sciences

#### ECON 22061 PRINCIPLES OF MACROECONOMICS (KSS) 3 Credit Hours

Principles and policies affecting aggregate production, consumption, investment and government expenditures. Includes role of money, the banking system, inflation, unemployment and economic growth.

**Prerequisite:** ECON 22060.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Kent Core Social Sciences, TAG Social and Behavioral Sciences, Transfer Module Social Sciences

#### ECON 32025 MONEY, CREDIT AND BANKING 3 Credit Hours

Organization of our money, credit and banking system principles and problems of monetary policy.

**Prerequisite:** ECON 22060 and 22061.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

#### ECON 32040 INTERMEDIATE MICROECONOMIC THEORY AND APPLICATIONS 3 Credit Hours

The study of individual choices under conditions of relative scarcity, and their consequences for prices and the allocation of resources in the economic system. Develops the analytical and theoretical tools pertinent in determining how scarce resources are allocated among competing wants and demonstrates how these tools are used in real world applications.

**Prerequisite:** ECON 22060 and 22061.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

#### ECON 32041 INTERMEDIATE MACROECONOMIC THEORY AND POLICY 3 Credit Hours

This course analyzes key drivers of an economy's GDP, consumption, investment and interest rates. The class will examine economic growth and how it can be impacted by public policy. Students will understand the uses and limitations of a macroeconomic model and will be exposed to the two main schools of thought in macroeconomics. National and international data will be used to better understand these concepts.

**Prerequisite:** ECON 22060 and 22061.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

#### ECON 32050 APPLIED ECONOMETRICS I (ELR) 3 Credit Hours

The course provides an introduction to the use of statistical analysis in economics. The initial part of the course reviews relevant concepts from probability and statistics. The second course segment focuses on linear regression analysis and the properties of regression estimators. The final course segment discusses extensions of the linear model, and considers problems that may arise in application including omitted variables, nonlinearity, measurement error, sample selection, heteroscedasticity and causality. The SAS statistical software package is used throughout the course for data analysis. Over the second half of the course, students complete an empirical project which requires students to connect the course concepts to the analysis of an economic policy question in a real world data set.

**Prerequisite:** MATH 11012 or MATH 12002; and ECON 22060; and MGMT 24056 or MATH 10041 or MATH 20011.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Experiential Learning Requirement

#### ECON 32051 APPLIED ECONOMETRICS II 3 Credit Hours

The course provides a continuation of Applied Econometrics I, extending the basic linear regression models to more advanced models using cross-sectional, panel or time series data. The initial part of the course focuses on models for discrete and limited dependent variables. The second course segment addresses estimation methods for panel data. The final course segment provides an overview of time series estimation with an emphasis on forecasting in economic data.

**Prerequisite:** ECON 32050.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter



**ECON 32070 LABOR PROBLEMS 3 Credit Hours**

Surveys of the major institutions, features and functioning of the labor market as well as some of its outstanding problems. Does not count toward economics major or minor. Not open to students who have completed ECON 42072.

**Prerequisite:** ECON 22060 and 22061.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ECON 32082 INTRODUCTION TO MANAGERIAL ECONOMICS 3 Credit Hours**

Combines economic theory and quantitative analysis to develop resource-allocation decision-making skills which enable managers to evaluate problems, identify possible solutions and finally implement and monitor the best alternative to accomplish their stated objectives. Covers such topics as supply and demand, consumer theory, production, costs, contracts, game theory, principal-agent problems, and the basic economic models of perfect competition, oligopoly, monopolistic competition and monopoly. Cannot be taken by economics majors. Not open to students who have completed ECON 32040.

**Prerequisite:** ECON 22060.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ECON 32083 THE ECONOMICS OF POVERTY (DIVD) 3 Credit Hours**

Nature and causes of poverty in United States. Analysis of impact of poverty upon economy and study of measures both real and potential for alleviating it.

**Prerequisite:** ECON 22060.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Diversity Domestic

**ECON 32084 ECONOMICS OF THE ENVIRONMENT 3 Credit Hours**

Examines economic theory of environmental and resource economics in a fashion that is understandable by students with varied backgrounds in economics. Emphasis on microeconomic theory and its application to environmental issues. Topics covered include 'market failure' and its impact on the environment; cost benefit analysis; and input-output analysis. Designed for those interested in the environment or who may be planning careers in environmental or natural sciences.

**Prerequisite:** ECON 22060.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ECON 42050 DATA ACQUISITION, PREPARATION AND VISUALIZATION 3 Credit Hours**

(Slashed with ECON 52050) Accessing and collecting data from existing sources (databases and raw data), transformation of raw data into formats that can be used for final analysis, techniques for presentation and visualization of data, predictive analytics using machine learning and cross validation. Students will perform some work in SAS but will also be introduced to the R statistical language.

**Prerequisite:** MGMT 24056.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ECON 42065 PROBLEMS OF MONETARY AND FISCAL POLICY 3 Credit Hours**

Analysis of objectives, techniques and economic effects of monetary and fiscal policies.

**Prerequisite:** ECON 32041.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ECON 42066 ECONOMICS OF ENTREPRENEURSHIP 3 Credit Hours**

(Slashed with ECON 52066) This course presents a wide-ranging overview of the place of economics in entrepreneurship, with a special focus on how economic research is conducted to study the determinants of entrepreneurship.

**Prerequisite:** ECON 22060.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ECON 42068 INDUSTRIAL ORGANIZATION: FIRMS AND STRATEGY 3 Credit Hours**

(Slashed with ECON 52068) Theoretical, empirical and critical examination of structure, operation and performance of industrial markets in American economy.

**Prerequisite:** ECON 32040.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ECON 42070 GAME THEORY 3 Credit Hours**

Introduction to game theory and its application to economics. Analysis of strategic behavior by economic agents using equilibrium concepts from non-cooperative game theory.

**Prerequisite:** ECON 22060 and ECON 22061.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ECON 42072 LABOR ECONOMICS: WORK AND PAY 3 Credit Hours**

(Slashed with ECON 52072) The economic analysis of the decisions of workers and firms in determination of wages and employment. Topics include labor supply decisions, marginal productivity theory, discrimination, demand for education, effects of trade unions, immigration and growing wage inequality.

**Prerequisite:** ECON 32040.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ECON 42075 INTERNATIONAL ECONOMIC RELATIONS 3 Credit Hours**

Principles, problems and policies of international economic relations with extensive references to the United States, Western Europe, Latin America and former communist countries. Covers international aspects of interdependency, cooperation and multinational institutions.

**Prerequisite:** ECON 22060 and 22061.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter



**ECON 42076 ECONOMIC DEVELOPMENT 3 Credit Hours**

(Slashed with ECON 52076) Analysis of nature of significance of barriers to and future potential for economic development of a nation. Special emphasis on theories and strategic factors pertaining to economic growth.

**Prerequisite:** ECON 22060 and 22061.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ECON 42079 EUROPEAN ECONOMIC ISSUES 3 Credit Hours**

(Slashed with ECON 52079) This course examines current economic issues in the European Union, including the monetary union and Euro, unemployment, immigration, health care, social security, poverty and inequality, and plans for expansion. The historical development and structure of the EU will also be covered and the role of cultural influences will be explored. In some semesters the course includes a required trip to visit European institutions over the Spring Break, at an additional fee.

**Prerequisite:** ECON 22060 and ECON 22061; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ECON 42080 REGIONAL ECONOMICS 3 Credit Hours**

(Slashed with ECON 52080) Examines techniques of regional economic analysis to promote understanding of interregional disparities in developed nations and suggests policy alternatives for alleviating problems arising from disparities.

**Prerequisite:** ECON 22060 and 22061.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ECON 42081 URBAN ECONOMICS: CITIES AND HOUSING 3 Credit Hours**

(Slashed with ECON 52081) Application of economic principles to urban spatial patterns, economic development and public policy in housing, transportation, pollution, welfare, etc.

**Prerequisite:** ECON 22060 and 22061.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ECON 42085 PUBLIC ECONOMICS: GOVERNMENT AND POLICY 3 Credit Hours**

(Slashed with ECON 52085) Examination of the role of government in the economy, including market failures, the efficiency and equity of taxation, government involvement in health care, education, and income distribution, and current government policy issues.

**Prerequisite:** ECON 22060.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ECON 42086 ECONOMICS OF HEALTH CARE 3 Credit Hours**

(Slashed with ECON 52086) Overall objective is to use economic analysis to understand and evaluate what has and is happening to the health care profession and current health care policies under consideration. Topics include issues such as Medicare, health care reform, HMOs and increasing costs in health care.

**Prerequisite:** ECON 22060.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ECON 42187 INTERNATIONAL ECONOMIC EXPERIENCE 3 Credit Hours**

Firsthand exposure to international economics. Includes pre-trip orientation sessions, visits to international businesses and organizations, and opportunities for cultural activities.

**Prerequisite:** Economics major or minor; and junior standing; and special approval.

**Schedule Type:** Field Experience

**Contact Hours:** 9 other

**Grade Mode:** Standard Letter

**ECON 42191 SENIOR SEMINAR IN ECONOMICS (WIC) 3 Credit Hours**

Advanced investigation of selected topics in economic analysis and issues in economic policy.

**Prerequisite:** ECON 32050, ECON 32040 and ECON 32041 with a minimum C- grade.

**Schedule Type:** Seminar

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**Attributes:** Writing Intensive Course

**ECON 42291 VARIABLE CONTENT SEMINAR IN ECONOMICS 1-4 Credit Hours**

(Repeatable for a maximum of 12 hours) (Slashed with ECON 52291) Various special seminars will be announced in the schedule of classes under this course number.

**Prerequisite:** Permission.

**Schedule Type:** Seminar

**Contact Hours:** 1-4 other

**Grade Mode:** Standard Letter

**ECON 42292 INTERNSHIP IN ECONOMICS (ELR) 3 Credit Hours**

(Repeatable for credit) Supervised practical experience in economics. May count toward the economics major electives or as a business elective.

**Prerequisite:** At least two of the following courses: ECON 32040, ECON 32041 or ECON 32050; a minimum 2.250 overall GPA; and economics major; and special approval.

**Schedule Type:** Practical Experience

**Contact Hours:** 9 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**Attributes:** Experiential Learning Requirement

**ECON 42293 VARIABLE TOPIC WORKSHOP IN ECONOMICS 1-6 Credit Hours**

(Repeated registration permitted when topic varies; repeatable for a total of 18 hours) various special workshops will be announced in the schedule of classes under this course number.

**Prerequisite:** Permission.

**Schedule Type:** Workshop

**Contact Hours:** 1-6 other

**Grade Mode:** Satisfactory/Unsatisfactory

**ECON 42295 SPECIAL TOPICS IN ECONOMICS 3 Credit Hours**

(Repeatable for a maximum of 9 credit hours) (Slashed with ECON 52295) Various special topics will be announced in the schedule of classes under this course number.

**Prerequisite:** Special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ECON 42296 INDIVIDUAL INVESTIGATION IN ECONOMICS 1-3 Credit Hours**

(Repeatable for credit)Independent study done under the supervision of a faculty member. Written approval of supervising faculty member and department chair required prior to registration.

**Prerequisite:** Senior Economics major; and special approval.

**Schedule Type:** Individual Investigation

**Contact Hours:** 1-3 other

**Grade Mode:** Standard Letter-IP

**ECON 42297 VARIABLE TOPIC COLLOQUIUM IN ECONOMICS 1-3 Credit Hours**

(Repeated registration permitted when topic varies; Repeatable for a total of 9 hours) Various special colloquia will be announced in the schedule of classes under this number.

**Prerequisite:** Permission.

**Schedule Type:** Colloquium

**Contact Hours:** 1-3 other

**Grade Mode:** Standard Letter

**ECON 42298 RESEARCH IN ECONOMICS (ELR) 1-6 Credit Hours**

(Repeatable for credit)Research project done under the supervision of a faculty member. Written approval of supervising faculty member and department chair required prior to registration.

**Prerequisite:** Senior Economics major; and special approval.

**Schedule Type:** Research

**Contact Hours:** 1-6 other

**Grade Mode:** Standard Letter-IP

**Attributes:** Experiential Learning Requirement

**ECON 42299 SENIOR PROJECT (ELR) 1-3 Credit Hours**

(Repeatable for credit) Thesis or independent study project done under the supervision of a faculty member. Written approval of supervising faculty member and department chair required prior to registration.

**Prerequisite:** Senior economics major; and special approval.

**Schedule Type:** Senior Project/Honors Thesis

**Contact Hours:** 1-3 other

**Grade Mode:** Standard Letter-IP

**Attributes:** Experiential Learning Requirement

**ECON 52050 DATA ACQUISITION, PREPARATION AND VISUALIZATION 3 Credit Hours**

(Slashed with ECON 42050) Accessing and collecting data from existing sources (databases and raw data), transformation of raw data into formats that can be used for final analysis, techniques for presentation and visualization of data, predictive analytics using machine learning and cross validation. Students will perform some work in SAS but will also be introduced to the R statistical language.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ECON 52065 PROBLEMS OF MONETARY AND FISCAL POLICY 3 Credit Hours**

Analysis of objectives, techniques and economic effects of monetary and fiscal policies.

**Prerequisite:** ECON 32041 or ECON 62021; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ECON 52066 ECONOMICS OF ENTREPRENEURSHIP 3 Credit Hours**

(Slashed with ECON 42066) This course presents a wide-ranging overview of the place of economics in entrepreneurship, with a special focus on how economic research is conducted to study the determinants of entrepreneurship.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ECON 52068 INDUSTRIAL ORGANIZATION: FIRMS AND STRATEGY 3 Credit Hours**

(Slashed with ECON 42068) Theoretical, empirical and critical examination of structure, operation and performance of industrial markets in American economy.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ECON 52072 LABOR ECONOMICS: WORK AND PAY 3 Credit Hours**

(Slashed with ECON 42072) The economic analysis of the decisions of workers and firms in determination of wages and employment.

Topics include labor supply decisions, marginal productivity theory, discrimination, demand for education, effects of trade unions, immigration and growing wage inequality. For students that did not attend Kent State University for their undergraduate degree, please contact the department for approval.

**Prerequisite:** ECON 32040; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ECON 52076 ECONOMIC DEVELOPMENT 3 Credit Hours**

(Slashed with ECON 42076) Analysis of nature and significance of barriers to and future potential for economic development of a nation. Special emphasis on theories and strategic factors pertaining to economic growth.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ECON 52079 EUROPEAN ECONOMIC ISSUES 3 Credit Hours**

(Slashed with ECON 42079) This course examines current economic issues in the European Issues, including the monetary union and Euro, unemployment, immigration, health care, social security, poverty and inequality, and plans for expansion. The historical development and structure of the EU are also covered and the role of cultural influences are explored. In some semesters the course includes a required trip to visit European institutions over the Spring Break, at an additional fee.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ECON 52080 REGIONAL ECONOMICS 3 Credit Hours**

(Slashed with ECON 42080) Examines techniques of regional economic analysis to promote understanding of interregional disparities in developed nations and suggests policy alternatives for alleviating problems arising from disparities.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ECON 52081 URBAN ECONOMICS: CITIES AND HOUSING 3 Credit Hours**

(Slashed with ECON 42081) Application of economic principles to urban spatial patterns, economic development, and public policy in housing, transportation, pollution, welfare, etc.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ECON 52085 PUBLIC ECONOMICS: GOVERNMENT AND POLICY 3 Credit Hours**

(Slashed with ECON 42085) Examination of public expenditure and taxation policies including the theory of public goods, collective decision making, cost-benefit analysis, equity and efficiency aspects of taxation and current government policy issues.

**Prerequisite:** ECON 22060; and Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ECON 52086 ECONOMICS OF HEALTH CARE 3 Credit Hours**

(Slashed with ECON 42086) Overall objective is to use economic analysis to understand and evaluate what has and is happening to the health care profession and current health care policies under consideration. Topics include issues such as Medicare, health care reform, HMO's and increasing costs in health care.

**Prerequisite:** ECON 62022; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ECON 52187 INTERNATIONAL ECONOMICS EXPERIENCE 3 Credit Hours**

(Slashed with ECON 42187) Firsthand exposure to international economics. Includes pre-trip orientation sessions, visits to international business and organizations, and opportunities for cultural activities.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Field Experience

**Contact Hours:** 9 other

**Grade Mode:** Standard Letter

**ECON 52291 VARIABLE CONTENT SEMINAR IN ECONOMICS 1-4 Credit Hours**

(Repeatable for a maximum of 12 credit hours) (Slashed with ECON 42291) Various special seminars will be announced in the schedule of classes under this course number.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Seminar

**Contact Hours:** 1-4 other

**Grade Mode:** Standard Letter

**ECON 52293 VARIABLE TOPIC WORKSHOP IN ECONOMICS 1-6 Credit Hours**

(Repeatable for a maximum of 18 credit hours) Various special workshops will be announced in the schedule of classes under this course number.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Workshop

**Contact Hours:** 1-6 other

**Grade Mode:** Satisfactory/Unsatisfactory

**ECON 52295 SPECIAL TOPICS IN ECONOMICS 3 Credit Hours**

(Repeatable for a maximum of 9 credit hours) (Slashed with ECON 42295) Various special topics will be announced in the schedule of classes under this course number.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ECON 52297 VARIABLE TOPIC COLLOQUIUM IN ECONOMICS 1-3 Credit Hours**

(Repeatable for a maximum of 9 credit hours) Various special colloquia will be announced in the schedule of classes under this number.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Colloquium

**Contact Hours:** 1-3 other

**Grade Mode:** Standard Letter

**ECON 60199 THESIS I 2-6 Credit Hours**

(Repeatable for credit) Thesis students must register for a total of 6 hours, 2 to 6 hours in a single semester distributed over several semesters if desired.

**Prerequisite:** Graduate standing.

**Schedule Type:** Masters Thesis

**Contact Hours:** 2-6 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**ECON 60299 THESIS II 2 Credit Hours**

Thesis students must continue registration each semester until all degree requirements are met.

**Prerequisite:** ECON 60199; and graduate standing.

**Schedule Type:** Masters Thesis

**Contact Hours:** 2 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**ECON 62010 SURVEY OF ECONOMICS 3 Credit Hours**

Survey of basic economic concepts and methods of analysis of both micro- and macroeconomics. Emphasis is placed on the use and relevance of economic concepts and tools in business decision-making.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ECON 62015 ECONOMICS OF INFORMATION 3 Credit Hours**

Introduction to microeconomic theory and decision-making and its applications to the information economy. Overview of the economics of information. Consumer behavior and production theory; the demand for information; information as a factor of production; information costs and pricing. Case studies in the information industry.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ECON 62021 GLOBAL CONDITIONS AND MACROECONOMICS POLICY 2 Credit Hours**

(Slashed with ECON 72021) Analysis of forces determining economic growth, employment, inflation and global economic environment with emphasis on understanding the business cycle and government stabilization policies.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**ECON 62022 MANAGERIAL ECONOMICS 2 Credit Hours**

(Slashed with ECON 72022) Uses economic theory and quantitative methodologies to develop decision-making skills which enable managers of local, national and multinational companies to evaluate problems and allocate resources efficiently.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**ECON 62050 MICROECONOMIC THEORY I 3 Credit Hours**

(Slashed with ECON 72050) Comprehensive analysis of methodology of economics, consumer behavior production and costs the firm, markets and welfare economics. (It would be useful if the student had some facility in integral and differential calculus)

**Prerequisite:** ECON 62022; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ECON 62051 MACROECONOMIC THEORY I 3 Credit Hours**

(Slashed with ECON 72051) Analysis of the determination of the level of income, employment inflation economic growth consumption investment money demand and supply the international sector and economic policy are discussed.

**Prerequisite:** ECON 62021 and ECON 62022; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ECON 62054 ECONOMETRICS I 3 Credit Hours**

(Slashed with ECON 72054) Introduction to problems and methods of the empirical estimation of economic relationships.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ECON 62055 ECONOMETRICS II 3 Credit Hours**

(Slashed with ECON 72055) Covers generalized linear regression, mixed estimation, simultaneous equation systems, their identification and estimation by single equation and systems estimation.

**Prerequisite:** ECON 62054; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ECON 62056 TIME SERIES ANALYSIS 3 Credit Hours**

Covers various linear and non-linear time series models, market risk and value at risk (VAR). Students will gain hands on-experience with all models learned in the course. This course uses advanced analytical software and hardware on the financial engineering trading floor.

**Prerequisite:** Graduate standing; and special approval of instructor.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ECON 62061 MONETARY THEORY AND POLICY 3 Credit Hours**

(Slashed with ECON 72061) A study of the nature and definition of money, its relationship to prices, output, employment, and interest rates and problems related to the conduct of monetary policy.

**Prerequisite:** ECON 62021; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ECON 62072 ECONOMICS OF LABOR MARKETS 3 Credit Hours**

The economic analysis of the decisions of workers and firms in determination of wages and employment. Topics include labor supply decisions, marginal productivity theory, discrimination, demand for education, effects of trade unions, immigration and wage inequality.

**Prerequisite:** ECON 32040 or ECON 62022; and ECON 62054 or MIS 84023; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ECON 62075 INTERNATIONAL TRADE 3 Credit Hours**

(Slashed with ECON 72075) Study of modern international trade theory and policy, including free trade areas, international trade organizations, current issues in international trade and the effect of international trade on domestic policy.

**Prerequisite:** ECON 62021 and ECON 62022; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ECON 62076 INTERNATIONAL FINANCE 3 Credit Hours**

(Slashed with ECON 72076) Study of the international monetary relations between nations, including the determination of exchange rates, managed exchange rate policies, balance of payments crises, optimum currency areas, and international capital flows.

**Prerequisite:** ECON 62021; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ECON 62077 ECONOMIC PROBLEMS OF DEVELOPING AREAS 3 Credit Hours**

In-depth analysis of selected topics and issues in development economics.

**Prerequisite:** ECON 52076; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ECON 62092 INTERNSHIP IN ECONOMICS 3 Credit Hours**

(Repeatable for credit) Supervised practical experience in economics. Students must have a minimum 3.000 GPA in the economics major within the MAE degree and completed 4 courses from the MAE.

**Prerequisite:** Admitted to the Master of Arts in Economics program; and special approval.

**Schedule Type:** Practical Experience

**Contact Hours:** 3 other

**Grade Mode:** Satisfactory/Unsatisfactory

**ECON 62095 SPECIAL TOPICS IN ECONOMICS 3 Credit Hours**

(Repeatable 3 times for credit) Various special topics will be announced in the Schedule of Classes under this course number.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter



**ECON 62096 INDEPENDENT STUDY 1-3 Credit Hours**

(Repeatable for credit)Independent study on a particular project or sequence of subjects. Maximum of 6 semester hours of work may be earned in independent study although no more than 3 hours in any one semester.

**Prerequisite:** Graduation standing; and special approval.

**Schedule Type:** Individual Investigation

**Contact Hours:** 1-3 other

**Grade Mode:** Standard Letter-IP

**ECON 62098 RESEARCH 1-15 Credit Hours**

(Repeatable for credit)Research for master's students. May apply toward degree requirements if approved in advance by department.

**Prerequisite:** Graduate standing.

**Schedule Type:** Research

**Contact Hours:** 1-15 other

**Grade Mode:** Standard Letter

**ECON 62180 REGIONAL ECONOMICS 3 Credit Hours**

Examines techniques of regional economic analysis with the object of promoting understanding of interregional disparities in developed nations and policies for alleviating problems arising from disparities.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ECON 62199 THESIS I 2-6 Credit Hours**

Thesis students must register for total of 6 hours, 2 to 6 hours in a single semester, distributed over several semesters if desired.

**Prerequisite:** Graduate standing and special approval of adviser.

**Schedule Type:** Masters Thesis

**Contact Hours:** 2-6 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**ECON 62299 THESIS II 2 Credit Hours**

Thesis students must continue registration each semester until all degree requirements are met.

**Prerequisite:** ECON 62199; and graduate standing.

**Schedule Type:** Masters Thesis

**Contact Hours:** 2 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**ECON 64004 QUANTITATIVE METHODS IN BUSINESS****ADMINISTRATION I 3 Credit Hours**

(Slashed with ECON 74004) Introduction to fundamentals of matrix algebra, differential calculus and linear programming. Both algebraic and transcendental functions are included in discussion.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ECON 72021 GLOBAL CONDITIONS AND MACROECONOMIC POLICY ANALYSIS 2 Credit Hours**

(Slashed with ECON 62021) Analysis of forces determining economic growth, employment, inflation and global economic environment with emphasis on understanding the business cycle and government stabilization policies.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**ECON 72022 MANAGERIAL ECONOMICS 2 Credit Hours**

(Slashed with ECON 62022) Uses economic theory and quantitative methodologies to develop decision-making skills which enable managers to evaluate problems and allocate resources efficiently.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**ECON 72050 MICROECONOMIC THEORY I 3 Credit Hours**

(Slashed with ECON 62050) Comprehensive analysis of methodology of economics, consumer behavior, production and costs, the firm, markets and welfare economics. It would be useful if the student had some facility in integral and differential calculus.

**Prerequisite:** ECON 62022; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ECON 72051 MACROECONOMIC THEORY I 3 Credit Hours**

(Slashed with ECON 62051) Analysis of the determination of the level of income, employment, inflation, economic growth, consumption, investment, money demand and supply, the international sector and economic policy are discussed.

**Prerequisite:** ECON 62021 and ECON 62022; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ECON 72054 ECONOMETRICS I 3 Credit Hours**

(Slashed with ECON 62054) Introduction to problems and methods of the empirical estimation of economic relationships.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ECON 72055 ECONOMETRICS II 3 Credit Hours**

(Slashed with ECON 62055) Covers generalized linear regression, mixed estimation, simultaneous equation systems, their identification and estimation by single equation and systems estimation.

**Prerequisite:** ECON 62054; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ECON 72056 TIME SERIES ANALYSIS 3 Credit Hours**

Covers various linear and nonlinear time series models, market risk and value at risk (VAR). Students will gain hands on-experience with all models learned in the course. This course uses advanced analytical software and hardware on the financial engineering trading floor.

**Prerequisite:** Doctoral standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ECON 72061 MONETARY THEORY AND POLICY 3 Credit Hours**

(Slashed with ECON 62061) A study of the nature and definition of money, its relationship to prices, output, employment, and interest rates and, problems related to the conduct of monetary policy.

**Prerequisite:** ECON 62021; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter



**ECON 72075 INTERNATIONAL TRADE 3 Credit Hours**

(Slashed with ECON 62075) Study of modern international trade theory and policy, including free trade areas, international trade organizations, current issues in international trade and the effect of international trade on domestic policy.

**Prerequisite:** ECON 62021 and ECON 62022; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ECON 72076 INTERNATIONAL FINANCE 3 Credit Hours**

(Slashed with ECON 62076) Study of the international monetary relations between nations, including the determination of exchange rates, managed exchange rate policies, balance of payments crises, optimum currency areas and, international capital flows.

**Prerequisite:** ECON 62021; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ECON 72180 REGIONAL ECONOMICS 3 Credit Hours**

Examines techniques of regional economic analysis with the object of promoting understanding of interregional disparities in developed nations and policies for alleviating problems arising from disparities.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ECON 74004 QUANTITATIVE METHODS IN BUSINESS****ADMINISTRATION I 3 Credit Hours**

(Slashed with ECON 64004) Introduction to fundamentals of matrix algebra, differential calculus and linear programming. Both algebraic and transcendental functions are included in discussion.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ECON 82024 SEMINAR IN APPLIED ECONOMIC ANALYSIS 3 Credit Hours**

Discussion and analysis of selected current economic problems confronting the economy and the business sector. Emphasis will be on applied analysis.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Seminar

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ECON 82072 ECONOMICS OF LABOR MARKETS 3 Credit Hours**

The economic analysis of the decisions of workers and firms in determination of wages and employment. Topics include labor supply decisions, marginal productivity theory, discrimination, demand for education, effects of trade unions, immigration and wage inequality.

**Prerequisite:** ECON 32040 or ECON 62022; and ECON 62054 or MIS 84023; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

## Department of Finance

### Finance (FIN)

**FIN 26051 BITCOIN AND BLOCKCHAIN TECHNOLOGY 3 Credit Hours**

Digital currencies and distributed ledger technology will completely reshape the landscape of commerce and business. Course explores this from three different perspectives: the primary and secondary markets and emergence of digital tokens; capital formation in the digital economy; and financial technology transformation via distributed ledger blockchain.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**FIN 26074 LEGAL ENVIRONMENT OF BUSINESS 3 Credit Hours**

(Equivalent to BMRT 21000) Coverage of the nature, structure and significance of the legal and regulatory areas which confront business, with special emphasis on business ethics environmental and international issues.

**Prerequisite:** Sophomore standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**FIN 26085 INTRODUCTION TO FINANCIAL MODELING 1 Credit Hour**

Introduces students to financial modeling using both basic and advanced features in Microsoft Excel. Students will learn how to create and analyze databases for portfolios and other projects. Students will learn commands for statistical analysis and financial functions.

**Prerequisite:** CIS 24053; and minimum 2.500 overall GPA.

**Schedule Type:** Lecture

**Contact Hours:** 1 lecture

**Grade Mode:** Standard Letter

**FIN 26295 SPECIAL TOPICS IN FINANCE I 1-3 Credit Hours**

(Repeatable for credit) Deals with special topics in finance; new subjects not covered in other existing courses.

**Prerequisite:** Special approval.

**Schedule Type:** Lecture

**Contact Hours:** 1-3 lecture

**Grade Mode:** Standard Letter

**FIN 36040 PERSONAL FINANCIAL PLANNING 3 Credit Hours**

Course examines basic personal financial planning and investment strategies with the goal of increasing personal financial literacy and future individual well-being. Course provides a foundation for understanding financial decisions and making informed choices. Course does not fulfill a requirement for the Finance major or minor. Students cannot earn credit toward graduation for both FIN 36040 and FIN 36063.

**Prerequisite:** Minimum 2.000 overall GPA; and junior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**FIN 36051 THE FINANCIAL SYSTEM 3 Credit Hours**

Analysis of financial markets and institutions emphasizing current issues, regulatory aspects, and management concerns. This is a fundamental course for business majors and minors.

**Prerequisite:** ACCT 23020 or ACTT 11000; and ECON 22060; and minimum 2.500 overall GPA.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**FIN 36053 BUSINESS FINANCE 3 Credit Hours**

Introductory finance course analyzing the basic financial decisions of corporations and the interface of the firm with capital markets. Students discuss stocks, bonds, the time value of money, risk versus return and the essentials of capital budgeting.

**Prerequisite:** ACCT 23020 or ACTT 11000; and ECON 22060 or HONR 21197; and ECON 22061; and minimum 2.000 overall GPA.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**FIN 36054 INTERMEDIATE CORPORATE FINANCE 3 Credit Hours**

Treatment of financial decision making processes in businesses. Overview of cost of capital, capital budgeting, capital structure, and working capital management.

**Prerequisite:** Minimum C grade in FIN 26085, FIN 36053, ENG 21011 (or HONR 10297), COMM 15000 and MATH 11010 (or MATH 10675 or MATH 10775); and minimum 2.500 overall GPA; and finance major or minor.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**FIN 36059 INTERMEDIATE INVESTMENTS 3 Credit Hours**

Discussion of factors determining the value of investment securities with attention to economic, regulatory, and global influences. Either this course or FIN 36063, but not both, can count as an elective in a College of Business Administration program.

**Prerequisite:** Minimum C grade in FIN 26085, FIN 36053, ENG 21011 (or HONR 10297), COMM 15000 and MATH 11010 (or MATH 10675 or MATH 10775); and minimum 2.500 overall GPA; and finance major or minor.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**FIN 36061 PRINCIPLES OF REAL ESTATE 3 Credit Hours**

Principles and practices of real estate, real estate laws, contractual instruments, valuation, financing and markets in commercial and residential real estate.

**Prerequisite:** FIN 36053 with a minimum C grade; and minimum overall 2.500 GPA; and finance major or minor.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**FIN 36063 INDIVIDUAL INVESTMENT STRATEGIES 3 Credit Hours**

Course examines more advanced strategies for personal investing in stocks, bonds, insurance, real estate and alternative investments. Course does not fulfill a requirement for the Finance major or minor. Students cannot earn credit toward graduation for both FIN 36040 and FIN 36063. Not open to students declared in Finance major or minor.

**Prerequisite:** Minimum 2.000 overall GPA; and junior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**FIN 36072 LAW OF COMMERCIAL TRANSACTIONS 3 Credit Hours**

Introduction to real and personal property, commercial paper, agency law, business organizations, bankruptcy, secured transactions and other related areas of business law.

**Prerequisite:** FIN 26074 or BMRT 21000; and minimum 2.500 overall GPA.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**FIN 36081 PRINCIPLES OF INSURANCE 3 Credit Hours**

Examination of insurance industry, its regulatory environment and insurance contracts. Life and health insurance as well as property and liability insurance are covered.

**Prerequisite:** FIN 36053 with a minimum C grade; and minimum 2.500 overall GPA; and finance major or minor.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**FIN 36085 ADVANCED FINANCIAL MODELING 3 Credit Hours**

Provides students experience with advanced Excel and VBA programming.

**Prerequisite:** Minimum C grade in FIN 26085, FIN 36053, ENG 21011 (or HONR 10297), COMM 15000; and MATH 11010 (or MATH 10675 or MATH 10775); minimum 2.500 overall GPA; and finance major or minor.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**FIN 36280 STUDENT MANAGED INVESTMENT FUND JUNIOR OFFICER 1 Credit Hour**

(Repeatable for credit) This course is for Junior Officers in the Student Managed Investment Fund (SMIF). It examines the issues involved in the management and investment strategies of a portfolio of financial assets. Junior Officers research prospective investments, generate reports, and make decisions to invest or liquidate. Any recommendation to buy, sell, or retain a position in a security is presented to all student team members and to the instructor. Oral presentations are required. Requires special permission from the department chair. Students in the Finance major or minor may repeat this course up to a maximum of 3 credits. Course credits count toward general electives, not major electives.

**Prerequisite:** Finance major or minor; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 1 lecture

**Grade Mode:** Standard Letter

**FIN 46054 FINANCIAL RISK MANAGEMENT 3 Credit Hours**

Understanding techniques and financial tools used in managing financial risk. Analysis of contracts (options, forwards, futures) undertaken in the context of financial regulation and ethical practices within the financial marketplace.

**Prerequisite:** FIN 36053 with a minimum C grade; and overall 2.500 overall GPA; and finance major or minor.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**FIN 46055 ADVANCED DERIVATIVE SECURITIES 3 Credit Hours**

(Slashed with FIN 56055) Comprehensive analysis of derivatives securities markets and their role in the financial system. Valuation methods, advanced hedging, arbitration techniques and the regulatory environment.

**Prerequisite:** FIN 36059; and minimum 2.500 overall GPA; and Finance major or minor.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**FIN 46056 ADVANCED FIXED INCOME MANAGEMENT 3 Credit Hours**

(Slashed with FIN 56056) Course investigates techniques and financial tools used in fixed income markets. Students analyze interest rate and bond mathematics; review the structure of debt markets; and examine the mechanics, securities, derivatives and structured products tied to the credit and debt markets.

**Prerequisite:** FIN 36051 and FIN 36059; and minimum 2.500 overall GPA; and Finance major or minor.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**FIN 46059 APPLIED FINANCIAL MANAGEMENT STRATEGIES (ELR) (WIC) 3 Credit Hours**

(Slashed with FIN 56059) Emphasis on financial policies and strategic financial decision-making with respect to both short-term and long-term financial management problems.

**Prerequisite:** FIN 36054; and MATH 10041 or MGMT 24056; and minimum 2.500 overall GPA; and Finance major.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Experiential Learning Requirement, Writing Intensive Course

**FIN 46061 REAL ESTATE FINANCE 3 Credit Hours**

(Slashed with FIN 56061) Course covers basic real estate law, project evaluation, financing strategies, investment decision making and real estate capital markets.

**Prerequisite:** FIN 36051; and FIN 36054 or FIN 36059; and 2.500 overall GPA; and Finance major or minor.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**FIN 46064 INTERNATIONAL BUSINESS FINANCE 3 Credit Hours**

(Slashed with FIN 56064) Management of the finance function of an international company, including foreign exchange exposure management, foreign investment, short term and long term capital management and international accounting and taxation.

**Prerequisite:** FIN 36053 with a minimum C grade; and minimum 2.500 overall GPA; and Finance major or minor or International Business minor.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**FIN 46067 ADVANCED PORTFOLIO ANALYSIS 3 Credit Hours**

(Slashed with FIN 56067) Examines the principles, methods, and techniques of portfolio analysis with emphasis on determination of portfolio risks and returns. The political, ethical, and global forces affecting asset risks and returns are evaluated.

**Prerequisite:** FIN 36051 and FIN 36059; and minimum 2.500 overall GPA; and Finance major or minor.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**FIN 46068 COMMERCIAL BANK MANAGEMENT 3 Credit Hours**

(Slashed with FIN 56068) Financial management techniques applied to commercial banks. Focus on management of liquidity, investment and loan portfolios and capital structure.

**Prerequisite:** FIN 36051; and FIN 36054 or FIN 36059; and minimum 2.500 overall GPA; and Finance major or minor.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**FIN 46070 ADVANCED COMMERCIAL BANK MANAGEMENT 3 Credit Hours**

(Slashed with FIN 56070) Course contains a mixture of lectures, guest speakers and case discussions regarding the banking industry. Advanced discussions of liquidity risk, interest rate risk, credit risk and solvency risk and the management of these risks. In-depth computer models for measuring and managing risks are discussed.

**Prerequisite:** FIN 46068; and minimum 2.500 overall GPA; and Finance major or minor.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**FIN 46087 INTERNATIONAL FINANCE EXPERIENCE 3 Credit Hours**

(Slashed with FIN 56087) Firsthand exposure to international businesses and organizations generally relating to business and specifically relating to finance. Includes pre-trip orientation sessions, visits to international businesses and organizations, and opportunities for cultural activities.

**Prerequisite:** ECON 22060; and minimum 2.500 overall GPA; and sophomore standing in the college of business administration; and special approval.

**Schedule Type:** Field Experience

**Contact Hours:** 9 other

**Grade Mode:** Standard Letter

**FIN 46096 INDIVIDUAL INVESTIGATION IN FINANCE 1-3 Credit Hours**

(Repeatable for credit) Opportunity for research in problem areas of interest in field of finance. Agreement of faculty member in the department must be secured prior to registering for course.

**Prerequisite:** Minimum 2.500 overall GPA; and finance major; and special approval.

**Schedule Type:** Individual Investigation

**Contact Hours:** 1-3 other

**Grade Mode:** Standard Letter

**FIN 46192 INTERNSHIP IN FINANCE (ELR) 3 Credit Hours**

(Repeatable for credit) An internship for finance majors interested in obtaining career-relevant experience. Students and employers must satisfy criteria established by the department. Students are responsible for securing employment.

**Prerequisite:** FIN 36051; and FIN 36054 or FIN 36059; and a minimum 2.500 overall GPA; and finance major; and special approval.

**Schedule Type:** Practical Experience

**Contact Hours:** 9 other

**Grade Mode:** Standard Letter

**Attributes:** Experiential Learning Requirement

**FIN 46280 STUDENT MANAGED INVESTMENT FUND SENIOR OFFICE 3 Credit Hours**

(Repeatable for credit) This course is for Senior Officers in the Student Managed Investment Fund (SMIF). It examines the issues involved in the management and investment strategies of a portfolio of financial assets. It focuses on asset allocation, portfolio monitoring and evaluation, portfolio rebalancing, and investment analysis under the supervision of the instructor. Senior Officers are responsible for leading meetings, preparing and presenting the annual report, reviewing performance, making trades, monitoring risk, providing the economic report, and ensuring a smooth flow of operations. Oral presentations are required. Requires special permission from the department chair. Students in the Finance major or minor may repeat this course for a maximum of 6 credits. Course credits count toward general electives when taken for the first time. Course credits can count toward general electives or major electives if taken for the second time.

**Prerequisite:** Finance major or minor; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**FIN 46295 SPECIAL TOPICS IN FINANCE II 1-3 Credit Hours**

(Repeatable for credit) Deal with special topics in finance. New subjects not covered in other existing courses.

**Prerequisite:** FIN 36053; and minimum 2.500 overall GPA; and finance major; and senior standing.

**Schedule Type:** Lecture

**Contact Hours:** 1-3 lecture

**Grade Mode:** Standard Letter

**FIN 56055 ADVANCED DERIVATIVE SECURITIES 3 Credit Hours**

(Slashed with FIN 46055) Comprehensive analysis of options and futures markets and their role in the financial system. Students explore valuation methods, advanced hedging, arbitration techniques and the regulatory environment.

**Prerequisite:** FIN 66060; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**FIN 56056 ADVANCED FIXED INCOME MANAGEMENT 3 Credit Hours**

(Slashed with FIN 46056) Course investigates techniques and financial tools used in fixed income markets. Students analyze interest rate and bond mathematics; review the structure of debt markets; and examine the mechanics, securities, derivatives and structured products tied to the credit and debt markets.

**Prerequisite:** FIN 66060; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**FIN 56059 APPLIED FINANCIAL MANAGEMENT STRATEGIES 3 Credit Hours**

(Slashed with FIN 46059) Emphasis on financial policies and strategic financial decision-making with respect to both short-term and long-term financial management problems.

**Prerequisite:** FIN 66060; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**FIN 56061 REAL ESTATE FINANCE 3 Credit Hours**

(Slashed with FIN 46061) Course covers basic real estate law, project evaluation, financing strategies, investment decision making and real estate capital markets.

**Prerequisite:** FIN 66060; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**FIN 56064 INTERNATIONAL BUSINESS FINANCE 3 Credit Hours**

(Slashed with FIN 46064) Management of the finance function of an international company, including foreign exchange exposure management, foreign investment, short term and long term capital management and international accounting and taxation.

**Prerequisite:** FIN 66060; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**FIN 56067 ADVANCED PORTFOLIO ANALYSIS 3 Credit Hours**

(Slashed with FIN 46067) Examines the principles, methods and techniques of portfolio analysis with emphasis on determination of portfolio risks and returns. Students evaluate political, ethical, and global forces affecting asset risks and returns.

**Prerequisite:** FIN 66060; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**FIN 56068 COMMERCIAL BANK MANAGEMENT 3 Credit Hours**

(Slashed with FIN 56068) Financial management techniques applied to commercial banks. Focus on management of liquidity, investment and loan portfolios and capital structure.

**Prerequisite:** FIN 66060; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**FIN 56070 ADVANCED COMMERCIAL BANK MANAGEMENT 3 Credit Hours**

(Slashed with FIN 46070) Course contains a mixture of lectures, guest speakers and case discussions regarding the banking industry. Advanced discussions of liquidity risk, interest rate risk, credit risk and solvency risk and the management of these risks. In-depth computer models for measuring and managing risks are discussed.

**Prerequisite:** FIN 66060; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**FIN 56087 INTERNATIONAL FINANCE EXPERIENCE 3 Credit Hours**

(Slashed with FIN 46087) Firsthand exposure to international businesses and organizations generally relating to business and specifically relating to finance. Includes pre-trip orientation sessions, visits to international businesses and organizations, and opportunities for cultural activities.

**Prerequisite:** Graduate standing in the college of business administration; and special approval.

**Schedule Type:** Field Experience

**Contact Hours:** 9 other

**Grade Mode:** Standard Letter



**FIN 56280 STUDENT-MANAGED INVESTMENT FUND DIRECTOR 3 Credit Hours**

Course examines the issues involved in the management and investment strategies of a live portfolio of financial assets. Students study asset allocation, portfolio monitoring and evaluation, portfolio rebalancing and investment analysis under the supervision of the instructor. Written and oral presentations are required.

**Prerequisite:** FIN 66060; and graduate standing; and special approval from the department chair.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**FIN 66050 LAW AND ETHICS 2 Credit Hours**

This course is an overview of laws and regulations with related ethical impacts affecting business management.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**FIN 66060 MANAGERIAL FINANCE 2 Credit Hours**

Study of managerial decisions of the firm from a financial point of view. Topics include valuation, project analysis, and sources and uses of funds.

**Prerequisite:** ACCT 63037, ACCT 63038 and ECON 62021; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**FIN 66061 FINANCIAL MANAGEMENT I 3 Credit Hours**

Study of financial decision-making processes within a firm. Emphasis on applications and strategic planning in investment, financing, dividend and working capital decisions.

**Prerequisite:** ACCT 63037 and ACCT 63038; and ECON 62021; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**FIN 86061 THEORIES OF FINANCIAL DECISION-MAKING 3 Credit Hours**

A study of optimal investment decisions under conditions of certainty and uncertainty.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**FIN 86062 RESEARCH METHODS IN CORPORATE FINANCE 3 Credit Hours**

A study of the theory and empirical evidence from a global perspective regarding corporate financial management.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**FIN 86064 RESEARCH METHODS IN DERIVATIVES 3 Credit Hours**

A study of the theory and empirical evidence from a global perspective regarding derivative securities.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**FIN 86066 RESEARCH METHODS INVESTMENTS 3 Credit Hours**

A study of the theory and empirical evidence from a global perspective regarding investment analysis, valuation and portfolio selection.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**FIN 86098 RESEARCH TOPICS IN FINANCE 3 Credit Hours**

A study of the theory and empirical evidence from a global perspective regarding a topic of the faculty member's expertise.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Research

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

## Department of Management and Information Systems

### Computer Information Systems (CIS)

**CIS 24053 INTRODUCTION TO COMPUTER APPLICATIONS 3 Credit Hours**

(Equivalent to IT 11000) Develop competency in the operation of contemporary software and hardware applications. To develop an appreciation for the contribution of computers, software and the Internet to society.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** TAG Business

**CIS 24065 WEB PROGRAMMING 3 Credit Hours**

Principles of visual design as applied to Web site interface development. The course exposes students to the basics of programming and relational database and how to develop a Web-based database driven interactive information system.

**Prerequisite:** CIS 24053.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture, 2 lab

**Grade Mode:** Standard Letter

**CIS 24093 VARIABLE TITLE WORKSHOP IN MANAGEMENT AND INFORMATION SYSTEMS 1-6 Credit Hours**

(Repeatable for credit) Special workshop in management and information systems. Credits depend on scope of project.

**Prerequisite:** Special approval.

**Schedule Type:** Workshop

**Contact Hours:** 1-6 other

**Grade Mode:** Satisfactory/Unsatisfactory



**CIS 24165 CLOUD SYSTEMS COMPUTING 3 Credit Hours**

This course explores the history, current state, and projected future of cloud approach to providing computing resources. Almost all new startups today use “the cloud” because it allows fast time to market, flexibility, and the ability to “test” new ideas and product offerings very quickly. Kent State even uses this approach for things like student email and Blackboard. Most existing companies realize the “cloud” is in their future; the goal of the course is to expose students to the knowledge they need to be able to help their future employers with cloud migration.

**Prerequisite:** Minimum C+ grade in CIS 24053.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CIS 24167 CLOUD INFRASTRUCTURE AND APPLICATIONS 3 Credit Hours**

Information systems is critical to the efficient operation of any organization today, such as in hiring employees, performing background checks, ordering/creating products, transacting businesses, and providing follow-up services, among others. These can be large “integrated systems” or ERPs or loose collection of “Apps.” This class explores the various alternatives available today and the likely future of new products in the future. Different viewpoints and debates will be explored in the class with opportunities for students to discuss and present their thoughts.

**Prerequisite:** Minimum C+ grade in CIS 24053; and minimum 2.500 overall GPA.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CIS 34032 DATA AND FILE TECHNOLOGY 3 Credit Hours**

An introduction to file architecture and data base management systems. The application of these technologies is detailed.

**Prerequisite:** CIS 34068.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CIS 34034 BUSINESS MODELING AND AGILE DESIGN 3 Credit Hours**

Introduction to methods, tools, and techniques used to analyze and develop information systems, with emphasis on application of methods and concepts to real-world problems. The course is the cornerstone upon which all subsequent IS activities are based. Skills developed in the course would have immediate applicability for IS students and help non-IS students gain knowledge they need to appreciate the role of IS in their organization, so they can better understand how to manage and support IS-related projects.

**Prerequisite:** Minimum 2.500 overall GPA.

**Pre/corequisite:** CIS 24167.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CIS 34036 ENTERPRISE SYSTEMS AND BUSINESS PROCESSES 3 Credit Hours**

Overview of the basics of business processes and Enterprise Resource Planning systems solutions in the cloud. The course prepares students for business process and other cloud related courses, with hands-on experience with a professional ERP system such as SAP. Topics covered include data navigation, client server systems, virtualization, database, security, accounting and procurement processes, and ERP simulation games.

**Prerequisite:** CIS 34034; and minimum 2.500 overall GPA.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CIS 34045 SMALL SYSTEMS TECHNOLOGY 3 Credit Hours**

An examination of the role of small computer systems within an organization's information systems environment.

**Prerequisite:** CIS 34068.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CIS 34068 SYSTEMS ANALYSIS AND DESIGN 3 Credit Hours**

This is an introductory course in Systems Analysis and Design. Students will be presented with the concepts, techniques, and methodologies that are required for the successful development of information systems.

Application of methods and concepts to real-world problems will be emphasized.

**Prerequisite:** Minimum C grade in CIS 24053 or IT 11000; and minimum C grade in the following courses CIS 24065, ENG 21011, COMM 15000 and MATH 11010; and minimum 2.500 overall GPA.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CIS 34070 PROGRAMMING THEORY AND APPLICATIONS 3 Credit Hours**

Programming in a strongly-typed language environment with an emphasis on problem-solving.

**Prerequisite:** Minimum C grade in CIS 24053 and CIS 24065; and minimum 2.500 overall GPA.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CIS 34080 COMPUTER PROGRAMMING FOR BUSINESS I 3 Credit Hours**

Introduces a programming language currently used in business and industry for data processing, decision making and other information systems applications.

**Prerequisite:** CIS 34070.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CIS 34167 CREATING INTUITIVE SYSTEMS 3 Credit Hours**

The process of creating products that are intuitive, simple, useful and easy-to-use is difficult and always evolving. However, organizations such as Apple Incorporated and Google that can adopt this approach to product or service development are often on top of their industry. This course will explore this process, its value and how to make it work to help a business prosper and thrive in today's highly competitive market and short product lifecycles.

**Prerequisite:** Minimum C+ grade in CIS 24053; and minimum 2.500 overall GPA.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CIS 34170 TECHNOLOGY BOOTCAMP 3 Credit Hours**

The course covers important current topics and innovations in information system technologies. Students are taught to develop skills that help them to identify and investigate emerging important technologies and learn how to research and master them. Topics covered each semester will be different from those covered in past semesters, with examples of what were covered in the past.

**Prerequisite:** Minimum C+ grade in CIS 24053; and minimum 2.500 overall GPA.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CIS 44007 PROJECT MANAGEMENT AND TEAM DYNAMICS 3 Credit Hours**

Overview and hands-on experience of the principles, tools, and techniques of project management with emphasis on practical aspects of initiating, planning, executing, costing and closing out information systems related projects. The course begins with the Myers-Briggs personality inventory which will help in later class team exercises and uses the PMBOK. Students will work in teams to perform exercises that will help them learn team dynamics and leadership.

**Prerequisite:** Minimum C+ grade in CIS 24053; and minimum 2.500 overall 2.500 GPA.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CIS 44033 ADVANCED COMPUTER PROGRAMMING FOR BUSINESS 3 Credit Hours**

Covers Java programming language, including applications and applets, with emphasis on object-oriented programming. The course also emphasizes problem solving, developing systems, structured programming and programming style conventions.

**Prerequisite:** Minimum C grade in the following courses CIS 24053 and CIS 24065 and CIS 34070; and minimum 2.500 overall GPA.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CIS 44040 PROGRAMMING FOR THE CLOUD 3 Credit Hours**

Cloud development programming course that is based on the client-server architecture. The course begins with a review of HTML and CSS used to build the user interface. Document Object Model (DOM) is investigated as the basis for all web interfaces. Interface stylistic formatting is achieved by use of CSS, and JavaScript for interface in the web browser, while server-based language such as PHP and Python are used to process user actions. The course also introduces jQuery for interface animation.

**Prerequisite:** CIS 24165; and minimum 2.500 overall GPA.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CIS 44042 NETWORK THEORY AND APPLICATIONS 3 Credit Hours**

Presentation of current and emerging network technologies and services in business applications and performance issues. Topics include transmission media, modulation and signaling schemes, switching and multiplexing techniques, local and wide area network protocols and standards, and internetworking devices.

**Prerequisite:** Minimum C grade in CIS 24053 and CIS 24065; and minimum overall 2.500 GPA.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CIS 44043 DATA MANAGEMENT AND BUSINESS INTELLIGENCE I 3 Credit Hours**

The processing, storage, retrieval, manipulation, and management of often massive and complex business data is an essential part of most information systems. This course will expose students to key database concepts such data integrity, conceptual and logical data modeling, and structured query language (SQL). Some of the SQL skills include data definition language (DDL), data manipulation language (DML), transaction control concepts, joins, grouping, and subqueries. The course will also introduce database management concepts related to managing users and physical storage space. Current and future database trends and issues will also be discussed including security, introduction to emerging topics in big data, data acquisition, analytics and visualization.

**Prerequisite:** CIS 44040; and minimum 2.500 overall GPA.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CIS 44044 SYSTEMS ANALYSIS II 3 Credit Hours**

Physical system implementation: mapping logical data models and process models to physical data bases and system design; system coding, testing, installation, conversion, training and automated tools.

**Prerequisite:** CIS 34068.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CIS 44045 INFORMATION SYSTEMS MANAGEMENT 3 Credit Hours**

Management of information systems resources in organizations of all types and sizes; IT best practices; the effective and efficient use of IS in support of the organization's mission and to achieve competitive advantage in today's global economy; the impact of IT on enterprises, users, customers, society, and the environment.

**Prerequisite:** Minimum C grade in the following courses CIS 24053 and CIS 24065; minimum 2.500 overall GPA; and senior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CIS 44048 CLOUD SYSTEMS INTEGRATION (ELR) (WIC) 3 Credit Hours**

As a writing intensive course the primary objective is that students or team of students write and rewrite their reports to consistently produce high quality, clear, and to the point written and verbal communication with feedback from their instructor. Students participate as a member of a project development team that builds cloud-based information system using a cloud platform for a real client. To be completed successfully, the projects often require knowledge, content, and skills from all prior IS courses.

**Prerequisite:** Minimum 2.500 overall GPA.

**Pre/corequisite:** CIS 44043.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Experiential Learning Requirement, Writing Intensive Course

**CIS 44049 NETWORK MANAGEMENT AND CYBERSECURITY 3 Credit Hours**

The course explores technologies and business issues related to computer networking and security, with emphasis on the protocols in modern business networking such as Ethernet and TCP-IP. Topics also include cybersecurity threats and defenses, privacy, cloud and parallel computing, and map-reduce.

**Prerequisite:** Minimum C grade in the following courses CIS 24053 and CIS 24065; and minimum 2.500 overall GPA.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CIS 44093 VARIABLE TITLE WORKSHOP IN MANAGEMENT AND INFORMATION SYSTEMS 1-6 Credit Hours**

Repeatable for credit) Variable title workshop courses offered under management and information sciences.

**Prerequisite:** Minimum 2.500 overall GPA.

**Schedule Type:** Workshop

**Contact Hours:** 1-6 other

**Grade Mode:** Satisfactory/Unsatisfactory

**CIS 44095 SPECIAL TOPICS IN COMPUTER INFORMATION SYSTEMS 3 Credit Hours**

(Repeatable for credit) Offered on a semester basis with different CIS topics and different faculty involved each time the course is offered.

**Prerequisite:** Minimum 2.500 overall GPA; and junior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CIS 44140 APPLICATION DESIGN AND DEVELOPMENT 3 Credit Hours**

The focus of this course is about making apps for mobile and other devices. Techniques that permit apps to be developed and then used as native on Android and iOS platforms are covered, with emphasis on interface design, client programming, server programming, database use for storage and retrieval, and security. The Model-View-Controller (MVC) architecture is used as the basis for app development, including interface, programming and data management.

**Prerequisite:** CIS 44040; and minimum 2.500 overall GPA.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CIS 44243 DATA MANAGEMENT AND BUSINESS INTELLIGENCE II 3 Credit Hours**

The course explores advanced topics in the acquisition, management and use of data. The knowledge and skills presented in Data Management and Business Intelligence I, big data, data acquisition, analytics and visualization are extended with an emphasis on machine learning, artificial intelligence, and NoSQL. There is also an introduction to blockchain concept using software platforms.

**Prerequisite:** CIS 44043; and minimum 2.500 overall GPA.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CIS 44292 BUSINESS EXPERIENCE AND INTERNSHIP (ELR) 3 Credit Hours**

(Repeatable for credit) Learning by experience and practice in an IT related company. The course exposes students to the various areas and activities related to the information systems profession in a cooperating organization.

**Prerequisite:** Minimum C+ grade in CIS 24053; and minimum 2.500 overall GPA.

**Schedule Type:** Practical Experience

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**Attributes:** Experiential Learning Requirement

**CIS 44293 WORKSHOP IN PROFESSIONAL IS CERTIFICATION 3 Credit Hours**

Supervised workshop designed to help students pass at least one VMware, Microsoft or other vendors' professional certification credentials. The student chooses the exam to take, with the course providing a supported self-study opportunity to prepare for the exam.

**Prerequisite:** Minimum C+ grade in CIS 24053; and minimum 2.500 overall GPA.

**Schedule Type:** Workshop

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**CIS 44295 SPECIAL TOPICS IN INFORMATION SYSTEMS 3 Credit Hours**

(Repeatable for credit) Special topics course on newest advances in information systems technology and how they support business activities. New and emerging topics in information systems are presented in an experimental way, with the content of the course changing from one offering to the other.

**Prerequisite:** Minimum C+ grade in CIS 24053; and minimum 2.500 overall GPA.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Human Resource Management (HRM)****HRM 34092 PRACTICUM CAREER DEVELOPMENT (ELR) 3 Credit Hours**

In-depth training and development course designed to prepare students for resume presentation, job search, interviewing, participation in the internship and career launching.

**Prerequisite:** Minimum 2.500 overall GPA; and junior standing.

**Schedule Type:** Lecture, Practical Experience

**Contact Hours:** 1 lecture, 2 other

**Grade Mode:** Standard Letter

**Attributes:** Experiential Learning Requirement

**HRM 34180 HUMAN RESOURCE MANAGEMENT 3 Credit Hours**

Focuses on the importance of the management of human resources for any organization, its employees, customers, shareholders, and the community where it is located. The topic helps students understand the important issues that derive from managing people at work and the changing environment organizations face. Students will learn the integral role human resources management plays to the success or failure of an organization. Both practical and theoretical perspectives are presented.  
**Prerequisite:** MGMT 24163 or BMRT 11009; and minimum 2.500 overall GPA.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HRM 34187 INTERNATIONAL EXPERIENCE IN HUMAN RESOURCE MANAGEMENT 3 Credit Hours**

Guided introduction to applied Human Resource Management in another culture by examining opportunities and challenges. Via select company tours, tour of historical sites and meetings with management from local companies as well as U.S. companies doing business in foreign countries, students will be exposed to the current HR functions and practices in a foreign country, such as selecting and managing a workforce, compliance with the employment laws, employee training and development, expatriation repatriation, performance management, and compensation issues.

**Prerequisite:** HRM 34180 or BMRT 31006 with a minimum C grade; and minimum 2.500 overall GPA; and sophomore standing; and special approval.

**Schedule Type:** Field Experience

**Contact Hours:** 9 other

**Grade Mode:** Standard Letter

**HRM 44091 SEMINAR IN HUMAN RESOURCE MANAGEMENT 3 Credit Hours**

(Repeatable for credit) (Slashed with MIS 54091) In-depth readings, discussion projects and presentations in a specialized area of human resource management.

**Prerequisite:** HRM 34180 or BMRT 31006; and minimum 2.500 overall GPA.

**Schedule Type:** Seminar

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HRM 44183 DEVELOPING AND TRAINING HUMAN RESOURCES IN ORGANIZATIONS 3 Credit Hours**

(Slashed with MIS 54183) Course focus is quality training design, based upon theory and empirical research. Implications for practice and current challenges in employee training and development are also highlighted.

**Prerequisite:** HRM 34180 or BMRT 31006 with a minimum C grade; and minimum 2.500 overall GPA.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HRM 44185 STAFFING HUMAN RESOURCES 3 Credit Hours**

(Slashed with MIS 54185) Staffing, development of systems to select, place, promote, and retain employees to enhance organizational effectiveness and maintain legal compliance are core HRM activities in organizations. This course will provide students with an understanding of the technical components of selection, including how to determine which applicant characteristics should be examined, what procedures should be used to gather information, and how that information should be combined to identify qualified job applicants. In addition, this course focuses on promotion and retention of employees.

**Prerequisite:** HRM 34180 or BMRT 31006 with a minimum C grade; and a minimum 2.500 overall GPA.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HRM 44195 ADVANCED TOPICS IN HUMAN RESOURCE MANAGEMENT 3 Credit Hours**

(Repeatable for a total of 6 credit hours) Advanced topics course that are offered on a yearly basis. Topics can span the full range of HR functions. This course can also have a practicum format.

**Prerequisite:** HRM 34180 or BMRT 31006; and minimum 2.500 overall GPA.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HRM 44445 GLOBAL HUMAN RESOURCE MANAGEMENT (WIC) 3 Credit Hours**

(Slashed with MIS 54445) The course examines the impact of internationalization and cross-cultural challenges on organizations, the factors involved in selecting and managing an international workforce, the evaluation of employee relations and employment law, and address issues such as employee training and development, expatriation-repatriation, performance management, and compensation issues, all from the perspective of managing an international organization.

**Prerequisite:** HRM 34180 or BMRT 31006 with a minimum C grade; and minimum 2.500 overall GPA; and student must be enrolled in the human resource management major or minor; and senior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Writing Intensive Course

**HRM 44492 BUSINESS EXPERIENCE AND INTERNSHIP IN HUMAN RESOURCE MANAGEMENT (ELR) 3 Credit Hours**

(Repeatable for credit) Learning by experience by performing activities related to the Human Resource Management profession in a cooperating organization.

**Prerequisite:** HRM 34180 or BMRT 31006 with a minimum C grade; and a minimum 2.500 overall GPA; and must be enrolled in the human resource management major or minor.

**Schedule Type:** Practical Experience

**Contact Hours:** 1 lecture, 14 other

**Grade Mode:** Standard Letter

**Attributes:** Experiential Learning Requirement



**HRM 44495 SPECIAL TOPICS IN HUMAN RESOURCE MANAGEMENT**  
**3 Credit Hours**

(Repeatable for credit) Offered on a semester basis with different human resource management topics and different faculty involved each time the course is offered.

**Prerequisite:** Minimum 2.500 overall GPA; and junior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HRM 44499 HUMAN RESOURCE BUSINESS CONSULTING AND PROJECTS (ELR) 3 Credit Hours**

This course bridges between Human Resource Management coursework and the world of HRM practice. The course will provide a variety of learning experiences to help students gain knowledge and practical experience to prepare them to embark on careers in the HRM profession. Upon completion of this course, students should have much to discuss in a job interview and a useful entry on their resumes.

**Prerequisite:** HRM 34180 or BMRT 31006 minimum C grade; and minimum 2.500 overall GPA; and student must be enrolled in the human resource management minor or major.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Experiential Learning Requirement

**HRM 44660 PERFORMANCE MANAGEMENT AND COMPENSATION SYSTEMS 3 Credit Hours**

The course provides overview of the performance management process, examines various approaches to performance management, and discusses sources of performance management information. Also considers the nature of the compensation systems and pay system mechanics, as well as methods for recognizing employee contributions through compensation.

**Prerequisite:** HRM 34180 or BMRT 31006 with a minimum C grade; and minimum 2.500 overall GPA.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HRM 44763 HUMAN RESOURCE ANALYTICS AND ERP SYSTEMS 3 Credit Hours**

The course examines the use of HR data, metrics, analytics, and ERP systems to guide human resource management decision making and support the strategic goals of the organization. The course will introduce students to the characteristics of high quality data, introduce common analysis techniques, data interpretation and visualization, and report assessment. Through lecture, readings, and problem solving exercises using enterprise resource planning systems (SAP and Oracle), students will gain the knowledge and skills necessary to assess various human resource management initiatives and formulate solutions to common human-resource-related problems. Upon completion of the course, students will understand how HR analytics and ERP systems help an organization achieve its strategic goals.

**Prerequisite:** HRM 34180 or BMRT 31006 with a minimum C grade; and minimum 2.500 overall GPA.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Management (MGMT)****MGMT 24056 BUSINESS ANALYTICS I 3 Credit Hours**

(Equivalent to BMRT 21004) Introduction to concepts in statistical methods and their applications to real world problems. Examines both the theoretical and practical side of the different methods.

**Prerequisite:** MATH 11010 or MATH 11012 or MATH 12002.

**Schedule Type:** Laboratory, Lecture, Combined Lecture and Lab

**Contact Hours:** 2 lecture, 2 lab

**Grade Mode:** Standard Letter

**MGMT 24163 PRINCIPLES OF MANAGEMENT 3 Credit Hours**

(Equivalent to BMRT 11009) Introductory course in management and organizational design. The leading contributions in the area are reviewed and practical implications are developed. The course covers the principles that most management professors have come to expect in an introductory course: planning, organizing, leading, and controlling. In addition, the students need to be aware of critical issues managers must be aware of to succeed: diversity, globalization, ethics, technology, sustainability among them. The course serves as an introduction to many upper level business courses.

**Prerequisite:** Sophomore standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MGMT 34054 USING INFORMATION SYSTEMS FOR SOLVING BUSINESS PROBLEMS 3 Credit Hours**

Course examines key concepts about information systems that are relevant for business managers. Students will complete hands-on assignments. Course is not open to students in the Computer Information Systems major.

**Prerequisite:** CIS 24053 or IT 11000; and minimum 2.000 overall GPA.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MGMT 34055 COMPUTER DECISION MODELING 3 Credit Hours**

Introduces students to the scientific decision-making tools of operations research and management science, and also to the use of spreadsheet modeling for problem formulation and solution without the need for mathematics. The concepts of modeling and better decision making are stressed along with illustrations from the various functional areas of business. Course not open to computer information systems majors.

**Prerequisite:** CIS 24053 or IT 11000; and MGMT 24056 or MATH 10041 or BMRT 21004; and minimum 2.500 overall GPA.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MGMT 34059 SERVICE OPERATIONS MANAGEMENT 3 Credit Hours**

Provide students with the concepts and tools necessary to effectively manage service operations and to prepare students for management opportunities in service firms that represent the fastest-growing sector of the economy. The service management will be presented from an integrated viewpoint with a focus on customer satisfaction. The course materials are organized around four modules (1) understanding services (2) designing the service enterprise, (3) managing service operations and (4) toward world class-service.

**Prerequisite:** MGMT 34060; and minimum 2.500 overall GPA.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter



**MGMT 34060 OPERATIONS MANAGEMENT 3 Credit Hours**

A survey course in operations management that covers the managerial concepts and the quantitative tools used in the design, planning operation and control of operations systems.

**Prerequisite:** CIS 24053 or IT 11000; and MGMT 24056 or MATH 10041 or BMRT 21004.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MGMT 34064 MANUFACTURING RESOURCE PLANNING 3 Credit Hours**

Introduce students to the basic tools operations managers use to inform their decisions on a daily basis. The course involves hands-on coverage of manufacturing resource planning tools, including forecasting and master production schedules, bill of materials structuring, order entry and purchasing, capacity requirements planning, routing, costing, customer service, shipping, invoicing and using an enterprise resource planning (ERP) software.

**Prerequisite:** MGMT 34060; and minimum 2.500 overall GPA.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MGMT 34065 QUALITY ASSURANCE 3 Credit Hours**

Introduction to importance of quality assurance and tools used to accomplish better quality in goods and services. Topics TQM, Six Sigma, quality philosophies, sampling plans and statistical process control, ISO, quality competition and awards.

**Prerequisite:** MGMT 34060; and minimum 2.500 overall GPA.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MGMT 34156 BUSINESS ANALYTICS II 3 Credit Hours**

This course provides an introduction and application of business analytics to real-world problems. Specifically, students are exposed to methods and models that allows business users to make better decisions based on data. We discuss methods for collecting, cleaning, and visualizing data, linear, non-linear, and optimization models to help decision makers choose the best decision, and some advanced forms of modeling. The goal of this course is for students to be exposed to essential topics in business analytics, and to apply these techniques to real-world problems.

**Prerequisite:** BMRT 21004 or MATH 10041 or MGMT 24056.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MGMT 34157 INTRODUCTION TO HEALTHCARE SYSTEMS MANAGEMENT 3 Credit Hours**

Provides an overview of the management, economic and policy issues facing the healthcare, pharmaceutical, biotechnology and medical device industries. The course perspective is global, with emphasis on the U.S. as the largest and most profitable market.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MGMT 34158 MANAGERIAL AND TECHNOLOGICAL ASPECTS OF HEALTHCARE SYSTEMS MANAGEMENT 3 Credit Hours**

Introduce the main components of health care information technology, with emphasis on the components that distinguish the health care delivery system from other business enterprises. Prepares students as clinical managers and consultants who must rely upon or manage information technology to accomplish their objectives.

**Prerequisite:** MGMT 34157.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MGMT 34159 MANAGING HEALTHCARE SYSTEMS OPERATIONS 3 Credit Hours**

Operational process management, cost-control and productivity is critical to cost-effective healthcare. Covers topics in improving operations such as patient flow, quality (concepts and mechanics) and process improvement. Students become familiar with methods and resources for implementing change in a health care setting, such as a hospital or outpatient clinic. Provides skills to assess current hospital operations and to identify the appropriate tools to address various functional areas, useful for managers, consultants, clinical providers and others. Process improvement methods such as lean thinking, six sigma, statistical tools, flowcharting, queuing models and other tools are covered. Health care settings beyond the hospital, such as outpatient clinics, are included.

**Prerequisite:** MGMT 34157.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MGMT 34164 ORGANIZATIONAL MENTORING 3 Credit Hours**

Course promotes leadership development through the study of leadership principles, styles, and role models. Students will learn through class lecture and discussion as well as hand-on leadership experience in Exploring Business Interactive Business Seminars (i.e., business labs). Students will work with course instructor to develop a personal leadership plan.

**Prerequisite:** BUS 10123; and minimum 2.500 overall GPA; and special approval.

**Schedule Type:** Laboratory, Lecture, Combined Lecture and Lab

**Contact Hours:** 2 lecture, 2 lab

**Grade Mode:** Standard Letter

**MGMT 34165 DYNAMICS OF LEADERSHIP 3 Credit Hours**

This course discusses management and leadership concepts and does so by blending theory and practice. The courses uses case studies, practical application approaches, personal assessment and provides opportunities for students to develop individual and group leadership skills. In addition, many organizational behavior concepts are blended throughout the course.

**Prerequisite:** MGMT 24163 or BMRT 11009.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MGMT 34175 LEARNING TO LEAD 3 Credit Hours**

This is a hands-on learning and leadership course. Classroom time occurs over 4 days at a residential camp before the semester begins. Students learn about leadership from professors, experts in the field, and each other through interactive discussions and activities. During the semester students continue their leadership development working with a personal mentor, and practice their skills through community service projects.

**Prerequisite:** Special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MGMT 34185 INDIVIDUAL AND GROUP BEHAVIOR IN ORGANIZATIONS 3 Credit Hours**

Determinants of individual and group behavior within work organizations. Topics covered include, motivation, job design, learning, decision making, leadership and group behavior as they relate to performance and other outcomes in work organizations.

**Prerequisite:** MGMT 24163 or BMRT 11009.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MGMT 34280 ORGANIZATIONAL CHANGE MANAGEMENT 3 Credit Hours**

This course focuses on understanding the processes and challenges involved in responsible organizational change management. The course will provide students a blend of both research and best practice professional applications.

**Prerequisite:** MGMT 24163 or BMRT 11009; and MGMT 34165; and minimum 2.500 overall GPA.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MGMT 44009 THE BUSINESS CASE FOR SUSTAINABILITY 3 Credit Hours**

The course lays the foundation for sustainable development and the balance issues between economic, social and environmental interests. It frames the business enterprise within the natural and social environments, and surveys a variety of intersection points and the challenges they pose. Systems thinking and long term perspective are used to understand the potential consequences of organizational choices regarding goals and strategies, given consideration of how the natural environment increasingly drives the business environment.

**Prerequisite:** Minimum 2.500 overall GPA; and junior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MGMT 44061 OPERATIONS MANAGEMENT AND CONTROL 3 Credit Hours**

Introduces the student to the key functions of an operations planning and control system. Operations planning and control systems provide information for the efficient flow of materials, the effective utilization of people and equipment and the proper coordination of internal activities with suppliers and customers.

**Prerequisite:** Minimum 2.500 overall GPA.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MGMT 44062 SUPPLY CHAIN MANAGEMENT 3 Credit Hours**

Students learn the basic analytical tools needed to coordinate business operations across the value chain. Course involves hands-on coverage of supply chain management with emphasis on supplier partnering and development, customer relations management, strategic sourcing and pricing, e-business, measuring supply chain performance, mass customization, planning supply and demand coordination in the supply chain.

**Prerequisite:** Minimum 2.500 overall GPA; and junior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MGMT 44065 STRATEGIES IN PRODUCTION AND OPERATIONS MANAGEMENT (WIC) 3 Credit Hours**

Senior project in industrial management. Applies concepts from all prior coursework to the solution of real and simulated operating problems.

**Prerequisite:** Minimum 2.500 overall GPA.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Writing Intensive Course

**MGMT 44096 INDIVIDUAL INVESTIGATION IN MANAGEMENT 3 Credit Hours**

(Repeatable for credit) Presents opportunity to undertake research. Approval of topic and agreement to work with student must be secured from faculty member and the chairperson of the department prior to registration.

**Prerequisite:** Special approval.

**Schedule Type:** Individual Investigation

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**MGMT 44152 PROJECT MANAGEMENT 3 Credit Hours**

This course covers the fundamental concepts, procedures and processes related to managing projects from initiation through planning, execution and closing. It also introduces the principles, tools and methods used in project management, and the use of project management software (ProjectLibre) in managing projects. The topics covered in the course can be helpful in preparing for Project Management Professional (PMP) certification.

**Prerequisite:** Minimum 2.500 overall GPA; and junior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MGMT 44163 GLOBAL BUSINESS MANAGEMENT (WIC) 3 Credit Hours**

Provides an overview of contemporary issues and theoretical frameworks in the field of international strategic management using traditional lecture and practical application cases.

**Prerequisite:** Minimum C grade in ENG 21011, COMM 15000 and MATH 11010; minimum 2.50 overall GPA; and senior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Writing Intensive Course

**MGMT 44187 INTERNATIONAL MANAGEMENT EXPERIENCE 3 Credit Hours**

This course focuses on strategy and policy development and execution for gaining and sustaining global competitive advantage. Strategic management of entrepreneurial and well-established firms, and operational and financial structures of international firms and markets are discussed.

**Prerequisite:** MGMT 24163 with a minimum C grade; and minimum 2.500 overall GPA; and sophomore standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 9 other

**Grade Mode:** Standard Letter

**MGMT 44191 SENIOR RESEARCH SEMINAR IN MANAGEMENT 3 Credit Hours**

(Repeatable for credit) Combination of individual or group research and class discussion for superior students. Investigations in administration and organization conducted in accordance with scholarly interests of participants.

**Prerequisite:** Special approval.

**Schedule Type:** Seminar

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**MGMT 44192 INTERNSHIP IN MANAGEMENT (ELR) 3 Credit Hours**

(Repeatable for credit) A supervised field experience requiring a minimum of 145 hours of work at a cooperating organization. Requires regular contact with instructor and preparation of an internship report connecting academic coursework to on the job experiences.

**Prerequisite:** MGMT 24163 with minimum C grade; and minimum 2.500 overall GPA; and special approval.

**Schedule Type:** Practical Experience

**Contact Hours:** 15 other

**Grade Mode:** Standard Letter

**Attributes:** Experiential Learning Requirement

**MGMT 44285 INTEGRATED BUSINESS POLICY AND STRATEGY 3 Credit Hours**

Integration of the functional areas of business in the formulation and implementation of policy. Projects and case analyses of business situations provide students with the opportunity to apply analytical and creative problem solving skills.

**Prerequisite:** ACCT 23020 and ACCT 23021 and ECON 22060 and ECON 22061 and MKTG 25010 and CIS 24053 and MGMT 24056 and MGMT 24163 and MGMT 34060 and FIN 26074 and FIN 36053; and minimum 2.500 overall GPA; and major within the college of business administration; and senior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MGMT 44299 MANAGEMENT CAPSTONE (ELR) (WIC) 3 Credit Hours**

Course integrates various management concepts in informing a manager's strategic decision making process. Students use case analyses and class lectures to demonstrate their leadership abilities in different business scenarios.

**Prerequisite:** ACCT 23020 and ACCT 23021 and CIS 24053 and ECON 22060 and ECON 22061 and FIN 26074 and FIN 36053 and MGMT 24056 and MGMT 24163 and MGMT 34060 and MKTG 25010; and minimum 2.500 overall GPA; and declared in General Business major; and senior standing.

**Schedule Type:** Project or Capstone

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**Attributes:** Experiential Learning Requirement, Writing Intensive Course

**MGMT 44392 BUSINESS CONSULTING AND PRACTICUM (ELR) 3 Credit Hours**

Provides decision-making tools for solving real-world problems by building synergies in prior knowledge to create a synthesis of real life solutions delivery mechanisms underpinning them to pressing problems of the local and international community. The practicum component includes consulting experience with both for profit and not-for-profit business clients.

**Prerequisite:** MGMT 24163; and minimum 2.500 overall GPA; and senior standing.

**Schedule Type:** Practical Experience

**Contact Hours:** 15 other

**Grade Mode:** Standard Letter

**Attributes:** Experiential Learning Requirement

**MGMT 44395 SPECIAL TOPICS IN MANAGEMENT 3 Credit Hours**

(Repeatable for credit) Offered on a semester basis with different management topics and different faculty involved each time the course is offered.

**Prerequisite:** Minimum 2.500 overall GPA; and junior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Management and Information Systems (MIS)****MIS 54091 SEMINAR IN HUMAN RESOURCE MANAGEMENT 3 Credit Hours**

(Cross-listed with HRM 44091) In-depth readings, discussion projects and presentations in a specialized area of human resource management.

**Prerequisite:** Business administration major; and graduate standing.

**Schedule Type:** Seminar

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MIS 54183 DEVELOPMENT AND TRAINING HUMAN RESOURCES IN ORGANIZATIONS 3 Credit Hours**

(Cross-listed with HRM 44183) Course focus is quality training design, based upon theory and empirical research. Implications for practice and current challenges in employee training and development are also highlighted.

**Prerequisite:** Business administration major within the master of business administration degree; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MIS 54185 STAFFING HUMAN RESOURCES 3 Credit Hours**

(Cross-listed with HRM 44185) Staffing, development of systems to select, place, promote, and retain employees to enhance organizational effectiveness and maintain legal compliance are core HRM activities in organizations. This course will provide students with an understanding of the technical components of selection, including how to determine which applicant characteristics should be examined, what procedures should be used to gather information, and how that information should be combined to identify qualified job applicants. In addition, this course focuses on promotion and retention of employees.

**Prerequisite:** Business administration major within the master of business administration degree.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MIS 54445 GLOBAL HUMAN RESOURCE MANAGEMENT 3 Credit Hours**

(Cross-listed with HRM 44445) The course examines the impact of internationalization and cross-cultural challenges on organizations, the factors involved in selecting and managing an international workforce, the evaluation of employee relations and employment law, and address issues such as employee training and development, expatriation repatriation, performance management, and compensation issues, all from the perspective of managing an international organization.

**Prerequisite:** Business administration major within the master of business administration degree; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MIS 64005 ANALYTICS FOR DECISION MAKING 2 Credit Hours**

This course uses computer capabilities to analyze and understand a variety of statistical and business analytics techniques and how to apply these techniques to solving business problems.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**MIS 64011 SYSTEMS SIMULATION 3 Credit Hours**

Techniques and applications of computer simulation of existing or proposed real-world systems. Use of simulation language, simulations studies, analysis and interpretation of results.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MIS 64013 NONPARAMETRIC AND ROBUST STATISTICS 3 Credit Hours**

(Slashed with MIS 74013) A presentation of statistically sound techniques for those who need to be able to use nonparametric or robust methods to deal with non-normal distributions or outliers (common problems) in their data.

**Prerequisite:** MIS 64005 or 74005; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MIS 64017 MULTIVARIATE STATISTICS 3 Credit Hours**

This course is devoted to a study of multivariate statistical methods. Topics include multivariate analysis of variance, canonical correlation, principal component analysis, discriminant analysis cluster analysis and factor analysis.

**Prerequisite:** MIS 64023 or 74023; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MIS 64018 QUANTITATIVE MANAGEMENT MODELING 3 Credit Hours**

A variety of optimization and heuristic modeling techniques are explored. Decision-making environments, model selection, and interpretation are emphasized. Various linear and nonlinear mathematical programming techniques are the primary topic but are supplemented with other optimization and heuristic techniques.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MIS 64019 RESEARCH SEMINAR IN SUPPLY CHAIN MANAGEMENT 3 Credit Hours**

Research seminar designed primarily for students who seek an in-depth understanding of the current research literature in supply chain management and who are interested in doing research in supply chain management. Students study the academic literature with emphasis on the development and use of analytical tools and models to solve supply chain management problems. Specifically, the course will address quantitative modeling to support operational, tactical and strategic decision-making in supply chain management.

**Prerequisite:** Graduate standing.

**Schedule Type:** Seminar

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MIS 64020 ADVANCED STATISTICAL MODELS 3 Credit Hours**

This is a special focus course for which the topics will vary. It will generally include sampling techniques, experimental designs, similar statistical methods, internal and external validity and reliability issues.

**Prerequisite:** MIS 64023 or 74023; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MIS 64023 LINEAR STATISTICAL MODELS AND APPLICATIONS 3 Credit Hours**

Models and applications of simple and multiple regression, correlation and analysis of variance.

**Prerequisite:** MIS 64005 or 74005; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MIS 64026 GLOBAL SUPPLY CHAIN MANAGEMENT AND SUSTAINABLE STRATEGIES 3 Credit Hours**

Introduces the knowledge base needed to coordinate business operations across global supply chains. Addresses how to integrate traditional business operations so as to align them in support of inter-firm collaboration required to compete globally. Investigates specific topics relevant to supply chain management and offers a managerial orientation towards supporting global supply chain operations. Immerses students into responsible supply chain practices around the globe with strong emphasis and orientation towards sustainable (green) supply chains.

**Prerequisite:** MIS 64041; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MIS 64028 GLOBAL SUPPLY CHAIN BUSINESS MODELS 3 Credit Hours**

Focus on modeling techniques for supporting decision making in supply chain management. Introduces students to the problems facing a global supply chain manager and the implementation of spreadsheet-based models for solving problems that arise in the operation of a supply chain. Emphasis is placed on model formulation and interpretation in support of decisions to coordinate and improve supply chain operations.

**Prerequisite:** MIS 64026 or 64036; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MIS 64029 SUPPLY CHAIN AND VENDOR MANAGEMENT STRATEGIES 3 Credit Hours**

Building global 'relationships' are central pillars to effective supply chain management. There are strategic relationships, tactical relationships, transactional relationships, internal relationships, and of course, relationships with the government. As supply chains become global, managers have to consider cultural, regulatory, and communication differences to create and operate within the global village. Students learn how to deal with a rapidly changing landscape and understand how to deal with distributed resources, vendors, and people across cultures and convictions.

**Prerequisite:** MIS 64026; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MIS 64036 BUSINESS ANALYTICS 3 Credit Hours**

Overview of business analytics and its appropriate applications in various industries and functional areas. Critical thinking, problem definition, problem solving, effective communication, and leadership are emphasized. Methods such as data visualization and descriptive, predictive, and prescriptive analytics are covered from a broad perspective. This course is applied, hands-on, and case-based. Cases emphasize the communication of quantitative solutions to laypeople and required leadership during decision-making and implementation stages.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MIS 64037 ADVANCED DATA MINING AND PREDICTIVE ANALYTICS 3 Credit Hours**

Course extends the coverage of data mining and predictive analytics. Topics focus on the applied use of these techniques in realistic settings. Covers statistical and machine learning techniques.

**Prerequisite:** MIS 64036 or MIS 64060; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MIS 64038 ANALYTICS IN PRACTICE 3 Credit Hours**

Course focuses on supporting techniques and managerial and professional skills necessary to being an effective business analyst. Other topics include project management, requirements analysis, change management, team dynamics, leadership, ethics and effective communication between all stakeholders.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MIS 64041 OPERATIONS, SERVICE AND SUPPLY CHAIN MANAGEMENT 2 Credit Hours**

Develops a framework for analysis of operating problems. Uses computer, quantitative and behavioral models to develop operating plans consistent with organizations' competitive (or service) strategy.

**Prerequisite:** MIS 64005; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**MIS 64042 GLOBALIZATION AND TECHNOLOGY STRATEGY 2 Credit Hours**

This course is designed to provide both, general managers and Information Technology (IT) managers, an overview of the issues that are related to the management of an organization's IT assets. For general managers, the course offers frameworks for evaluating and guiding IT activities in their organizations. For the IT managers, the course offers frameworks for organizing and understanding the management challenges related to deployment of IT in their organizations. The focus is on decisions made by organizations as they attempt to deal with the challenges posed by IT in various functional areas of an organization.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**MIS 64047 MANUFACTURING TECHNOLOGY AND STRATEGY 3 Credit Hours**

This course provides the student with an introduction to modern techniques in manufacturing and the necessary strategic concepts to implement them. A similar discussion of service industries is also included.

**Prerequisite:** Graduate standing; and special approval of instructor.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter



**MIS 64050 ESSENTIALS OF BUSINESS MGMT 3 Credit Hours**

This is an introductory management course that discusses functional areas of business and their strategic positioning in delivering business solutions.

**Prerequisite:** Non-college of business administration majors; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MIS 64060 FUNDAMENTALS OF MACHINE LEARNING 3 Credit Hours**

In this course, you learn some fundamentals of machine learning. Specifically, we concentrate on classification modelling, segmentation and clustering and recommendation systems.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MIS 64061 ADVANCED MACHINE LEARNING 3 Credit Hours**

Introduction to deep learning and time series data analysis. Students consider applications of deep learning to computer vision, text analysis and sequences, and time series data.

**Prerequisite:** MIS 64060; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MIS 64080 EMERGING HARDWARE AND SOFTWARE TECHNOLOGIES 3 Credit Hours**

Investigation of selected emerging hardware and software technologies such as parallel processing systems, computer languages and operation systems, artificial intelligence, neural networks and chaos theory.

**Prerequisite:** Graduate standing; and special approval of instructor.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MIS 64081 DATA COMMUNICATIONS AND NETWORKING IN BUSINESS 3 Credit Hours**

An introduction to telecommunications and computer networks. Topics include telecommunications technologies and services communication standards and protocols local area networks and network management.

**Prerequisite:** Graduate standing; and special approval of instructor.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MIS 64082 DATABASE MANAGEMENT AND DATABASE ANALYTICS 3 Credit Hours**

The design, implementation and management of database management systems within organizations are studied from an applied perspective. Additional emphases include data warehousing, structured query language for analytics, and introductions to NoSQL databases and big data analytics.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MIS 64083 INFORMATION SECURITY: A MANAGERIAL PERSPECTIVE 3 Credit Hours**

Introduction to the information security areas that managers must understand in order to deal with today's security threat-laden environment. The emphasis is on the important principals and concepts that managers utilize to develop effective security risk management programs.

**Prerequisite:** Admission to MBA program or admission to MS IAKM program; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MIS 64092 INTERNSHIP IN BUSINESS ANALYTICS 3 Credit Hours**

(Repeatable for credit) A supervised field experience at a cooperating organization. Requires regular contact with instructor and preparation of an internship report connecting academic coursework to on-the-job experiences.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture, Practical Experience

**Contact Hours:** 1 lecture, 17 other

**Grade Mode:** Standard Letter

**MIS 64099 CAPSTONE PROJECT IN BUSINESS ANALYTICS 3 Credit Hours**

(Repeatable for credit) In this culminating project, students draw on the breadth and depth of the curriculum to address an industry supplied problem individually or in small teams. Projects will explore prescriptive analytics as is appropriate to their design project. In-progress (IP) mark permissible.

**Prerequisite:** MIS 64036 or MIS 64060; and graduate standing.

**Schedule Type:** Project or Capstone

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**MIS 64108 APPLIED TOPICS IN HUMAN RESOURCE MANAGEMENT 3 Credit Hours**

Course provides students an opportunity to learn about human resource management through an application of the material to real-world problems. Topics covered may include but not be limited to job analysis, selection methods, employee training, and performance evaluation.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MIS 64158 LEADERSHIP AND MANAGERIAL ASSESSMENT 2 Credit Hours**

Students develop an understanding of the leadership process. Through critical thinking, class discussions and class activities, they build skills in leading others, leading themselves, and teamwork.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**MIS 64160 LEADERSHIP AND ORGANIZATIONAL CHANGE 3 Credit Hours**

Course provides students in-depth knowledge of leading organization change. Covers analysis of existing conditions, drivers of change and readiness for change along with methods of change and change implementation.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MIS 64185 BUSINESS STRATEGY 3 Credit Hours**

Integrative approach to the study of policy formulation and implementation. Formalized planning systems reviewed; case analysis of actual business situations helps student further develop analytical and communication skills.

**Prerequisite:** Completion of 18 credit hours of college of business administration coursework; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MIS 64263 EMPLOYEE SELECTION AND APPRAISAL 3 Credit Hours**

This course will focus primarily on issues associated with the person/job matching process in modern organizations related to the selection and appraisal of employees.

**Prerequisite:** MIS 64271; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MIS 64270 ORGANIZATIONAL ANALYSIS AND DESIGN 3 Credit Hours**

Course provides students an in-depth examination of all of the factors influencing human behavior at work.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MIS 64271 HUMAN RESOURCE MANAGEMENT 2 Credit Hours**

This course explores the management of a firm's human resources from practical and theoretical perspectives of managing people at work. How high performance work practices (HPWPs) help businesses to motivate their employees for strategic competitive advantage is emphasized.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**MIS 64275 STRATEGIC GLOBAL MANAGEMENT 3 Credit Hours**

Strategic global management explores micro-level concepts and strategic managerial alternatives within the context of current global business operations in the political, economic and cultural environment facing today's manager.

**Prerequisite:** Completion of 24 credit hours of graduate courses from the college of business administration; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MIS 68051 BUSINESS PROFESSIONAL DEVELOPMENT I 1 Credit Hour**

Development of professional business skills for the full-time MBA student to use in both the graduate program and career development.

**Prerequisite:** Admission to MBA program; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 1 lecture

**Grade Mode:** Satisfactory/Unsatisfactory

**MIS 68052 BUSINESS PROFESSIONAL DEVELOPMENT II 1 Credit Hour**

Continuation of development of professional business skills for the full-time MBA student primarily focused on building and strengthening the skills needed by a manager for the workplace.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 1 lecture

**Grade Mode:** Satisfactory/Unsatisfactory

**MIS 74005 STATISTICS FOR MANAGEMENT I 3 Credit Hours**

This course uses computer capabilities to use and understand a variety of statistical techniques and applies these techniques to business problems.

**Prerequisite:** Admission to MBA program; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MIS 74013 NONPARAMETRIC AND ROBUST STATISTICS 3 Credit Hours**

(Slashed with MIS 64013) A presentation of statistically sound techniques for those who need to be able to use nonparametric or robust methods to deal with non-normal distributions or outliers (common problems) in their data.

**Prerequisite:** MIS 64005 or 74005; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MIS 74017 MULTIVARIATE STATISTICS 3 Credit Hours**

This course is devoted to a study of multivariate statistical methods.

Topics include multivariate analysis of variance, canonical correlation, principal component analysis, discriminant analysis, cluster analysis and factor analysis.

**Prerequisite:** MIS 64023 or 74023; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MIS 74018 QUANTITATIVE MANAGEMENT MODELING 3 Credit Hours**

A variety of optimization and heuristic modeling techniques are explored. Decision-making environments, model selection, and interpretation are emphasized. Various linear and nonlinear mathematical programming techniques are the primary topic but are supplemented with other optimization and heuristic techniques.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MIS 74019 RESEARCH SEMINAR IN SUPPLY CHAIN MANAGEMENT**  
**3 Credit Hours**

Research seminar designed primarily for students who seek an in-depth understanding of the current research literature in supply chain management and who are interested in doing research in supply chain management. Students study the academic literature with emphasis on the development and use of analytical tools and models to solve supply chain management problems. Specifically, the course will address quantitative modeling to support operational, tactical and strategic decision-making in supply chain management.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Seminar

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MIS 74020 ADVANCED STATISTICAL MODELS 3 Credit Hours**

This is a special focus course for which the topics will vary. It will generally include sampling techniques, experimental designs, similar statistical methods, internal and external validity, and reliability issues.

**Prerequisite:** MIS 64023 or 74023; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MIS 74023 LINEAR STATISTICAL MODELS AND APPLICATIONS 3 Credit Hours**

Models and applications of simple and multiple regression, correlation and analysis of variance.

**Prerequisite:** MIS 64005 or 74005; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MIS 74041 OPERATIONS MANAGEMENT 3 Credit Hours**

Develops a framework for analysis of operating problems. Uses computer quantitative and behavioral models to develop operating plans consistent with organizations' competitive (or service) strategy.

**Prerequisite:** MIS 64005 or 74005; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MIS 74042 GLOBALIZATION AND TECHNOLOGY STRATEGY 3 Credit Hours**

Focus is on the strategic issues around how a firm should manage its technology in a global market. Strategic issues include understanding the technological and competitive landscape, innovations, competitive advantages in the high-tech marketplace, outsourcing and information ethics. The core emphasis is on integrated decision-making in the age of globalization.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MIS 74047 MANUFACTURING TECHNOLOGY AND STRATEGY 3 Credit Hours**

This course provides the student with an introduction to modern techniques in manufacturing and the necessary strategic concepts to implement them. A similar discussion of service industries is also included.

**Prerequisite:** Doctoral standing; and special approval of instructor.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MIS 74080 EMERGING HARDWARE AND SOFTWARE TECHNOLOGIES**  
**3 Credit Hours**

Investigation of selected emerging hardware and software technologies such as parallel processing systems, computer languages and operation systems, artificial intelligence, neural networks and chaos theory.

**Prerequisite:** Doctoral standing; and special approval of instructor.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MIS 74081 DATA COMMUNICATIONS AND NETWORKING IN BUSINESS**  
**3 Credit Hours**

An introduction to telecommunications and computer networks. Topics include telecommunications technologies and services, communication standards and protocols, local area networks and network management.

**Prerequisite:** Doctoral standing; and special approval of instructor.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MIS 74082 DATABASE MANAGEMENT AND DATABASE ANALYTICS**  
**3 Credit Hours**

The design, implementation and management of database management systems within organizations are studied from an applied perspective. Additional emphases include data warehousing, structured query language for analytics, and introductions to NoSQL databases and big data analytics.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MIS 74160 LEADERSHIP AND ORGANIZATIONAL CHANGE 3 Credit Hours**

(Slashed with MIS 64160) Develop understanding of the theories and techniques needed for the successful management of significant organizational change with emphasis on discussion, exercises and case studies.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MIS 74185 BUSINESS STRATEGY 3 Credit Hours**

Integrative approach to the study of policy formulation and implementation. Formalized planning systems reviewed case analysis of actual business situations helps student further develop analytical and communication skills.

**Prerequisite:** Doctoral approval; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MIS 74263 EMPLOYEE SELECTION AND APPRAISAL 3 Credit Hours**

This course will focus primarily on issues associated with the person/job matching process in modern organizations related to the selection and appraisal of employees.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MIS 74270 ORGANIZATIONAL ANALYSIS 3 Credit Hours**

Theoretical basis and research findings are discussed, permitting the student to analyze and understand complex work organizations. Data provided prepares the student to analyze, design and solve organizational problems within the work environment.

**Prerequisite:** Doctoral standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MIS 74275 STRATEGIC GLOBAL MANAGEMENT 3 Credit Hours**

Strategic global management explores micro-level concepts and strategic managerial alternatives within the context of current global business operations in the political, economic and cultural environment facing today's manager.

**Prerequisite:** Doctoral standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MIS 84007 PHILOSOPHY OF SCIENCE AND BUSINESS MODELS 3 Credit Hours**

Introductory seminar for understanding the forms and the process of business research. Its major objective is to help seminar participants understand the various philosophies that drive business research in an academic community, and introductory methods of social science research. Additionally, the seminar seeks to develop participant motivation to become a contributor to the organizational sciences communities by examining: 1. The research process, methodologies and strategies. 2. Research Paradigms, Modes and Contexts of Inquiry. 3. The nature of organizational sciences research. 4. The major streams of business research. 5. Understanding ontological choice of constructs and defining epistemic relationships between constructs. 6. Building hypotheses and socio-technical models. 7. Research design, data requirements and collection techniques, ethics and philosophies.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MIS 84011 SYSTEMS SIMULATION 3 Credit Hours**

Techniques and applications of computer simulation of existing or proposed real-world systems. Use of simulation language, simulation studies, analysis of interpretation and of results.

**Prerequisite:** Doctoral standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MIS 84012 SCHEDULING AND PLANNING 3 Credit Hours**

Course is a doctoral seminar on scheduling and planning models that are used in operations and production management. The goal is to expose students to a portfolio of scheduling and planning models to stimulate research ideas in scheduling and planning models that will lead to the development of a research program for your doctoral research.

**Prerequisite:** Doctoral standing in the college of business administration.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MIS 84015 STOCHASTIC MODELS 3 Credit Hours**

Mathematical modeling of systems involving one or more random variables, and stochastic processes: basic probability theory; Poisson process, Markov chain and Markov process with applications to production, inventory, reliability and queueing systems.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MIS 84023 LINEAR STATISTICAL MODELS 3 Credit Hours**

Linear statistical models for regression and analysis of variance.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MIS 84045 SOCIAL ISSUES IN INFORMATION SYSTEMS 3 Credit Hours**

Social issues in information systems arise at the interface between information systems and individuals, groups and society. The course will begin with a broad exposure to current social issues, moving to an examination of specific issues in detail with issues chosen by student interest and instructor consent.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MIS 84047 VALUE AND SUPPLY CHAIN MANAGEMENT 3 Credit Hours**

This course is a doctoral seminar for students who seek an in-depth understanding of the current research literature in supply chain management. The seminar is designed into three modules. The first module covers the conceptual foundation for understanding value and supply chains from an interdisciplinary perspective. The second module focuses on the basis of supply chain modeling using optimization and simulation. The third module serves to integrate the previous modules with the objective of the student producing a research paper for journal submission.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MIS 84080 INNOVATION, ADOPTION, DIFFUSION 3 Credit Hours**

Provides students with theoretical foundations of adoption and diffusion of technological innovations in organizations and society. Topics include: determinants of organizational innovation by acquisition; individual- and organizational-level technology adoption; diffusion of technologies through social systems; and the infusion and assimilation of technologies in organizations.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MIS 84081 INFORMATION SYSTEMS STRATEGY AND INNOVATION 3 Credit Hours**

This course explores the basis of strategy, deployment and competition in high- technology industries. It introduces conceptual frameworks based on cutting-edge research in economics and strategy. The frameworks may seem abstract at first, but we will focus on mastering them will gain an in-depth understanding of how high-technology industries work and how to develop strategies for managing firms in such industries. Students will learn how to develop and apply such frameworks in their research.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MIS 84082 DATABASE MANAGEMENT SYSTEMS 3 Credit Hours**

In-depth investigation of intelligent database management systems in support of business decision- making. An understanding of relational databases is assumed. Object-orientation and other advanced database concepts will be explored.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MIS 84108 ACQUIRING HUMAN RESOURCES 3 Credit Hours**

Course provides foundation for understanding issues related to the acquisition of human resources in an organization. Students will learn issues related to employment law, job analysis, job design, planning, recruitment, selection.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MIS 84112 RESEARCH METHODOLOGY 3 Credit Hours**

The objectives of this course are: to formulate a research problem and develop testable research hypotheses; develop research skills by learning the different research methods and techniques; explain information contained in research statistical outputs such as SAS and SPSS enable students to conduct meaningful and high quality research in their specific field of interest.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MIS 84261 STRATEGIC DECISION-MAKING AND HUMAN RESOURCE MANAGEMENT 3 Credit Hours**

Provides a first graduate-level introduction to the fundamental concepts of HRM/OB and strategic decision-making.

**Prerequisite:** Doctoral standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MIS 84262 THEORY OF THE FIRM 3 Credit Hours**

Course focuses on developing a deep understanding of modern strategic theory in relation to other allied fields. Students will review fundamental concepts of strategic thinking and theory development and then move to contemporary theoretical issues including transaction-cost economics, the resource-based view, the emerging theories of real options and of dynamic capabilities, strategic optimization and constraint theory, and dealing with uncertainty through scenario-driven planning.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MIS 84263 OPTIMIZING HUMAN RESOURCES 3 Credit Hours**

Students learn areas of human resources management that include training and development, performance management, compensation and retention or turnover.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MIS 84266 STATISTICS FOR MANAGEMENT 3 Credit Hours**

Survey of the leading writers and research studies in the area of management systems. The course addresses methodologies, major theoretical developments and practical applications.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MIS 84275 THEORETICAL AND EMPIRICAL GLOBAL STRATEGY 3 Credit Hours**

Focuses on review and integration of the several streams of literature dealing with strategy for, and management of, the product-diversified and/or internationally-diversified firm. Also, in order to complement the emphasis of other doctoral offerings on strategy formulation topics, this seminar places a special emphasis on strategy process, organizational structure, and administrative mechanisms. In particular, it explores the foundations as well as current research on corporate governance, broadly define. This includes (I) the set of mechanisms available to align the interest of top managers to those of shareowners, as well as (II) the mechanisms available to motivate and control middle managers so that their decisions and behaviors are aligned with intended corporate and/or international strategy and goals.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MIS 84277 ORGANIZATIONAL BEHAVIOR AND THEORY 3 Credit Hours**

An examination of theory and research on individual and group behavior in organizations. Special attention is given to theories of motivation, job satisfaction, goal setting, task design, feedback systems, group dynamics, power and teams.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter



**MIS 84285 TECHNOLOGY AND INNOVATION STRATEGY 3 Credit Hours**

Covers topics pertaining to innovation management at micro-level (entrepreneurship, corporate entrepreneurship), meso-level (networks), and macro-level (cross-country and within-country comparisons).

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MIS 84291 SEMINAR IN MANAGEMENT SYSTEMS 3 Credit Hours**

(Repeatable for credit) Intensive investigation of selected topics in organization and strategic management. Student will be expected to undertake research on a topic determined in joint consultation with the instructor.

**Prerequisite:** Doctoral standing; and special approval of instructor.

**Schedule Type:** Seminar

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

## Department of Marketing and Entrepreneurship

### Entrepreneurship (ENTR)

**ENTR 17001 START-UP ENTREPRENEURS 1 Credit Hour**

This course enables students to learn about entrepreneurship directly from firsthand knowledge and experience drawn from a wide variety of successful real-world entrepreneurs. Throughout the course, those who have transformed a simple idea into a sustainable success share the beliefs and behaviors that helped them build a thriving new entity. Students will not receive graduation credit for both ENTR 17001 and ENTR 17002.

**Prerequisite:** Non-entrepreneurship majors or minors only (neither entrepreneurship majors nor entrepreneurship minors will receive credit for ENTR 17001 towards their degree).

**Schedule Type:** Lecture

**Contact Hours:** 1 lecture

**Grade Mode:** Standard Letter

**ENTR 17002 ENTREPRENEURIAL MINDSET 2 Credit Hours**

This course engages students in the study of the fundamental aspects of the entrepreneurial mindset. The course enables students to learn about entrepreneurship directly from firsthand knowledge and experience drawn from a wide variety of successful real-world entrepreneurs. The course next guides each student through the process of developing an entrepreneurial mindset. Finally, each student then uses the entrepreneurial mindset to recognize and evaluate opportunities in his or her own life, regardless of the student's chosen career path. Students will not receive graduation credit for both ENTR 17001 and ENTR 17002.

**Prerequisite:** Non-entrepreneurship majors or minors only (neither entrepreneurship majors nor entrepreneurship minors will receive credit for ENTR 17002 towards their degree).

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**ENTR 27056 INTRODUCTION TO ENTREPRENEURSHIP 3 Credit Hours**

The study of the entrepreneurial process from conception to birth of a new venture. This includes attributes of successful entrepreneurs, opportunity recognition, innovation, venture screening, risk assessment, risk tolerance, identification of resources and business planning to learn how to turn opportunities into viable business.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ENTR 27192 BEGINNING PRACTICUM (ELR) 1-4 Credit Hours**

(Repeatable for a maximum of 4 credit hours) This course offers the student a chance to explore the operations within an entrepreneurial venture through a real life consulting project. Students will work on a defined project for a small business or startup. Faculty and staff of the Center for Entrepreneurship and Business Innovation (CEBI) will be responsible for pairing students with projects. The time commitment for this course is approximately 50 hours per credit hour.

**Prerequisite:** ENTR 27056 with a minimum C grade.

**Schedule Type:** Practical Experience

**Contact Hours:** 1-4 other

**Grade Mode:** Standard Letter

**Attributes:** Experiential Learning Requirement

**ENTR 27466 SPEAKER SERIES IN ENTREPRENEURSHIP 1 Credit Hour**

Explores entrepreneurship based upon the experiences of a broad range of entrepreneurs. During the semester, at least eight entrepreneurs will share their paths in establishing a successful enterprise, including some of the obstacles and missteps they made along the way. This course is also offered in an online format.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 1 lecture

**Grade Mode:** Standard Letter

**ENTR 37040 ENTREPRENEURIAL TOOLS 3 Credit Hours**

Provides an overview of the analytical, communication, and decision-making skills that students will need to succeed in subsequent coursework and as an entrepreneur. Topics include strategic analysis, financial analysis, case analysis, decision-making, and persuasive communications. Incorporates professional development skills and opportunities. 25 overall GPA; and Entrepreneurship major or minor; or Arts Entrepreneurship minor

**Prerequisite:** ENTR 27056 with a minimum C grade; minimum 2.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ENTR 37045 SALES IN THE ENTREPRENEURIAL VENTURE 3 Credit Hours**

Selling and the management of the sales force in the entrepreneurial environment. Special focus is given to enhancing students' selling skills and background in developing an effective sales force for an entrepreneurial organization.

**Prerequisite:** ENTR 27056; and minimum 2.25 overall GPA; and Entrepreneurship major or minor.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ENTR 37065 ENTREPRENEURIAL FINANCE 3 Credit Hours**

Students are introduced to the key elements of finances in an entrepreneurial environment. The course is a mix of strategy and operating considerations for early stage businesses. Concepts that are taught include sources of capital, the economic ecosystem, core and adjacency strategies, strategy pivots, customer value creation and switching costs, pricing models, operating costs, cash flow planning, revenue forecasts and financial projections, private and public company analysis, and franchise evaluation. At the end of the course students should be able to think critically about business and make critical strategic evaluations during the course of a business lifecycle.

**Prerequisite:** ECON 22060 and ENTR 27056; minimum 2.25 overall GPA; and Entrepreneurship major or minor.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ENTR 37070 SOCIAL ENTREPRENEURSHIP 3 Credit Hours**

Social entrepreneurs create innovative solutions to solve challenging social and environmental issues affecting the world around them. In this course, students will learn how to lead and manage charities, non-government organizations, social oriented enterprises and not for profit organizations. Students will apply entrepreneurial business and innovative skills to effectively tackle global issues impacting society.

**Prerequisite:** ENTR 27056.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ENTR 37075 ENTREPRENEURIAL MARKETING 3 Credit Hours**

Application of marketing concepts to entrepreneurial situations. Emphasis is given to market segmentation and analysis, product and service positioning and market-oriented firm development.

**Prerequisite:** ENTR 27056; and minimum 2.25 overall GPA; and Entrepreneurship major or minor.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ENTR 37080 NEW VENTURE CREATION (WIC) 3 Credit Hours**

The process of formulating, planning and implementing a new venture. Apply the skills learned in the functional areas toward the goal of starting a business. Exposure to detailed descriptions of 'how to' embark on a new venture in a logical manner.

**Prerequisite:** ENTR 27056; and ENTR 37040 with a minimum C grade; and ENTR 37065 or FIN 36053; minimum C grade in ENG 21011, COMM 15000 and MATH 11010; minimum 2.25 overall GPA; and Entrepreneurship major or minor.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Writing Intensive Course

**ENTR 37192 ADVANCED PRACTICUM (ELR) 1-4 Credit Hours**

(Repeatable for a total of 4 credit hours) This course offers the student a chance to explore and apply their organizational leadership, teamwork, communication, critical thinking and problem solving skills in an entrepreneurial setting by providing a real life consulting experience. In this practicum, students will be responsible for defining and managing their projects, working with clients lined up through the faculty member and the Center for Entrepreneurship and Business Innovation. The time commitment for this course is approximately 50 hours per credit hour

**Prerequisite:** ENTR 27056 and ENTR 37075; and ENTR 37040 with a minimum C grade; and minimum 2.25 overall GPA; and Entrepreneurship major or minor.

**Schedule Type:** Practical Experience

**Contact Hours:** 1-4 other

**Grade Mode:** Standard Letter

**Attributes:** Experiential Learning Requirement

**ENTR 37195 SPECIAL TOPICS IN ENTREPRENEURSHIP I 1-4 Credit Hours**

(Repeatable for credit) Special topics course offered on an irregular basis; different topics and faculty involved each time the course is offered.

**Prerequisite:** ENTR 27056; and minimum 2.25 overall GPA.

**Schedule Type:** Lecture

**Contact Hours:** 1-4 lecture

**Grade Mode:** Standard Letter

**ENTR 45096 INDIVIDUAL INVESTIGATION IN ENTREPRENEURSHIP 1-3 Credit Hours**

(Repeatable for credit) Independent investigation of appropriate problem undertaken by a senior entrepreneurship major.

**Prerequisite:** Special approval.

**Schedule Type:** Individual Investigation

**Contact Hours:** 1-3 other

**Grade Mode:** Standard Letter

**ENTR 47045 ENTREPRENEURIAL LEADERSHIP 3 Credit Hours**

Application of business start-up and leadership concepts to entrepreneurial situations. Emphasis is given to mentoring and coaching students in ENTR 27065 or ENTR 27075.

**Prerequisite:** ENTR 47049 with a minimum B grade; and Entrepreneurship major.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ENTR 47047 STRATEGIC DILEMMAS IN ENTREPRENEURSHIP 3 Credit Hours**

Examines early challenges with strategic consequences faced by the entrepreneur. The topics covered include the timing of entrepreneurial entry, the type of entry (startup vs. franchise vs. acquisition), family business dilemmas, division of roles in a new venture, equity split, hiring dilemmas, investor dilemmas, exit choices and other dilemmas that have long-term consequences for entrepreneurs, their ventures, as well as for co-founders, employees, investors, and potential acquirers. The course heavily relies on case studies as a primary means of dilemma analysis.

**Prerequisite:** ENTR 27056 with a minimum C grade; minimum 2.25 overall GPA; and Entrepreneurship major or minor; and junior or senior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ENTR 47048 ENTREPRENEURIAL EXPERIENCE I (ELR) 3 Credit Hours**

First of a two-course sequence designed to immerse entrepreneurship majors into the dynamics of starting and running a business through the creation of their own venture. Students in this course will utilize a plan they developed in New Venture Creation, ENTR 37080, or create a new business plan. Activities may include identifying market needs, researching financial viability of the business venture to meet that need, marshaling the resources to launch a business, and launching the business.

**Prerequisite:** Minimum C grade in ENG 21011, ENTR 37080, COMM 15000 and MATH 11010; and minimum 2.250 overall GPA; and Entrepreneurship major.

**Schedule Type:** Laboratory

**Contact Hours:** 3 lab

**Grade Mode:** Standard Letter

**Attributes:** Experiential Learning Requirement

**ENTR 47049 ENTREPRENEURIAL EXPERIENCE II 3 Credit Hours**

Second of a two-course sequence designed to immerse entrepreneurship majors into the dynamics of starting and running a business through the creation of their own venture. Activities include growing the business started during Entrepreneurial Experience I, meeting all operational requirements of the business, evaluating the business, and determining whether to continue the business or shut it down upon completion of the course.

**Prerequisite:** ENTR 47048; and minimum 2.250 overall GPA; and Entrepreneurship major and minor.

**Schedule Type:** Laboratory

**Contact Hours:** 3 lab

**Grade Mode:** Standard Letter

**ENTR 47070 NEW ENTERPRISE FORMATION 3 Credit Hours**

This course will develop the student's ability to analyze, plan and implement a new venture. This course is both an experiential and "how to" course. Students will perform research to evaluate the viability of identified business opportunities by understanding the key industry factors, market and competitive factors and customer needs that affect those opportunities. Students will develop personal entrepreneurial capacity in the field or industry in which their business will operate. Students will do a feasibility analysis and develop a business canvas model that will result in a flexible business plan. Entrepreneurship majors will not receive credit for this course.

**Prerequisite:** Minimum C grade in ENG 21011 and ENTR 37040; and ENTR 27056 and ENTR 37065; and minimum 2.250 overall GPA; and non-Entrepreneurship majors only.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ENTR 47091 SEMINAR IN ENTREPRENEURSHIP 3 Credit Hours**

(Repeatable for credit) Current topics in entrepreneurship. Entrepreneurship majors will not receive credit for this course. Not open to Entrepreneurship majors.

**Prerequisite:** ENTR 27056; and student in the College of Business Administration; and junior or senior standing.

**Schedule Type:** Seminar

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**ENTR 47187 INTERNATIONAL EXPERIENCE IN ENTREPRENEURSHIP 3 Credit Hours**

The student will gain firsthand exposure to international businesses and organizations generally relating to business, and specifically relating to entrepreneurship. The course includes pre-trip orientation sessions, visits to international businesses and organizations, and opportunities for cultural activities.

**Prerequisite:** ENTR 27056; and Entrepreneurship major or minor; and special approval.

**Schedule Type:** Field Experience

**Contact Hours:** 9 other

**Grade Mode:** Standard Letter

**ENTR 47195 SPECIAL TOPICS IN ENTREPRENEURSHIP II 1-4 Credit Hours**

(Repeatable for credit) Special topics course offered on an irregular basis; different topics and faculty involved each time the course is offered.

**Prerequisite:** ENTR 27056; and minimum 2.25 overall GPA.

**Schedule Type:** Lecture

**Contact Hours:** 1-4 lecture

**Grade Mode:** Standard Letter

**ENTR 47292 ENTREPRENEURIAL INTERNSHIP (ELR) 3 Credit Hours**

Preparation of research report concurrent with on-the-job experience with cooperating business or other organization.

**Prerequisite:** Minimum 2.250 overall GPA; and Entrepreneurship major; and special approval.

**Schedule Type:** Practical Experience

**Contact Hours:** 9 other

**Grade Mode:** Standard Letter

**Attributes:** Experiential Learning Requirement

**ENTR 65051 TECHNOLOGY COMMERCIALIZATION 3 Credit Hours**

This course is designed to teach students how to evaluate opportunities for technology commercialization and how to apply the steps required in order to take a technological innovation to the marketplace.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Managerial Marketing (MMTG)****MMTG 35011 MARKETING TOOLS (WIC) 3 Credit Hours**

Provides an overview of the analytical, communication, and decision-making skills that students will need to succeed in subsequent coursework and as a marketing professional. Topics include strategic analysis, financial analysis, case analysis, marketing decision-making, and persuasive communications.

**Prerequisite:** Minimum C grade in ENG 21011, COMM 15000, MATH 11010; CIS 24053 or IT 11000; MKTG 25010 or BMRT 21050; and minimum 2.500 overall GPA; and managerial marketing major.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Writing Intensive Course

**MMTG 35021 RESEARCH FOR MARKETING DECISIONS 3 Credit Hours**

Focuses on the effective collection, organization, evaluation, and use of data to make marketing decisions. Emphasis on methods for collecting, analyzing, interpreting, and communicating data in the context of marketing decision-making.

**Prerequisite:** MMTG 35011 with a minimum C grade; and minimum 2.500 overall GPA; and managerial marketing major.

**Pre/corequisite:** MGMT 24056.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MMTG 35024 MARKETING TOOLS LABORATORY 1 Credit Hour**

Extended practice and use of software to enhance financial analysis and communication skills. Emphasizes the use of Microsoft Office software to enhance marketing decision-making and persuasive presentation skills. Incorporates professional development skills and opportunities. Should be taken concurrently with the Marketing Tools (MMTG 35011) course.

**Prerequisite:** ENG 21011, COMM 15000, MATH 11010; and CIS 24053 or IT 11000; and MKTG 25010 or BMRT 21050 with minimum C (2.00); minimum 2.500 overall GPA; and managerial marketing major.

**Schedule Type:** Laboratory

**Contact Hours:** 2 lab

**Grade Mode:** Standard Letter

**MMTG 35025 MARKETING COMMUNICATIONS LABORATORY 1 Credit Hour**

Extended practice and use of software to enhance marketing communications skills. Emphasizes the use of software to develop and execute specific marketing communications tools. Incorporates traditional and contemporary communications tools with a focus on tools that are typically created in-house by marketers.

**Prerequisite:** ENG 21011, COMM 15000 and MATH 11010; and CIS 24053 or IT 11000; and MKTG 25010 or BMRT 21050 with a minimum C grade; and minimum 2.500 overall GPA; and managerial marketing major.

**Schedule Type:** Laboratory

**Contact Hours:** 2 lab

**Grade Mode:** Standard Letter

**MMTG 35026 MARKETING RESEARCH LABORATORY 1 Credit Hour**

Extended practice and use of software to enhance data analysis and communication skills. Emphasizes the collection and analysis of research data for marketing decision-making. Incorporates the use of data analysis software. Should be taken concurrently with the Research for Marketing Decisions (MMTG 35021) course.

**Prerequisite:** MMTG 35011 with a minimum C grade; and minimum 2.500 overall GPA; and managerial marketing major.

**Schedule Type:** Laboratory

**Contact Hours:** 2 lab

**Grade Mode:** Standard Letter

**MMTG 35030 SALES AND SALES MANAGEMENT 3 Credit Hours**

Focuses on the fundamentals of selling and sales management with emphasis on persuasive communication and understanding others' perspectives to reach a "win-win" outcome. Incorporates sales management strategies and the planning and leadership skills of a sales manager. Students will engage in one-on-one role playing and simulated selling scenarios.

**Prerequisite:** MMTG 35011 with a minimum C grade; and minimum 2.500 overall GPA; and managerial marketing major.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MMTG 45020 COMPETITIVE MARKET ANALYSIS 3 Credit Hours**

Focuses on establishing and maintaining a competitive market position through product and pricing strategies driven by industry and competitive analysis. Students will participate in a marketing simulation where they will make marketing decisions and strive to compete effectively.

**Prerequisite:** MMTG 35021 and MMTG 35030; and minimum 2.500 overall GPA; and managerial marketing major.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MMTG 45023 CUSTOMER ANALYSIS 3 Credit Hours**

Focuses on the methods marketers use to analyze and understand their customers. Incorporates market segmentation and targeting, understanding consumer and buyer decision-making, and customer relationship management. Students will complete a segmentation plan for a client firm.

**Prerequisite:** MMTG 35021 and MMTG 35030; and minimum 2.500 overall GPA; and managerial marketing major.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MMTG 45039 PROMOTION MANAGEMENT 3 Credit Hours**

Focuses on the use of promotional tools to communicate marketing strategies to customers. Emphasis on both traditional and contemporary promotional tools, including new technologies in marketing communications. Considers the selection, planning, and implementation of promotional tools. Students will complete a communications plan for a client firm.

**Prerequisite:** MMTG 45020 and 45023; and minimum 2.500 overall GPA; and managerial marketing major.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MMTG 45040 INTEGRATED MARKETING STRATEGY (ELR) 3 Credit Hours**

Capstone course for managerial marketing majors. Emphasis is on the integration of marketing concepts, methods, and skills from prior coursework to make sound marketing decisions. Students will complete a marketing plan for a client firm.

**Prerequisite:** MMTG 45020 and MMTG 45023; and minimum 2.500 overall GPA; and managerial marketing major.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Experiential Learning Requirement

**MMTG 45195 SPECIAL TOPICS IN MANAGERIAL MARKETING 1-4 Credit Hours**

Special Topics in Managerial Marketing permits the exploration of topics not covered, or are not covered in as much depth, in scheduled courses. Hours of credit depend on scope of project.

**Prerequisite:** Minimum 2.500 overall GPA; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 1-4 lecture

**Grade Mode:** Standard Letter

**Marketing (MKTG)****MKTG 25010 PRINCIPLES OF MARKETING 3 Credit Hours**

(Equivalent to BMRT 21050) An overview of the processes, activities and problems associated with the conception, planning and execution of the pricing, promotion and distribution of ideas, goods and services to create exchange values in the market.

**Prerequisite:** ECON 22060.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** TAG Business

**MKTG 35030 MARKETING APPLICATIONS 3 Credit Hours**

Students learn and apply strategic and financial analysis skills to make real-world marketing decisions. Emphasis on marketing planning and core strategic decisions in marketing, including segmentation, targeting and positioning.

**Prerequisite:** MKTG 25010 with a minimum C grade; and minimum 2.500 overall GPA; and marketing major.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MKTG 35035 CONSUMER BEHAVIOR 3 Credit Hours**

Focus is on the decision-making processes of the individual consumer and the psychological, sociological, cultural and economic factors that influence those choices. Understanding why consumers behave in the way that they do is the heart of the study of consumer behavior and informs the formulation of marketing strategy. Periodically offered as an online course.

**Prerequisite:** MKTG 25010.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MKTG 35050 MARKETING RESEARCH 3 Credit Hours**

Focus is on the collection and analysis of new marketing data, both for exploratory and for decision-making purposes. Students work individually and in teams developing and communicating responses to managerial questions.

**Prerequisite:** MKTG 25010 and MGMT 24056; and minimum 2.500 overall GPA.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MKTG 35056 SOCIAL MEDIA MARKETING 3 Credit Hours**

Explore the various opportunities and risks that social media marketing holds for firms. During the course students will learn about topics such as social media's effect on marketing, creating and managing brand presences on social media, creating and marketing a branded viral video, identifying online influencers, analyzing.

**Prerequisite:** MKTG 25010; and minimum GPA 2.500; and junior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MKTG 35061 MARKETING ANALYTICS 3 Credit Hours**

This course presents an overview of the process of conducting marketing analytics in a business organization. Broadly, this process encompasses distilling management questions into its causes and consequences, determining data requirements, assembling a data set amenable to analysis, model selection, analysis, and the communication of analytics insights. Consequently, marketing analytics is discussed as a rich, data-driven process to visualize, predict and improve business outcomes, and how to think about analysis and how to communicate its results are emphasized.

**Prerequisite:** MGMT 24056; and a managerial marketing major or marketing major or entrepreneurship major.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MKTG 45045 ADVERTISING AND PROMOTION MANAGEMENT 3 Credit Hours**

Increases students' understanding of advertising concepts as well as structure and functions of different 'players' within the industry.

Integrates marketing and advertising theory with application in advertising decision-making. Periodically offered as an online course. Not open to Managerial Marketing (MMTG) majors.

**Prerequisite:** MKTG 25010 or BMRT 21050.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MKTG 45046 PERSONAL SELLING 3 Credit Hours**

Introduces students to effective communication, successful selling and persuasion techniques, building customer relationships, ethics, the buying and selling process, and developing professional sales calls.

**Prerequisite:** MKTG 25010 or BMRT 21050 or MKTG 35035; and not open to managerial marketing majors.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MKTG 45047 ADVANCED PROFESSIONAL SELLING 3 Credit Hours**

Builds on the foundation established in Personal Selling and Sales Management (MKTG 45046) by applying sales concepts, participating in live sales calls with Business Partner Company Sales Reps, spending highly focused time in role plays with immediate feedback from the instructors, interacting with guest speakers who are experts in sales, and studying advanced sales and persuasion techniques. Experiential course that requires some flexibility with scheduling for the shadow experiences.

**Prerequisite:** MKTG 45046 or MMTG 35030 or ENTR 37045; and minimum 2.500 overall GPA.

**Schedule Type:** Laboratory, Lecture, Combined Lecture and Lab

**Contact Hours:** 2 lecture, 2 lab

**Grade Mode:** Standard Letter



**MKTG 45060 INTERNATIONAL MARKETING 3 Credit Hours**

Examination of international marketing in terms of global markets and trade. Emphasizes differences among markets caused by geography, politics, economics, culture, commercial policy and trade practices. Periodically offered as an online course.

**Prerequisite:** MKTG 25010 or BMRT 21050 or MKTG 35035.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MKTG 45082 SERVICES MARKETING 3 Credit Hours**

Provides an integrated understanding of what is required to develop and market a successful service to a chosen target market. Positioning of a service product can be achieved through the "4 Ps" tactics originally used for goods marketing in addition to three new Ps" for services, which include design of the delivery process, recruitment and training of people, and developing appropriate physical evidence. Readings, lectures, tests, and experiential activities are used to develop and assess learning.

**Prerequisite:** MKTG 25010; and minimum 2.500 overall GPA.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MKTG 45084 MARKETING POLICIES AND STRATEGIES (ELR) (WIC) 3 Credit Hours**

Capstone course for marketing majors. Course deals with marketing policies and strategies with emphasis on managerial decision-making case approach.

**Prerequisite:** MKTG 35030 with a minimum C grade; and minimum 2.500 overall GPA; and marketing major; and senior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Experiential Learning Requirement, Writing Intensive Course

**MKTG 45091 MARKETING SEMINAR 1-4 Credit Hours**

(Repeatable for credit) Current topics in marketing. Certain sections of this variable topic seminar may require instructor special approval or have further prerequisites. See current schedule of classes.

**Prerequisite:** MKTG 25010 or BMRT 21050 or MKTG 35035; and minimum 2.500 overall GPA.

**Schedule Type:** Seminar

**Contact Hours:** 1-4 other

**Grade Mode:** Standard Letter

**MKTG 45095 SPECIAL TOPICS IN MARKETING 1-4 Credit Hours**

(Repeatable for credit) Special Topics in Marketing permits the exploration of topics that are not covered, or not covered in as much depth, in scheduled courses. Credit hours depend on the scope of the project.

**Prerequisite:** Minimum 2.500 overall GPA; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 1-4 lecture

**Grade Mode:** Standard Letter

**MKTG 45096 INDIVIDUAL INVESTIGATION IN MARKETING 1-3 Credit Hours**

(Repeatable for credit) Independent investigation of appropriate problem undertaken by a senior marketing major.

**Prerequisite:** Special approval.

**Schedule Type:** Individual Investigation

**Contact Hours:** 1-6 other

**Grade Mode:** Standard Letter

**MKTG 45187 INTERNATIONAL EXPERIENCE IN MARKETING 3 Credit Hours**

The student will gain firsthand exposure to international businesses and organizations generally relating to business and specifically relating to marketing. The course includes pre-trip orientation sessions, visits to international businesses and organizations, and opportunities for cultural activities.

**Prerequisite:** MKTG 25010; and a marketing, managerial marketing, or entrepreneurship major; and special approval.

**Schedule Type:** Field Experience

**Contact Hours:** 9 other

**Grade Mode:** Standard Letter

**MKTG 45192 SALES INTERNSHIP (ELR) 3 Credit Hours**

Supervised practical experience in sales with a business. An internship application and faculty approval are needed prior to registration for this course.

**Prerequisite:** MKTG 45046 or MMTG 35030 or ENTR 37045; and special approval.

**Schedule Type:** Practical Experience

**Contact Hours:** 9 other

**Grade Mode:** Standard Letter

**Attributes:** Experiential Learning Requirement

**MKTG 45292 MARKETING INTERNSHIP (ELR) 3 Credit Hours**

Preparation of research report concurrent with on-the-job experience with cooperating business or other organization.

**Prerequisite:** MKTG 25010 or BMRT 21050 or MKTG 35035; and special approval.

**Schedule Type:** Individual Investigation, Practical Experience

**Contact Hours:** 9 other

**Grade Mode:** Standard Letter

**Attributes:** Experiential Learning Requirement

**MKTG 65050 MODERN ENTREPRENEURIAL MANAGEMENT 3 Credit Hours**

(Slashed with MKTG 75050) Analysis and application of the key elements of both entrepreneurship (new business starts) and entrepreneurship in existing companies.

**Prerequisite:** Completion of 24 credit hours of Business Administration (BAD) courses and Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MKTG 65051 MARKETING MANAGEMENT 2 Credit Hours**

Analysis of marketing management at a level appropriate to students with limited background in the subject. The course will include lectures, and will integrate a major experiential component (e.g., a marketing simulation, a client-based project, etc.). Services, global marketing, and legal and ethical issues will be integrated across topic areas.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**MKTG 65053 PROMOTION MANAGEMENT 3 Credit Hours**  
 (Slashed with MKTG 75053) All elements of the promotional mix (advertising, sales, promotion, publicity, public relations and personal selling) are considered as part of an integrated communications strategy. Primary emphasis is placed on advertising. A comprehensive set of analytical frameworks are developed, covering a range of topics from the firm's marketing strategy to the message strategy embodied in a single advertisement. These analytic frameworks are applied to a series of case studies throughout the course.

**Prerequisite:** MKTG 65051; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MKTG 65054 INTERNATIONAL MARKETING 3 Credit Hours**

Course focuses on the types of marketing decisions facing the international marketing manager or vice president in the multinational firm.

**Prerequisite:** MKTG 65051; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MKTG 65057 MARKETING RESEARCH 3 Credit Hours**

(Slashed with MKTG 75057) Examination of the research process as applied to decision making. Course focuses on steps in problem formulation the research process application of techniques and basis data analysis using SPSS-PC.

**Prerequisite:** MKTG 65051; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MKTG 65060 MARKETING STRATEGY AND PLANNING 3 Credit Hours**

Focuses on integration of marketing planning into the strategic planning process. Deals mostly with marketing strategy at the level of senior management rather than operations.

**Prerequisite:** MKTG 65051; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MKTG 65064 BUYER BEHAVIOR 3 Credit Hours**

(Slashed with MKTG 75064) An analysis of the concepts of buyer/consumer behavior, focusing on the behavioral sciences theories underlying marketing models and their application to marketing strategies.

**Prerequisite:** MKTG 65051; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MKTG 65184 INTERNATIONAL BUSINESS 3 Credit Hours**

(Slashed with MKTG 75184) Study of the business firm in a global context. Application of theory and practice of American business administration to international operations of firms.

**Prerequisite:** ECON 62021; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MKTG 75050 MODERN ENTREPRENEURIAL MANAGEMENT 3 Credit Hours**

(Slashed with MKTG 65050) Analysis and application of the key elements of both entrepreneurship (new business starts) and entrepreneurship in existing companies.

**Prerequisite:** Doctoral standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MKTG 75051 MARKETING MANAGEMENT 3 Credit Hours**

(Slashed with MKTG 65051) Analysis of marketing management at a level appropriate to students with limited background in the subject. Course encompasses lecture discussion problems and cases.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MKTG 75053 PROMOTION MANAGEMENT 3 Credit Hours**

(Slashed with MKTG 65053) All elements of the promotional mix (advertising, sales, promotion, publicity, public relations and personal selling) are considered as part of an integrated communications strategy. Primary emphasis is placed on advertising. A comprehensive set of analytical frameworks are developed, covering a range of topics from the firm's marketing strategy to the message strategy embodied in a single advertisement. These analytic frameworks are applied to a series of case studies throughout the course.

**Prerequisite:** MKTG 75051; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MKTG 75057 MARKETING RESEARCH 3 Credit Hours**

(Slashed with MKTG 65057) Examination of the research process as applied to decision making. Course focuses on steps in problem formulation, the research process, application of techniques, and basis data analysis using SPSS-PC.

**Prerequisite:** MKTG 65051 or 75051; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MKTG 75064 BUYER BEHAVIOR 3 Credit Hours**

(Slashed with MKTG 65064) An analysis of the concepts of buyer/consumer behavior, focusing on the behavioral sciences theories underlying marketing models and their application to marketing strategies.

**Prerequisite:** MKTG 75051; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MKTG 75184 INTERNATIONAL BUSINESS 3 Credit Hours**

(Slashed with MKTG 65184) Study of the business firm in a global context. Application of theory and practice of American business administration to international operations of firms.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MKTG 85054 INTERNATIONAL MARKETING 3 Credit Hours**

This course focuses on the types of marketing decisions facing the international marketing manager or vice president in the multinational firm.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MKTG 85057 RESEARCH DESIGN 3 Credit Hours**

Focuses on the construction of a conceptual framework; the design of an experiment sampling plan data collection methods and the application of statistical techniques.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Seminar

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MKTG 85060 MARKETING STRATEGY AND PLANNING 3 Credit Hours**

Focuses on integration of marketing planning into the strategic planning process. Deals mostly with marketing strategy at the level of senior management rather than operations.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MKTG 85063 ANALYTICAL METHODS IN MARKETING RESEARCH 3 Credit Hours**

Application of multivariate statistical techniques in marketing research.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter-IP

**MKTG 85064 BUYER BEHAVIOR 3 Credit Hours**

An analysis of extant and emerging theories, models and concepts of buyer consumer behavior and their development and testing.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter-IP

**MKTG 85066 MARKETING THEORY 3 Credit Hours**

The central objective of the course is to develop the doctoral student's background in marketing theory, theory construction and the creation of marketing knowledge.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter-IP

**MKTG 85091 ADVANCED INTERNATIONAL MARKETING SEMINAR 3 Credit Hours**

(Repeatable for credit) Covers the theoretical research development of the field of international marketing.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Seminar

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter-IP

**MKTG 85097 SEMINAR IN MARKETING AND ENTREPRENEURSHIP 3 Credit Hours**

(Repeatable for a maximum of 6 credit hours) This course is designed to provide doctoral students with a broad exposure to a current and substantive topic area in either marketing or entrepreneurship. This course will expose students to classic and new ideas, help them critically analyze these ideas, and provide them with the opportunity to relate these ideas to their own research interests.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Colloquium

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**MKTG 85098 RESEARCH IN MARKETING 3 Credit Hours**

(Repeatable for credit) Designed to assist students in developing dissertation topics or to provide an opportunity to study material or topic not covered elsewhere in the program.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Research

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

## Business Administration - Ph.D.

### College of Business Administration

Business Administration Building

Kent Campus

330-672-2772

[www.kent.edu/business](http://www.kent.edu/business)

## Description

**Admission to the Supply Chain Management concentration has been suspended temporarily as of fall 2019.**

The Ph.D. in Business Administration prepares doctoral students to conduct high-quality, scholarly research and teach effectively in the field of business. The degree's purpose is to develop the intellectual potential of the student through emphasis on specific areas of concentration within the framework of the general field of business administration. Academic objectives are accomplished through close student-faculty working relationships. The program provides the flexibility to allow for a considerable degree of individual design, based upon the career needs and objectives of the student.

The Business Administration major comprises the following concentrations:

- The **Accounting** concentration prepares highly qualified candidates for faculty positions in colleges and universities. In addition to completing doctoral-level coursework and a dissertation, students conduct scholarly research and become effective teachers.
- The **Finance** concentration prepares students for finance faculty positions in colleges and universities. Students complete courses in business and finance, learn how to conduct high-quality, scholarly research and become effective teachers.
- The **Information Systems** concentration creates a strong grounding in areas of behavioral, strategic and economic aspects of global IS decision-making. Students are trained to become renowned scholars and exceptional teachers.
- The **Management** concentration prepares students for academic positions in the field of management. The program is flexible and interdisciplinary with students being able to specialize in

general management, strategic management or human resource management. Students are trained to be outstanding researchers and teachers.

- The **Marketing** concentration prepares highly qualified candidates for positions of professional responsibility in university teaching and research, or administrative and research careers in governmental and private organizations. The program offers a solid balance of teaching experience and preparation for conducting scientific research.
- The **Supply Chain Management** concentration prepares students to address our technology-powered economy by information and driven by knowledge. The concentration educates students in the latest thinking, theory and empirical research in order to address the supply and value chain management challenges facing organizations today.

In addition to declaring a concentration, students select a doctoral minor (Accounting, Applied Statistics, Finance, Information Systems, International Business, Management Systems or Marketing), or they may tailor a 12-credit hour research focus with coordinator approval.

### Fully Offered At:

- Kent Campus

## Accreditation

AACSB International - The Association to Advance Collegiate Schools of Business

## Admission Requirements

- Master's degree from an accredited college or university for unconditional admission
- Minimum 3.000 GPA on a 4.000 point scale for unconditional admission
- Official transcript(s)
- GMAT scores required for the Accounting concentration; for all other concentrations require concentrations, GMAT or GRE scores (effective fall 2021, all concentrations will accept GMAT or GRE scores)
- Résumé
- Goal statement
- Three letters of recommendation
- English language proficiency - all international students must provide proof of English language proficiency (unless they meet specific exceptions) by earning one of the following:
  - Minimum 600 TOEFL PBT score (paper-based version)
  - Minimum 100 TOEFL IBT score (internet-based version)
  - Minimum 85 MELAB score
  - Minimum 7.0 IELTS score
  - Minimum 68 PTE score
  - Minimum 110 Duolingo English Test score

Admission to the Ph.D. degree is in the fall semester only. For more information about graduate admissions, please visit the Graduate Studies admission website. For more information on international admissions, visit the Office of Global Education's admission website.

## Program Learning Outcomes

Graduates of this program will be able to:

1. Demonstrate an in-depth knowledge and understanding of their interest area and display a high degree of mastery in appropriate theories, analytical skills, research design and methodologies.
2. Conduct original research by integrating knowledge of specific areas of interest and successfully articulating their research in written form.

## Program Requirements

### Major Requirements

Code	Title	Credit Hours
<b>Major Requirements</b>		
BAD 71094	COLLEGE TEACHING	1
BAD 80199	DISSERTATION I <sup>1</sup>	30
ECON 72054	ECONOMETRICS I	3
or MIS 84023	LINEAR STATISTICAL MODELS	
Department Electives <sup>2</sup>		0-9
Major Electives, choose from the following:		6
ECON 72050	MICROECONOMIC THEORY I	
ECON 72051	MACROECONOMIC THEORY I	
ECON 72055	ECONOMETRICS II	
ECON 72056	TIME SERIES ANALYSIS	
MIS 84011	SYSTEMS SIMULATION	
MIS 74017	MULTIVARIATE STATISTICS	
MIS 84007	PHILOSOPHY OF SCIENCE AND BUSINESS MODELS	
MIS 84015	STOCHASTIC MODELS	
MIS 84112	RESEARCH METHODOLOGY	
MKTG 85057	RESEARCH DESIGN	
MKTG 85063	ANALYTICAL METHODS IN MARKETING RESEARCH	
MKTG 85097	SEMINAR IN MARKETING AND ENTREPRENEURSHIP	
<b>Minors</b>		
Choose from the following: <sup>3</sup>		12
Doctoral Accounting		
Doctoral Applied Statistics		
Doctoral Finance		
Doctoral Information Systems		
Doctoral International Business		
Doctoral Management Systems		
Doctoral Marketing		
<b>Concentrations</b>		
Choose from the following:		15
Accounting		
Finance		
Information Systems		
Management		
Marketing		
Supply Chain Management		
Minimum Total Credit Hours:		67

- <sup>1</sup> Successful completion of the comprehensive examinations and approval of a dissertation topic shall constitute admission to candidacy for the Ph.D. degree. The final phase of the Ph.D. program is the preparation of the Ph.D. dissertation. Upon completion, the dissertation is defended before a committee of the graduate faculty. Each doctoral candidate must register for BAD 80199 for a total of 30 credit hours. It is expected that a doctoral candidate will continuously register for Dissertation I, and thereafter BAD 80299, each semester, until all requirements for the degree have been met.
- <sup>2</sup> Department elective need is determined by department.
- <sup>3</sup> As an alternate to declaring a minor, students may select four courses (12 credit hours) specific to a research focus, with approval of area coordinator.

## Accounting Concentration Requirements

Code	Title	Credit Hours
<b>Concentration Requirements</b>		
ACCT 83098	RESEARCH IN ACCOUNTING	3
ACCT 83031	AUDITING ISSUES	3
ACCT 83033	MANAGERIAL ACCOUNTING ISSUES	3
ACCT 83037	FINANCIAL ACCOUNTING ISSUES	3
ACCT 83038	BASIC ACCOUNTING RESEARCH METHODOLOGY	3
Minimum Total Credit Hours:		15

## Finance Concentration Requirements

Code	Title	Credit Hours
<b>Concentration Requirements</b>		
FIN 86061	THEORIES OF FINANCIAL DECISION-MAKING	3
FIN 86062	RESEARCH METHODS IN CORPORATE FINANCE	3
FIN 86064	RESEARCH METHODS IN DERIVATIVES	3
FIN 86066	RESEARCH METHODS INVESTMENTS	3
FIN 86098	RESEARCH TOPICS IN FINANCE	3
Minimum Total Credit Hours:		15

## Information Systems Concentration Requirements

Code	Title	Credit Hours
<b>Concentration Requirements</b>		
MIS 84080	INNOVATION, ADOPTION, DIFFUSION	3
MIS 84045	SOCIAL ISSUES IN INFORMATION SYSTEMS	3
MIS 84081	INFORMATION SYSTEMS STRATEGY AND INNOVATION	3
MIS 84277	ORGANIZATIONAL BEHAVIOR AND THEORY	3
MIS 84291	SEMINAR IN MANAGEMENT SYSTEMS	3
Minimum Total Credit Hours:		15

## Management Concentration Requirements

Code	Title	Credit Hours
<b>Concentration Requirements</b>		
Concentration Electives, choose from the following:		15
ECON 72055	ECONOMETRICS II	
ECON 82072	ECONOMICS OF LABOR MARKETS	
Eval 85516	QUALITATIVE RESEARCH DESIGN	

MIS 84047	VALUE AND SUPPLY CHAIN MANAGEMENT
MIS 84108	ACQUIRING HUMAN RESOURCES
MIS 84262	THEORY OF THE FIRM
MIS 84263	OPTIMIZING HUMAN RESOURCES
MIS 84266	STATISTICS FOR MANAGEMENT
MIS 84275	THEORETICAL AND EMPIRICAL GLOBAL STRATEGY
MIS 84277	ORGANIZATIONAL BEHAVIOR AND THEORY
MIS 84285	TECHNOLOGY AND INNOVATION STRATEGY
MIS 84291	SEMINAR IN MANAGEMENT SYSTEMS
PSYC 71654	QUANTITATIVE STATISTICAL ANALYSIS II
SOC 72220	SURVEY RESEARCH METHODS

Minimum Total Credit Hours: 15

## Marketing Concentration Requirements

Code	Title	Credit Hours
<b>Concentration Requirements</b>		
MKTG 85054	INTERNATIONAL MARKETING	3
or MKTG 85060	MARKETING STRATEGY AND PLANNING	
or MKTG 85097	SEMINAR IN MARKETING AND ENTREPRENEURSHIP	
MKTG 85057	RESEARCH DESIGN	3
MKTG 85063	ANALYTICAL METHODS IN MARKETING RESEARCH	3
MKTG 85064	BUYER BEHAVIOR	3
MKTG 85066	MARKETING THEORY	3
Minimum Total Credit Hours:		15

## Supply Chain Management Concentration Requirements

Code	Title	Credit Hours
<b>Concentration Requirements</b>		
MIS 74019	RESEARCH SEMINAR IN SUPPLY CHAIN MANAGEMENT	3
MIS 84011	SYSTEMS SIMULATION	3
MIS 84012	SCHEDULING AND PLANNING	3
MIS 84015	STOCHASTIC MODELS	3
MIS 84291	SEMINAR IN MANAGEMENT SYSTEMS	3
Minimum Total Credit Hours:		15

## Department of Accounting

### College of Business Administration

Department of Accounting  
 550 Business Administration Building  
 Kent Campus  
 330-672-2545  
[accounting@kent.edu](mailto:accounting@kent.edu)  
[www.kent.edu/business/accounting](http://www.kent.edu/business/accounting)

## Undergraduate Programs

- Accounting - B.B.A.



## Minors

### Undergraduate

- Accounting

### Graduate

- Doctoral Accounting

## Graduate Programs

- Accounting - M.S.A.

## Department of Accounting Faculty

- Alam, Pervaiz (1985), Professor, Ph.D, University of Houston, Downtown, 1984
- Altieri, Mark P. (1992), Professor, L.L.M., New York University, 1982
- Bolchalk, James R. (2006), Associate Professor, Ph.D., University of Akron, 1996
- Buchanan, Jessica (2017), Assistant Professor, Ph.D., University of Massachusetts Amherst, 2017
- Fang, Shunlan (2014), Assistant Professor, Ph.D., Temple University, 2013
- Gletsu, David C. (2019), Lecturer
- Laksmana, Indrarini V. (2004), Associate Professor, Ph.D., Georgia State University, 2004
- Li, Wei (2006), Associate Professor & Department Chair, M.B.A., Washington State University, 2001
- Nett, Malinda B. (2009), Assistant Professor, M.Tax., University of Akron, 1995
- Nett, Malinda B. (2009), Assistant Professor
- Rose, John M. (2003), Associate Lecturer, M.B.A., Kent State University, 1994
- Sellers, R. Drew (2011), Associate Professor, D.M., Case Western Reserve University, 2008
- Tietz, Wendy M. (2000), Professor, Ph.D., Kent State University, 2007

## Accounting (ACCT)

### ACCT 23020 INTRODUCTION TO FINANCIAL ACCOUNTING 3 Credit Hours

(Equivalent to ACTT 11000) Introduction to the basic concepts and standards underlying financial accounting. Topics to be covered include revenue recognition, receivables, inventory, long-lived assets, liabilities and stockholders' equity. The impact of transactions on the accounting equation and financial statements (balance sheet, income statement and cash flows) is emphasized.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** TAG Business

### ACCT 23021 INTRODUCTION TO MANAGERIAL ACCOUNTING 3 Credit Hours

(Equivalent to ACTT 11001) Introduction to managerial accounting concepts and tools that can be used to support decision-making in organizations. Includes coverage of cost systems, cost behavior, cost-volume-profit analysis, relevant costs and budgets.

**Prerequisite:** ACCT 23020 or ACTT 11000.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** TAG Business

### ACCT 33000 FUNDAMENTAL TAX PROCEDURES 3 Credit Hours

Non-technical presentation of federal income tax laws and regulations as they relate to individuals.

**Prerequisite:** ACCT 23020 or ACTT 11000; and ACCT 23021 or ACTT 11001; and minimum 2.500 overall GPA; not open to students declared in the Accounting major.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

### ACCT 33001 INTERMEDIATE FINANCIAL ACCOUNTING I 3 Credit Hours

Review of the accounting cycle; financial statement preparation, accounting for sales, receivables, inventory, current liabilities and long-term assets. Professional accounting research skills are emphasized.

**Prerequisite:** MATH 11012 or MATH 12002; and minimum B- grade in ACCT 23020 (or ACTT 11000) and ACCT 23021 (or ACTT 11001); and minimum C grade in ENG 21011 and COMM 15000 and MATH 11010; and minimum 2.500 overall GPA; and Accounting major or minor.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

### ACCT 33004 INTRODUCTION TO ACCOUNTING SYSTEMS 3 Credit Hours

Overview of accounting information systems with emphasis on internal controls. Course explores how the integrity and efficiency of business process are supported by information systems. Interpersonal skills and computer applications are emphasized.

**Prerequisite:** CIS 24053; and MATH 11012 or MATH 12002; and minimum B- grade in ACCT 23021 (or ACTT 11001) and ACCT 23020 (or ACTT 11000); and minimum C grade in ENG 21011, COMM 15000 and MATH 11010; and minimum 2.500 overall GPA; and Accounting major or minor.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

### ACCT 33010 COST ACCOUNTING 3 Credit Hours

Cost accounting for manufacturing and service organizations, including cost determination, cost analysis, costing systems, cost-volume-profit analysis, budgeting, cost allocation, activity-based costing, capital investment and performance measurement. Computer application skills are emphasized.

**Prerequisite:** Minimum C grade in ACCT 33001 and ACCT 33004; and minimum 2.500 overall GPA; and Accounting major or minor.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ACCT 33012 INTERMEDIATE FINANCIAL ACCOUNTING II 3 Credit Hours**

Accounting for long-term liabilities, debt and equity investments, leases, pensions and other post-retirement benefits, income tax allocation, owners' equity and statement of cash flows. Professional accounting research skills and written communication skills are emphasized.

**Prerequisite:** Minimum C grade in ACCT 33001 and ACCT 33004; and minimum 2.500 overall GPA; and Accounting major and minor.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ACCT 33061 FINANCIAL REPORTING ISSUES AND ANALYSIS 3 Credit Hours**

Financial analysis and interpretation of issues relative to the balance sheet, income statement and cash flow statement. Topics include assets, liabilities, owner's equity, inter-corporate investments, revenue and expense recognition and ratio analysis. Course may not be used to fulfill requirements in the Accounting major.

**Prerequisite:** ACCT 23021 or ACTT 11001; and minimum 2.500 overall GPA; not open to students declared in Accounting major.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ACCT 33063 COST CONTROL AND ANALYSIS FOR MANAGEMENT 3 Credit Hours**

An in-depth study of cost accounting, focusing on the use of cost accounting information in planning, control and decision-making. Topics include cost terminology, costing systems, cost-volume-profit analysis, budgeting, cost allocation, activity-based costing, variance analysis, ethics and performance measurement. Course may not be used to fulfill requirements in the Accounting major.

**Prerequisite:** ACCT 23021 or ACTT 11001; and minimum 2.500 overall GPA; not open to students declared in Accounting major.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ACCT 43009 ACCOUNTING DATA ANALYTICS 3 Credit Hours**

(Slashed with ACCT 53009) Students apply data analytical concepts, tools and techniques in an accounting context. Course explores how to acquire, cleanse and analyze accounting and other data in accounting-related settings. Students complete cases in financial accounting, managerial accounting, auditing and tax. Critical thinking and application of both general and accounting-specific data analytics software are emphasized.

**Prerequisite:** Minimum C grade in ACCT 33010 and ACCT 33012; and minimum 2.500 overall GPA; and Accounting major.

**Corequisite:** ACCT 43010.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ACCT 43010 PRINCIPLES OF AUDITING (ELR) (WIC) 3 Credit Hours**

Integration of conceptual and practical aspects of auditing, importance of strong internal controls is stressed. Ethical decision making, written and verbal communication and interpersonal skills are emphasized.

**Prerequisite:** Minimum C grade in ACCT 33010 and ACCT 33012; and minimum 2.500 overall GPA; and Accounting major.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Experiential Learning Requirement, Writing Intensive Course

**ACCT 43013 ADVANCED MANAGEMENT ACCOUNTING 3 Credit Hours**

(Slashed with ACCT 53013) Advanced contemporary topics relating to the use of accounting information in managerial decision-making. Topical coverage varies from budgeting, cost behavior, corporate governance, executive compensation, tax strategies to sticky costs. Accounting research, verbal and written communication, ethical decision-making and analytical skills are emphasized.

**Prerequisite:** Minimum C grade in ACCT 33010; and minimum 2.500 overall GPA and Accounting major.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ACCT 43020 ADVANCED FINANCIAL ACCOUNTING 3 Credit Hours**

(Slashed with ACCT 53020) Conceptual and practical issues surrounding: (1) financial reporting for investment activities of businesses when one firm possesses significant influence or control over another; (2) accounting for international business transactions, including the use of derivatives for hedging foreign exchange risk; and (3) translating foreign currency financial statements of foreign operations. Professional accounting research and written communication skills are emphasized.

**Prerequisite:** Minimum C grade in ACCT 33001 and ACCT 33004 and ACCT 33010 and ACCT 33012; and minimum 2.500 overall GPA; and Accounting major.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ACCT 43031 INCOME TAXATION I - INDIVIDUAL TAXATION 3 Credit Hours**

Introduction to Federal income tax for individual taxpayers. Detailed analysis recognition rules for individuals. Overview of tax rules related to entity choice for business owners.

**Prerequisite:** Minimum C grade in ACCT 33001 and ACCT 33004; and minimum 2.500 overall GPA; and Accounting major.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ACCT 43033 INCOME TAXATION II - ENTITY TAXATION 3 Credit Hours**

(Slashed with ACCT 53033) Federal taxation of business entities, including income taxation of C corporations, partnerships, S corporations and trusts and estates; estate and gift taxation; tax administration and practice. Professional accounting research and written communication skills are emphasized.

**Prerequisite:** ACCT 43031; and minimum 2.500 overall GPA; and Accounting major.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ACCT 43034 NONPROFIT ACCOUNTING AND AUDITING 3 Credit Hours**

(Slashed with ACCT 53034) Accounting, financial reporting and auditing issues and techniques that are unique to government and nonprofit entities. Professional accounting research, written communication and ethical decision-making skills are emphasized.

**Prerequisite:** Minimum C grade in ACCT 33001 and ACCT 33004 and ACCT 33010 and ACCT 33012; and minimum 2.500 overall GPA; and Accounting major.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ACCT 43043 INTERNAL AUDIT AND FORENSIC ACCOUNTING 3 Credit Hours**

(Slashed with ACCT 53043) Course introduces students to the internal audit profession and the internal audit process. Topics include the definition of internal auditing, the International Professional Practices Framework (IPPF), risk, governance and control issues and conducting internal audit engagements. Provides an overview of forensic accounting, including the introduction to fraud in business, the circumstances in which it arises, techniques for preventing, detecting, measuring fraud and the skills necessary to respond and resolve fraud once discovered. Students apply the concepts to analyze cases in internal audit and forensic accounting. Written and oral communication skills are emphasized.

**Prerequisite:** Minimum C grade in ACCT 43010.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ACCT 43048 INTERNAL AUDIT AND FORENSIC AUDITING (KMCP) (KMCR) 3,6 Credit Hours**

TEST Prerequisite: TEST Pre/corequisites: TEST Corequisites: TEST

**Schedule Type:** Emporium, International Experience, Lecture, Studio

**Contact Hours:** 3-6 lecture

**Grade Mode:** Standard Letter

**Attributes:** Kent Core Composition, Kent Core Mathematics and Critical Reasoning

**ACCT 43087 INTERNATIONAL ACCOUNTING EXPERIENCE 3 Credit Hours**

(Slashed with ACCT 53087) Firsthand exposure to international businesses and organizations generally relating to business and specifically relating to accounting and finance. Includes pre-trip orientation sessions, visits to international businesses and organizations, and opportunities for cultural activities.

**Prerequisite:** ACCT 23020 and ACCT 23021; and Accounting major; and special approval.

**Schedule Type:** Field Experience

**Contact Hours:** 9 other

**Grade Mode:** Standard Letter

**ACCT 43092 ACCOUNTING INTERNSHIP (ELR) 3 Credit Hours**

Study of activities related to concurrent on-the-job experience with cooperating industrial and public accounting firms. Students must have a minimum 3.000 GPA in all attempts of ACCT courses to register.

**Prerequisite:** Minimum C grade in ACCT 33001 or ACCT 33004; and minimum 3.000 overall GPA; and Accounting major; and junior standing; and special approval.

**Schedule Type:** Practical Experience

**Contact Hours:** 9 other

**Grade Mode:** Satisfactory/Unsatisfactory

**Attributes:** Experiential Learning Requirement

**ACCT 43093 VARIABLE TITLE WORKSHOP IN ACCOUNTING 1-3 Credit Hours**

(Repeatable for credit) Topic to be determined when a specific course is proposed for a particular term.

**Prerequisite:** Accounting major; and senior standing; and special approval.

**Schedule Type:** Workshop

**Contact Hours:** 1-3 other

**Grade Mode:** Satisfactory/Unsatisfactory

**ACCT 43095 SPECIAL TOPICS: ACCOUNTING 3 Credit Hours**

(Repeatable for credit) (Slashed with ACCT 53095) Offered periodically with different topics and different faculty involved.

**Prerequisite:** Accounting major; and senior standing; special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ACCT 43096 INDIVIDUAL INVESTIGATION IN ACCOUNTING 1-3 Credit Hours**

(Repeatable for credit) Individual research into a current accounting topic.

**Prerequisite:** Accounting major; and senior standing; and special approval.

**Schedule Type:** Individual Investigation

**Contact Hours:** 3-9 other

**Grade Mode:** Standard Letter

**ACCT 53009 ACCOUNTING DATA ANALYTICS 3 Credit Hours**

(Slashed with ACCT 43009) Students apply data analytical concepts, tools and techniques in an accounting context. Course explores how to acquire, cleanse and analyze accounting and other data in accounting-related settings. Students complete cases in financial accounting, managerial accounting, auditing and tax. Critical thinking and application of both general and accounting-specific data analytics software are emphasized.

**Prerequisite:** Minimum C grade in ACCT 33010 and ACCT 33012; and minimum 2.500 overall GPA; and Accounting major; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ACCT 53013 ADVANCED MANAGEMENT ACCOUNTING 3 Credit Hours**

(Slashed with ACCT 43013) Advanced contemporary topics relating to the use of accounting information in managerial decision-making. Topical coverage varies from budgeting, cost behavior, corporate governance, executive compensation, tax strategies to sticky costs. Accounting research, verbal and written communication, ethical decision-making and analytical skills are emphasized.

**Prerequisite:** ACCT 33010; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ACCT 53014 ADVANCED ACCOUNTING SYSTEMS 3 Credit Hours**

Analysis, design and implementation of accounting information systems with a focus on creating effective business processes and internal controls. Students work with enterprise resource planning, ERP, software to deepen their understanding of key concepts. Introduction to retrieving and analyzing data via Structured Query Language (SQL). Enhanced statistical analysis, interpersonal skills and written communications skills are emphasized.

**Prerequisite:** ACCT 33004; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ACCT 53020 ADVANCED FINANCIAL ACCOUNTING 3 Credit Hours**

(Slashed with ACCT 43020) Conceptual and practical issues surrounding: (1) financial reporting for investment activities of businesses when one firm possesses significant influence or control over another; (2) accounting for international business transactions, including the use of derivatives for hedging foreign exchange risk; and (3) translating foreign currency financial statements of foreign operations. Professional accounting research and written communication skills are emphasized.

**Prerequisite:** Minimum C grade in ACCT 33012 and ACCT 43031; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ACCT 53033 INCOME TAXATION II - ENTITY TAXATION 3 Credit Hours**

(Slashed with ACCT 43033) Federal taxation of business entities including income taxation of C corporations, partnerships, S corporations and trusts and estates; estate and gift taxation; tax administration and practice. Professional accounting research and written communication skills are emphasized.

**Prerequisite:** ACCT 43031; and minimum 2.500 overall GPA; and Accounting major; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ACCT 53034 NONPROFIT ACCOUNTING AUDITING 3 Credit Hours**

(Slashed with ACCT 43034) Accounting, financial reporting and auditing issues and techniques that are unique to government and nonprofit entities. Professional accounting research, written communication and ethical decision-making skills are emphasized.

**Prerequisite:** ACCT 33012; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ACCT 53043 INTERNAL AUDIT AND FORENSIC ACCOUNTING 3 Credit Hours**

(Slashed with ACCT 43043) Course introduces students to the internal audit profession and the internal audit process. Topics include the definition of internal auditing, the International Professional Practices Framework (IPPF), risk, governance and control issues and conducting internal audit engagements. Provides an overview of forensic accounting, including the introduction to fraud in business, the circumstances in which it arises, techniques for preventing, detecting, measuring fraud and the skills necessary to respond and resolve fraud once discovered. Students apply the concepts to analyze cases in internal audit and forensic accounting. Written and oral communication skills are emphasized.

**Prerequisite:** Minimum C grade in ACCT 43010; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ACCT 53087 INTERNATIONAL ACCOUNTING EXPERIENCE 3 Credit Hours**

(Slashed with ACCT 43087) Firsthand exposure to international businesses and organizations generally relating to business and specifically relating to accounting and finance. Includes pre-trip orientation sessions, visits to international businesses and organizations, and opportunities for cultural activities.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Field Experience

**Contact Hours:** 9 other

**Grade Mode:** Standard Letter

**ACCT 53095 SPECIAL TOPICS: ACCOUNTING 3 Credit Hours**

(Repeatable for credit) (Slashed with ACCT 43095) Offered periodically with different topics and different faculty involved.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ACCT 63022 PROFESSIONAL ISSUES AND ETHICS IN ACCOUNTING 3 Credit Hours**

(Slashed with ACCT 73022) Students investigate issues confronting the accounting profession today by reviewing the past, examining the present and looking into the future. Topics covered include history and characteristics of the profession, regulation of the profession, ethical challenges facing accountants and auditors, fraud and the future of the profession. Professional accounting research and verbal and written communication emphasized.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ACCT 63024 INFORMATION TECHNOLOGY AUDIT: CONTROLS AND ANALYTICS 3 Credit Hours**

(Slashed with ACCT 73024) Students apply data analytics to the audit of controls and security of accounting information systems. Includes examining the role of the IT audit function and applicable auditing standards; identifying system risks and evaluating controls in Enterprise Resource Planning (ERP) systems. Data analytics, writing and professional ethics are emphasized.

**Prerequisite:** ACCT 43010; and ACCT 53014; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ACCT 63025 ANALYSIS AND VALUATION OF BUSINESS USING FINANCIAL STATEMENTS 3 Credit Hours**

(Slashed with ACCT 73025) Develops a conceptual framework of how firms generate value and how firm value is captured in financial statements. The role of financial analysts and the regulatory framework in the financial and credit markets are discussed. Students learn how to derive firm value using valuations models and financial statements and non-financial data.

**Prerequisite:** ACCT 33001 or ACCT 63037; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ACCT 63030 INTERNATIONAL ACCOUNTING 3 Credit Hours**

(Slashed with ACCT 73030) Study of reporting in United States capital markets for domestic and foreign firms; evaluation of differences in accounting, auditing and financial reporting between nations; impact of international operations on accounting for decision making; impact of international financial reporting standards (IFRS). Interpersonal skills emphasized.

**Prerequisite:** ACCT 33012; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ACCT 63031 ADVANCED AUDITING THEORY AND PRACTICE 3 Credit Hours**

(Slashed with ACCT 73031) Advanced conceptual and practical understanding of audit methodology and role of auditors. Focus on use of professional judgment in applying auditing standards on ethical considerations and on fraud. Review of current trends and developments in the public accounting profession. Written communication and ethical decision making emphasized.

**Prerequisite:** ACCT 43010; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ACCT 63032 ACCOUNTING THEORY, HISTORY AND INSTITUTIONS 3 Credit Hours**

(Slashed with ACCT 73032) Survey of history of accounting and development of principles, followed by intensive study of theoretical problems related to determination of income and presentation of financial position. Written communication and ethical decision-making skills covered.

**Prerequisite:** ACCT 33012; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ACCT 63037 FINANCIAL ACCOUNTING FOR DECISION MAKING 2 Credit Hours**

(Slashed with ACCT 73037) In-depth study of financial accounting concepts and basic financial statements. Includes an examination of the significant accounting issues affecting financial reporting and their impact on analysis and interpretation of financial information for decision-making. Course may not be used to fulfill requirements in the Master of Science in Accounting degree.

**Prerequisite:** Graduate standing; open only to students declared in the MBA and MA degrees.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**ACCT 63038 MANAGERIAL ACCOUNTING FOR DECISION MAKING 2 Credit Hours**

(Slashed with ACCT 73038) An in-depth study of cost accounting concepts and cost behavior for measuring product and service costs, pricing products and services, planning and controlling business operations and making business decisions. Course may not be used to fulfill requirements in the Master of Science in Accounting degree.

**Prerequisite:** ACCT 63037; and graduate standing; open only to students declared in the MBA and MA degrees.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**ACCT 63042 TAXATION OF CORPORATIONS AND SHAREHOLDERS 3 Credit Hours**

An in-depth study of tax law that pertains to corporations and shareholders; corporate formation, distributions, liquidation and reorganization. Tax research primarily through the Internal Revenue Code and Treasury Regulations. Verbal and written communication skills are emphasized.

**Prerequisite:** ACCT 43031; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ACCT 63043 TAXATION OF PARTNERSHIPS AND PARTNERS 3 Credit Hours**

An in-depth study of formation, operation, termination and liquidation and other special problems of partnerships and S corporations. Tax research primarily through the Internal Revenue Code and Treasury Regulations. Verbal and written communication skills are emphasized.

**Prerequisite:** ACCT 53033; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ACCT 63045 TAX RESEARCH AND PLANNING 3 Credit Hours**

Introduction to tax research methodology and tax preparer standards, with an emphasis on effectively communicating tax outcomes via written communications.

**Prerequisite:** ACCT 53033; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ACCT 63092 INTERNSHIP 3 Credit Hours**

(Repeatable for credit) Supervised practical experience with public accounting firm, corporation, governmental or not-for-profit organization. Periodic reports required. Students must have a 3.000 GPA in all attempted ACCT courses to register.

**Prerequisite:** Minimum C grade in ACCT 33010 and ACCT 33012; and minimum 3.000 overall GPA; and Accounting major; and graduate standing; and special approval.

**Schedule Type:** Practical Experience

**Contact Hours:** 9 other

**Grade Mode:** Satisfactory/Unsatisfactory

**ACCT 63093 VARIABLE TITLE WORKSHOP IN ACCOUNTING 1-3 Credit Hours**

(Repeatable for credit) Topic to be determined when a specific course is proposed for a particular term.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Workshop

**Contact Hours:** 1-3 other

**Grade Mode:** Satisfactory/Unsatisfactory



**ACCT 63098 RESEARCH IN ACCOUNTING 1-3 Credit Hours**  
(Repeatable for credit) (Slashed with ACCT 73098) Review of sources, techniques and methodology. Individually selected topic is investigated and reported in formal paper.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Research

**Contact Hours:** 1-3 other

**Grade Mode:** Standard Letter

**ACCT 73022 PROFESSIONAL ISSUES AND ETHICS IN ACCOUNTING 3 Credit Hours**

(Slashed with ACCT 63022) Students investigate issues confronting the accounting profession today by reviewing the past, examining the present and looking into the future. Topics covered include history and characteristics of the profession, regulation of the profession, ethical challenges facing accountants and auditors, fraud and the future of the profession. Professional accounting research and verbal and written communication emphasized.

**Prerequisite:** Doctoral standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ACCT 73024 INFORMATION TECHNOLOGY AUDIT: CONTROLS AND ANALYTICS 3 Credit Hours**

(Slashed with ACCT 63024) Students apply data analytics to the audit of controls and security of accounting information systems. Includes examining the role of the IT audit function and applicable auditing standards; identifying system risks and evaluating controls in Enterprise Resource Planning (ERP) systems. Data analytics, writing and professional ethics are emphasized.

**Prerequisite:** ACCT 43010; and ACCT 53012; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ACCT 73025 ANALYSIS AND VALUATION OF BUSINESS USING FINANCIAL STATEMENTS 3 Credit Hours**

(Slashed with ACCT 63025) Develops a conceptual framework of how firms generate value and how firm value is captured in financial statements. The role of financial analysts and the regulatory framework in the financial and credit markets are discussed. Students learn how to derive firm value using valuations models and financial statements and non-financial data.

**Prerequisite:** ACCT 33001 or ACCT 63037; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ACCT 73030 INTERNATIONAL ACCOUNTING 3 Credit Hours**

(Slashed with ACCT 63030) Study of reporting in United States capital markets for domestic and foreign firms; evaluation of differences in accounting, auditing and financial reporting between nations; impact of international operations on accounting for decision making; impact of international financial reporting standards (IFRS). Interpersonal skills emphasized.

**Prerequisite:** ACCT 33012; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ACCT 73031 ADVANCED AUDITING THEORY AND PRACTICE 3 Credit Hours**

(Slashed with ACCT 63031) Advanced conceptual and practical understanding of audit methodology and role of auditors. Focus on use of professional judgment in applying auditing standards, on ethical considerations, and on fraud. Review of current trends and developments in the public accounting profession. Written communication and ethical decision making emphasized.

**Prerequisite:** ACCT 43010; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ACCT 73032 ACCOUNTING THEORY, HISTORY AND INSTITUTIONS 3 Credit Hours**

(Slashed with ACCT 63032) Survey of history of accounting and development of principles, followed by intensive study of theoretical problems related to determination of income and presentation of financial position. Written communication and ethical decision-making skills covered.

**Prerequisite:** ACCT 33012; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ACCT 73037 FINANCIAL ACCOUNTING FOR MANAGERIAL ACTION 3 Credit Hours**

(Slashed with ACCT 63037) In-depth study of financial accounting concepts and basic financial statements. Includes an examination of the significant accounting issues affecting financial reporting and their impact on analysis and interpretation of financial information for decision-making.

**Prerequisite:** Doctoral standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ACCT 73038 ACCOUNTING FOR MANAGERIAL ACTION AND EVALUATION 3 Credit Hours**

(Cross-listed with ACCT 63038) Review of cost accounting concepts and cost behavior. In depth study of analyzing costs for pricing and product mix decisions activity based cost systems budgeting planning and control issues methods of remaining competitive in a global environment compensation issues.

**Prerequisite:** Doctoral standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ACCT 73093 VARIABLE TITLE WORKSHOP IN ACCOUNTING 1-3 Credit Hours**

(Repeatable for credit) Topic be determined when a specific course is proposed for a particular term.

**Prerequisite:** Doctoral standing; and special approval.

**Schedule Type:** Workshop

**Contact Hours:** 1-3 other

**Grade Mode:** Satisfactory/Unsatisfactory

**ACCT 73098 RESEARCH IN ACCOUNTING 1-3 Credit Hours**

(Repeatable for credit) (Slashed with ACCT 63098) Review of sources, techniques and methodology. Individually selected topic is investigated and reported in formal paper.

**Prerequisite:** Accounting major; and doctoral standing.

**Schedule Type:** Research

**Contact Hours:** 1-3 other

**Grade Mode:** Standard Letter-IP

**ACCT 83031 AUDITING ISSUES 3 Credit Hours**

Course provides doctoral students with an opportunity to broaden their understanding of financial and operational auditing theory and research.

**Prerequisite:** ACCT 43010; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ACCT 83033 MANAGERIAL ACCOUNTING ISSUES 3 Credit Hours**

Course provides an opportunity to survey major research topics in managerial accounting. Students develop a sound conceptual basis for reading, interpreting, analyzing, criticizing and conducting scholarly research on managerial accounting issues. Reading list includes research papers from various managerial accounting research areas and research methods.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ACCT 83037 FINANCIAL ACCOUNTING ISSUES 3 Credit Hours**

Course focuses on theoretical, analytical and empirical research in financial accounting and reporting. Emerging issues in financial accounting and reporting are examined.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ACCT 83038 BASIC ACCOUNTING RESEARCH METHODOLOGY 3 Credit Hours**

Course introduces students to basic concepts in accounting research and to the application of research methods in various accounting areas (e.g., financial, managerial, auditing and information systems).

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ACCT 83091 SEMINAR-SELECTED ACCOUNTING TOPICS 3 Credit Hours**

(Repeatable for credit) Topics vary with each offering.

**Prerequisite:** Doctoral standing; and special approval.

**Schedule Type:** Seminar

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**ACCT 83098 RESEARCH IN ACCOUNTING 3 Credit Hours**

Students develop and present a paper on an original accounting research topic under the supervision of faculty members. May extend beyond the semester.

**Prerequisite:** Doctoral standing; and special approval.

**Schedule Type:** Research

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

## Accounting - B.B.A.

**College of Business Administration**

Department of Accounting

550 Business Administration Building

Kent Campus

330-672-2545

accounting@kent.edu

www.kent.edu/business/accounting

### Description

The Bachelor of Business Administration degree in Accounting is designed to provide students with a solid foundation in accounting theory and practice necessary for entry-level accounting positions and career advancement. It encompasses a common body of concepts, conventions, principles and theories essential to the professional competency of the certified public accountant, controller, industrial accountant, institutional accountant and governmental accountant.

Accounting students may apply early to the M.B.A. degree and double count 9 credit hours of graduate courses toward both degree programs. See the Combined Bachelor's/Master's Degree Program policy in the University Catalog for more information.

In addition, students may apply toward a five-year program that leads to both the B.B.A. degree in Accounting and the Master of Science in Accounting degree. The two-degree, five-year program meets the requirements for admission of graduates to the Uniform CPA Examination. Requirements differ in different states, and students should check with the state board of accountancy for requirements.

### Fully Offered At:

- Kent Campus

### Accreditation

AACSB, International - The Association to Advance Collegiate Schools of Business

### Admission Requirements

The university affirmatively strives to provide educational opportunities and access to students with varied backgrounds, those with special talents and adult students who graduated from high school three or more years ago.

**Freshman Students on the Kent Campus:** The freshman admission policy on the Kent Campus is selective. Admission decisions are based upon the following: cumulative grade point average, ACT and/or SAT scores, strength of high school college preparatory curriculum and grade trends. The Admissions Office at the Kent Campus may defer the admission of students who do not meet admissions criteria but who demonstrate areas of promise for successful college study. Deferred applicants may begin their college coursework at one of seven regional campuses of Kent State University. For more information on admissions, including additional requirements for some academic programs, visit the admissions website for new freshmen.

**Freshman Students on the Regional Campuses:** Kent State campuses at Ashtabula, East Liverpool, Geauga, Salem, Stark, Trumbull and

Tuscarawas, as well as the Regional Academic Center in Twinsburg, have open enrollment admission for students who hold a high school diploma, GED or equivalent.

#### English Language Proficiency Requirements for International Students:

All international students must provide proof of English language proficiency (unless they meet specific exceptions) by earning a minimum 525 TOEFL score (71 on the Internet-based version), minimum 75 MELAB score, minimum 6.0 IELTS score or minimum 48 PTE score, or by completing the ESL level 112 Intensive Program. For more information on international admission, visit the Office of Global Education's admission website.

**Transfer, Transitioning and Former Students:** For more information about admission criteria for transfer, transitioning and former students, please visit the admissions website.

**Transfer Students:** A minimum 2.50 overall GPA is required for admission into the major. Students who have completed (or the equivalent of) COMM 15000, ENG 21011, MATH 11010 (or placement out of ENG 11011 and/or MATH 11010) must have earned a minimum C grade; students who have completed ACCT 23020 and ACCT 23021 must have earned a minimum B- grade in both courses. If a student does not have at least a B- in both ACCT 23020 and ACCT 23021 but the student does have an average GPA of at least a 2.7 in ACCT 23020 and ACCT 23021, the student can apply to the Department of Accounting to be considered for an override to be admitted to junior-level accounting courses.

## Program Learning Outcomes

Graduates of this program will be able to:

1. Given a defined financial accounting transaction, identify and analyze the issue, record the transaction in the books of original entry, and prepare the financial statement disclosure.
2. Demonstrate an understanding of managerial and cost accounting with the ability to identify and analyze information useful in decision making.
3. Gain a functional understanding of taxation of individuals.
4. Understand financial statement auditing.
5. Assemble, cleanse and analyze the information provided by information systems, and prepare summary reports useful for business decision-making.

Graduates of all Bachelor of Business Administration programs will be able to:

1. Recall strategic frameworks that are used to make business decisions.
2. Perform basic calculations using quantitative tools that are used to support business decisions.
3. Articulate and deliberate their ideas in writing.
4. Articulate and deliberate their ideas orally.
5. Identify ethical dilemmas and stakeholders.
6. Recommend alternatives and consequences and choose a reasoned conclusion from the alternatives given.
7. Identify global factors in making a business decision.
8. Analyze global factors in making a business decision.

## University Requirements

All students in a bachelor's degree program at Kent State University must complete the following university requirements for graduation.

**NOTE:** University requirements may be fulfilled in this program by specific course requirements. Please see Program Requirements for details.

Destination Kent State: First Year Experience	1
Course is not required for students with 25 transfer credits, excluding College Credit Plus, or age 21+ at time of admission.	
Diversity Domestic/Global (DIVD/DIVG)	2 courses
Students must successfully complete one domestic and one global course, of which one must be from the Kent Core.	
Experiential Learning Requirement (ELR)	varies
Students must successfully complete one course or approved experience.	
Kent Core (see table below)	36-37
Writing-Intensive Course (WIC)	1 course
Students must earn a minimum C grade in the course.	
Upper-Division Requirement	39 (or 42)
Students must successfully complete 39 upper-division (numbered 30000 to 49999) credit hours to graduate. Students in a B.A. and/or B.S. degree in the College of Arts and Sciences must complete 42 upper-division credit hours.	
Total Credit Hour Requirement	120
Some bachelor's degrees require students to complete more than 120 credit hours.	

## Kent Core Requirements

Kent Core Composition (KCMP)	6
Kent Core Mathematics and Critical Reasoning (KMCR)	3
Kent Core Humanities and Fine Arts (KHUM/KFA) (min one course each)	9
Kent Core Social Sciences (KSS) (must be from two disciplines)	6
Kent Core Basic Sciences (KBS/KLAB) (must include one laboratory)	6-7
Kent Core Additional (KADL)	6
<b>Total Credit Hours:</b>	<b>36-37</b>

## Program Requirements

### Major Requirements

Code	Title	Credit Hours
<b>Major Requirements (courses count in major GPA)</b>		
ACCT 33001	INTERMEDIATE FINANCIAL ACCOUNTING I (min C grade)	3
ACCT 33004	INTRODUCTION TO ACCOUNTING SYSTEMS (min C grade)	3
ACCT 33010	COST ACCOUNTING (min C grade)	3
ACCT 33012	INTERMEDIATE FINANCIAL ACCOUNTING II (min C grade)	3
ACCT 43009	ACCOUNTING DATA ANALYTICS	3
ACCT 43010	PRINCIPLES OF AUDITING (ELR) (WIC) <sup>1</sup>	3
ACCT 43031	INCOME TAXATION I - INDIVIDUAL TAXATION	3
Accounting Electives, choose from the following:		6
ACCT 43013	ADVANCED MANAGEMENT ACCOUNTING	
ACCT 43020	ADVANCED FINANCIAL ACCOUNTING	

ACCT 43033	INCOME TAXATION II - ENTITY TAXATION	
ACCT 43034	NONPROFIT ACCOUNTING AND AUDITING	
ACCT 43043	INTERNAL AUDIT AND FORENSIC ACCOUNTING	
ACCT 43087	INTERNATIONAL ACCOUNTING EXPERIENCE	
ACCT 43092	ACCOUNTING INTERNSHIP (ELR)	
ACCT 43095	SPECIAL TOPICS: ACCOUNTING	
ACCT 43096	INDIVIDUAL INVESTIGATION IN ACCOUNTING	
<b>Additional Requirements (courses do not count in major GPA)</b>		
ACCT 23020	INTRODUCTION TO FINANCIAL ACCOUNTING (min B- grade) <sup>2</sup>	3
ACCT 23021	INTRODUCTION TO MANAGERIAL ACCOUNTING (min B- grade) <sup>2</sup>	3
BUS 10123	EXPLORING BUSINESS <sup>3</sup>	3
BUS 30062	ADVANCED PROFESSIONAL DEVELOPMENT	3
CIS 24053	INTRODUCTION TO COMPUTER APPLICATIONS	3
COMM 15000	INTRODUCTION TO HUMAN COMMUNICATION (KADL) (min C grade)	3
ECON 22060	PRINCIPLES OF MICROECONOMICS (KSS)	3
ECON 22061	PRINCIPLES OF MACROECONOMICS (KSS)	3
FIN 26074	LEGAL ENVIRONMENT OF BUSINESS	3
FIN 36053	BUSINESS FINANCE	3
FIN 36072	LAW OF COMMERCIAL TRANSACTIONS	3
MATH 11010	ALGEBRA FOR CALCULUS (KMCR) (min C grade)	3
MATH 11012	INTUITIVE CALCULUS (KMCR)	3-5
or MATH 12002	ANALYTIC GEOMETRY AND CALCULUS I (KMCR)	
MGMT 24056	BUSINESS ANALYTICS I	3
MGMT 24163	PRINCIPLES OF MANAGEMENT	3
MGMT 34060	OPERATIONS MANAGEMENT	3
MGMT 44285	INTEGRATED BUSINESS POLICY AND STRATEGY	3
MKTG 25010	PRINCIPLES OF MARKETING	3
UC 10097	DESTINATION KENT STATE: FIRST YEAR EXPERIENCE	1
UC 10162	INTRODUCTION TO PROFESSIONAL DEVELOPMENT	1
Kent Core Composition (min C grade) <sup>5</sup>		6
Kent Core Humanities and Fine Arts (minimum one course from each)		9
Kent Core Social Sciences		3
Kent Core Basic Sciences (must include one laboratory)		6-7
General Electives (total credit hours depends on earning 120 credit hours including 39 upper-division credit hours) <sup>6</sup>		13
Minimum Total Credit Hours:		120

<sup>1</sup> A minimum C grade must be earned to fulfill the writing-intensive requirement.

<sup>2</sup> If a student does not have at least a B- in both ACCT 23020 (ACCT 11000 or equivalent) and ACCT 23021 (or ACTT 11001 or equivalent) but the student does have an average GPA of at least 2.700 in ACCT 23020 (or ACTT 11000 or equivalent) and ACCT 23021 (ACTT 11001 or equivalent), the student can apply to the Accounting Department for an override to be admitted to junior level accounting courses.

<sup>3</sup> A student changing to the College of Business Administration or transferring may be waived out of BUS 10123 if:

- 30 or more credit hours have been earned and any two classes (from ACCT 23020, ACCT 23021, FIN 26074, MGMT 24163, MKTG 25010 or CIS 24053) have successfully been completed.
- 60 or more credit hours have been earned and the student has successfully completed one course from (ACCT 23020, ACCT 23021, FIN 26074, MGMT 24163, MKTG 25010 or CIS 24053)
- At the discretion of the Dean's Office, the student has sufficient breadth and depth of knowledge in a business field (as demonstrated by a CLEP exam or Credit by Exam) but does not meet the requirements listed above.

<sup>4</sup> Students who have taken MATH 10041 for another program may use it as a substitute for MGMT 24056.

<sup>5</sup> Minimum C grade in ENG 21011 or HONR 20197.

<sup>6</sup> Credits required depends on meeting minimum 120 credit hours and minimum 39 upper-division credit hours. Students may take or use any course at any level as long as the minimum 39-credit hours requirement for upper-division courses is satisfied for graduation with a B.B.A. Exception: Maximum 4 credit hours of Physical Activity, Wellness and Sport (PWS) courses may be counted toward the 120 total credit hours or 39 upper-division-credit hours graduation requirement. A minor (business or non-business) is encouraged. Any other exceptions must be approved by the assistant dean.

## Progression Requirements

- Minimum 2.500 overall GPA
- Minimum C grade in COMM 15000, ENG 21011 and MATH 11010 (or placement out of MATH 11010)
- Completion of CIS 24053; and MATH 11012 or MATH 12002 (or equivalent)
- Minimum B- grade in ACCT 23020 and ACCT 23021

If a student does not have a minimum B- in both ACCT 23020 and ACCT 23021, but has a minimum 2.700 average GPA in ACCT 23020 and ACCT 23021, the student can apply to the Department of Accounting to be considered for an override to admitted to junior-level accounting courses.

## Graduation Requirements

Minimum Major GPA	Minimum Overall GPA
2.500	2.500

- All accounting major courses (33000 level and above) taken to fulfill the requirements for a BBA in Accounting must be taken within the last 10 years at the time of graduation.
- A basic knowledge of and the ability to use personal computers for accounting applications, including an electronic spreadsheet such as Excel, is required to major in accounting. Students should possess such knowledge and skills, if not already possessed, before taking any upper-division accounting major course or during the first semester of the term during which the course is taken. The department office can provide recommendations on self-study materials to acquire the knowledge and skills.
- Students must complete at least 50 percent of business credit hours (required for the business degree) in-residence on a Kent State University campus.
- Students must complete two measures of outcomes assessment as specified by the College of Business Administration for complete satisfaction of the B.B.A.





## Roadmap

This roadmap is a recommended semester-by-semester plan of study for this major. However, courses designated as critical (!) must be completed in the semester listed to ensure a timely graduation.

Semester One		Credits
BUS 10123	EXPLORING BUSINESS	3
COMM 15000	INTRODUCTION TO HUMAN COMMUNICATION (KADL)	3
MATH 11010	ALGEBRA FOR CALCULUS (KMCR)	3
UC 10097	DESTINATION KENT STATE: FIRST YEAR EXPERIENCE	1
Kent Core Requirement		3
Kent Core Requirement		3
Credit Hours		16
Semester Two		Credits
CIS 24053	INTRODUCTION TO COMPUTER APPLICATIONS	3
ECON 22060	PRINCIPLES OF MICROECONOMICS (KSS)	3
MATH 11012	INTUITIVE CALCULUS (KMCR)	3-5
or	or ANALYTIC GEOMETRY AND CALCULUS I (KMCR)	
MATH 12002		
UC 10162	INTRODUCTION TO PROFESSIONAL DEVELOPMENT	1
Kent Core Requirement		3
Kent Core Requirement		3
Credit Hours		16
Semester Three		Credits
ACCT 23020	INTRODUCTION TO FINANCIAL ACCOUNTING	3
ECON 22061	PRINCIPLES OF MACROECONOMICS (KSS)	3
MKTG 25010	PRINCIPLES OF MARKETING	3
MGMT 24163	PRINCIPLES OF MANAGEMENT	3
Kent Core Requirement		3
Credit Hours		15
Semester Four		Credits
! ACCT 23021	INTRODUCTION TO MANAGERIAL ACCOUNTING	3
BUS 30062	ADVANCED PROFESSIONAL DEVELOPMENT	3
FIN 26074	LEGAL ENVIRONMENT OF BUSINESS	3
MGMT 24056	BUSINESS ANALYTICS I	3
Kent Core Requirement		3
Credit Hours		15
Semester Five		Credits
Required for progression in the major: Minimum 2.500 overall GPA, minimum C grade in COMM 15000 and ENG 21011 and MATH 11010; MATH 11012 or MATH 12002; and minimum B-grade in ACCT 23020 and ACCT 23021.		
! ACCT 33001	INTERMEDIATE FINANCIAL ACCOUNTING I	3
! ACCT 33004	INTRODUCTION TO ACCOUNTING SYSTEMS	3
FIN 36053	BUSINESS FINANCE	3
Kent Core Requirement		3
General Elective		3
Credit Hours		15
Semester Six		Credits
Required: minimum overall 2.500 GPA		
! ACCT 33010	COST ACCOUNTING	3
! ACCT 33012	INTERMEDIATE FINANCIAL ACCOUNTING II	3
FIN 36072	LAW OF COMMERCIAL TRANSACTIONS	3
General Electives		6
Credit Hours		15

### Semester Seven

Required: minimum overall 2.500 GPA

ACCT 43009	ACCOUNTING DATA ANALYTICS	3
ACCT 43010	PRINCIPLES OF AUDITING (ELR) (WIC)	3
! ACCT 43031	INCOME TAXATION I - INDIVIDUAL TAXATION	3
MGMT 34060	OPERATIONS MANAGEMENT	3
Kent Core Requirement		3

Credit Hours 15

### Semester Eight

Required: minimum overall 2.500 GPA. Note: completion of The Assurance of Learning Assessment given in MGMT 44285

MGMT 44285	INTEGRATED BUSINESS POLICY AND STRATEGY	3
Accounting elective		6
General Electives		4

Credit Hours 13

Minimum Total Credit Hours: 120

## Accounting - M.S.A.

### College of Business Administration

Department of Accounting  
550 Business Administration Building  
Kent Campus  
330-672-2545  
accounting@kent.edu  
www.kent.edu/business/accounting

## Description

The Master of Science in Accounting degree is for students interested in specializing in accounting. The combination of coursework in accounting and various business disciplines, provides students with a strong theoretical foundation in accounting, as well as an understanding of the practical applications of the discipline. The program also emphasizes the development of communication, interpersonal and analytical problem-solving skills through the use of case studies, team and individual projects and accounting and auditing computer applications. Upon completion and 150 credit hours, students should be considered as having met the educational requirement for sitting for the CPA exam in Ohio<sup>1</sup>. Students will also meet the education requirements to sit for various other accounting certifications.

<sup>1</sup> Please refer to the most recent academic requirements for admission to the CPA exam issued by the Accountancy Board of Ohio.

### Fully Offered At:

- Online
- Kent Campus

## Accreditation

AACSB International - The Association to Advance Collegiate Schools of Business

## Admission Requirements

- Bachelor's degree from an accredited college or university for unconditional admission
- Minimum 3.000 undergraduate GPA on a 4.000 point scale for unconditional admission
- Minimum 3.000 accounting GPA, if applicable
- Official transcript(s)
- Minimum 500 overall GMAT, minimum 40th percentile in verbal and quantitative sections<sup>1</sup>
- GRE scores can be submitted in lieu of GMAT scores and a conversion tool provided by ETS will be used to predict GMAT scores based on an applicant's GRE Verbal Reasoning and Quantitative Reasoning scores: GMAT verbal score or predicted score if GRE is submitted: 40<sup>th</sup> percentile and GMAT quantitative score or predicted score if GRE is submitted: 40 percentile
- Résumé
- Goal statement
- Two letters of recommendation
- English language proficiency - all international students must provide proof of English language proficiency (unless they meet specific exceptions) by earning one of the following:
  - Minimum 550 TOEFL PBT score (paper-based version)
  - Minimum 79 TOEFL IBT score (internet-based version)
  - Minimum 77 MELAB score
  - Minimum 6.5 IELTS score
  - Minimum 58 PTE score
  - Minimum 110 Duolingo English Test score

For more information about graduate admissions, please visit the Graduate Studies admission website. For more information on international admission, visit the Office of Global Education's admission website.

## Program Learning Outcomes

Graduates of this program will be able to:

1. Analyze, evaluate, and report on complex accounting and economic transactions using the accounting framework
2. Apply research and analytical skills to solve accounting problems.
3. Given an ethical dilemma in an accounting setting, analyze the issue, apply an ethical framework, and develop a resolution.
4. Effectively communicate using oral and written communication skills in a business setting.
5. Assemble, cleanse and analyze the information provided by information systems, and prepare summary reports useful for business decision-making.

## Program Requirements

### Major Requirements

Code	Title	Credit Hours
<b>Major Requirements</b>		
ACCT 53009	ACCOUNTING DATA ANALYTICS <sup>1</sup>	3
ACCT 53020	ADVANCED FINANCIAL ACCOUNTING <sup>1</sup>	3

ACCT 53033	INCOME TAXATION II - ENTITY TAXATION <sup>1</sup>	3
ACCT 63022	PROFESSIONAL ISSUES AND ETHICS IN ACCOUNTING	3
Accounting Elective, choose from the following: <sup>2</sup>		9
ACCT 53013	ADVANCED MANAGEMENT ACCOUNTING	
ACCT 53095	SPECIAL TOPICS: ACCOUNTING	
ACCT 63024	INFORMATION TECHNOLOGY AUDIT: CONTROLS AND ANALYTICS	
ACCT 63025	ANALYSIS AND VALUATION OF BUSINESS USING FINANCIAL STATEMENTS	
ACCT 63031	ADVANCED AUDITING THEORY AND PRACTICE	
ACCT 63042	TAXATION OF CORPORATIONS AND SHAREHOLDERS	
ACCT 63043	TAXATION OF PARTNERSHIPS AND PARTNERS	
ACCT 63045	TAX RESEARCH AND PLANNING	
Non-Accounting Business Electives, choose from the following: <sup>3</sup>		9
ECON 62054	ECONOMETRICS I	
FIN 66061	FINANCIAL MANAGEMENT I	
MIS 64018	QUANTITATIVE MANAGEMENT MODELING	
MIS 64036	BUSINESS ANALYTICS	
MIS 64037	ADVANCED DATA MINING AND PREDICTIVE ANALYTICS	
MIS 64038	ANALYTICS IN PRACTICE	
MIS 64082	DATABASE MANAGEMENT AND DATABASE ANALYTICS	
MIS 64185	BUSINESS STRATEGY	

Minimum Total Credit Hours: 30

<sup>1</sup> If an M.S.A. student successfully completed ACCT 43009, ACCT 43020 and ACCT 43033 as a Kent State accounting undergraduate (or completed comparable classes in another accounting undergraduate program), they will not be required to complete the required comparable graduate courses (ACCT 53009, ACCT 53020 and ACCT 53033) for the M.S.A. degree. Rather, the student will substitute an additional accounting elective for each waived course.

<sup>2</sup> Students are encouraged to structure a concentration tailored to their needs.

<sup>3</sup> During the admission evaluation, the M.S.A. program coordinator may require students to take other non-accounting graduate business courses depending on the undergraduate courses the student has previously taken.

## Graduation Requirements

Additional coursework may be required for the M.S.A. degree if the student does not have an undergraduate degree in accounting.

## Accounting - Minor

### College of Business Administration

Department of Accounting  
 550 Business Administration Building  
 Kent Campus  
 330-672-2545  
 accounting@kent.edu  
 www.kent.edu/business/accounting

## Description

The Accounting minor is for students desiring accounting education in financial statement preparation, budgeting, costing and accounting systems at a level beyond the user of financial information but less than the preparation for being a professional accountant. The minor is especially useful to students whose career paths are in business, not-for-profit and governmental organizations where dealing with financial issues will be an important part of their duties.

### Fully Offered At:

- Kent Campus

## Admission Requirements

Admission to a minor is open to students declared in a bachelor's degree, the A.A.B. or A.A.S. degree or the A.T.S. degree (not Individualized Program major). Students declared only in the A.A. or A.S. degree or the A.T.S. degree in Individualized Program may not declare a minor. Students may not pursue a minor and a major in the same discipline.

To declare the Accounting minor, students must have a minimum 2.500 overall Kent State University GPA. No Kent State University GPA is required if the student is a first-semester freshman or transfer student admitted in good standing.

## Minor Requirements

Code	Title	Credit Hours
<b>Minor Requirements</b>		
ACCT 23020	INTRODUCTION TO FINANCIAL ACCOUNTING (min B- grade)	3
ACCT 23021	INTRODUCTION TO MANAGERIAL ACCOUNTING (min B- grade)	3
ACCT 33001	INTERMEDIATE FINANCIAL ACCOUNTING I (min C grade)	3
ACCT 33004	INTRODUCTION TO ACCOUNTING SYSTEMS (min C grade)	3
ACCT 33010	COST ACCOUNTING	3
ACCT 33012	INTERMEDIATE FINANCIAL ACCOUNTING II	3
CIS 24053	INTRODUCTION TO COMPUTER APPLICATIONS	3
Minimum Total Credit Hours:		21

## Progression Requirements

- Minimum B- grade in both ACCT 23020 and ACCT 23021 (or equivalent courses)

## Graduation Requirements

Minimum Minor GPA	Minimum Overall GPA
2.500	

- Students are expected to satisfy course prerequisites for each course required in the minor. Prerequisites are not tied to a particular catalog; therefore it is important to look at the most current information about a course.
- Student may not pursue a minor and a major in the same discipline.
- In computing the minor GPA, all attempts of 30000- and 40000-level courses are included in the calculation. Only the highest grade for all

attempts in the 20000-level courses required in this minor are used for the calculation of the minor GPA.

- Minimum 6 credit hours in the minor must be upper-division coursework (30000 and 40000 level).
- Minimum 6 credit hours in the minor must be outside of the course requirements for any major or other minor the student is pursuing.
- Minimum 50 percent of the total credit hours for the minor must be taken at Kent State (in residence).

## Doctoral Accounting - Minor

### College of Business Administration

Department of Accounting  
Business Administration Building  
Kent Campus  
330-672-2545  
accounting@kent.edu  
www.kent.edu/business/accounting

## Minor Requirements

Code	Title	Credit Hours
<b>Minor Requirements</b>		
ACCT 83033	MANAGERIAL ACCOUNTING ISSUES	3
ACCT 83037	FINANCIAL ACCOUNTING ISSUES	3
Choose from the following:		6
ACCT 73030	INTERNATIONAL ACCOUNTING	
ACCT 73031	ADVANCED AUDITING THEORY AND PRACTICE	
ACCT 73032	ACCOUNTING THEORY, HISTORY AND INSTITUTIONS	
ACCT 83031	AUDITING ISSUES	
ACCT 83038	BASIC ACCOUNTING RESEARCH METHODOLOGY	
ACCT 83091	SEMINAR-SELECTED ACCOUNTING TOPICS	
Minimum Total Credit Hours:		12

## Department of Economics

### College of Business Administration

Department of Economics  
480 Business Administration Building  
Kent Campus  
330-672-2366  
economics@kent.edu  
www.kent.edu/business/economics

## Undergraduate Programs

- Economics - B.B.A.

## Minors

- Data Analytics
- Economics

## Graduate Programs

- Economics - M.A.E.

## Department of Economics Faculty

- Bagheri, Omid (2017), Assistant Professor, Ph.D., Virginia Polytechnic Institute and State University, 2017
- Barnette, Justin (2011), Assistant Professor, Ph.D., University of Minnesota, Twin Cities, 2012
- Dechenaux, Emmanuel (2004), Professor, Ph.D., Purdue University, 2004
- ElBahnasawy, Nasr G. (2007), Associate Professor, Ph.D., Colorado State University, 2008
- Ellis, Michael A. (1990), Professor, Ph.D., Texas A&M University, Main Campus, 1991
- Engelhardt, Lucas M. (2010), Associate Professor, Ph.D., The Ohio State University, 2010
- Greenhalgh-Stanley, Nadia (2009), Associate Professor, Ph.D., Syracuse University, 2009
- Harris, Jeremiah R. (2014), Assistant Professor, Ph.D., Purdue University, 2014
- Hayduk, Iryna (2014), Assistant Professor, Ph.D., University of Houston, 2014
- Johnson, Eric D. (2005), Associate Professor, Ph.D., University of California, San Diego, 1997
- Kang, Wensheng (2009), Associate Professor, Ph.D., University of Missouri, 2009
- Kocher, Brett (2019), Assistant Professor, Ph.D., Claremont Graduate School, 2019
- Leontieva, Ludmila (2007), Assistant Professor
- Liu, Dandan (2008), Associate Professor, Ph.D., Texas A&M University, Main Campus, 2005
- Mukherjee, Deepraj (2012), Associate Professor, Ph.D., University of Memphis, 2010
- Park, Jooyoun (2009), Associate Professor, Ph.D., University of Michigan, 2009
- Reynolds, Curtis (2007), Associate Professor, Ph.D., University of Michigan, 2007
- Rohlin, Shawn M. (2012), Associate Professor & Director
- Sahajdack, Thomas (2016), Assistant Professor, Ph.D., University of Illinois, 2016
- Shaeye, Abdihafit (2018), Assistant Professor, Ph.D., University of Wisconsin, Milwaukee, 2017
- Williams, Donald R. , Professor & Chair, Ph.D., Northwestern University, 1984
- Wilson, Kathryn S. (1996), Professor & Chair, Ph.D., University of Wisconsin, Madison, 1996

## Economics (ECON)

### ECON 12060 PERSONAL FINANCE 3 Credit Hours

Examines economic issues and problems of everyday life. Goal is to enable individuals to analyze their personal finances in order to learn how to get the most out of their income, increase income through a better understanding of possible investments, and protect what they have through selecting appropriate insurance. Topics covered include budgeting and financial planning, federal income taxes, insurance, borrowing, and investment principles and strategies.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

### ECON 22060 PRINCIPLES OF MICROECONOMICS (KSS) 3 Credit Hours

Course discusses decision-making by buyers, sellers, and governments and how their interaction affects market determination of prices. Students compare outcomes and firm decisions in different market structures. Students develop tools to examine social problems such as poverty, crime, pollution and international relations, as well as make better decisions in their own lives.

**Prerequisite:** Minimum 45 ALEKS math score; or minimum 22 ACT math score; or minimum 530 SAT math score; or MATH 00023 or any higher level MATH course.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Kent Core Social Sciences, TAG Social and Behavioral Sciences, Transfer Module Social Sciences

### ECON 22061 PRINCIPLES OF MACROECONOMICS (KSS) 3 Credit Hours

Principles and policies affecting aggregate production, consumption, investment and government expenditures. Includes role of money, the banking system, inflation, unemployment and economic growth.

**Prerequisite:** ECON 22060.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Kent Core Social Sciences, TAG Social and Behavioral Sciences, Transfer Module Social Sciences

### ECON 32025 MONEY, CREDIT AND BANKING 3 Credit Hours

Organization of our money, credit and banking system principles and problems of monetary policy.

**Prerequisite:** ECON 22060 and 22061.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

### ECON 32040 INTERMEDIATE MICROECONOMIC THEORY AND APPLICATIONS 3 Credit Hours

The study of individual choices under conditions of relative scarcity, and their consequences for prices and the allocation of resources in the economic system. Develops the analytical and theoretical tools pertinent in determining how scarce resources are allocated among competing wants and demonstrates how these tools are used in real world applications.

**Prerequisite:** ECON 22060 and 22061.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ECON 32041 INTERMEDIATE MACROECONOMIC THEORY AND POLICY 3 Credit Hours**

This course analyzes key drivers of an economy's GDP, consumption, investment and interest rates. The class will examine economic growth and how it can be impacted by public policy. Students will understand the uses and limitations of a macroeconomic model and will be exposed to the two main schools of thought in macroeconomics. National and international data will be used to better understand these concepts.

**Prerequisite:** ECON 22060 and 22061.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ECON 32050 APPLIED ECONOMETRICS I (ELR) 3 Credit Hours**

The course provides an introduction to the use of statistical analysis in economics. The initial part of the course reviews relevant concepts from probability and statistics. The second course segment focuses on linear regression analysis and the properties of regression estimators. The final course segment discusses extensions of the linear model, and considers problems that may arise in application including omitted variables, nonlinearity, measurement error, sample selection, heteroscedasticity and causality. The SAS statistical software package is used throughout the course for data analysis. Over the second half of the course, students complete an empirical project which requires students to connect the course concepts to the analysis of an economic policy question in a real world data set.

**Prerequisite:** MATH 11012 or MATH 12002; and ECON 22060; and MGMT 24056 or MATH 10041 or MATH 20011.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Experiential Learning Requirement

**ECON 32051 APPLIED ECONOMETRICS II 3 Credit Hours**

The course provides a continuation of Applied Econometrics I, extending the basic linear regression models to more advanced models using cross-sectional, panel or time series data. The initial part of the course focuses on models for discrete and limited dependent variables. The second course segment addresses estimation methods for panel data. The final course segment provides an overview of time series estimation with an emphasis on forecasting in economic data.

**Prerequisite:** ECON 32050.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ECON 32070 LABOR PROBLEMS 3 Credit Hours**

Surveys of the major institutions, features and functioning of the labor market as well as some of its outstanding problems. Does not count toward economics major or minor. Not open to students who have completed ECON 42072.

**Prerequisite:** ECON 22060 and 22061.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ECON 32082 INTRODUCTION TO MANAGERIAL ECONOMICS 3 Credit Hours**

Combines economic theory and quantitative analysis to develop resource-allocation decision-making skills which enable managers to evaluate problems, identify possible solutions and finally implement and monitor the best alternative to accomplish their stated objectives. Covers such topics as supply and demand, consumer theory, production, costs, contracts, game theory, principal-agent problems, and the basic economic models of perfect competition, oligopoly, monopolistic competition and monopoly. Cannot be taken by economics majors. Not open to students who have completed ECON 32040.

**Prerequisite:** ECON 22060.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ECON 32083 THE ECONOMICS OF POVERTY (DIVD) 3 Credit Hours**

Nature and causes of poverty in United States. Analysis of impact of poverty upon economy and study of measures both real and potential for alleviating it.

**Prerequisite:** ECON 22060.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Diversity Domestic

**ECON 32084 ECONOMICS OF THE ENVIRONMENT 3 Credit Hours**

Examines economic theory of environmental and resource economics in a fashion that is understandable by students with varied backgrounds in economics. Emphasis on microeconomic theory and its application to environmental issues. Topics covered include 'market failure' and its impact on the environment; cost benefit analysis; and input-output analysis. Designed for those interested in the environment or who may be planning careers in environmental or natural sciences.

**Prerequisite:** ECON 22060.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ECON 42050 DATA ACQUISITION, PREPARATION AND VISUALIZATION 3 Credit Hours**

(Slashed with ECON 52050) Accessing and collecting data from existing sources (databases and raw data), transformation of raw data into formats that can be used for final analysis, techniques for presentation and visualization of data, predictive analytics using machine learning and cross validation. Students will perform some work in SAS but will also be introduced to the R statistical language.

**Prerequisite:** MGMT 24056.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ECON 42065 PROBLEMS OF MONETARY AND FISCAL POLICY 3 Credit Hours**

Analysis of objectives, techniques and economic effects of monetary and fiscal policies.

**Prerequisite:** ECON 32041.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter



**ECON 42066 ECONOMICS OF ENTREPRENEURSHIP 3 Credit Hours**  
(Slashed with ECON 52066) This course presents a wide-ranging overview of the place of economics in entrepreneurship, with a special focus on how economic research is conducted to study the determinants of entrepreneurship.

**Prerequisite:** ECON 22060.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ECON 42068 INDUSTRIAL ORGANIZATION: FIRMS AND STRATEGY 3 Credit Hours**

(Slashed with ECON 52068) Theoretical, empirical and critical examination of structure, operation and performance of industrial markets in American economy.

**Prerequisite:** ECON 32040.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ECON 42070 GAME THEORY 3 Credit Hours**

Introduction to game theory and its application to economics. Analysis of strategic behavior by economic agents using equilibrium concepts from non-cooperative game theory.

**Prerequisite:** ECON 22060 and ECON 22061.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ECON 42072 LABOR ECONOMICS: WORK AND PAY 3 Credit Hours**

(Slashed with ECON 52072) The economic analysis of the decisions of workers and firms in determination of wages and employment. Topics include labor supply decisions, marginal productivity theory, discrimination, demand for education, effects of trade unions, immigration and growing wage inequality.

**Prerequisite:** ECON 32040.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ECON 42075 INTERNATIONAL ECONOMIC RELATIONS 3 Credit Hours**

Principles, problems and policies of international economic relations with extensive references to the United States, Western Europe, Latin America and former communist countries. Covers international aspects of interdependency, cooperation and multinational institutions.

**Prerequisite:** ECON 22060 and 22061.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ECON 42076 ECONOMIC DEVELOPMENT 3 Credit Hours**

(Slashed with ECON 52076) Analysis of nature of significance of barriers to and future potential for economic development of a nation. Special emphasis on theories and strategic factors pertaining to economic growth.

**Prerequisite:** ECON 22060 and 22061.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ECON 42079 EUROPEAN ECONOMIC ISSUES 3 Credit Hours**

(Slashed with ECON 52079) This course examines current economic issues in the European Union, including the monetary union and Euro, unemployment, immigration, health care, social security, poverty and inequality, and plans for expansion. The historical development and structure of the EU will also be covered and the role of cultural influences will be explored. In some semesters the course includes a required trip to visit European institutions over the Spring Break, at an additional fee.

**Prerequisite:** ECON 22060 and ECON 22061; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ECON 42080 REGIONAL ECONOMICS 3 Credit Hours**

(Slashed with ECON 52080) Examines techniques of regional economic analysis to promote understanding of interregional disparities in developed nations and suggests policy alternatives for alleviating problems arising from disparities.

**Prerequisite:** ECON 22060 and 22061.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ECON 42081 URBAN ECONOMICS: CITIES AND HOUSING 3 Credit Hours**

(Slashed with ECON 52081) Application of economic principles to urban spatial patterns, economic development and public policy in housing, transportation, pollution, welfare, etc.

**Prerequisite:** ECON 22060 and 22061.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ECON 42085 PUBLIC ECONOMICS: GOVERNMENT AND POLICY 3 Credit Hours**

(Slashed with ECON 52085) Examination of the role of government in the economy, including market failures, the efficiency and equity of taxation, government involvement in health care, education, and income distribution, and current government policy issues.

**Prerequisite:** ECON 22060.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ECON 42086 ECONOMICS OF HEALTH CARE 3 Credit Hours**

(Slashed with ECON 52086) Overall objective is to use economic analysis to understand and evaluate what has and is happening to the health care profession and current health care policies under consideration. Topics include issues such as Medicare, health care reform, HMOs and increasing costs in health care.

**Prerequisite:** ECON 22060.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ECON 42187 INTERNATIONAL ECONOMIC EXPERIENCE 3 Credit Hours**

Firsthand exposure to international economics. Includes pre-trip orientation sessions, visits to international businesses and organizations, and opportunities for cultural activities.

**Prerequisite:** Economics major or minor; and junior standing; and special approval.

**Schedule Type:** Field Experience

**Contact Hours:** 9 other

**Grade Mode:** Standard Letter

**ECON 42191 SENIOR SEMINAR IN ECONOMICS (WIC) 3 Credit Hours**

Advanced investigation of selected topics in economic analysis and issues in economic policy.

**Prerequisite:** ECON 32050, ECON 32040 and ECON 32041 with a minimum C- grade.

**Schedule Type:** Seminar

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**Attributes:** Writing Intensive Course

**ECON 42291 VARIABLE CONTENT SEMINAR IN ECONOMICS 1-4 Credit Hours**

(Repeatable for a maximum of 12 hours) (Slashed with ECON 52291)

Various special seminars will be announced in the schedule of classes under this course number.

**Prerequisite:** Permission.

**Schedule Type:** Seminar

**Contact Hours:** 1-4 other

**Grade Mode:** Standard Letter

**ECON 42292 INTERNSHIP IN ECONOMICS (ELR) 3 Credit Hours**

(Repeatable for credit) Supervised practical experience in economics. May count toward the economics major electives or as a business elective.

**Prerequisite:** At least two of the following courses: ECON 32040, ECON 32041 or ECON 32050; a minimum 2.250 overall GPA; and economics major; and special approval.

**Schedule Type:** Practical Experience

**Contact Hours:** 9 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**Attributes:** Experiential Learning Requirement

**ECON 42293 VARIABLE TOPIC WORKSHOP IN ECONOMICS 1-6 Credit Hours**

(Repeated registration permitted when topic varies; repeatable for a total of 18 hours) various special workshops will be announced in the schedule of classes under this course number.

**Prerequisite:** Permission.

**Schedule Type:** Workshop

**Contact Hours:** 1-6 other

**Grade Mode:** Satisfactory/Unsatisfactory

**ECON 42295 SPECIAL TOPICS IN ECONOMICS 3 Credit Hours**

(Repeatable for a maximum of 9 credit hours) (Slashed with ECON 52295) Various special topics will be announced in the schedule of classes under this course number.

**Prerequisite:** Special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ECON 42296 INDIVIDUAL INVESTIGATION IN ECONOMICS 1-3 Credit Hours**

(Repeatable for credit) Independent study done under the supervision of a faculty member. Written approval of supervising faculty member and department chair required prior to registration.

**Prerequisite:** Senior Economics major; and special approval.

**Schedule Type:** Individual Investigation

**Contact Hours:** 1-3 other

**Grade Mode:** Standard Letter-IP

**ECON 42297 VARIABLE TOPIC COLLOQUIUM IN ECONOMICS 1-3 Credit Hours**

(Repeated registration permitted when topic varies; Repeatable for a total of 9 hours) Various special colloquia will be announced in the schedule of classes under this number.

**Prerequisite:** Permission.

**Schedule Type:** Colloquium

**Contact Hours:** 1-3 other

**Grade Mode:** Standard Letter

**ECON 42298 RESEARCH IN ECONOMICS (ELR) 1-6 Credit Hours**

(Repeatable for credit) Research project done under the supervision of a faculty member. Written approval of supervising faculty member and department chair required prior to registration.

**Prerequisite:** Senior Economics major; and special approval.

**Schedule Type:** Research

**Contact Hours:** 1-6 other

**Grade Mode:** Standard Letter-IP

**Attributes:** Experiential Learning Requirement

**ECON 42299 SENIOR PROJECT (ELR) 1-3 Credit Hours**

(Repeatable for credit) Thesis or independent study project done under the supervision of a faculty member. Written approval of supervising faculty member and department chair required prior to registration.

**Prerequisite:** Senior economics major; and special approval.

**Schedule Type:** Senior Project/Honors Thesis

**Contact Hours:** 1-3 other

**Grade Mode:** Standard Letter-IP

**Attributes:** Experiential Learning Requirement

**ECON 52050 DATA ACQUISITION, PREPARATION AND VISUALIZATION 3 Credit Hours**

(Slashed with ECON 42050) Accessing and collecting data from existing sources (databases and raw data), transformation of raw data into formats that can be used for final analysis, techniques for presentation and visualization of data, predictive analytics using machine learning and cross validation. Students will perform some work in SAS but will also be introduced to the R statistical language.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ECON 52065 PROBLEMS OF MONETARY AND FISCAL POLICY 3 Credit Hours**

Analysis of objectives, techniques and economic effects of monetary and fiscal policies.

**Prerequisite:** ECON 32041 or ECON 62021; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ECON 52066 ECONOMICS OF ENTREPRENEURSHIP 3 Credit Hours**

(Slashed with ECON 42066) This course presents a wide-ranging overview of the place of economics in entrepreneurship, with a special focus on how economic research is conducted to study the determinants of entrepreneurship.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ECON 52068 INDUSTRIAL ORGANIZATION: FIRMS AND STRATEGY****3 Credit Hours**

(Slashed with ECON 42068) Theoretical, empirical and critical examination of structure, operation and performance of industrial markets in American economy.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ECON 52072 LABOR ECONOMICS: WORK AND PAY 3 Credit Hours**

(Slashed with ECON 42072) The economic analysis of the decisions of workers and firms in determination of wages and employment.

Topics include labor supply decisions, marginal productivity theory, discrimination, demand for education, effects of trade unions, immigration and growing wage inequality. For students that did not attend Kent State University for their undergraduate degree, please contact the department for approval.

**Prerequisite:** ECON 32040; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ECON 52076 ECONOMIC DEVELOPMENT 3 Credit Hours**

(Slashed with ECON 42076) Analysis of nature and significance of barriers to and future potential for economic development of a nation. Special emphasis on theories and strategic factors pertaining to economic growth.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ECON 52079 EUROPEAN ECONOMIC ISSUES 3 Credit Hours**

(Slashed with ECON 42079) This course examines current economic issues in the European Issues, including the monetary union and Euro, unemployment, immigration, health care, social security, poverty and inequality, and plans for expansion. The historical development and structure of the EU are also covered and the role of cultural influences are explored. In some semesters the course includes a required trip to visit European institutions over the Spring Break, at an additional fee.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ECON 52080 REGIONAL ECONOMICS 3 Credit Hours**

(Slashed with ECON 42080) Examines techniques of regional economic analysis to promote understanding of interregional disparities in developed nations and suggests policy alternatives for alleviating problems arising from disparities.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ECON 52081 URBAN ECONOMICS: CITIES AND HOUSING 3 Credit Hours**

(Slashed with ECON 42081) Application of economic principles to urban spatial patterns, economic development, and public policy in housing, transportation, pollution, welfare, etc.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ECON 52085 PUBLIC ECONOMICS: GOVERNMENT AND POLICY 3 Credit Hours**

(Slashed with ECON 42085) Examination of public expenditure and taxation policies including the theory of public goods, collective decision making, cost-benefit analysis, equity and efficiency aspects of taxation and current government policy issues.

**Prerequisite:** ECON 22060; and Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ECON 52086 ECONOMICS OF HEALTH CARE 3 Credit Hours**

(Slashed with ECON 42086) Overall objective is to use economic analysis to understand and evaluate what has and is happening to the health care profession and current health care policies under consideration. Topics include issues such as Medicare, health care reform, HMO's and increasing costs in health care.

**Prerequisite:** ECON 62022; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ECON 52187 INTERNATIONAL ECONOMICS EXPERIENCE 3 Credit Hours**

(Slashed with ECON 42187) Firsthand exposure to international economics. Includes pre-trip orientation sessions, visits to international business and organizations, and opportunities for cultural activities.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Field Experience

**Contact Hours:** 9 other

**Grade Mode:** Standard Letter

**ECON 52291 VARIABLE CONTENT SEMINAR IN ECONOMICS 1-4 Credit Hours**

(Repeatable for a maximum of 12 credit hours) (Slashed with ECON 42291) Various special seminars will be announced in the schedule of classes under this course number.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Seminar

**Contact Hours:** 1-4 other

**Grade Mode:** Standard Letter

**ECON 52293 VARIABLE TOPIC WORKSHOP IN ECONOMICS 1-6 Credit Hours**

(Repeatable for a maximum of 18 credit hours) Various special workshops will be announced in the schedule of classes under this course number.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Workshop

**Contact Hours:** 1-6 other

**Grade Mode:** Satisfactory/Unsatisfactory

**ECON 52295 SPECIAL TOPICS IN ECONOMICS 3 Credit Hours**

(Repeatable for a maximum of 9 credit hours) (Slashed with ECON 42295) Various special topics will be announced in the schedule of classes under this course number.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ECON 52297 VARIABLE TOPIC COLLOQUIUM IN ECONOMICS 1-3 Credit Hours**

(Repeatable for a maximum of 9 credit hours) Various special colloquia will be announced in the schedule of classes under this number.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Colloquium

**Contact Hours:** 1-3 other

**Grade Mode:** Standard Letter

**ECON 60199 THESIS I 2-6 Credit Hours**

(Repeatable for credit) Thesis students must register for a total of 6 hours, 2 to 6 hours in a single semester distributed over several semesters if desired.

**Prerequisite:** Graduate standing.

**Schedule Type:** Masters Thesis

**Contact Hours:** 2-6 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**ECON 60299 THESIS II 2 Credit Hours**

Thesis students must continue registration each semester until all degree requirements are met.

**Prerequisite:** ECON 60199; and graduate standing.

**Schedule Type:** Masters Thesis

**Contact Hours:** 2 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**ECON 62010 SURVEY OF ECONOMICS 3 Credit Hours**

Survey of basic economic concepts and methods of analysis of both micro- and macroeconomics. Emphasis is placed on the use and relevance of economic concepts and tools in business decision-making.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ECON 62015 ECONOMICS OF INFORMATION 3 Credit Hours**

Introduction to microeconomic theory and decision-making and its applications to the information economy. Overview of the economics of information. Consumer behavior and production theory; the demand for information; information as a factor of production; information costs and pricing. Case studies in the information industry.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ECON 62021 GLOBAL CONDITIONS AND MACROECONOMICS POLICY 2 Credit Hours**

(Slashed with ECON 72021) Analysis of forces determining economic growth, employment, inflation and global economic environment with emphasis on understanding the business cycle and government stabilization policies.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**ECON 62022 MANAGERIAL ECONOMICS 2 Credit Hours**

(Slashed with ECON 72022) Uses economic theory and quantitative methodologies to develop decision-making skills which enable managers of local, national and multinational companies to evaluate problems and allocate resources efficiently.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**ECON 62050 MICROECONOMIC THEORY I 3 Credit Hours**

(Slashed with ECON 72050) Comprehensive analysis of methodology of economics, consumer behavior production and costs the firm, markets and welfare economics. (It would be useful if the student had some facility in integral and differential calculus)

**Prerequisite:** ECON 62022; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ECON 62051 MACROECONOMIC THEORY I 3 Credit Hours**

(Slashed with ECON 72051) Analysis of the determination of the level of income, employment inflation economic growth consumption investment money demand and supply the international sector and economic policy are discussed.

**Prerequisite:** ECON 62021 and ECON 62022; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ECON 62054 ECONOMETRICS I 3 Credit Hours**

(Slashed with ECON 72054) Introduction to problems and methods of the empirical estimation of economic relationships.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ECON 62055 ECONOMETRICS II 3 Credit Hours**

(Slashed with ECON 72055) Covers generalized linear regression, mixed estimation, simultaneous equation systems, their identification and estimation by single equation and systems estimation.

**Prerequisite:** ECON 62054; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ECON 62056 TIME SERIES ANALYSIS 3 Credit Hours**

Covers various linear and non-linear time series models, market risk and value at risk (VAR). Students will gain hands on-experience with all models learned in the course. This course uses advanced analytical software and hardware on the financial engineering trading floor.

**Prerequisite:** Graduate standing; and special approval of instructor.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ECON 62061 MONETARY THEORY AND POLICY 3 Credit Hours**

(Slashed with ECON 72061) A study of the nature and definition of money, its relationship to prices, output, employment, and interest rates and problems related to the conduct of monetary policy.

**Prerequisite:** ECON 62021; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ECON 62072 ECONOMICS OF LABOR MARKETS 3 Credit Hours**

The economic analysis of the decisions of workers and firms in determination of wages and employment. Topics include labor supply decisions, marginal productivity theory, discrimination, demand for education, effects of trade unions, immigration and wage inequality.

**Prerequisite:** ECON 32040 or ECON 62022; and ECON 62054 or MIS 84023; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ECON 62075 INTERNATIONAL TRADE 3 Credit Hours**

(Slashed with ECON 72075) Study of modern international trade theory and policy, including free trade areas, international trade organizations, current issues in international trade and the effect of international trade on domestic policy.

**Prerequisite:** ECON 62021 and ECON 62022; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ECON 62076 INTERNATIONAL FINANCE 3 Credit Hours**

(Slashed with ECON 72076) Study of the international monetary relations between nations, including the determination of exchange rates, managed exchange rate policies, balance of payments crises, optimum currency areas, and international capital flows.

**Prerequisite:** ECON 62021; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ECON 62077 ECONOMIC PROBLEMS OF DEVELOPING AREAS 3 Credit Hours**

In-depth analysis of selected topics and issues in development economics.

**Prerequisite:** ECON 52076; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ECON 62092 INTERNSHIP IN ECONOMICS 3 Credit Hours**

(Repeatable for credit) Supervised practical experience in economics. Students must have a minimum 3.000 GPA in the economics major within the MAE degree and completed 4 courses from the MAE.

**Prerequisite:** Admitted to the Master of Arts in Economics program; and special approval.

**Schedule Type:** Practical Experience

**Contact Hours:** 3 other

**Grade Mode:** Satisfactory/Unsatisfactory

**ECON 62095 SPECIAL TOPICS IN ECONOMICS 3 Credit Hours**

(Repeatable 3 times for credit) Various special topics will be announced in the Schedule of Classes under this course number.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ECON 62096 INDEPENDENT STUDY 1-3 Credit Hours**

(Repeatable for credit) Independent study on a particular project or sequence of subjects. Maximum of 6 semester hours of work may be earned in independent study although no more than 3 hours in any one semester.

**Prerequisite:** Graduation standing; and special approval.

**Schedule Type:** Individual Investigation

**Contact Hours:** 1-3 other

**Grade Mode:** Standard Letter-IP

**ECON 62098 RESEARCH 1-15 Credit Hours**

(Repeatable for credit) Research for master's students. May apply toward degree requirements if approved in advance by department.

**Prerequisite:** Graduate standing.

**Schedule Type:** Research

**Contact Hours:** 1-15 other

**Grade Mode:** Standard Letter

**ECON 62180 REGIONAL ECONOMICS 3 Credit Hours**

Examines techniques of regional economic analysis with the object of promoting understanding of interregional disparities in developed nations and policies for alleviating problems arising from disparities.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ECON 62199 THESIS I 2-6 Credit Hours**

Thesis students must register for total of 6 hours, 2 to 6 hours in a single semester, distributed over several semesters if desired.

**Prerequisite:** Graduate standing and special approval of adviser.

**Schedule Type:** Masters Thesis

**Contact Hours:** 2-6 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**ECON 62299 THESIS II 2 Credit Hours**

Thesis students must continue registration each semester until all degree requirements are met.

**Prerequisite:** ECON 62199; and graduate standing.

**Schedule Type:** Masters Thesis

**Contact Hours:** 2 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**ECON 64004 QUANTITATIVE METHODS IN BUSINESS****ADMINISTRATION I 3 Credit Hours**

(Slashed with ECON 74004) Introduction to fundamentals of matrix algebra, differential calculus and linear programming. Both algebraic and transcendental functions are included in discussion.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ECON 72021 GLOBAL CONDITIONS AND MACROECONOMIC POLICY ANALYSIS 2 Credit Hours**

(Slashed with ECON 62021) Analysis of forces determining economic growth, employment, inflation and global economic environment with emphasis on understanding the business cycle and government stabilization policies.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter



**ECON 72022 MANAGERIAL ECONOMICS 2 Credit Hours**

(Slashed with ECON 62022) Uses economic theory and quantitative methodologies to develop decision-making skills which enable managers to evaluate problems and allocate resources efficiently.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**ECON 72050 MICROECONOMIC THEORY I 3 Credit Hours**

(Slashed with ECON 62050) Comprehensive analysis of methodology of economics, consumer behavior, production and costs, the firm, markets and welfare economics. It would be useful if the student had some facility in integral and differential calculus.

**Prerequisite:** ECON 62022; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ECON 72051 MACROECONOMIC THEORY I 3 Credit Hours**

(Slashed with ECON 62051) Analysis of the determination of the level of income, employment, inflation, economic growth, consumption, investment, money demand and supply, the international sector and economic policy are discussed.

**Prerequisite:** ECON 62021 and ECON 62022; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ECON 72054 ECONOMETRICS I 3 Credit Hours**

(Slashed with ECON 62054) Introduction to problems and methods of the empirical estimation of economic relationships.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ECON 72055 ECONOMETRICS II 3 Credit Hours**

(Slashed with ECON 62055) Covers generalized linear regression, mixed estimation, simultaneous equation systems, their identification and estimation by single equation and systems estimation.

**Prerequisite:** ECON 62054; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ECON 72056 TIME SERIES ANALYSIS 3 Credit Hours**

Covers various linear and nonlinear time series models, market risk and value at risk (VAR). Students will gain hands on-experience with all models learned in the course. This course uses advanced analytical software and hardware on the financial engineering trading floor.

**Prerequisite:** Doctoral standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ECON 72061 MONETARY THEORY AND POLICY 3 Credit Hours**

(Slashed with ECON 62061) A study of the nature and definition of money, its relationship to prices, output, employment, and interest rates and, problems related to the conduct of monetary policy.

**Prerequisite:** ECON 62021; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ECON 72075 INTERNATIONAL TRADE 3 Credit Hours**

(Slashed with ECON 62075) Study of modern international trade theory and policy, including free trade areas, international trade organizations, current issues in international trade and the effect of international trade on domestic policy.

**Prerequisite:** ECON 62021 and ECON 62022; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ECON 72076 INTERNATIONAL FINANCE 3 Credit Hours**

(Slashed with ECON 62076) Study of the international monetary relations between nations, including the determination of exchange rates, managed exchange rate policies, balance of payments crises, optimum currency areas and, international capital flows.

**Prerequisite:** ECON 62021; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ECON 72180 REGIONAL ECONOMICS 3 Credit Hours**

Examines techniques of regional economic analysis with the object of promoting understanding of interregional disparities in developed nations and policies for alleviating problems arising from disparities.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ECON 74004 QUANTITATIVE METHODS IN BUSINESS****ADMINISTRATION I 3 Credit Hours**

(Slashed with ECON 64004) Introduction to fundamentals of matrix algebra, differential calculus and linear programming. Both algebraic and transcendental functions are included in discussion.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ECON 82024 SEMINAR IN APPLIED ECONOMIC ANALYSIS 3 Credit Hours**

Discussion and analysis of selected current economic problems confronting the economy and the business sector. Emphasis will be on applied analysis.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Seminar

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ECON 82072 ECONOMICS OF LABOR MARKETS 3 Credit Hours**

The economic analysis of the decisions of workers and firms in determination of wages and employment. Topics include labor supply decisions, marginal productivity theory, discrimination, demand for education, effects of trade unions, immigration and wage inequality.

**Prerequisite:** ECON 32040 or ECON 62022; and ECON 62054 or

MIS 84023; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

## Data Analytics - Minor

**College of Business Administration**

Department of Economics

480 Business Administration Building

Kent Campus  
330-672-2366  
economics@kent.edu  
www.kent.edu/business/economics

## Description

The Data Analytics minor trains students to use data to inform decision-making and create solutions. Students learn to acquire and collect raw data in various formats, concert raw data in various formats, convert raw data to usable formats and then understand how to appropriately analyze the data to draw accurate and useful conclusions. Graduates of the program will be able to use their skills across a wide-range of industries as well as in the non-profit and government sectors.

### Fully Offered At:

- Kent Campus

## Admission Requirements

Admission to a minor is open to students declared in a bachelor's degree, the A.A.B. or A.A.S. degree or the A.T.S. degree (not Individualized Program major). Students declared only in the A.A. or A.S. degree or the A.T.S. degree in Individualized Program may not declare a minor. Students may not pursue a minor and a major in the same discipline.

To declare the Data Analytics minor, students must have completed following courses (or their equivalent) with a minimum C- grade: ECON 22060 and MATH 11012 (or MATH 12002).

## Minor Requirements

Code	Title	Credit Hours
<b>Minor Requirements</b>		
ECON 32050	APPLIED ECONOMETRICS I (ELR) (min C grade)	3
ECON 32051	APPLIED ECONOMETRICS II	3
ECON 42050	DATA ACQUISITION, PREPARATION AND VISUALIZATION	3
MGMT 24056	BUSINESS ANALYTICS I	3
Programming Elective, choose from the following:		
CIS 34070	PROGRAMMING THEORY AND APPLICATIONS	3
CS 13011 & CS 13012	COMPUTER SCIENCE IA: PROCEDURAL PROGRAMMING and COMPUTER SCIENCE IB: OBJECT ORIENTED PROGRAMMING	3
EMAT 15310	CREATIVE CODING	3
Programming or Applied Economics Elective, choose from the following:		
<i>Programming Elective</i>		
CIS 44033	ADVANCED COMPUTER PROGRAMMING FOR BUSINESS	3
CS 23001	COMPUTER SCIENCE II: DATA STRUCTURES AND ABSTRACTION	3
<i>Applied Economics Elective</i> <sup>1</sup>		
ECON 42068	INDUSTRIAL ORGANIZATION: FIRMS AND STRATEGY	3
ECON 42072	LABOR ECONOMICS: WORK AND PAY	3

ECON 42191 SENIOR SEMINAR IN ECONOMICS (WIC)

Minimum Total Credit Hours:

18

- <sup>1</sup> Students may be allowed to choose an appropriate applied data course from their major discipline, subject to approval by the undergraduate coordinator in economics.

## Graduation Requirements

Minimum Minor GPA	Minimum Overall GPA
2.500	2.000

- Students are expected to satisfy course prerequisites for each course required in the minor. Prerequisites are not tied to a particular catalog; therefore it is important to look at the most current information about a course.
- Student may not pursue a minor and a major in the same discipline
- Minimum 6 credit hours in the minor must be upper-division coursework (30000 and 40000 level).
- Minimum 6 credit hours in the minor must be outside of the course requirements for any major or other minor the student is pursuing.
- Minimum 50 percent of the total credit hours for the minor must be taken at Kent State (in residence).

## Economics - B.B.A.

### College of Business Administration

Department of Economics  
480 Business Administration Building  
Kent Campus  
330-672-2366  
economics@kent.edu  
www.kent.edu/business/economics

## Description

The Bachelor of Business Administration degree in Economics equips students with a variety of skills sought by employers, including conceptualizing and solving problems; locating, organizing and using relevant information; and analytical ability.

In their junior year, students learn microeconomic and macroeconomic theory and take an econometrics class to learn basic analytical skills. Students then take a series of electives that deal with vital current topics relevant to many careers in which these theories and skills are applied, such as U.S. financial and banking system; the economic relations between the United States and foreign countries; government spending and taxation policies; and the U.S. health system and policy options.

During their senior year, students take a capstone course that utilizes and applies the theory, skills and institutional knowledge learned in the program.

Economics students may apply early to either the M.B.A. degree or the Master of Arts in Economics degree and double count 9 credit hours of graduate courses toward both degree programs. See the Combined Bachelor's/Master's Degree Program policy in the University Catalog for more information.

## Fully Offered At:

- Kent Campus

## Accreditation

AACSB, International - The Association to Advance Collegiate Schools of Business

## Admission Requirements

The university affirmatively strives to provide educational opportunities and access to students with varied backgrounds, those with special talents and adult students who graduated from high school three or more years ago.

**Freshman Students on the Kent Campus:** The freshman admission policy on the Kent Campus is selective. Admission decisions are based upon the following: cumulative grade point average, ACT and/or SAT scores, strength of high school college preparatory curriculum and grade trends. The Admissions Office at the Kent Campus may defer the admission of students who do not meet admissions criteria but who demonstrate areas of promise for successful college study. Deferred applicants may begin their college coursework at one of seven regional campuses of Kent State University. For more information on admissions, including additional requirements for some academic programs, visit the admissions website for new freshmen.

**Freshman Students on the Regional Campuses:** Kent State campuses at Ashtabula, East Liverpool, Geauga, Salem, Stark, Trumbull and Tuscarawas, as well as the Regional Academic Center in Twinsburg, have open enrollment admission for students who hold a high school diploma, GED or equivalent.

**English Language Proficiency Requirements for International Students:** All international students must provide proof of English language proficiency (unless they meet specific exceptions) by earning a minimum 525 TOEFL score (71 on the Internet-based version), minimum 75 MELAB score, minimum 6.0 IELTS score or minimum 48 PTE score, or by completing the ESL level 112 Intensive Program. For more information on international admission, visit the Office of Global Education's admission website.

**Transfer, Transitioning and Former Students:** For more information about admission criteria for transfer, transitioning and former students, please visit the admissions website.

An overall GPA of at least 2.50 (2.25 for economics and entrepreneurship) is required for admission into the College of Business Administration. Students who have previously attended Kent State must also have a minimum 2.50 GPA (2.25 for economics) in their former Kent State coursework.

## Program Learning Outcomes

Graduates of this program will be able to:

1. Conceptualize and analyze problems using economic concepts and reasoning.
2. Critically analyze alternative economic policy proposals.
3. Use analytic and quantitative techniques that are use extensively in economic to formulate and test hypotheses.

Graduates of all Bachelor of Business Administration programs will be able to:

1. Recall strategic frameworks that are used to make business decisions.
2. Perform basic calculations using quantitative tools that are used to support business decisions.
3. Articulate and deliberate their ideas in writing.
4. Articulate and deliberate their ideas orally.
5. Identify ethical dilemmas and stakeholders.
6. Recommend alternatives and consequences and choose a reasoned conclusion from the alternatives given.
7. Identify global factors in making a business decision.
8. Analyze global factors in making a business decision.

## University Requirements

All students in a bachelor's degree program at Kent State University must complete the following university requirements for graduation.

**NOTE:** University requirements may be fulfilled in this program by specific course requirements. Please see Program Requirements for details.

Destination Kent State: First Year Experience	1
Course is not required for students with 25 transfer credits, excluding College Credit Plus, or age 21+ at time of admission.	
Diversity Domestic/Global (DIVD/DIVG)	2 courses
Students must successfully complete one domestic and one global course, of which one must be from the Kent Core.	
Experiential Learning Requirement (ELR)	varies
Students must successfully complete one course or approved experience.	
Kent Core (see table below)	36-37
Writing-Intensive Course (WIC)	1 course
Students must earn a minimum C grade in the course.	
Upper-Division Requirement	39 (or 42)
Students must successfully complete 39 upper-division (numbered 30000 to 49999) credit hours to graduate. Students in a B.A. and/or B.S. degree in the College of Arts and Sciences must complete 42 upper-division credit hours.	
Total Credit Hour Requirement	120
Some bachelor's degrees require students to complete more than 120 credit hours.	

## Kent Core Requirements

Kent Core Composition (KCMP)	6
Kent Core Mathematics and Critical Reasoning (KMCR)	3
Kent Core Humanities and Fine Arts (KHUM/KFA) (min one course each)	9
Kent Core Social Sciences (KSS) (must be from two disciplines)	6
Kent Core Basic Sciences (KBS/KLAB) (must include one laboratory)	6-7
Kent Core Additional (KADL)	6
<b>Total Credit Hours:</b>	<b>36-37</b>

## Program Requirements

### Major Requirements

Code	Title	Credit Hours
<b>Major Requirements (courses count in major GPA)</b>		
ECON 32040	INTERMEDIATE MICROECONOMIC THEORY AND APPLICATIONS (min C- grade)	3
ECON 32041	INTERMEDIATE MACROECONOMIC THEORY AND POLICY (min C- grade)	3
ECON 32050	APPLIED ECONOMETRICS I (ELR) (min C- grade)	3
ECON 42191	SENIOR SEMINAR IN ECONOMICS (WIC) (min C grade)	3
Economics (ECON) Upper-Division Electives (30000 or 40000 level)		12
<b>Additional Requirements (courses do not count in major GPA)</b>		
ACCT 23020	INTRODUCTION TO FINANCIAL ACCOUNTING	3
ACCT 23021	INTRODUCTION TO MANAGERIAL ACCOUNTING	3
BUS 10123	EXPLORING BUSINESS <sup>1</sup>	3
BUS 30062	ADVANCED PROFESSIONAL DEVELOPMENT	3
CIS 24053	INTRODUCTION TO COMPUTER APPLICATIONS	3
COMM 15000	INTRODUCTION TO HUMAN COMMUNICATION (KADL)	3
ECON 22060	PRINCIPLES OF MICROECONOMICS (KSS)	3
ECON 22061	PRINCIPLES OF MACROECONOMICS (KSS)	3
FIN 26074	LEGAL ENVIRONMENT OF BUSINESS	3
FIN 36053	BUSINESS FINANCE	3
MATH 11010	ALGEBRA FOR CALCULUS (KMCR)	3
MATH 11012	INTUITIVE CALCULUS (KMCR)	3-5
or MATH 12002	ANALYTIC GEOMETRY AND CALCULUS I (KMCR)	
MGMT 24056	BUSINESS ANALYTICS I	3
MGMT 24163	PRINCIPLES OF MANAGEMENT	3
MGMT 34060	OPERATIONS MANAGEMENT	3
MGMT 44285	INTEGRATED BUSINESS POLICY AND STRATEGY	3
MKTG 25010	PRINCIPLES OF MARKETING	3
UC 10097	DESTINATION KENT STATE: FIRST YEAR EXPERIENCE	1
UC 10162	INTRODUCTION TO PROFESSIONAL DEVELOPMENT	1
Kent Core Composition		6
Kent Core Humanities and Fine Arts (minimum one course from each)		9
Kent Core Social Sciences		3
Kent Core Basic Sciences (must include one laboratory)		6-7
General Electives (total credit hours depends on earning 120 credit hours, including 39 upper-division credit hours) <sup>3</sup>		19
Minimum Total Credit Hours:		120

<sup>1</sup> A student changing to the College of Business Administration or transferring may be waived out of BUS 10123 if:

- 30 or more credit hours have been earned and any two classes (from ACCT 23020, ACCT 23021, FIN 26074, MGMT 24163, MKTG 25010 or CIS 24053) have successfully been completed.
- 60 or more credit hours have been earned and the student has successfully completed one course from (ACCT 23020, ACCT 23021, FIN 26074, MGMT 24163, MKTG 25010 or CIS 24053)
- At the discretion of the Dean's Office, the student has sufficient breadth and depth of knowledge in a business field (as demonstrated by a CLEP exam or Credit by Exam) but does not meet the requirements listed above.

<sup>2</sup> Students who have taken MATH 10041 for another program may use it as a substitute for MGMT 24056.

<sup>3</sup> Students may take or use any course at any level as long as the minimum 39-credit hours requirement for upper-division courses is satisfied for graduation with a B.B.A. Exceptions: Maximum 4 credit hours of Physical Activity, Wellness and Sport (PWS) courses may be counted toward the 120 total credit hours or 39-upper-division-credit-hours graduation requirement. General elective courses may be selected from any area and at any level provided students do not go over the PWS, and they satisfy the 39 credit hours upper-division requirements. A minor (business or non-business) is encouraged. Any other exceptions must be approved by the assistant dean. A major in economics also is offered in the College of Arts and Sciences.

### Progression Requirements

- Minimum C- grade in ECON 32040, ECON 32041 and ECON 32050
- Minimum C grade is in ECON 42191

### Graduation Requirements

Minimum Major GPA	Minimum Overall GPA
2.250	2.250

- This major is not available to students pursuing a Bachelor of Arts in Economics.
- The following courses do not count toward the economics major: ECON 32070 and ECON 32082.
- Students must complete at least 50 percent of business credit hours (required for the business degree) in-residence on a Kent State University campus.
- Students must complete two measures of outcomes assessment as specified by the College of Business Administration for complete satisfaction of the B.B.A.

### Roadmap

This roadmap is a recommended semester-by-semester plan of study for this major. However, courses designated as critical (!) must be completed in the semester listed to ensure a timely graduation.

Semester One		Credits
BUS 10123	EXPLORING BUSINESS	3
COMM 15000	INTRODUCTION TO HUMAN COMMUNICATION (KADL)	3
MATH 11010	ALGEBRA FOR CALCULUS (KMCR)	3
UC 10097	DESTINATION KENT STATE: FIRST YEAR EXPERIENCE	1
Kent Core Requirement		3
Kent Core Requirement		3
Credit Hours		16
Semester Two		Credits
CIS 24053	INTRODUCTION TO COMPUTER APPLICATIONS	3
ECON 22060	PRINCIPLES OF MICROECONOMICS (KSS)	3
MATH 11012	INTUITIVE CALCULUS (KMCR)	3-5
or MATH 12002	or ANALYTIC GEOMETRY AND CALCULUS I (KMCR)	
UC 10162	INTRODUCTION TO PROFESSIONAL DEVELOPMENT	1

Kent Core Requirement	3
Kent Core Requirement	3
Credit Hours	16
<b>Semester Three</b>	
ACCT 23020 INTRODUCTION TO FINANCIAL ACCOUNTING	3
ECON 22061 PRINCIPLES OF MACROECONOMICS (KSS)	3
MGMT 24056 BUSINESS ANALYTICS I	3
MGMT 24163 PRINCIPLES OF MANAGEMENT	3
Kent Core Requirement	3
Credit Hours	15
<b>Semester Four</b>	
ACCT 23021 INTRODUCTION TO MANAGERIAL ACCOUNTING	3
BUS 30062 ADVANCED PROFESSIONAL DEVELOPMENT	3
ECON 32040 INTERMEDIATE MICROECONOMIC THEORY AND APPLICATIONS	3
or ECON 32041 INTERMEDIATE MACROECONOMIC THEORY AND POLICY	
or ECON 32050 APPLIED ECONOMETRICS I (ELR)	
Economics (ECON) Upper-Division Electives (30000 or 40000 level)	3
Kent Core Requirement	3
Credit Hours	15
<b>Semester Five</b>	
Required: minimum cumulative 2.250 GPA	
ECON 32040 INTERMEDIATE MICROECONOMIC THEORY AND APPLICATIONS	3
or ECON 32041 INTERMEDIATE MACROECONOMIC THEORY AND POLICY	
or ECON 32050 APPLIED ECONOMETRICS I (ELR)	
FIN 36053 BUSINESS FINANCE	3
MGMT 34060 OPERATIONS MANAGEMENT	3
MKTG 25010 PRINCIPLES OF MARKETING	3
Kent Core Requirement	3
Credit Hours	15
<b>Semester Six</b>	
Required: minimum cumulative 2.250 GPA	
! ECON 32040 INTERMEDIATE MICROECONOMIC THEORY AND APPLICATIONS	3
or ECON 32041 INTERMEDIATE MACROECONOMIC THEORY AND POLICY	
or ECON 32050 APPLIED ECONOMETRICS I (ELR)	
FIN 26074 LEGAL ENVIRONMENT OF BUSINESS	3
Economics (ECON) Upper-Division Electives (30000 or 40000 level)	3
General Electives	6
Credit Hours	15
<b>Semester Seven</b>	
Required: minimum cumulative 2.250 GPA	
Economics (ECON) Upper-Division Electives (30000 or 40000 level)	3
Kent Core Requirement	3
General Electives	9
Credit Hours	15
<b>Semester Eight</b>	
Required: minimum cumulative 2.250 GPA and completion of The Assurance of Learning Assessment given in MGMT 44285	
! ECON 42191 SENIOR SEMINAR IN ECONOMICS (WIC)	3
MGMT 44285 INTEGRATED BUSINESS POLICY AND STRATEGY	3
Economics (ECON) Upper-Division Electives (30000 or 40000 level)	3

General Electives	4
Credit Hours	13
Minimum Total Credit Hours:	120

## Economics - M.A.E.

### College of Business Administration

Department of Economics  
480 Business Administration Building  
Kent Campus  
330-672-2366  
economics@kent.edu  
www.kent.edu/business/economics

## Description

The Master of Arts in Economics degree provides excellent preparation for a career as an analyst in government or the private sector, and for doctoral study.

The Economics major comprises the following concentrations:

- The **Economic Analysis** concentration has a distinct advantage for students in its focus on the development of strong analytical and quantitative skills. Students are well-trained in the application of economic theory and methods of statistical analysis.
- The **Financial Economics** concentration is primarily designed for students who wish to pursue careers in the financial services industry, including commercial banking, investment banking, insurance, real estate and financial advising.

## Fully Offered At:

- Kent Campus

## Accreditation

AACSB International - The Association to Advance Collegiate Schools of Business

### Admission Requirements

- Bachelor's degree from an accredited college or university for unconditional admission
- Minimum 3.000 undergraduate GPA on a 4.000 point scale for unconditional admission
- Official transcript(s)
- GMAT or GRE scores (GMAT/GRE requirement will be waived for applicants who graduated with the Kent State undergraduate Economics major or minor or the Data Analytics minor within the past five years)
- Goal statement
- Resume
- Three letters of recommendation
- English language proficiency - all international students must provide proof of English language proficiency (unless they meet specific exceptions) by earning one of the following:
  - Minimum 550 TOEFL PBT score (paper-based version)
  - Minimum 80 TOEFL IBT score (internet-based version)
  - Minimum 77 MELAB score
  - Minimum 6.5 IELTS score



- Minimum 58 PTE score
- Minimum 110 Duolingo English Test score

For more information about graduate admissions, please visit the Graduate Studies admission website. For more information on international admission, visit the Office of Global Education's admission website.

## Program Learning Outcomes

Graduates of this program will be able to:

1. Understand and apply fundamental economic concepts.
2. Formulate and test hypotheses.
3. Access and use appropriate information.
4. Demonstrate analytic and quantitative skills.

## Program Requirements

### Major Requirements

Code	Title	Credit Hours
<b>Major Requirements</b>		
ECON 62050	MICROECONOMIC THEORY I	3
ECON 62051	MACROECONOMIC THEORY I	3
ECON 62054	ECONOMETRICS I	3
ECON 62056	TIME SERIES ANALYSIS	3
<b>Concentrations</b>		
Choose from the following:		18
Economic Analysis		
Financial Economics		
Minimum Total Credit Hours:		30

### Economic Analysis Concentration Requirements

Code	Title	Credit Hours
<b>Concentration Requirements</b>		
ECON 52050	DATA ACQUISITION, PREPARATION AND VISUALIZATION	3
ECON 62055	ECONOMETRICS II	3
ECON 62072	ECONOMICS OF LABOR MARKETS <sup>1</sup>	3
or ECON 62180	REGIONAL ECONOMICS	
ECON 64004	QUANTITATIVE METHODS IN BUSINESS ADMINISTRATION I	3
Internship, Thesis or Electives, choose from the following:		6
ECON 62092	INTERNSHIP IN ECONOMICS <sup>2</sup>	
ECON 62199	THESIS I	
Approved Electives <sup>3</sup>		
Minimum Total Credit Hours:		18

- <sup>1</sup> Students may be allowed to substitute an equivalent course with department approval.
- <sup>2</sup> Students selecting the internship must also complete an additional Economics (ECON) elective for total 6 credit hours.
- <sup>3</sup> Students may select any graduate-level Economics (ECON) courses subject to these restrictions: (1) all choices must have the approval of the graduate coordinator; and (2) maximum 3 credit hours may be at the 50000 level.

## Financial Economics Concentration Requirements

Code	Title	Credit Hours
<b>Concentration Requirements</b>		
Finance (FIN) Electives		12
Concentration Electives or Internship, choose from the following:		6
ECON 62092	INTERNSHIP IN ECONOMICS	
Economics (ECON) Electives <sup>1</sup>		
Finance (FIN) Electives <sup>1</sup>		
Minimum Total Credit Hours:		18

- <sup>1</sup> Students may select any graduate-level Economics (ECON) or Finance (FIN) courses subject to these restrictions: (1) all choices must have the approval of the graduate coordinator; (2) maximum 6 credit hours at the 50000 level.

## Graduation Requirements

- Students entering the program will be expected to have completed undergraduate courses in intermediate microeconomic and macroeconomic theory, differential calculus and statistics. Any deficiencies must be made up before the start of the program. These background courses do not count toward the 30 credit hours required for the M.A.E. degree.
- Students may also select, with departmental approval, a limited number of courses outside the Department of Economics.

## Economics - Minor

### College of Business Administration

Department of Economics  
480 Business Administration Building  
Kent Campus  
330-672-2366  
economics@kent.edu  
www.kent.edu/business/economics

## Description

The Economics minor is the study of how people make decisions in response to incentives. The minor examines a range of topics, including individual decisions regarding risk, firm strategies regarding their competitors and the role of the government in the financial system and broader economy. Students study specific areas of public policy concern such as health care, environmental problems, economic development and international trade. Problem-solving and analytical skills are emphasized throughout the program.

### Fully Offered At:

- Kent Campus

## Admission Requirements

Admission to a minor is open to students declared in a bachelor's degree, the A.A.B. or A.A.S. degree or the A.T.S. degree (not Individualized Program major). Students declared only in the A.A. or A.S. degree or the A.T.S. degree in Individualized Program may not declare a minor. Students may not pursue a minor and a major in the same discipline.

To declare the Economics minor, students must have a minimum 2.000 overall Kent State University GPA. No Kent State University GPA is required if the student is a first-semester freshman or transfer student admitted in good standing.

## Minor Requirements

Code	Title	Credit Hours
<b>Minor Requirements</b>		
ECON 22060	PRINCIPLES OF MICROECONOMICS (KSS)	3
ECON 22061	PRINCIPLES OF MACROECONOMICS (KSS)	3
ECON 32040	INTERMEDIATE MICROECONOMIC THEORY AND APPLICATIONS	3
or ECON 32041	INTERMEDIATE MACROECONOMIC THEORY AND POLICY	
Economics (ECON) Upper-Division Electives (30000 or 40000 level) <sup>1</sup>		9
Minimum Total Credit Hours:		18

<sup>1</sup> Economics upper-division electives may include ECON 32040 or ECON 32041 if not previously taken to fulfill minor requirements and with advisor approval.

## Graduation Requirements

Minimum Minor GPA	Minimum Overall GPA
2.000	2.000

- It is highly recommended that students declaring the Economics minor complete at least one mathematics course at the MATH 11010 level or higher before registering for upper-division economics courses.
- Student may not pursue a minor and a major in the same discipline.
- Minimum 6 credit hours in the minor must be upper-division coursework (30000 and 40000 level).
- Minimum 6 credit hours in the minor must be outside of the course requirements for any major or other minor the student is pursuing.
- Minimum 50 percent of the total credit hours for the minor must be taken at Kent State (in residence).

## Department of Finance

**College of Business Administration**  
 Department of Finance  
 404 Business Administration Building  
 Kent Campus  
 330-672-2426  
 finance@kent.edu  
 www.kent.edu/business/finance

## Undergraduate Programs

- Finance - B.B.A.

## Minors

### Undergraduate

- Finance

## Graduate

- Doctoral Finance

## Department of Finance Faculty

- Baran, Lindsay C. (2011), Associate Professor, Ph.D., University of North Carolina, Charlotte, 2010
- Beier, Lois J. (1985), Associate Professor, J.D., University of Akron, 1980
- Billik, William M. (2009), Assistant Professor
- Deng, Saiying (2019), Associate Professor
- Dennis, Steven A. (2014), Professor & Department Chair, Ph.D., University of Kentucky, 1993
- Pelleg, David S. (2018), Lecturer
- Pu, Xiaoling X. (2008), Associate Professor, Ph.D., University of Massachusetts, Amherst, 2008
- Shynkevich, Andrei (2009), Associate Professor, Ph.D., Louisiana State University, 2009
- Via, Marc (2014), Assistant Professor, Ph.D., University of Alabama, 2014

## Finance (FIN)

### FIN 26051 BITCOIN AND BLOCKCHAIN TECHNOLOGY 3 Credit Hours

Digital currencies and distributed ledger technology will completely reshape the landscape of commerce and business. Course explores this from three different perspectives: the primary and secondary markets and emergence of digital tokens; capital formation in the digital economy; and financial technology transformation via distributed ledger blockchain.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

### FIN 26074 LEGAL ENVIRONMENT OF BUSINESS 3 Credit Hours

(Equivalent to BMRT 21000) Coverage of the nature, structure and significance of the legal and regulatory areas which confront business, with special emphasis on business ethics environmental and international issues.

**Prerequisite:** Sophomore standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

### FIN 26085 INTRODUCTION TO FINANCIAL MODELING 1 Credit Hour

Introduces students to financial modeling using both basic and advanced features in Microsoft Excel. Students will learn how to create and analyze databases for portfolios and other projects. Students will learn commands for statistical analysis and financial functions.

**Prerequisite:** CIS 24053; and minimum 2.500 overall GPA.

**Schedule Type:** Lecture

**Contact Hours:** 1 lecture

**Grade Mode:** Standard Letter

### FIN 26295 SPECIAL TOPICS IN FINANCE I 1-3 Credit Hours

(Repeatable for credit) Deals with special topics in finance; new subjects not covered in other existing courses.

**Prerequisite:** Special approval.

**Schedule Type:** Lecture

**Contact Hours:** 1-3 lecture

**Grade Mode:** Standard Letter

**FIN 36040 PERSONAL FINANCIAL PLANNING 3 Credit Hours**

Course examines basic personal financial planning and investment strategies with the goal of increasing personal financial literacy and future individual well-being. Course provides a foundation for understanding financial decisions and making informed choices. Course does not fulfill a requirement for the Finance major or minor. Students cannot earn credit toward graduation for both FIN 36040 and FIN 36063.

**Prerequisite:** Minimum 2.000 overall GPA; and junior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**FIN 36051 THE FINANCIAL SYSTEM 3 Credit Hours**

Analysis of financial markets and institutions emphasizing current issues, regulatory aspects, and management concerns. This is a fundamental course for business majors and minors.

**Prerequisite:** ACCT 23020 or ACTT 11000; and ECON 22060; and minimum 2.500 overall GPA.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**FIN 36053 BUSINESS FINANCE 3 Credit Hours**

Introductory finance course analyzing the basic financial decisions of corporations and the interface of the firm with capital markets. Students discuss stocks, bonds, the time value of money, risk versus return and the essentials of capital budgeting.

**Prerequisite:** ACCT 23020 or ACTT 11000; and ECON 22060 or HONR 21197; and ECON 22061; and minimum 2.000 overall GPA.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**FIN 36054 INTERMEDIATE CORPORATE FINANCE 3 Credit Hours**

Treatment of financial decision making processes in businesses. Overview of cost of capital, capital budgeting, capital structure, and working capital management.

**Prerequisite:** Minimum C grade in FIN 26085, FIN 36053, ENG 21011 (or HONR 10297), COMM 15000 and MATH 11010 (or MATH 10675 or MATH 10775); and minimum 2.500 overall GPA; and finance major or minor.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**FIN 36059 INTERMEDIATE INVESTMENTS 3 Credit Hours**

Discussion of factors determining the value of investment securities with attention to economic, regulatory, and global influences. Either this course or FIN 36063, but not both, can count as an elective in a College of Business Administration program.

**Prerequisite:** Minimum C grade in FIN 26085, FIN 36053, ENG 21011 (or HONR 10297), COMM 15000 and MATH 11010 (or MATH 10675 or MATH 10775); and minimum 2.500 overall GPA; and finance major or minor.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**FIN 36061 PRINCIPLES OF REAL ESTATE 3 Credit Hours**

Principles and practices of real estate, real estate laws, contractual instruments, valuation, financing and markets in commercial and residential real estate.

**Prerequisite:** FIN 36053 with a minimum C grade; and minimum overall 2.500 GPA; and finance major or minor.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**FIN 36063 INDIVIDUAL INVESTMENT STRATEGIES 3 Credit Hours**

Course examines more advanced strategies for personal investing in stocks, bonds, insurance, real estate and alternative investments. Course does not fulfill a requirement for the Finance major or minor. Students cannot earn credit toward graduation for both FIN 36040 and FIN 36063. Not open to students declared in Finance major or minor.

**Prerequisite:** Minimum 2.000 overall GPA; and junior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**FIN 36072 LAW OF COMMERCIAL TRANSACTIONS 3 Credit Hours**

Introduction to real and personal property, commercial paper, agency law, business organizations, bankruptcy, secured transactions and other related areas of business law.

**Prerequisite:** FIN 26074 or BMRT 21000; and minimum 2.500 overall GPA.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**FIN 36081 PRINCIPLES OF INSURANCE 3 Credit Hours**

Examination of insurance industry, its regulatory environment and insurance contracts. Life and health insurance as well as property and liability insurance are covered.

**Prerequisite:** FIN 36053 with a minimum C grade; and minimum 2.500 overall GPA; and finance major or minor.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**FIN 36085 ADVANCED FINANCIAL MODELING 3 Credit Hours**

Provides students experience with advanced Excel and VBA programming.

**Prerequisite:** Minimum C grade in FIN 26085, FIN 36053, ENG 21011 (or HONR 10297), COMM 15000; and MATH 11010 (or MATH 10675 or MATH 10775); minimum 2.500 overall GPA; and finance major or minor.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**FIN 36280 STUDENT MANAGED INVESTMENT FUND JUNIOR OFFICER 1 Credit Hour**

(Repeatable for credit) This course is for Junior Officers in the Student Managed Investment Fund (SMIF). It examines the issues involved in the management and investment strategies of a portfolio of financial assets. Junior Officers research prospective investments, generate reports, and make decisions to invest or liquidate. Any recommendation to buy, sell, or retain a position in a security is presented to all student team members and to the instructor. Oral presentations are required. Requires special permission from the department chair. Students in the Finance major or minor may repeat this course up to a maximum of 3 credits. Course credits count toward general electives, not major electives.

**Prerequisite:** Finance major or minor; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 1 lecture

**Grade Mode:** Standard Letter

**FIN 46054 FINANCIAL RISK MANAGEMENT 3 Credit Hours**

Understanding techniques and financial tools used in managing financial risk. Analysis of contracts (options, forwards, futures) undertaken in the context of financial regulation and ethical practices within the financial marketplace.

**Prerequisite:** FIN 36053 with a minimum C grade; and overall 2.500 overall GPA; and finance major or minor.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**FIN 46055 ADVANCED DERIVATIVE SECURITIES 3 Credit Hours**

(Slashed with FIN 56055) Comprehensive analysis of derivatives securities markets and their role in the financial system. Valuation methods, advanced hedging, arbitration techniques and the regulatory environment.

**Prerequisite:** FIN 36059; and minimum 2.500 overall GPA; and Finance major or minor.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**FIN 46056 ADVANCED FIXED INCOME MANAGEMENT 3 Credit Hours**

(Slashed with FIN 56056) Course investigates techniques and financial tools used in fixed income markets. Students analyze interest rate and bond mathematics; review the structure of debt markets; and examine the mechanics, securities, derivatives and structured products tied to the credit and debt markets.

**Prerequisite:** FIN 36051 and FIN 36059; and minimum 2.500 overall GPA; and Finance major or minor.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**FIN 46059 APPLIED FINANCIAL MANAGEMENT STRATEGIES (ELR) (WIC) 3 Credit Hours**

(Slashed with FIN 56059) Emphasis on financial policies and strategic financial decision-making with respect to both short-term and long-term financial management problems.

**Prerequisite:** FIN 36054; and MATH 10041 or MGMT 24056; and minimum 2.500 overall GPA; and Finance major.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Experiential Learning Requirement, Writing Intensive Course

**FIN 46061 REAL ESTATE FINANCE 3 Credit Hours**

(Slashed with FIN 56061) Course covers basic real estate law, project evaluation, financing strategies, investment decision making and real estate capital markets.

**Prerequisite:** FIN 36051; and FIN 36054 or FIN 36059; and 2.500 overall GPA; and Finance major or minor.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**FIN 46064 INTERNATIONAL BUSINESS FINANCE 3 Credit Hours**

(Slashed with FIN 56064) Management of the finance function of an international company, including foreign exchange exposure management, foreign investment, short term and long term capital management and international accounting and taxation.

**Prerequisite:** FIN 36053 with a minimum C grade; and minimum 2.500 overall GPA; and Finance major or minor or International Business minor.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**FIN 46067 ADVANCED PORTFOLIO ANALYSIS 3 Credit Hours**

(Slashed with FIN 56067) Examines the principles, methods, and techniques of portfolio analysis with emphasis on determination of portfolio risks and returns. The political, ethical, and global forces affecting asset risks and returns are evaluated.

**Prerequisite:** FIN 36051 and FIN 36059; and minimum 2.500 overall GPA; and Finance major or minor.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**FIN 46068 COMMERCIAL BANK MANAGEMENT 3 Credit Hours**

(Slashed with FIN 56068) Financial management techniques applied to commercial banks. Focus on management of liquidity, investment and loan portfolios and capital structure.

**Prerequisite:** FIN 36051; and FIN 36054 or FIN 36059; and minimum 2.500 overall GPA; and Finance major or minor.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**FIN 46070 ADVANCED COMMERCIAL BANK MANAGEMENT 3 Credit Hours**

(Slashed with FIN 56070) Course contains a mixture of lectures, guest speakers and case discussions regarding the banking industry. Advanced discussions of liquidity risk, interest rate risk, credit risk and solvency risk and the management of these risks. In-depth computer models for measuring and managing risks are discussed.

**Prerequisite:** FIN 46068; and minimum 2.500 overall GPA; and Finance major or minor.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**FIN 46087 INTERNATIONAL FINANCE EXPERIENCE 3 Credit Hours**  
(Slashed with FIN 56087) Firsthand exposure to international businesses and organizations generally relating to business and specifically relating to finance. Includes pre-trip orientation sessions, visits to international businesses and organizations, and opportunities for cultural activities.

**Prerequisite:** ECON 22060; and minimum 2.500 overall GPA; and sophomore standing in the college of business administration; and special approval.

**Schedule Type:** Field Experience

**Contact Hours:** 9 other

**Grade Mode:** Standard Letter

**FIN 46096 INDIVIDUAL INVESTIGATION IN FINANCE 1-3 Credit Hours**

(Repeatable for credit) Opportunity for research in problem areas of interest in field of finance. Agreement of faculty member in the department must be secured prior to registering for course.

**Prerequisite:** Minimum 2.500 overall GPA; and finance major; and special approval.

**Schedule Type:** Individual Investigation

**Contact Hours:** 1-3 other

**Grade Mode:** Standard Letter

**FIN 46192 INTERNSHIP IN FINANCE (ELR) 3 Credit Hours**

(Repeatable for credit) An internship for finance majors interested in obtaining career-relevant experience. Students and employers must satisfy criteria established by the department. Students are responsible for securing employment.

**Prerequisite:** FIN 36051; and FIN 36054 or FIN 36059; and a minimum 2.500 overall GPA; and finance major; and special approval.

**Schedule Type:** Practical Experience

**Contact Hours:** 9 other

**Grade Mode:** Standard Letter

**Attributes:** Experiential Learning Requirement

**FIN 46280 STUDENT MANAGED INVESTMENT FUND SENIOR OFFICE 3 Credit Hours**

(Repeatable for credit) This course is for Senior Officers in the Student Managed Investment Fund (SMIF). It examines the issues involved in the management and investment strategies of a portfolio of financial assets. It focuses on asset allocation, portfolio monitoring and evaluation, portfolio rebalancing, and investment analysis under the supervision of the instructor. Senior Officers are responsible for leading meetings, preparing and presenting the annual report, reviewing performance, making trades, monitoring risk, providing the economic report, and ensuring a smooth flow of operations. Oral presentations are required. Requires special permission from the department chair. Students in the Finance major or minor may repeat this course for a maximum of 6 credits. Course credits count toward general electives when taken for the first time. Course credits can count toward general electives or major electives if taken for the second time.

**Prerequisite:** Finance major or minor; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**FIN 46295 SPECIAL TOPICS IN FINANCE II 1-3 Credit Hours**

(Repeatable for credit) Deal with special topics in finance. New subjects not covered in other existing courses.

**Prerequisite:** FIN 36053; and minimum 2.500 overall GPA; and finance major; and senior standing.

**Schedule Type:** Lecture

**Contact Hours:** 1-3 lecture

**Grade Mode:** Standard Letter

**FIN 56055 ADVANCED DERIVATIVE SECURITIES 3 Credit Hours**

(Slashed with FIN 46055) Comprehensive analysis of options and futures markets and their role in the financial system. Students explore valuation methods, advanced hedging, arbitration techniques and the regulatory environment.

**Prerequisite:** FIN 66060; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**FIN 56056 ADVANCED FIXED INCOME MANAGEMENT 3 Credit Hours**

(Slashed with FIN 46056) Course investigates techniques and financial tools used in fixed income markets. Students analyze interest rate and bond mathematics; review the structure of debt markets; and examine the mechanics, securities, derivatives and structured products tied to the credit and debt markets.

**Prerequisite:** FIN 66060; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**FIN 56059 APPLIED FINANCIAL MANAGEMENT STRATEGIES 3 Credit Hours**

(Slashed with FIN 46059) Emphasis on financial policies and strategic financial decision-making with respect to both short-term and long-term financial management problems.

**Prerequisite:** FIN 66060; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**FIN 56061 REAL ESTATE FINANCE 3 Credit Hours**

(Slashed with FIN 46061) Course covers basic real estate law, project evaluation, financing strategies, investment decision making and real estate capital markets.

**Prerequisite:** FIN 66060; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**FIN 56064 INTERNATIONAL BUSINESS FINANCE 3 Credit Hours**

(Slashed with FIN 46064) Management of the finance function of an international company, including foreign exchange exposure management, foreign investment, short term and long term capital management and international accounting and taxation.

**Prerequisite:** FIN 66060; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**FIN 56067 ADVANCED PORTFOLIO ANALYSIS 3 Credit Hours**

(Slashed with FIN 46067) Examines the principles, methods and techniques of portfolio analysis with emphasis on determination of portfolio risks and returns. Students evaluate political, ethical, and global forces affecting asset risks and returns.

**Prerequisite:** FIN 66060; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter



**FIN 56068 COMMERCIAL BANK MANAGEMENT 3 Credit Hours**  
(Slashed with FIN 56068) Financial management techniques applied to commercial banks. Focus on management of liquidity, investment and loan portfolios and capital structure.

**Prerequisite:** FIN 66060; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**FIN 56070 ADVANCED COMMERCIAL BANK MANAGEMENT 3 Credit Hours**

(Slashed with FIN 46070) Course contains a mixture of lectures, guest speakers and case discussions regarding the banking industry. Advanced discussions of liquidity risk, interest rate risk, credit risk and solvency risk and the management of these risks. In-depth computer models for measuring and managing risks are discussed.

**Prerequisite:** FIN 66060; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**FIN 56087 INTERNATIONAL FINANCE EXPERIENCE 3 Credit Hours**

(Slashed with FIN 46087) Firsthand exposure to international businesses and organizations generally relating to business and specifically relating to finance. Includes pre-trip orientation sessions, visits to international businesses and organizations, and opportunities for cultural activities.

**Prerequisite:** Graduate standing in the college of business administration; and special approval.

**Schedule Type:** Field Experience

**Contact Hours:** 9 other

**Grade Mode:** Standard Letter

**FIN 56280 STUDENT-MANAGED INVESTMENT FUND DIRECTOR 3 Credit Hours**

Course examines the issues involved in the management and investment strategies of a live portfolio of financial assets. Students study asset allocation, portfolio monitoring and evaluation, portfolio rebalancing and investment analysis under the supervision of the instructor. Written and oral presentations are required.

**Prerequisite:** FIN 66060; and graduate standing; and special approval from the department chair.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**FIN 66050 LAW AND ETHICS 2 Credit Hours**

This course is an overview of laws and regulations with related ethical impacts affecting business management.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**FIN 66060 MANAGERIAL FINANCE 2 Credit Hours**

Study of managerial decisions of the firm from a financial point of view. Topics include valuation, project analysis, and sources and uses of funds.

**Prerequisite:** ACCT 63037, ACCT 63038 and ECON 62021; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**FIN 66061 FINANCIAL MANAGEMENT I 3 Credit Hours**

Study of financial decision-making processes within a firm. Emphasis on applications and strategic planning in investment, financing, dividend and working capital decisions.

**Prerequisite:** ACCT 63037 and ACCT 63038; and ECON 62021; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**FIN 86061 THEORIES OF FINANCIAL DECISION-MAKING 3 Credit Hours**

A study of optimal investment decisions under conditions of certainty and uncertainty.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**FIN 86062 RESEARCH METHODS IN CORPORATE FINANCE 3 Credit Hours**

A study of the theory and empirical evidence from a global perspective regarding corporate financial management.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**FIN 86064 RESEARCH METHODS IN DERIVATIVES 3 Credit Hours**

A study of the theory and empirical evidence from a global perspective regarding derivative securities.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**FIN 86066 RESEARCH METHODS INVESTMENTS 3 Credit Hours**

A study of the theory and empirical evidence from a global perspective regarding investment analysis, valuation and portfolio selection.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**FIN 86098 RESEARCH TOPICS IN FINANCE 3 Credit Hours**

A study of the theory and empirical evidence from a global perspective regarding a topic of the faculty member's expertise.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Research

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

## Doctoral Finance - Minor

**College of Business Administration**

Department of Finance

404 Business Administration Building

Kent Campus

330-672-2426

finance@kent.edu

www.kent.edu/business/finance

## Minor Requirements

Code	Title	Credit Hours
<b>Minor Requirements</b>		
Choose from the following:		12
FIN 86061	THEORIES OF FINANCIAL DECISION-MAKING	
FIN 86062	RESEARCH METHODS IN CORPORATE FINANCE	
FIN 86064	RESEARCH METHODS IN DERIVATIVES	
FIN 86066	RESEARCH METHODS INVESTMENTS	
FIN 86098	RESEARCH TOPICS IN FINANCE	
Minimum Total Credit Hours:		12

## Finance - B.B.A.

### College of Business Administration

Department of Finance  
404 Business Administration Building  
Kent Campus  
330-672-2426  
finance@kent.edu  
www.kent.edu/business/finance

## Description

The Bachelor of Business Administration degree in Finance provides students with an academic background appropriate for entry into a financial career, including financial management, investments, banking/financial institutions, risk/insurance and related areas. The courses are designed to provide students with an understanding of the relationship between business finance and the economic system in the context of managerial analysis and decision making.

Finance students may apply early to the M.B.A. degree and double count 9 credit hours of graduate courses toward both degree programs. See the Combined Bachelor's/Master's Degree Program policy in the University Catalog for more information.

### Fully Offered At:

- Kent Campus

## Accreditation

AACSB, International - The Association to Advance Collegiate Schools of Business

## Admission Requirements

The university affirmatively strives to provide educational opportunities and access to students with varied backgrounds, those with special talents and adult students who graduated from high school three or more years ago.

**Freshman Students on the Kent Campus:** The freshman admission policy on the Kent Campus is selective. Admission decisions are based upon the following: cumulative grade point average, ACT and/or SAT scores, strength of high school college preparatory curriculum and grade trends. The Admissions Office at the Kent Campus may defer the admission of students who do not meet admissions criteria but who demonstrate areas of promise for successful college study. Deferred

applicants may begin their college coursework at one of seven regional campuses of Kent State University. For more information on admissions, including additional requirements for some academic programs, visit the admissions website for new freshmen.

**Freshman Students on the Regional Campuses:** Kent State campuses at Ashtabula, East Liverpool, Geauga, Salem, Stark, Trumbull and Tuscarawas, as well as the Regional Academic Center in Twinsburg, have open enrollment admission for students who hold a high school diploma, GED or equivalent.

**English Language Proficiency Requirements for International Students:** All international students must provide proof of English language proficiency (unless they meet specific exceptions) by earning a minimum 525 TOEFL score (71 on the Internet-based version), minimum 75 MELAB score, minimum 6.0 IELTS score or minimum 48 PTE score, or by completing the ESL level 112 Intensive Program. For more information on international admission, visit the Office of Global Education's admission website.

**Transfer, Transitioning and Former Students:** For more information about admission criteria for transfer, transitioning and former students, please visit the admissions website.

**Transfer Student:** A minimum 2.500 overall GPA is required for admission into the major. Students who have previously attended Kent State must also have a minimum 2.50 GPA in their former Kent State coursework, and a minimum C grade in COMM 15000, ENG 21011, FIN 36053 and MATH 11010.

## Program Learning Outcomes

Graduate of this program will be able to:

1. Demonstrate a broad fundamental knowledge of the theory and practice of investments, international business finance, business and corporate finance and financial markets and institutions.
2. Demonstrate the critical thinking skills needed to apply financial theory to specific business situations.
3. Demonstrate the skills needed to work effectively as a finance professional in a group or task force environment.
4. Demonstrate the computer skills needed to successfully employ commonly used software packages (specifically, spreadsheet, word processing and presentation software) in the performance of their duties as finance professionals.

Graduates of all Bachelor of Business Administration programs will be able to:

1. Recall strategic frameworks that are used to make business decisions.
2. Perform basic calculations using quantitative tools that are used to support business decisions.
3. Articulate and deliberate their ideas in writing.
4. Articulate and deliberate their ideas orally.
5. Identify ethical dilemmas and stakeholders.
6. Recommend alternatives and consequences and choose a reasoned conclusion from the alternatives given.
7. Identify global factors in making a business decision.
8. Analyze global factors in making a business decision.

## University Requirements

All students in a bachelor's degree program at Kent State University must complete the following university requirements for graduation.

**NOTE:** University requirements may be fulfilled in this program by specific course requirements. Please see Program Requirements for details.

Destination Kent State: First Year Experience	1
Course is not required for students with 25 transfer credits, excluding College Credit Plus, or age 21+ at time of admission.	
Diversity Domestic/Global (DIVD/DIVG)	2 courses
Students must successfully complete one domestic and one global course, of which one must be from the Kent Core.	
Experiential Learning Requirement (ELR)	varies
Students must successfully complete one course or approved experience.	
Kent Core (see table below)	36-37
Writing-Intensive Course (WIC)	1 course
Students must earn a minimum C grade in the course.	
Upper-Division Requirement	39 (or 42)
Students must successfully complete 39 upper-division (numbered 30000 to 49999) credit hours to graduate. Students in a B.A. and/or B.S. degree in the College of Arts and Sciences must complete 42 upper-division credit hours.	
Total Credit Hour Requirement	120
Some bachelor's degrees require students to complete more than 120 credit hours.	

## Kent Core Requirements

Kent Core Composition (KCOMP)	6
Kent Core Mathematics and Critical Reasoning (KMCR)	3
Kent Core Humanities and Fine Arts (KHUM/KFA) (min one course each)	9
Kent Core Social Sciences (KSS) (must be from two disciplines)	6
Kent Core Basic Sciences (KBS/KLAB) (must include one laboratory)	6-7
Kent Core Additional (KADL)	6
<b>Total Credit Hours:</b>	<b>36-37</b>

## Program Requirements

### Major Requirements

Code	Title	Credit Hours
<b>Major Requirements (courses count in major GPA)</b>		
FIN 26085	INTRODUCTION TO FINANCIAL MODELING (min C grade)	1
FIN 36051	THE FINANCIAL SYSTEM	3
FIN 36054	INTERMEDIATE CORPORATE FINANCE	3
FIN 36059	INTERMEDIATE INVESTMENTS	3
FIN 36085	ADVANCED FINANCIAL MODELING	3
FIN 46059	APPLIED FINANCIAL MANAGEMENT STRATEGIES (ELR) (WIC) (min C grade)	3
FIN 46064	INTERNATIONAL BUSINESS FINANCE	3
Accounting or Finance Electives, choose from the following (no more than 6 hours can be counted from ACCT courses): <sup>1</sup>		9
ACCT 33001	INTERMEDIATE FINANCIAL ACCOUNTING I	
ACCT 33010	COST ACCOUNTING	

ACCT 33012	INTERMEDIATE FINANCIAL ACCOUNTING II	
FIN 36061	PRINCIPLES OF REAL ESTATE	
FIN 36072	LAW OF COMMERCIAL TRANSACTIONS	
FIN 36081	PRINCIPLES OF INSURANCE	
FIN 46054	FINANCIAL RISK MANAGEMENT	
FIN 46055	ADVANCED DERIVATIVE SECURITIES	
FIN 46056	ADVANCED FIXED INCOME MANAGEMENT	
FIN 46061	REAL ESTATE FINANCE	
FIN 46067	ADVANCED PORTFOLIO ANALYSIS	
FIN 46068	COMMERCIAL BANK MANAGEMENT	
FIN 46070	ADVANCED COMMERCIAL BANK MANAGEMENT	
FIN 46087	INTERNATIONAL FINANCE EXPERIENCE	
FIN 46096	INDIVIDUAL INVESTIGATION IN FINANCE	
FIN 46192	INTERNSHIP IN FINANCE (ELR)	
<b>Additional Requirements (courses do not count in major GPA)</b>		
ACCT 23020	INTRODUCTION TO FINANCIAL ACCOUNTING	3
ACCT 23021	INTRODUCTION TO MANAGERIAL ACCOUNTING	3
BUS 10123	EXPLORING BUSINESS <sup>2</sup>	3
BUS 30062	ADVANCED PROFESSIONAL DEVELOPMENT	3
CIS 24053	INTRODUCTION TO COMPUTER APPLICATIONS	3
COMM 15000	INTRODUCTION TO HUMAN COMMUNICATION (KADL) (min C grade)	3
ECON 22060	PRINCIPLES OF MICROECONOMICS (KSS)	3
ECON 22061	PRINCIPLES OF MACROECONOMICS (KSS)	3
FIN 26074	LEGAL ENVIRONMENT OF BUSINESS	3
FIN 36053	BUSINESS FINANCE (min C grade)	3
MATH 11010	ALGEBRA FOR CALCULUS (KMCR) (min C grade)	3
MATH 11012	INTUITIVE CALCULUS (KMCR)	3-5
or MATH 12002	ANALYTIC GEOMETRY AND CALCULUS I (KMCR)	
MGMT 24056	BUSINESS ANALYTICS I	3
MGMT 24163	PRINCIPLES OF MANAGEMENT	3
MGMT 34060	OPERATIONS MANAGEMENT	3
MGMT 44285	INTEGRATED BUSINESS POLICY AND STRATEGY	3
MKTG 25010	PRINCIPLES OF MARKETING	3
UC 10097	DESTINATION KENT STATE: FIRST YEAR EXPERIENCE	1
UC 10162	INTRODUCTION TO PROFESSIONAL DEVELOPMENT	1
Kent Core Composition (min C grade) <sup>4</sup>		6
Kent Core Humanities and Fine Arts (minimum one course from each)		9
Kent Core Social Sciences		3
Kent Core Basic Sciences (must include one laboratory)		6-7
General Electives (total credit hours depends on earning 120 credits hour, including 39 upper-division credit hours) <sup>5</sup>		15
Minimum Total Credit Hours:		120

<sup>1</sup> Please meet with the Chair of the Department of Finance or academic advisor for a listing of courses that will provide the best possible preparation for the following career tracks: corporate finance, banking, investments (CFA or CFP) or risk management and insurance. Students may not receive major elective credit for more than six credit hours from the following four courses: FIN 46087, FIN 46096, FIN 46192 and FIN 46295. Any excess credit hours can be used for general electives, if needed.

- <sup>2</sup> A student changing to the College of Business Administration or transferring may be waived out of BUS 10123 if:
- 30 or more credit hours have been earned and any two classes (from ACCT 23020, ACCT 23021, FIN 26074, MGMT 24163, MKTG 25010 or CIS 24053) have successfully been completed.
  - 60 or more credit hours have been earned and the student has successfully completed one course from (ACCT 23020, ACCT 23021, FIN 26074, MGMT 24163, MKTG 25010 or CIS 24053)
  - At the discretion of the Dean's Office, the student has sufficient breadth and depth of knowledge in a business field (as demonstrated by a CLEP exam or Credit by Exam) but does not meet the requirements listed above.
- <sup>3</sup> Students who have taken MATH 10041 for another program may use it as a substitute for MGMT 24056.
- <sup>4</sup> Minimum C grade in ENG 21011 or HONR 20197.
- <sup>5</sup> Students may take or use any course at any level as long as the minimum 39-credit hours requirement for upper-division courses is satisfied for graduation with a B.B.A. Exceptions: Maximum 4 credit hours of Physical Activity, Wellness and Sport (PWS) courses. A minor (business or non-business) is encouraged. Any other exceptions must be approved by the assistant dean. FIN 36280 is repeatable for a maximum of 3 credits for students in the major, the credits may only count towards general electives. FIN 46280 is repeatable for a maximum of 6 credit hours for students in the major; credits will automatically count towards general electives when taken both times. Students who want to use the credits earned the second time taken towards the Accounting or Finance elective major requirement will need to request an override from an academic advisor to have the credits applied to the major requirement.

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## Progression Requirements

- Minimum 2.500 overall GPA
- Minimum C grade in COMM 15000, ENG 21011, MATH 11010 (or placement out of MATH 11010), FIN 26085 and FIN 36053

## Graduation Requirements

Minimum Major GPA	Minimum Overall GPA
2.500	2.500

- Students must complete at least 50 percent of business credit hours (required for the business degree) in-residence on a Kent State University campus.
- Students must complete two measures of outcomes assessment as specified by the College of Business Administration for complete satisfaction of the B.B.A.

## Roadmap

This roadmap is a recommended semester-by-semester plan of study for this major. However, courses designated as critical (!) must be completed in the semester listed to ensure a timely graduation.

Semester One		Credits
BUS 10123	EXPLORING BUSINESS	3
COMM 15000	INTRODUCTION TO HUMAN COMMUNICATION (KADL)	3
MATH 11010	ALGEBRA FOR CALCULUS (KMCR)	3
UC 10097	DESTINATION KENT STATE: FIRST YEAR EXPERIENCE	1
Kent Core Requirement		3
Kent Core Requirement		3
Credit Hours		16
Semester Two		
CIS 24053	INTRODUCTION TO COMPUTER APPLICATIONS	3
ECON 22060	PRINCIPLES OF MICROECONOMICS (KSS)	3
MATH 11012	INTUITIVE CALCULUS (KMCR)	3-5
or	or ANALYTIC GEOMETRY AND CALCULUS I (KMCR)	
MATH 12002		
UC 10162	INTRODUCTION TO PROFESSIONAL DEVELOPMENT	1
Kent Core Requirement		3
Kent Core Requirement		3
Credit Hours		16
Semester Three		
! ACCT 23020	INTRODUCTION TO FINANCIAL ACCOUNTING	3
! ECON 22061	PRINCIPLES OF MACROECONOMICS (KSS)	3
FIN 26074	LEGAL ENVIRONMENT OF BUSINESS	3
MGMT 24163	PRINCIPLES OF MANAGEMENT	3
Kent Core Requirement		3
Credit Hours		15
Semester Four		
ACCT 23021	INTRODUCTION TO MANAGERIAL ACCOUNTING	3
BUS 30062	ADVANCED PROFESSIONAL DEVELOPMENT	3
FIN 26085	INTRODUCTION TO FINANCIAL MODELING	1
FIN 36051	THE FINANCIAL SYSTEM	3
MGMT 24056	BUSINESS ANALYTICS I	3
MKTG 25010	PRINCIPLES OF MARKETING	3
Credit Hours		16
Semester Five		
Required for progression in the major: Minimum 2.500 overall GPA, minimum C grade in COMM 15000, ENG 21011, MATH 11010, FIN 26085 and FIN 36053		
! FIN 36053	BUSINESS FINANCE	3
MGMT 34060	OPERATIONS MANAGEMENT	3
Kent Core Requirement		3
Kent Core Requirement		3
General Electives		3
Credit Hours		15
Semester Six		
Required: minimum overall 2.500 GPA		
! FIN 36054	INTERMEDIATE CORPORATE FINANCE	3
FIN 36059	INTERMEDIATE INVESTMENTS	3
FIN 36085	ADVANCED FINANCIAL MODELING	3

General Electives		6
Credit Hours		15
Semester Seven		
Required: minimum overall 2.500 GPA		
FIN 46064	INTERNATIONAL BUSINESS FINANCE	3
Accounting or Finance Electives		3
Kent Core Requirement		3
General Electives		6
Credit Hours		15
Semester Eight		
Required: minimum overall 2.500 GPA. Note: completion of The Assurance of Learning Assessment given in FIN 46059 and MGMT 44285		
FIN 46059	APPLIED FINANCIAL MANAGEMENT STRATEGIES (ELR) (WIC)	3
MGMT 44285	INTEGRATED BUSINESS POLICY AND STRATEGY	3
Accounting or Finance Electives		6
Credit Hours		12
Minimum Total Credit Hours:		120

## Finance - Minor

### College of Business Administration

Department of Finance

404 Business Administration Building

Kent Campus

330-672-2426

finance@kent.edu

www.kent.edu/business/finance

### Description

The Finance minor allows students to gain some familiarity with financial management, as well as with the financial system of institutions and markets in which firms must operate. Some knowledge of finance is necessary to understand and work in most businesses and organizations. Profits and value creation are the "bottom lines" to which companies direct their efforts. Some acquaintance with investment techniques may help students in managing their personal finances.

The Finance minor is particularly useful for business students in other majors who take the requisite courses, and for other students who desire to acquire some understanding of finance without having to take all the core business school requisites. Both groups are exposed to important fundamentals, yet they also will have the flexibility to consider several areas of finance.

### Fully Offered At:

- Kent Campus

## Admission Requirements

Admission to a minor is open to students declared in a bachelor's degree, the A.A.B. or A.A.S. degree or the A.T.S. degree (not Individualized Program major). Students declared only in the A.A. or A.S. degree or the A.T.S. degree in Individualized Program may not declare a minor. Students may not pursue a minor and a major in the same discipline.

To declare the Finance minor, students must have a minimum 2.500 overall Kent State University GPA. No Kent State University GPA is



required if the student is a first-semester freshman or transfer student admitted in good standing.

## Minor Requirements

Code	Title	Credit Hours
<b>Minor Requirements</b>		
ACCT 23020	INTRODUCTION TO FINANCIAL ACCOUNTING	3
ECON 22060	PRINCIPLES OF MICROECONOMICS (KSS)	3
ECON 22061	PRINCIPLES OF MACROECONOMICS (KSS)	3
FIN 26085	INTRODUCTION TO FINANCIAL MODELING (min C grade)	1
FIN 36053	BUSINESS FINANCE (min C grade)	3
FIN 36054	INTERMEDIATE CORPORATE FINANCE	3
or FIN 36059	INTERMEDIATE INVESTMENTS	
Minor Electives, choose from the following:		9
FIN 36051	THE FINANCIAL SYSTEM	
FIN 36054	INTERMEDIATE CORPORATE FINANCE	
FIN 36059	INTERMEDIATE INVESTMENTS	
FIN 36061	PRINCIPLES OF REAL ESTATE	
FIN 36072	LAW OF COMMERCIAL TRANSACTIONS	
FIN 36081	PRINCIPLES OF INSURANCE	
FIN 36085	ADVANCED FINANCIAL MODELING	
FIN 46054	FINANCIAL RISK MANAGEMENT	
FIN 46055	ADVANCED DERIVATIVE SECURITIES	
FIN 46056	ADVANCED FIXED INCOME MANAGEMENT	
FIN 46061	REAL ESTATE FINANCE	
FIN 46064	INTERNATIONAL BUSINESS FINANCE	
FIN 46067	ADVANCED PORTFOLIO ANALYSIS	
FIN 46068	COMMERCIAL BANK MANAGEMENT	
FIN 46070	ADVANCED COMMERCIAL BANK MANAGEMENT	
FIN 46087	INTERNATIONAL FINANCE EXPERIENCE	
FIN 46192	INTERNSHIP IN FINANCE (ELR)	
Minimum Total Credit Hours:		25

## Progression Requirements

- Minimum 2.500 overall GPA
- Minimum C grade in FIN 36053.

## Graduation Requirements

Minimum Minor GPA	Minimum Overall GPA
2.500	2.000

- A minimum C grade may be required in some courses.
- Minimum 6 credit hours in the minor must be upper-division coursework (30000 and 40000 level).
- Minimum 6 credit hours in the minor must be outside of the course requirements for any major or other minor the student is pursuing.
- Minimum 50 percent of the total credit hours for the minor must be taken at Kent State (in residence).

## Department of Management and Information Systems

### College of Business Administration

Department of Management and Information Systems

A432 Business Administration Building

Kent Campus

330-672-1140

mis@kent.edu

www.kent.edu/business/mis

## Undergraduate Programs

- Business Management - B.B.A.
- Computer Information Systems - B.B.A.
- General Business - B.B.A.
- Human Resource Management - B.B.A.

## Minors

### Undergraduate

- Business
- Computer Information Systems
- Healthcare Systems Management for Business Majors
- Healthcare Systems Management for Non-Business Majors
- Human Resource Management
- International Business for Business Majors
- International Business for Non-Business Majors
- Leadership
- Management for Business Majors
- Management for Non-Business Majors
- Military and Leadership Studies

### Graduate

- Doctoral Applied Statistics
- Doctoral Information Systems
- Doctoral International Business
- Doctoral Management Systems

## Graduate Certificate

- Business Analytics

## Graduate Programs

- Business Administration - M.B.A.
- Business Administration - Executive M.B.A. - M.B.A.
- Business Analytics - M.S.

## Department of Management Information Systems Faculty

- Akpan, Ikpe A. (2012), Associate Professor, Ph.D., Lancaster University, 2006
- Arian, Asli M. (2014), Assistant Professor, Ph.D., The Ohio State University, 2004
- Arian, Ilgaz (2014), Assistant Professor

- Berardi, Victor L. (1993), Associate Professor, Ph.D., Kent State University, 1998
- Blundell, Gregory E. (2001), Professor, Ph.D., Kent State University, 2015
- Brandyberry, Alan A. (2000), Associate Professor, D.B.A., Southern Illinois University, Carbondale, 1995
- Datta, Pratim (2007), Associate Professor, Ph.D., Louisiana State University, 2003
- Derubertis, Diane E. (2008), Lecturer, M.Ed., Kent State University, 1983
- Dragan, Natalia (2003), Assistant Professor, Ph.D., Kent State University, 2010
- Dubois, Cathy L. (1992), Associate Professor & Associate Dean, Ph.D., University of Minnesota, Twin Cities, 1991
- Duchon, Michael S. (2000), Assistant Professor, Ed.D., Nova Southeastern University, 2012
- Gomez, Claudia (2013), Associate Professor, Ph.D., New Mexico State University, 2012
- Hodeghatta, Umesh (2019), Associate Professor
- Hogue, Mary B. (2001), Professor, Ph.D., University of Akron, 2000
- Knapp, Deborah K. (1992), Associate Professor, Ph.D., Kent State University, 1994
- Kwak, Dong-Heon (2014), Assistant Professor, Ph.D., University of Wisconsin, Milwaukee, 2014
- Landingham, Velvet L. (2004), Associate Professor, Ph.D., Case Western Reserve University, 2004
- Levashina, Julia (2008), Associate Professor, Ph.D., Purdue University, 2005
- Offodile, Onyebuchi F. (1988), Professor & Department Chair, Ph.D., Texas Tech University, 1984
- Patuwo, Eddy B. (1988), Professor, Ph.D., Virginia Polytechnic Institute and State University, 1989
- Polites, Greta L. (2012), Associate Professor
- Porr, Dean A. (2004), Associate Professor, Ph.D., Regent University, 2004
- Razavi, Rouzbeh (2017), Assistant Professor, Ph.D., University of Essex, 2008
- Riczo, Steve (2014), Lecturer, M.H.A., Xavier University, 1982
- Shanker, Murali S. (1990), Professor
- Steinberg, Geoffrey (1991), Associate Professor, Ph.D., Temple University, 1991
- Vaneet, Vaneet (2019), Assistant Professor, Ph.D., University of Jammu, 2018
- Whitmore, Mark D. (2011), Assistant Professor, Ph.D., The Ohio State University, 1985
- Wu, Chaojiang (2019), Assistant Professor, Ph.D., University of Cincinnati, 2013

## Computer Information Systems (CIS)

### CIS 24053 INTRODUCTION TO COMPUTER APPLICATIONS 3 Credit Hours

(Equivalent to IT 11000) Develop competency in the operation of contemporary software and hardware applications. To develop an appreciation for the contribution of computers, software and the Internet to society.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** TAG Business

### CIS 24065 WEB PROGRAMMING 3 Credit Hours

Principles of visual design as applied to Web site interface development. The course exposes students to the basics of programming and relational database and how to develop a Web-based database driven interactive information system.

**Prerequisite:** CIS 24053.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture, 2 lab

**Grade Mode:** Standard Letter

### CIS 24093 VARIABLE TITLE WORKSHOP IN MANAGEMENT AND INFORMATION SYSTEMS 1-6 Credit Hours

(Repeatable for credit) Special workshop in management and information systems. Credits depend on scope of project.

**Prerequisite:** Special approval.

**Schedule Type:** Workshop

**Contact Hours:** 1-6 other

**Grade Mode:** Satisfactory/Unsatisfactory

### CIS 24165 CLOUD SYSTEMS COMPUTING 3 Credit Hours

This course explores the history, current state, and projected future of cloud approach to providing computing resources. Almost all new startups today use "the cloud" because it allows fast time to market, flexibility, and the ability to "test" new ideas and product offerings very quickly. Kent State even uses this approach for things like student email and Blackboard. Most existing companies realize the "cloud" is in their future; the goal of the course is to expose students to the knowledge they need to be able to help their future employers with cloud migration.

**Prerequisite:** Minimum C+ grade in CIS 24053.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

### CIS 24167 CLOUD INFRASTRUCTURE AND APPLICATIONS 3 Credit Hours

Information systems is critical to the efficient operation of any organization today, such as in hiring employees, performing background checks, ordering/creating products, transacting businesses, and providing follow-up services, among others. These can be large "integrated systems" or ERPs or loose collection of "Apps." This class explores the various alternatives available today and the likely future of new products in the future. Different viewpoints and debates will be explored in the class with opportunities for students to discuss and present their thoughts.

**Prerequisite:** Minimum C+ grade in CIS 24053; and minimum 2.500 overall GPA.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CIS 34032 DATA AND FILE TECHNOLOGY 3 Credit Hours**

An introduction to file architecture and data base management systems. The application of these technologies is detailed.

**Prerequisite:** CIS 34068.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CIS 34034 BUSINESS MODELING AND AGILE DESIGN 3 Credit Hours**

Introduction to methods, tools, and techniques used to analyze and develop information systems, with emphasis on application of methods and concepts to real-world problems. The course is the cornerstone upon which all subsequent IS activities are based. Skills developed in the course would have immediate applicability for IS students and help non-IS students gain knowledge they need to appreciate the role of IS in their organization, so they can better understand how to manage and support IS-related projects.

**Prerequisite:** Minimum 2.500 overall GPA.

**Pre/corequisite:** CIS 24167.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CIS 34036 ENTERPRISE SYSTEMS AND BUSINESS PROCESSES 3 Credit Hours**

Overview of the basics of business processes and Enterprise Resource Planning systems solutions in the cloud. The course prepares students for business process and other cloud related courses, with hands-on experience with a professional ERP system such as SAP. Topics covered include data navigation, client server systems, virtualization, database, security, accounting and procurement processes, and ERP simulation games.

**Prerequisite:** CIS 34034; and minimum 2.500 overall GPA.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CIS 34045 SMALL SYSTEMS TECHNOLOGY 3 Credit Hours**

An examination of the role of small computer systems within an organization's information systems environment.

**Prerequisite:** CIS 34068.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CIS 34068 SYSTEMS ANALYSIS AND DESIGN 3 Credit Hours**

This is an introductory course in Systems Analysis and Design. Students will be presented with the concepts, techniques, and methodologies that are required for the successful development of information systems. Application of methods and concepts to real-world problems will be emphasized.

**Prerequisite:** Minimum C grade in CIS 24053 or IT 11000; and minimum C grade in the following courses CIS 24065, ENG 21011, COMM 15000 and MATH 11010; and minimum 2.500 overall GPA.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CIS 34070 PROGRAMMING THEORY AND APPLICATIONS 3 Credit Hours**

Programming in a strongly-typed language environment with an emphasis on problem-solving.

**Prerequisite:** Minimum C grade in CIS 24053 and CIS 24065; and minimum 2.500 overall GPA.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CIS 34080 COMPUTER PROGRAMMING FOR BUSINESS I 3 Credit Hours**

Introduces a programming language currently used in business and industry for data processing, decision making and other information systems applications.

**Prerequisite:** CIS 34070.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CIS 34167 CREATING INTUITIVE SYSTEMS 3 Credit Hours**

The process of creating products that are intuitive, simple, useful and easy-to-use is difficult and always evolving. However, organizations such as Apple Incorporated and Google that can adopt this approach to product or service development are often on top of their industry. This course will explore this process, its value and how to make it work to help a business prosper and thrive in today's highly competitive market and short product lifecycles.

**Prerequisite:** Minimum C+ grade in CIS 24053; and minimum 2.500 overall GPA.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CIS 34170 TECHNOLOGY BOOTCAMP 3 Credit Hours**

The course covers important current topics and innovations in information system technologies. Students are taught to develop skills that help them to identify and investigate emerging important technologies and learn how to research and master them. Topics covered each semester will be different from those covered in past semesters, with examples of what were covered in the past.

**Prerequisite:** Minimum C+ grade in CIS 24053; and minimum 2.500 overall GPA.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CIS 44007 PROJECT MANAGEMENT AND TEAM DYNAMICS 3 Credit Hours**

Overview and hands-on experience of the principles, tools, and techniques of project management with emphasis on practical aspects of initiating, planning, executing, costing and closing out information systems related projects. The course begins with the Myers-Briggs personality inventory which will help in later class team exercises and uses the PMBOK. Students will work in teams to perform exercises that will help them learn team dynamics and leadership.

**Prerequisite:** Minimum C+ grade in CIS 24053; and minimum 2.500 overall 2.500 GPA.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CIS 44033 ADVANCED COMPUTER PROGRAMMING FOR BUSINESS** 3 Credit Hours

Covers Java programming language, including applications and applets, with emphasis on object-oriented programming. The course also emphasizes problem solving, developing systems, structured programming and programming style conventions.

**Prerequisite:** Minimum C grade in the following courses CIS 24053 and CIS 24065 and CIS 34070; and minimum 2.500 overall GPA.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CIS 44040 PROGRAMMING FOR THE CLOUD** 3 Credit Hours

Cloud development programming course that is based on the client-server architecture. The course begins with a review of HTML and CSS used to build the user interface. Document Object Model (DOM) is investigated as the basis for all web interfaces. Interface stylistic formatting is achieved by use of CSS, and JavaScript for interface in the web browser, while server-based language such as PHP and Python are used to process user actions. The course also introduces jQuery for interface animation.

**Prerequisite:** CIS 24165; and minimum 2.500 overall GPA.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CIS 44042 NETWORK THEORY AND APPLICATIONS** 3 Credit Hours

Presentation of current and emerging network technologies and services in business applications and performance issues. Topics include transmission media, modulation and signaling schemes, switching and multiplexing techniques, local and wide area network protocols and standards, and internetworking devices.

**Prerequisite:** Minimum C grade in CIS 24053 and CIS 24065; and minimum overall 2.500 GPA.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CIS 44043 DATA MANAGEMENT AND BUSINESS INTELLIGENCE I** 3 Credit Hours

The processing, storage, retrieval, manipulation, and management of often massive and complex business data is an essential part of most information systems. This course will expose students to key database concepts such data integrity, conceptual and logical data modeling, and structured query language (SQL). Some of the SQL skills include data definition language (DDL), data manipulation language (DML), transaction control concepts, joins, grouping, and subqueries. The course will also introduce database management concepts related to managing users and physical storage space. Current and future database trends and issues will also be discussed including security, introduction to emerging topics in big data, data acquisition, analytics and visualization.

**Prerequisite:** CIS 44040; and minimum 2.500 overall GPA.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CIS 44044 SYSTEMS ANALYSIS II** 3 Credit Hours

Physical system implementation: mapping logical data models and process models to physical data bases and system design; system coding, testing, installation, conversion, training and automated tools.

**Prerequisite:** CIS 34068.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CIS 44045 INFORMATION SYSTEMS MANAGEMENT** 3 Credit Hours

Management of information systems resources in organizations of all types and sizes; IT best practices; the effective and efficient use of IS in support of the organization's mission and to achieve competitive advantage in today's global economy; the impact of IT on enterprises, users, customers, society, and the environment.

**Prerequisite:** Minimum C grade in the following courses CIS 24053 and CIS 24065; minimum 2.500 overall GPA; and senior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CIS 44048 CLOUD SYSTEMS INTEGRATION (ELR) (WIC)** 3 Credit Hours

As a writing intensive course the primary objective is that students or team of students write and rewrite their reports to consistently produce high quality, clear, and to the point written and verbal communication with feedback from their instructor. Students participate as a member of a project development team that builds cloud-based information system using a cloud platform for a real client. To be completed successfully, the projects often require knowledge, content, and skills from all prior IS courses.

**Prerequisite:** Minimum 2.500 overall GPA.

**Pre/corequisite:** CIS 44043.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Experiential Learning Requirement, Writing Intensive Course

**CIS 44049 NETWORK MANAGEMENT AND CYBERSECURITY** 3 Credit Hours

The course explores technologies and business issues related to computer networking and security, with emphasis on the protocols in modern business networking such as Ethernet and TCP-IP. Topics also include cybersecurity threats and defenses, privacy, cloud and parallel computing, and map-reduce.

**Prerequisite:** Minimum C grade in the following courses CIS 24053 and CIS 24065; and minimum 2.500 overall GPA.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CIS 44093 VARIABLE TITLE WORKSHOP IN MANAGEMENT AND INFORMATION SYSTEMS** 1-6 Credit Hours

Repeatable for credit) Variable title workshop courses offered under management and information sciences.

**Prerequisite:** Minimum 2.500 overall GPA.

**Schedule Type:** Workshop

**Contact Hours:** 1-6 other

**Grade Mode:** Satisfactory/Unsatisfactory

**CIS 44095 SPECIAL TOPICS IN COMPUTER INFORMATION SYSTEMS** 3 Credit Hours

(Repeatable for credit) Offered on a semester basis with different CIS topics and different faculty involved each time the course is offered.

**Prerequisite:** Minimum 2.500 overall GPA; and junior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CIS 44140 APPLICATION DESIGN AND DEVELOPMENT 3 Credit Hours**

The focus of this course is about making apps for mobile and other devices. Techniques that permit apps to be developed and then used as native on Android and iOS platforms are covered, with emphasis on interface design, client programming, server programming, database use for storage and retrieval, and security. The Model-View-Controller (MVC) architecture is used as the basis for app development, including interface, programming and data management.

**Prerequisite:** CIS 44040; and minimum 2.500 overall GPA.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CIS 44243 DATA MANAGEMENT AND BUSINESS INTELLIGENCE II 3 Credit Hours**

The course explores advanced topics in the acquisition, management and use of data. The knowledge and skills presented in Data Management and Business Intelligence I, big data, data acquisition, analytics and visualization are extended with an emphasis on machine learning, artificial intelligence, and NoSQL. There is also an introduction to blockchain concept using software platforms.

**Prerequisite:** CIS 44043; and minimum 2.500 overall GPA.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CIS 44292 BUSINESS EXPERIENCE AND INTERNSHIP (ELR) 3 Credit Hours**

(Repeatable for credit) Learning by experience and practice in an IT related company. The course exposes students to the various areas and activities related to the information systems profession in a cooperating organization.

**Prerequisite:** Minimum C+ grade in CIS 24053; and minimum 2.500 overall GPA.

**Schedule Type:** Practical Experience

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**Attributes:** Experiential Learning Requirement

**CIS 44293 WORKSHOP IN PROFESSIONAL IS CERTIFICATION 3 Credit Hours**

Supervised workshop designed to help students pass at least one VMware, Microsoft or other vendors' professional certification credentials. The student chooses the exam to take, with the course providing a supported self-study opportunity to prepare for the exam.

**Prerequisite:** Minimum C+ grade in CIS 24053; and minimum 2.500 overall GPA.

**Schedule Type:** Workshop

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**CIS 44295 SPECIAL TOPICS IN INFORMATION SYSTEMS 3 Credit Hours**

(Repeatable for credit) Special topics course on newest advances in information systems technology and how they support business activities. New and emerging topics in information systems are presented in an experimental way, with the content of the course changing from one offering to the other.

**Prerequisite:** Minimum C+ grade in CIS 24053; and minimum 2.500 overall GPA.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Human Resource Management (HRM)****HRM 34092 PRACTICUM CAREER DEVELOPMENT (ELR) 3 Credit Hours**

In-depth training and development course designed to prepare students for resume presentation, job search, interviewing, participation in the internship and career launching.

**Prerequisite:** Minimum 2.500 overall GPA; and junior standing.

**Schedule Type:** Lecture, Practical Experience

**Contact Hours:** 1 lecture, 2 other

**Grade Mode:** Standard Letter

**Attributes:** Experiential Learning Requirement

**HRM 34180 HUMAN RESOURCE MANAGEMENT 3 Credit Hours**

Focuses on the importance of the management of human resources for any organization, its employees, customers, shareholders, and the community where it is located. The topic helps students understand the important issues that derive from managing people at work and the changing environment organizations face. Students will learn the integral role human resources management plays to the success or failure of an organization. Both practical and theoretical perspectives are presented.

**Prerequisite:** MGMT 24163 or BMRT 11009; and minimum 2.500 overall GPA.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HRM 34187 INTERNATIONAL EXPERIENCE IN HUMAN RESOURCE MANAGEMENT 3 Credit Hours**

Guided introduction to applied Human Resource Management in another culture by examining opportunities and challenges. Via select company tours, tour of historical sites and meetings with management from local companies as well as U.S. companies doing business in foreign countries, students will be exposed to the current HR functions and practices in a foreign country, such as selecting and managing a workforce, compliance with the employment laws, employee training and development, expatriation repatriation, performance management, and compensation issues.

**Prerequisite:** HRM 34180 or BMRT 31006 with a minimum C grade; and minimum 2.500 overall GPA; and sophomore standing; and special approval.

**Schedule Type:** Field Experience

**Contact Hours:** 9 other

**Grade Mode:** Standard Letter

**HRM 44091 SEMINAR IN HUMAN RESOURCE MANAGEMENT 3 Credit Hours**

(Repeatable for credit) (Slashed with MIS 54091) In-depth readings, discussion projects and presentations in a specialized area of human resource management.

**Prerequisite:** HRM 34180 or BMRT 31006; and minimum 2.500 overall GPA.

**Schedule Type:** Seminar

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter



**HRM 44183 DEVELOPING AND TRAINING HUMAN RESOURCES IN ORGANIZATIONS 3 Credit Hours**

(Slashed with MIS 54183) Course focus is quality training design, based upon theory and empirical research. Implications for practice and current challenges in employee training and development are also highlighted.

**Prerequisite:** HRM 34180 or BMRT 31006 with a minimum C grade; and minimum 2.500 overall GPA.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HRM 44185 STAFFING HUMAN RESOURCES 3 Credit Hours**

(Slashed with MIS 54185) Staffing, development of systems to select, place, promote, and retain employees to enhance organizational effectiveness and maintain legal compliance are core HRM activities in organizations. This course will provide students with an understanding of the technical components of selection, including how to determine which applicant characteristics should be examined, what procedures should be used to gather information, and how that information should be combined to identify qualified job applicants. In addition, this course focuses on promotion and retention of employees.

**Prerequisite:** HRM 34180 or BMRT 31006 with a minimum C grade; and a minimum 2.500 overall GPA.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HRM 44195 ADVANCED TOPICS IN HUMAN RESOURCE MANAGEMENT 3 Credit Hours**

(Repeatable for a total of 6 credit hours) Advanced topics course that are offered on a yearly basis. Topics can span the full range of HR functions. This course can also have a practicum format.

**Prerequisite:** HRM 34180 or BMRT 31006; and minimum 2.500 overall GPA.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HRM 44445 GLOBAL HUMAN RESOURCE MANAGEMENT (WIC) 3 Credit Hours**

(Slashed with MIS 54445) The course examines the impact of internationalization and cross-cultural challenges on organizations, the factors involved in selecting and managing an international workforce, the evaluation of employee relations and employment law, and address issues such as employee training and development, expatriation-repatriation, performance management, and compensation issues, all from the perspective of managing an international organization.

**Prerequisite:** HRM 34180 or BMRT 31006 with a minimum C grade; and minimum 2.500 overall GPA; and student must be enrolled in the human resource management major or minor; and senior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Writing Intensive Course

**HRM 44492 BUSINESS EXPERIENCE AND INTERNSHIP IN HUMAN RESOURCE MANAGEMENT (ELR) 3 Credit Hours**

(Repeatable for credit) Learning by experience by performing activities related to the Human Resource Management profession in a cooperating organization.

**Prerequisite:** HRM 34180 or BMRT 31006 with a minimum C grade; and a minimum 2.500 overall GPA; and must be enrolled in the human resource management major or minor.

**Schedule Type:** Practical Experience

**Contact Hours:** 1 lecture, 14 other

**Grade Mode:** Standard Letter

**Attributes:** Experiential Learning Requirement

**HRM 44495 SPECIAL TOPICS IN HUMAN RESOURCE MANAGEMENT 3 Credit Hours**

(Repeatable for credit) Offered on a semester basis with different human resource management topics and different faculty involved each time the course is offered.

**Prerequisite:** Minimum 2.500 overall GPA; and junior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HRM 44499 HUMAN RESOURCE BUSINESS CONSULTING AND PROJECTS (ELR) 3 Credit Hours**

This course bridges between Human Resource Management coursework and the world of HRM practice. The course will provide a variety of learning experiences to help students gain knowledge and practical experience to prepare them to embark on careers in the HRM profession. Upon completion of this course, students should have much to discuss in a job interview and a useful entry on their resumes.

**Prerequisite:** HRM 34180 or BMRT 31006 minimum C grade; and minimum 2.500 overall GPA; and student must be enrolled in the human resource management minor or major.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Experiential Learning Requirement

**HRM 44660 PERFORMANCE MANAGEMENT AND COMPENSATION SYSTEMS 3 Credit Hours**

The course provides overview of the performance management process, examines various approaches to performance management, and discusses sources of performance management information. Also considers the nature of the compensation systems and pay system mechanics, as well as methods for recognizing employee contributions through compensation.

**Prerequisite:** HRM 34180 or BMRT 31006 with a minimum C grade; and minimum 2.500 overall GPA.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HRM 44763 HUMAN RESOURCE ANALYTICS AND ERP SYSTEMS 3 Credit Hours**

The course examines the use of HR data, metrics, analytics, and ERP systems to guide human resource management decision making and support the strategic goals of the organization. The course will introduce students to the characteristics of high quality data, introduce common analysis techniques, data interpretation and visualization, and report assessment. Through lecture, readings, and problem solving exercises using enterprise resource planning systems (SAP and Oracle), students will gain the knowledge and skills necessary to assess various human resource management initiatives and formulate solutions to common human-resource-related problems. Upon completion of the course, students will understand how HR analytics and ERP systems help an organization achieve its strategic goals.

**Prerequisite:** HRM 34180 or BMRT 31006 with a minimum C grade; and minimum 2.500 overall GPA.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

## Management (MGMT)

**MGMT 24056 BUSINESS ANALYTICS I 3 Credit Hours**

(Equivalent to BMRT 21004) Introduction to concepts in statistical methods and their applications to real world problems. Examines both the theoretical and practical side of the different methods.

**Prerequisite:** MATH 11010 or MATH 11012 or MATH 12002.

**Schedule Type:** Laboratory, Lecture, Combined Lecture and Lab

**Contact Hours:** 2 lecture, 2 lab

**Grade Mode:** Standard Letter

**MGMT 24163 PRINCIPLES OF MANAGEMENT 3 Credit Hours**

(Equivalent to BMRT 11009) Introductory course in management and organizational design. The leading contributions in the area are reviewed and practical implications are developed. The course covers the principles that most management professors have come to expect in an introductory course: planning, organizing, leading, and controlling. In addition, the students need to be aware of critical issues managers must be aware of to succeed: diversity, globalization, ethics, technology, sustainability among them. The course serves as an introduction to many upper level business courses.

**Prerequisite:** Sophomore standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MGMT 34054 USING INFORMATION SYSTEMS FOR SOLVING BUSINESS PROBLEMS 3 Credit Hours**

Course examines key concepts about information systems that are relevant for business managers. Students will complete hands-on assignments. Course is not open to students in the Computer Information Systems major.

**Prerequisite:** CIS 24053 or IT 11000; and minimum 2.000 overall GPA.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MGMT 34055 COMPUTER DECISION MODELING 3 Credit Hours**

Introduces students to the scientific decision-making tools of operations research and management science, and also to the use of spreadsheet modeling for problem formulation and solution without the need for mathematics. The concepts of modeling and better decision making are stressed along with illustrations from the various functional areas of business. Course not open to computer information systems majors.

**Prerequisite:** CIS 24053 or IT 11000; and MGMT 24056 or MATH 10041 or BMRT 21004; and minimum 2.500 overall GPA.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MGMT 34059 SERVICE OPERATIONS MANAGEMENT 3 Credit Hours**

Provide students with the concepts and tools necessary to effectively manage service operations and to prepare students for management opportunities in service firms that represent the fastest-growing sector of the economy. The service management will be presented from an integrated viewpoint with a focus on customer satisfaction. The course materials are organized around four modules (1) understanding services (2) designing the service enterprise, (3) managing service operations and (4) toward world class-service.

**Prerequisite:** MGMT 34060; and minimum 2.500 overall GPA.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MGMT 34060 OPERATIONS MANAGEMENT 3 Credit Hours**

A survey course in operations management that covers the managerial concepts and the quantitative tools used in the design, planning operation and control of operations systems.

**Prerequisite:** CIS 24053 or IT 11000; and MGMT 24056 or MATH 10041 or BMRT 21004.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MGMT 34064 MANUFACTURING RESOURCE PLANNING 3 Credit Hours**

Introduce students to the basic tools operations managers use to inform their decisions on a daily basis. The course involves hands-on coverage of manufacturing resource planning tools, including forecasting and master production schedules, bill of materials structuring, order entry and purchasing, capacity requirements planning, routing, costing, customer service, shipping, invoicing and using an enterprise resource planning (ERP) software.

**Prerequisite:** MGMT 34060; and minimum 2.500 overall GPA.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MGMT 34065 QUALITY ASSURANCE 3 Credit Hours**

Introduction to importance of quality assurance and tools used to accomplish better quality in goods and services. Topics TQM, Six Sigma, quality philosophies, sampling plans and statistical process control, ISO, quality competition and awards.

**Prerequisite:** MGMT 34060; and minimum 2.500 overall GPA.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MGMT 34156 BUSINESS ANALYTICS II 3 Credit Hours**

This course provides an introduction and application of business analytics to real-world problems. Specifically, students are exposed to methods and models that allows business users to make better decisions based on data. We discuss methods for collecting, cleaning, and visualizing data, linear, non-linear, and optimization models to help decision makers choose the best decision, and some advanced forms of modeling. The goal of this course is for students to be exposed to essential topics in business analytics, and to apply these techniques to real-world problems.

**Prerequisite:** BMRT 21004 or MATH 10041 or MGMT 24056.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MGMT 34157 INTRODUCTION TO HEALTHCARE SYSTEMS MANAGEMENT 3 Credit Hours**

Provides an overview of the management, economic and policy issues facing the healthcare, pharmaceutical, biotechnology and medical device industries. The course perspective is global, with emphasis on the U.S. as the largest and most profitable market.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MGMT 34158 MANAGERIAL AND TECHNOLOGICAL ASPECTS OF HEALTHCARE SYSTEMS MANAGEMENT 3 Credit Hours**

Introduce the main components of health care information technology, with emphasis on the components that distinguish the health care delivery system from other business enterprises. Prepares students as clinical managers and consultants who must rely upon or manage information technology to accomplish their objectives.

**Prerequisite:** MGMT 34157.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MGMT 34159 MANAGING HEALTHCARE SYSTEMS OPERATIONS 3 Credit Hours**

Operational process management, cost-control and productivity is critical to cost-effective healthcare. Covers topics in improving operations such as patient flow, quality (concepts and mechanics) and process improvement. Students become familiar with methods and resources for implementing change in a health care setting, such as a hospital or outpatient clinic. Provides skills to assess current hospital operations and to identify the appropriate tools to address various functional areas, useful for managers, consultants, clinical providers and others. Process improvement methods such as lean thinking, six sigma, statistical tools, flowcharting, queuing models and other tools are covered. Health care settings beyond the hospital, such as outpatient clinics, are included.

**Prerequisite:** MGMT 34157.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MGMT 34164 ORGANIZATIONAL MENTORING 3 Credit Hours**

Course promotes leadership development through the study of leadership principles, styles, and role models. Students will learn through class lecture and discussion as well as hand-on leadership experience in Exploring Business Interactive Business Seminars (i.e., business labs). Students will work with course instructor to develop a personal leadership plan.

**Prerequisite:** BUS 10123; and minimum 2.500 overall GPA; and special approval.

**Schedule Type:** Laboratory, Lecture, Combined Lecture and Lab

**Contact Hours:** 2 lecture, 2 lab

**Grade Mode:** Standard Letter

**MGMT 34165 DYNAMICS OF LEADERSHIP 3 Credit Hours**

This course discusses management and leadership concepts and does so by blending theory and practice. The courses uses case studies, practical application approaches, personal assessment and provides opportunities for students to develop individual and group leadership skills. In addition, many organizational behavior concepts are blended throughout the course.

**Prerequisite:** MGMT 24163 or BMRT 11009.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MGMT 34175 LEARNING TO LEAD 3 Credit Hours**

This is a hands-on learning and leadership course. Classroom time occurs over 4 days at a residential camp before the semester begins. Students learn about leadership from professors, experts in the field, and each other through interactive discussions and activities. During the semester students continue their leadership development working with a personal mentor, and practice their skills through community service projects.

**Prerequisite:** Special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MGMT 34185 INDIVIDUAL AND GROUP BEHAVIOR IN ORGANIZATIONS 3 Credit Hours**

Determinants of individual and group behavior within work organizations. Topics covered include, motivation, job design, learning, decision making, leadership and group behavior as they relate to performance and other outcomes in work organizations.

**Prerequisite:** MGMT 24163 or BMRT 11009.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MGMT 34280 ORGANIZATIONAL CHANGE MANAGEMENT 3 Credit Hours**

This course focuses on understanding the processes and challenges involved in responsible organizational change management. The course will provide students a blend of both research and best practice professional applications.

**Prerequisite:** MGMT 24163 or BMRT 11009; and MGMT 34165; and minimum 2.500 overall GPA.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MGMT 44009 THE BUSINESS CASE FOR SUSTAINABILITY 3 Credit Hours**

The course lays the foundation for sustainable development and the balance issues between economic, social and environmental interests. It frames the business enterprise within the natural and social environments, and surveys a variety of intersection points and the challenges they pose. Systems thinking and long term perspective are used to understand the potential consequences of organizational choices regarding goals and strategies, given consideration of how the natural environment increasingly drives the business environment.

**Prerequisite:** Minimum 2.500 overall GPA; and junior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MGMT 44061 OPERATIONS MANAGEMENT AND CONTROL 3 Credit Hours**

Introduces the student to the key functions of an operations planning and control system. Operations planning and control systems provide information for the efficient flow of materials, the effective utilization of people and equipment and the proper coordination of internal activities with suppliers and customers.

**Prerequisite:** Minimum 2.500 overall GPA.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MGMT 44062 SUPPLY CHAIN MANAGEMENT 3 Credit Hours**

Students learn the basic analytical tools needed to coordinate business operations across the value chain. Course involves hands-on coverage of supply chain management with emphasis on supplier partnering and development, customer relations management, strategic sourcing and pricing, e-business, measuring supply chain performance, mass customization, planning supply and demand coordination in the supply chain.

**Prerequisite:** Minimum 2.500 overall GPA; and junior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MGMT 44065 STRATEGIES IN PRODUCTION AND OPERATIONS MANAGEMENT (WIC) 3 Credit Hours**

Senior project in industrial management. Applies concepts from all prior coursework to the solution of real and simulated operating problems.

**Prerequisite:** Minimum 2.500 overall GPA.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Writing Intensive Course

**MGMT 44096 INDIVIDUAL INVESTIGATION IN MANAGEMENT 3 Credit Hours**

(Repeatable for credit) Presents opportunity to undertake research. Approval of topic and agreement to work with student must be secured from faculty member and the chairperson of the department prior to registration.

**Prerequisite:** Special approval.

**Schedule Type:** Individual Investigation

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**MGMT 44152 PROJECT MANAGEMENT 3 Credit Hours**

This course covers the fundamental concepts, procedures and processes related to managing projects from initiation through planning, execution and closing. It also introduces the principles, tools and methods used in project management, and the use of project management software (ProjectLibre) in managing projects. The topics covered in the course can be helpful in preparing for Project Management Professional (PMP) certification.

**Prerequisite:** Minimum 2.500 overall GPA; and junior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MGMT 44163 GLOBAL BUSINESS MANAGEMENT (WIC) 3 Credit Hours**

Provides an overview of contemporary issues and theoretical frameworks in the field of international strategic management using traditional lecture and practical application cases.

**Prerequisite:** Minimum C grade in ENG 21011, COMM 15000 and MATH 11010; minimum 2.50 overall GPA; and senior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Writing Intensive Course

**MGMT 44187 INTERNATIONAL MANAGEMENT EXPERIENCE 3 Credit Hours**

This course focuses on strategy and policy development and execution for gaining and sustaining global competitive advantage. Strategic management of entrepreneurial and well-established firms, and operational and financial structures of international firms and markets are discussed.

**Prerequisite:** MGMT 24163 with a minimum C grade; and minimum 2.500 overall GPA; and sophomore standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 9 other

**Grade Mode:** Standard Letter

**MGMT 44191 SENIOR RESEARCH SEMINAR IN MANAGEMENT 3 Credit Hours**

(Repeatable for credit) Combination of individual or group research and class discussion for superior students. Investigations in administration and organization conducted in accordance with scholarly interests of participants.

**Prerequisite:** Special approval.

**Schedule Type:** Seminar

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**MGMT 44192 INTERNSHIP IN MANAGEMENT (ELR) 3 Credit Hours**

(Repeatable for credit) A supervised field experience requiring a minimum of 145 hours of work at a cooperating organization. Requires regular contact with instructor and preparation of an internship report connecting academic coursework to on the job experiences.

**Prerequisite:** MGMT 24163 with minimum C grade; and minimum 2.500 overall GPA; and special approval.

**Schedule Type:** Practical Experience

**Contact Hours:** 15 other

**Grade Mode:** Standard Letter

**Attributes:** Experiential Learning Requirement

**MGMT 44285 INTEGRATED BUSINESS POLICY AND STRATEGY 3 Credit Hours**

Integration of the functional areas of business in the formulation and implementation of policy. Projects and case analyses of business situations provide students with the opportunity to apply analytical and creative problem solving skills.

**Prerequisite:** ACCT 23020 and ACCT 23021 and ECON 22060 and ECON 22061 and MKTG 25010 and CIS 24053 and MGMT 24056 and MGMT 24163 and MGMT 34060 and FIN 26074 and FIN 36053; and minimum 2.500 overall GPA; and major within the college of business administration; and senior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MGMT 44299 MANAGEMENT CAPSTONE (ELR) (WIC) 3 Credit Hours**

Course integrates various management concepts in informing a manager's strategic decision making process. Students use case analyses and class lectures to demonstrate their leadership abilities in different business scenarios.

**Prerequisite:** ACCT 23020 and ACCT 23021 and CIS 24053 and ECON 22060 and ECON 22061 and FIN 26074 and FIN 36053 and MGMT 24056 and MGMT 24163 and MGMT 34060 and MKTG 25010; and minimum 2.500 overall GPA; and declared in General Business major; and senior standing.

**Schedule Type:** Project or Capstone

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**Attributes:** Experiential Learning Requirement, Writing Intensive Course

**MGMT 44392 BUSINESS CONSULTING AND PRACTICUM (ELR) 3 Credit Hours**

Provides decision-making tools for solving real-world problems by building synergies in prior knowledge to create a synthesis of real life solutions delivery mechanisms underpinning them to pressing problems of the local and international community. The practicum component includes consulting experience with both for profit and not-for-profit business clients.

**Prerequisite:** MGMT 24163; and minimum 2.500 overall GPA; and senior standing.

**Schedule Type:** Practical Experience

**Contact Hours:** 15 other

**Grade Mode:** Standard Letter

**Attributes:** Experiential Learning Requirement

**MGMT 44395 SPECIAL TOPICS IN MANAGEMENT 3 Credit Hours**

(Repeatable for credit) Offered on a semester basis with different management topics and different faculty involved each time the course is offered.

**Prerequisite:** Minimum 2.500 overall GPA; and junior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

## Management and Information Systems (MIS)

**MIS 54091 SEMINAR IN HUMAN RESOURCE MANAGEMENT 3 Credit Hours**

(Cross-listed with HRM 44091) In-depth readings, discussion projects and presentations in a specialized area of human resource management.

**Prerequisite:** Business administration major; and graduate standing.

**Schedule Type:** Seminar

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MIS 54183 DEVELOPMENT AND TRAINING HUMAN RESOURCES IN ORGANIZATIONS 3 Credit Hours**

(Cross-listed with HRM 44183) Course focus is quality training design, based upon theory and empirical research. Implications for practice and current challenges in employee training and development are also highlighted.

**Prerequisite:** Business administration major within the master of business administration degree; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MIS 54185 STAFFING HUMAN RESOURCES 3 Credit Hours**

(Cross-listed with HRM 44185) Staffing, development of systems to select, place, promote, and retain employees to enhance organizational effectiveness and maintain legal compliance are core HRM activities in organizations. This course will provide students with an understanding of the technical components of selection, including how to determine which applicant characteristics should be examined, what procedures should be used to gather information, and how that information should be combined to identify qualified job applicants. In addition, this course focuses on promotion and retention of employees.

**Prerequisite:** Business administration major within the master of business administration degree.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MIS 54445 GLOBAL HUMAN RESOURCE MANAGEMENT 3 Credit Hours**

(Cross-listed with HRM 44445) The course examines the impact of internationalization and cross-cultural challenges on organizations, the factors involved in selecting and managing an international workforce, the evaluation of employee relations and employment law, and address issues such as employee training and development, expatriation repatriation, performance management, and compensation issues, all from the perspective of managing an international organization.

**Prerequisite:** Business administration major within the master of business administration degree; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MIS 64005 ANALYTICS FOR DECISION MAKING 2 Credit Hours**

This course uses computer capabilities to analyze and understand a variety of statistical and business analytics techniques and how to apply these techniques to solving business problems.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter



**MIS 64011 SYSTEMS SIMULATION 3 Credit Hours**

Techniques and applications of computer simulation of existing or proposed real-world systems. Use of simulation language, simulations studies, analysis and interpretation of results.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MIS 64013 NONPARAMETRIC AND ROBUST STATISTICS 3 Credit Hours**

(Slashed with MIS 74013) A presentation of statistically sound techniques for those who need to be able to use nonparametric or robust methods to deal with non-normal distributions or outliers (common problems) in their data.

**Prerequisite:** MIS 64005 or 74005; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MIS 64017 MULTIVARIATE STATISTICS 3 Credit Hours**

This course is devoted to a study of multivariate statistical methods. Topics include multivariate analysis of variance, canonical correlation, principal component analysis, discriminant analysis cluster analysis and factor analysis.

**Prerequisite:** MIS 64023 or 74023; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MIS 64018 QUANTITATIVE MANAGEMENT MODELING 3 Credit Hours**

A variety of optimization and heuristic modeling techniques are explored. Decision-making environments, model selection, and interpretation are emphasized. Various linear and nonlinear mathematical programming techniques are the primary topic but are supplemented with other optimization and heuristic techniques.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MIS 64019 RESEARCH SEMINAR IN SUPPLY CHAIN MANAGEMENT 3 Credit Hours**

Research seminar designed primarily for students who seek an in-depth understanding of the current research literature in supply chain management and who are interested in doing research in supply chain management. Students study the academic literature with emphasis on the development and use of analytical tools and models to solve supply chain management problems. Specifically, the course will address quantitative modeling to support operational, tactical and strategic decision-making in supply chain management.

**Prerequisite:** Graduate standing.

**Schedule Type:** Seminar

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MIS 64020 ADVANCED STATISTICAL MODELS 3 Credit Hours**

This is a special focus course for which the topics will vary. It will generally include sampling techniques, experimental designs, similar statistical methods, internal and external validity and reliability issues.

**Prerequisite:** MIS 64023 or 74023; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MIS 64023 LINEAR STATISTICAL MODELS AND APPLICATIONS 3 Credit Hours**

Models and applications of simple and multiple regression, correlation and analysis of variance.

**Prerequisite:** MIS 64005 or 74005; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MIS 64026 GLOBAL SUPPLY CHAIN MANAGEMENT AND SUSTAINABLE STRATEGIES 3 Credit Hours**

Introduces the knowledge base needed to coordinate business operations across global supply chains. Addresses how to integrate traditional business operations so as to align them in support of inter-firm collaboration required to compete globally. Investigates specific topics relevant to supply chain management and offers a managerial orientation towards supporting global supply chain operations. Immerses students into responsible supply chain practices around the globe with strong emphasis and orientation towards sustainable (green) supply chains.

**Prerequisite:** MIS 64041; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MIS 64028 GLOBAL SUPPLY CHAIN BUSINESS MODELS 3 Credit Hours**

Focus on modeling techniques for supporting decision making in supply chain management. Introduces students to the problems facing a global supply chain manager and the implementation of spreadsheet-based models for solving problems that arise in the operation of a supply chain. Emphasis is placed on model formulation and interpretation in support of decisions to coordinate and improve supply chain operations.

**Prerequisite:** MIS 64026 or 64036; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MIS 64029 SUPPLY CHAIN AND VENDOR MANAGEMENT STRATEGIES 3 Credit Hours**

Building global 'relationships' are central pillars to effective supply chain management. There are strategic relationships, tactical relationships, transactional relationships, internal relationships, and of course, relationships with the government. As supply chains become global, managers have to consider cultural, regulatory, and communication differences to create and operate within the global village. Students learn how to deal with a rapidly changing landscape and understand how to deal with distributed resources, vendors, and people across cultures and convictions.

**Prerequisite:** MIS 64026; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MIS 64036 BUSINESS ANALYTICS 3 Credit Hours**

Overview of business analytics and its appropriate applications in various industries and functional areas. Critical thinking, problem definition, problem solving, effective communication, and leadership are emphasized. Methods such as data visualization and descriptive, predictive, and prescriptive analytics are covered from a broad perspective. This course is applied, hands-on, and case-based. Cases emphasize the communication of quantitative solutions to laypeople and required leadership during decision-making and implementation stages.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MIS 64037 ADVANCED DATA MINING AND PREDICTIVE ANALYTICS 3 Credit Hours**

Course extends the coverage of data mining and predictive analytics. Topics focus on the applied use of these techniques in realistic settings. Covers statistical and machine learning techniques.

**Prerequisite:** MIS 64036 or MIS 64060; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MIS 64038 ANALYTICS IN PRACTICE 3 Credit Hours**

Course focuses on supporting techniques and managerial and professional skills necessary to being an effective business analyst. Other topics include project management, requirements analysis, change management, team dynamics, leadership, ethics and effective communication between all stakeholders.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MIS 64041 OPERATIONS, SERVICE AND SUPPLY CHAIN MANAGEMENT 2 Credit Hours**

Develops a framework for analysis of operating problems. Uses computer, quantitative and behavioral models to develop operating plans consistent with organizations' competitive (or service) strategy.

**Prerequisite:** MIS 64005; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**MIS 64042 GLOBALIZATION AND TECHNOLOGY STRATEGY 2 Credit Hours**

This course is designed to provide both, general managers and Information Technology (IT) managers, an overview of the issues that are related to the management of an organization's IT assets. For general managers, the course offers frameworks for evaluating and guiding IT activities in their organizations. For the IT managers, the course offers frameworks for organizing and understanding the management challenges related to deployment of IT in their organizations. The focus is on decisions made by organizations as they attempt to deal with the challenges posed by IT in various functional areas of an organization.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**MIS 64047 MANUFACTURING TECHNOLOGY AND STRATEGY 3 Credit Hours**

This course provides the student with an introduction to modern techniques in manufacturing and the necessary strategic concepts to implement them. A similar discussion of service industries is also included.

**Prerequisite:** Graduate standing; and special approval of instructor.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MIS 64050 ESSENTIALS OF BUSINESS MGMT 3 Credit Hours**

This is an introductory management course that discusses functional areas of business and their strategic positioning in delivering business solutions.

**Prerequisite:** Non-college of business administration majors; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MIS 64060 FUNDAMENTALS OF MACHINE LEARNING 3 Credit Hours**

In this course, you learn some fundamentals of machine learning. Specifically, we concentrate on classification modelling, segmentation and clustering and recommendation systems.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MIS 64061 ADVANCED MACHINE LEARNING 3 Credit Hours**

Introduction to deep learning and time series data analysis. Students consider applications of deep learning to computer vision, text analysis and sequences, and time series data.

**Prerequisite:** MIS 64060; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MIS 64080 EMERGING HARDWARE AND SOFTWARE TECHNOLOGIES 3 Credit Hours**

Investigation of selected emerging hardware and software technologies such as parallel processing systems, computer languages and operation systems, artificial intelligence, neural networks and chaos theory.

**Prerequisite:** Graduate standing; and special approval of instructor.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MIS 64081 DATA COMMUNICATIONS AND NETWORKING IN BUSINESS 3 Credit Hours**

An introduction to telecommunications and computer networks. Topics include telecommunications technologies and services communication standards and protocols local area networks and network management.

**Prerequisite:** Graduate standing; and special approval of instructor.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MIS 64082 DATABASE MANAGEMENT AND DATABASE ANALYTICS**  
**3 Credit Hours**

The design, implementation and management of database management systems within organizations are studied from an applied perspective. Additional emphases include data warehousing, structured query language for analytics, and introductions to NoSQL databases and big data analytics.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MIS 64083 INFORMATION SECURITY: A MANAGERIAL PERSPECTIVE**  
**3 Credit Hours**

Introduction to the information security areas that managers must understand in order to deal with today's security threat-laden environment. The emphasis is on the important principals and concepts that managers utilize to develop effective security risk management programs.

**Prerequisite:** Admission to MBA program or admission to MS IAKM program; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MIS 64092 INTERNSHIP IN BUSINESS ANALYTICS** 3 Credit Hours

(Repeatable for credit) A supervised field experience at a cooperating organization. Requires regular contact with instructor and preparation of an internship report connecting academic coursework to on-the-job experiences.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture, Practical Experience

**Contact Hours:** 1 lecture, 17 other

**Grade Mode:** Standard Letter

**MIS 64099 CAPSTONE PROJECT IN BUSINESS ANALYTICS** 3 Credit Hours

(Repeatable for credit) In this culminating project, students draw on the breadth and depth of the curriculum to address an industry supplied problem individually or in small teams. Projects will explore prescriptive analytics as is appropriate to their design project. In-progress (IP) mark permissible.

**Prerequisite:** MIS 64036 or MIS 64060; and graduate standing.

**Schedule Type:** Project or Capstone

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**MIS 64108 APPLIED TOPICS IN HUMAN RESOURCE MANAGEMENT**  
**3 Credit Hours**

Course provides students an opportunity to learn about human resource management through an application of the material to real-world problems. Topics covered may include but not be limited to job analysis, selection methods, employee training, and performance evaluation.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MIS 64158 LEADERSHIP AND MANAGERIAL ASSESSMENT** 2 Credit Hours

Students develop an understanding of the leadership process. Through critical thinking, class discussions and class activities, they build skills in leading others, leading themselves, and teamwork.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**MIS 64160 LEADERSHIP AND ORGANIZATIONAL CHANGE** 3 Credit Hours

Course provides students in-depth knowledge of leading organization change. Covers analysis of existing conditions, drivers of change and readiness for change along with methods of change and change implementation.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MIS 64185 BUSINESS STRATEGY** 3 Credit Hours

Integrative approach to the study of policy formulation and implementation. Formalized planning systems reviewed; case analysis of actual business situations helps student further develop analytical and communication skills.

**Prerequisite:** Completion of 18 credit hours of college of business administration coursework; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MIS 64263 EMPLOYEE SELECTION AND APPRAISAL** 3 Credit Hours

This course will focus primarily on issues associated with the person/job matching process in modern organizations related to the selection and appraisal of employees.

**Prerequisite:** MIS 64271; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MIS 64270 ORGANIZATIONAL ANALYSIS AND DESIGN** 3 Credit Hours

Course provides students an in-depth examination of all of the factors influencing human behavior at work.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MIS 64271 HUMAN RESOURCE MANAGEMENT** 2 Credit Hours

This course explores the management of a firm's human resources from practical and theoretical perspectives of managing people at work. How high performance work practices (HPWPs) help businesses to motivate their employees for strategic competitive advantage is emphasized.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**MIS 64275 STRATEGIC GLOBAL MANAGEMENT 3 Credit Hours**

Strategic global management explores micro-level concepts and strategic managerial alternatives within the context of current global business operations in the political, economic and cultural environment facing today's manager.

**Prerequisite:** Completion of 24 credit hours of graduate courses from the college of business administration; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MIS 68051 BUSINESS PROFESSIONAL DEVELOPMENT I 1 Credit Hour**

Development of professional business skills for the full-time MBA student to use in both the graduate program and career development.

**Prerequisite:** Admission to MBA program; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 1 lecture

**Grade Mode:** Satisfactory/Unsatisfactory

**MIS 68052 BUSINESS PROFESSIONAL DEVELOPMENT II 1 Credit Hour**

Continuation of development of professional business skills for the full-time MBA student primarily focused on building and strengthening the skills needed by a manager for the workplace.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 1 lecture

**Grade Mode:** Satisfactory/Unsatisfactory

**MIS 74005 STATISTICS FOR MANAGEMENT I 3 Credit Hours**

This course uses computer capabilities to use and understand a variety of statistical techniques and applies these techniques to business problems.

**Prerequisite:** Admission to MBA program; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MIS 74013 NONPARAMETRIC AND ROBUST STATISTICS 3 Credit Hours**

(Slashed with MIS 64013) A presentation of statistically sound techniques for those who need to be able to use nonparametric or robust methods to deal with non-normal distributions or outliers (common problems) in their data.

**Prerequisite:** MIS 64005 or 74005; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MIS 74017 MULTIVARIATE STATISTICS 3 Credit Hours**

This course is devoted to a study of multivariate statistical methods. Topics include multivariate analysis of variance, canonical correlation, principal component analysis, discriminant analysis, cluster analysis and factor analysis.

**Prerequisite:** MIS 64023 or 74023; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MIS 74018 QUANTITATIVE MANAGEMENT MODELING 3 Credit Hours**

A variety of optimization and heuristic modeling techniques are explored. Decision-making environments, model selection, and interpretation are emphasized. Various linear and nonlinear mathematical programming techniques are the primary topic but are supplemented with other optimization and heuristic techniques.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MIS 74019 RESEARCH SEMINAR IN SUPPLY CHAIN MANAGEMENT 3 Credit Hours**

Research seminar designed primarily for students who seek an in-depth understanding of the current research literature in supply chain management and who are interested in doing research in supply chain management. Students study the academic literature with emphasis on the development and use of analytical tools and models to solve supply chain management problems. Specifically, the course will address quantitative modeling to support operational, tactical and strategic decision-making in supply chain management.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Seminar

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MIS 74020 ADVANCED STATISTICAL MODELS 3 Credit Hours**

This is a special focus course for which the topics will vary. It will generally include sampling techniques, experimental designs, similar statistical methods, internal and external validity, and reliability issues.

**Prerequisite:** MIS 64023 or 74023; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MIS 74023 LINEAR STATISTICAL MODELS AND APPLICATIONS 3 Credit Hours**

Models and applications of simple and multiple regression, correlation and analysis of variance.

**Prerequisite:** MIS 64005 or 74005; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MIS 74041 OPERATIONS MANAGEMENT 3 Credit Hours**

Develops a framework for analysis of operating problems. Uses computer quantitative and behavioral models to develop operating plans consistent with organizations' competitive (or service) strategy.

**Prerequisite:** MIS 64005 or 74005; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MIS 74042 GLOBALIZATION AND TECHNOLOGY STRATEGY 3 Credit Hours**

Focus is on the strategic issues around how a firm should manage its technology in a global market. Strategic issues include understanding the technological and competitive landscape, innovations, competitive advantages in the high-tech marketplace, outsourcing and information ethics. The core emphasis is on integrated decision-making in the age of globalization.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MIS 74047 MANUFACTURING TECHNOLOGY AND STRATEGY 3 Credit Hours**

This course provides the student with an introduction to modern techniques in manufacturing and the necessary strategic concepts to implement them. A similar discussion of service industries is also included.

**Prerequisite:** Doctoral standing; and special approval of instructor.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MIS 74080 EMERGING HARDWARE AND SOFTWARE TECHNOLOGIES 3 Credit Hours**

Investigation of selected emerging hardware and software technologies such as parallel processing systems, computer languages and operation systems, artificial intelligence, neural networks and chaos theory.

**Prerequisite:** Doctoral standing; and special approval of instructor.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MIS 74081 DATA COMMUNICATIONS AND NETWORKING IN BUSINESS 3 Credit Hours**

An introduction to telecommunications and computer networks. Topics include telecommunications technologies and services, communication standards and protocols, local area networks and network management.

**Prerequisite:** Doctoral standing; and special approval of instructor.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MIS 74082 DATABASE MANAGEMENT AND DATABASE ANALYTICS 3 Credit Hours**

The design, implementation and management of database management systems within organizations are studied from an applied perspective. Additional emphases include data warehousing, structured query language for analytics, and introductions to NoSQL databases and big data analytics.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MIS 74160 LEADERSHIP AND ORGANIZATIONAL CHANGE 3 Credit Hours**

(Slashed with MIS 641 60) Develop understanding of the theories and techniques needed for the successful management of significant organizational change with emphasis on discussion, exercises and case studies.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MIS 74185 BUSINESS STRATEGY 3 Credit Hours**

Integrative approach to the study of policy formulation and implementation. Formalized planning systems reviewed case analysis of actual business situations helps student further develop analytical and communication skills.

**Prerequisite:** Doctoral approval; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MIS 74263 EMPLOYEE SELECTION AND APPRAISAL 3 Credit Hours**

This course will focus primarily on issues associated with the person/job matching process in modern organizations related to the selection and appraisal of employees.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MIS 74270 ORGANIZATIONAL ANALYSIS 3 Credit Hours**

Theoretical basis and research findings are discussed, permitting the student to analyze and understand complex work organizations. Data provided prepares the student to analyze, design and solve organizational problems within the work environment.

**Prerequisite:** Doctoral standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MIS 74275 STRATEGIC GLOBAL MANAGEMENT 3 Credit Hours**

Strategic global management explores micro-level concepts and strategic managerial alternatives within the context of current global business operations in the political, economic and cultural environment facing today's manager.

**Prerequisite:** Doctoral standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter



**MIS 84007 PHILOSOPHY OF SCIENCE AND BUSINESS MODELS 3 Credit Hours**

Introductory seminar for understanding the forms and the process of business research. Its major objective is to help seminar participants understand the various philosophies that drive business research in an academic community, and introductory methods of social science research. Additionally, the seminar seeks to develop participant motivation to become a contributor to the organizational sciences communities by examining: 1. The research process, methodologies and strategies. 2. Research Paradigms, Modes and Contexts of Inquiry. 3. The nature of organizational sciences research. 4. The major streams of business research. 5. Understanding ontological choice of constructs and defining epistemic relationships between constructs. 6. Building hypotheses and socio-technical models. 7. Research design, data requirements and collection techniques, ethics and philosophies.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MIS 84011 SYSTEMS SIMULATION 3 Credit Hours**

Techniques and applications of computer simulation of existing or proposed real-world systems. Use of simulation language, simulation studies, analysis of interpretation and of results.

**Prerequisite:** Doctoral standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MIS 84012 SCHEDULING AND PLANNING 3 Credit Hours**

Course is a doctoral seminar on scheduling and planning models that are used in operations and production management. The goal is to expose students to a portfolio of scheduling and planning models to stimulate research ideas in scheduling and planning models that will lead to the development of a research program for your doctoral research.

**Prerequisite:** Doctoral standing in the college of business administration.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MIS 84015 STOCHASTIC MODELS 3 Credit Hours**

Mathematical modeling of systems involving one or more random variables, and stochastic processes: basic probability theory; Poisson process, Markov chain and Markov process with applications to production, inventory, reliability and queueing systems.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MIS 84023 LINEAR STATISTICAL MODELS 3 Credit Hours**

Linear statistical models for regression and analysis of variance.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MIS 84045 SOCIAL ISSUES IN INFORMATION SYSTEMS 3 Credit Hours**

Social issues in information systems arise at the interface between information systems and individuals, groups and society. The course will begin with a broad exposure to current social issues, moving to an examination of specific issues in detail with issues chosen by student interest and instructor consent.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MIS 84047 VALUE AND SUPPLY CHAIN MANAGEMENT 3 Credit Hours**

This course is a doctoral seminar for students who seek an in-depth understanding of the current research literature in supply chain management. The seminar is designed into three modules. The first module covers the conceptual foundation for understanding value and supply chains from an interdisciplinary perspective. The second module focuses on the basis of supply chain modeling using optimization and simulation. The third module serves to integrate the previous modules with the objective of the student producing a research paper for journal submission.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MIS 84080 INNOVATION, ADOPTION, DIFFUSION 3 Credit Hours**

Provides students with theoretical foundations of adoption and diffusion of technological innovations in organizations and society. Topics include: determinants of organizational innovation by acquisition; individual- and organizational-level technology adoption; diffusion of technologies through social systems; and the infusion and assimilation of technologies in organizations.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MIS 84081 INFORMATION SYSTEMS STRATEGY AND INNOVATION 3 Credit Hours**

This course explores the basis of strategy, deployment and competition in high- technology industries. It introduces conceptual frameworks based on cutting-edge research in economics and strategy. The frameworks may seem abstract at first, but we will focus on mastering them will gain an in-depth understanding of how high-technology industries work and how to develop strategies for managing firms in such industries. Students will learn how to develop and apply such frameworks in their research.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MIS 84082 DATABASE MANAGEMENT SYSTEMS 3 Credit Hours**

In-depth investigation of intelligent database management systems in support of business decision- making. An understanding of relational databases is assumed. Object-orientation and other advanced database concepts will be explored.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MIS 84108 ACQUIRING HUMAN RESOURCES 3 Credit Hours**

Course provides foundation for understanding issues related to the acquisition of human resources in an organization. Students will learn issues related to employment law, job analysis, job design, planning, recruitment, selection.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MIS 84112 RESEARCH METHODOLOGY 3 Credit Hours**

The objectives of this course are: to formulate a research problem and develop testable research hypotheses; develop research skills by learning the different research methods and techniques; explain information contained in research statistical outputs such as SAS and SPSS enable students to conduct meaningful and high quality research in their specific field of interest.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MIS 84261 STRATEGIC DECISION-MAKING AND HUMAN RESOURCE MANAGEMENT 3 Credit Hours**

Provides a first graduate-level introduction to the fundamental concepts of HRM/OB and strategic decision-making.

**Prerequisite:** Doctoral standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MIS 84262 THEORY OF THE FIRM 3 Credit Hours**

Course focuses on developing a deep understanding of modern strategic theory in relation to other allied fields. Students will review fundamental concepts of strategic thinking and theory development and then move to contemporary theoretical issues including transaction-cost economics, the resource-based view, the emerging theories of real options and of dynamic capabilities, strategic optimization and constraint theory, and dealing with uncertainty through scenario-driven planning.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MIS 84263 OPTIMIZING HUMAN RESOURCES 3 Credit Hours**

Students learn areas of human resources management that include training and development, performance management, compensation and retention or turnover.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MIS 84266 STATISTICS FOR MANAGEMENT 3 Credit Hours**

Survey of the leading writers and research studies in the area of management systems. The course addresses methodologies, major theoretical developments and practical applications.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MIS 84275 THEORETICAL AND EMPIRICAL GLOBAL STRATEGY 3 Credit Hours**

Focuses on review and integration of the several streams of literature dealing with strategy for, and management of, the product-diversified and/or internationally-diversified firm. Also, in order to complement the emphasis of other doctoral offerings on strategy formulation topics, this seminar places a special emphasis on strategy process, organizational structure, and administrative mechanisms. In particular, it explores the foundations as well as current research on corporate governance, broadly define. This includes (I) the set of mechanisms available to align the interest of top managers to those of shareowners, as well as (II) the mechanisms available to motivate and control middle managers so that their decisions and behaviors are aligned with intended corporate and/or international strategy and goals.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MIS 84277 ORGANIZATIONAL BEHAVIOR AND THEORY 3 Credit Hours**

An examination of theory and research on individual and group behavior in organizations. Special attention is given to theories of motivation, job satisfaction, goal setting, task design, feedback systems, group dynamics, power and teams.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MIS 84285 TECHNOLOGY AND INNOVATION STRATEGY 3 Credit Hours**

Covers topics pertaining to innovation management at micro-level (entrepreneurship, corporate entrepreneurship), meso-level (networks), and macro-level (cross-country and within-country comparisons).

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MIS 84291 SEMINAR IN MANAGEMENT SYSTEMS 3 Credit Hours**

(Repeatable for credit) Intensive investigation of selected topics in organization and strategic management. Student will be expected to undertake research on a topic determined in joint consultation with the instructor.

**Prerequisite:** Doctoral standing; and special approval of instructor.

**Schedule Type:** Seminar

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

## Business - Minor

### College of Business Administration

Department of Management and Information Systems

A432 Business Administration Building

Kent Campus

330-672-1140

[mis@kent.edu](mailto:mis@kent.edu)

[www.kent.edu/business/mis](http://www.kent.edu/business/mis)

## Description

The Business minor provides students with exposure to a basic business core and helps them gain an overview of the world of business while pursuing a degree in another field.

### Fully Offered At:

- Ashtabula Campus
- Geauga Campus
- Kent Campus
- Salem Campus
- Stark Campus
- Trumbull Campus
- Tuscarawas Campus

## Admission Requirements

Admission to a minor is open to students declared in a bachelor's degree, the A.A.B. or A.A.S. degree or the A.T.S. degree (not Individualized Program major). Students declared only in the A.A. or A.S. degree or the A.T.S. degree in Individualized Program may not declare a minor. Students may not pursue a minor and a major in the same discipline.

To declare the Business minor, students must have a minimum 2.500 overall Kent State University GPA. No Kent State University GPA is required if the student is a first-semester freshman or transfer student admitted in good standing.

Students declared in a major in the College of Business Administration cannot declare the Business minor.

## Minor Requirements

Code	Title	Credit Hours
<b>Minor Requirements</b>		
ACCT 23020	INTRODUCTION TO FINANCIAL ACCOUNTING	3
CIS 24053	INTRODUCTION TO COMPUTER APPLICATIONS	3
ECON 22060	PRINCIPLES OF MICROECONOMICS (KSS)	3
ECON 22061	PRINCIPLES OF MACROECONOMICS (KSS)	3
FIN 36053	BUSINESS FINANCE	3
HRM 34180	HUMAN RESOURCE MANAGEMENT	3
or MGMT 34054	USING INFORMATION SYSTEMS FOR SOLVING BUSINESS PROBLEMS	
or MGMT 34165	DYNAMICS OF LEADERSHIP	
MGMT 24163	PRINCIPLES OF MANAGEMENT	3
MKTG 25010	PRINCIPLES OF MARKETING	3
Minimum Total Credit Hours:		24

## Graduation Requirement

Minimum Minor GPA	Minimum Overall GPA
2.500	

- Students are expected to satisfy course prerequisites for each course required in the minor. Prerequisites are not tied to a particular catalog; therefore it is important to look at the most current information about a course.

- It is recommended that students pursuing the Business minor take an analytics course (MGMT 24056) and an operations (MGMT 34060) course.
- Student may not pursue a minor and a major in the same discipline
- Minimum 6 credit hours in the minor must be upper-division coursework (30000 and 40000 level).
- Minimum 6 credit hours in the minor must be outside of the course requirements for any major or other minor the student is pursuing.
- Minimum 50 percent of the total credit hours for the minor must be taken at Kent State (in residence).

## Business Administration (Executive M.B.A.) - M.B.A.

### College of Business Administration

Department of Management and Information Systems  
A432 Business Administration Building  
Kent Campus  
330-672-1140  
mis@kent.edu  
www.kent.edu/business/mis

## Description

The Master of Business Administration degree for professionals (Executive M.B.A.) prepares students for leadership positions in regional, national and international organizations. Curricular and co-curricular emphases are on ethical leadership, teamwork, creative problem solving, global perspectives and skillful applications of information technology.

The Executive M.B.A. is a highly personalized and interactive educational experience. The program is structured such that students take all their classes together, study in teams and interact with senior business faculty. Professional development workshops and free career coaching are included in the program.

The program is offered in an accelerated delivery, with courses offered in seven-to-nine-week modules, and students being able to earn the degree in 19 months. Students enter the program in August, starting with a three-day overnight residency. After that, they meet once monthly on weekends for classes. A 10-day international business experience is included midway through the program, providing participants with an applied learning experience abroad.

### Fully Offered At:

- Kent Campus
- Independence, Ohio, Location

## Accreditation

AACSB International—The Association to Advance Collegiate Schools of Business

## Admission Requirements

- Bachelor's degree from an accredited college or university for unconditional admission

- Minimum 3.000 undergraduate GPA on a 4.000 point scale<sup>1</sup> for unconditional admission
- Official transcript(s)
- Résumé
- Seven years experience in a responsible position
- Goal statement
- Three forms of recommendation (effective Spring 2021, two forms of recommendation will be required)
- Interview with the Executive M.B.A. program director
- English language proficiency - all international students must provide proof of English language proficiency (unless they meet specific exceptions) by earning one of the following:
  - Minimum 550 TOEFL PBT score (paper-based version)
  - Minimum 79 TOEFL IBT score (internet-based version)
  - Minimum 77 MELAB score
  - Minimum 6.5 IELTS score
  - Minimum 58 PTE score
  - Minimum 110 Duolingo English Test score

For more information about graduate admissions, please visit the Graduate Studies admission website. For more information on international admissions, visit the Office of Global Education's admission website.

<sup>1</sup> Some applicants may be asked to take the GMAT in cases of an undergraduate GPA lower than a 3.000 or for other reasons.

## Program Learning Outcomes

Graduates from the program will be able to:

1. Identify the problem and select the appropriate tool(s) to resolve the problem.
2. Analyze the problem in order to come to a decision or conclusion.
3. Articulate their position and apply their ideas effectively in writing.
4. Articulate their position and apply their ideas orally.
5. Articulate their ideas collaboratively as part of a team and provide some meaningful contribution to the overall team effort.
6. Identify stakeholders related to ethical dilemmas and understand the difference between the ethical and legal aspects of the dilemma.
7. Identify alternatives and consequences regarding an ethical dilemma and support a course of action.
8. Identify global factors involved in making business decisions.
9. Prioritize and analyze alternatives and consequences related to global factors and support a strategic decision in a global business context.

## Program Requirements

### Major Requirements

Code	Title	Credit Hours
<b>Major Requirements</b>		
EMBA 67021	GLOBAL CONDITIONS AND MACROECONOMIC POLICY-EMBA	2
EMBA 67022	MANAGERIAL ECONOMICS-EMBA	2
EMBA 67031	FINANCIAL ACCOUNTING-EMBA	2

EMBA 67032	ACCOUNTING INFORMATION FOR EXECUTIVES-EMBA	2
EMBA 67040	OPERATIONS MANAGEMENT-EMBA	2
EMBA 67041	APPLIED STATISTICAL ANALYSIS-EMBA	2
EMBA 67042	GLOBALIZATION AND TECHNOLOGY STRATEGY-EMBA	2
EMBA 67043	DYNAMICS OF LEADERSHIP FOR EXECUTIVES-EMBA	2
EMBA 67051	MARKETING MANAGEMENT-EMBA	2
EMBA 67061	FINANCIAL PLANNING AND STRATEGY-EMBA	2
EMBA 67062	MONEY AND CAPITAL MARKETS-EMBA	2
EMBA 67071	HUMAN RESOURCE MANAGEMENT-EMBA	2
EMBA 67082	LEGAL AND SOCIAL IMPACT ON MANAGERIAL DECISION-MAKING-EMBA	2
EMBA 67085	EXECUTIVE POLICIES AND PLANNING-EMBA	2
EMBA 67091	SEMINAR IN EXECUTIVE SKILLS DEVELOPMENT-EMBA (course is repeatable)	4

Minimum Total Credit Hours:

32

## Business Administration - M.B.A.

### College of Business Administration

Department of Management and Information Systems  
A432 Business Administration Building  
Kent Campus  
330-672-1140  
mis@kent.edu  
www.kent.edu/business/mis

## Description

### Admission to the Information Systems and Supply Chain Management concentrations have been temporarily suspended as of fall 2020.

The Master of Business Administration degree prepares students for responsible leadership positions in public, private and nonprofit organizations. Regardless of their undergraduate education, students will find a challenging program designed to meet their specific backgrounds and needs.

The degree is structured for full-time and online students:

- The full-time program is targeted to early career professionals, both national and international, who wish to jump-start their business career, and to those who wish to make a business-related career change. The program operates in cohorts so that students proceed through the sequence of required courses as a group. Students take six to seven courses a semester (offered in eight-week modules) and are expected to participate in experiential activities such as internships, mentoring and case competitions. Delivery of the program is accelerated; students will be able to earn the M.B.A. degree in 12 to 16 months.
- The online program is designed for working professionals who intend to keep working full-time while pursuing the M.B.A. The program is offered fully online for students selecting specific optional concentrations.

The Business Administration major includes the following optional concentrations:

- The **Accounting** concentration allows students to specialize their degree with courses in managerial and financial accounting, business

valuation using financial statements and international accounting. Completion of this concentration is not sufficient to sit for the CPA exam in Ohio unless the student has an undergraduate accounting major.

- The **Business Analytics** concentration allows students to gain the technical, analytical, communication, decision-making and leadership skills needed to glean useful information from data to make strategic business decisions.
- The **Economics** concentration allows students to specialize their degree with advanced topics in various areas in economics.
- The **Finance** concentration allows students to specialize their degree with advanced courses in investments, financial markets and institutions, real estate and other related areas.
- The **Human Resource Management** concentration allows students to specialize their degree with advanced topics in employee selection and appraisal, organizational analysis and the opportunity for real-world applications.
- The **Information Systems** concentration allows students to specialize their degree with advanced topics in database management systems, emerging hardware and software technology and other related area courses.
- The **International Business** concentration allows students to specialize their degree with courses in accounting, marketing, finance and strategy with an international focus. Study abroad options are possible, with no language skills required.
- The **Supply Chain Management** concentration allows students to specialize their degree in vendor-customer relationships and logistic matters, with courses in global supply chain management, supply chain business models and vendor management strategies.

Students have the opportunity to complete a combined degree program with the D.P.M degree in Podiatric Medicine and the M.B.A. degree in Business Administration. A separate application must be submitted for each program. Students can view admission requirements for each program on their respective catalog page.

Several dual degree programs with the M.B.A. degree are possible, including the following.

- **Dual Degree with the Master of Arts degree in Translation** is designed for linguists. By combining the practices and language of business, students can pursue language-based careers in the private, public and governmental sectors.
- **Dual Degree with the Master of Architecture degree** is designed for architects or undergraduate architectural students whose career goals include assuming middle or executive management positions in architectural practices, or who are interested in starting their own businesses.
- **Dual Degree with the Master of Library and Information Science degree** is designed for managers of large libraries and information centers. Individuals in these positions need knowledge pertaining to planning, organizing, staffing, directing and controlling. Advanced education to obtain knowledge and learn skills related to these management functions enables students to take advantage of career opportunities both in library settings and other information settings, both in the profit and nonprofit sectors.
- **Dual Degree with the Master of Science in Nursing degree** is designed for experienced nurses whose career goals include assuming middle or executive management positions in health services agencies or in health-related companies, or who are interested in starting their own business. It combines the strengths of advanced nursing

preparation with the practical management knowledge needed to develop significant leadership capabilities.

- **Dual Degree with the Master of Arts degree in Communication Studies** is designed for students and professionals whose career goals focus on communication, particularly global communication, and provides direction and leadership in economic and business development processes.

### Fully Offered At:

- Online (part-time program only with optional concentrations Business Analytics, International Business and Supply Chain Management )
- Kent Campus (full-time only for all concentrations)

## Accreditation

AACSB International - The Association to Advance Collegiate Schools of Business

## Admission Requirements

- Bachelor's degree from an accredited college or university for unconditional admission
- Minimum 3.000 undergraduate GPA on a 4.000 point scale for unconditional admission
- Official transcripts
- GMAT or GRE scores
- Résumé
- Goal statement
- Two-to-three letters of recommendation
- English language proficiency - all international students must provide proof of English language proficiency (unless they meet specific exceptions) by earning one of the following:
  - Minimum 550 TOEFL PBT score (paper-based version)
  - Minimum 79 TOEFL IBT score (internet-based version)
  - Minimum 77 MELAB score
  - Minimum 6.5 IELTS score
  - Minimum 58 PTE score
  - Minimum 110 Duolingo English Test score

For the full-time options: Admission to the full-time Master of Business Administration program is in the fall semester only. For more information about graduate admissions, please visit the Graduate Studies admission website. For more information on international admission, visit the Office of Global Education's admission website.

## Program Learning Outcomes

Graduates of this program will be able to:

1. Identify the problem and select the appropriate tool(s) to resolve the problem.
2. Analyze the problem in order to come to a decision or conclusion.
3. Articulate their position and apply their ideas effectively in writing.
4. Articulate their position and apply their ideas orally.
5. Articulate their ideas collaboratively as part of a team and provide some meaningful contribution to the overall team effort.
6. Identify stakeholders related to ethical dilemmas and understand the difference between the ethical and legal aspects of the dilemma.



7. Identify alternatives and consequences regarding an ethical dilemma and support a course of action.
8. Identify global factors involved in making business decisions.
9. Prioritize and analyze alternatives and consequences related to global factors and support a strategic decision in a global business context.

## Program Requirements

### Major Requirements

Code	Title	Credit Hours
<b>Major Requirements</b>		
ACCT 63037	FINANCIAL ACCOUNTING FOR DECISION MAKING	2
ACCT 63038	MANAGERIAL ACCOUNTING FOR DECISION MAKING	2
ECON 62021	GLOBAL CONDITIONS AND MACROECONOMICS POLICY	2
ECON 62022	MANAGERIAL ECONOMICS	2
FIN 66050	LAW AND ETHICS	2
FIN 66060	MANAGERIAL FINANCE	2
MIS 64005	ANALYTICS FOR DECISION MAKING	2
MIS 64041	OPERATIONS, SERVICE AND SUPPLY CHAIN MANAGEMENT	2
MIS 64042	GLOBALIZATION AND TECHNOLOGY STRATEGY	2
MIS 64158	LEADERSHIP AND MANAGERIAL ASSESSMENT	2
MIS 64271	HUMAN RESOURCE MANAGEMENT	2
MIS 68051	BUSINESS PROFESSIONAL DEVELOPMENT I	1
MKTG 65051	MARKETING MANAGEMENT	2
<i>Capstone Requirement</i>		
MIS 64185	BUSINESS STRATEGY	3
<b>Additional Requirements or Concentrations</b>		
Choose from the following:		9
Additional Requirements for Students Not Declaring a Concentration		
Accounting Concentration		
Business Analytics Concentration		
Economics Concentration		
Finance Concentration		
Human Resource Management Concentration		
Information Systems Concentration		
International Business Concentration		
Supply Chain Management Concentration		
Minimum Total Credit Hours:		37

### Additional Requirements for Students Not Declaring a Concentration

Code	Title	Credit Hours
<b>Major Requirements</b>		
Electives <sup>1</sup>		9
Minimum Total Credit Hours:		9

- <sup>1</sup> Students may select courses from all concentrations and are not required to concentrate in any one area, although they are strongly encouraged to do so.

### Accounting Concentration Requirements

Code	Title	Credit Hours
<b>Concentration Requirements</b>		
Concentration Electives, choose from the following:		9
ACCT 53013	ADVANCED MANAGEMENT ACCOUNTING	
ACCT 53014	ADVANCED ACCOUNTING SYSTEMS	
ACCT 53034	NONPROFIT ACCOUNTING AUDITING	
ACCT 63025	ANALYSIS AND VALUATION OF BUSINESS USING FINANCIAL STATEMENTS	
ACCT 63030	INTERNATIONAL ACCOUNTING	
ACCT 63032	ACCOUNTING THEORY, HISTORY AND INSTITUTIONS	
Minimum Total Credit Hours:		9

### Business Analytics Concentration Requirements

Code	Title	Credit Hours
<b>Concentration Requirements</b>		
MIS 64036	BUSINESS ANALYTICS	3
MIS 64037	ADVANCED DATA MINING AND PREDICTIVE ANALYTICS	3
or MIS 64038	ANALYTICS IN PRACTICE	
MIS 64082	DATABASE MANAGEMENT AND DATABASE ANALYTICS	3
Minimum Total Credit Hours:		9

### Economics Concentration Requirements

Code	Title	Credit Hours
<b>Concentration Requirements</b>		
Concentration Electives, choose from the following (minimum two courses from one category):		9
<i>Econometrics</i>		
ECON 62054	ECONOMETRICS I	
ECON 62055	ECONOMETRICS II	
ECON 62056	TIME SERIES ANALYSIS	
<i>International</i>		
ECON 52076	ECONOMIC DEVELOPMENT	
ECON 62075	INTERNATIONAL TRADE	
ECON 62076	INTERNATIONAL FINANCE	
ECON 62077	ECONOMIC PROBLEMS OF DEVELOPING AREAS	
<i>Macroeconomics</i>		
ECON 52065	PROBLEMS OF MONETARY AND FISCAL POLICY	
ECON 62051	MACROECONOMIC THEORY I	
ECON 62061	MONETARY THEORY AND POLICY	
<i>Microeconomics</i>		
ECON 52068	INDUSTRIAL ORGANIZATION: FIRMS AND STRATEGY	
ECON 52081	URBAN ECONOMICS: CITIES AND HOUSING	
ECON 52085	PUBLIC ECONOMICS: GOVERNMENT AND POLICY	
ECON 52086	ECONOMICS OF HEALTH CARE	

ECON 62050	MICROECONOMIC THEORY I
ECON 62072	ECONOMICS OF LABOR MARKETS
Economics Electives (ECON 50000 or 60000 level), except ECON 62010, ECON 62015, ECON 62021 and ECON 62022, with economics faculty advisor approval	

Minimum Total Credit Hours: 9

## Finance Concentration Requirements

Code	Title	Credit Hours
<b>Concentration Requirements</b>		
Finance (FIN) Electives 9		

## Human Resource Management Concentration Requirements

Code	Title	Credit Hours
<b>Concentration Requirements</b>		
Concentration Electives, choose from the following: 9		
MIS 54091	SEMINAR IN HUMAN RESOURCE MANAGEMENT	
MIS 54183	DEVELOPMENT AND TRAINING HUMAN RESOURCES IN ORGANIZATIONS	
MIS 54185	STAFFING HUMAN RESOURCES	
MIS 54445	GLOBAL HUMAN RESOURCE MANAGEMENT	
Minimum Total Credit Hours: 9		

## Information Systems Concentration Requirements

Code	Title	Credit Hours
<b>Concentration Requirements</b>		
Concentration Electives, choose from the following: 9		
MIS 64011	SYSTEMS SIMULATION	
MIS 64080	EMERGING HARDWARE AND SOFTWARE TECHNOLOGIES	
MIS 64081	DATA COMMUNICATIONS AND NETWORKING IN BUSINESS	
MIS 64082	DATABASE MANAGEMENT AND DATABASE ANALYTICS	
Minimum Total Credit Hours: 9		

## International Business Concentration Requirements

Code	Title	Credit Hours
<b>Concentration Requirements</b>		
Concentration Electives, choose from the following: 9		
ACCT 63030	INTERNATIONAL ACCOUNTING	
ECON 62076	INTERNATIONAL FINANCE	
MIS 64026	GLOBAL SUPPLY CHAIN MANAGEMENT AND SUSTAINABLE STRATEGIES	
MIS 64275	STRATEGIC GLOBAL MANAGEMENT	
MKTG 65054	INTERNATIONAL MARKETING	
MKTG 65184	INTERNATIONAL BUSINESS	
Minimum Total Credit Hours: 9		

## Supply Chain Management Concentration Requirements

Code	Title	Credit Hours
<b>Concentration Requirements</b>		
MIS 64026	GLOBAL SUPPLY CHAIN MANAGEMENT AND SUSTAINABLE STRATEGIES	3
MIS 64028	GLOBAL SUPPLY CHAIN BUSINESS MODELS	3
MIS 64029	SUPPLY CHAIN AND VENDOR MANAGEMENT STRATEGIES	3
Minimum Total Credit Hours: 9		

## Graduation Requirements

The College of Business Administration will permit the waiving of M.B.A. coursework if supported by the appropriate and recent undergraduate coursework. The waiver of each specific course will be determined by the relevant academic department (Accounting, Economics, Finance, Management and Information Systems and Marketing and Entrepreneurship). Students may graduate with the M.B.A. degree with fewer than 37 total credit hours but no fewer than 30 total credit hours.

## Dual Degree with M.A. degree in Communication Studies

Students have the opportunity to complete a dual degree program with the M.A. degree in Communication Studies and the M.B.A. degree in Business Administration. A separate application must be submitted for each program. Students can view admission requirements for each program on their respective catalog page.

The dual M.A./M.B.A. degree program is designed for students and professionals whose career goals focus on communication, particularly global communication, and provides direction and leadership in economic and business development processes.

## Dual Degree Requirements

Code	Title	Credit Hours
<b>Major Requirements</b>		
ACCT 63037	FINANCIAL ACCOUNTING FOR DECISION MAKING	2
ACCT 63038	MANAGERIAL ACCOUNTING FOR DECISION MAKING	2
COMM 65000	FOUNDATIONS OF COMMUNICATION INQUIRY	3
COMM 65652	THEORIES OF COMMUNICATION	3
COMM 65851	ORGANIZATIONAL COMMUNICATION	3
COMM 65020	QUANTITATIVE RESEARCH METHODS IN COMMUNICATION	2-3
or MIS 64005	ANALYTICS FOR DECISION MAKING	
ECON 62021	GLOBAL CONDITIONS AND MACROECONOMICS POLICY	2
ECON 62022	MANAGERIAL ECONOMICS	2
FIN 66050	LAW AND ETHICS	2
FIN 66060	MANAGERIAL FINANCE	2
MIS 64041	OPERATIONS, SERVICE AND SUPPLY CHAIN MANAGEMENT	2
MIS 64042	GLOBALIZATION AND TECHNOLOGY STRATEGY	2
MIS 64185	BUSINESS STRATEGY	3
MIS 64271	HUMAN RESOURCE MANAGEMENT	2

MIS 68051	BUSINESS PROFESSIONAL DEVELOPMENT I	1
MKTG 65051	MARKETING MANAGEMENT	2
Business Elective		6-7
Communication Studies (COMM) Electives, choose from the following options:		18
<i>Thesis Option</i>		
COMM 60199	THESIS I	
Communication Studies (COMM) Electives		
<i>Coursework Only Option</i>		
Communication Studies (COMM) Electives		
<i>Project Option</i>		
COMM 61198	MASTERS PROJECT IN COMMUNICATION STUDIES	
Communication Studies (COMM) Electives		
<i>Internship Option</i>		
COMM 64092	MASTERS INTERNSHIP IN COMMUNICATION STUDIES	
Communication Studies (COMM) Electives		

Minimum Total Credit Hours: 60

## Dual Degree with M.A. degree in Translation

Students have the opportunity to complete a dual degree program with the M.A. degree in Translation and the M.B.A. degree in Business Administration. A separate application must be submitted for each program. Students can view admission requirements for each program on their respective catalog page.

The Dual Degree with a M.B.A. degree in Business Administration and the M.A. degree in Translation is for students with a sufficient level of proficiency in a foreign language who wish to integrate a graduate business education with advanced translation training. This program is suitable for those whose career goals include assuming middle or executive management positions in international business or language industry enterprises or those interested in starting their own business in the language services industry.

### Dual Degree Requirements

Code	Title	Credit Hours
<b>Major Requirements</b>		
ACCT 63037	FINANCIAL ACCOUNTING FOR DECISION MAKING	2
ACCT 63038	MANAGERIAL ACCOUNTING FOR DECISION MAKING	2
ECON 62021	GLOBAL CONDITIONS AND MACROECONOMICS POLICY	2
ECON 62022	MANAGERIAL ECONOMICS	2
FIN 66050	LAW AND ETHICS	2
FIN 66060	MANAGERIAL FINANCE	2
MIS 64005	ANALYTICS FOR DECISION MAKING	2
MIS 64041	OPERATIONS, SERVICE AND SUPPLY CHAIN MANAGEMENT	2
MIS 64158	LEADERSHIP AND MANAGERIAL ASSESSMENT	2
MIS 64185	BUSINESS STRATEGY <sup>1</sup>	3
MIS 68051	BUSINESS PROFESSIONAL DEVELOPMENT I	1
MKTG 65051	MARKETING MANAGEMENT	2
TRST 60001	GRADUATE RESEARCH AND WRITING IN TRANSLATION STUDIES	3

TRST 60010	THEORY OF TRANSLATION AND INTERPRETING	2
TRST 60011	TERMINOLOGY AND COMPUTER APPLICATIONS IN TRANSLATION	3
TRST 60012	SOFTWARE LOCALIZATION	3
Second Language, Culture or other approved courses (3 credit hours if a culture or appropriate language course is used for International Elective below)		3-6
<b>International Electives</b>		
Translation, choose from the following:		2
FR 63010	THE PRACTICE OF FRENCH TRANSLATION	
GER 61010	THE PRACTICE OF GERMAN TRANSLATION	
JAPN 65010	THE PRACTICE OF JAPANESE TRANSLATION	
RUSS 62010	THE PRACTICE OF RUSSIAN TRANSLATION	
SPAN 68010	THE PRACTICE OF SPANISH TRANSLATION	
Commercial, Legal and Diplomatic Translation, choose from the following:		3
FR 63250	COMMERCIAL, LEGAL AND DIPLOMATIC TRANSLATION	
GER 61250	COMMERCIAL, LEGAL AND DIPLOMATIC TRANSLATION	
JAPN 65250	COMMERCIAL, LEGAL AND DIPLOMATIC TRANSLATION	
RUSS 62250	COMMERCIAL, LEGAL AND DIPLOMATIC TRANSLATION	
SPAN 68250	COMMERCIAL, LEGAL AND DIPLOMATIC TRANSLATION	
Scientific, Technical and Medical Translation, choose from the following:		3
FR 63251	SCIENTIFIC, TECHNICAL AND MEDICAL TRANSLATION	
GER 61251	SCIENTIFIC, TECHNICAL AND MEDICAL TRANSLATION	
JAPN 65251	SCIENTIFIC, TECHNICAL AND MEDICAL TRANSLATION	
RUSS 62251	SCIENTIFIC, TECHNICAL AND MEDICAL TRANSLATION	
SPAN 68251	SCIENTIFIC, TECHNICAL AND MEDICAL TRANSLATION	
Case Study in Translation, choose from the following:		3
FR 63979	CASE STUDY IN TRANSLATION	
GER 61979	CASE STUDY IN TRANSLATION	
JAPN 65979	CASE STUDY IN TRANSLATION	
RUSS 62979	CASE STUDY IN TRANSLATION	
SPAN 68979	CASE STUDY IN TRANSLATION	
Additional Business or Translation Electives, choose from the following:		12
MIS 64042	GLOBALIZATION AND TECHNOLOGY STRATEGY	
or TRST 60012	SOFTWARE LOCALIZATION	
MIS 64271	HUMAN RESOURCE MANAGEMENT	
or TRST 60013	LANGUAGE PROJECT MANAGEMENT	
MCLS elective <sup>2</sup>		
Business electives		
International elective (either unit)		

Minimum Total Credit Hours: 61

<sup>1</sup> Or approved substitute including study abroad

<sup>2</sup> Minimum 3 credits must be taken from MCLS

## Graduation Requirements

- Students in the M.A. Translation and M.B.A dual degree program must earn a total of 61-64 credit hours. There is a minimum requirement of 31-33 credit hours from the M.B.A. program and 30-33 credit hours from the M.A. in Translation. A minimum GPA of 3.0 must be maintained.
- The M.B.A. program should be initiated before 12 credit hours in the M.A. Translation program have been completed. The M.A. in Translation is awarded upon completion of the requirements of that degree. The M.B.A. is awarded upon completion of the joint M.B.A./M.A. Translation degree program.
- Actual offerings and schedules vary from year to year and MCLS and COBA jointly provide a pre-approved recommended course of study. Students who wish to take a different course of study need to obtain separate approvals from the MCLS and COBA graduate coordinators.

## Dual Degree with M.Arch. degree in Architecture

Students have the opportunity to complete a dual degree program with the M.Arch. degree in Architecture and the M.B.A. degree in Business Administration. A separate application must be submitted for each program. Students can view admission requirements for each program on their respective catalog page.

The dual degree combining a Master of Architecture (M.Arch.) with a Master of Business Administration (M.B.A.) is designed for architects or undergraduate architectural students who aspire to middle or executive management positions in architectural practices, or who are interested in starting their own business along with the preparation to enter the profession of architecture by stimulating the growth of technical knowledge and design creativity. It fosters the refinement of design skills acquired in undergraduate programs, also by offering a broad exposure to professional issues and knowledge.

## Dual Degree Requirements

Code	Title	Credit Hours
<b>Major Requirements</b>		
ACCT 63037	FINANCIAL ACCOUNTING FOR DECISION MAKING	2
ACCT 63038	MANAGERIAL ACCOUNTING FOR DECISION MAKING	2
ARCH 60101	GRADUATE DESIGN STUDIO I	6
ARCH 60102	GRADUATE DESIGN STUDIO II	4
ARCH 60103	GRADUATE DESIGN STUDIO III	9
ARCH 60150	PROJECT PROGRAMMING	3
ARCH 60301	THEORIES OF ARCHITECTURE	3
ARCH 60922	METHODS OF INQUIRY IN ARCHITECTURAL STUDIES	2
ARCH 65001	PROFESSIONAL PRACTICE: REAL ESTATE AND DEVELOPMENT	2
ARCH 65002	PROFESSIONAL PRACTICE: CONTRACT AND PLANNING LAW	2
ARCH 65003	PROFESSIONAL PRACTICE: LEADERSHIP, ETHICS AND OFFICE MANAGEMENT	3
ARCH 66995	SPECIAL TOPICS IN ARCHITECTURE <sup>1</sup>	1
ECON 62021	GLOBAL CONDITIONS AND MACROECONOMICS POLICY	2

ECON 62022	MANAGERIAL ECONOMICS	2
FIN 66060	MANAGERIAL FINANCE	2
MIS 64005	ANALYTICS FOR DECISION MAKING	2
MIS 64041	OPERATIONS, SERVICE AND SUPPLY CHAIN MANAGEMENT	2
MIS 64042	GLOBALIZATION AND TECHNOLOGY STRATEGY	2
MIS 64158	LEADERSHIP AND MANAGERIAL ASSESSMENT	2
MIS 64185	BUSINESS STRATEGY	3
MIS 64271	HUMAN RESOURCE MANAGEMENT	2
MIS 68051	BUSINESS PROFESSIONAL DEVELOPMENT I	1
MKTG 65051	MARKETING MANAGEMENT	2
Business Elective		3
Minimum Total Credit Hours:		64

<sup>1</sup> Topics in Professional Practice.

- Actual offerings and schedules vary from year to year and College of Architecture and Environmental Design (CAED) and College of Business Administration (COBA) will jointly provide a pre-approved recommended course of study. Students who wish to take a different course of study need to obtain separate approvals from CAED and COBA graduate coordinators. Contact the CAED graduate secretary for details on coursework registration.

## Graduation Requirements

Minimum of 64 credit hours, 35 from the M.Arch. program and 29 from the M.B.A. program.

## Dual Degree with M.L.I.S. degree in Library and Information Science

Students have the opportunity to complete a dual degree program with the M.B.A. degree in Business Administration and the M.L.I.S. degree in Library and Information Science. A separate application must be submitted for each program. Students can view admission requirements for each program on their respective catalog page.

At 61 credit hours for the dual degree, students receive an M.L.I.S.-M.B.A. dual-degree. The curriculum includes 24 credit hours of M.B.A. coursework, 25 credit hours of Library and Information Science courses and 12 credit hours from either business or library and Information science.

## Dual Degree Requirements

Code	Title	Credit Hours
<b>Major Requirements</b>		
ACCT 63037	FINANCIAL ACCOUNTING FOR DECISION MAKING	2
ACCT 63038	MANAGERIAL ACCOUNTING FOR DECISION MAKING	2
ECON 62021	GLOBAL CONDITIONS AND MACROECONOMICS POLICY	2
ECON 62022	MANAGERIAL ECONOMICS	2
FIN 66050	LAW AND ETHICS	2
FIN 66060	MANAGERIAL FINANCE	2
LIS 60010	THE INFORMATION LANDSCAPE	3
LIS 60020	INFORMATION ORGANIZATION	3

LIS 60030	PEOPLE IN THE INFORMATION ECOLOGY	3
LIS 60040	INFORMATION INSTITUTIONS AND PROFESSIONS	3
LIS 60050	RESEARCH AND ASSESSMENT IN LIBRARY AND INFORMATION SCIENCE	3
LIS 60092	MASTER'S INTERNSHIP IN LIBRARY AND INFORMATION SCIENCE	3
LIS 60280	MASTER'S PORTFOLIO IN LIBRARY AND INFORMATION SCIENCE	1
MIS 64041	OPERATIONS, SERVICE AND SUPPLY CHAIN MANAGEMENT	2
MIS 64158	LEADERSHIP AND MANAGERIAL ASSESSMENT	2
MIS 64185	BUSINESS STRATEGY	3
MKTG 65051	MARKETING MANAGEMENT	2
Business Elective, Any business graduate course in accordance to student's career goals may count as an elective. Recommended: ECON 62015		3
Business or Library and Information Science Elective, Minimum 3 credit hours must be from Library Science (LIS), choose from the following:		12
LIS 50645	DATABASE FUNDAMENTALS FOR INFORMATION PROFESSIONALS	
LIS 60641	INFORMATION STORAGE AND RETRIEVAL SYSTEMS	
LIS 61095	SELECTED TOPICS IN LIBRARY SCIENCE	
MIS 64005	ANALYTICS FOR DECISION MAKING	
MIS 64042	GLOBALIZATION AND TECHNOLOGY STRATEGY	
MIS 64271	HUMAN RESOURCE MANAGEMENT	
Library and Information Science Electives, Any Library Science (LIS) graduate course in accord to student's career goals may count as an elective		
Recommended, choose from the following:		6-9
LIS 60608	THE PUBLIC LIBRARY	
LIS 60609	MARKETING THE LIBRARY	
LIS 60615	THE ACADEMIC LIBRARY	
LIS 60616	THE SPECIAL LIBRARY	
LIS 60623	BUSINESS/FINANCE INFORMATION SOURCES AND SERVICES	
LIS 60643	ONLINE INFORMATION SYSTEMS	
LIS 60652	FOUNDATIONS OF RECORDKEEPING IN SOCIETY	
LIS 60700	FOUNDATIONS OF MUSEUM STUDIES	
LIS 61095	SELECTED TOPICS IN LIBRARY SCIENCE	

Minimum Total Credit Hours: 61

## Dual Degree with M.S.N. degree in Nursing

Student have the opportunity to complete a dual degree program with the M.B.A. degree in Business Administration and the M.S.N degree in Nursing. A separate application must be submitted for each program. Students can view admission requirements for each program on their respective catalog page.

The dual degree is for experienced nurses whose career goals include assuming middle or executive management positions in health services agencies or in health-related companies, or who are interested in starting their own businesses. It combines the strengths of advanced nursing

preparation with the practical management knowledge needed to develop significant leadership capabilities.

## Dual Degree Requirements

Code	Title	Credit Hours
<b>Major Requirements</b>		
ACCT 63037	FINANCIAL ACCOUNTING FOR DECISION MAKING	2
ACCT 63038	MANAGERIAL ACCOUNTING FOR DECISION MAKING	2
ECON 52086	ECONOMICS OF HEALTH CARE	2-3
or ECON 62022	MANAGERIAL ECONOMICS	
ECON 62021	GLOBAL CONDITIONS AND MACROECONOMICS POLICY	2
FIN 66050	LAW AND ETHICS	2
or NURS 60020	LEGAL AND REGULATORY MANAGEMENT FOR NURSE ADMINISTRATORS	
FIN 66060	MANAGERIAL FINANCE	2
MIS 64005	ANALYTICS FOR DECISION MAKING	2
MIS 64041	OPERATIONS, SERVICE AND SUPPLY CHAIN MANAGEMENT	2
MIS 64158	LEADERSHIP AND MANAGERIAL ASSESSMENT	2
or NURS 60014	LEADERSHIP IN NURSING AND HEALTH CARE MANAGEMENT	
MIS 64185	BUSINESS STRATEGY	3
MIS 64270	ORGANZATIONAL ANALYSIS AND DESIGN	3
MIS 64271	HUMAN RESOURCE MANAGEMENT	2
MIS 68051	BUSINESS PROFESSIONAL DEVELOPMENT I	1
MKTG 65051	MARKETING MANAGEMENT	2
NURS 60010	ADVANCED NURSING INFORMATICS	3
NURS 60024	HEALTH CARE ORGANIZATION STRUCTURE AND BEHAVIOR	3
NURS 60025	HEALTH POLICY AND ADVANCED NURSING PRACTICE	3
NURS 60101	THEORETICAL BASIS FOR NURSING PRACTICE I	3
NURS 60403	METHODS OF INQUIRY	3
NURS 64002	PROGRAM DEVELOPMENT AND EVALUATION FOR NURSE ADMINISTRATORS	3
NURS 64202	NURSING ADMINISTRATION AND HEALTH SYSTEMS LEADERSHIP I SEMINAR	2
NURS 64292	NURSING ADMINISTRATION AND HEALTH SYSTEMS LEADERSHIP I PRACTICUM	2
NURS 64302	NURSING ADMINISTRATION AND HEALTH SYSTEMS LEADERSHIP II SEMINAR	2
NURS 64392	NURSING ADMINISTRATION AND HEALTH SYSTEMS LEADERSHIP II PRACTICUM	2
Business elective		3

Minimum Total Credit Hours: 58

## Business Analytics - Graduate Certificate

**College of Business Administration**  
 Department of Management and Information Systems  
 A432 Business Administration Building  
 Kent Campus  
 330-672-1140



mis@kent.edu  
www.kent.edu/business/mis

## Description

The Business Analytics graduate certificate provides individuals, especially those without analytics job titles or responsibilities but with the burning desire for the field, the opportunity to familiarize themselves with this ever-growing and versatile discipline. The certificate program would also enable these individuals to augment their knowledge base beyond their chosen professions and improve their value to their employers and businesses, or marketability if they choose to change jobs.

### Fully Offered At:

- Online
- Kent Campus

## Accreditation

AACSB, International - The Association to Advance Collegiate Schools of Business

## Admission Requirements

- Bachelor's degree from an accredited college or university for unconditional admission
- Minimum 3.000 undergraduate GPA on a 4.000 point scale for unconditional admission
- Official transcript(s)
- GMAT or GRE scores<sup>1</sup>
- Goal statement
- Resume
- Two-to-Three letters of recommendation
- English language proficiency - all international students must provide proof of English language proficiency (unless they meet specific exceptions) by earning one of the following:
  - Minimum 550 TOEFL PBT score (paper-based version)
  - Minimum 79 TOEFL IBT score (Internet-based version)
  - Minimum 77 MELAB score
  - Minimum 6.5 IELTS score
  - Minimum 58 PTE score

For more information about graduate admission, please visit the graduate admission website. For more information on international admission, visit the Office of Global Education's admission website.

<sup>1</sup> The GRE/GMAT may be waived for recent (within five years) KSU baccalaureate graduates with a minimum 3.500 overall GPA, and applicants with 3 or more years of relevant work experience. Applicants may transfer credits towards the MSBA or a cognate degree program if admitted into that program.

## Program Learning Outcomes

Graduates of this program will be able to:

- develop proficiency in the framing of business and analytics problems,

- provide leadership and decision-making abilities using analytics tools in different business contexts throughout the model lifecycle,
- develop competencies in identifying data needs and sources, data acquisition and the cleaning and refining of data for analytical processing,
- develop competencies in analytical model selection, software selection and model building,
- develop competencies in deploying, validating and interpreting analytical solutions.

The premise of the certificate program is to provide graduates a firm grasp of important analytical techniques and the knowledge of how to best implement, interpret, and communicate them in a variety of business contexts. This goal is pursued using a 'Three-Foci Model' design that integrates data analysis, information and data management, and decision-making and leadership. This model can be summarized as encompassing analytics technologies, techniques, and decision-making processes.

## Program Requirements

### Certificate Requirements

Code	Title	Credit Hours
<b>Certificate Requirements</b>		
MIS 64018	QUANTITATIVE MANAGEMENT MODELING	3
MIS 64036	BUSINESS ANALYTICS	3
MIS 64060	FUNDAMENTALS OF MACHINE LEARNING	3
MIS 64082	DATABASE MANAGEMENT AND DATABASE ANALYTICS	3
Minimum Total Credit Hours:		12

## Business Analytics - M.S.

### College of Business Administration

Department of Management and Information Systems  
A432 Business Administration Building  
Kent Campus  
330-672-1140  
mis@kent.edu  
www.kent.edu/business/mis

## Description

The Master of Science degree in Business Analytics provides students with a comprehensive knowledge of analytics that balances the technologies, analytical methods and business expertise needed to glean useful information from data to make strategic business decisions. The language of business today is dependent on information and data management, and the emergence of advanced technologies for capturing, preparing and analyzing data provides unprecedented opportunities for those with business analytics expertise that spans all industries and organizations.

Students in the Business Analytics major gain the technical, analytical, communication, decision-making and leadership skills needed to be successful business analysts. The curriculum includes integrative capstone analysis projects, and there is an internship option for additional professional development through the on-site College of Business Administration's Career Services Office.

The program starts with a boot camp two weeks before the regular semester to orient students with requirements and technologies.

### Fully Offered At:

- Online
- Kent Campus

## Accreditation

AACSB International - The Association to Advance Collegiate Schools of Business

## Admission Requirements

- Bachelor's degree in business or in a science, technology, engineering or mathematics discipline from an accredited college or university<sup>1</sup> for unconditional admission
- Minimum 3.000 undergraduate GPA on a 4.000 point scale for unconditional admission
- Official transcript(s)
- GMAT scores with minimum 500 overall (40th percentile in verbal and 60th percentile in quantitative sections minimum) or GRE scores<sup>2</sup>
- Résumé
- Goal statement
- Three letters of recommendation
- English language proficiency - all international students must provide proof of English language proficiency (unless they meet specific exceptions) by earning one of the following:
  - Minimum 550 TOEFL PBT score (paper-based version)
  - Minimum 79 TOEFL IBT score (internet-based version)
  - Minimum 77 MELAB score
  - Minimum 6.5 IELTS score
  - Minimum 58 PTE score
  - Minimum 110 Duolingo English Test score

For more information about graduate admissions, please visit the Graduate Studies admission website. For more information on international admission, visit the Office of Global Education's admission website.

<sup>1</sup> Students entering the program are expected to have the requisite backgrounds in statistics, mathematics, information systems and business required for the program. At a minimum, students should have general knowledge of inferential statistics, adequate general business knowledge, basic knowledge of business information systems and technologies, and a solid understanding of algebra and general mathematics with some exposure to calculus.

- Students who have not passed at least one undergraduate course (minimum B grade) that has substantial coverage of inferential statistics cannot be admitted into the program. Such students may fulfill that requirement by taking the graduate course MIS 64005 before they may be considered for admission.
- Students must have completed a minimum 3 credit hours of mathematics with a minimum B grade that includes linear algebra (effective spring 2021, linear algebra will no longer be required) before they can be admitted into the program. Deficiencies in mathematics must be met with appropriate undergraduate course(s) (e.g., MATH 21001).
- Deficiencies in business information systems and technologies, as well as partial fulfillment of the business knowledge requirement, can be obtained by taking the graduate course MIS 64042.
- Students who have at least three years of experience working in industry may have the academic business requirement waived.
- Students entering without any business coursework or experience can fulfill that requirement by taking the undergraduate course MGMT 24163 and/or the graduate course MIS 64158.

Students must complete these requirements before they start on the related program curriculum. The Business Analytics program director may consider concurrent enrollment according to the strength of the student's baccalaureate curriculum and preparedness, and the courses proposed to take concurrently with the prerequisite courses.

<sup>2</sup> Effective Spring 2021, the minimum scores will no longer be required and the GMAT or GRE requirement will be waived for (1) applicants who earned a Kent State bachelor's degree within the past five years and had a minimum 3.500 overall GPA and (2) applicants with three or more years of relevant work experience.

## Program Learning Outcomes

Graduates of the program will be able to:

1. Identify key characteristics of the business problem
2. Identify opportunities and constraints of various data analytical frameworks and tools.
3. Formulate appropriate data analytic techniques to solve the business problem.
4. Perform necessary data preparation steps (retrieve, clean and manipulate data).
5. Demonstrate necessary theoretical knowledge and practical skills to implement several data-analytic frameworks using different tools.
6. Lead and work with teams to frame the business problem.
7. Convey in writing the outcomes of analytics for stakeholders.
8. Use visual outcomes of analytics to communicate orally effective messages for stakeholders

## Program Requirements

### Major Requirements

Code	Title	Credit Hours
<b>Major Requirements</b>		
MIS 64018	QUANTITATIVE MANAGEMENT MODELING	3
MIS 64036	BUSINESS ANALYTICS	3

MIS 64037	ADVANCED DATA MINING AND PREDICTIVE ANALYTICS	3
MIS 64038	ANALYTICS IN PRACTICE	3
MIS 64060	FUNDAMENTALS OF MACHINE LEARNING	3
MIS 64061	ADVANCED MACHINE LEARNING	3
MIS 64082	DATABASE MANAGEMENT AND DATABASE ANALYTICS	3
MIS 64092	INTERNSHIP IN BUSINESS ANALYTICS	3
Major Electives, choose from the following:		6
CS 63015	DATA MINING TECHNIQUES	
CS 63016	BIG DATA ANALYTICS	
ECON 62054	ECONOMETRICS I	
EMAT 61010	ENTERPRISE ARCHITECTURE	
EMAT 64210	DATA SCIENCE	
HI 60411	CLINICAL ANALYTICS	
KM 60370	SEMANTIC ANALYSIS METHODS AND TECHNOLOGIES	
MIS 64011	SYSTEMS SIMULATION	
MIS 64028	GLOBAL SUPPLY CHAIN BUSINESS MODELS	
MIS 64099	CAPSTONE PROJECT IN BUSINESS ANALYTICS	
MIS 64160	LEADERSHIP AND ORGANIZATIONAL CHANGE	
MKTG 65057	MARKETING RESEARCH	

Minimum Total Credit Hours: 30

## Graduation Requirements

Minimum 30 credit hours required for the degree is the assumption that a student does not have any unmet requirements she/he needs to be successful in the program. The Business Analytics program coordinator may make further determination of a student's preparedness for the program and what prerequisite courses, if any, may be required.

## Business Management - B.B.A.

### College of Business Administration

Department of Management and Information Systems  
A432 Business Administration Building  
Kent Campus  
330-672-1140  
mis@kent.edu  
www.kent.edu/business/mis

## Description

The Bachelor of Business Administration degree in Business Management gives students credentials important to getting their first job as an entry-level manager or manager-trainee. Every organization of any size and type depends on and needs managers, including, as examples, the small corner store, department stores, accounting firms, healthcare centers, manufacturing firms or a business-to-business type of organization.

Business Management students may apply early to the M.B.A. degree and double count 9 credit hours of graduate courses toward both degree programs. See the Combined Bachelor's/Master's Degree Program policy in the University Catalog for more information.

## Fully Offered At:

- Ashtabula Campus
- Geauga Campus
- Kent Campus
- Salem Campus
- Stark Campus
- Trumbull Campus
- Tuscarawas Campus

## Accreditation

AACSB, International - The Association to Advance Collegiate Schools of Business

## Admission Requirements

The university affirmatively strives to provide educational opportunities and access to students with varied backgrounds, those with special talents and adult students who graduated from high school three or more years ago.

**Freshman Students on the Kent Campus:** The freshman admission policy on the Kent Campus is selective. Admission decisions are based upon the following: cumulative grade point average, ACT and/or SAT scores, strength of high school college preparatory curriculum and grade trends. The Admissions Office at the Kent Campus may defer the admission of students who do not meet admissions criteria but who demonstrate areas of promise for successful college study. Deferred applicants may begin their college coursework at one of seven regional campuses of Kent State University. For more information on admissions, including additional requirements for some academic programs, visit the admissions website for new freshmen.

**Freshman Students on the Regional Campuses:** Kent State campuses at Ashtabula, East Liverpool, Geauga, Salem, Stark, Trumbull and Tuscarawas, as well as the Regional Academic Center in Twinsburg, have open enrollment admission for students who hold a high school diploma, GED or equivalent.

**English Language Proficiency Requirements for International Students:** All international students must provide proof of English language proficiency (unless they meet specific exceptions) by earning a minimum 525 TOEFL score (71 on the Internet-based version), minimum 75 MELAB score, minimum 6.0 IELTS score or minimum 48 PTE score, or by completing the ESL level 112 Intensive Program. For more information on international admission, visit the Office of Global Education's admission website.

**Transfer, Transitioning and Former Students:** For more information about admission criteria for transfer, transitioning and former students, please visit the admissions website.

**Transfer Student:** A minimum 2.500 overall GPA is required for admission into the major. Students who have previously attended Kent State and have completed (or the equivalent of) COMM 15000, ENG 21011, MATH 11010 and MGMT 24163 must have earned a minimum C grade in the courses.

## Program Learning Outcomes

Graduates of this program will be able to:

1. Assess and suggest appropriate solutions to human resource-related business problems.
2. Assess and suggest appropriate solutions to business concerns in global markets.
3. Demonstrate an understanding of basic principles of project management.
4. Demonstrate an understanding of leadership principles and theories.

Graduates of the Bachelor of Business Administration degree will be able to:

1. Recall strategic frameworks that are used to make business decisions.
2. Perform basic calculations using quantitative tools that are used to support business decisions.
3. Articulate and deliberate their ideas in writing.
4. Articulate and deliberate their ideas orally.
5. Identify ethical dilemmas and stakeholders.
6. Recommend alternatives and consequences and choose a reasoned conclusion from the alternatives given.
7. Identify global factors in making a business decision.
8. Analyze global factors in making a business decision.

## University Requirements

All students in a bachelor's degree program at Kent State University must complete the following university requirements for graduation.

**NOTE:** University requirements may be fulfilled in this program by specific course requirements. Please see Program Requirements for details.

Destination Kent State: First Year Experience	1
Course is not required for students with 25 transfer credits, excluding College Credit Plus, or age 21+ at time of admission.	
Diversity Domestic/Global (DIVD/DIVG)	2 courses
Students must successfully complete one domestic and one global course, of which one must be from the Kent Core.	
Experiential Learning Requirement (ELR)	varies
Students must successfully complete one course or approved experience.	
Kent Core (see table below)	36-37
Writing-Intensive Course (WIC)	1 course
Students must earn a minimum C grade in the course.	
Upper-Division Requirement	39 (or 42)
Students must successfully complete 39 upper-division (numbered 30000 to 49999) credit hours to graduate. Students in a B.A. and/or B.S. degree in the College of Arts and Sciences must complete 42 upper-division credit hours.	
Total Credit Hour Requirement	120
Some bachelor's degrees require students to complete more than 120 credit hours.	

## Kent Core Requirements

Kent Core Composition (KCOMP)	6
Kent Core Mathematics and Critical Reasoning (KMCR)	3
Kent Core Humanities and Fine Arts (KHUM/KFA) (min one course each)	9
Kent Core Social Sciences (KSS) (must be from two disciplines)	6

Kent Core Basic Sciences (KBS/KLAB) (must include one laboratory)	6-7
Kent Core Additional (KADL)	6
<b>Total Credit Hours:</b>	<b>36-37</b>

## Program Requirements

### Major Requirements

Code	Title	Credit Hours
<b>Major Requirements (courses count in major GPA)</b>		
MGMT 34165 or MGMT 34175	DYNAMICS OF LEADERSHIP <sup>1</sup> LEARNING TO LEAD	3
HRM 34180	HUMAN RESOURCE MANAGEMENT <sup>2</sup>	3
MGMT 34185	INDIVIDUAL AND GROUP BEHAVIOR IN ORGANIZATIONS	3
MGMT 44152	PROJECT MANAGEMENT	3
MGMT 44163	GLOBAL BUSINESS MANAGEMENT (WIC) <sup>3</sup>	3
MGMT 44392	BUSINESS CONSULTING AND PRACTICUM (ELR)	3
Major Electives, choose from the following:		6
BUS 30187 or MGMT 44187	INTERNATIONAL BUSINESS EXPERIENCE INTERNATIONAL MANAGEMENT EXPERIENCE	
MGMT 34054	USING INFORMATION SYSTEMS FOR SOLVING BUSINESS PROBLEMS	
MGMT 34164	ORGANIZATIONAL MENTORING	
MGMT 34165 or MGMT 34175	DYNAMICS OF LEADERSHIP <sup>1</sup> LEARNING TO LEAD	
MGMT 44009	THE BUSINESS CASE FOR SUSTAINABILITY	
MGMT 44062	SUPPLY CHAIN MANAGEMENT	
College Electives, choose from the following: <sup>4</sup>		6
ACCT 33063	COST CONTROL AND ANALYSIS FOR MANAGEMENT <sup>5</sup>	
ECON 32082	INTRODUCTION TO MANAGERIAL ECONOMICS	
FIN 36040	PERSONAL FINANCIAL PLANNING	
MKTG 45046	PROFESSIONAL SELLING	
<b>Additional Requirements (courses do not count in major GPA)</b>		
ACCT 23020	INTRODUCTION TO FINANCIAL ACCOUNTING	3
ACCT 23021	INTRODUCTION TO MANAGERIAL ACCOUNTING	3
BUS 10123	EXPLORING BUSINESS <sup>6</sup>	3
BUS 30062	ADVANCED PROFESSIONAL DEVELOPMENT	3
CIS 24053	INTRODUCTION TO COMPUTER APPLICATIONS	3
COMM 15000	INTRODUCTION TO HUMAN COMMUNICATION (KADL) (min C grade)	3
ECON 22060	PRINCIPLES OF MICROECONOMICS (KSS)	3
ECON 22061	PRINCIPLES OF MACROECONOMICS (KSS)	3
FIN 26074	LEGAL ENVIRONMENT OF BUSINESS	3
FIN 36053	BUSINESS FINANCE	3
MATH 11010	ALGEBRA FOR CALCULUS (KMCR) (min C grade)	3
MATH 11012 or MATH 12002	INTUITIVE CALCULUS (KMCR) ANALYTIC GEOMETRY AND CALCULUS I (KMCR)	3-5
MGMT 24056	BUSINESS ANALYTICS I <sup>7</sup>	3
MGMT 24163	PRINCIPLES OF MANAGEMENT (min C grade)	3
MGMT 34060	OPERATIONS MANAGEMENT	3
MGMT 34156	BUSINESS ANALYTICS II	3

MGMT 44285	INTEGRATED BUSINESS POLICY AND STRATEGY	3
MKTG 25010	PRINCIPLES OF MARKETING	3
UC 10097	DESTINATION KENT STATE: FIRST YEAR EXPERIENCE	1
UC 10162	INTRODUCTION TO PROFESSIONAL DEVELOPMENT	1
Kent Core Composition (min C grade) <sup>8</sup>		6
Kent Core Humanities and Fine Arts (minimum one course from each)		9
Kent Core Social Sciences		3
Kent Core Basic Sciences (must include one laboratory)		6-7
General Electives (total credit hours depends on earning 120 credit hours, including 39 upper-division credit hours) <sup>9</sup>		10
Minimum Total Credit Hours:		120

- Students must complete at least 50 percent of business credit hours (required for the business degree) in-residence on a Kent State University campus.
- Students must complete two measures of outcomes assessment as specified by the College of Business Administration for complete satisfaction of the B.B.A.

<sup>1</sup> Students can receive credit for both MGMT 34165 and MGMT 34175.

<sup>2</sup> Students who completed BMRT 31006 as an associate degree student or at a Kent State regional campus may substitute it in place of HRM 34180.

<sup>3</sup> A minimum C grade is required to fulfill the writing intensive requirement.

<sup>4</sup> Students who study abroad may use BUS 30234 as a College Elective for the major.

<sup>5</sup> Students who change their major from Accounting to Business Management, or who have declared both the Accounting and Business Management majors or have declared the Accounting minor, may substitute ACCT 33010 in place of ACCT 33063. Students who complete ACTT 31063 as an associate degree student or at a Kent State regional campus may substitute it in place of ACCT 33063.

<sup>6</sup> A student changing to the College of Business Administration or transferring may be waived out of BUS 10123 if:

1. 30 or more credit hours have been earned and any two classes (from ACCT 23020, ACCT 23021, CIS 24053, FIN 26074, MGMT 24163 or MKTG 25010) have successfully been completed.
2. 60 or more credit hours have been earned and the student has successfully completed one course (from ACCT 23020, ACCT 23021, FIN 26074, MGMT 24163, MKTG 25010 or CIS 24053)
3. At the discretion of the college's dean's office, the student has sufficient breadth and depth of knowledge in a business field (as demonstrated by a CLEP score or Credit by Exam) but does not meet the requirements listed above.

<sup>7</sup> Students who have taken MATH 10041 for another program may use it as a substitute for MGMT 24056.

<sup>8</sup> Minimum C grade in ENG 21011 or HONR 20197.

<sup>9</sup> A maximum of 4 credit hours of Physical Activity, Wellness and Sport (PWS) courses may be applied toward the degree program.

## Progression Requirements

- Minimum 2.500 overall GPA
- Minimum C grade in COMM 15000, ENG 21011, MATH 11010 and MGMT 24163.

## Graduation Requirements

Minimum Major GPA	Minimum Overall GPA
2.500	2.500



## Roadmap

This roadmap is a recommended semester-by-semester plan of study for this major. However, courses designated as critical (!) must be completed in the semester listed to ensure a timely graduation.

<b>Semester One</b>		<b>Credits</b>
BUS 10123	EXPLORING BUSINESS	3
COMM 15000	INTRODUCTION TO HUMAN COMMUNICATION (KADL)	3
MATH 11010	ALGEBRA FOR CALCULUS (KMCR)	3
UC 10097	DESTINATION KENT STATE: FIRST YEAR EXPERIENCE	1
Kent Core Requirement		3
Kent Core Requirement		3
Credit Hours		16
<b>Semester Two</b>		
CIS 24053	INTRODUCTION TO COMPUTER APPLICATIONS	3
ECON 22060	PRINCIPLES OF MICROECONOMICS (KSS)	3
MATH 11012	INTUITIVE CALCULUS (KMCR)	3-5
or	or ANALYTIC GEOMETRY AND CALCULUS I (KMCR)	
MATH 12002		
UC 10162	INTRODUCTION TO PROFESSIONAL DEVELOPMENT	1
Kent Core Requirement		3
Kent Core Requirement		3
Credit Hours		16
<b>Semester Three</b>		
ACCT 23020	INTRODUCTION TO FINANCIAL ACCOUNTING	3
ECON 22061	PRINCIPLES OF MACROECONOMICS (KSS)	3
FIN 26074	LEGAL ENVIRONMENT OF BUSINESS	3
MGMT 24163	PRINCIPLES OF MANAGEMENT	3
Kent Core Requirement		3
Credit Hours		15
<b>Semester Four</b>		
ACCT 23021	INTRODUCTION TO MANAGERIAL ACCOUNTING	3
BUS 30062	ADVANCED PROFESSIONAL DEVELOPMENT	3
MGMT 24056	BUSINESS ANALYTICS I	3
MKTG 25010	PRINCIPLES OF MARKETING	3
Kent Core Requirement		3
Credit Hours		15
<b>Semester Five</b>		
Required for progression in the major: minimum 2.500 overall GPA, minimum C grade in COMM 15000, ENG 21011, MATH 11010 and MGMT 24163		
FIN 36053	BUSINESS FINANCE	3
HRM 34180	HUMAN RESOURCE MANAGEMENT	3
MGMT 34060	OPERATIONS MANAGEMENT	3
Kent Core Requirement		3
Kent Core Requirement		3
Credit Hours		15
<b>Semester Six</b>		
Required: minimum overall 2.500 GPA		
MGMT 34156	BUSINESS ANALYTICS II	3
MGMT 34165	DYNAMICS OF LEADERSHIP	3
Major Electives		3
College Electives		3

General Electives		3
Credit Hours		15
<b>Semester Seven</b>		
Required: minimum overall 2.500 GPA		
MGMT 44152	PROJECT MANAGEMENT	3
MGMT 44163	GLOBAL BUSINESS MANAGEMENT (WIC)	3
Major Electives		3
General Electives		6
Credit Hours		15
<b>Semester Eight</b>		
Required: minimum overall 2.500 GPA and completion of The Assurance of Learning Assessment given in MGMT 44285		
MGMT 34185	INDIVIDUAL AND GROUP BEHAVIOR IN ORGANIZATIONS	3
MGMT 44285	INTEGRATED BUSINESS POLICY AND STRATEGY	3
MGMT 44392	BUSINESS CONSULTING AND PRACTICUM (ELR)	3
College Electives		3
General Electives		1
Credit Hours		13
Minimum Total Credit Hours:		120

## Computer Information Systems - B.B.A.

### College of Business Administration

Department of Management and Information Systems

A432 Business Administration Building

Kent Campus

330-672-1140

mis@kent.edu

www.kent.edu/business/mis

## Description

The Bachelor of Business Administration degree in Computer Information Systems provides students with a focus on the creation and supervision of the information systems that are commonly used in organizations of all types and sizes. There is a primary emphasis on problem-solving involving cloud computing systems and infrastructure, creating intuitive systems, business modeling and agile design, data management and business intelligence, cloud systems integration and project management and business experience.

Examples of information systems include airline reservation systems, mobile apps, bank automated teller systems, trading systems for stock exchanges, social media platforms and accounting/auditing systems.

Students can select electives to complement their knowledge base and interests such as in application design and development and other computing infrastructure that focus on the creation and maintenance of application used in smart phones and similar technologies and prepares students for careers as development engineers and system analysts. Students learn to use and manage cloud-based platforms to support and manage business processes and operations in organizations. Some material taught in courses correlate with the knowledge needed to pass professional certification exams.

Students participate in an internship, which involves a summer or a semester of paid professional experience in industry. Internship

experience helps show the relevance of on-campus courses to professional work, helps students focus their career plans and often enables students to secure better jobs upon graduation.

Computer Information Systems students may apply early to the M.B.A. degree and double count 9 credit hours of graduate courses toward both degree programs. See the Combined Bachelor's/Master's Degree Program policy in the University Catalog for more information.

### Fully Offered At:

- Kent Campus

## Accreditation

AACSB, International - The Association to Advance Collegiate Schools of Business

## Admission Requirements

The university affirmatively strives to provide educational opportunities and access to students with varied backgrounds, those with special talents and adult students who graduated from high school three or more years ago.

**Freshman Students on the Kent Campus:** The freshman admission policy on the Kent Campus is selective. Admission decisions are based upon the following: cumulative grade point average, ACT and/or SAT scores, strength of high school college preparatory curriculum and grade trends. The Admissions Office at the Kent Campus may defer the admission of students who do not meet admissions criteria but who demonstrate areas of promise for successful college study. Deferred applicants may begin their college coursework at one of seven regional campuses of Kent State University. For more information on admissions, including additional requirements for some academic programs, visit the admissions website for new freshmen.

**Freshman Students on the Regional Campuses:** Kent State campuses at Ashtabula, East Liverpool, Geauga, Salem, Stark, Trumbull and Tuscarawas, as well as the Regional Academic Center in Twinsburg, have open enrollment admission for students who hold a high school diploma, GED or equivalent.

**English Language Proficiency Requirements for International Students:** All international students must provide proof of English language proficiency (unless they meet specific exceptions) by earning a minimum 525 TOEFL score (71 on the Internet-based version), minimum 75 MELAB score, minimum 6.0 IELTS score or minimum 48 PTE score, or by completing the ESL level 112 Intensive Program. For more information on international admission, visit the Office of Global Education's admission website.

**Transfer, Transitioning and Former Students:** For more information about admission criteria for transfer, transitioning and former students, please visit the admissions website.

**Transfer Student:** A minimum 2.500 overall GPA is required for admission into the major. Students who have previously attended Kent State who completed (or the equivalent of) COMM 15000, ENG 21011 and/or MATH 11010 must have earned a minimum C grade in the courses, and a minimum C+ grade in both CIS 24053 and CIS 24165.

## Program Learning Outcomes

Graduates of this program will be able to:

1. Perform as an effective member on project teams.
2. Navigate the cloud and cloudbased platforms.
3. Select, install and operate systems, databases and applications using cloud infrastructure.
4. Design, code and distribute intuitive cloudbased apps.
5. Conceptualize and deploy data management and analytics systems to support business requirements.

Graduates of the Bachelor of Business Administration degree will be able to:

1. Recall strategic frameworks that are used to make business decisions.
2. Perform basic calculations using quantitative tools that are used to support business decisions.
3. Articulate and deliberate their ideas in writing.
4. Articulate and deliberate their ideas orally.
5. Identify ethical dilemmas and stakeholders.
6. Recommend alternatives and consequences and choose a reasoned conclusion from the alternatives given.
7. Identify global factors in making a business decision.
8. Analyze global factors in making a business decision.

## University Requirements

All students in a bachelor's degree program at Kent State University must complete the following university requirements for graduation.

**NOTE:** University requirements may be fulfilled in this program by specific course requirements. Please see Program Requirements for details.

Destination Kent State: First Year Experience	1
Course is not required for students with 25 transfer credits, excluding College Credit Plus, or age 21+ at time of admission.	
Diversity Domestic/Global (DIVD/DIVG)	2 courses
Students must successfully complete one domestic and one global course, of which one must be from the Kent Core.	
Experiential Learning Requirement (ELR)	varies
Students must successfully complete one course or approved experience.	
Kent Core (see table below)	36-37
Writing-Intensive Course (WIC)	1 course
Students must earn a minimum C grade in the course.	
Upper-Division Requirement	39 (or 42)
Students must successfully complete 39 upper-division (numbered 30000 to 49999) credit hours to graduate. Students in a B.A. and/or B.S. degree in the College of Arts and Sciences must complete 42 upper-division credit hours.	
Total Credit Hour Requirement	120
Some bachelor's degrees require students to complete more than 120 credit hours.	

## Kent Core Requirements

Kent Core Composition (KCOMP)	6
Kent Core Mathematics and Critical Reasoning (KMCR)	3
Kent Core Humanities and Fine Arts (KHUM/KFA) (min one course each)	9
Kent Core Social Sciences (KSS) (must be from two disciplines)	6
Kent Core Basic Sciences (KBS/KLAB) (must include one laboratory)	6-7
Kent Core Additional (KADL)	6
<b>Total Credit Hours:</b>	<b>36-37</b>

## Program Requirements

### Major Requirements

Code	Title	Credit Hours
<b>Major Requirements (courses count in major GPA)</b>		
CIS 24165	CLOUD SYSTEMS COMPUTING (min C+ grade)	3
CIS 24167	CLOUD INFRASTRUCTURE AND APPLICATIONS	3
CIS 34034	BUSINESS MODELING AND AGILE DESIGN	3
CIS 34167	CREATING INTUITIVE SYSTEMS	3
CIS 44007	PROJECT MANAGEMENT AND TEAM DYNAMICS	3
CIS 44040	PROGRAMMING FOR THE CLOUD	3
CIS 44043	DATA MANAGEMENT AND BUSINESS INTELLIGENCE I	3
CIS 44048	CLOUD SYSTEMS INTEGRATION (ELR) (WIC) <sup>1</sup>	3
CIS 44292	BUSINESS EXPERIENCE AND INTERNSHIP (ELR) <sup>2</sup>	3
Major Electives, choose from the following:		3
CIS 34036	ENTERPRISE SYSTEMS AND BUSINESS PROCESSES	
CIS 34170	TECHNOLOGY BOOTCAMP	
CIS 44140	APPLICATION DESIGN AND DEVELOPMENT	
CIS 44243	DATA MANAGEMENT AND BUSINESS INTELLIGENCE II	
CIS 44295	SPECIAL TOPICS IN INFORMATION SYSTEMS	
CIS 44293	WORKSHOP IN PROFESSIONAL IS CERTIFICATION	
<b>Additional Requirements (courses do not count in major GPA)</b>		
ACCT 23020	INTRODUCTION TO FINANCIAL ACCOUNTING	3
ACCT 23021	INTRODUCTION TO MANAGERIAL ACCOUNTING	3
CIS 24053	INTRODUCTION TO COMPUTER APPLICATIONS (min C+ grade)	3
BUS 10123	EXPLORING BUSINESS <sup>3</sup>	3
BUS 30062	ADVANCED PROFESSIONAL DEVELOPMENT	3
COMM 15000	INTRODUCTION TO HUMAN COMMUNICATION (KADL) (min C grade)	3
ECON 22060	PRINCIPLES OF MICROECONOMICS (KSS)	3
ECON 22061	PRINCIPLES OF MACROECONOMICS (KSS)	3
FIN 26074	LEGAL ENVIRONMENT OF BUSINESS	3
FIN 36053	BUSINESS FINANCE	3
MATH 11010	ALGEBRA FOR CALCULUS (KMCR) (min C grade)	3
MATH 11012	INTUITIVE CALCULUS (KMCR)	3-5
or MATH 12002	ANALYTIC GEOMETRY AND CALCULUS I (KMCR)	
MGMT 24056	BUSINESS ANALYTICS I <sup>4</sup>	3

MGMT 24163	PRINCIPLES OF MANAGEMENT	3
MGMT 34060	OPERATIONS MANAGEMENT	3
MGMT 34156	BUSINESS ANALYTICS II	3
MGMT 44285	INTEGRATED BUSINESS POLICY AND STRATEGY	3
MKTG 25010	PRINCIPLES OF MARKETING	3
UC 10097	DESTINATION KENT STATE: FIRST YEAR EXPERIENCE	1
UC 10162	INTRODUCTION TO PROFESSIONAL DEVELOPMENT	1
Kent Core Composition (min C grade) <sup>5</sup>		6
Kent Core Humanities and Fine Arts (minimum one course from each)		9
Kent Core Social Sciences		3
Kent Core Basic Sciences (must include one laboratory)		6-7
General Electives (total credit hours depends on earning 120 credit hours, including 39 upper-division credit hours) <sup>6</sup>		10
Minimum Total Credit Hours:		120

- A minimum C must be earned to fulfill the writing-intensive requirement.
- Substitutions will be considered by the chair of the Department of Management and Information Systems on a case-by-case basis.
- A student changing to the College of Business Administration or transferring may be waived out of BUS 10123 if:
  - 30 or more credit hours have been earned and any two classes (from ACCT 23020, ACCT 23021, FIN 26074, MGMT 24163, MKTG 25010 or CIS 24053) have successfully been completed.
  - 60 or more credit hours have been earned and the student has completed one course (from ACCT 23020, ACCT 23021, FIN 26074, MGMT 24163, MKTG 25010 or CIS 24053)
  - At the discretion of the Dean's Office, the student has sufficient breadth and depth of knowledge in a business field (as demonstrated by a CLEP exam or Credit by Exam) but does not meet the requirements listed above.
- Students who have taken MATH 10041 for another program may use it as a substitute for MGMT 24056.
- Minimum C grade in ENG 21011 or HONR 20197.
- An education abroad experience is encouraged as a general elective. A maximum of 4 credit hours of Physical Activity, Wellness and Sport (PWS) courses may be applied toward the degree program.

### Progression Requirements

Minimum 2.500 overall GPA

Minimum C grade in COMM 15000, ENG 21011 (or HONR 20197) and MATH 11010 (or placement out of MATH 11010)

Minimum C+ grade in both CIS 24053 and CIS 24165

### Graduation Requirements

Minimum Major GPA	Minimum Overall GPA
2.500	2.500

- Students must complete at least 50 percent of business credit hours (required for the business degree) in-residence on a Kent State University campus.
- Students must complete two measures of outcomes assessment as specified by the College of Business Administration for complete satisfaction of the B.B.A.



## Roadmap

This roadmap is a recommended semester-by-semester plan of study for this major. However, courses designated as critical (!) must be completed in the semester listed to ensure a timely graduation.

Semester One		Credits
MATH 11010	ALGEBRA FOR CALCULUS (KMCR)	3
BUS 10123	EXPLORING BUSINESS	3
COMM 15000	INTRODUCTION TO HUMAN COMMUNICATION (KADL)	3
UC 10097	DESTINATION KENT STATE: FIRST YEAR EXPERIENCE	1
Kent Core Requirement		3
Kent Core Requirement		3
Credit Hours		16
Semester Two		Credits
ECON 22060	PRINCIPLES OF MICROECONOMICS (KSS)	3
MATH 11012	INTUITIVE CALCULUS (KMCR)	3-5
	or ANALYTIC GEOMETRY AND CALCULUS I	
	MATH 12002 (KMCR)	
CIS 24053	INTRODUCTION TO COMPUTER APPLICATIONS	3
UC 10162	INTRODUCTION TO PROFESSIONAL DEVELOPMENT	1
Kent Core Requirement		3
Kent Core Requirement		3
Credit Hours		16
Semester Three		Credits
ACCT 23020	INTRODUCTION TO FINANCIAL ACCOUNTING	3
CIS 24165	CLOUD SYSTEMS COMPUTING	3
ECON 22061	PRINCIPLES OF MACROECONOMICS (KSS)	3
FIN 26074	LEGAL ENVIRONMENT OF BUSINESS	3
Kent Core Requirement		3
Credit Hours		15
Semester Four		Credits
Required for progression in the major: Minimum 2.500 cumulative GPA, minimum C grade in COMM 15000, ENG 21011, MATH 11010; and a minimum C+ in both CIS 24053 and CIS 24165.		
ACCT 23021	INTRODUCTION TO MANAGERIAL ACCOUNTING	3
BUS 30062	ADVANCED PROFESSIONAL DEVELOPMENT	3
CIS 24167	CLOUD INFRASTRUCTURE AND APPLICATIONS	3
CIS 34167	CREATING INTUITIVE SYSTEMS	3
MGMT 24163	PRINCIPLES OF MANAGEMENT	3
Credit Hours		15
Semester Five		Credits
Required: minimum 2.500 overall GPA		
CIS 34034	BUSINESS MODELING AND AGILE DESIGN	3
! CIS 44040	PROGRAMMING FOR THE CLOUD	3
MGMT 24056	BUSINESS ANALYTICS I	3
MKTG 25010	PRINCIPLES OF MARKETING	3
Kent Core Requirement		3
Credit Hours		15
Semester Six		Credits
Required: minimum 2.500 overall GPA		
CIS 44007	PROJECT MANAGEMENT AND TEAM DYNAMICS	3
! CIS 44043	DATA MANAGEMENT AND BUSINESS INTELLIGENCE I	3
FIN 36053	BUSINESS FINANCE	3
MGMT 34060	OPERATIONS MANAGEMENT	3

Kent Core Requirement		3
Credit Hours		15
Semester Seven		Credits
Required: minimum cumulative 2.500 GPA		
CIS 44048	CLOUD SYSTEMS INTEGRATION (ELR) (WIC)	3
MGMT 34156	BUSINESS ANALYTICS II	3
Kent Core Requirement		3
! General Electives		6
Credit Hours		15
Semester Eight		Credits
Required: minimum cumulative 2.500 GPA and completion of The Assurance of Learning Assessment given in MGMT 44285		
CIS 44292	BUSINESS EXPERIENCE AND INTERNSHIP (ELR)	3
MGMT 44285	INTEGRATED BUSINESS POLICY AND STRATEGY	3
Kent Core Requirement		3
General Electives		4
Credit Hours		13
Minimum Total Credit Hours:		120

## Computer Information Systems - Minor

### College of Business Administration

Department of Management and Information Systems

A432 Business Administration Building

Kent Campus

330-672-1140

mis@kent.edu

www.kent.edu/business/mis

## Description

The Computer Information Systems minor is self-contained and assumes essentially no prior experience with computers or information systems. It complements students' primary career field by providing knowledge and hands-on experience in cloud computing systems and infrastructure, business modeling and agile design, data management and business intelligence and other computer technologies. Students are able to design and build computer information systems of modest size and to participate with professional analysts, on an effective partnership basis, in the construction of large cloud systems. Students also have the ability to aid their co-workers by performing computer system support in consultative and advisory roles.

### Fully Offered At:

- Kent Campus

## Admission Requirements

Admission to a minor is open to students declared in a bachelor's degree, the A.A.B. or A.A.S. degree or the A.T.S. degree (not Individualized Program major). Students declared only in the A.A. or A.S. degree or the A.T.S. degree in Individualized Program may not declare a minor. Students may not pursue a minor and a major in the same discipline.

To declare the Computer Information Systems minor, students must have a minimum 2.500 overall Kent State University GPA. No Kent State



University GPA is required if the student is a first-semester freshman or transfer student admitted in good standing.

330-672-1140  
mis@kent.edu  
www.kent.edu/business/mis

## Minor Requirements

Code	Title	Credit Hours
<b>Minor Requirements</b>		
CIS 24053	INTRODUCTION TO COMPUTER APPLICATIONS (min C+ grade) <sup>1</sup>	3
CIS 24165	CLOUD SYSTEMS COMPUTING	3
CIS 24167	CLOUD INFRASTRUCTURE AND APPLICATIONS	3
CIS 34034	BUSINESS MODELING AND AGILE DESIGN	3
CIS 44040	PROGRAMMING FOR THE CLOUD	3
Minor Electives, choose from the following: <sup>2</sup>		3
CIS 34036	ENTERPRISE SYSTEMS AND BUSINESS PROCESSES	
CIS 34170	TECHNOLOGY BOOTCAMP	
CIS 44140	APPLICATION DESIGN AND DEVELOPMENT	
CIS 44243	DATA MANAGEMENT AND BUSINESS INTELLIGENCE II	
CIS 44293	WORKSHOP IN PROFESSIONAL IS CERTIFICATION	
CIS 44295	SPECIAL TOPICS IN INFORMATION SYSTEMS	
Minimum Total Credit Hours:		18

<sup>1</sup> Students declared in the Aeronautics major, Aviation Management concentration, may substitute ENGR 10001 in place of CIS 24053.

<sup>2</sup> Students may use another course as a minor elective with permission of a faculty advisor.

## Progression Requirements

- Minimum 2.500 overall GPA
- Minimum C+ grade in CIS 24053

## Graduation Requirements

Minimum Minor GPA	Minimum Overall GPA
2.500	2.000

- Students are expected to satisfy course prerequisites for each course required in the minor. Prerequisites are not tied to a particular catalog; therefore it is important to look at the most current information about a course.
- Students may not pursue a minor and major in the same discipline.
- Minimum 6 credit hours in the minor must be upper-division coursework (30000 and 40000 level).
- Minimum 6 credit hours in the minor must be outside of the course requirements for any major or other minor the student is pursuing.
- Minimum 50 percent of the total credit hours for the minor must be taken at Kent State (in residence).

## Doctoral Applied Statistics - Minor

**College of Business Administration**  
Department of Management and Information Systems  
A432 Business Administration Building  
Kent Campus

## Minor Requirements

Code	Title	Credit Hours
<b>Minor Requirements</b>		
Choose from one the following tracks:		12
<i>Probability/Statistics Modeling Track</i>		
ECON 72054	ECONOMETRICS I	
ECON 72055	ECONOMETRICS II	
MATH 70051	PROBABILITY I	
MATH 70052	PROBABILITY II	
MATH 70061	MATHEMATICAL STATISTICS I	
MIS 64011	SYSTEMS SIMULATION	
MIS 74017	MULTIVARIATE STATISTICS	
MIS 84015	STOCHASTIC MODELS	
<i>Data Analysis Track</i>		
ECON 72054	ECONOMETRICS I	
MATH 70051	PROBABILITY I	
MIS 64011	SYSTEMS SIMULATION	
MIS 74013	NONPARAMETRIC AND ROBUST STATISTICS	
MIS 74017	MULTIVARIATE STATISTICS	
MKTG 85063	ANALYTICAL METHODS IN MARKETING RESEARCH	
PSYC 71651	QUANTITATIVE STATISTICAL ANALYSIS I	
PSYC 71654	QUANTITATIVE STATISTICAL ANALYSIS II	
Minimum Total Credit Hours:		12

## Doctoral Information Systems - Minor

**College of Business Administration**  
Department of Management and Information Systems  
A432 Business Administration Building  
Kent Campus  
330-672-1140  
mis@kent.edu  
www.kent.edu/business/mis

## Minor Requirements

Code	Title	Credit Hours
<b>Minor Requirements</b>		
Choose from the following:		12
MIS 84007	PHILOSOPHY OF SCIENCE AND BUSINESS MODELS	
MIS 84045	SOCIAL ISSUES IN INFORMATION SYSTEMS	
MIS 84080	INNOVATION, ADOPTION, DIFFUSION	
MIS 84081	INFORMATION SYSTEMS STRATEGY AND INNOVATION	
MIS 84082	DATABASE MANAGEMENT SYSTEMS	
Minimum Total Credit Hours:		12

## Doctoral International Business - Minor

### College of Business Administration

Department of Management and Information Systems  
A432 Business Administration Building  
Kent Campus  
330-672-1140  
mis@kent.edu  
www.kent.edu/business/mis

## Minor Requirements

Code	Title	Credit Hours
<b>Minor Requirements</b>		
ECON 72075	INTERNATIONAL TRADE	3
Choose from the following: 9		
ACCT 73030	INTERNATIONAL ACCOUNTING	
ECON 72076	INTERNATIONAL FINANCE	
ECON 72180	REGIONAL ECONOMICS	
FIN 76064		
MIS 74275	STRATEGIC GLOBAL MANAGEMENT	
MKTG 85054	INTERNATIONAL MARKETING	
Minimum Total Credit Hours:		12

## Doctoral Management Systems - Minor

### College of Business Administration

Department of Management and Information Systems  
A432 Business Administration Building  
Kent Campus  
330-672-1140  
mis@kent.edu  
www.kent.edu/business/mis

## Minor Requirements

Code	Title	Credit Hours
<b>Minor Requirements</b>		
Choose from the following:		12
MIS 74185	BUSINESS STRATEGY	
MIS 74270	ORGANIZATIONAL ANALYSIS	
MIS 84108	ACQUIRING HUMAN RESOURCES	
MIS 84261	STRATEGIC DECISION-MAKING AND HUMAN RESOURCE MANAGEMENT	
MIS 84262	THEORY OF THE FIRM	
MIS 84263	OPTIMIZING HUMAN RESOURCES	
MIS 84275	THEORETICAL AND EMPIRICAL GLOBAL STRATEGY	
MIS 84277	ORGANIZATIONAL BEHAVIOR AND THEORY	
MIS 84285	TECHNOLOGY AND INNOVATION STRATEGY	
Minimum Total Credit Hours:		12

## General Business - B.B.A.

### College of Business Administration

Department of Management and Information Systems  
A432 Business Administration Building  
Kent Campus  
330-672-1140  
mis@kent.edu  
www.kent.edu/business/mis

## Description

The Bachelor of Business Administration degree in General Business is for students who desire a holistic understanding of all business areas rather than a specialized area of business, i.e., accounting, business management, computer information systems, economics, entrepreneurship, finance, human resource management, managerial marketing and marketing.

General Business students may apply early to the M.B.A. degree and double count 9 credit hours of graduate courses toward both degree programs. See the Combined Bachelor's/Master's Degree Program policy in the University Catalog for more information.

### Fully Offered At:

- Online
- Kent Campus

## Accreditation

AACSB, International - The Association to Advance Collegiate Schools of Business

## Admission Requirements

The university affirmatively strives to provide educational opportunities and access to students with varied backgrounds, those with special talents and adult students who graduated from high school three or more years ago.

**Freshman Students on the Kent Campus:** The freshman admission policy on the Kent Campus is selective. Admission decisions are based upon the following: cumulative grade point average, ACT and/or SAT scores, strength of high school college preparatory curriculum and grade trends. The Admissions Office at the Kent Campus may defer the admission of students who do not meet admissions criteria but who demonstrate areas of promise for successful college study. Deferred applicants may begin their college coursework at one of seven regional campuses of Kent State University. For more information on admissions, including additional requirements for some academic programs, visit the admissions website for new freshmen.

**Freshman Students on the Regional Campuses:** Kent State campuses at Ashtabula, East Liverpool, Geauga, Salem, Stark, Trumbull and Tuscarawas, as well as the Regional Academic Center in Twinsburg, have open enrollment admission for students who hold a high school diploma, GED or equivalent.

**English Language Proficiency Requirements for International Students:** All international students must provide proof of English language proficiency (unless they meet specific exceptions) by earning a minimum

525 TOEFL score (71 on the Internet-based version), minimum 75 MELAB score, minimum 6.0 IELTS score or minimum 48 PTE score, or by completing the ESL level 112 Intensive Program. For more information on international admission, visit the Office of Global Education's admission website.

**Transfer, Transitioning and Former Students:** For more information about admission criteria for transfer, transitioning and former students, please visit the admissions website.

**Transfer Student:** A minimum 2.000 overall GPA is required for admission into this major. Students who have previously attended Kent State and have completed COMM 15000, ENG 21011 (or HONR 20197), MATH 11010 (or placement out of ENG 11011 and/or MATH 11010) must have earned a minimum C grade in the courses (or their equivalent).

## Program Learning Outcomes

Graduates of the program will be able to:

1. Demonstrate effective management and leadership ability when given an organizational dilemma
2. Use financial tools to create budgets, prepare financial statements and report financial position
3. Identify and analyze global considerations that affect business decisions
4. Analyze, interpret and use data to solve problems and make decisions
5. Create and communicate value for consumers

Graduates of the Bachelor of Business Administration degree will be able to:

1. Recall strategic frameworks that are used to make business decisions.
2. Perform basic calculations using quantitative tools that are used to support business decisions.
3. Articulate and deliberate their ideas in writing.
4. Articulate and deliberate their ideas orally.
5. Identify ethical dilemmas and stakeholders.
6. Recommend alternatives and consequences and choose a reasoned conclusion from the alternatives given.
7. Identify global factors in making a business decision.
8. Analyze global factors in making a business decision.

## University Requirements

All students in a bachelor's degree program at Kent State University must complete the following university requirements for graduation.

**NOTE:** University requirements may be fulfilled in this program by specific course requirements. Please see Program Requirements for details.

Destination Kent State: First Year Experience	1
Course is not required for students with 25 transfer credits, excluding College Credit Plus, or age 21+ at time of admission.	
Diversity Domestic/Global (DIVD/DIVG)	2 courses
Students must successfully complete one domestic and one global course, of which one must be from the Kent Core.	
Experiential Learning Requirement (ELR)	varies

Students must successfully complete one course or approved experience.	
Kent Core (see table below)	36-37
Writing-Intensive Course (WIC)	1 course
Students must earn a minimum C grade in the course.	
Upper-Division Requirement	39 (or 42)
Students must successfully complete 39 upper-division (numbered 30000 to 49999) credit hours to graduate. Students in a B.A. and/or B.S. degree in the College of Arts and Sciences must complete 42 upper-division credit hours.	
Total Credit Hour Requirement	120
Some bachelor's degrees require students to complete more than 120 credit hours.	

## Kent Core Requirements

Kent Core Composition (KCOMP)	6
Kent Core Mathematics and Critical Reasoning (KMCR)	3
Kent Core Humanities and Fine Arts (KHUM/KFA) (min one course each)	9
Kent Core Social Sciences (KSS) (must be from two disciplines)	6
Kent Core Basic Sciences (KBS/KLAB) (must include one laboratory)	6-7
Kent Core Additional (KADL)	6
<b>Total Credit Hours:</b>	<b>36-37</b>

## Program Requirements

### Major Requirements

Code	Title	Credit Hours
<b>Major Requirements (courses count in major GPA)</b>		
ACCT 33061	FINANCIAL REPORTING ISSUES AND ANALYSIS	3
ECON 32025	MONEY, CREDIT AND BANKING	3
or ECON 42075	INTERNATIONAL ECONOMIC RELATIONS	
ENTR 27056	INTRODUCTION TO ENTREPRENEURSHIP	3
FIN 36063	INDIVIDUAL INVESTMENT STRATEGIES	3
HRM 34180	HUMAN RESOURCE MANAGEMENT <sup>1</sup>	3
or MGMT 34165	DYNAMICS OF LEADERSHIP	
or MGMT 34185	INDIVIDUAL AND GROUP BEHAVIOR IN ORGANIZATIONS	
MGMT 34054	USING INFORMATION SYSTEMS FOR SOLVING BUSINESS PROBLEMS	3
MGMT 44299	MANAGEMENT CAPSTONE (ELR) (WIC) <sup>2</sup>	3
MKTG 35035	CONSUMER BEHAVIOR	3
or MKTG 45045	ADVERTISING AND PROMOTION MANAGEMENT	
Major Elective, choose from the following: <sup>3</sup>		3
BUS 30234	INTERNATIONAL BUSINESS	
HRM 34180	HUMAN RESOURCE MANAGEMENT	
MGMT 34157	INTRODUCTION TO HEALTHCARE SYSTEMS MANAGEMENT	
MGMT 34165	DYNAMICS OF LEADERSHIP	
MGMT 34175	LEARNING TO LEAD	

<b>Additional Requirements (courses do not count in major GPA)</b>		
ACCT 23020	INTRODUCTION TO FINANCIAL ACCOUNTING	3
ACCT 23021	INTRODUCTION TO MANAGERIAL ACCOUNTING	3
BUS 10123	EXPLORING BUSINESS <sup>4</sup>	3
BUS 30062	ADVANCED PROFESSIONAL DEVELOPMENT	3
CIS 24053	INTRODUCTION TO COMPUTER APPLICATIONS	3

COMM 15000	INTRODUCTION TO HUMAN COMMUNICATION (KADL) (min C grade)	3
ECON 22060	PRINCIPLES OF MICROECONOMICS (KSS)	3
ECON 22061	PRINCIPLES OF MACROECONOMICS (KSS)	3
FIN 26074	LEGAL ENVIRONMENT OF BUSINESS	3
FIN 36053	BUSINESS FINANCE	3
MATH 11010	ALGEBRA FOR CALCULUS (KMCR) (min C grade)	3
MATH 11012 or MATH 12002	INTUITIVE CALCULUS (KMCR) ANALYTIC GEOMETRY AND CALCULUS I (KMCR)	3-5
MGMT 24056	BUSINESS ANALYTICS I <sup>5</sup>	3
MGMT 24163	PRINCIPLES OF MANAGEMENT	3
MGMT 34060	OPERATIONS MANAGEMENT	3
MGMT 34156	BUSINESS ANALYTICS II	3
MKTG 25010	PRINCIPLES OF MARKETING	3
UC 10097	DESTINATION KENT STATE: FIRST YEAR EXPERIENCE	1
UC 10162	INTRODUCTION TO PROFESSIONAL DEVELOPMENT	1
Kent Core Composition (min C grade) <sup>6</sup>		6
Kent Core Humanities and Fine Arts (minimum one course from each)		9
Kent Core Social Sciences		3
Kent Core Basic Sciences (must include one laboratory)		6-7
General Electives (total credit hours depends on earning 120 credit hours including 39 upper-division credit hours) <sup>7</sup>		16
Minimum Total Credit Hours:		120

<sup>1</sup> Students who complete BMRT 31006 as an associate degree student or at a Kent State regional campus may substitute it for HRM 34180.

<sup>2</sup> A minimum C grade is required to fulfill the writing intensive requirement.

<sup>3</sup> Students may fulfill major electives by selecting any remaining business courses listed above and/or approved upper-division courses from business or non-business disciplines. A course fulfilling the experiential learning requirement (ELR) is recommended if not already satisfied.

<sup>4</sup> A student changing to the College of Business Administration or transferring may be waived out of BUS 10123 if:

- 30 or more credit hours have been earned and any two classes (from ACCT 23020, ACCT 23021, FIN 26074, MGMT 24163, MKTG 25010 or CIS 24053) have successfully been completed.
- 60 or more credit hours have been earned and the student has successfully completed one course (from ACCT 23020, ACCT 23021, FIN 26074, MGMT 24163, MKTG 25010 or CIS 24053)
- At the discretion of the college dean's office, the student has sufficient breadth and depth of knowledge in a business field (as demonstrated by a CLEP score or Credit by Exam) but does not meet the requirements listed above

<sup>5</sup> Students who have taken MATH 10041 for another program may use it as a substitute for MGMT 24056.

<sup>6</sup> Minimum C grade in ENG 21011 or HONR 20197.

<sup>7</sup> ECON 12060, Personal Finance, is recommended as a General Elective. Maximum 4 credit hours of Physical Activity, Wellness and Sport (PWS) courses allowed. An education abroad course is encouraged as a general elective.

## Progression Requirements

- Minimum 2.000 overall GPA
- Minimum C grade in COMM 15000, ENG 21011 and MATH 11010 (or placement out of MATH 11010)

## Graduation Requirements

Minimum Major GPA	Minimum Overall GPA
2.000	2.000

- Students must complete at least 50 percent of business credit hours (required for the business degree) in-residence on a Kent State University campus.
- Students must complete two measures of outcomes assessment as specified by the College of Business Administration for complete satisfaction of the B.B.A.

## Roadmap

This roadmap is a recommended semester-by-semester plan of study for this major. However, courses designated as critical (!) must be completed in the semester listed to ensure a timely graduation.

Semester One		Credits
!	BUS 10123 EXPLORING BUSINESS	3
!	COMM 15000 INTRODUCTION TO HUMAN COMMUNICATION (KADL)	3
	MATH 11010 ALGEBRA FOR CALCULUS (KMCR)	3
	UC 10097 DESTINATION KENT STATE: FIRST YEAR EXPERIENCE	1
	Kent Core Composition	3
	Kent Core Humanities	3
	Credit Hours	16
Semester Two		Credits
	CIS 24053 INTRODUCTION TO COMPUTER APPLICATIONS	3
!	ECON 22060 PRINCIPLES OF MICROECONOMICS (KSS)	3
	MATH 11012 INTUITIVE CALCULUS (KMCR) or ANALYTIC GEOMETRY AND CALCULUS I (KMCR) or MATH 12002	3-5
!	UC 10162 INTRODUCTION TO PROFESSIONAL DEVELOPMENT	1
	Kent Core Composition	3
	Kent Core Fine Arts	3
	Credit Hours	16
Semester Three		Credits
!	ACCT 23020 INTRODUCTION TO FINANCIAL ACCOUNTING	3
	ECON 22061 PRINCIPLES OF MACROECONOMICS (KSS)	3
	ENTR 27056 INTRODUCTION TO ENTREPRENEURSHIP	3
!	FIN 26074 LEGAL ENVIRONMENT OF BUSINESS	3
	MGMT 24163 PRINCIPLES OF MANAGEMENT	3
	Credit Hours	15
Semester Four		Credits
!	ACCT 23021 INTRODUCTION TO MANAGERIAL ACCOUNTING	3
	BUS 30062 ADVANCED PROFESSIONAL DEVELOPMENT	3
!	MGMT 24056 BUSINESS ANALYTICS I	3
	MKTG 25010 PRINCIPLES OF MARKETING	3
	Kent Core Basic Sciences with a Laboratory	3-4
	Credit Hours	15

**Semester Five**

Required for progression in the major: minimum 2.000 cumulative GPA, minimum C grade in COMM 15000, ENG 21011 (or HONR 20197) and MATH 11010

FIN 36053	BUSINESS FINANCE	3
HRM 34180	HUMAN RESOURCE MANAGEMENT or MGMT 34165 or MGMT 34185	3
MGMT 34060	OPERATIONS MANAGEMENT	3
MKTG 35035	CONSUMER BEHAVIOR or MKTG 45045	3
	or ADVERTISING AND PROMOTION MANAGEMENT	
General Elective		3
Credit Hours		15

**Semester Six**

Required for progression in the major: minimum cumulative 2.000 GPA

! FIN 36063	INDIVIDUAL INVESTMENT STRATEGIES	3
MGMT 34054	USING INFORMATION SYSTEMS FOR SOLVING BUSINESS PROBLEMS	3
Kent Core Basic Sciences		3
Kent Core Humanities or Fine Arts		3
General Elective		3
Credit Hours		15

**Semester Seven**

Required for progression in the major: minimum cumulative 2.000 GPA

ACCT 33061	FINANCIAL REPORTING ISSUES AND ANALYSIS	3
MGMT 34156	BUSINESS ANALYTICS II	3
! Major Elective		3
Kent Core Social Sciences		3
General Electives		4
Credit Hours		16

**Semester Eight**

Required for graduation: minimum cumulative 2.000 GPA and completion of the Assurance of Learning Assessment given in MGMT 44284

ECON 32025	MONEY, CREDIT AND BANKING or ECON 42075	3
MGMT 44299	MANAGEMENT CAPSTONE (ELR) (WIC)	3
General Electives		6
Credit Hours		12
Minimum Total Credit Hours:		120

## Healthcare Systems Management for Business Majors - Minor

**College of Business Administration**

Department of Management and Information Systems  
A432 Business Administration Building  
Kent Campus  
330-672-1140  
mis@kent.edu  
www.kent.edu/business/mis

## Description

The Healthcare Systems Management for Business Majors minor fills the management niche in healthcare and builds strong synergies. These synergies complement student and industry interests in healthcare systems management as a minor and builds a more marketable repertoire for students.

### Fully Offered At:

- Kent Campus

## Admission Requirements

Admission to a minor is open to students declared in a bachelor's degree, the A.A.B. or A.A.S. degree or the A.T.S. degree (not Individualized Program major). Students declared only in the A.A. or A.S. degree or the A.T.S. degree in Individualized Program may not declare a minor. Students may not pursue a minor and a major in the same discipline.

To declare the Healthcare Systems Management for Business Majors minor, students must have a minimum 2.500 overall Kent State University GPA. No Kent State University GPA is required if the student is a first-semester freshman or transfer student admitted in good standing.

Only students declared in a major in the College of Business Administration may declare this minor.

## Minor Requirements

Code	Title	Credit Hours
<b>Minor Requirements</b>		
MGMT 34157	INTRODUCTION TO HEALTHCARE SYSTEMS MANAGEMENT	3
MGMT 34158	MANAGERIAL AND TECHNOLOGICAL ASPECTS OF HEALTHCARE SYSTEMS MANAGEMENT	3
MGMT 34159	MANAGING HEALTHCARE SYSTEMS OPERATIONS	3
Minor Electives, choose from the following:		9
HRM 34180	HUMAN RESOURCE MANAGEMENT	
MGMT 44062	SUPPLY CHAIN MANAGEMENT	
MGMT 44152	PROJECT MANAGEMENT	
MGMT 44392	BUSINESS CONSULTING AND PRACTICUM (ELR)	
PH 10001	INTRODUCTION TO PUBLIC HEALTH	
Minimum Total Credit Hours:		18

## Graduation Requirements

Minimum Minor GPA	Minimum Overall GPA
2.500	2.000

- Students may not pursue a minor and major in the same discipline.
- Minimum 6 credit hours in the minor must be upper-division coursework (30000 and 40000 level).
- Minimum 6 credit hours in the minor must be outside of the course requirements for any major or other minor the student is pursuing.
- Minimum 50 percent of the total credit hours for the minor must be taken at Kent State (in residence).



# Healthcare Systems Management for Non-Business Majors - Minor

## College of Business Administration

Department of Management and Information Systems  
A432 Business Administration Building  
Kent Campus  
330-672-1140  
mis@kent.edu  
www.kent.edu/business/mis

## Description

The Healthcare Systems Management for Non-Business Majors minor fills the management niche in healthcare and builds strong synergies. These synergies complement student and industry interests in healthcare systems management as a minor and builds a more marketable repertoire for students.

### Fully Offered At:

- Kent Campus

## Admission Requirements

Admission to a minor is open to students declared in a bachelor's degree, the A.A.B. or A.A.S. degree or the A.T.S. degree (not Individualized Program major). Students declared only in the A.A. or A.S. degree or the A.T.S. degree in Individualized Program may not declare a minor. Students may not pursue a minor and a major in the same discipline.

To declare the Healthcare Systems Management for Non-Business Majors minor, students must have a minimum 2.500 overall Kent State University GPA. No Kent State University GPA is required if the student is a first-semester freshman or transfer student admitted in good standing.

Only students declared in a major outside the College of Business Administration may declare this major.

## Minor Requirements

Code	Title	Credit Hours
<b>Minor Requirements</b>		
MGMT 34157	INTRODUCTION TO HEALTHCARE SYSTEMS MANAGEMENT	3
MGMT 34158	MANAGERIAL AND TECHNOLOGICAL ASPECTS OF HEALTHCARE SYSTEMS MANAGEMENT	3
MGMT 34159	MANAGING HEALTHCARE SYSTEMS OPERATIONS	3
MGMT 44152	PROJECT MANAGEMENT	3
Minor Electives, choose from the following: 6		
ACCT 23020	INTRODUCTION TO FINANCIAL ACCOUNTING	
ECON 22060	PRINCIPLES OF MICROECONOMICS (KSS)	
ECON 42086	ECONOMICS OF HEALTH CARE	
FIN 36053	BUSINESS FINANCE	
HRM 34180	HUMAN RESOURCE MANAGEMENT	
MGMT 24163	PRINCIPLES OF MANAGEMENT	
MGMT 44062	SUPPLY CHAIN MANAGEMENT	
MKTG 25010	PRINCIPLES OF MARKETING	

PH 10001 INTRODUCTION TO PUBLIC HEALTH

Minimum Total Credit Hours:

18

## Graduation Requirements

Minimum Minor GPA	Minimum Overall GPA
2.500	2.000

- Students may not pursue a minor and major in the same discipline.
- Minimum 6 credit hours in the minor must be upper-division coursework (30000 and 40000 level).
- Minimum 6 credit hours in the minor must be outside of the course requirements for any major or other minor the student is pursuing.
- Minimum 50 percent of the total credit hours for the minor must be taken at Kent State (in residence).

## Human Resource Management - B.B.A.

### College of Business Administration

Department of Management and Information Systems  
A432 Business Administration Building  
Kent Campus  
330-672-1140  
mis@kent.edu  
www.kent.edu/business/mis

## Description

The Bachelor of Business Administration degree in Human Resource Management prepares students for leadership positions in human resource departments, including the ability to establish and advance organizational policies and guidelines and to utilize the tools and techniques for developing transformational work environments.

Students learn about employee relations; human resource planning; training and development; performance management; compensation and benefits; global human resource management; staffing, analyzing and designing jobs; strategic human resource management; human resource management analytics; and enterprise resource planning (ERP) systems. Graduates are prepared to become business leaders equipped with the ability to identify, analyze and solve complex human resource and management issues.

Human Resource Management students may apply early to the M.B.A. degree and double count 9 credit hours of graduate courses toward both degree programs. See the Combined Bachelor's/Master's Degree Program policy in the University Catalog for more information.

### Fully Offered At:

- Kent Campus

## Accreditation

The Association to Advance Collegiate Schools of Business (AACSB), International

## Admission Requirements

The university affirmatively strives to provide educational opportunities and access to students with varied backgrounds, those with special talents and adult students who graduated from high school three or more years ago.

**Freshman Students on the Kent Campus:** The freshman admission policy on the Kent Campus is selective. Admission decisions are based upon the following: cumulative grade point average, ACT and/or SAT scores, strength of high school college preparatory curriculum and grade trends. The Admissions Office at the Kent Campus may defer the admission of students who do not meet admissions criteria but who demonstrate areas of promise for successful college study. Deferred applicants may begin their college coursework at one of seven regional campuses of Kent State University. For more information on admissions, including additional requirements for some academic programs, visit the admissions website for new freshmen.

**Freshman Students on the Regional Campuses:** Kent State campuses at Ashtabula, East Liverpool, Geauga, Salem, Stark, Trumbull and Tuscarawas, as well as the Regional Academic Center in Twinsburg, have open enrollment admission for students who hold a high school diploma, GED or equivalent.

### English Language Proficiency Requirements for International Students:

All international students must provide proof of English language proficiency (unless they meet specific exceptions) by earning a minimum 525 TOEFL score (71 on the Internet-based version), minimum 75 MELAB score, minimum 6.0 IELTS score or minimum 48 PTE score, or by completing the ESL level 112 Intensive Program. For more information on international admission, visit the Office of Global Education's admission website.

**Transfer, Transitioning and Former Students:** For more information about admission criteria for transfer, transitioning and former students, please visit the admissions website.

**Transfer Student:** A minimum 2.500 overall GPA is required for admission into the College of Business Administration. Students who have previously attended Kent State and have completed COMM 15000, ENG 21011, MATH 11010 (or placement out of those courses) must have earned a minimum C grade in the course (or their equivalent).

## Program Learning Outcomes

Graduates of the program will be able to:

1. Demonstrate effective human resource management and leadership ability when presented with a human resource-related dilemma or opportunity.
2. Demonstrate understanding of the roles of analytics and ERP systems in making human resource management business decisions.
3. Identify and analyze global human resource concerns that affect business decisions.
4. Create and communicate value for all stakeholders in the organization.
5. Demonstrate knowledge of legal issues related to human resource management.

Graduates of all Bachelor of Business Administration programs will be able to:

1. Recall strategic frameworks that are used to make business decisions.
2. Perform basic calculations using quantitative tools that are used to support business decisions.
3. Articulate and deliberate their ideas in writing.
4. Articulate and deliberate their ideas orally.
5. Identify ethical dilemmas and stakeholders.
6. Recommend alternatives and consequences and choose a reasoned conclusion from the alternatives given.
7. Identify global factors in making a business decision.
8. Analyze global factors in making a business decision.

## University Requirements

All students in a bachelor's degree program at Kent State University must complete the following university requirements for graduation.

**NOTE:** University requirements may be fulfilled in this program by specific course requirements. Please see Program Requirements for details.

Destination Kent State: First Year Experience	1
Course is not required for students with 25 transfer credits, excluding College Credit Plus, or age 21+ at time of admission.	
Diversity Domestic/Global (DIVD/DIVG)	2 courses
Students must successfully complete one domestic and one global course, of which one must be from the Kent Core.	
Experiential Learning Requirement (ELR)	varies
Students must successfully complete one course or approved experience.	
Kent Core (see table below)	36-37
Writing-Intensive Course (WIC)	1 course
Students must earn a minimum C grade in the course.	
Upper-Division Requirement	39 (or 42)
Students must successfully complete 39 upper-division (numbered 30000 to 49999) credit hours to graduate. Students in a B.A. and/or B.S. degree in the College of Arts and Sciences must complete 42 upper-division credit hours.	
Total Credit Hour Requirement	120
Some bachelor's degrees require students to complete more than 120 credit hours.	

## Kent Core Requirements

Kent Core Composition (KCOMP)	6
Kent Core Mathematics and Critical Reasoning (KMCR)	3
Kent Core Humanities and Fine Arts (KHUM/KFA) (min one course each)	9
Kent Core Social Sciences (KSS) (must be from two disciplines)	6
Kent Core Basic Sciences (KBS/KLAB) (must include one laboratory)	6-7
Kent Core Additional (KADL)	6
<b>Total Credit Hours:</b>	<b>36-37</b>

## Program Requirements

### Major Requirements

Code	Title	Credit Hours
<b>Major Requirements (courses count in major GPA)</b>		
HRM 34180	HUMAN RESOURCE MANAGEMENT (min C grade) <sup>1</sup>	3
HRM 44183	DEVELOPING AND TRAINING HUMAN RESOURCES IN ORGANIZATIONS	3
HRM 44185	STAFFING HUMAN RESOURCES	3
HRM 44445	GLOBAL HUMAN RESOURCE MANAGEMENT (WIC) <sup>2</sup>	3
HRM 44492	BUSINESS EXPERIENCE AND INTERNSHIP IN HUMAN RESOURCE MANAGEMENT (ELR)	3
or HRM 44499	HUMAN RESOURCE BUSINESS CONSULTING AND PROJECTS (ELR)	3
HRM 44660	PERFORMANCE MANAGEMENT AND COMPENSATION SYSTEMS	3
HRM 44763	HUMAN RESOURCE ANALYTICS AND ERP SYSTEMS	3
MGMT 34185	INDIVIDUAL AND GROUP BEHAVIOR IN ORGANIZATIONS	3
Major Elective, choose from the following:		6
HRM 34092	PRACTICUM CAREER DEVELOPMENT (ELR)	
HRM 34187	INTERNATIONAL EXPERIENCE IN HUMAN RESOURCE MANAGEMENT	
HRM 44091	SEMINAR IN HUMAN RESOURCE MANAGEMENT	
HRM 44492	BUSINESS EXPERIENCE AND INTERNSHIP IN HUMAN RESOURCE MANAGEMENT (ELR) <sup>3</sup>	
or HRM 44499	HUMAN RESOURCE BUSINESS CONSULTING AND PROJECTS (ELR)	
MGMT 34164	ORGANIZATIONAL MENTORING	
MGMT 34165	DYNAMICS OF LEADERSHIP	
MGMT 34175	LEARNING TO LEAD	
<b>Additional Requirements (courses do not count in major GPA)</b>		
ACCT 23020	INTRODUCTION TO FINANCIAL ACCOUNTING	3
ACCT 23021	INTRODUCTION TO MANAGERIAL ACCOUNTING	3
BUS 10123	EXPLORING BUSINESS <sup>4</sup>	3
BUS 30062	ADVANCED PROFESSIONAL DEVELOPMENT	3
CIS 24053	INTRODUCTION TO COMPUTER APPLICATIONS	3
COMM 15000	INTRODUCTION TO HUMAN COMMUNICATION (KADL) (min C grade)	3
ECON 22060	PRINCIPLES OF MICROECONOMICS (KSS)	3
ECON 22061	PRINCIPLES OF MACROECONOMICS (KSS)	3
FIN 26074	LEGAL ENVIRONMENT OF BUSINESS	3
FIN 36053	BUSINESS FINANCE	3
MATH 11010	ALGEBRA FOR CALCULUS (KMCR) (min C grade)	3
MATH 11012	INTUITIVE CALCULUS (KMCR)	3
or MATH 12002	ANALYTIC GEOMETRY AND CALCULUS I (KMCR)	3
MGMT 24056	BUSINESS ANALYTICS I <sup>5</sup>	3
MGMT 24163	PRINCIPLES OF MANAGEMENT	3
MGMT 34060	OPERATIONS MANAGEMENT	3
MGMT 44285	INTEGRATED BUSINESS POLICY AND STRATEGY	3
MKTG 25010	PRINCIPLES OF MARKETING	3

UC 10097	DESTINATION KENT STATE: FIRST YEAR EXPERIENCE	1
UC 10162	INTRODUCTION TO PROFESSIONAL DEVELOPMENT	1
Kent Core Composition (min C grade) <sup>6</sup>		6
Kent Core Humanities and Fine Arts (minimum one course from each)		9
Kent Core Social Sciences		3
Kent Core Basic Sciences (must include one laboratory)		6-7
General Electives (total credit hours depends on earning 120 credit hours including 39 upper-division credit hours) <sup>7</sup>		13
Minimum Total Credit Hours:		120

- Students who complete BMRT 31006 as an associate degree student or at a Kent State regional campus may substitute it for HRM 34180.
- A minimum C grade is required to fulfill the writing intensive requirement.
- Course used to fulfill Major Requirements may not be used to fulfill Major Elective requirements.
- A student changing to the College of Business Administration or transferring may be waived out of BUS 10123 if:
  - 30 or more credit hours have been earned and any two classes (from ACCT 23020, ACCT 23021, FIN 26074, MGMT 24163, MKTG 25010 or CIS 24053) have successfully been completed.
  - 60 or more credit hours have been earned and the student has successfully completed one course (from ACCT 23020, ACCT 23021, FIN 26074, MGMT 24163, MKTG 25010 or CIS 24053)
  - At the discretion of the college dean's office, the student has sufficient breadth and depth of knowledge in a business field (as demonstrated by a CLEP score or Credit by Exam) but does not meet the requirements listed above.
- Students who have taken MATH 10041 for another program may use it as a substitute for MGMT 24056.
- Minimum C grade in ENG 21011 or HONR 20197.
- Maximum 4 credit hours of Physical Activity, Wellness and Sport (PWS) courses allowed.

### Progression Requirements

- Minimum 2.500 overall GPA
- Minimum C grade COMM 15000, ENG 21011, HRM 34180 and MATH 11010.

### Graduation Requirements

Minimum Major GPA	Minimum Overall GPA
2.500	2.500

- Students must complete at least 50 percent of business credit hours (required for the business degree) in-residence on a Kent State University campus.
- Students must complete two measures of outcomes assessment as specified by the College of Business Administration for complete satisfaction of the B.B.A. degree.
- Maximum 4 credit hours of Physical Activity, Wellness and Sport (PWS) courses may be applied toward the degree program.

## Roadmap

This roadmap is a recommended semester-by-semester plan of study for this major. However, courses designated as critical (!) must be completed in the semester listed to ensure a timely graduation.

<b>Semester One</b>		<b>Credits</b>
BUS 10123	EXPLORING BUSINESS	3
COMM 15000	INTRODUCTION TO HUMAN COMMUNICATION (KADL)	3
MATH 11010	ALGEBRA FOR CALCULUS (KMCR)	3
UC 10097	DESTINATION KENT STATE: FIRST YEAR EXPERIENCE	1
Kent Core Composition		3
Kent Core Humanities or Fine Arts		3
Credit Hours		16
<b>Semester Two</b>		
CIS 24053	INTRODUCTION TO COMPUTER APPLICATIONS	3
ECON 22060	PRINCIPLES OF MICROECONOMICS (KSS)	3
MATH 11012	INTUITIVE CALCULUS (KMCR)	3
or	or ANALYTIC GEOMETRY AND CALCULUS I (KMCR)	
MATH 12002		
UC 10162	INTRODUCTION TO PROFESSIONAL DEVELOPMENT	1
Kent Core Composition		3
Kent Core Fine Arts		3
Credit Hours		16
<b>Semester Three</b>		
ACCT 23020	INTRODUCTION TO FINANCIAL ACCOUNTING	3
ECON 22061	PRINCIPLES OF MACROECONOMICS (KSS)	3
FIN 26074	LEGAL ENVIRONMENT OF BUSINESS	3
MGMT 24163	PRINCIPLES OF MANAGEMENT	3
Kent Core Basic Sciences		3
Credit Hours		15
<b>Semester Four</b>		
ACCT 23021	INTRODUCTION TO MANAGERIAL ACCOUNTING	3
BUS 30062	ADVANCED PROFESSIONAL DEVELOPMENT	3
MGMT 24056	BUSINESS ANALYTICS I	3
MKTG 25010	PRINCIPLES OF MARKETING	3
Kent Core Humanities		3
Credit Hours		15
<b>Semester Five</b>		
Required for progression in the major: minimum 2.500 overall GPA, minimum C grade in COMM 15000, ENG 21011, MATH 11010 and HRM 34180.		
FIN 36053	BUSINESS FINANCE	3
HRM 34180	HUMAN RESOURCE MANAGEMENT	3
MGMT 34060	OPERATIONS MANAGEMENT	3
Kent Core Basic Sciences		3
Kent Core Social Sciences		3
Credit Hours		15
<b>Semester Six</b>		
Required: minimum overall 2.500 GPA		
HRM 44763	HUMAN RESOURCE ANALYTICS AND ERP SYSTEMS	3
MGMT 34185	INDIVIDUAL AND GROUP BEHAVIOR IN ORGANIZATIONS	3
Major Elective		3

General Electives		6
Credit Hours		15
<b>Semester Seven</b>		
Required: minimum overall 2.500 GPA		
HRM 44183	DEVELOPING AND TRAINING HUMAN RESOURCES IN ORGANIZATIONS	3
HRM 44185	STAFFING HUMAN RESOURCES	3
HRM 44660	PERFORMANCE MANAGEMENT AND COMPENSATION SYSTEMS	3
Major Elective		3
General Elective		3
Credit Hours		15
<b>Semester Eight</b>		
Required: minimum overall 2.500 GPA and completion of the Assurance of Learning Assessment given in MGMT 44285.		
HRM 44445	GLOBAL HUMAN RESOURCE MANAGEMENT (WIC)	3
HRM 44492	BUSINESS EXPERIENCE AND INTERNSHIP IN HUMAN RESOURCE MANAGEMENT (ELR)	3
or	or HUMAN RESOURCE BUSINESS CONSULTING AND PROJECTS (ELR)	
HRM 44499		
MGMT 44285	INTEGRATED BUSINESS POLICY AND STRATEGY	3
General Electives		4
Credit Hours		13
Minimum Total Credit Hours:		120

## Human Resource Management - Minor

### College of Business Administration

Department of Management and Information Systems  
A432 Business Administration Building  
Kent Campus  
330-672-1140  
mis@kent.edu  
www.kent.edu/business/mis

## Description

The Human Resource Management minor focuses on the competitive advantage derived from the more effective use of human resource management policies, practices and procedures. The minor is relevant to a variety of students who want to learn to better manage a company's human resources in many positions after graduation, including line managers who need to implement human resource policies as they hire and manage the performance of their employees; entrepreneurs who need a fundamental knowledge of human resources management to run their companies more effectively; and members of not-for-profit organizations who need to understand the basics because they rarely are able to hire human resources staff.

The Human Resource Management minor covers a range of topic areas taught from both theoretical and applied perspectives. Students are exposed to a wide array of human resource functional areas, including staffing, performance management, training, compensation, human resource information systems and employer-employee rights and responsibilities.

**Fully Offered At:**

- Kent Campus

**Admission Requirements**

Admission to a minor is open to students declared in a bachelor's degree, the A.A.B. or A.A.S. degree or the A.T.S. degree (not Individualized Program major). Students declared only in the A.A. or A.S. degree or the A.T.S. degree in Individualized Program may not declare a minor. Students may not pursue a minor and a major in the same discipline.

To declare the Human Resources minor, students must have a minimum 2.500 overall Kent State University GPA. No Kent State University GPA is required if the student is a first-semester freshman or transfer student admitted in good standing.

**Minor Requirements**

Code	Title	Credit Hours
<b>Minor Requirements</b>		
HRM 34180	HUMAN RESOURCE MANAGEMENT	3
MGMT 24163	PRINCIPLES OF MANAGEMENT	3
MGMT 34165	DYNAMICS OF LEADERSHIP	3
or MGMT 34175	LEARNING TO LEAD	
or MGMT 34185	INDIVIDUAL AND GROUP BEHAVIOR IN ORGANIZATIONS	
Minor Electives, choose from the following:		9
HRM 44091	SEMINAR IN HUMAN RESOURCE MANAGEMENT	
HRM 44183	DEVELOPING AND TRAINING HUMAN RESOURCES IN ORGANIZATIONS	
HRM 44185	STAFFING HUMAN RESOURCES	
HRM 44499	HUMAN RESOURCE BUSINESS CONSULTING AND PROJECTS (ELR)	
HRM 44660	PERFORMANCE MANAGEMENT AND COMPENSATION SYSTEMS	
HRM 44763	HUMAN RESOURCE ANALYTICS AND ERP SYSTEMS	
Minimum Total Credit Hours:		18

**Graduation Requirements**

Minimum Minor GPA	Minimum Overall GPA
2.500	2.000

- Students should plan on four semesters to complete this minor due to sequencing and availability of courses.
- Students may not pursue a minor and major in the same discipline.
- Minimum 6 credit hours in the minor must be upper-division coursework (30000 and 40000 level).
- Minimum 6 credit hours in the minor must be outside of the course requirements for any major or other minor the student is pursuing.
- Minimum 50 percent of the total credit hours for the minor must be taken at Kent State (in residence).

**International Business for Business Majors - Minor****College of Business Administration**

Department of Management and Information Systems  
A432 Business Administration Building  
Kent Campus  
330-672-1140  
mis@kent.edu  
www.kent.edu/business/mis

**Description**

The International Business minor introduces students to cultural issues of a broad, global nature. Students are encouraged to participate in study-abroad programs to complement their studies. Global business is fast becoming an important part of the U.S. economy. The world that college graduates are facing will essentially be a borderless world. This suggests a need to be trained for employment that will have international implications. Whether students take a major in business, fashion design and merchandising, the hard sciences, English or education, some training in global outreach, cultural diversity and 'business cultures' will be necessary.

**Fully Offered At:**

- Kent Campus

**Admission Requirements**

Admission to a minor is open to students declared in a bachelor's degree, the A.A.B. or A.A.S. degree or the A.T.S. degree (not Individualized Program major). Students declared only in the A.A. or A.S. degree or the A.T.S. degree in Individualized Program may not declare a minor. Students may not pursue a minor and a major in the same discipline.

- To declare the minor, students must have a minimum 2.500 overall Kent State University GPA. No Kent State University GPA is required if the student is a first-semester freshman or transfer student admitted in good standing.

**Minor Requirements**

Code	Title	Credit Hours
<b>Minor Requirements</b>		
BUS 30234	INTERNATIONAL BUSINESS	3
ECON 42075	INTERNATIONAL ECONOMIC RELATIONS	3
or FIN 46064	INTERNATIONAL BUSINESS FINANCE	
or MKTG 45060	INTERNATIONAL MARKETING	
Global Experience (study abroad, internship abroad, global internship) <sup>1</sup>		3
For study abroad, choose from the following:		
ACCT 43087	INTERNATIONAL ACCOUNTING EXPERIENCE	
BUS 30187	INTERNATIONAL BUSINESS EXPERIENCE	
ECON 42187	INTERNATIONAL ECONOMIC EXPERIENCE	
ENTR 47187	INTERNATIONAL EXPERIENCE IN ENTREPRENEURSHIP	
FIN 46087	INTERNATIONAL FINANCE EXPERIENCE	
HRM 34187	INTERNATIONAL EXPERIENCE IN HUMAN RESOURCE MANAGEMENT	
MGMT 44187	INTERNATIONAL MANAGEMENT EXPERIENCE	



MKTG 45187	INTERNATIONAL EXPERIENCE IN MARKETING	
Language Requirement, choose from the following:		3-11
Three courses from a single foreign language		
Two courses in two foreign languages		
Interagency Language Roundtable (ILR) Level One competency <sup>2</sup>		
Minimum Total Credit Hours:		12-20

- <sup>1</sup> Students who study abroad and take at least one business course can use any other courses taken for their program (such as Kent Core) to satisfy the global experience.
- <sup>2</sup> As determined by an international business faculty advisor in consultation with the appropriate language faculty member. Generally this proficiency can be achieved by completion of the Intermediate I level of a foreign language. If the student has achieved foreign language competency without earning credit hours, then the student must choose from the following:
- another course from the minor elective choices not taken to satisfy the the minor; or
  - an additional foreign language course.

## Graduation Requirements

Minimum Minor GPA	Minimum Overall GPA
2.500	2.000

- Students with an interest in this minor are encouraged to take as their Kent Core Social Sciences at least one of the following courses: GEOG 17063, POL 10004 and/or POL 10500.
- Satisfaction of all courses prerequisites is required.
- Students may not pursue a minor and major in the same discipline.
- Minimum 6 credit hours in the minor must be upper-division coursework (30000 and 40000 level).
- Minimum 6 credit hours in the minor must be outside of the course requirements for any major or other minor the student is pursuing.
- Minimum 50 percent of the total credit hours for the minor must be taken at Kent State (in residence).

## International Business for Non-Business Majors - Minor

### College of Business Administration

Department of Management and Information Systems  
 A432 Business Administration Building  
 Kent Campus  
 330-672-1140  
 mis@kent.edu  
 www.kent.edu/business/mis

## Description

The International Business minor introduces students to cultural issues of a broad, global nature. Students are encouraged to participate in study-abroad programs to complement their studies. Global business is fast becoming an important part of the U.S. economy. The world that college graduates are facing will essentially be a borderless world. This suggests a need to be trained for employment that will have international implications. Whether students take a major in business, fashion design

and merchandising, the hard sciences, English or education, some training in global outreach, cultural diversity and "business cultures" will be necessary.

## Fully Offered At:

- Kent Campus

## Admission Requirements

Admission to a minor is open to students declared in a bachelor's degree, the A.A.B. or A.A.S. degree or the A.T.S. degree (not Individualized Program major). Students declared only in the A.A. or A.S. degree or the A.T.S. degree in Individualized Program may not declare a minor. Students may not pursue a minor and a major in the same discipline.

- To declare the minor, students must have a minimum 2.500 overall Kent State University GPA. No Kent State University GPA is required if the student is a first-semester freshman or transfer student admitted in good standing.

## Minor Requirements

Code	Title	Credit Hours
<b>Minor Requirements</b>		
ACCT 23020	INTRODUCTION TO FINANCIAL ACCOUNTING	3
BUS 30234	INTERNATIONAL BUSINESS	3
ECON 22060	PRINCIPLES OF MICROECONOMICS (KSS)	3
ECON 22061	PRINCIPLES OF MACROECONOMICS (KSS)	3
ECON 42075	INTERNATIONAL ECONOMIC RELATIONS	3
or FIN 46064	INTERNATIONAL BUSINESS FINANCE	
or MKTG 45060	INTERNATIONAL MARKETING	
FIN 36053	BUSINESS FINANCE	3
MKTG 25010	PRINCIPLES OF MARKETING	3
Global Experience (study abroad, internship abroad or global internship) <sup>1</sup>		3
For study abroad, choose from the following:		
ACCT 43087	INTERNATIONAL ACCOUNTING EXPERIENCE	
BUS 30187	INTERNATIONAL BUSINESS EXPERIENCE	
ECON 42187	INTERNATIONAL ECONOMIC EXPERIENCE	
ENTR 47187	INTERNATIONAL EXPERIENCE IN ENTREPRENEURSHIP	
FIN 46087	INTERNATIONAL FINANCE EXPERIENCE	
HRM 34187	INTERNATIONAL EXPERIENCE IN HUMAN RESOURCE MANAGEMENT	
MGMT 44187	INTERNATIONAL MANAGEMENT EXPERIENCE	
MKTG 45187	INTERNATIONAL EXPERIENCE IN MARKETING	
Language Requirement, choose from the following:		0-11
Courses on a single foreign language		
Two courses in two foreign languages		
Interagency Language Roundtable (ILR) Level One competency <sup>2</sup>		
Minimum Total Credit Hours:		24-35

- <sup>1</sup> Students who study aboard and take at least one business course can use any other courses taken for their program (such as Kent Core) to satisfy the global experience.
- <sup>2</sup> As determined by an international business faculty advisor in consultation with the appropriate language faculty member. Generally, this proficiency can be achieved by completion of the Intermediate I level of a foreign language.

## Graduation Requirements

Minimum Minor GPA	Minimum Overall GPA
2.500	2.000

- Students with an interest in this minor are encouraged to take as their Kent Core Social Sciences at least one of the following courses: GEOG 17063, POL 10004 and/or POL 10500.
- Satisfaction of all course prerequisites is required.
- Students may not pursue a minor and major in the same discipline.
- Minimum 6 credit hours in the minor must be upper-division coursework (30000 and 40000 level).
- Minimum 6 credit hours in the minor must be outside of the course requirements for any major or other minor the student is pursuing.
- Minimum 50 percent of the total credit hours for the minor must be taken at Kent State (in residence).

## Leadership - Minor

### College of Business Administration

Department of Management and Information Systems  
A432 Business Administration Building  
Kent Campus  
330-672-1140  
mis@kent.edu  
www.kent.edu/business/mis

## Description

Responsible leadership involves making sustainable business decisions that consider the interests of all stakeholders including employees, clients, suppliers, customers, society, the environment and future generations. Addressing these varied and often conflicting concerns requires skill.

The purpose of this minor is to provide students skills in understanding the business environment as a system of interrelated and interdependent parts, how to analyze the system to identify opportunities and challenges for addressing stakeholder concerns and skills for influencing others to work toward sustainable practices.

### Fully Offered At:

- Kent Campus

## Admission Requirements

Admission to a minor is open to students declared in a bachelor's degree, the A.A.B. or A.A.S. degree or the A.T.S. degree (not Individualized Program major). Students declared only in the A.A. or A.S. degree or the A.T.S. degree in Individualized Program may not declare a minor. Students may not pursue a minor and a major in the same discipline.

- To declare the minor, students must have a minimum 2.500 overall Kent State University GPA. No Kent State University GPA is required if the student is a first-semester freshman or transfer student admitted in good standing.

## Minor Requirements

Code	Title	Credit Hours
<b>Minor Requirements</b>		
MGMT 24163	PRINCIPLES OF MANAGEMENT	3
MGMT 34165	DYNAMICS OF LEADERSHIP	3
PACS 11001	INTRODUCTION TO CONFLICT MANAGEMENT (DIVD) (KSS)	3
or COMM 25863	BUSINESS AND PROFESSIONAL COMMUNICATION	
or MGMT 34175	LEARNING TO LEAD	
or MGMT 44395	SPECIAL TOPICS IN MANAGEMENT	
Management and Information Systems (MIS) Electives, choose from the following:		6
MGMT 34164	ORGANIZATIONAL MENTORING	
MGMT 34280	ORGANIZATIONAL CHANGE MANAGEMENT	
MGMT 44009	THE BUSINESS CASE FOR SUSTAINABILITY	
Minimum Total Credit Hours:		15

## Graduation Requirements

Minimum Minor GPA	Minimum Overall GPA
2.500	2.000

- Minimum 6 credit hours in the minor must be upper-division coursework (30000 and 40000 level).
- Minimum 6 credit hours in the minor must be outside of the course requirements for any major or other minor the student is pursuing.
- Minimum 50 percent of the total credit hours for the minor must be taken at Kent State (in residence).

## Management for Business Majors - Minor

### College of Business Administration

Department of Management and Information Systems  
A432 Business Administration Building  
Kent Campus  
330-672-1140  
mis@kent.edu  
www.kent.edu/business/mis

## Description

The Management minor provides a basic core of management courses, with emphasis on strategic management, leadership and the management of employees. Students gain an overview of managerial functions and expertise that will add value to the career preparations provided by their major programs.

### Fully Offered At:

- Ashtabula Campus
- Kent Campus
- Stark Campus
- Trumbull Campus

## Admission Requirements

Admission to a minor is open to students declared in a bachelor's degree, the A.A.B. or A.A.S. degree or the A.T.S. degree (not Individualized Program major). Students declared only in the A.A. or A.S. degree or the A.T.S. degree in Individualized Program may not declare a minor. Students may not pursue a minor and a major in the same discipline.

- To declare the minor, students must have a minimum 2.500 overall Kent State University GPA. No Kent State University GPA is required if the student is a first-semester freshman or transfer student admitted in good standing.
- Students in the Business Management major may not declare this minor or the Management for Non-Business Major minor.

## Minor Requirements

Code	Title	Credit Hours
<b>Minor Requirements</b>		
COMM 20001 or COMM 25863	INTERPERSONAL COMMUNICATION BUSINESS AND PROFESSIONAL COMMUNICATION	3
ENG 30064 or ENG 30065	ARGUMENTATIVE PROSE WRITING EXPOSITORY PROSE WRITING	3
HRM 34180	HUMAN RESOURCE MANAGEMENT	3
MGMT 34054 or MGMT 34185	USING INFORMATION SYSTEMS FOR SOLVING BUSINESS PROBLEMS INDIVIDUAL AND GROUP BEHAVIOR IN ORGANIZATIONS	3
MGMT 34165 or MGMT 34175	DYNAMICS OF LEADERSHIP LEARNING TO LEAD	3
PSYC 31282 or PSYC 31773	PERSONALITY INDUSTRIAL PSYCHOLOGY	3
Minimum Total Credit Hours:		18

## Graduation Requirements

Minimum Minor GPA	Minimum Overall GPA
2.500	2.000

- Students may not pursue a minor and major in the same discipline.
- Minimum 6 credit hours in the minor must be upper-division coursework (30000 and 40000 level).
- Minimum 6 credit hours in the minor must be outside of the course requirements for any major or other minor the student is pursuing.
- Minimum 50 percent of the total credit hours for the minor must be taken at Kent State (in residence).

## Management for Non-Business Majors - Minor

### College of Business Administration

Department of Management and Information Systems  
A432 Business Administration Building  
Kent Campus  
330-672-1140  
mis@kent.edu  
www.kent.edu/business/mis

## Description

The Management minor provides a basic core of management courses, with emphasis on strategic management, leadership and the management of employees. Students gain an overview of managerial functions and expertise that will add value to the career preparations provided by their major programs.

### Fully Offered At:

- Ashtabula Campus
- Geauga Campus
- Kent Campus
- Stark Campus
- Trumbull Campus
- Tuscarawas Campus

## Admission Requirements

Admission to a minor is open to students declared in a bachelor's degree, the A.A.B. or A.A.S. degree or the A.T.S. degree (not Individualized Program major). Students declared only in the A.A. or A.S. degree or the A.T.S. degree in Individualized Program may not declare a minor. Students may not pursue a minor and a major in the same discipline.

- To declare the minor, students must have a minimum 2.500 overall Kent State University GPA. No Kent State University GPA is required if the student is a first-semester freshman or transfer student admitted in good standing.
- Students in the Business Management major may not declare this minor or the Management for Business Major minor.

## Minor Requirements

Code	Title	Credit Hours
<b>Minor Requirements</b>		
ACCT 23020	INTRODUCTION TO FINANCIAL ACCOUNTING	3
HRM 34180	HUMAN RESOURCE MANAGEMENT	3
MGMT 24163	PRINCIPLES OF MANAGEMENT	3
MGMT 34165 or MGMT 34175	DYNAMICS OF LEADERSHIP LEARNING TO LEAD	3
Curricular Areas (maximum one course per curricular area), choose from the following:		6
ACCT 23021	INTRODUCTION TO MANAGERIAL ACCOUNTING	
COMM 20001 or COMM 25863	INTERPERSONAL COMMUNICATION BUSINESS AND PROFESSIONAL COMMUNICATION	
ECON 22060 or ECON 22061	PRINCIPLES OF MICROECONOMICS (KSS) PRINCIPLES OF MACROECONOMICS (KSS)	
FIN 36053	BUSINESS FINANCE	
MGMT 34054 or MGMT 34185	USING INFORMATION SYSTEMS FOR SOLVING BUSINESS PROBLEMS INDIVIDUAL AND GROUP BEHAVIOR IN ORGANIZATIONS	
MKTG 25010	PRINCIPLES OF MARKETING	
Minimum Total Credit Hours:		18

## Graduation Requirements

Minimum Minor GPA	Minimum Overall GPA
2.500	2.000

- Students may not pursue a minor and major in the same discipline.
- Minimum 6 credit hours in the minor must be upper-division coursework (30000 and 40000 level).
- Minimum 6 credit hours in the minor must be outside of the course requirements for any major or other minor the student is pursuing.
- Minimum 50 percent of the total credit hours for the minor must be taken at Kent State (in residence).

## Military and Leadership Studies - Minor

### College of Business Administration

Department of Management and Information Systems  
 A432 Business Administration Building  
 Kent Campus  
 330-672-1140  
 mis@kent.edu  
 www.kent.edu/business/mis

## Description

Leadership styles, organizational structure and behavior and a global perspective form the common ground between the military and business. The Military and Leadership Studies minor provides an overview of management, leadership and international business. Students will gain military perspective through hands-on experience as well as coursework. The interdisciplinary minor is open to all students.

A minor in Military and Leadership Studies allows students who have completed specialized ROTC or military service courses to receive credit for this training. Normally, these courses are applied as electives within a degree program. The minor provides proof on a student's transcript that they have specialized in the area of Military and Leadership Studies.

### Fully Offered At:

- Kent Campus

## Admission Requirements

Admission to a minor is open to students declared in a bachelor's degree, the A.A.B. or A.A.S. degree or the A.T.S. degree (not Individualized Program major). Students declared only in the A.A. or A.S. degree or the A.T.S. degree in Individualized Program may not declare a minor. Students may not pursue a minor and a major in the same discipline.

## Minor Requirements

Code	Title	Credit Hours
<b>Minor Requirements</b>		
MGMT 24163	PRINCIPLES OF MANAGEMENT	3
MGMT 34165	DYNAMICS OF LEADERSHIP	3
Aerospace Studies (ASTU), Military Science (MSCI) or Military Credit Electives		6
Leadership Electives, choose from the following:		3
HRM 34180	HUMAN RESOURCE MANAGEMENT	
MGMT 34175	LEARNING TO LEAD	

MGMT 34185	INDIVIDUAL AND GROUP BEHAVIOR IN ORGANIZATIONS	
MGMT 44152	PROJECT MANAGEMENT	
Military History Electives, choose from the following:		3
HIST 31024	WORLD WAR II	
HIST 31035	THE GLOBAL COLD WAR	
HIST 31072	US FOREIGN RELATIONS, 1898-1945	
HIST 31073	US FOREIGN RELATIONS SINCE 1945	
HIST 31102	WAR AND SOCIETY IN THE UNITED STATES FROM 1865 TO THE PRESENT	
HIST 31118	VIETNAM WAR	
HIST 31120	COMPARATIVE THIRD WORLD REVOLUTIONS	
HIST 31123	HISTORY OF POST COLONIAL AFRICA	
HIST 41024	MODERN EUROPEAN HISTORY, 1914-1945	
HIST 41045	MODERN RUSSIA, 1917-PRESENT	
HIST 41057	EIGHTEENTH-CENTURY AMERICA:1714-1789 (DIVD)	
HIST 41129	THE HOLOCAUST:THE DESTRUCTION OF EUROPEAN JEWRY, 1938-1945	
POL 40530	POLITICS OF WAR	

Minimum Total Credit Hours: 18

## Graduation Requirements

Minimum Minor GPA	Minimum Overall GPA
2.000	2.000

- Military Science and Aerospace Studies Professors may grant access to junior and senior level courses for non-ROTC students who are pursuing a Military and Leadership Studies minor and who are not contracted ROTC students.
- Minimum 6 credit hours in the minor must be upper-division coursework (30000 and 40000 level).
- Minimum 6 credit hours in the minor must be outside of the course requirements for any major or other minor the student is pursuing.
- Minimum 50 percent of the total credit hours for the minor must be taken at Kent State (in residence).

## Department of Marketing and Entrepreneurship

### College of Business Administration

Department of Marketing and Entrepreneurship  
 534 Business Administration Building  
 Kent Campus  
 330-672-2170  
 marketing@kent.edu  
 www.kent.edu/business/marketing

## Undergraduate Programs

- Entrepreneurship - B.B.A.
- Managerial Marketing - B.B.A.
- Marketing - B.B.A.

## Minors

### Undergraduate

- Entrepreneurship for Business Majors
- Entrepreneurship for Non-Business Majors
- Marketing

### Graduate

- Doctoral Marketing

## Certificates

### Undergraduate Certificates

- Professional Sales

## Department of Marketing and Entrepreneurship Faculty

- Bridges, Eileen (1994), Professor, Ph.D., Northwestern University, 1987
- Daniels, Ellen P. (1981), Associate Lecturer, M.B.A., Baldwin-Wallace College, 1979
- Easterling, Denise M. (2009), Lecturer, M.B.A., Ashland University, 2006
- Grimm, Pamela E. (1992), Professor, Ph.D., State University of New York, Buffalo, 1993
- Groening, Christopher (2013), Associate Professor
- Heidler, Mary R. (2011), Associate Lecturer, M.B.A., American University, 1995
- Hisrich, Robert D. (2015), Professor & Director, Ph.D., University of Cincinnati, 1971
- Howell, William P. (1986), Associate Professor, Ph.D., Kent State University, 1996
- Hsieh, Meng-Hua (2018), Assistant Professor, Ph.D., University of Washington, 2013
- Jewell, Robert D. (2004), Professor & Department Chair, Ph.D., Ohio University, 1999
- Knapp-Blay, Kelly A. (2016), Lecturer, Bowling Green State University, 1997
- Lee, Denise M. (2009), Associate Lecturer, M.B.A., Ashland University, 2006
- Liu, Kun (2018), Assistant Professor
- Marks, Lawrence J. (1986), Professor
- Mayo, Michael A. (1985), Professor
- Mohammadi Darani, Milad (2019), Assistant Professor, Ph.D., Texas A&M University, Main Camp, 2019
- Sokira, Walter J. (2003), Lecturer, M.B.A., Kent State University, 1991
- Stettler, Tatiana R. (2015), Assistant Professor, Ph.D., University of Bern, 2014
- Thacker, Donald (1998), Senior Lecturer, M.B.A., Kent State University, 1996
- Wang, Tuo (2004), Associate Professor, Ph.D., University of Pittsburgh, 2004
- Wiggins-Lyndall, Jennifer A. (2006), Associate Professor, Ph.D., University of Wisconsin, Madison, 2006
- Zourrig, Haithem (2016), Assistant Professor, Ph.D., University of Montreal, 2010

## Entrepreneurship (ENTR)

### ENTR 17001 START-UP ENTREPRENEURS 1 Credit Hour

This course enables students to learn about entrepreneurship directly from firsthand knowledge and experience drawn from a wide variety of successful real-world entrepreneurs. Throughout the course, those who have transformed a simple idea into a sustainable success share the beliefs and behaviors that helped them build a thriving new entity. Students will not receive graduation credit for both ENTR 17001 and ENTR 17002.

**Prerequisite:** Non-entrepreneurship majors or minors only (neither entrepreneurship majors nor entrepreneurship minors will receive credit for ENTR 17001 towards their degree).

**Schedule Type:** Lecture

**Contact Hours:** 1 lecture

**Grade Mode:** Standard Letter

### ENTR 17002 ENTREPRENEURIAL MINDSET 2 Credit Hours

This course engages students in the study of the fundamental aspects of the entrepreneurial mindset. The course enables students to learn about entrepreneurship directly from firsthand knowledge and experience drawn from a wide variety of successful real-world entrepreneurs. The course next guides each student through the process of developing an entrepreneurial mindset. Finally, each student then uses the entrepreneurial mindset to recognize and evaluate opportunities in his or her own life, regardless of the student's chosen career path. Students will not receive graduation credit for both ENTR 17001 and ENTR 17002.

**Prerequisite:** Non-entrepreneurship majors or minors only (neither entrepreneurship majors nor entrepreneurship minors will receive credit for ENTR 17002 towards their degree).

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

### ENTR 27056 INTRODUCTION TO ENTREPRENEURSHIP 3 Credit Hours

The study of the entrepreneurial process from conception to birth of a new venture. This includes attributes of successful entrepreneurs, opportunity recognition, innovation, venture screening, risk assessment, risk tolerance, identification of resources and business planning to learn how to turn opportunities into viable business.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

### ENTR 27192 BEGINNING PRACTICUM (ELR) 1-4 Credit Hours

(Repeatable for a maximum of 4 credit hours) This course offers the student a chance to explore the operations within an entrepreneurial venture through a real life consulting project. Students will work on a defined project for a small business or startup. Faculty and staff of the Center for Entrepreneurship and Business Innovation (CEBI) will be responsible for pairing students with projects. The time commitment for this course is approximately 50 hours per credit hour.

**Prerequisite:** ENTR 27056 with a minimum C grade.

**Schedule Type:** Practical Experience

**Contact Hours:** 1-4 other

**Grade Mode:** Standard Letter

**Attributes:** Experiential Learning Requirement



**ENTR 27466 SPEAKER SERIES IN ENTREPRENEURSHIP 1 Credit Hour**

Explores entrepreneurship based upon the experiences of a broad range of entrepreneurs. During the semester, at least eight entrepreneurs will share their paths in establishing a successful enterprise, including some of the obstacles and missteps they made along the way. This course is also offered in an online format.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 1 lecture

**Grade Mode:** Standard Letter

**ENTR 37040 ENTREPRENEURIAL TOOLS 3 Credit Hours**

Provides an overview of the analytical, communication, and decision-making skills that students will need to succeed in subsequent coursework and as an entrepreneur. Topics include strategic analysis, financial analysis, case analysis, decision-making, and persuasive communications. Incorporates professional development skills and opportunities. 2.5 overall GPA; and Entrepreneurship major or minor; or Arts Entrepreneurship minor

**Prerequisite:** ENTR 27056 with a minimum C grade; minimum 2.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ENTR 37045 SALES IN THE ENTREPRENEURIAL VENTURE 3 Credit Hours**

Selling and the management of the sales force in the entrepreneurial environment. Special focus is given to enhancing students' selling skills and background in developing an effective sales force for an entrepreneurial organization.

**Prerequisite:** ENTR 27056; and minimum 2.25 overall GPA; and Entrepreneurship major or minor.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ENTR 37065 ENTREPRENEURIAL FINANCE 3 Credit Hours**

Students are introduced to the key elements of finances in an entrepreneurial environment. The course is a mix of strategy and operating considerations for early stage businesses. Concepts that are taught include sources of capital, the economic ecosystem, core and adjacency strategies, strategy pivots, customer value creation and switching costs, pricing models, operating costs, cash flow planning, revenue forecasts and financial projections, private and public company analysis, and franchise evaluation. At the end of the course students should be able to think critically about business and make critical strategic evaluations during the course of a business lifecycle.

**Prerequisite:** ECON 22060 and ENTR 27056; minimum 2.25 overall GPA; and Entrepreneurship major or minor.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ENTR 37070 SOCIAL ENTREPRENEURSHIP 3 Credit Hours**

Social entrepreneurs create innovative solutions to solve challenging social and environmental issues affecting the world around them. In this course, students will learn how to lead and manage charities, non-government organizations, social oriented enterprises and not for profit organizations. Students will apply entrepreneurial business and innovative skills to effectively tackle global issues impacting society.

**Prerequisite:** ENTR 27056.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ENTR 37075 ENTREPRENEURIAL MARKETING 3 Credit Hours**

Application of marketing concepts to entrepreneurial situations. Emphasis is given to market segmentation and analysis, product and service positioning and market-oriented firm development.

**Prerequisite:** ENTR 27056; and minimum 2.25 overall GPA; and Entrepreneurship major or minor.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ENTR 37080 NEW VENTURE CREATION (WIC) 3 Credit Hours**

The process of formulating, planning and implementing a new venture. Apply the skills learned in the functional areas toward the goal of starting a business. Exposure to detailed descriptions of 'how to' embark on a new venture in a logical manner.

**Prerequisite:** ENTR 27056; and ENTR 37040 with a minimum C grade; and ENTR 37065 or FIN 36053; minimum C grade in ENG 21011, COMM 15000 and MATH 11010; minimum 2.25 overall GPA; and Entrepreneurship major or minor.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Writing Intensive Course

**ENTR 37192 ADVANCED PRACTICUM (ELR) 1-4 Credit Hours**

(Repeatable for a total of 4 credit hours) This course offers the student a chance to explore and apply their organizational leadership, teamwork, communication, critical thinking and problem solving skills in an entrepreneurial setting by providing a real life consulting experience. In this practicum, students will be responsible for defining and managing their projects, working with clients lined up through the faculty member and the Center for Entrepreneurship and Business Innovation. The time commitment for this course is approximately 50 hours per credit hour

**Prerequisite:** ENTR 27056 and ENTR 37075; and ENTR 37040 with a minimum C grade; and minimum 2.25 overall GPA; and Entrepreneurship major or minor.

**Schedule Type:** Practical Experience

**Contact Hours:** 1-4 other

**Grade Mode:** Standard Letter

**Attributes:** Experiential Learning Requirement

**ENTR 37195 SPECIAL TOPICS IN ENTREPRENEURSHIP I 1-4 Credit Hours**

(Repeatable for credit) Special topics course offered on an irregular basis; different topics and faculty involved each time the course is offered.

**Prerequisite:** ENTR 27056; and minimum 2.25 overall GPA.

**Schedule Type:** Lecture

**Contact Hours:** 1-4 lecture

**Grade Mode:** Standard Letter

**ENTR 45096 INDIVIDUAL INVESTIGATION IN ENTREPRENEURSHIP 1-3 Credit Hours**

(Repeatable for credit) Independent investigation of appropriate problem undertaken by a senior entrepreneurship major.

**Prerequisite:** Special approval.

**Schedule Type:** Individual Investigation

**Contact Hours:** 1-3 other

**Grade Mode:** Standard Letter

**ENTR 47045 ENTREPRENEURIAL LEADERSHIP 3 Credit Hours**

Application of business start-up and leadership concepts to entrepreneurial situations. Emphasis is given to mentoring and coaching students in ENTR 27065 or ENTR 27075.

**Prerequisite:** ENTR 47049 with a minimum B grade; and Entrepreneurship major.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ENTR 47047 STRATEGIC DILEMMAS IN ENTREPRENEURSHIP 3 Credit Hours**

Examines early challenges with strategic consequences faced by the entrepreneur. The topics covered include the timing of entrepreneurial entry, the type of entry (startup vs. franchise vs. acquisition), family business dilemmas, division of roles in a new venture, equity split, hiring dilemmas, investor dilemmas, exit choices and other dilemmas that have long-term consequences for entrepreneurs, their ventures, as well as for co-founders, employees, investors, and potential acquirers. The course heavily relies on case studies as a primary means of dilemma analysis.

**Prerequisite:** ENTR 27056 with a minimum C grade; minimum 2.25 overall GPA; and Entrepreneurship major or minor; and junior or senior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ENTR 47048 ENTREPRENEURIAL EXPERIENCE I (ELR) 3 Credit Hours**

First of a two-course sequence designed to immerse entrepreneurship majors into the dynamics of starting and running a business through the creation of their own venture. Students in this course will utilize a plan they developed in New Venture Creation, ENTR 37080, or create a new business plan. Activities may include identifying market needs, researching financial viability of the business venture to meet that need, marshaling the resources to launch a business, and launching the business.

**Prerequisite:** Minimum C grade in ENG 21011, ENTR 37080, COMM 15000 and MATH 11010; and minimum 2.250 overall GPA; and Entrepreneurship major.

**Schedule Type:** Laboratory

**Contact Hours:** 3 lab

**Grade Mode:** Standard Letter

**Attributes:** Experiential Learning Requirement

**ENTR 47049 ENTREPRENEURIAL EXPERIENCE II 3 Credit Hours**

Second of a two-course sequence designed to immerse entrepreneurship majors into the dynamics of starting and running a business through the creation of their own venture. Activities include growing the business started during Entrepreneurial Experience I, meeting all operational requirements of the business, evaluating the business, and determining whether to continue the business or shut it down upon completion of the course.

**Prerequisite:** ENTR 47048; and minimum 2.250 overall GPA; and Entrepreneurship major and minor.

**Schedule Type:** Laboratory

**Contact Hours:** 3 lab

**Grade Mode:** Standard Letter

**ENTR 47070 NEW ENTERPRISE FORMATION 3 Credit Hours**

This course will develop the student's ability to analyze, plan and implement a new venture. This course is both an experiential and "how to" course. Students will perform research to evaluate the viability of identified business opportunities by understanding the key industry factors, market and competitive factors and customer needs that affect those opportunities. Students will develop personal entrepreneurial capacity in the field or industry in which their business will operate. Students will do a feasibility analysis and develop a business canvas model that will result in a flexible business plan. Entrepreneurship majors will not receive credit for this course.

**Prerequisite:** Minimum C grade in ENG 21011 and ENTR 37040; and ENTR 27056 and ENTR 37065; and minimum 2.250 overall GPA; and non-Entrepreneurship majors only.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ENTR 47091 SEMINAR IN ENTREPRENEURSHIP 3 Credit Hours**

(Repeatable for credit) Current topics in entrepreneurship.

Entrepreneurship majors will not receive credit for this course. Not open to Entrepreneurship majors.

**Prerequisite:** ENTR 27056; and student in the College of Business Administration; and junior or senior standing.

**Schedule Type:** Seminar

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**ENTR 47187 INTERNATIONAL EXPERIENCE IN ENTREPRENEURSHIP 3 Credit Hours**

The student will gain firsthand exposure to international businesses and organizations generally relating to business, and specifically relating to entrepreneurship. The course includes pre-trip orientation sessions, visits to international businesses and organizations, and opportunities for cultural activities.

**Prerequisite:** ENTR 27056; and Entrepreneurship major or minor; and special approval.

**Schedule Type:** Field Experience

**Contact Hours:** 9 other

**Grade Mode:** Standard Letter

**ENTR 47195 SPECIAL TOPICS IN ENTREPRENEURSHIP II 1-4 Credit Hours**

(Repeatable for credit) Special topics course offered on an irregular basis; different topics and faculty involved each time the course is offered.

**Prerequisite:** ENTR 27056; and minimum 2.25 overall GPA.

**Schedule Type:** Lecture

**Contact Hours:** 1-4 lecture

**Grade Mode:** Standard Letter

**ENTR 47292 ENTREPRENEURIAL INTERNSHIP (ELR) 3 Credit Hours**  
Preparation of research report concurrent with on-the-job experience with cooperating business or other organization.

**Prerequisite:** Minimum 2.250 overall GPA; and Entrepreneurship major; and special approval.

**Schedule Type:** Practical Experience

**Contact Hours:** 9 other

**Grade Mode:** Standard Letter

**Attributes:** Experiential Learning Requirement

**ENTR 65051 TECHNOLOGY COMMERCIALIZATION 3 Credit Hours**  
This course is designed to teach students how to evaluate opportunities for technology commercialization and how to apply the steps required in order to take a technological innovation to the marketplace.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

## Managerial Marketing (MMTG)

**MMTG 35011 MARKETING TOOLS (WIC) 3 Credit Hours**  
Provides an overview of the analytical, communication, and decision-making skills that students will need to succeed in subsequent coursework and as a marketing professional. Topics include strategic analysis, financial analysis, case analysis, marketing decision-making, and persuasive communications.

**Prerequisite:** Minimum C grade in ENG 21011, COMM 15000, MATH 11010; CIS 24053 or IT 11000; MKTG 25010 or BMRT 21050; and minimum 2.500 overall GPA; and managerial marketing major.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Writing Intensive Course

**MMTG 35021 RESEARCH FOR MARKETING DECISIONS 3 Credit Hours**

Focuses on the effective collection, organization, evaluation, and use of data to make marketing decisions. Emphasis on methods for collecting, analyzing, interpreting, and communicating data in the context of marketing decision-making.

**Prerequisite:** MMTG 35011 with a minimum C grade; and minimum 2.500 overall GPA; and managerial marketing major.

**Pre/corequisite:** MGMT 24056.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MMTG 35024 MARKETING TOOLS LABORATORY 1 Credit Hour**  
Extended practice and use of software to enhance financial analysis and communication skills. Emphasizes the use of Microsoft Office software to enhance marketing decision-making and persuasive presentation skills. Incorporates professional development skills and opportunities. Should be taken concurrently with the Marketing Tools (MMTG 35011) course.

**Prerequisite:** ENG 21011, COMM 15000, MATH 11010; and CIS 24053 or IT 11000; and MKTG 25010 or BMRT 21050 with minimum C (2.00); minimum 2.500 overall GPA; and managerial marketing major.

**Schedule Type:** Laboratory

**Contact Hours:** 2 lab

**Grade Mode:** Standard Letter

**MMTG 35025 MARKETING COMMUNICATIONS LABORATORY 1 Credit Hour**

Extended practice and use of software to enhance marketing communications skills. Emphasizes the use of software to develop and execute specific marketing communications tools. Incorporates traditional and contemporary communications tools with a focus on tools that are typically created in-house by marketers.

**Prerequisite:** ENG 21011, COMM 15000 and MATH 11010; and CIS 24053 or IT 11000; and MKTG 25010 or BMRT 21050 with a minimum C grade; and minimum 2.500 overall GPA; and managerial marketing major.

**Schedule Type:** Laboratory

**Contact Hours:** 2 lab

**Grade Mode:** Standard Letter

**MMTG 35026 MARKETING RESEARCH LABORATORY 1 Credit Hour**

Extended practice and use of software to enhance data analysis and communication skills. Emphasizes the collection and analysis of research data for marketing decision-making. Incorporates the use of data analysis software. Should be taken concurrently with the Research for Marketing Decisions (MMTG 35021) course.

**Prerequisite:** MMTG 35011 with a minimum C grade; and minimum 2.500 overall GPA; and managerial marketing major.

**Schedule Type:** Laboratory

**Contact Hours:** 2 lab

**Grade Mode:** Standard Letter

**MMTG 35030 SALES AND SALES MANAGEMENT 3 Credit Hours**

Focuses on the fundamentals of selling and sales management with emphasis on persuasive communication and understanding others' perspectives to reach a "win-win" outcome. Incorporates sales management strategies and the planning and leadership skills of a sales manager. Students will engage in one-on-one role playing and simulated selling scenarios.

**Prerequisite:** MMTG 35011 with a minimum C grade; and minimum 2.500 overall GPA; and managerial marketing major.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MMTG 45020 COMPETITIVE MARKET ANALYSIS 3 Credit Hours**

Focuses on establishing and maintaining a competitive market position through product and pricing strategies driven by industry and competitive analysis. Students will participate in a marketing simulation where they will make marketing decisions and strive to compete effectively.

**Prerequisite:** MMTG 35021 and MMTG 35030; and minimum 2.500 overall GPA; and managerial marketing major.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MMTG 45023 CUSTOMER ANALYSIS 3 Credit Hours**

Focuses on the methods marketers use to analyze and understand their customers. Incorporates market segmentation and targeting, understanding consumer and buyer decision-making, and customer relationship management. Students will complete a segmentation plan for a client firm.

**Prerequisite:** MMTG 35021 and MMTG 35030; and minimum 2.500 overall GPA; and managerial marketing major.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MMTG 45039 PROMOTION MANAGEMENT 3 Credit Hours**

Focuses on the use of promotional tools to communicate marketing strategies to customers. Emphasis on both traditional and contemporary promotional tools, including new technologies in marketing communications. Considers the selection, planning, and implementation of promotional tools. Students will complete a communications plan for a client firm.

**Prerequisite:** MMTG 45020 and 45023; and minimum 2.500 overall GPA; and managerial marketing major.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MMTG 45040 INTEGRATED MARKETING STRATEGY (ELR) 3 Credit Hours**

Capstone course for managerial marketing majors. Emphasis is on the integration of marketing concepts, methods, and skills from prior coursework to make sound marketing decisions. Students will complete a marketing plan for a client firm.

**Prerequisite:** MMTG 45020 and MMTG 45023; and minimum 2.500 overall GPA; and managerial marketing major.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Experiential Learning Requirement

**MMTG 45195 SPECIAL TOPICS IN MANAGERIAL MARKETING 1-4 Credit Hours**

Special Topics in Managerial Marketing permits the exploration of topics not covered, or are not covered in as much depth, in scheduled courses. Hours of credit depend on scope of project.

**Prerequisite:** Minimum 2.500 overall GPA; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 1-4 lecture

**Grade Mode:** Standard Letter

## Marketing (MKTG)

**MKTG 25010 PRINCIPLES OF MARKETING 3 Credit Hours**

(Equivalent to BMRT 21050) An overview of the processes, activities and problems associated with the conception, planning and execution of the pricing, promotion and distribution of ideas, goods and services to create exchange values in the market.

**Prerequisite:** ECON 22060.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** TAG Business

**MKTG 35030 MARKETING APPLICATIONS 3 Credit Hours**

Students learn and apply strategic and financial analysis skills to make real-world marketing decisions. Emphasis on marketing planning and core strategic decisions in marketing, including segmentation, targeting and positioning.

**Prerequisite:** MKTG 25010 with a minimum C grade; and minimum 2.500 overall GPA; and marketing major.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MKTG 35035 CONSUMER BEHAVIOR 3 Credit Hours**

Focus is on the decision-making processes of the individual consumer and the psychological, sociological, cultural and economic factors that influence those choices. Understanding why consumers behave in the way that they do is the heart of the study of consumer behavior and informs the formulation of marketing strategy. Periodically offered as an online course.

**Prerequisite:** MKTG 25010.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MKTG 35050 MARKETING RESEARCH 3 Credit Hours**

Focus is on the collection and analysis of new marketing data, both for exploratory and for decision-making purposes. Students work individually and in teams developing and communicating responses to managerial questions.

**Prerequisite:** MKTG 25010 and MGMT 24056; and minimum 2.500 overall GPA.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MKTG 35056 SOCIAL MEDIA MARKETING 3 Credit Hours**

Explore the various opportunities and risks that social media marketing holds for firms. During the course students will learn about topics such as social media's effect on marketing, creating and managing brand presences on social media, creating and marketing a branded viral video, identifying online influencers, analyzing.

**Prerequisite:** MKTG 25010; and minimum GPA 2.500; and junior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MKTG 35061 MARKETING ANALYTICS 3 Credit Hours**

This course presents an overview of the process of conducting marketing analytics in a business organization. Broadly, this process encompasses distilling management questions into its causes and consequences, determining data requirements, assembling a data set amenable to analysis, model selection, analysis, and the communication of analytics insights. Consequently, marketing analytics is discussed as a rich, data-driven process to visualize, predict and improve business outcomes, and how to think about analysis and how to communicate its results are emphasized.

**Prerequisite:** MGMT 24056; and a managerial marketing major or marketing major or entrepreneurship major.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MKTG 45045 ADVERTISING AND PROMOTION MANAGEMENT 3 Credit Hours**

Increases students' understanding of advertising concepts as well as structure and functions of different 'players' within the industry. Integrates marketing and advertising theory with application in advertising decision-making. Periodically offered as an online course. Not open to Managerial Marketing (MMTG) majors.

**Prerequisite:** MKTG 25010 or BMRT 21050.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter



**MKTG 45046 PERSONAL SELLING 3 Credit Hours**

Introduces students to effective communication, successful selling and persuasion techniques, building customer relationships, ethics, the buying and selling process, and developing professional sales calls.

**Prerequisite:** MKTG 25010 or BMRT 21050 or MKTG 35035; and not open to managerial marketing majors.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MKTG 45047 ADVANCED PROFESSIONAL SELLING 3 Credit Hours**

Builds on the foundation established in Personal Selling and Sales Management (MKTG 45046) by applying sales concepts, participating in live sales calls with Business Partner Company Sales Reps, spending highly focused time in role plays with immediate feedback from the instructors, interacting with guest speakers who are experts in sales, and studying advanced sales and persuasion techniques. Experiential course that requires some flexibility with scheduling for the shadow experiences.

**Prerequisite:** MKTG 45046 or MMTG 35030 or ENTR 37045; and minimum 2.500 overall GPA.

**Schedule Type:** Laboratory, Lecture, Combined Lecture and Lab

**Contact Hours:** 2 lecture, 2 lab

**Grade Mode:** Standard Letter

**MKTG 45060 INTERNATIONAL MARKETING 3 Credit Hours**

Examination of international marketing in terms of global markets and trade. Emphasizes differences among markets caused by geography, politics, economics, culture, commercial policy and trade practices. Periodically offered as an online course.

**Prerequisite:** MKTG 25010 or BMRT 21050 or MKTG 35035.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MKTG 45082 SERVICES MARKETING 3 Credit Hours**

Provides an integrated understanding of what is required to develop and market a successful service to a chosen target market. Positioning of a service product can be achieved through the "4 Ps" tactics originally used for goods marketing in addition to three new Ps" for services, which include design of the delivery process, recruitment and training of people, and developing appropriate physical evidence. Readings, lectures, tests, and experiential activities are used to develop and assess learning.

**Prerequisite:** MKTG 25010; and minimum 2.500 overall GPA.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MKTG 45084 MARKETING POLICIES AND STRATEGIES (ELR) (WIC) 3 Credit Hours**

Capstone course for marketing majors. Course deals with marketing policies and strategies with emphasis on managerial decision-making case approach.

**Prerequisite:** MKTG 35030 with a minimum C grade; and minimum 2.500 overall GPA; and marketing major; and senior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Experiential Learning Requirement, Writing Intensive Course

**MKTG 45091 MARKETING SEMINAR 1-4 Credit Hours**

(Repeatable for credit) Current topics in marketing. Certain sections of this variable topic seminar may require instructor special approval or have further prerequisites. See current schedule of classes.

**Prerequisite:** MKTG 25010 or BMRT 21050 or MKTG 35035; and minimum 2.500 overall GPA.

**Schedule Type:** Seminar

**Contact Hours:** 1-4 other

**Grade Mode:** Standard Letter

**MKTG 45095 SPECIAL TOPICS IN MARKETING 1-4 Credit Hours**

(Repeatable for credit) Special Topics in Marketing permits the exploration of topics that are not covered, or not covered in as much depth, in scheduled courses. Credit hours depend on the scope of the project.

**Prerequisite:** Minimum 2.500 overall GPA; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 1-4 lecture

**Grade Mode:** Standard Letter

**MKTG 45096 INDIVIDUAL INVESTIGATION IN MARKETING 1-3 Credit Hours**

(Repeatable for credit) Independent investigation of appropriate problem undertaken by a senior marketing major.

**Prerequisite:** Special approval.

**Schedule Type:** Individual Investigation

**Contact Hours:** 1-6 other

**Grade Mode:** Standard Letter

**MKTG 45187 INTERNATIONAL EXPERIENCE IN MARKETING 3 Credit Hours**

The student will gain firsthand exposure to international businesses and organizations generally relating to business and specifically relating to marketing. The course includes pre-trip orientation sessions, visits to international businesses and organizations, and opportunities for cultural activities.

**Prerequisite:** MKTG 25010; and a marketing, managerial marketing, or entrepreneurship major; and special approval.

**Schedule Type:** Field Experience

**Contact Hours:** 9 other

**Grade Mode:** Standard Letter

**MKTG 45192 SALES INTERNSHIP (ELR) 3 Credit Hours**

Supervised practical experience in sales with a business. An internship application and faculty approval are needed prior to registration for this course.

**Prerequisite:** MKTG 45046 or MMTG 35030 or ENTR 37045; and special approval.

**Schedule Type:** Practical Experience

**Contact Hours:** 9 other

**Grade Mode:** Standard Letter

**Attributes:** Experiential Learning Requirement

**MKTG 45292 MARKETING INTERNSHIP (ELR) 3 Credit Hours**

Preparation of research report concurrent with on-the-job experience with cooperating business or other organization.

**Prerequisite:** MKTG 25010 or BMRT 21050 or MKTG 35035; and special approval.

**Schedule Type:** Individual Investigation, Practical Experience

**Contact Hours:** 9 other

**Grade Mode:** Standard Letter

**Attributes:** Experiential Learning Requirement



**MKTG 65050 MODERN ENTREPRENEURIAL MANAGEMENT 3 Credit Hours**

(Slashed with MKTG 75050) Analysis and application of the key elements of both entrepreneurship (new business starts) and entrepreneurship in existing companies.

**Prerequisite:** Completion of 24 credit hours of Business Administration (BAD) courses and Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MKTG 65051 MARKETING MANAGEMENT 2 Credit Hours**

Analysis of marketing management at a level appropriate to students with limited background in the subject. The course will include lectures, and will integrate a major experiential component (e.g., a marketing simulation, a client-based project, etc.). Services, global marketing, and legal and ethical issues will be integrated across topic areas.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**MKTG 65053 PROMOTION MANAGEMENT 3 Credit Hours**

(Slashed with MKTG 75053) All elements of the promotional mix (advertising, sales, promotion, publicity, public relations and personal selling) are considered as part of an integrated communications strategy. Primary emphasis is placed on advertising. A comprehensive set of analytical frameworks are developed, covering a range of topics from the firm's marketing strategy to the message strategy embodied in a single advertisement. These analytic frameworks are applied to a series of case studies throughout the course.

**Prerequisite:** MKTG 65051; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MKTG 65054 INTERNATIONAL MARKETING 3 Credit Hours**

Course focuses on the types of marketing decisions facing the international marketing manager or vice president in the multinational firm.

**Prerequisite:** MKTG 65051; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MKTG 65057 MARKETING RESEARCH 3 Credit Hours**

(Slashed with MKTG 75057) Examination of the research process as applied to decision making. Course focuses on steps in problem formulation the research process application of techniques and basis data analysis using SPSS-PC.

**Prerequisite:** MKTG 65051; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MKTG 65060 MARKETING STRATEGY AND PLANNING 3 Credit Hours**

Focuses on integration of marketing planning into the strategic planning process. Deals mostly with marketing strategy at the level of senior management rather than operations.

**Prerequisite:** MKTG 65051; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MKTG 65064 BUYER BEHAVIOR 3 Credit Hours**

(Slashed with MKTG 75064) An analysis of the concepts of buyer/consumer behavior, focusing on the behavioral sciences theories underlying marketing models and their application to marketing strategies.

**Prerequisite:** MKTG 65051; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MKTG 65184 INTERNATIONAL BUSINESS 3 Credit Hours**

(Slashed with MKTG 75184) Study of the business firm in a global context. Application of theory and practice of American business administration to international operations of firms.

**Prerequisite:** ECON 62021; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MKTG 75050 MODERN ENTREPRENEURIAL MANAGEMENT 3 Credit Hours**

(Slashed with MKTG 65050) Analysis and application of the key elements of both entrepreneurship (new business starts) and entrepreneurship in existing companies.

**Prerequisite:** Doctoral standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MKTG 75051 MARKETING MANAGEMENT 3 Credit Hours**

(Slashed with MKTG 65051) Analysis of marketing management at a level appropriate to students with limited background in the subject. Course encompasses lecture discussion problems and cases.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MKTG 75053 PROMOTION MANAGEMENT 3 Credit Hours**

(Slashed with MKTG 65053) All elements of the promotional mix (advertising, sales, promotion, publicity, public relations and personal selling) are considered as part of an integrated communications strategy. Primary emphasis is placed on advertising. A comprehensive set of analytical frameworks are developed, covering a range of topics from the firm's marketing strategy to the message strategy embodied in a single advertisement. These analytic frameworks are applied to a series of case studies throughout the course.

**Prerequisite:** MKTG 75051; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MKTG 75057 MARKETING RESEARCH 3 Credit Hours**

(Slashed with MKTG 65057) Examination of the research process as applied to decision making. Course focuses on steps in problem formulation, the research process, application of techniques, and basis data analysis using SPSS-PC.

**Prerequisite:** MKTG 65051 or 75051; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MKTG 75064 BUYER BEHAVIOR 3 Credit Hours**

(Slashed with MKTG 65064) An analysis of the concepts of buyer/consumer behavior, focusing on the behavioral sciences theories underlying marketing models and their application to marketing strategies.

**Prerequisite:** MKTG 75051; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MKTG 75184 INTERNATIONAL BUSINESS 3 Credit Hours**

(Slashed with MKTG 65184) Study of the business firm in a global context. Application of theory and practice of American business administration to international operations of firms.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MKTG 85054 INTERNATIONAL MARKETING 3 Credit Hours**

This course focuses on the types of marketing decisions facing the international marketing manager or vice president in the multinational firm.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MKTG 85057 RESEARCH DESIGN 3 Credit Hours**

Focuses on the construction of a conceptual framework; the design of an experiment sampling plan data collection methods and the application of statistical techniques.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Seminar

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MKTG 85060 MARKETING STRATEGY AND PLANNING 3 Credit Hours**

Focuses on integration of marketing planning into the strategic planning process. Deals mostly with marketing strategy at the level of senior management rather than operations.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MKTG 85063 ANALYTICAL METHODS IN MARKETING RESEARCH 3 Credit Hours**

Application of multivariate statistical techniques in marketing research.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter-IP

**MKTG 85064 BUYER BEHAVIOR 3 Credit Hours**

An analysis of extant and emerging theories, models and concepts of buyer consumer behavior and their development and testing.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter-IP

**MKTG 85066 MARKETING THEORY 3 Credit Hours**

The central objective of the course is to develop the doctoral student's background in marketing theory, theory construction and the creation of marketing knowledge.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter-IP

**MKTG 85091 ADVANCED INTERNATIONAL MARKETING SEMINAR 3 Credit Hours**

(Repeatable for credit) Covers the theoretical research development of the field of international marketing.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Seminar

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter-IP

**MKTG 85097 SEMINAR IN MARKETING AND ENTREPRENEURSHIP 3 Credit Hours**

(Repeatable for a maximum of 6 credit hours) This course is designed to provide doctoral students with a broad exposure to a current and substantive topic area in either marketing or entrepreneurship. This course will expose students to classic and new ideas, help them critically analyze these ideas, and provide them with the opportunity to relate these ideas to their own research interests.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Colloquium

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**MKTG 85098 RESEARCH IN MARKETING 3 Credit Hours**

(Repeatable for credit) Designed to assist students in developing dissertation topics or to provide an opportunity to study material or topic not covered elsewhere in the program.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Research

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

## Managerial Marketing (MMTG)

**MMTG 35011 MARKETING TOOLS (WIC) 3 Credit Hours**

Provides an overview of the analytical, communication, and decision-making skills that students will need to succeed in subsequent coursework and as a marketing professional. Topics include strategic analysis, financial analysis, case analysis, marketing decision-making, and persuasive communications.

**Prerequisite:** Minimum C grade in ENG 21011, COMM 15000, MATH 11010; CIS 24053 or IT 11000; MKTG 25010 or BMRT 21050; and minimum 2.500 overall GPA; and managerial marketing major.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Writing Intensive Course

**MMTG 35021 RESEARCH FOR MARKETING DECISIONS 3 Credit Hours**

Focuses on the effective collection, organization, evaluation, and use of data to make marketing decisions. Emphasis on methods for collecting, analyzing, interpreting, and communicating data in the context of marketing decision-making.

**Prerequisite:** MMTG 35011 with a minimum C grade; and minimum 2.500 overall GPA; and managerial marketing major.

**Pre/corequisite:** MGMT 24056.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MMTG 35024 MARKETING TOOLS LABORATORY 1 Credit Hour**

Extended practice and use of software to enhance financial analysis and communication skills. Emphasizes the use of Microsoft Office software to enhance marketing decision-making and persuasive presentation skills. Incorporates professional development skills and opportunities. Should be taken concurrently with the Marketing Tools (MMTG 35011) course.

**Prerequisite:** ENG 21011, COMM 15000, MATH 11010; and CIS 24053 or IT 11000; and MKTG 25010 or BMRT 21050 with minimum C (2.00); minimum 2.500 overall GPA; and managerial marketing major.

**Schedule Type:** Laboratory

**Contact Hours:** 2 lab

**Grade Mode:** Standard Letter

**MMTG 35025 MARKETING COMMUNICATIONS LABORATORY 1 Credit Hour**

Extended practice and use of software to enhance marketing communications skills. Emphasizes the use of software to develop and execute specific marketing communications tools. Incorporates traditional and contemporary communications tools with a focus on tools that are typically created in-house by marketers.

**Prerequisite:** ENG 21011, COMM 15000 and MATH 11010; and CIS 24053 or IT 11000; and MKTG 25010 or BMRT 21050 with a minimum C grade; and minimum 2.500 overall GPA; and managerial marketing major.

**Schedule Type:** Laboratory

**Contact Hours:** 2 lab

**Grade Mode:** Standard Letter

**MMTG 35026 MARKETING RESEARCH LABORATORY 1 Credit Hour**

Extended practice and use of software to enhance data analysis and communication skills. Emphasizes the collection and analysis of research data for marketing decision-making. Incorporates the use of data analysis software. Should be taken concurrently with the Research for Marketing Decisions (MMTG 35021) course.

**Prerequisite:** MMTG 35011 with a minimum C grade; and minimum 2.500 overall GPA; and managerial marketing major.

**Schedule Type:** Laboratory

**Contact Hours:** 2 lab

**Grade Mode:** Standard Letter

**MMTG 35030 SALES AND SALES MANAGEMENT 3 Credit Hours**

Focuses on the fundamentals of selling and sales management with emphasis on persuasive communication and understanding others' perspectives to reach a "win-win" outcome. Incorporates sales management strategies and the planning and leadership skills of a sales manager. Students will engage in one-on-one role playing and simulated selling scenarios.

**Prerequisite:** MMTG 35011 with a minimum C grade; and minimum 2.500 overall GPA; and managerial marketing major.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MMTG 45020 COMPETITIVE MARKET ANALYSIS 3 Credit Hours**

Focuses on establishing and maintaining a competitive market position through product and pricing strategies driven by industry and competitive analysis. Students will participate in a marketing simulation where they will make marketing decisions and strive to compete effectively.

**Prerequisite:** MMTG 35021 and MMTG 35030; and minimum 2.500 overall GPA; and managerial marketing major.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MMTG 45023 CUSTOMER ANALYSIS 3 Credit Hours**

Focuses on the methods marketers use to analyze and understand their customers. Incorporates market segmentation and targeting, understanding consumer and buyer decision-making, and customer relationship management. Students will complete a segmentation plan for a client firm.

**Prerequisite:** MMTG 35021 and MMTG 35030; and minimum 2.500 overall GPA; and managerial marketing major.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MMTG 45039 PROMOTION MANAGEMENT 3 Credit Hours**

Focuses on the use of promotional tools to communicate marketing strategies to customers. Emphasis on both traditional and contemporary promotional tools, including new technologies in marketing communications. Considers the selection, planning, and implementation of promotional tools. Students will complete a communications plan for a client firm.

**Prerequisite:** MMTG 45020 and 45023; and minimum 2.500 overall GPA; and managerial marketing major.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MMTG 45040 INTEGRATED MARKETING STRATEGY (ELR) 3 Credit Hours**

Capstone course for managerial marketing majors. Emphasis is on the integration of marketing concepts, methods, and skills from prior coursework to make sound marketing decisions. Students will complete a marketing plan for a client firm.

**Prerequisite:** MMTG 45020 and MMTG 45023; and minimum 2.500 overall GPA; and managerial marketing major.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Experiential Learning Requirement

**MMTG 45195 SPECIAL TOPICS IN MANAGERIAL MARKETING 1-4****Credit Hours**

Special Topics in Managerial Marketing permits the exploration of topics not covered, or are not covered in as much depth, in scheduled courses.

Hours of credit depend on scope of project.

**Prerequisite:** Minimum 2.500 overall GPA; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 1-4 lecture

**Grade Mode:** Standard Letter

## Doctoral Marketing - Minor

**College of Business Administration**

Department of Marketing and Entrepreneurship

534 Business Administration Building

Kent Campus

330-672-2170

marketing@kent.edu

www.kent.edu/business/marketing

## Minor Requirements

Code	Title	Credit Hours
<b>Minor Requirements</b>		
MKTG 85066	MARKETING THEORY	3
Choose from the following:		9
MKTG 85054	INTERNATIONAL MARKETING	
MKTG 85057	RESEARCH DESIGN	
MKTG 85060	MARKETING STRATEGY AND PLANNING	
MKTG 85063	ANALYTICAL METHODS IN MARKETING RESEARCH	
MKTG 85064	BUYER BEHAVIOR	

Minimum Total Credit Hours: 12

## Entrepreneurship - B.B.A.

**College of Business Administration**

Department of Marketing and Entrepreneurship

534 Business Administration Building

Kent Campus

330-672-2170

marketing@kent.edu

www.kent.edu/business/marketing

## Description

The Bachelor of Business Administration degree in Entrepreneurship provides students with the academic background and experiential opportunities needed to view business opportunities from an entrepreneurial perspective. The program helps students recognize market and business opportunities and learn when to seize them or take action, all while operating within the context of limited resources and creating value for the customer.

The program contains numerous opportunities to experience entrepreneurship firsthand. During their senior year, students earn course credit by launching and running a business of their own creation. A practicum can earn students credit while developing their own business

or assisting entrepreneurs with their business. Students have many opportunities to meet experienced entrepreneurs who discuss their successes and failures in business. Courses in the major are hands-on, with experiential learning central to the course format.

Entrepreneurship students may apply early to the M.B.A. degree and double count 9 credit hours of graduate courses toward both degree programs. See the Combined Bachelor's/Master's Degree Program policy in the University Catalog for more information.

### Fully Offered At:

- Kent Campus

## Accreditation

AACSB, International - The Association to Advance Collegiate Schools of Business

## Admission Requirements

The university affirmatively strives to provide educational opportunities and access to students with varied backgrounds, those with special talents and adult students who graduated from high school three or more years ago.

**Freshman Students on the Kent Campus:** The freshman admission policy on the Kent Campus is selective. Admission decisions are based upon the following: cumulative grade point average, ACT and/or SAT scores, strength of high school college preparatory curriculum and grade trends. The Admissions Office at the Kent Campus may defer the admission of students who do not meet admissions criteria but who demonstrate areas of promise for successful college study. Deferred applicants may begin their college coursework at one of seven regional campuses of Kent State University. For more information on admissions, including additional requirements for some academic programs, visit the admissions website for new freshmen.

**Freshman Students on the Regional Campuses:** Kent State campuses at Ashtabula, East Liverpool, Geauga, Salem, Stark, Trumbull and Tuscarawas, as well as the Regional Academic Center in Twinsburg, have open enrollment admission for students who hold a high school diploma, GED or equivalent.

**English Language Proficiency Requirements for International Students:** All international students must provide proof of English language proficiency (unless they meet specific exceptions) by earning a minimum 525 TOEFL score (71 on the Internet-based version), minimum 75 MELAB score, minimum 6.0 IELTS score or minimum 48 PTE score, or by completing the ESL level 112 Intensive Program. For more information on international admission, visit the Office of Global Education's admission website.

**Transfer, Transitioning and Former Students:** For more information about admission criteria for transfer, transitioning and former students, please visit the admissions website.

A overall GPA of at least 2.25 is required for admission into the College of Business Administration. Students who have previously attended Kent State and have completed (or the equivalent of), MATH 11010, COMM 15000, ENG 21011 and ENTR 27056 must have earned a minimum C grade.

## Program Learning Outcomes

Graduates of this program will be able to:

1. Demonstrate an understanding of capital formation and financial management in a new venture.
2. Demonstrate an understanding of the marketing function in a new venture.
3. Demonstrate an understanding of and ability to apply the entrepreneurial process for the purpose of creating a new venture that generates revenue or obtains capital investment.

Graduates of all Bachelor of Business Administration programs will be able to:

1. Recall strategic frameworks that are used to make business decisions.
2. Perform basic calculations using quantitative tools that are used to support business decisions.
3. Articulate and deliberate their ideas in writing.
4. Articulate and deliberate their ideas orally.
5. Identify ethical dilemmas and stakeholders.
6. Recommend alternatives and consequences and choose a reasoned conclusion from the alternatives given.
7. Identify global factors in making a business decision.
8. Analyze global factors in making a business decision.

## University Requirements

All students in a bachelor's degree program at Kent State University must complete the following university requirements for graduation.

**NOTE:** University requirements may be fulfilled in this program by specific course requirements. Please see Program Requirements for details.

Destination Kent State: First Year Experience	1
Course is not required for students with 25 transfer credits, excluding College Credit Plus, or age 21+ at time of admission.	
Diversity Domestic/Global (DIVD/DIVG)	2 courses
Students must successfully complete one domestic and one global course, of which one must be from the Kent Core.	
Experiential Learning Requirement (ELR)	varies
Students must successfully complete one course or approved experience.	
Kent Core (see table below)	36-37
Writing-Intensive Course (WIC)	1 course
Students must earn a minimum C grade in the course.	
Upper-Division Requirement	39 (or 42)
Students must successfully complete 39 upper-division (numbered 30000 to 49999) credit hours to graduate. Students in a B.A. and/or B.S. degree in the College of Arts and Sciences must complete 42 upper-division credit hours.	
Total Credit Hour Requirement	120
Some bachelor's degrees require students to complete more than 120 credit hours.	

## Kent Core Requirements

Kent Core Composition (KCOMP)	6
Kent Core Mathematics and Critical Reasoning (KMCR)	3

Kent Core Humanities and Fine Arts (KHUM/KFA) (min one course each)	9
Kent Core Social Sciences (KSS) (must be from two disciplines)	6
Kent Core Basic Sciences (KBS/KLAB) (must include one laboratory)	6-7
Kent Core Additional (KADL)	6
<b>Total Credit Hours:</b>	<b>36-37</b>

## Program Requirements

### Major Requirements

Code	Title	Credit Hours
<b>Major Requirements (courses count in major GPA)</b>		
ENTR 27056	INTRODUCTION TO ENTREPRENEURSHIP (min C grade)	3
ENTR 27466	SPEAKER SERIES IN ENTREPRENEURSHIP	1
ENTR 37040	ENTREPRENEURIAL TOOLS (min C grade)	3
ENTR 37045	SALES IN THE ENTREPRENEURIAL VENTURE	3
ENTR 37065	ENTREPRENEURIAL FINANCE	3
ENTR 37075	ENTREPRENEURIAL MARKETING	3
ENTR 37080	NEW VENTURE CREATION (WIC) (min C grade)	3
ENTR 47048	ENTREPRENEURIAL EXPERIENCE I (ELR) (min C grade)	3
ENTR 47049	ENTREPRENEURIAL EXPERIENCE II (min C grade)	3
Major Elective, choose from the following:		3
ENGR 43060	MANAGEMENT OF TECHNOLOGY INNOVATION	
ENTR 37070	SOCIAL ENTREPRENEURSHIP	
ENTR 37195	SPECIAL TOPICS IN ENTREPRENEURSHIP I	
ENTR 45096	INDIVIDUAL INVESTIGATION IN ENTREPRENEURSHIP	
ENTR 47187	INTERNATIONAL EXPERIENCE IN ENTREPRENEURSHIP	
ENTR 47292	ENTREPRENEURIAL INTERNSHIP (ELR)	
FDM 35280	FASHION ENTREPRENEURSHIP	
MKTG 35056	SOCIAL MEDIA MARKETING	
MKTG 45047	ADVANCED PROFESSIONAL SELLING	
<b>Additional Requirements (courses do not count in major GPA)</b>		
ACCT 23020	INTRODUCTION TO FINANCIAL ACCOUNTING	3
ACCT 23021	INTRODUCTION TO MANAGERIAL ACCOUNTING	3
BUS 10123	EXPLORING BUSINESS <sup>1</sup>	3
BUS 30062	ADVANCED PROFESSIONAL DEVELOPMENT	3
CIS 24053	INTRODUCTION TO COMPUTER APPLICATIONS	3
COMM 15000	INTRODUCTION TO HUMAN COMMUNICATION (KADL) (min C grade)	3
ECON 22060	PRINCIPLES OF MICROECONOMICS (KSS)	3
ECON 22061	PRINCIPLES OF MACROECONOMICS (KSS)	3
FIN 26074	LEGAL ENVIRONMENT OF BUSINESS	3
FIN 36053	BUSINESS FINANCE	3
MATH 11010	ALGEBRA FOR CALCULUS (KMCR) (min C grade)	3
MATH 11012	INTUITIVE CALCULUS (KMCR)	3-5
or MATH 12002	ANALYTIC GEOMETRY AND CALCULUS I (KMCR)	
MGMT 24056	BUSINESS ANALYTICS I	3
MGMT 24163	PRINCIPLES OF MANAGEMENT	3
MGMT 34060	OPERATIONS MANAGEMENT	3
MGMT 34156	BUSINESS ANALYTICS II	3



or MKTG 35061	MARKETING ANALYTICS	
MGMT 44285	INTEGRATED BUSINESS POLICY AND STRATEGY	3
MKTG 25010	PRINCIPLES OF MARKETING	3
UC 10097	DESTINATION KENT STATE: FIRST YEAR EXPERIENCE	1
UC 10162	INTRODUCTION TO PROFESSIONAL DEVELOPMENT	1
Kent Core Composition (min C grade) <sup>3</sup>		
Kent Core Humanities and Fine Arts (minimum one course from each)		9
Kent Core Social Sciences		3
Kent Core Basic Sciences (must include one laboratory)		6-7
General Electives (total credit hours depends on earning 120 credit hours including 39 upper-division credit hours) <sup>4</sup>		12
Minimum Total Credit Hours:		120

- <sup>1</sup> A student changing to the College of Business Administration or transferring may be waived out of BUS 10123 if:
- 30 or more credit hours have been earned and any two classes (from ACCT 23020, ACCT 23021, FIN 26074, MGMT 24163, MKTG 25010 or CIS 24053) have successfully been completed.
  - 60 or more credit hours have been earned and the student has successfully completed one course from (ACCT 23020, ACCT 23021, FIN 26074, MGMT 24163, MKTG 25010 or CIS 24053)
  - At the discretion of the Dean's Office, the student has sufficient breadth and depth of knowledge in a business field (as demonstrated by a CLEP exam or Credit by Exam) but does not meet the requirements listed above.

- <sup>2</sup> Students who have taken MATH 10041 for another program may use it as a substitute for MGMT 24056.

- <sup>3</sup> Minimum C grade in ENG 21011 or HONR 20197.

- <sup>4</sup> Students may take or use any course at any level as long as the minimum 39-credit hours requirement for upper-division courses is satisfied for graduation with a B.B.A. Expectations: Maximum 4 credit hours of Physical Activity, Wellness and Sport (PWS) courses may be counted toward the 120 total credit hours or 39-upper-division-hours graduation requirement. General elective courses may be selected from any area and at any level provided students do not go over the PWS restriction and they satisfy the 39 credit hours upper-division requirements. Any other exceptions must be approved by the assistant dean. A minor (business or non-business) is encouraged.

are not required to take MKTG 45046 for the Marketing major or MMTG 35030 for the Managerial Marketing major or minor; however, a Marketing or Managerial Marketing major cannot waive ENTR 37045 by taking either MKTG 45046 or MMTG 35030.

- Students must complete at least 50 percent of business credit hours (required for the business degree) in-residence on a Kent State University campus.
- Students must complete two measures of outcomes assessment as specified by the College of Business Administration for complete satisfaction of the B.B.A.

## Progression Requirements

- Minimum 2.250 overall GPA
- Minimum C grade in COMM 15000, ENG 21011, ENTR 27056, ENTR 37040, ENTR 37080 and MATH 11010

## Graduation Requirements

Minimum Major GPA	Minimum Overall GPA
2.250	2.250

- Entrepreneurship majors will not receive credit toward their program for ENTR 17001 or ENTR 17002.
- Students are permitted to register for ENTR 47049 while taking ENTR 47048.
- For students double majoring in Managerial Marketing and Entrepreneurship; MMTG 35011 will substitute for ENTR 37040, but not vice versa because MMTG 35011 is a writing intensive course.
- Entrepreneurship majors who are also majoring in either Marketing or Managerial Marketing, and who have taken ENTR 37045,

## Roadmap

This roadmap is a recommended semester-by-semester plan of study for this major. However, courses designated as critical (!) must be completed in the semester listed to ensure a timely graduation.

Semester One		Credits
BUS 10123	EXPLORING BUSINESS	3
COMM 15000	INTRODUCTION TO HUMAN COMMUNICATION (KADL)	3
MATH 11010	ALGEBRA FOR CALCULUS (KMCR)	3
UC 10097	DESTINATION KENT STATE: FIRST YEAR EXPERIENCE	1
Kent Core Requirement		3
Kent Core Requirement		3
Credit Hours		16
Semester Two		Credits
CIS 24053	INTRODUCTION TO COMPUTER APPLICATIONS	3
! ENTR 27056	INTRODUCTION TO ENTREPRENEURSHIP	3
! ENTR 27466	SPEAKER SERIES IN ENTREPRENEURSHIP	1
MATH 11012	INTUITIVE CALCULUS (KMCR)	3
or	or ANALYTIC GEOMETRY AND CALCULUS I (KMCR)	
MATH 12002		
UC 10162	INTRODUCTION TO PROFESSIONAL DEVELOPMENT	1
Kent Core Requirement		3
Kent Core Requirement		3
Credit Hours		17
Semester Three		Credits
Required: minimum overall GPA of 2.250 by the end of this semester		
FIN 26074	LEGAL ENVIRONMENT OF BUSINESS	3
ACCT 23020	INTRODUCTION TO FINANCIAL ACCOUNTING	3
ECON 22060	PRINCIPLES OF MICROECONOMICS (KSS)	3
Kent Core Requirement		3
Kent Core Requirement		3
Credit Hours		15
Semester Four		Credits
Required for progression in the major: Minimum 2.250 overall GPA, minimum C grade in COMM 15000, ENG 21011, MATH 11010 and ENTR 27056.		
ACCT 23021	INTRODUCTION TO MANAGERIAL ACCOUNTING	3
BUS 30062	ADVANCED PROFESSIONAL DEVELOPMENT	3
ECON 22061	PRINCIPLES OF MACROECONOMICS (KSS)	3
! ENTR 37040	ENTREPRENEURIAL TOOLS	3
MKTG 25010	PRINCIPLES OF MARKETING	3
Credit Hours		15
Semester Five		Credits
Required: minimum overall GPA of 2.250 by the end of this semester		
! ENTR 37075	ENTREPRENEURIAL MARKETING	3
! FIN 36053	BUSINESS FINANCE	3
MGMT 24056	BUSINESS ANALYTICS I	3
MGMT 24163	PRINCIPLES OF MANAGEMENT	3
Kent Core Requirement		3
Credit Hours		15
Semester Six		Credits
Required: minimum overall GPA of 2.250 by the end of this semester		

! ENTR 37080	NEW VENTURE CREATION (WIC)	3
ENTR 37065	ENTREPRENEURIAL FINANCE	3
MGMT 34156	BUSINESS ANALYTICS II	3
or	or MARKETING ANALYTICS	
MKTG 35061		
Major elective		3
Kent Core Requirement		3
Credit Hours		15
Semester Seven		Credits
Required: minimum overall GPA of 2.250 by the end of this semester		
MGMT 34060	OPERATIONS MANAGEMENT	3
! ENTR 37045	SALES IN THE ENTREPRENEURIAL VENTURE	3
ENTR 47048	ENTREPRENEURIAL EXPERIENCE I (ELR)	3
General Electives		6
Credit Hours		15
Semester Eight		Credits
Required: minimum overall GPA of 2.250 and completion of The Assurance of Learning Assessment given in MGMT 44285		
ENTR 47049	ENTREPRENEURIAL EXPERIENCE II	3
MGMT 44285	INTEGRATED BUSINESS POLICY AND STRATEGY	3
General Electives		6
Credit Hours		12
Minimum Total Credit Hours:		120

## Entrepreneurship for Business Majors - Minor

### College of Business Administration

Department of Marketing and Entrepreneurship  
534 Business Administration Building  
Kent Campus  
330-672-2170  
marketing@kent.edu  
www.kent.edu/business/marketing

## Description

The Entrepreneurship for Business Majors minor brings an entrepreneurial perspective to students' major in business. Entrepreneurship is more than a set of tools and techniques for starting and growing a business. It is a mindset, a creative way of looking at opportunities, a passion, doing what one loves, a challenge, persistence and creating wealth and operating a business, whether one owns it or not.

Students in the minor are immersed in the entrepreneurial process through coursework, entrepreneurial projects and exposure to many entrepreneurs in the community. Students are prepared for the various aspects of starting a business, acquiring a business, corporate entrepreneurship or working for a small business.

### Fully Offered At:

- Kent Campus

## Admission Requirements

Admission to a minor is open to students declared in a bachelor's degree, the A.A.B. or A.A.S. degree or the A.T.S. degree (not Individualized Program major). Students declared only in the A.A. or A.S. degree or the

A.T.S. degree in Individualized Program may not declare a minor. Students may not pursue a minor and a major in the same discipline.

To declare the Entrepreneurship for Business Majors minor, students must have a minimum 2.250 overall Kent State University GPA. No Kent State University GPA is required if the student is a first-semester freshman or transfer student admitted in good standing.

Only students declared in a major in the College of Business Administration may declare the minor.

## Minor Requirements

Code	Title	Credit Hours
<b>Minor Requirements</b>		
ECON 22060	PRINCIPLES OF MICROECONOMICS (KSS)	3
ENR 27056	INTRODUCTION TO ENTREPRENEURSHIP	3
ENR 27466	SPEAKER SERIES IN ENTREPRENEURSHIP	1
ENR 37040	ENTREPRENEURIAL TOOLS <sup>1</sup>	3
ENR 47047	STRATEGIC DILEMMAS IN ENTREPRENEURSHIP	3
Minor Electives, choose from the following:		6
ENR 27192	BEGINNING PRACTICUM (ELR)	
ENR 37045	SALES IN THE ENTREPRENEURIAL VENTURE	
ENR 37065	ENTREPRENEURIAL FINANCE	
ENR 37070	SOCIAL ENTREPRENEURSHIP	
ENR 37075	ENTREPRENEURIAL MARKETING	
ENR 37192	ADVANCED PRACTICUM (ELR)	
ENR 37195	SPECIAL TOPICS IN ENTREPRENEURSHIP I	
ENR 47070	NEW ENTERPRISE FORMATION	
ENR 47091	SEMINAR IN ENTREPRENEURSHIP	
ENR 47187	INTERNATIONAL EXPERIENCE IN ENTREPRENEURSHIP	
ENR 47195	SPECIAL TOPICS IN ENTREPRENEURSHIP II	
FDM 35280	FASHION ENTREPRENEURSHIP	
MKTG 35056	SOCIAL MEDIA MARKETING	
MKTG 45047	ADVANCED PROFESSIONAL SELLING	
Minimum Total Credit Hours:		19

<sup>1</sup> Managerial Marketing majors must take MMTG 35011.

## Graduation Requirements

Minimum Minor GPA	Minimum Overall GPA
2.250	2.000

- Students may not pursue a minor and major in the same discipline.
- Minimum 6 credit hours in the minor must be upper-division coursework (30000 and 40000 level).
- Minimum 6 credit hours in the minor must be outside of the course requirements for any major or other minor the student is pursuing.
- Minimum 50 percent of the total credit hours for the minor must be taken at Kent State (in residence).

## Entrepreneurship for Non-Business Majors - Minor

### College of Business Administration

Department of Marketing and Entrepreneurship  
534 Business Administration Building  
Kent Campus  
330-672-2170  
marketing@kent.edu  
www.kent.edu/business/marketing

## Description

The Entrepreneurship for Non-Business Majors minor brings an entrepreneurial perspective to students' major fields of study. Entrepreneurship is more than a set of tools and techniques for starting and growing a business. It is a mindset, a creative way of looking at opportunities, a passion, doing what one loves, a challenge, persistence and creating wealth and operating a business, whether one owns it or not.

Students in the minor are immersed in the entrepreneurial process through coursework, entrepreneurial projects and exposure to many entrepreneurs in the community. Students are prepared for the various aspects of starting a business, acquiring a business, corporate entrepreneurship or working for a small business.

### Fully Offered At:

- Kent Campus

## Admission Requirements

Admission to a minor is open to students declared in a bachelor's degree, the A.A.B. or A.A.S. degree or the A.T.S. degree (not Individualized Program major). Students declared only in the A.A. or A.S. degree or the A.T.S. degree in Individualized Program may not declare a minor. Students may not pursue a minor and a major in the same discipline.

To declare the Entrepreneurship for Non-Business Majors minor, students must have a minimum 2.250 overall Kent State University GPA. No Kent State University GPA is required if the student is a first-semester freshman or transfer student admitted in good standing.

Only students declared in a major outside the College of Business Administration may declare the minor.

## Minor Requirements

Code	Title	Credit Hours
<b>Minor Requirements</b>		
ECON 22060	PRINCIPLES OF MICROECONOMICS (KSS)	3
ENR 27056	INTRODUCTION TO ENTREPRENEURSHIP	3
ENR 27466	SPEAKER SERIES IN ENTREPRENEURSHIP	1
ENR 37040	ENTREPRENEURIAL TOOLS	3
ENR 37065	ENTREPRENEURIAL FINANCE	3
ENR 47047	STRATEGIC DILEMMAS IN ENTREPRENEURSHIP	3
Minor Elective, choose from the following:		3
ENR 37045	SALES IN THE ENTREPRENEURIAL VENTURE	

ENTR 37070	SOCIAL ENTREPRENEURSHIP
ENTR 37075	ENTREPRENEURIAL MARKETING
ENTR 47070	NEW ENTERPRISE FORMATION
ENTR 47187	INTERNATIONAL EXPERIENCE IN ENTREPRENEURSHIP
FDM 35280	FASHION ENTREPRENEURSHIP
MKTG 35056	SOCIAL MEDIA MARKETING
MKTG 45047	ADVANCED PROFESSIONAL SELLING

Minimum Total Credit Hours: 19

## Graduation Requirements

Minimum Minor GPA	Minimum Overall GPA
2.250	2.000

- Students may not pursue a minor and major in the same discipline.
- Minimum 6 credit hours in the minor must be upper-division coursework (30000 and 40000 level).
- Minimum 6 credit hours in the minor must be outside of the course requirements for any major or other minor the student is pursuing.
- Minimum 50 percent of the total credit hours for the minor must be taken at Kent State (in residence).

## Managerial Marketing - B.B.A.

### College of Business Administration

Department of Marketing and Entrepreneurship  
534 Business Administration Building  
Kent Campus  
330-672-2170  
marketing@kent.edu  
www.kent.edu/business/marketing

## Description

The Bachelor of Business Administration degree in Managerial Marketing prepares students to be marketing practitioners by helping them to fully develop the analytical, decision-making and communications (written and oral) skills used and valued by individuals working in this field. Faculty engage each student in active learning through hands-on assignments, case studies, projects with real businesses, and dynamic interactions with the faculty member and other students in the classroom. Each course aims to strengthen writing skills by emphasizing logical flow, persuasiveness and succinctness. Because coursework is sequential and integrated, each course builds upon prior classes to give students a comprehensive body of knowledge, skills and abilities.

The objective of this program is to educate students to function effectively in business environments where they will have to make autonomous decisions and be required to take action on their own initiative.

Managerial Marketing students may apply early to the M.B.A. degree and double count 9 credit hours of graduate courses toward both degree programs. See the Combined Bachelor's/Master's Degree Program policy in the University Catalog for more information.

## Fully Offered At:

- Kent Campus

## Accreditation

AACSB, International - The Association to Advance Collegiate Schools of Business

## Admission Requirements

The university affirmatively strives to provide educational opportunities and access to students with varied backgrounds, those with special talents and adult students who graduated from high school three or more years ago.

**Freshman Students on the Kent Campus:** The freshman admission policy on the Kent Campus is selective. Admission decisions are based upon the following: cumulative grade point average, ACT and/or SAT scores, strength of high school college preparatory curriculum and grade trends. The Admissions Office at the Kent Campus may defer the admission of students who do not meet admissions criteria but who demonstrate areas of promise for successful college study. Deferred applicants may begin their college coursework at one of seven regional campuses of Kent State University. For more information on admissions, including additional requirements for some academic programs, visit the admissions website for new freshmen.

**Freshman Students on the Regional Campuses:** Kent State campuses at Ashtabula, East Liverpool, Geauga, Salem, Stark, Trumbull and Tuscarawas, as well as the Regional Academic Center in Twinsburg, have open enrollment admission for students who hold a high school diploma, GED or equivalent.

**English Language Proficiency Requirements for International Students:** All international students must provide proof of English language proficiency (unless they meet specific exceptions) by earning a minimum 525 TOEFL score (71 on the Internet-based version), minimum 75 MELAB score, minimum 6.0 IELTS score or minimum 48 PTE score, or by completing the ESL level 112 Intensive Program. For more information on international admission, visit the Office of Global Education's admission website.

**Transfer, Transitioning and Former Students:** For more information about admission criteria for transfer, transitioning and former students, please visit the admissions website.

An overall GPA of at least 2.50 (2.25 for economics and entrepreneurship) is required for admission into the College of Business Administration. Students who have previously attended Kent State and have completed (or the equivalent of) COMM 15000, ENG 21011, MATH 11010 and MKTG 25010 must have earned a minimum C (2.00) grade.

### Additional Information:

- Students are admitted into the Managerial Marketing major in fall semester only.

## Program Learning Outcomes

Graduates of this program will be able to:

1. Demonstrate an ability to conduct financial analyses for the purposes of making strategic marketing decisions.
2. Demonstrate an understanding of segmentation and target marketing.
3. Demonstrate an ability to analyze market research data.
4. Demonstrate an ability to analyze markets and competitors within markets.

Graduates of all Bachelor of Business Administration programs will be able to:

1. Recall strategic frameworks that are used to make business decisions.
2. Perform basic calculations using quantitative tools that are used to support business decisions.
3. Articulate and deliberate their ideas in writing.
4. Articulate and deliberate their ideas orally.
5. Identify ethical dilemmas and stakeholders.
6. Recommend alternatives and consequences and choose a reasoned conclusion from the alternatives given.
7. Identify global factors in making a business decision.
8. Analyze global factors in making a business decision.

## University Requirements

All students in a bachelor's degree program at Kent State University must complete the following university requirements for graduation.

**NOTE:** University requirements may be fulfilled in this program by specific course requirements. Please see Program Requirements for details.

Destination Kent State: First Year Experience	1
Course is not required for students with 25 transfer credits, excluding College Credit Plus, or age 21+ at time of admission.	
Diversity Domestic/Global (DIVD/DIVG)	2 courses
Students must successfully complete one domestic and one global course, of which one must be from the Kent Core.	
Experiential Learning Requirement (ELR)	varies
Students must successfully complete one course or approved experience.	
Kent Core (see table below)	36-37
Writing-Intensive Course (WIC)	1 course
Students must earn a minimum C grade in the course.	
Upper-Division Requirement	39 (or 42)
Students must successfully complete 39 upper-division (numbered 30000 to 49999) credit hours to graduate. Students in a B.A. and/or B.S. degree in the College of Arts and Sciences must complete 42 upper-division credit hours.	
Total Credit Hour Requirement	120
Some bachelor's degrees require students to complete more than 120 credit hours.	

## Kent Core Requirements

Kent Core Composition (KCOMP)	6
Kent Core Mathematics and Critical Reasoning (KMCR)	3
Kent Core Humanities and Fine Arts (KHUM/KFA) (min one course each)	9
Kent Core Social Sciences (KSS) (must be from two disciplines)	6

Kent Core Basic Sciences (KBS/KLAB) (must include one laboratory)	6-7
Kent Core Additional (KADL)	6
<b>Total Credit Hours:</b>	<b>36-37</b>

## Program Requirements

### Major Requirements

Code	Title	Credit Hours
<b>Major Requirements (courses count in major GPA)</b>		
MMTG 35011	MARKETING TOOLS (WIC) <sup>1</sup>	3
MMTG 35021	RESEARCH FOR MARKETING DECISIONS	3
MMTG 35024	MARKETING TOOLS LABORATORY	1
MMTG 35025	MARKETING COMMUNICATIONS LABORATORY	1
MMTG 35026	MARKETING RESEARCH LABORATORY	1
MMTG 35030	SALES AND SALES MANAGEMENT	3
MMTG 45020	COMPETITIVE MARKET ANALYSIS	3
MMTG 45023	CUSTOMER ANALYSIS	3
MMTG 45039	PROMOTION MANAGEMENT	3
MMTG 45040	INTEGRATED MARKETING STRATEGY (ELR)	3
<b>Additional Requirements (courses do not count in major GPA)</b>		
ACCT 23020	INTRODUCTION TO FINANCIAL ACCOUNTING	3
ACCT 23021	INTRODUCTION TO MANAGERIAL ACCOUNTING	3
BUS 10123	EXPLORING BUSINESS <sup>2</sup>	3
CIS 24053	INTRODUCTION TO COMPUTER APPLICATIONS	3
COMM 15000	INTRODUCTION TO HUMAN COMMUNICATION (KADL) (min C grade)	3
BUS 30062	ADVANCED PROFESSIONAL DEVELOPMENT	3
ECON 22060	PRINCIPLES OF MICROECONOMICS (KSS)	3
ECON 22061	PRINCIPLES OF MACROECONOMICS (KSS)	3
FIN 26074	LEGAL ENVIRONMENT OF BUSINESS	3
FIN 36053	BUSINESS FINANCE	3
MATH 11010	ALGEBRA FOR CALCULUS (KMCR) (min C grade)	3
MATH 11012	INTUITIVE CALCULUS (KMCR)	3-5
or MATH 12002	ANALYTIC GEOMETRY AND CALCULUS I (KMCR)	
MGMT 24056	BUSINESS ANALYTICS I	3
MGMT 24163	PRINCIPLES OF MANAGEMENT	3
MGMT 34060	OPERATIONS MANAGEMENT	3
MGMT 34156	BUSINESS ANALYTICS II	3
or MKTG 35061	MARKETING ANALYTICS	
MGMT 44285	INTEGRATED BUSINESS POLICY AND STRATEGY	3
MKTG 25010	PRINCIPLES OF MARKETING (min C grade)	3
UC 10097	DESTINATION KENT STATE: FIRST YEAR EXPERIENCE	1
UC 10162	INTRODUCTION TO PROFESSIONAL DEVELOPMENT	1
Kent Core Composition (min C grade) <sup>4</sup>		6
Kent Core Humanities and Fine Arts (minimum one course from each)		9
Kent Core Social Sciences		3
Kent Core Basic Sciences (must include one laboratory)		6-7
General Electives (total credit hours depends on earning 120 credit hours including 39 upper-division credit hours) <sup>5</sup>		16
<b>Minimum Total Credit Hours:</b>		<b>120</b>



- <sup>1</sup> A minimum C grade must be earned to fulfill the writing-intensive requirement. Should students earn below a minimum C grade in MMTG 35011 they are required to repeat the course during the following fall semester to alleviate skill deficits, and they will not be eligible to progress in the major.
- <sup>2</sup> A student changing to the College of Business Administration or transferring may be waived out of BUS 10123 if:
1. 30 or more credit hours have been earned and any two classes (from ACCT 23020, ACCT 23021, FIN 26074, MGMT 24163, MKTG 25010 or CIS 24053) have successfully been completed.
  2. 60 or more credit hours have been earned and the student has successfully completed one course from (ACCT 23020, ACCT 23021, FIN 26074, MGMT 24163, MKTG 25010 or CIS 24053)
  3. At the discretion of the Dean's Office, the student has sufficient breadth and depth of knowledge in a business field (as demonstrated by a CLEP exam or Credit by Exam) but does not meet the requirements listed above.
- <sup>3</sup> Students who have taken MATH 10041 for another program may use it as a substitute for MGMT 24056.
- <sup>4</sup> Minimum C grade in ENG 21011 or HONR 20197.
- <sup>5</sup> Students may take or use any course at any level as long as the minimum 39-credit hours requirement for upper-division courses is satisfied for graduation with a B.B.A. Although not required, an education abroad experience is encouraged as a general elective. Exceptions: Maximum 4 credit hours of Physical Activity, Wellness and Sport (PWS) courses may be counted toward the 120 total credit hours or 39-upper-division-credit-hour graduation requirement. General elective courses may be selected from any area and at any level provided students do not go over the PWS restriction and they satisfy the 39 credit hours upper-division requirements. Any other exceptions must be approved by the assistant dean.
- Students who have passed MMTG 35030 will not receive graduation credit for MKTG 45046 or ENTR 37045.
  - Students who have passed MMTG 45039 will not receive graduation credit for MKTG 45045.
  - Students must complete at least 50 percent of business credit hours (required for the business degree) in-residence on a Kent State University campus.
  - Students must complete two measures of outcomes assessment as specified by the College of Business Administration for complete satisfaction of the B.B.A.

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## Progression Requirements

- Minimum 2.500 cumulative GPA
- Minimum C grade in: COMM 15000, ENG 21011, MATH 11010, MKTG 25010 and MMTG 35011

## Graduation Requirements

Minimum Major GPA	Minimum Overall GPA
2.500	2.500

- The curriculum is to be taken in sequence. Not all courses are offered each semester. Students should obtain from the department a copy of the schedule of course sequencing.
- Only three Managerial Marketing major (3/45000) courses may be repeated and counted toward the major. Exceptions require the approval of the department chair. All attempts count in the computation of the major, upper-division business and cumulative GPA.
- Entrepreneurship majors who are also majoring in Managerial Marketing, and who have taken ENTR 37045, are not required to take MMTG 35030 for the Managerial Marketing major. However, a double major in entrepreneurship and Managerial Marketing cannot waive ENTR 37045 by taking MMTG 35030.
- Managerial Marketing majors who are also majoring in Entrepreneurship and who have taken MMTG 35011 are not required to take ENTR 37040; however, an Entrepreneurship major cannot waive the required MMTG 35011 course by taking ENTR 37040 because MMTG 35011 is a writing-intensive course.

## Roadmap

This roadmap is a recommended semester-by-semester plan of study for this major. However, courses designated as critical (!) must be completed in the semester listed to ensure a timely graduation.

Semester One		Credits
BUS 10123	EXPLORING BUSINESS	3
COMM 15000	INTRODUCTION TO HUMAN COMMUNICATION (KADL)	3
MATH 11010	ALGEBRA FOR CALCULUS (KMCR)	3
UC 10097	DESTINATION KENT STATE: FIRST YEAR EXPERIENCE	1
Kent Core Requirement		3
Kent Core Requirement		3
Credit Hours		16
Semester Two		Credits
CIS 24053	INTRODUCTION TO COMPUTER APPLICATIONS	3
ECON 22060	PRINCIPLES OF MICROECONOMICS (KSS)	3
MATH 11012	INTUITIVE CALCULUS (KMCR)	3-5
or	or ANALYTIC GEOMETRY AND CALCULUS I	
MATH 12002	(KMCR)	
UC 10162	INTRODUCTION TO PROFESSIONAL DEVELOPMENT	1
Kent Core Requirement		3
Kent Core Requirement		3
Credit Hours		16
Semester Three		Credits
ACCT 23020	INTRODUCTION TO FINANCIAL ACCOUNTING	3
ECON 22061	PRINCIPLES OF MACROECONOMICS (KSS)	3
FIN 26074	LEGAL ENVIRONMENT OF BUSINESS	3
MGMT 24163	PRINCIPLES OF MANAGEMENT	3
Kent Core Requirement		3
Credit Hours		15
Semester Four		Credits
ACCT 23021	INTRODUCTION TO MANAGERIAL ACCOUNTING	3
BUS 30062	ADVANCED PROFESSIONAL DEVELOPMENT	3
! MKTG 25010	PRINCIPLES OF MARKETING	3
Kent Core Requirement		3
Kent Core Requirement		3
Credit Hours		15
Semester Five		Credits
Required for progression in the major: Minimum 2.500 overall GPA, minimum C grade in COMM 15000, ENG 21011, MATH 11010 and MKTG 25010.		
FIN 36053	BUSINESS FINANCE	3
MGMT 24056	BUSINESS ANALYTICS I	3
! MMTG 35011	MARKETING TOOLS (WIC)	3
! MMTG 35024	MARKETING TOOLS LABORATORY	1
MMTG 35025	MARKETING COMMUNICATIONS LABORATORY	1
Kent Core Requirement		3
General Electives		3
Credit Hours		17
Semester Six		Credits
Required: minimum overall 2.500 GPA		
MGMT 34060	OPERATIONS MANAGEMENT	3
! MMTG 35021	RESEARCH FOR MARKETING DECISIONS	3
! MMTG 35026	MARKETING RESEARCH LABORATORY	1

! MMTG 35030	SALES AND SALES MANAGEMENT	3
General Electives		6
Credit Hours		16
Semester Seven		Credits
Required: minimum overall 2.500 GPA		
MGMT 34156	BUSINESS ANALYTICS II	3
or	or MARKETING ANALYTICS	
MKTG 35061		
! MMTG 45023	CUSTOMER ANALYSIS	3
! MMTG 45020	COMPETITIVE MARKET ANALYSIS	3
General Electives		4
Credit Hours		13
Semester Eight		Credits
Required: minimum overall 2.500 GPA and completion of The Assurance of Learning Assessment given in MGMT 44285		
MGMT 44285	INTEGRATED BUSINESS POLICY AND STRATEGY	3
! MMTG 45039	PROMOTION MANAGEMENT	3
! MMTG 45040	INTEGRATED MARKETING STRATEGY (ELR)	3
General Elective		3
Credit Hours		12
Minimum Total Credit Hours:		120

## Marketing - B.B.A.

### College of Business Administration

Department of Marketing and Entrepreneurship

534 Business Administration Building

Kent Campus

330-672-2170

marketing@kent.edu

www.kent.edu/business/marketing

## Description

The Bachelor of Business Administration degree in Marketing provides a general approach that can be applied in a wide range of areas of business (e.g., for profit, nonprofit, service and manufacturing). The program addresses the breadth within the marketing field through courses (e.g., consumer behavior, marketing research, international marketing, personal selling, advertising and promotion management) that provide the student with an appreciation of all central topic areas in the field.

The program gives students a generalist's perspective and working knowledge of the theory and practice of marketing. Students learn the tasks involved in the analysis, planning, implementation and control of marketing programs that result in strategies and tactics used by businesses to sell products to consumers and other businesses. Typically, a traditional lecture format is used by instructors in this program.

Marketing students may apply early to the M.B.A. degree and double count 9 credit hours of graduate courses toward both degree programs. See the Combined Bachelor's/Master's Degree Program policy in the University Catalog for more information.

### Fully Offered At:

- Kent Campus
- Stark Campus

## Accreditation

AACSB, International - The Association to Advance Collegiate Schools of Business

## Admission Requirements

The university affirmatively strives to provide educational opportunities and access to students with varied backgrounds, those with special talents and adult students who graduated from high school three or more years ago.

**Freshman Students on the Kent Campus:** The freshman admission policy on the Kent Campus is selective. Admission decisions are based upon the following: cumulative grade point average, ACT and/or SAT scores, strength of high school college preparatory curriculum and grade trends. The Admissions Office at the Kent Campus may defer the admission of students who do not meet admissions criteria but who demonstrate areas of promise for successful college study. Deferred applicants may begin their college coursework at one of seven regional campuses of Kent State University. For more information on admissions, including additional requirements for some academic programs, visit the admissions website for new freshmen.

**Freshman Students on the Regional Campuses:** Kent State campuses at Ashtabula, East Liverpool, Geauga, Salem, Stark, Trumbull and Tuscarawas, as well as the Regional Academic Center in Twinsburg, have open enrollment admission for students who hold a high school diploma, GED or equivalent.

**English Language Proficiency Requirements for International Students:** All international students must provide proof of English language proficiency (unless they meet specific exceptions) by earning a minimum 525 TOEFL score (71 on the Internet-based version), minimum 75 MELAB score, minimum 6.0 IELTS score or minimum 48 PTE score, or by completing the ESL level 112 Intensive Program. For more information on international admission, visit the Office of Global Education's admission website.

**Transfer, Transitioning and Former Students:** For more information about admission criteria for transfer, transitioning and former students, please visit the admissions website.

**Transfer Student:** A minimum 2.500 overall GPA is required for admission into the major. Students who have previously attended Kent State and have completed (or the equivalent of) COMM 15000, ENG 21011, MATH 11010 and MKTG 25010 must have earned a minimum C grade in the courses.

## Program Learning Outcomes

Graduates of this program will be able to:

1. Demonstrate an understanding of segmentation, target marketing, and positioning.
2. Demonstrate an ability to collect and analyze market research data.
3. Demonstrate an understanding of effective personal selling tactics.
4. Demonstrate an ability to conduct financial analyses for the purposes of making strategic marketing decisions.

Graduates of all Bachelor of Business Administration programs will be able to:

1. Recall strategic frameworks that are used to make business decisions.
2. Perform basic calculations using quantitative tools that are used to support business decisions.
3. Articulate and deliberate their ideas in writing.
4. Articulate and deliberate their ideas orally.
5. Identify ethical dilemmas and stakeholders.
6. Recommend alternatives and consequences and choose a reasoned conclusion from the alternatives given.
7. Identify global factors in making a business decision.
8. Analyze global factors in making a business decision.

## University Requirements

All students in a bachelor's degree program at Kent State University must complete the following university requirements for graduation.

**NOTE:** University requirements may be fulfilled in this program by specific course requirements. Please see Program Requirements for details.

Destination Kent State: First Year Experience	1
Course is not required for students with 25 transfer credits, excluding College Credit Plus, or age 21+ at time of admission.	
Diversity Domestic/Global (DIVD/DIVG)	2 courses
Students must successfully complete one domestic and one global course, of which one must be from the Kent Core.	
Experiential Learning Requirement (ELR)	varies
Students must successfully complete one course or approved experience.	
Kent Core (see table below)	36-37
Writing-Intensive Course (WIC)	1 course
Students must earn a minimum C grade in the course.	
Upper-Division Requirement	39 (or 42)
Students must successfully complete 39 upper-division (numbered 30000 to 49999) credit hours to graduate. Students in a B.A. and/or B.S. degree in the College of Arts and Sciences must complete 42 upper-division credit hours.	
Total Credit Hour Requirement	120
Some bachelor's degrees require students to complete more than 120 credit hours.	

## Kent Core Requirements

Kent Core Composition (KCOMP)	6
Kent Core Mathematics and Critical Reasoning (KMCR)	3
Kent Core Humanities and Fine Arts (KHUM/KFA) (min one course each)	9
Kent Core Social Sciences (KSS) (must be from two disciplines)	6
Kent Core Basic Sciences (KBS/KLAB) (must include one laboratory)	6-7
Kent Core Additional (KADL)	6
<b>Total Credit Hours:</b>	<b>36-37</b>

## Program Requirements

### Major Requirements

Code	Title	Credit Hours
<b>Major Requirements (courses count in major GPA)</b>		
MKTG 35030	MARKETING APPLICATIONS (min C grade) <sup>1,2</sup>	3

MKTG 35035	CONSUMER BEHAVIOR <sup>2</sup>	3
MKTG 35050	MARKETING RESEARCH <sup>2</sup>	3
MKTG 45046	PROFESSIONAL SELLING	3
MKTG 45084	MARKETING POLICIES AND STRATEGIES (ELR) (WIC) (min C grade)	3
Major Selected Courses, choose from the following:		9
ENTR 27056	INTRODUCTION TO ENTREPRENEURSHIP	
MKTG 35056	SOCIAL MEDIA MARKETING	
MKTG 45045	ADVERTISING AND PROMOTION MANAGEMENT	
MKTG 45047	ADVANCED PROFESSIONAL SELLING	
MKTG 45060	INTERNATIONAL MARKETING	
MKTG 45082	SERVICES MARKETING	
MKTG 45091	MARKETING SEMINAR	
MKTG 45095	SPECIAL TOPICS IN MARKETING	
MKTG 45096	INDIVIDUAL INVESTIGATION IN MARKETING	
MKTG 45187	INTERNATIONAL EXPERIENCE IN MARKETING	
MKTG 45192	SALES INTERNSHIP (ELR) <sup>3</sup>	
	or MKTG 45292 MARKETING INTERNSHIP (ELR)	
<b>Additional Requirements (courses do not count in major GPA)</b>		
ACCT 23020	INTRODUCTION TO FINANCIAL ACCOUNTING	3
ACCT 23021	INTRODUCTION TO MANAGERIAL ACCOUNTING	3
BUS 10123	EXPLORING BUSINESS <sup>4</sup>	3
BUS 30062	ADVANCED PROFESSIONAL DEVELOPMENT	3
CIS 24053	INTRODUCTION TO COMPUTER APPLICATIONS	3
COMM 15000	INTRODUCTION TO HUMAN COMMUNICATION (KADL) (min C grade)	3
ECON 22060	PRINCIPLES OF MICROECONOMICS (KSS)	3
ECON 22061	PRINCIPLES OF MACROECONOMICS (KSS)	3
FIN 26074	LEGAL ENVIRONMENT OF BUSINESS	3
FIN 36053	BUSINESS FINANCE	3
MATH 11010	ALGEBRA FOR CALCULUS (KMCR) (min C grade)	3
MATH 11012	INTUITIVE CALCULUS (KMCR)	3-5
	or MATH 12002 ANALYTIC GEOMETRY AND CALCULUS I (KMCR)	
MGMT 24056	BUSINESS ANALYTICS I	3
MGMT 24163	PRINCIPLES OF MANAGEMENT	3
MGMT 34060	OPERATIONS MANAGEMENT	3
MGMT 34156	BUSINESS ANALYTICS II	3
	or MKTG 35061 MARKETING ANALYTICS	
MGMT 44285	INTEGRATED BUSINESS POLICY AND STRATEGY	3
MKTG 25010	PRINCIPLES OF MARKETING (min C grade)	3
UC 10097	DESTINATION KENT STATE: FIRST YEAR EXPERIENCE	1
UC 10162	INTRODUCTION TO PROFESSIONAL DEVELOPMENT	1
Kent Core Composition (min C grade) <sup>6</sup>		6
Kent Core Humanities and Fine Arts (minimum one course from each)		9
Kent Core Social Sciences		3
Kent Core Basic Sciences (must include one laboratory)		6-7
General Electives (minimum 6 upper-division credit hours) <sup>7</sup>		16
Minimum Total Credit Hours:		120

<sup>1</sup> Students must take MKTG 35030 as the first course in the major and earn a minimum C grade to continue in the major. MKTG 35030 may be taken concurrently with MKTG 35035 or MKTG 35050. Should students earn below a minimum C grade in MKTG 35030, they are required to repeat the course, with a maximum of three repeats.

<sup>2</sup> Students who change their major from managerial marketing to marketing, may use MMTG 35011 in place of MKTG 35030, MMTG 35021 in place of MKTG 35050 and MMTG 45023 in place of MKTG 35035.

<sup>3</sup> Students may take either MKTG 45192 or MKTG 45292 to serve as a major elective but not both.

<sup>4</sup> A student changing to the College of Business Administration or transferring may be waived out of BUS 10123 if:

1. 30 or more credit hours have been earned and any two classes (from ACCT 23020, ACCT 23021, FIN 26074, MGMT 24163, MKTG 25010 or CIS 24053) have successfully been completed.
2. 60 or more credit hours have been earned and the student has successfully completed one course from (ACCT 23020, ACCT 23021, FIN 26074, MGMT 24163, MKTG 25010 or CIS 24053)
3. At the discretion of the Dean's Office, the student has sufficient breadth and depth of knowledge in a business field (as demonstrated by a CLEP exam or Credit by Exam) but does not meet the requirements listed above.

<sup>5</sup> Students who have taken MATH 10041 for another program may use it as a substitute for MGMT 24056.

<sup>6</sup> Minimum C grade in ENG 21011 or HONR 20197.

<sup>7</sup> Students may take or use any course at any level as long as the minimum 39-credit-hours requirement for upper-division courses is satisfied for graduation with a B.B.A. Exceptions: Maximum 4 credit hours of Physical Activity, Wellness and Sport (PWS) courses may be counted toward the 120 total credit hours or 39-upper-division-credit-hour graduation requirement. General elective courses may be selected from any area and at any level provided students do not go over the PWS restriction and they satisfy the 39 credit hour upper-division requirements. A minor (business or non-business) is encouraged. Any other exceptions must be approved by the assistant dean.

## Progression Requirements

- Minimum 2.500 overall GPA
- Minimum C grade in COMM 15000, ENG 21011, MATH 11010, MKTG 25010 and MKTG 35030

## Graduation Requirements

Minimum Major GPA	Minimum Overall GPA
2.500	2.500

- Only three of marketing major (3/45000) courses may be repeated and counted toward the marketing major. All attempts count in the computation of the major and overall GPA.
- To progress into the major student must maintain a minimum 2.50 GPA
- Entrepreneurship majors who are also majoring in either Marketing or Managerial Marketing, and who have taken ENTR 37045, are not required to take MKTG 45046 for the Marketing major or MMTG 35030 for the Managerial Marketing major or minor. However, a double major in Entrepreneurship and Marketing or Managerial Marketing cannot waive ENTR 37045 by taking either MKTG 45046 or MMTG 35030.

## **General Degree Requirement for a Bachelor of Business Administration**

1. Students must complete at least 50 percent of business credit hours (required for the business degree) in-residence on a Kent State University campus.
2. To earn a College of Business Administration minor, students must complete at least 50 percent of the total required credit hours for the minor at Kent State University, at least 6 credit hours in the minor must be at the upper division (30-40000 level), and at least 6 credit hours in the minor must be different from courses in the student's major and minor(s). Students may not pursue a minor and major in the same discipline.
3. A minimum 2.500 GPA must be earned for all work carried at Kent State University for the accounting, business management, computer information systems, finance, general business, human resource management, managerial marketing and marketing majors. The economics and entrepreneurship majors require a minimum cumulative 2.250 GPA. A minimum 2.500 GPA must be earned in the major field (which includes all major requirements and major electives for the accounting, business management, computer information systems, finance, general business, human resource management, managerial marketing and marketing majors). The economics and entrepreneurship majors require a 2.250 major GPA.
4. Students must complete two measures of outcomes assessments as specified by the College of Business Administration for complete satisfaction of the B.B.A.



## Roadmap

This roadmap is a recommended semester-by-semester plan of study for this major. However, courses designated as critical (!) must be completed in the semester listed to ensure a timely graduation.

Semester One		Credits
BUS 10123	EXPLORING BUSINESS	3
COMM 15000	INTRODUCTION TO HUMAN COMMUNICATION (KADL)	3
MATH 11010	ALGEBRA FOR CALCULUS (KMCR)	3
UC 10097	DESTINATION KENT STATE: FIRST YEAR EXPERIENCE	1
Kent Core Requirement		3
Kent Core Requirement		3
Credit Hours		16
Semester Two		Credits
CIS 24053	INTRODUCTION TO COMPUTER APPLICATIONS	3
ECON 22060	PRINCIPLES OF MICROECONOMICS (KSS)	3
MATH 11012	INTUITIVE CALCULUS (KMCR)	3-5
or	or ANALYTIC GEOMETRY AND CALCULUS I (KMCR)	
MATH 12002		
UC 10162	INTRODUCTION TO PROFESSIONAL DEVELOPMENT	1
Kent Core Requirement		3
Kent Core Requirement		3
Credit Hours		16
Semester Three		Credits
ACCT 23020	INTRODUCTION TO FINANCIAL ACCOUNTING	3
ECON 22061	PRINCIPLES OF MACROECONOMICS (KSS)	3
FIN 26074	LEGAL ENVIRONMENT OF BUSINESS	3
MGMT 24163	PRINCIPLES OF MANAGEMENT	3
Kent Core Requirement		3
Credit Hours		15
Semester Four		Credits
ACCT 23021	INTRODUCTION TO MANAGERIAL ACCOUNTING	3
BUS 30062	ADVANCED PROFESSIONAL DEVELOPMENT	3
MGMT 24056	BUSINESS ANALYTICS I	3
! MKTG 25010	PRINCIPLES OF MARKETING	3
Kent Core Requirement		3
Credit Hours		15
Semester Five		Credits
Required for progression in the major: Minimum 2.500 overall GPA, minimum C grade in COMM 15000, ENG 21011, MATH 11010 and MKTG 25010.		
MGMT 34060	OPERATIONS MANAGEMENT	3
! MKTG 35030	MARKETING APPLICATIONS	3
MKTG 35035	CONSUMER BEHAVIOR	3
MKTG 35050	MARKETING RESEARCH	3
Kent Core Requirement		3
Credit Hours		15
Semester Six		Credits
Required: minimum overall 2.500 GPA		
FIN 36053	BUSINESS FINANCE	3
MGMT 34156	BUSINESS ANALYTICS II	3
or	or MARKETING ANALYTICS	
MKTG 35061		
! Major Electives		3
Kent Core Requirement		3

General Electives	3	
Credit Hours	15	
Semester Seven		
Required: minimum overall 2.500 GPA		
MKTG 45046	PROFESSIONAL SELLING	3
! Major Electives		3
General Electives		9
Credit Hours	15	
Semester Eight		
Required: minimum overall 2.500 GPA and completion of The Assurance of Learning Assessment given in MGMT 44285		
MGMT 44285	INTEGRATED BUSINESS POLICY AND STRATEGY	3
MKTG 45084	MARKETING POLICIES AND STRATEGIES (ELR) (WIC)	3
Major Electives		3
General Electives		4
Credit Hours	13	
Minimum Total Credit Hours:	120	

## Marketing - Minor

### College of Business Administration

Department of Marketing and Entrepreneurship

534 Business Administration Building

Kent Campus

330-672-2170

marketing@kent.edu

www.kent.edu/business/marketing

## Description

In today's highly competitive business environment, successful managers must have a strong focus on providing customer satisfaction as well as the ability to research consumer needs, wants and desires; understand what these mean in terms of company offerings; and communicate the benefits of their products or services effectively. The Marketing minor helps students develop the perspectives and skills necessary to understand consumers and to provide customer satisfaction. Students completing the minor should be equipped to bring a marketing orientation to both profit and not-for-profit organizations.

### Fully Offered At:

- Kent Campus
- Stark Campus

## Admission Requirements

Admission to a minor is open to students declared in a bachelor's degree, the A.A.B. or A.A.S. degree or the A.T.S. degree (not Individualized Program major). Students declared only in the A.A. or A.S. degree or the A.T.S. degree in Individualized Program may not declare a minor. Students may not pursue a minor and a major in the same discipline.

- To declare the minor, students must have a minimum 2.500 overall Kent State University GPA. No Kent State University GPA is required if the student is a first-semester freshman or transfer student admitted in good standing.

## Minor Requirements

Code	Title	Credit Hours
<b>Minor Requirements</b>		
ECON 22060	PRINCIPLES OF MICROECONOMICS (KSS)	3
MKTG 25010	PRINCIPLES OF MARKETING	3
MKTG 35035	CONSUMER BEHAVIOR	3
Choose from the following:		9
ENTR 27056	INTRODUCTION TO ENTREPRENEURSHIP	
MKTG 35050	MARKETING RESEARCH	
MKTG 35056	SOCIAL MEDIA MARKETING	
MKTG 45045	ADVERTISING AND PROMOTION MANAGEMENT	
MKTG 45046	PROFESSIONAL SELLING	
MKTG 45047	ADVANCED PROFESSIONAL SELLING	
MKTG 45060	INTERNATIONAL MARKETING	
MKTG 45082	SERVICES MARKETING	
MKTG 45091	MARKETING SEMINAR	
MKTG 45187	INTERNATIONAL EXPERIENCE IN MARKETING	
Minimum Total Credit Hours:		18

## Graduation Requirements

Minimum Minor GPA	Minimum Overall GPA
2.500	2.000

- Students may not pursue a minor and major in the same discipline.
- Students who major in Entrepreneurship and minor in Marketing cannot use ENTR 27056 or MKTG 45046 as Marketing minor electives. Also, if Entrepreneurship majors use MKTG 35056 as an entrepreneurship major elective, it cannot also be used as a Marketing minor elective unless the other 6 credit hours (of the 9 credit hours needed for Marketing minor electives) are different from the Entrepreneurship major.
- Minimum 6 credit hours in the minor must be upper-division coursework (30000 and 40000 level).
- Minimum 6 credit hours in the minor must be outside of the course requirements for any major or other minor the student is pursuing.
- Minimum 50 percent of the total credit hours for the minor must be taken at Kent State (in residence).

## Professional Sales - Undergraduate Certificate

**College of Business Administration**  
 Department of Marketing and Entrepreneurship  
 534 Business Administration Building  
 Kent Campus  
 330-672-2170  
 marketing@kent.edu  
 www.kent.edu/business/marketing

## Description

The Professional Sales undergraduate certificate provides a broad spectrum of employment opportunities when combined with many different majors. It gives students the added edge in job hunting for sales related positions.

### Fully Offered At:

- Kent Campus
- Stark Campus

## Admission Requirements

The university affirmatively strives to provide educational opportunities and access to students with varied backgrounds, those with special talents and adult students who graduated from high school three or more years ago.

**Freshman Students on the Kent Campus:** The freshman admission policy on the Kent Campus is selective. Admission decisions are based upon the following: cumulative grade point average, ACT and/or SAT scores, strength of high school college preparatory curriculum and grade trends. The Admissions Office at the Kent Campus may defer the admission of students who do not meet admissions criteria but who demonstrate areas of promise for successful college study. Deferred applicants may begin their college coursework at one of seven regional campuses of Kent State University. For more information on admissions, including additional requirements for some academic programs, visit the admissions website for new freshmen.

**Freshman Students on the Regional Campuses:** Kent State campuses at Ashtabula, East Liverpool, Geauga, Salem, Stark, Trumbull and Tuscarawas, as well as the Regional Academic Center in Twinsburg, have open enrollment admission for students who hold a high school diploma, GED or equivalent.

**English Language Proficiency Requirements for International Students:** All international students must provide proof of English language proficiency (unless they meet specific exceptions) by earning a minimum 525 TOEFL score (71 on the Internet-based version), minimum 75 MELAB score, minimum 6.0 IELTS score or minimum 48 PTE score, or by completing the ESL level 112 Intensive Program. For more information on international admission, visit the Office of Global Education's admission website.

**Transfer, Transitioning and Former Students:** For more information about admission criteria for transfer, transitioning and former students, please visit the admissions website.

## Program Requirements

### Certificate Requirements

Code	Title	Credit Hours
<b>Certificate Requirements</b>		
ECON 22060	PRINCIPLES OF MICROECONOMICS (KSS)	3
ENTR 37045	SALES IN THE ENTREPRENEURIAL VENTURE	3
or MKTG 45046	PROFESSIONAL SELLING	
or MMTG 35030	SALES AND SALES MANAGEMENT	
MKTG 25010	PRINCIPLES OF MARKETING	3
MKTG 45047	ADVANCED PROFESSIONAL SELLING	3

MKTG 45192	SALES INTERNSHIP (ELR) <sup>1</sup>	3
Minimum Total Credit Hours:		15

<sup>1</sup> An internship application and faculty approval are needed prior to registration for this course. MKTG 45192 may be substituted by a specific, department-approved course if the student has two or more years of full-time experience as a salesperson that includes completion of a rigorous, formal training program. The courses selected may not be double-counted; that is, the selected course must be outside the course requirements for any major or minor the student is pursuing.

## Graduation Requirements

Minimum Certificate GPA	Minimum Overall GPA
2.000	2.000

# College of Communication and Information

## College of Communication and Information

318 University Library  
Kent Campus  
330-672-2950  
ccikent@kent.edu  
www.kent.edu/ci

### Academic Advising Offices

School of Communication Studies  
101 Taylor Hall  
Kent Campus  
330-672-2131  
comm@kent.edu  
www.kent.edu/comm

School of Emerging Media and Technology  
101 Taylor Hall  
Kent Campus  
330-672-2131  
www.kent.edu/dsci

School of Journalism and Mass Communication  
101 Taylor Hall  
Kent Campus  
330-672-8293  
jmc@kent.edu  
www.kent.edu/jmc

School of Information  
314 University Library  
Kent Campus  
330-672-2782  
slisinfo@kent.edu  
www.kent.edu/slis

School of Visual Communication Design  
101 Taylor Hall  
Kent Campus  
330-672-2131

vcd@kent.edu  
www.kent.edu/vcd

The disciplines represented within the College of Communication and Information emphasize different aspects of communication and information theory, research, use and practice. Yet, they all focus on the elements and means of creating, managing, using and evaluating messages, and on information components and processes that are central to communication interaction.

The evolution of digital and electronic media has blurred the distinctions and narrowed the traditional differences between and among communication and information disciplines. The College of Communication and Information provides a coherent and unified structure for the cohesive, collaborative and convergent study of human interaction and information design, production, processing, management, exchange and evaluation, while retaining the unique perspectives and content foci of programs within each of the constituent schools.

The college links programs with a pedagogical and research interest in new technology for information and communication uses, distribution and content. In addition, the School of Communication Studies houses the Communication Instructional Resource Lab and the Communication Research Center. The School of Journalism and Mass Communication houses two centers: the Center for Scholastic Journalism and the Media Law Center for Ethics and Access. The School of Information houses the Center for the Study of Librarianship and the Center for the Study of Information and Religion. In partnership with regional, national and international businesses and organizations, the School of Visual Communication Design engages in multidisciplinary research focused on socially responsible design concepts.

## Departments and Schools

- School of Communication Studies
- School of Emerging Media and Technology
- School of Journalism and Mass Communication
- School of Information
- School of Visual Communication Design

## Undergraduate Programs

- Advertising - B.S.
- Communication Studies - B.A.
- Digital Media Production - B.S.
- Digital Sciences - B.A.
- Emerging Media and Technology - B.S.
- Journalism - B.S.
- Photography - B.F.A.
- Public Relations - B.S.
- Visual Communication Design - B.A.
- Visual Communication Design - B.F.A.

## Minors

- Advertising
- Communication Studies
- Design
- Digital Media Production
- Fashion Media
- Global Communication

- Health Communication
- Information Design
- Interpersonal Communication
- Media Advocacy
- Media Literacy
- Organizational Communication
- Photography
- Photojournalism
- Public Communication
- Public Relations
- User Experience Design
- Visual Journalism
- Web Development

- D'Enbeau, Suzy M. (2013), Associate Professor, Ph.D., Purdue University, 2009
- Dillon, Patrick J. (2016), Assistant Professor
- Egbert-Scheibelhoffer, Nichole L. (2000), Professor, Ph.D., University of Georgia, 2000
- Goodall, Catherine E. (2009), Associate Professor, Ph.D., The Ohio State University, 2009
- Graham, Elizabeth E. (2016), Professor & School Director, Ph.D., Kent State University, 1987
- Haridakis, Paul M. (1996), Professor, Ph.D., Kent State University, 2000
- Hollenbaugh, Erin E. (2003), Associate Professor, Ph.D., Kent State University, 2008
- Kaptan, Yesim (2016), Assistant Professor, Ph.D., Indiana University, 2010
- Lin, Mei-Chen (2003), Associate Professor, Ph.D., University of Kansas, 2003
- McCullough, Jennifer L. (2010), Assistant Professor, Ph.D., The Ohio State University, 2007
- Meyer, Janet R. (1998), Associate Professor, Ph.D., University of Michigan, 1989
- Ponder, James D. (2007), Assistant Professor, Ph.D., Kent State University, 2012
- Sharma, Rekha (2000), Associate Professor, M.A., Kent State University, 2004
- Silva, David E. (2019), Assistant Professor
- Sommer, Paul (2015), Assistant Professor, Ph.D., Texas A&M University, Main Campus, 2016
- Toumi, Ikram (2017), Assistant Professor, Ph.D., University of Texas at Austin, 2016
- Waite, Lisa A. (1991), Senior Lecturer, M.A., University of Akron, 1985
- Workneh, Tewodros (2016), Assistant Professor, Ph.D., University of Oregon, 2014

## Graduate Programs

- Communication and Information - Ph.D.
- Communication Studies - M.A.
- Digital Sciences - M.D.S.
- Health Informatics - M.S.
- Journalism and Mass Communication - M.A.
- Knowledge Management - M.S.
- Library and Information Science - M.L.I.S.
- School Library Media K-12 - M.L.I.S.
- School Library Media Licensure (Non-Degree)
- User Experience Design - M.S.
- Visual Communication Design - M.A.
- Visual Communication Design - M.F.A.

## Certificates

### Graduate Certificates

- Enterprise Architecture
- Health Informatics
- Web-Enabled E-Learning Knowledge Management

## College of Communication and Information Faculty

### School of Communication Studies Faculty

- Bacue, Aaron E. (2015), Associate Lecturer, M.A., University of Delaware, 1999
- Beam, Michael A. (2014), Associate Professor, Ph.D., The Ohio State University, 2012
- Bentley, Laurie S. (1994), Associate Lecturer, M.A., Kent State University, 1996
- Bihn-Coss, Ginger F. (2014), Assistant Professor, Ph.D., Bowling Green State University, 2003
- Cai, Bei (2002), Associate Professor
- Child, Jeffrey T. (2007), Professor, Ph.D., North Dakota State University, 2007
- Choi, Mina (2019), Assistant Professor, Ph.D., University of Wisconsin, Milwaukee, 2014
- Compton, Cristin (2017), Assistant Professor, Ph.D., University of Missouri-Columbia, 2016

### School of Information Faculty

- Albright, Kendra S. , Professor & School Director
- Boon, Belinda (2006), Associate Professor, Ph.D., University of Texas, Austin, 2006
- Campana, Kathleen (2017), Assistant Professor, Ph.D., University of Washington, 2018
- Gracy, Karen (2007), Associate Professor, Ph.D., University of California, Los Angeles, 2001
- Hajibayova, Lala (2014), Assistant Professor, Ph.D., Indiana University, Bloomington, 2014
- Harper, Sarah M. (2001), Professor, Ph.D., Kent State University, 2003
- Hegmann, Elda (2011), Assistant Professor, Ph.D., Laval University, 2003
- Hudak, Christine A. (2012), Professor, Ph.D., Cleveland State University, 1998
- Jakli, Antal I. (1989), Professor, Ph.D., University of Budapest, 1986
- Martens, Marianne (2012), Associate Professor, Ph.D., Rutgers, The State University of New Jersey, 2012
- Matteson, Miriam L. (2012), Associate Professor & Director, Ph.D., University of Maryland, 2009
- Meehan, Rebecca A. (2012), Associate Professor, Ph.D., Case Western Reserve University, 1997

- Nichols, Mary A. (1996), Senior Lecturer, M.L.S., Kent State University, 1993
- Robins, David B. (2004), Associate Professor, Ph.D., University of North Texas, 1998
- Salaba, Athena (1993), Professor, Ph.D., University of Wisconsin, Madison, 2005
- Sherman, Paul J. (2013), Assistant Professor, Ph.D., University of Texas at Austin, 1997
- Smith, Catherine L. (2010), Associate Professor, Ph.D., Rutgers, The State University of New Jersey, 2010
- Soyka, Heather (2017), Assistant Professor
- Zeng, Marcia L. (1992), Professor, Ph.D., University of Pittsburgh, 1992
- Zhang, Yin (1999), Professor, Ph.D., University of Illinois, Chicago, 1999
- Smith, Stephanie D. (2012), Associate Professor, M.P.A., Harvard College, 1994
- Tang, Tang (2018), Professor
- Wardell, Wendy A. (2012), Associate Lecturer, B.S., University of Akron, 1991
- Wasbotten, Thor L. (2012), Professor, M.S., University of Oregon, 1995
- White, Dana (2018), Assistant Professor, M.F.A., University of California, Riverside, 2015
- Williams, Traci E. (1995), Senior Lecturer, L.S.M., Kent State University, 2005
- York, Chance A. (2014), Assistant Professor, Ph.D., Louisiana State University-Baton Rouge, 2014
- York, Chance (2014), Assistant Professor, Ph.D., Louisiana St University A&M, Baton Rouge, 2014
- Zake, Susan K. (2007), Associate Professor, M.A., Kent State University, 2011

### **School of Journalism and Mass Communication Faculty**

- Armour, Luke L. (2012), Associate Professor, M.A., University of Akron, 2006
- Bailey, Evan B. (2003), Associate Professor, M.A., Kent State University, 2009
- Bowen, Candace P. (1995), Professor, M.A., Northern Illinois University, 1980
- Butler-Wall, Karisa (2019), Assistant Professor, Ph.D.
- Coombs, Danielle S. (2007), Professor
- Dworzniak, Gretchen J. (2015), Assistant Professor, Ph.D., Kent State University, 2008
- Ewing, Michele E. (2002), Associate Professor, M.A., Kent State University, 1989
- Foster, David A. (2014), Assistant Professor, M.A., Kent State University, 2014
- Fruit, Jeffrey W. (1998), Professor & Interim Director, M.A., The Ohio State University, 1977
- Goodman, Mark (2008), Professor, J.D., Duke University, 1985
- Hallgren, Scott W. (2016), Assistant Professor
- Hoak, Gretchen J. (2015), Assistant Professor, Ph.D., Kent State University, 2008
- Idsvoog, Karl A. (2004), Associate Professor
- Knoblock, Christopher (2019), Lecturer
- Lambert, Cheryl A. (2016), Assistant Professor
- Leach, Janet C. (2003), Professor, M.A., Kent State University, 2006
- Marino, Jacqueline A. (1990), Professor, M.A., The Johns Hopkins University, 2002
- McKenney, Mitchell J. (2001), Associate Professor, M.B.A., Kent State University, 2008
- Moore, Stefanie A. (2001), Professor, M.S., Kent State University, 2007
- Murray, Gordon J. (1982), Associate Professor, Ph.D., Kent State University, 1998
- Nowitz, Abraham (2019), Assistant Professor
- Roberts, Timothy A. (2003), Associate Lecturer, M.A., Kent State University, 2010
- Rolnick, Rebecca M. (2017), Assistant Professor, M.F.A., University of Southern California, 2000
- Sarver-Coombs, Danielle (2007), Professor, Ph.D., Louisiana State University-Baton Rouge, 2007
- Schultz, Connie, Professional in Residence
- Shelton, Eugene (2001), Professor, M.A., Kent State University, 2004

### **School of Visual Communication Design Faculty**

- Barness, Jessica S. (2012), Associate Professor, M.F.A., University of Minnesota, Twin Cities, 2012
- Bell, Timothy J. (2015), Assistant Professor, M.Arch., Columbia University, 2012
- Coorey, Jillian S. (2010), Associate Professor, M.F.A., University of Illinois at Chicago, 2010
- Goldsmith, Douglas M. (1988), Assistant Professor, M.F.A., Carnegie Mellon University, 1988
- Inderhees, Joan E. (2018), Senior Lecturer, Ph.D., Kent State University, 2018
- Katila, Sanda S. (1990), Associate Professor, M.F.A., Kent State University, 1993
- Kennedy, Jaime D. (2007), Associate Professor, M.F.A., The Ohio State University, 2006
- King, Larrie L. (2012), Assistant Professor, M.F.A., Kent State University, 2014
- McConaughy, Kathleen M. (2018), Lecturer, B.F.A., Kent State University, 1980
- Middleton, David A. (1998), Professor, M.A., Kent State University, 1985
- Mooney, Aoife (2013), Assistant Professor, M.F.A., Reading University, 2010
- O'Grady, Kenneth J. (1997), Professor, M.F.A., Kent State University, 2000
- Peters, Daphne F. (2014), Assistant Professor, B.Arch., Carnegie Mellon University, 2002
- Ransom, Christopher T. (1996), Associate Professor, M.F.A., University of Delaware, 1993
- Renicker, Valora (1994), Professor, M.F.A., Kent State University, 2001
- Rinnert, Gretchen C. (2008), Associate Professor, M.F.A., North Carolina State University at Raleigh, 2008
- Roll, David (2015), Assistant Professor, M.A., Kent State University, 2007



# College of Communication and Information

## Communication and Information (CCI)

### CCI 10095 SPECIAL TOPICS IN COMMUNICATION AND INFORMATION 1-3 Credit Hours

(Repeatable for credit) Interdisciplinary and/or collaborative learning experiences in areas not covered by traditional coursework.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 1-3 lecture

**Grade Mode:** Satisfactory/Unsatisfactory

### CCI 10195 SELECTED TOPICS IN COMMUNICATION AND INFORMATION 1-3 Credit Hours

(Repeatable for credit) Interdisciplinary and-or collaborative learning experiences in areas not covered by traditional coursework.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 1-3 lecture

**Grade Mode:** Standard Letter

### CCI 12001 PHOTOGRAPHY 3 Credit Hours

This is an introductory course intended to provide a basic understanding of the photographic process as visual communication. The course will explore why humans are compelled to capture images and how our visual language has impacted society and culture. Students will learn camera controls, depth of field, composition, exposure, image correction, digital workflow and other topics through a range of photographic assignments. This course will also focus on the history, technology, ethics and art of photography.

**Prerequisite:** None.

**Schedule Type:** Laboratory, Lecture, Combined Lecture and Lab

**Contact Hours:** 2 lecture, 2 lab

**Grade Mode:** Standard Letter

### CCI 20001 INTRODUCTION TO MEDIA ADVOCACY 3 Credit Hours

This course examines how stories are used to create change, a process referred to as story-based strategy. Throughout the semester, students examine how organizers, advocates and social movements use stories and other activation tactics to gain media attention, pierce public apathy, reshape public opinion, and create or resist change. Using academic texts and case studies, students also critically consider how social movements use and interact with the media, the role of media in covering social movements, the benefits and risks of media coverage and the evolving line between journalism and advocacy. Students have the opportunity to analyze social change stories of their choosing, develop and present a substantive social change case study, engage in direct action for causes that matter to them and engage in collective action tactics related to a social change campaign.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

### CCI 40095 SPECIAL TOPICS IN COMMUNICATION AND INFORMATION 1-3 Credit Hours

(Repeatable for credit) (Slashed with CCI 50095) Interdisciplinary and/or collaborative learning experiences in areas not covered by traditional coursework.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 1-3 lecture

**Grade Mode:** Standard Letter-IP

### CCI 45091 SEMINAR IN MEDIA AND MOVEMENTS (ELR) 3 Credit Hours

(Slashed with CCI 55091) The College of Communication and Information's (CCI's) Media and Movements Seminar is a high-impact, immersive educational experience that involves problem-based learning about a significant and highly relevant social issue. The course enables CCI undergraduate and graduate students, as well as students from other Kent State departments and colleges, to apply their communication, research, multimedia storytelling, design, advocacy, data, information and knowledge management skills to help clients and communities affected by the social issue. The seminar relies heavily upon experiential learning and field research and requires students to work independently and as part of interdisciplinary teams to develop public awareness and advocacy campaigns.

**Prerequisite:** Sophomore standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Experiential Learning Requirement

### CCI 46001 RESPONSIVE WEB DESIGN 3 Credit Hours

(Slashed with CCI 56001) Students learn the fundamentals for designing and developing a responsive website design system using HTML, CSS and JavaScript, while also applying research, content strategy and testing techniques. Materials and information are delivered through lectures, demos, hands-on exercises and a semester-long project.

**Prerequisite:** VCD 21000.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

### CCI 46002 ADVANCED RESPONSIVE WEB DESIGN 3 Credit Hours

(Slashed with CCI 56002) Advanced Responsive Web Design takes the key principles covered in the Responsive Web Design course (or equivalent courses) and expands upon them within the framework of a client project. Students will design and develop a responsive website in a content management system (CMS) that can be edited by a client. Teams will be assigned responsibility to complete the project throughout the semester using advanced web design tools in the areas of user experience, visual design, web development and content strategy. Students also interact with a real client throughout the semester, gaining hands-on experience with deadlines, feedback and agile project management.

**Prerequisite:** CCI 46001; and special approval.

**Schedule Type:** Laboratory, Lecture, Combined Lecture and Lab

**Contact Hours:** 2 lecture, 2 lab

**Grade Mode:** Standard Letter

**CCI 50095 SPECIAL TOPICS IN COMMUNICATION AND INFORMATION  
1-3 Credit Hours**

(Repeatable for credit) (Cross-listed with CCI 40095 ) Interdisciplinary and/or collaborative learning experiences in areas not covered by traditional coursework.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 1-3 lecture

**Grade Mode:** Standard Letter-IP

**CCI 55091 SEMINAR IN MEDIA AND MOVEMENTS 3 Credit Hours**

(Slashed with CCI 45091) The College of Communication and Information's (CCI's) Media and Movements Seminar is a high-impact, immersive educational experience that involves problem-based learning about a significant and highly relevant social issue. The course enables CCI undergraduate and graduate students, as well as students from other Kent State departments and colleges, to apply their communication, research, multimedia storytelling, design, advocacy, data, information and knowledge management skills to help clients and communities affected by the social issue. The seminar relies heavily upon experiential learning and field research and requires students to work independently and as part of interdisciplinary teams to develop public awareness and advocacy campaigns.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CCI 56001 RESPONSIVE WEB DESIGN 3 Credit Hours**

(Slashed with CCI 46001) Students learn the fundamentals for designing and developing a responsive website design system using HTML, CSS and JavaScript, while also applying research, content strategy and testing techniques. Materials and information are delivered through lectures, demos, hands-on exercises and a semester-long project.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CCI 56002 ADVANCED RESPONSIVE WEB DESIGN 3 Credit Hours**

(Slashed with CCI 46002) Advanced Responsive Web Design takes the key principles covered in the Responsive Web Design course (or equivalent courses) and expands upon them within the framework of a client project. Students will design and develop a responsive website in a content management system (CMS) that can be edited by a client. Students will lead separate teams of undergraduate students who are assigned responsibility to complete the project throughout the semester using advanced web design tools in the areas of user experience, visual design, web development and content strategy. Students also interact with a real client throughout the semester, gaining hands-on experience with deadlines, feedback and agile project management.

**Prerequisite:** CCI 56001; graduate standing; and special approval.

**Schedule Type:** Laboratory, Lecture, Combined Lecture and Lab

**Contact Hours:** 2 lecture, 2 lab

**Grade Mode:** Standard Letter

**CCI 60000 FOUNDATIONS OF COMMUNICATION AND INFORMATION  
INQUIRY 3 Credit Hours**

(Slashed with CCI 80000) Introduction to epistemological foundations of the Communication and Information (CCI) disciplines, theory construction and academic writing for the CCI PhD.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CCI 60001 FOUNDATIONS OF RESEARCH AND SCHOLARSHIP IN  
COMMUNICATION AND INFORMATION 3 Credit Hours**

(Slashed with CCI 80001) Overview of the process of engaging with and presenting empirical research in communication and information, emphasizing the importance of clear conceptualization, meaningful engagement with literature, and effective presentation of findings.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CCI 60095 SPECIAL TOPICS IN COMMUNICATION AND INFORMATION  
1-3 Credit Hours**

(Repeatable for credit) (Slashed with CCI 80095) Interdisciplinary and/or collaborative learning experiences in areas not covered by traditional coursework.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 1-3 lecture

**Grade Mode:** Standard Letter-IP

**CCI 60097 COLLOQUIUM IN COMMUNICATION AND INFORMATION  
1 Credit Hour**

(Slashed with CCI 80097) The colloquium course provides College of Communication & Information (CCI) master's level students exposure to cutting edge research, professional socialization to the doctoral program, and a platform to present their own research and ideas.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 1 lecture

**Grade Mode:** Satisfactory/Unsatisfactory

**CCI 61000 QUANTITATIVE RESEARCH METHODS IN COMMUNICATION  
AND INFORMATION 3 Credit Hours**

(Slashed with CCI 81000) This course Investigates quantitative social science methods applicable to the study of communication and information, including survey, content analysis, and experimental approaches. Emphasis is on original and secondary data collection, data analysis, data illustration, and interpreting and reporting research results for scholarly and lay audiences.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CCI 80000 FOUNDATIONS OF COMMUNICATION AND INFORMATION  
INQUIRY 3 Credit Hours**

(Slashed with CCI 60000) Introduction to epistemological foundations of the Communication and Information (CCI) disciplines, theory construction and academic writing for the CCI PhD.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CCI 80001 FOUNDATIONS OF RESEARCH AND SCHOLARSHIP IN COMMUNICATION AND INFORMATION 3 Credit Hours**

(Slashed with CCI 60001) Overview of the process of engaging with and presenting empirical research in communication and information, emphasizing the importance of clear conceptualization, meaningful engagement with literature, and effective presentation of findings.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CCI 80094 COLLEGE TEACHING IN COMMUNICATION AND INFORMATION 3 Credit Hours**

Training and investigation of best practices for collegiate instruction: course development, classroom performance, evaluation and reflection, introduction to instructional research.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Seminar

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**CCI 80095 SPECIAL TOPICS IN COMMUNICATION AND INFORMATION 1-3 Credit Hours**

(Repeatable for credit) (Slashed with CCI 80095) Interdisciplinary and/or collaborative learning experiences in areas not covered by traditional coursework.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 1-3 lecture

**Grade Mode:** Standard Letter-IP

**CCI 80096 INDIVIDUAL INVESTIGATION IN COMMUNICATION AND INFORMATION 1-3 Credit Hours**

(Repeatable with the approval of the student's advisor for a maximum of 6 credit hours) Independent study of area or problem to be selected in consultation with doctoral faculty.

**Prerequisite:** Doctoral standing; and special approval.

**Schedule Type:** Individual Investigation

**Contact Hours:** 1-3 other

**Grade Mode:** Standard Letter-IP

**CCI 80097 COLLOQUIUM IN COMMUNICATION AND INFORMATION 1 Credit Hour**

(Slashed with CCI 60097) The colloquium course provides College of Communication & Information (CCI) master's level students exposure to cutting edge research, professional socialization to the doctoral program, and a platform to present their own research and ideas.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Colloquium

**Contact Hours:** 1 lecture

**Grade Mode:** Satisfactory/Unsatisfactory

**CCI 80199 DISSERTATION I 15 Credit Hours**

(Repeatable for credit) Doctoral dissertation for which registration in at least two semesters is required, first of which will be semester in which dissertation work is begun and continuing until the completion of 30 hours.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Dissertation

**Contact Hours:** 15 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**CCI 80299 DISSERTATION II 15 Credit Hours**

(Repeatable for credit) Continuing registration required of doctoral students who have completed the initial 30 hours of dissertation and continuing until all degree requirements are met.

**Prerequisite:** CCI 80199 or COMM 80199; and doctoral standing.

**Schedule Type:** Dissertation

**Contact Hours:** 15 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**CCI 81000 QUANTITATIVE RESEARCH METHODS IN COMMUNICATION AND INFORMATION 3 Credit Hours**

(Slashed with CCI 61000) This course Investigates quantitative social science methods applicable to the study of communication and information, including survey, content analysis, and experimental approaches. Emphasis is on original and secondary data collection, data analysis, data illustration, and interpreting and reporting research results for scholarly and lay audiences.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CCI 85098 RESEARCH IN COMMUNICATION AND INFORMATION 1-15 Credit Hours**

(Repeatable for credit) Research or individual investigation for doctoral students who have not yet passed their candidacy examination. Credits may be applied toward degree if doctoral supervisory committee and CCI College Doctoral Program Policy Committee approve.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Research

**Contact Hours:** 1-15 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

## School of Communication Studies

### Communication Studies (COMM)

**COMM 15000 INTRODUCTION TO HUMAN COMMUNICATION (KADL) 3 Credit Hours**

An inquiry into the nature and function of human communication in interpersonal, group and public contexts.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Kent Core Additional, TAG Communication, Transfer Module Composition

**COMM 20000 FOUNDATIONS OF COMMUNICATION 3 Credit Hours**

The foundations of communication studies course serves as an introduction to the major. Provides an introduction to communication studies faculty, research and the major concentrations of the school; highlights possible careers in communication studies; and introduces possible ways students can supplement curriculum efforts through involvement.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**COMM 20001 INTERPERSONAL COMMUNICATION 3 Credit Hours**

Introduction to human interpersonal communication. Components and structures situations and contexts are described nonevaluative focus with emphasis on informal experience.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** TAG Communication

**COMM 21000 COMMUNICATION GRAMMAR REVIEW 1 Credit Hour**

Designed to increase grammar, punctuation, spelling and syntax skills and proficiency. Students must earn a minimum C grade to fulfill the grammar requirement.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 1 lecture

**Grade Mode:** Standard Letter

**COMM 25863 BUSINESS AND PROFESSIONAL COMMUNICATION 3 Credit Hours**

Fundamentals of public and conference speaking, conducting meetings, electronic presentations, interviewing and interpersonal relations as applied to business and organizational settings.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**COMM 25902 COMMUNICATION THEORY 3 Credit Hours**

Study of the process of human communication. Emphasis on source, message, channel and receiver dimensions of communication. Examination of major theories of communication and social influence.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** TAG Communication

**COMM 26000 CRITICISM OF PUBLIC DISCOURSE (DIVD) (KHUM) 3 Credit Hours**

A critical examination of selected public speeches representing diverse viewpoints on a variety of historic and contemporary issues, emphasizing methods of evaluating public oral communication and the role of speechmaking in free societies.

**Prerequisite:** Sophomore standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Diversity Domestic, Kent Core Humanities, Transfer Module Humanities

**COMM 26001 PUBLIC COMMUNICATION IN SOCIETY 3 Credit Hours**

Examines communication in public settings. Content includes issues in mass media, political communication and political advertising, news, crisis communication, public opinion, and communication in executive, legislative and judicial settings. Students explore the influence of mediated messages via application of mass communication theories and constructs.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**COMM 26501 INTRODUCTION TO HEALTH COMMUNICATION 3 Credit Hours**

Introduction to the roles of communication in health, health and risk behavior, health care, and health promotion, including interpersonal, organizational and media contexts.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**COMM 30000 COMMUNICATION RESEARCH METHODS 3 Credit Hours**

Introduction to qualitative and quantitative research methods in communication. Students should complete this course early in their program of study.

**Prerequisite:** Minimum 2.000 overall GPA.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**COMM 34000 COMMUNICATION ETHICS (WIC) 3 Credit Hours**

This course focuses on the ethics of communication activities and practices. We will explore ethical frameworks, principles, and guidelines for help discerning what rights and responsibilities, if any, communicators have to themselves, to their families and communities, and to the broader global community.

**Prerequisite:** Minimum C grade in COMM 21000 or ENG 31001; and minimum 2.000 overall GPA.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Writing Intensive Course

**COMM 35464 ARGUMENTATION AND PERSUASIVE COMMUNICATION 3 Credit Hours**

Students will be introduced to principles and practices of effective argumentation and persuasive communication. Through exposure to rhetorical and social scientific theories, students will engage in research to develop argumentative cases and assess persuasive messaging strategies in mediated contexts. The course emphasizes processes of reasoning, the nature and use of evidence, recognition of common fallacies, media and information literacy, and generation and construction of valid and ethical arguments. Assignments will allow students to practice argumentation and persuasive communication as well as develop critical thinking skills needed to evaluate arguments and persuasive messages.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**COMM 35600 COMMUNICATION IN SMALL GROUPS AND TEAMS 3 Credit Hours**

Focuses on the application and practice of group communication skills and techniques applied to goal-oriented small group situations. Course explores communication theory and research about small groups and teams, relating in group and teams, managing conflict in groups and teams, leadership in groups and teams and problem-solving in groups and teams.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** TAG Communication

**COMM 35852 INTERCULTURAL COMMUNICATION (DIVG) 3 Credit Hours**

Theory and application of communication between people of different cultures and different national systems.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Diversity Global

**COMM 35860 INTERVIEWING 3 Credit Hours**

Techniques, principles and practical skills for interviews most likely to occur in business environments; job searches and selection interviews, information-gathering interviews, performance appraisals, counseling interviews and persuasive interviews.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**COMM 35864 ORGANIZATIONAL COMMUNICATION 3 Credit Hours**

Application of communication theory to organizational settings. Exploration of communication structures processes and methods in organizations.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**COMM 35912 GENDER AND COMMUNICATION (DIVD) 3 Credit Hours**

Explores how gender is socially constructed in everyday communicative interactions and institutional contexts, including close relationships, organizations, school settings and the media. In the process, this course uncovers how the social construction of gender perpetuates power imbalances in society.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Diversity Domestic

**COMM 36501 COMMUNICATION IN HEALTH CARE 3 Credit Hours**

Examination of the dynamics of communication in health care settings, including provider-patient interaction, using communication theory, research and health advocacy skills across a variety of health care contexts.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**COMM 36505 COMMUNICATION, AGING AND CULTURE 3 Credit Hours**

Examination of the roles of aging and culture on human communication.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**COMM 37091 SEMINAR IN COMMUNICATION AND POPULAR CULTURE 3 Credit Hours**

(Repeatable twice for credit) Popular culture is driven by communication. The messages contained in that communication can be both prescriptive and descriptive and can reveal much about people's culture, attitudes, fears, values and perceptions of reality. Course will focus on messages contained in various popular culture artifacts including, but not limited to film, television, internet, music and literature.

**Prerequisite:** None.

**Schedule Type:** Seminar

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**COMM 40001 ADVANCED INTERPERSONAL COMMUNICATION 3 Credit Hours**

Advanced treatment of interpersonal communication theory and research. Interpersonal principles are applied to group and organizational contexts.

**Prerequisite:** COMM 20001.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**COMM 41000 SPORTS COMMUNICATION 3 Credit Hours**

An examination of the inter-relationship between sports and communication in today's society. Students discuss and examine sports through communication lenses (groups, interpersonal, media/mediated and organizational).

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**COMM 42000 MEDIA, WAR AND PROPAGANDA 3 Credit Hours**

Examines the influence of TV, movies, and media images of war, the war effort and portrayals of enemies, protesters and anti-war groups on communication research, including mass communication and persuasion.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**COMM 43000 COMMUNICATION TECHNOLOGY AND HUMAN INTERACTION 3 Credit Hours**

Course aims to help students develop a critical understanding of diverse newer media and how they are used and affect human interaction. In achieving this goal, students are expected to learn how newer media are different from and similar to face-to-face communication or traditional mass media, newer media's social and psychological effects on human interactions, and theoretical frameworks explaining these media.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter



**COMM 45006 MEDIA USE AND EFFECTS 3 Credit Hours**

The course examines the ways in which communication scholars have conceptualized and analyzed media processes, uses and effects. We explore such issues as media portrayals, news coverage, political campaigns, sex and violence in the media, media entertainment, children and television, and newer communication technologies.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter-IP

**COMM 45007 FREEDOM OF SPEECH 3 Credit Hours**

(Slashed with COMM 55007) Examines historic and contemporary instances relating to freedom of speech; study of limits, rights, responsibilities and socio-legal-rhetorical issues.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**COMM 45091 SEMINAR IN COMMUNICATION STUDIES 1-4 Credit Hours**

(Repeatable for a maximum of 9 credit hours) Examination of selected communication topics/areas and related research.

**Prerequisite:** None.

**Schedule Type:** Seminar

**Contact Hours:** 1-4 other

**Grade Mode:** Standard Letter

**COMM 45092 INTERNSHIP IN COMMUNICATION STUDIES (ELR) 3-6 Credit Hours**

(Repeatable for credit) A formal, cooperative field experience with a designated organization or agency as designed by the students and the internship coordinator.

**Prerequisite:** Minimum C grade in COMM 21000 or ENG 31001; and COMM 45902; and EMAT 10310; and minimum 2.000 overall GPA; and senior standing; and special approval.

**Schedule Type:** Practical Experience

**Contact Hours:** 9-18 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**Attributes:** Experiential Learning Requirement

**COMM 45093 VARIABLE TITLE WORKSHOP IN COMMUNICATION 1-5 Credit Hours**

(Repeatable for credit) Content varies per workshop course. No more than three credits may be counted as part of the upper-division credits required in the Communication Studies major.

**Prerequisite:** None.

**Schedule Type:** Workshop

**Contact Hours:** 1-5 other

**Grade Mode:** Satisfactory/Unsatisfactory

**COMM 45095 SPECIAL TOPICS IN COMMUNICATION STUDIES 1-6 Credit Hours**

(Repeatable for credit) (Slashed with COMM 55095 and COMM 75095) Offered when unusual resources permit a topic different from existing courses. Topic will be announced when scheduled.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 1-6 lecture

**Grade Mode:** Satisfactory/Unsatisfactory

**COMM 45196 INDEPENDENT STUDY: COMMUNICATION STUDIES 1-6 Credit Hours**

(Repeatable for a maximum of 6 credit hours) Readings and/or research on problems approved by undergraduate coordinator in consultation with student's adviser and faculty project director.

**Prerequisite:** Minimum C grade in COMM 20000; minimum 2.000 overall GPA; and junior standing; and special approval.

**Schedule Type:** Individual Investigation

**Contact Hours:** 6 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**COMM 45459 COMMUNICATION AND CONFLICT 3 Credit Hours**

(Slashed with COMM 55459) Examination of issues related to managing conflict in communication. Critique and synthesis of conceptual approaches and research pertaining to conflict in relational and workplace communication settings.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**COMM 45660 POLITICAL COMMUNICATION 3 Credit Hours**

This course will provide an overview of the vast array of research concerning the role of communication in the political process. Considerations of political communication will include the history of political communication, the role of media in politics, the analysis of political messages, contemporary campaigns in the role of communication in their successes and failures.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**COMM 45678 SOCIAL MEDIA AND GLOBALIZATION 3 Credit Hours**

The course introduces students to social media and how they operate in a globalized context. Through the relevant literature, students will be able to use key theoretical tools to understand and critically analyze implications of globalization and social media on issues related to communication, social inequalities, citizenship, and youth cultures. The students will navigate the relationship between globalization and social media processes through practical examples including media texts, audiovisual material, social media content, etc. In class, the students will be expected to fully engage in discussions and group activities designed to emphasize their individual, professional, and academic growth.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**COMM 45684 COMMUNICATION TRENDS, RISKS AND WARNINGS 3 Credit Hours**

Recognizing and exploring the role of communicators in building new and deeper public understanding of critical, pervasive, and enduring human problems across conventional borders.

**Prerequisite:** None.

**Schedule Type:** Seminar

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**COMM 45756 INTERNATIONAL COMMUNICATION 3 Credit Hours**

International Communication (IC) maps out global communication systems from contemporary and historical perspectives, particularly as they relate to issues of social justice. The course deals with four overarching themes: [a] ideologies, theories and foundation; [b] commodities, markets and industries; [c] audiences, identities, and culture; and [d] ICTs, networks, and activism. Specifically, IC examines international information flows, comparative media systems, media ownership structures, commons, international reporting, global advertising, modes of propaganda, televangelism, mediated sports, digital surveillance, and electronic waste, among others. IC offers the opportunity to critically examine our posture, individually and collectively, in the production, distribution and consumption of content, and how this translates into the construction of images and identities of ourselves and global publics.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**COMM 45760 MEDIA, NATIONALISM AND GLOBALIZATION 3 Credit Hours**

Media, Nationalism and Globalization examines connections and tensions between the forces of nationalism and the forces of globalization and explores the role of the media and consumer culture in the current context of capitalism.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**COMM 45766 COMMUNICATION IN A GLOBAL SOCIETY 3 Credit Hours**

Offers a broad-based treatment of a variety of topics in our 'globalizing' world from the standpoint of communication. Considers the importance of communication on multiple levels of the international landscape, ranging from the very ways globalization is defined and framed to new communication media and networks, to campaigns and debates about global issues, and including the transformation of organizational and institutional relationships as well as local-to-global interactions.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**COMM 45776 COMMUNICATION AND TERRORISM 3 Credit Hours**

This course examines many facets of terrorism, including its historic roots and its social, political, ethnic, geographic, moral and spiritual causes. Students will be challenged to understand basic definitions of terrorism and think beyond conventional assumptions about terrorist organizations, especially assumptions derived from mass media, popular culture and Western biases. We will examine two central premises: first, that communication – spoken/written, traditional/nontraditional, public/private, visual/symbolic – is both a tool and the goal of organized terrorism; and second, that terrorist organizations use brand-positioning strategies we often associate with commercial entities. Students will be required to think deeply, critically and objectively about the narratives, messages, images and symbolism used by past and present-day terrorist movements.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**COMM 45807 HIGH IMPACT PROFESSIONAL SPEAKING 3 Credit Hours**

Principles and practices of effective communication in a variety of professional contexts. Emphasis on professional presentation skills development.

**Prerequisite:** COMM 15000; and junior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**COMM 45865 ORGANIZATIONAL COMMUNICATION TRAINING AND DEVELOPMENT 3 Credit Hours**

Theory and application of diagnosing communication problems in an organization and the intervention process.

**Prerequisite:** COMM 35864.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**COMM 45902 COMMUNICATION AND INFLUENCE (WIC) 3 Credit Hours**

Explores theories and strategies of social influence in contemporary society. Students discuss and critique influential communication practices such as interpersonal persuasion, product and services advertisements, social movements and political messages.

**Prerequisite:** Minimum C grade in COMM 21000 or ENG 31001; and minimum 2.000 overall GPA.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Writing Intensive Course

**COMM 45903 COMMUNICATION CAMPAIGNS (ELR) 3 Credit Hours**

The primary purpose of this course is to enable students to understand the fundamentals of how persuasive communication campaigns are developed, implemented, and evaluated.

**Prerequisite:** COMM 45902.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Experiential Learning Requirement

**COMM 45957 LANGUAGE, MEANING AND COGNITION 3 Credit Hours**

Overview of language use in social contexts, including basic components of language production; semantics; pragmatics (speech acts); the production and comprehension of sentences; message production; message comprehension; language and society (conversational rules; coherence); individual differences in language use (adaptive ability, gender differences); powerful vs. powerless speech; and intercultural considerations.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**COMM 45959 NONVERBAL COMMUNICATION 3 Credit Hours**

Survey of theory and research in nonverbal codes of communication through readings, field study and classroom interaction.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**COMM 46091 SENIOR SEMINAR (ELR) 3 Credit Hours**

(Repeatable for credit) Senior Seminar is an advanced level course that features current topics in communication and is driven by problem-analysis and a search for solutions. In-depth exploration and analysis of a communication issue is an opportunity for students to synthesize coursework and communication experiences into transferable skills and applications. A summative experience, this course may result in a research project or paper, portfolio, multimedia presentation, community-based initiative, and or a public presentation. Topics vary based on faculty expertise and research interests. The Senior Seminar course is applied and experiential.

**Prerequisite:** Minimum C grade in COMM 20000; and minimum 2.000 overall GPA; and senior standing.

**Schedule Type:** Seminar

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**Attributes:** Experiential Learning Requirement

**COMM 46503 HEALTH COMMUNICATION AND MEDIA 3 Credit Hours**

Investigation of health messages in traditional and new media, including both incidental communication and planned campaigns.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**COMM 46507 EVERYDAY INTERPERSONAL COMMUNICATION AND HEALTH 3 Credit Hours**

Examination of the roles of everyday interpersonal communication in physical and psychosocial health and risk behavior.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**COMM 46601 RELATIONAL COMMUNICATION 3 Credit Hours**

Provides an exploration of theory and research about the interactions among individuals in relationships. Subtopics of the course include communication and the development, maintenance and dissolution of personal relationships; relationships across the life span; individual differences in relationships and relational processes, qualities, and outcomes.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**COMM 46605 COMMUNICATION ACROSS THE LIFESPAN (DIVD) 3 Credit Hours**

Explores common life stages (childhood, youth, midlife, and old age) and the transitioning of communication within and between these different stages of development. Sub-topics include life span communication and: family, friendships, social and gender role development, interpersonal conflict management, and the use of varied communication technologies facilitating human interaction across the life span.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Diversity Domestic

**COMM 46608 FAMILY COMMUNICATION 3 Credit Hours**

Examines the interactions among individuals in families. Sub-topics of the course include family communication and storytelling, identity, rules, conflict, intimacy, stress, external influences on family communication, and family communication and the media.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**COMM 55007 FREEDOM OF SPEECH 3 Credit Hours**

(Slashed with COMM 45007) Examines historic and contemporary instances relating to freedom of speech; study of limits, rights, responsibilities and socio-legal-rhetorical issues.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**COMM 55093 VARIABLE TITLE WORKSHOP IN COMMUNICATION STUDIES 1-6 Credit Hours**

(Repeatable for credit) Variable topic workshop in communication studies.

**Prerequisite:** Graduate standing.

**Schedule Type:** Workshop

**Contact Hours:** 1-6 other

**Grade Mode:** Satisfactory/Unsatisfactory

**COMM 55095 SPECIAL TOPICS 1-4 Credit Hours**

(Repeatable for credit) (Slashed with COMM 45095 and COMM 75095) Offered when resources permit a topic different from existing courses. Topic will be announced when scheduled.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 1-4 lecture

**Grade Mode:** Standard Letter

**COMM 55459 COMMUNICATION AND CONFLICT 3 Credit Hours**

(Slashed with COMM 45459) Examination of issues related to managing conflict in communication. Critique and synthesis of conceptual approaches and research pertaining to conflict in interpersonal, organizational and public communication settings.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**COMM 55766 COMMUNICATION IN A GLOBAL SOCIETY 3 Credit Hours**

(Slashed with COMM 45766) Offers a broad-based treatment of a variety of topics in our 'globalizing' world from the standpoint of communication. Considers the importance of communication on multiple levels of the international landscape, ranging from the very ways globalization is defined and framed to new communication media and networks, to campaigns and debates about global issues, and including the transformation of organizational and institutional relationships as well as local-to-global interactions.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**COMM 60199 THESIS I 2-6 Credit Hours**

Thesis student must register for a total of 6 hours, 2 to 6 hours in a single semester or distributed over several semesters if desired.

**Prerequisite:** Graduate standing.

**Schedule Type:** Masters Thesis

**Contact Hours:** 2-6 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**COMM 60299 THESIS II 2 Credit Hours**

Thesis students must continue registration each semester until all degree requirements are met.

**Prerequisite:** COMM 60199; and graduate standing.

**Schedule Type:** Masters Thesis

**Contact Hours:** 2 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**COMM 61198 MASTERS PROJECT IN COMMUNICATION STUDIES 3 Credit Hours**

One of the non-thesis options for graduation. Students propose a theory-driven applied research project on a communicative phenomenon or issue. The final written paper is evaluated by the students' academic advisor and the Graduate Coordinator to deem satisfactory for graduation.

**Prerequisite:** COMM 65000 and COMM 65020 and COMM 65652.

**Schedule Type:** Research

**Contact Hours:** 3 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**COMM 64092 MASTERS INTERNSHIP IN COMMUNICATION STUDIES 3 Credit Hours**

(Repeatable for credit) One of the non-thesis options for graduation. Students choose and secure an internship position with a designated organization or agency that requires the student to utilize communication skills and knowledge. Students complete 135 hours of internship. The employer, the academic advisor, and the Graduate Coordinator evaluate the student's overall performance. The advisor and the Graduate Coordinator determine whether the student complete the requirements.

**Prerequisite:** COMM 65000 and COMM 65020 and COMM 65652; and graduate standing; and special approval.

**Schedule Type:** Practical Experience

**Contact Hours:** 3 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**COMM 65000 FOUNDATIONS OF COMMUNICATION INQUIRY 3 Credit Hours**

(Slashed with COMM 75000) Philosophy of science, epistemological and theory construction principles which are the foundation of inquiry into the process of communication.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**COMM 65020 QUANTITATIVE RESEARCH METHODS IN COMMUNICATION 3 Credit Hours**

(Slashed with COMM 75020) An examination of basic quantitative social scientific research methods and procedures for the study of communication.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**COMM 65040 QUALITATIVE RESEARCH METHODS IN COMMUNICATION 3 Credit Hours**

Exploration of qualitative methods in human communication research. Focus on the nature of qualitative data participant observation, and archival strategies of data collection and interpretive and interactionist approaches to data analysis.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**COMM 65060 COMMUNICATION MEASUREMENT AND ANALYSIS 3 Credit Hours**

(Slashed with COMM 75060) A survey of self-report, observational and psychological instruments used in communication research. Uses of the computer in analyzing data obtained in communication research.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**COMM 65091 SEMINAR IN PERSUASION 3,4 Credit Hours**

(Repeatable for credit) (Slashed with COMM 75091) Examination of selected areas of persuasion research. Emphasis on synthesizing research results and formulating explanatory models of persuasive behavior.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Seminar

**Contact Hours:** 3-4 other

**Grade Mode:** Standard Letter

**COMM 65093 VARIABLE TITLE WORKSHOP IN COMMUNICATION 1-6 Credit Hours**

(Repeatable for credit) Variable topic workshop in communication studies.

**Prerequisite:** Graduate standing.

**Schedule Type:** Workshop

**Contact Hours:** 1-6 other

**Grade Mode:** Satisfactory/Unsatisfactory

**COMM 65096 INDIVIDUAL INVESTIGATION 1-6 Credit Hours**

(Repeatable for a maximum of 6 credit hours) (Slashed with COMM 75096) Independent study of area or problem to be selected in consultation with graduate staff.

**Prerequisite:** Graduate standing.

**Schedule Type:** Individual Investigation

**Contact Hours:** 1-6 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**COMM 65098 RESEARCH 1-15 Credit Hours**

(Repeatable for credit) Research or individual investigation for master's level graduate students. Credits may be applied toward meeting degree requirements if school approves.

**Prerequisite:** Graduate standing.

**Schedule Type:** Research

**Contact Hours:** 1-15 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**COMM 65591 SEMINAR IN SMALL GROUP COMMUNICATION 3,4 Credit Hours**

(Repeatable for credit) (Slashed with COMM 75591) Research theories and findings in small group communication.

**Prerequisite:** Graduate standing.

**Schedule Type:** Seminar

**Contact Hours:** 3-4 other

**Grade Mode:** Standard Letter



**COMM 65652 THEORIES OF COMMUNICATION 3 Credit Hours**  
(Slashed with COMM 75652) Introduction to approaches in the study of human communication. Focuses on differing views of interaction from theory building and research-generation perspective.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**COMM 65660 POLITICAL COMMUNICATION 3 Credit Hours**  
(Slashed with COMM 75660) (Crosslisted with JMC 65660) An examination of political communication theory and research. Content includes approaches to political communication, role of the media in politics and analysis of political messages.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**COMM 65661 COMMUNICATION IN AN INFORMATION SOCIETY 3 Credit Hours**

(Slashed with COMM 75661) Examines how the development and use of newer communication technologies have influenced human communication. Considers the evolution, social and psychological impact, and culture of newer communication technologies such as the Internet, and how research adapts to these newer media.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**COMM 65662 MASS MEDIA EFFECTS 3 Credit Hours**

(Slashed with COMM 75662) Examines perspectives on media effects, the impact media have on individuals and societies, and how individual, societal and communication elements influence media uses and effects. Explores issues such as media portrayals, campaigns, violence and children and the media.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**COMM 65665 PERSONAL AND MEDIATED COMMUNICATION 3 Credit Hours**

(Slashed with COMM 75665) Examination of the interface of interpersonal and mediated communication in everyday life. Includes topics such as parasocial interaction, talk radio, TV co-viewing, cell phones, teleconferencing, computer-mediated relationships and media portrayals.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**COMM 65670 INTERPERSONAL COMMUNICATION 3 Credit Hours**

(Slashed with COMM 75670) Survey of recent theoretical developments and research in interpersonal communication. Topics include relationship development, interaction, interpersonal traits, compliance, conversational analysis and research methods.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**COMM 65673 FAMILY COMMUNICATION 3 Credit Hours**

(Slashed with COMM 85673) Family Communication examines the study of theory and research about the interactions among individuals in families. The course also examines how families interact with external entities. Finally, the course explores health communication, media uses or new communication technologies and work-life balance issues from a family communication perspective.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**COMM 65675 COMMUNICATION, UNCERTAINTY AND PRIVACY MANAGEMENT 3 Credit Hours**

(Slashed with COMM 85675) Communication, uncertainty, and the management of private information examines theory and research about disclosure and uncertainty issues in communication in a variety of contexts. Course content examines disclosure and uncertainty management applications in relational contexts, health contexts, organizational contexts, and contexts involving human interaction occurring through technology.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**COMM 65677 RELATIONAL COMMUNICATION 3 Credit Hours**

(Slashed with COMM 85677) Relational communication provides an exploration of theory and research about the interactions among individuals in personal relationships. Subtopics of the course include communication and the development, maintenance, and dissolution of personal relationships, relationships across the life span, individual differences in relationships and relational processes, qualities and outcomes.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**COMM 65679 COMMUNICATION ACROSS THE LIFESPAN 3 Credit Hours**

(Slashed with COMM 85679) Overview of research examining communication across the lifespan, including issues related to communication and cognition, communicative uses of language, communication in close relationships and differences in media uses and effects.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**COMM 65680 INTERCULTURAL/INTERNATIONAL COMMUNICATION 3 Credit Hours**

Examination of theoretical perspectives, research issues and the rhetorical analyses of intercultural and international communication.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter



**COMM 65683 INTERGROUP COMMUNICATION 3 Credit Hours**

(Slashed with COMM 85683) Overview of theory and research of communication between groups of individuals, including issues of discrimination, language, identity, social status, religion and demographics.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**COMM 65684 COMMUNICATION AND TRANSNATIONAL TREND ANALYSIS 3 Credit Hours**

Recognizes and explores the role of communicators in building new and deeper public understanding of critical, pervasive and enduring human problems across conventional borders.

**Prerequisite:** Graduate standing.

**Schedule Type:** Seminar

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**COMM 65685 COMMUNICATION AND COGNITION 3 Credit Hours**

(Slashed with COMM 85685) Application of cognitive theory and research findings to understanding and explaining message production, interpersonal communication, individual differences in adaptive ability, persuasion, political communication, media processing and media effects.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**COMM 65766 COMMUNICATION IN A GLOBAL SOCIETY 3 Credit Hours**

Overview of, analysis of, and critical reflection on topics and issues related to globalization, largely from a communication perspective yet drawing from other disciplines, and including topics such as framing and narratives of globalization and fragmentation, images of national and 'civilizational' identity, discourses of marketization and consumerism, organizational communication dynamics of 'the anti-globalization movement' and 'globalization from below,' definitions and frameworks of security, symbols of war and peace, debates over corporate social responsibility, frames of environmental sustainability, the roles of new media in alternative organizational and institutional formation, and understanding global problems in terms of communication networks. Contributes to the core curriculum for the global communication concentration in the MA program in COMM. Open to PhD students in CCI, plus other masters students within CCI.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**COMM 65794 TEACHING OF COLLEGE COMMUNICATION 3 Credit Hours**

(Repeatable for credit) (Slashed with COMM 75794) Training and experience in college teaching. Maximum of three hours applicable toward master's degree requirements.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**COMM 65851 ORGANIZATIONAL COMMUNICATION 3 Credit Hours**

(Slashed with COMM 75851) Structure, methodology and application of communication theory in industrial and organizational settings.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**COMM 65891 SEMINAR IN ORGANIZATIONAL COMMUNICATION 3,4 Credit Hours**

(Repeatable for credit) Theories and problems of human communication within, between and/or among formal organizations.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Seminar

**Contact Hours:** 3-4 other

**Grade Mode:** Standard Letter

**COMM 66501 HEALTH COMMUNICATION 3 Credit Hours**

(Slashed with COMM 86501) Investigation of the role of communication theory, research and practice in health beliefs and behavior, health care and health promotion.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**COMM 66503 HEALTH COMMUNICATION AND MEDIA EFFECTS 3 Credit Hours**

(Slashed with COMM 86503) Overview of theory and research on the processing and effects of health messages in the media.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**COMM 66506 HEALTH COMMUNICATION AND NEW MEDIA 3 Credit Hours**

(Slashed with COMM 86506) Investigation of the implementation and effects of new media technologies and their implications for health communication.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**COMM 66507 INTERPERSONAL COMMUNICATION AND HEALTH 3 Credit Hours**

(Slashed with COMM 86507) Investigation of the interpersonal communication processes that influence and/or are influenced by health and health contexts.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**COMM 66508 HEALTH COMMUNICATION LITERACY 3 Credit Hours**

(Slashed with COMM 86508) Investigation of the concept and consequences of communication as it relates to health literacy, including social, cultural, educational and political forces that affect health literacy levels and strategies for creating accessible health communication.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**COMM 66509 PUBLIC COMMUNICATION CAMPAIGNS 3 Credit Hours**

(Slashed with COMM 86509) Overview of the major issues surrounding the development, dissemination and effects of public communication campaigns.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**COMM 75000 FOUNDATIONS OF COMMUNICATION INQUIRY 3 Credit Hours**

(Slashed with COMM 65000) Philosophy of science, epistemological and theory construction principles which are the foundation of inquiry into the process of communication.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**COMM 75020 QUANTITATIVE RESEARCH METHODS IN COMMUNICATION 3 Credit Hours**

(Slashed with COMM 65020) An examination of basic quantitative social scientific research methods and procedures for the study of communication.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**COMM 75040 QUALITATIVE RESEARCH METHODS IN COMMUNICATION 3 Credit Hours**

(Slashed with COMM 65040) Exploration of qualitative methods in human communication research. Focus on the nature of qualitative data, participant observation and archival strategies of data collection and interpretive and interactionist approaches to data analysis.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**COMM 75060 COMMUNICATION MEASUREMENT AND ANALYSIS 3 Credit Hours**

(Slashed with COMM 65060) A survey of self-report, observational and psychological instruments used in communication research. Uses of the computer in analyzing data obtained in communication research.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**COMM 75091 SEMINAR IN PERSUASION 3,4 Credit Hours**

(Repeatable for credit) (Slashed with COMM 65091) Examination of selected areas of persuasion research. Emphasis on synthesizing research results and formulating explanatory models of persuasive behavior.

**Prerequisite:** Doctoral standing; and special approval.

**Schedule Type:** Seminar

**Contact Hours:** 3-4 other

**Grade Mode:** Standard Letter

**COMM 75093 VARIABLE TITLE WORKSHOP IN COMMUNICATION STUDIES 1-6 Credit Hours**

(Repeatable for credit) Variable title workshop in communications.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Workshop

**Contact Hours:** 1-6 other

**Grade Mode:** Satisfactory/Unsatisfactory

**COMM 75095 SPECIAL TOPICS 1-4 Credit Hours**

(Repeatable for credit) (Slashed with COMM 45095 and COMM 55095) Offered when resources permit a topic different from existing courses. Topic will be announced when scheduled.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 1-4 lecture

**Grade Mode:** Standard Letter

**COMM 75096 INDIVIDUAL INVESTIGATION 1-6 Credit Hours**

(Repeatable for credit) (Slashed with COMM 65096) Independent study of area or problem to be selected in consultation with graduate staff.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Individual Investigation

**Contact Hours:** 1-6 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**COMM 75591 SEMINAR IN SMALL GROUP COMMUNICATION 3,4 Credit Hours**

(Repeatable for credit) (Slashed with COMM 65591) Research theories and findings in small group communication.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Seminar

**Contact Hours:** 3-4 other

**Grade Mode:** Standard Letter

**COMM 75652 THEORIES OF COMMUNICATION 3 Credit Hours**

(Slashed with COMM 65652) Introduction to approaches in the study of human communication. Focuses on differing views of interaction from theory building and research generation perspective.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**COMM 75660 POLITICAL COMMUNICATION 3 Credit Hours**

(Slashed with COMM 65660 and COMM 75660) An examination of political communication theory and research. Content includes approaches to political communication, role of the media in politics and analysis of political messages.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**COMM 75661 COMMUNICATION IN AN INFORMATION SOCIETY 3 Credit Hours**

(Slashed with COMM 65661) Examines how the development and use of newer communication technologies have influenced how people communicate. Considers the evolution, social and psychological impact and culture of newer communication technologies (especially the Internet) and how research adapts to such technologies.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**COMM 75662 MASS MEDIA EFFECTS 3 Credit Hours**

(Slashed with COMM 65662) Examines perspectives on media effects, the impact media have on individuals and societies and how individual, societal and communication elements influence media uses and effects. Explores issues such as media portrayals, campaigns, violence and children and the media.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**COMM 75665 PERSONAL AND MEDIATED COMMUNICATION 3 Credit Hours**

(Slashed with COMM 65665) Examination of the interface of interpersonal and mediated communication in everyday life. Includes topics such as parasocial interaction, talk radio, TV co-viewing, cell phones, teleconferencing, computer-mediated relationships and media portrayals.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**COMM 75670 INTERPERSONAL COMMUNICATION 3 Credit Hours**

(Slashed with COMM 65670) Survey of recent theoretical developments and research in interpersonal communication. Topics include relationship development, interaction, interpersonal traits, compliance, conversational analysis and research methods.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**COMM 75680 INTERCULTURAL/INTERNATIONAL COMMUNICATION 3 Credit Hours**

Examination of theoretical perspectives, research issues and the rhetorical analyses of intercultural and international communication.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**COMM 75794 TEACHING OF COLLEGE COMMUNICATION 3 Credit Hours**

(Repeatable for credit) (Slashed with COMM 65794) Training and experience in college teaching. Maximum of three hours applicable toward doctoral degree requirements.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**COMM 75851 ORGANIZATIONAL COMMUNICATION 3 Credit Hours**

(Slashed with COMM 65851) Structure, methodology and application of communication theory in industrial and organizational settings.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**COMM 75891 SEMINAR IN ORGANIZATIONAL COMMUNICATION 3,4 Credit Hours**

(Repeatable for credit) Theories and problems of human communication within, between and/or among formal organizations.

**Prerequisite:** Doctoral standing; and special approval.

**Schedule Type:** Seminar

**Contact Hours:** 3-4 other

**Grade Mode:** Standard Letter

**COMM 80199 DISSERTATION I 15 Credit Hours**

(Repeatable for credit) Doctoral dissertation for which registration in at least two semesters is required, first of which will be semester in which dissertation work is begun and continuing until the completion of 30 hours.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Dissertation

**Contact Hours:** 15 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**COMM 80299 DISSERTATION II 15 Credit Hours**

(Repeatable for credit) Continuing registration required of doctoral students who have completed the initial 30 hours of dissertation and continuing until all degree requirements are met.

**Prerequisite:** COMM 80199; and doctoral standing.

**Schedule Type:** Dissertation

**Contact Hours:** 15 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**COMM 85098 RESEARCH 1-15 Credit Hours**

(Repeatable for credit) Research or individual investigation for doctoral students who have not yet passed their candidacy examination. Credits may be applied toward degree if school approves.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Research

**Contact Hours:** 1-15 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**COMM 85673 FAMILY COMMUNICATION 3 Credit Hours**

(Slashed with COMM 65673) Family Communication examines the study of theory and research about the interactions among individuals in families. The course also examines how families interact with external entities. Finally, the course explores health communication, media uses or new communication technologies and work-life balance issues from a family communication perspective.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**COMM 85675 COMMUNICATION, UNCERTAINTY AND PRIVACY MANAGEMENT 3 Credit Hours**

(Slashed with COMM 65675) Communication, uncertainty and the management of private information examines theory and research about disclosure and uncertainty issues in communication in a variety of contexts. Course content examines disclosure and uncertainty management applications in relational contexts, health contexts, organizational contexts, and contexts involving human interaction occurring through technology.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**COMM 85677 RELATIONAL COMMUNICATION 3 Credit Hours**

(Slashed with COMM 65677) Relational communication provides an exploration of communication theory and research about the interactions among individuals in personal relationships. Subtopics of the course include communication and the development, maintenance, and dissolution of personal relationships, relationships across the life span, individual differences in relationships and relational processes, qualities and outcomes.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**COMM 85679 COMMUNICATION ACROSS THE LIFESPAN 3 Credit Hours**

(Slashed with COMM 65679) Overview of research examining communication across the lifespan, including issues related to communication and cognition, communicative uses of language, communication in close relationships and differences in media uses and effects.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**COMM 85683 INTERGROUP COMMUNICATION 3 Credit Hours**

(Slashed with COMM 65683) Overview of theory and research of communication between groups of individuals, including issues of discrimination, language, identity, social status, religion and demographics.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**COMM 85685 COMMUNICATION AND COGNITION 3 Credit Hours**

(Slashed with COMM 65685) Application of cognitive theory and research findings to understanding and explaining message production, interpersonal communication, individual differences in adaptive ability, persuasion, political communication, media processing and media effects.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**COMM 85766 COMMUNICATION IN A GLOBAL SOCIETY 3 Credit Hours**

Overview of, analysis of, and critical reflection on topics and issues related to globalization, largely from a communication perspective yet drawing from other disciplines, and including topics such as framing and narratives of globalization and fragmentation, images of national and 'civilizational' identity, discourses of marketization and consumerism, organizational communication dynamics of 'the anti-globalization movement' and 'globalization from below,' definitions and frameworks of security, symbols of war and peace, debates over corporate social responsibility, frames of environmental sustainability, the roles of new media in alternative organizational and institutional formation, and understanding global problems in terms of communication networks. Open to graduate students in and outside the College of Communication and Information who are interested in international dimensions of communication.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**COMM 86501 HEALTH COMMUNICATION 3 Credit Hours**

(Slashed with COMM 66501) Investigation of the role of communication theory, research and practice in health beliefs and behavior, health care and health promotion.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Seminar

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**COMM 86503 HEALTH COMMUNICATION AND MEDIA EFFECTS 3 Credit Hours**

(Slashed with COMM 66503) Overview of theory and research on the processing and effects of health messages in the media.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**COMM 86506 HEALTH COMMUNICATION AND NEW MEDIA 3 Credit Hours**

(Slashed with COMM 66506) Investigation of the implementation and effects of new media technologies and their implications for health communication.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**COMM 86507 INTERPERSONAL COMMUNICATION AND HEALTH 3 Credit Hours**

(Slashed with COMM 66507) Investigation of the interpersonal communication processes that influence and/or are influenced by health and health contexts.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**COMM 86508 HEALTH COMMUNICATION LITERACY 3 Credit Hours**  
(Slashed with COMM 66508) Investigation of the concept and consequences of communication as it relates to health literacy, including social, cultural, educational, and political forces that affect health literacy levels, and strategies for creating accessible health communication.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**COMM 86509 PUBLIC COMMUNICATION CAMPAIGNS 3 Credit Hours**

(Slashed with COMM 66509) Overview of the major issues surrounding the development, dissemination, and effects of public communication campaigns.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

## School of Emerging Media and Technology

### Emerging Media and Technology (EMAT)

**EMAT 10010 INTRODUCTION TO EMERGING MEDIA AND TECHNOLOGY 3 Credit Hours**

Through this course students will explore the emerging media and technology industries, receive an introduction to basic programming concepts, and develop their own emerging media project plan. Additionally, students will learn about the impact of emerging media and technology on culture and society. Topics include an introduction to ethical technology design, emerging media and globalization, and how technology relates to relationship and identity formation and maintenance.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**EMAT 10310 MY STORY ON THE WEB 3 Credit Hours**

A first course in understanding the web's impact on our private and public lives. Introductory course that enables students to establish a web presence and persona by the end of the semester. Through the storytelling initiative and creating these sites, students investigate web site design, storytelling, multimedia, intellectual property, ethical considerations and social media.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**EMAT 13210 DESIGN PROCESSES AND PRINCIPLES 3 Credit Hours**

Introduction to the discipline of design, including general design models and procedures, rational and creative models of design, and design as problem solving. Specific design contexts are introduced including information design, graphics and visual design, architectural design and educational design.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**EMAT 15310 CREATIVE CODING 3 Credit Hours**

In this course students will be given a hands-on introduction to computational thinking and object-oriented programming through the framework of creative coding. Students will learn how to use variables, loops, functions, classes and API's (Application Programming Interfaces) to make original works of creative code for screen-based media that move, interact and unfold over time. Emphasis will be placed on play and experimentation as critical facets of creative problem solving.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**EMAT 19995 SPECIAL TOPICS IN EMERGING MEDIA AND TECHNOLOGY 1-4 Credit Hours**

(Repeatable for credit) Analysis of significant and current issues in emerging media and technology not covered in regular courses. Offered when opportunities and resources permit; the topic is announced when the course is scheduled.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 1-4 lecture

**Grade Mode:** Standard Letter

**EMAT 22110 DATA IN EMERGING MEDIA AND TECHNOLOGY 3 Credit Hours**

Students will work through all levels of data analysis including accessing data, combining and cleaning datasets, describing data through report-writing and visualization, inferential statistics, and finally making data-based decisions and conveying those decisions to a lay audience. This course uses Python 3 and R to process data and will introduce students to report writing, sharing, and documentation using LaTeX and RMarkdown. The focus of this course is to convey the strengths and limitations of both 'big' and 'small' data with an overarching goal of instilling ethical data practices for research and application.

**Prerequisite:** EMAT 15310.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**EMAT 23410 COGNITION IN TECHNOLOGY 3 Credit Hours**

Introduction to the basics in human cognition as they affect technology and as technology affects human cognition. Addresses designing technologies to fit and enhance cognition, augmenting cognition with technology, and cognitive tools, as well as the impact of technology on various cognitive processes.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**EMAT 26010 TELECOMMUNICATION INFRASTRUCTURE 3 Credit Hours**

Provides an overview of communications infrastructure for public switched telephone networks, wireless networks, and local area networks. Other topics covered include network routing, LAN concepts and technologies, VoIP, and PBX.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter



**EMAT 29995 SPECIAL TOPICS IN EMERGING MEDIA AND TECHNOLOGY 1-4 Credit Hours**

(Repeatable for credit) Analysis of significant and current issues in emerging media and technology not covered in regular courses. Offered when opportunities and resources permit; the topic is announced when the course is scheduled.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 1-4 lecture

**Grade Mode:** Standard Letter

**EMAT 30410 INFORMATION ETHICS AND SOCIAL RESPONSIBILITY 3 Credit Hours**

Investigates ethical and social responsibility issues related to information technology including the application of ethical theories to information technology; potential tensions between ethical and legal norms as well as those between competing ethical values; professional codes of ethics; access and control of intellectual property; issues of privacy including those raised by the US Patriot Act; network security and user protections (e.g. viruses, protecting minors, cyberbullying); and the digital divide, outsourcing and green computing.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**EMAT 31010 ENTERPRISE ARCHITECTURE 3 Credit Hours**

Enterprise architecture facilitates the alignment of IT and IS investment decisions with business goals. Enterprise architecture is increasingly used in the industry as a result of the continued emergence of new technologies and ongoing pressures to reengineer business processes to achieve improved efficiency and greater customer focus. Enterprise architecture identifies the main components of an organization and the ways in which these components work together. The components include performance and strategy, people, business capabilities, applications, technology, knowledge and information, as well as financial and other resources.

**Prerequisite:** Sophomore standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**EMAT 32110 MODERN WEB APPLICATION DEVELOPMENT 3 Credit Hours**

In this hands-on, project-based course students will be introduced to leading industry tools and frameworks being used to create commercial web applications today, including CSS frameworks, front-end frameworks, and command line tools. Lectures, coding demonstrations, and weekly assignments will culminate in a collaborative final project in which students will be asked to conceptualize, design and implement a web application in a collaborative, team setting.

**Prerequisite:** EMAT 22110 and VCD 21000.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**EMAT 33310 HUMAN-COMPUTER INTERACTION 3 Credit Hours**

A survey course intended to provide a broad foundation of HCI principles, concepts, and techniques. Focuses on understanding HCI through fundamental design concepts and applying these to a range of interface design problems. Covers the spectrum of a user-centered design process (research, sketching, prototyping, evaluation, etc). Balances a broad conceptual understanding of HCI with detailed interface design issues.

**Prerequisite:** Sophomore standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**EMAT 34410 DIGITAL INFORMATION MANAGEMENT AND PROCESSING 3 Credit Hours**

Introduces students to the discipline of information management and processing methods and tools that are available to support effective management of information within organizations. Aims to provide a pragmatic foundation of principles, practices and technologies that can be applied within commercial and government organizations to help improve information management.

**Prerequisite:** Sophomore standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**EMAT 35091 SEMINAR IN EMERGING MEDIA AND TECHNOLOGY 3 Credit Hours**

Society is driven, in part, by digital technology. The skills and techniques used in these fast-paced digital systems requires nimble and up-to-date skill sets. This course will cover a rotating list of timely topics including but not limited to mobile applications, content management systems, data visualizations, and cutting edge development frameworks. The student experience will vary based on the topics from the rotation.

**Prerequisite:** EMAT 10010 and EMAT 15310.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**EMAT 39995 SPECIAL TOPICS IN EMERGING MEDIA AND TECHNOLOGY 1-4 Credit Hours**

(Repeatable for credit) Analysis of significant and current issues in emerging media and technology not covered in regular courses. Offered when opportunities and resources permit; the topic is announced when the course is scheduled.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 1-4 lecture

**Grade Mode:** Standard Letter

**EMAT 40999 INTERDISCIPLINARY PROJECTS (ELR) 3 Credit Hours**

(Repeatable for credit) In this hands-on course, students work in collaborative, interdisciplinary teams to complete a technology-based project that provides an innovative solution to a real-world problem. Whenever possible, connections will be made to project-based courses in emerging media and technology and beyond.

**Prerequisite:** Junior standing.

**Schedule Type:** Project or Capstone

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**Attributes:** Experiential Learning Requirement

**EMAT 41510 PROJECT MANAGEMENT AND TEAM DYNAMICS (WIC) 3 Credit Hours**

(Slashed with EMAT 51510) Introduces students to the basic elements of project management as it relates to software development and the corporate environment. Although not formally endorsed by The Project Management Institute, the course aligns with the project management lifecycle approach endorsed in The Project Management Book of Knowledge.

**Prerequisite:** EMAT 15310 or CS 13001 or CS 13012 or CIS 24065; and junior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Writing Intensive Course

**EMAT 41610 DIGITAL SYSTEMS SECURITY 3 Credit Hours**

(Slashed with EMAT 51610) Provides students with an understanding of the techniques, approaches, strategies, and computer security tactics that are used to ensure computer-related assets are protected from potential cyber compromise and are integrated with the business function. This course does not focus on the technical aspects of security (e.g., details of the operating system, data structures, or networks) but instead focuses more on computer security in a business context.

**Prerequisite:** EMAT 15310 or CS 13001 or CS 13012 or CIS 24065; and junior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**EMAT 49991 SEMINAR IN EMERGING TECHNOLOGIES 1-3 Credit Hours**

(Slashed with EMAT 59991) Explores new and emerging technologies, examining each technology from multiple viewpoints representative of the interdisciplinary nature of emerging media and technology.

**Prerequisite:** Junior standing.

**Schedule Type:** Seminar

**Contact Hours:** 1-3 lecture

**Grade Mode:** Standard Letter

**EMAT 49992 INTERNSHIP IN EMERGING MEDIA AND TECHNOLOGY (ELR) 1-6 Credit Hours**

(Repeatable for a maximum of 6 credit hours) A credit-bearing work experience with educational outcomes, utilizing and enhancing a student's academic learning in practical occupational situations. The student is expected to complete pre-determined assignments, which may include a weekly journal, final paper, or experience report.

**Prerequisite:** Junior standing; and special approval.

**Schedule Type:** Practical Experience

**Contact Hours:** 3-18 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**Attributes:** Experiential Learning Requirement

**EMAT 49995 SPECIAL TOPICS IN EMERGING MEDIA AND TECHNOLOGY 1-4 Credit Hours**

(Repeatable for credit) Analysis of significant and current issues in emerging media and technology not covered in regular courses. Offered when opportunities and resources permit; the topic is announced when the course is scheduled.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 1-4 lecture

**Grade Mode:** Standard Letter

**EMAT 49996 INDIVIDUAL INVESTIGATION IN EMERGING MEDIA AND TECHNOLOGY 1-3 Credit Hours**

(Repeatable for a maximum of 6 credit hours) Independent study carried out by a student under the supervision of a faculty member. Subject content, objectives, assignments and evaluation methods may vary.

**Prerequisite:** Junior standing; and special approval.

**Schedule Type:** Individual Investigation

**Contact Hours:** 1-3 other

**Grade Mode:** Standard Letter-IP

**EMAT 51510 PROJECT MANAGEMENT AND TEAM DYNAMICS 3 Credit Hours**

(Slashed with EMAT 41510) This course introduces students to the basic elements of project management as it relates to software development and the corporate environment. Although not formally endorsed by The Project Management Institute ([www.PMI.org](http://www.PMI.org)), the course will align with the project management lifecycle approach endorsed in The Project Management Book of Knowledge.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**EMAT 51610 DIGITAL SYSTEMS SECURITY 3 Credit Hours**

(Slashed with EMAT 41610) Provides students with an advanced understanding of the techniques, approaches, strategies, and computer security tactics that are used to ensure computer-related assets are protected from potential cyber compromise and are integrated with the business function. This course does not focus on the technical aspects of security (e.g., details of the operating system, data structures, or networks) but instead focuses more on computer security in a business context.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**EMAT 59991 SEMINAR IN EMERGING TECHNOLOGIES 1-3 Credit Hours**

(Slashed with EMAT 49991) Explores new and emerging technologies, examining each technology from multiple viewpoints representative of the interdisciplinary nature of the emerging media and technology.

**Prerequisite:** Graduate standing.

**Schedule Type:** Seminar

**Contact Hours:** 1-3 other

**Grade Mode:** Standard Letter

**EMAT 59995 SPECIAL TOPICS IN EMERGING MEDIA AND TECHNOLOGIES 1-3 Credit Hours**

(Repeatable for credit) Analysis of significant and current issues in emerging media and technology not covered in regular courses. Offered when opportunities and resources permit; the topic is announced when the course is scheduled.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 1-3 lecture

**Grade Mode:** Standard Letter

**EMAT 60999 CAPSTONE PROJECT IN EMERGING MEDIA AND TECHNOLOGY 3 Credit Hours**

(Repeatable for credit) Provides an integrative experience, bringing together components of the required coursework in the major and concentration. Students perform individual work on a project, research paper, or practicum under the supervision of faculty from programs affiliated with the School of Emerging Media and Technology. Students must be in their final semester in the master's program to enroll in this course.

**Prerequisite:** Minimum overall GPA of 3.00; and graduate standing; and special approval.

**Schedule Type:** Project or Capstone

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**EMAT 61010 ENTERPRISE ARCHITECTURE 3 Credit Hours**

Explores the alignment of IT and IS investment decisions with business goals. Enterprise architecture is increasingly used in industry as a result of the continued emergence of new technologies and ongoing pressures to reengineer business processes to achieve improved efficiency and greater customer focus. Enterprise architecture identifies the main components of an organization and the ways in which these components work together. The components include performance and strategy, people, business capabilities, applications, technology, knowledge and information, as well as financial and other resources.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**EMAT 61310 ENTERPRISE ARCHITECTURE: ENTERPRISE ARCHITECTURE CENTER OF EXCELLENCE METHODOLOGY 2 Credit Hours**

Provides an introduction to the Enterprise Architecture Center of Excellence (EACOE) methodology for enterprise architecture and practical experience using that methodology. Students learn to model a business' current or desired future state using architectural models of goals, processes, materials, roles, locations and events. Implementation models are then developed to show relationships between architectural models, and the models are analyzed to identify move-ahead initiatives that include projects, gaps, overlaps and opportunities. These initiatives are prioritized to move the business to a desired future state. At the conclusion of the course, students have the option of submitting their course enterprise architecture artifacts to EACOE for certification. Pre/

**Prerequisite:** Graduate standing.

**Corequisite:** EMAT 61010.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**EMAT 61510 PROJECT MANAGEMENT LEADERSHIP 3 Credit Hours**

This course introduces advanced project management and project management leadership as it relates to software development and the corporate environment. The course focuses on the project management principles of effective planning, communication and motivation throughout the project lifecycle, and one key project management deliverable such as the project management plan. Although not formally endorsed by The Project Management Institute ([www.PMI.org](http://www.PMI.org)), the course will align with the project management lifecycle approach endorsed in The Project Management Book of Knowledge.

**Prerequisite:** EMAT 51510; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**EMAT 62010 BUSINESS ARCHITECTURE 3 Credit Hours**

Exploration of the concept of business architecture as the critical component of enterprise architecture. Students learn how to develop an enterprise business architecture, to apply business architecture principles, methods and artifacts to support business IT alignment and to support change management needed to implement roadmaps and initiatives based on the business architecture. Students learn how different enterprise architecture frameworks approach the business layer.

**Prerequisite:** EMAT 61010; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**EMAT 62210 WEB DEVELOPMENT 3 Credit Hours**

Beginning with basic coverage of HTML, CSS, PHP, this course continues to explore those topics along with MySQL, jQuery, JavaScript and others. The course will also explore other topics relevant to web development in digital sciences, including security principles, hierarchy and visual design, responsive design, accessibility issues, interaction design, social media, and legal issues.

**Prerequisite:** CS 61002 or CS 61003 or ENGR 56330; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**EMAT 64010 DATA ARCHITECTURE 3 Credit Hours**

Exploration of data modeling at the conceptual and logical level of abstraction within the context of enterprise architecture. Students learn to identify business needs in terms of data to gain a holistic view of organizational data. Students use Master Data Management (MDM) and approaches to define various data sources.

**Prerequisite:** EMAT 61010; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**EMAT 64210 DATA SCIENCE 3 Credit Hours**

Overview of the concept of data mining, machine learning, big data, and data analytics, including the business challenges of working with data to solve real-world business problems. Students become familiar with the Cross Industry Standard Process for Data Mining (CRISP-DM). Fundamental concepts include Business Problem Understanding, Data Understanding, Data Preparation, Modeling, Evaluation, and Deployment. Data analytics in industry verticals are discussed, including science, intelligence and law enforcement, health, retail and financial services.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**EMAT 65010 APPLICATION AND TECHNOLOGY ARCHITECTURE 3 Credit Hours**

Introduction to the concept of application and technology architectures in the context of enterprise architecture. Students learn how to define application and technology architecture principles and standards to support business performance, and to evaluate existing architectures in relation to performance goals. Students learn to work with application and technology artifacts and matrices, prepare a technology dictionary and develop an application architecture blueprint.

**Prerequisite:** EMAT 61010; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**EMAT 69199 THESIS I 2-6 Credit Hours**

(Repeatable for a maximum of 6 credits hours) Thesis students must register for a total of 6 hours and may take 2 to 6 hours per semester distributed over several semesters if desired.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Masters Thesis

**Contact Hours:** 2-6 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**EMAT 69299 THESIS II 2 Credit Hours**

(Repeatable for credit) Thesis students must continue registration each semester until all degree requirements are met.

**Prerequisite:** EMAT 69199; and graduate standing.

**Schedule Type:** Masters Thesis

**Contact Hours:** 2 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**EMAT 69992 INTERNSHIP IN EMERGING MEDIA AND TECHNOLOGY 1-3 Credit Hours**

(Repeatable for credit) A credit bearing work experience with educational outcomes, utilizing and enhancing a student's academic learning in practical occupational situations. The student is expected to complete pre-determined assignments, which may include a weekly journal, final paper or experience report.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Practical Experience

**Contact Hours:** 3-9 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**EMAT 69995 SPECIAL TOPICS IN EMERGING MEDIA AND TECHNOLOGY 1-4 Credit Hours**

(Repeatable for credit) Analysis of significant and current issues in digital sciences not covered in regular courses. Offered when opportunities and resources permit; the topic is announced when the course is scheduled.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 1-4 lecture

**Grade Mode:** Standard Letter

**EMAT 69996 INDIVIDUAL INVESTIGATION IN EMERGING MEDIA AND TECHNOLOGY 1-3 Credit Hours**

(Repeatable for credit) Independent study carried out by a student under the supervision of a faculty member. Subject content, objectives, assignments, and evaluation methods may vary.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Individual Investigation

**Contact Hours:** 1-3 other

**Grade Mode:** Standard Letter-IP

## School of Journalism and Mass Communication

### Journalism and Mass Communication (JMC)

**JMC 10009 ELEMENTS OF FILM, TV AND ANIMATION 3 Credit Hours**

An introduction to the theory and conceptual choices in story, picture and sound. This course prepares students for the creative and technical aspects of film, TV, and animation work.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**JMC 12001 ELEMENTARY PHOTOGRAPHY 2 Credit Hours**

Introduction to fundamentals and techniques of still and motion picture photography. Terminal course for students who do not have photography requirements.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**JMC 13001 PRODUCTION SAFETY AND SET PROTOCOL 2 Credit Hours**

This course will enhance the collaborative experience of multimedia creation by exposing students to the various skill sets and positions in the film and TV industries and familiarize them with industry standards and best practices, especially concerning safety processes.

**Prerequisite:** School of journalism and mass communication major.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**JMC 20001 MEDIA, POWER AND CULTURE (DIVD) (KSS) 3 Credit Hours**

Fosters critical understanding of mass media in their historical, ideological, economic and cultural contexts. Examines what forces influence media and how media influence consumers.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Diversity Domestic, Kent Core Social Sciences, Transfer Module Social Sciences

**JMC 20004 ADVERTISING WRITING AND STORYTELLING 3 Credit Hours**

Introduces students to writing for advertising. In particular, students will understand how to effectively and strategically communicate to a variety of audiences, including business partners and consumers.

**Prerequisite:** Minimum 2.000 overall GPA; and advertising major or minor, digital media production, fashion media, journalism, media literacy, photojournalism, public relations or visual journalism.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**JMC 20005 FUNDAMENTALS OF MEDIA MESSAGES 3 Credit Hours**

Working with messages for print, broadcast, electronic and new media outlets. Course may not be taken for credit nor applied toward any requirements by a journalism and mass communication major.

**Prerequisite:** Communication studies major or fashion merchandising or community health education major.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**JMC 20006 MULTIMEDIA TECHNIQUES 3 Credit Hours**

Introduction to basic elements of multimedia journalistic storytelling, including the creation of audio, video, slideshows and multimedia packages for distribution via the Internet.

**Prerequisite:** Advertising, digital media production, fashion media, journalism, photojournalism or public relations major or minor.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 2 lecture, 2 lab

**Grade Mode:** Standard Letter

**JMC 20008 RESEARCH AND MEASUREMENT IN ADVERTISING AND PUBLIC RELATIONS 3 Credit Hours**

Understand the ways research is employed and applied in integrated communication, including both primary and secondary research. Students will understand how to use research and insights to develop strategy, or to craft research on business strategy. They also will become thoughtful researchers and consumers of research who are cognizant of the ethical and moral responsibilities associated with human subjects research. Students will be expected to understand and appreciate the diversity of audiences. Finally, students will develop critical thinking and writing skills in order to create and share a well-crafted presentation to clients that reflect a strong understanding of the connections among data, insight and strategy.

**Prerequisite:** EMAT 10310 or JMC 20006; and JMC 21001 or JMC 28001; and minimum 2.000 overall GPA; and advertising, fashion media, journalism, media literacy, photojournalism, public relations or visual journalism major or minor.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**JMC 20009 VIDEO AUDIO PRODUCTION AESTHETICS 3 Credit Hours**

Study of basic video and audio production aesthetics; analysis of film, television and radio through creative use of images and sound to create meaning.

**Prerequisite:** Advertising, communication studies, design, digital media production, digital sciences, fashion media, global communication, health communication, information design, interpersonal communication, journalism, media literacy, organizational communication, photography, photojournalism, public communication, public relations, user experience design, visual communication design or visual journalism major or minor.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**JMC 20011 PRODUCTION FUNDAMENTALS 3 Credit Hours**

Introduction to TV studio, camera, and sound production and post-production techniques.

**Prerequisite:** School of journalism and mass communication, or school of emerging media and technology, or school of visual communication design major or minor.

**Schedule Type:** Laboratory, Lecture, Combined Lecture and Lab

**Contact Hours:** 1 lecture, 4 lab

**Grade Mode:** Standard Letter

**JMC 21001 PRINCIPLES OF ADVERTISING 3 Credit Hours**

Advertising history, purposes, techniques, media and research; analysis of functions of advertising organizations.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** TAG Communication

**JMC 21004 ADVERTISING AND PUBLIC RELATIONS INDUSTRY TOOLS 1 Credit Hour**

Understanding of and proficiency in word processing, spreadsheet, design and presentation tools.

**Prerequisite:** A major or minor in Advertising, digital media production, fashion media, journalism, media literacy, photojournalism, public relations or visual journalism.

**Schedule Type:** Lecture

**Contact Hours:** 1 lecture

**Grade Mode:** Standard Letter

**JMC 21005 ADVERTISING MESSAGING AND COMMUNICATION 3 Credit Hours**

Introduces students to the history and development of advertising, including the ways various audiences have been targeted and represented. This course also has a strong emphasis on professional writing and communication.

**Prerequisite:** JMC 20004 and JMC 21001 with a minimum C- grade; and EMAT 10310 or JMC 20006 with a minimum C- grade; and minimum 2.000 overall GPA; and advertising minor or major.

**Pre/corequisite:** JMC 20008 with a minimum C- grade.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter



**JMC 21008 SOCIAL MEDIA STRATEGIES 3 Credit Hours**

Designed to help students understand and use social media in critical and strategic ways that will improve their lives and careers. Helps students harness the power and potential of the social Web, including strategies used to position and market organizations as well as individuals. Exposes students to the latest social-media applications and to critical views of social media's impact on business, society and culture. Students are also introduced to interaction perspectives of social media, which are embedded within both the communication studies and the journalism and mass communication curriculum. Students emerge from the class with a strategic plan designed to enhance their lives and their careers.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**JMC 22000 PHOTOGRAPHY BASICS 1 Credit Hour**

Fundamentals of b/w and color photography and digital manipulation software. Introduction of basic themes of journalistic photography including flash photography. Student furnishes 35mm or APS camera with flash. Disposable cameras not acceptable. A GPA of 2.700 is required in the major.

**Prerequisite:** Minimum 2.000 overall GPA; and integrated language arts, digital media production or journalism major.

**Schedule Type:** Lecture

**Contact Hours:** 1 lecture

**Grade Mode:** Standard Letter

**JMC 22001 PHOTOGRAPHY 3 Credit Hours**

Basic camera and digital techniques to provide a better understanding of photography as a creative and journalistic skill.

**Prerequisite:** Art education or journalism major or minor.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** TAG Communication

**JMC 22002 VIDEOGRAPHY BASICS 1 Credit Hour**

Instruction in basic camcorder videography video editing techniques to provide understanding of processes as creative journalistic skills and as practical application of knowledge acquired in the prerequisite class.

**Prerequisite:** Journalism and mass communication or integrated language arts or visual communication and design major.

**Schedule Type:** Lecture

**Contact Hours:** 1 lecture

**Grade Mode:** Standard Letter

**JMC 22003 VIDEOGRAPHY BASICS II 1 Credit Hour**

Emphasis on video editing for broadcast news and electronic media production applications using computer video editing skills.

**Prerequisite:** School of journalism and mass communication major or minor.

**Pre/corequisite:** JMC 22002 with a minimum C- grade.

**Schedule Type:** Lecture

**Contact Hours:** 1 lecture

**Grade Mode:** Standard Letter

**JMC 22004 VISUAL STORYTELLING 3 Credit Hours**

Technical and digital skills needed to produce photos that communicate. Course will stress narrative work, detailed caption information and reporting. A GPA of 2.700 is required in the major.

**Prerequisite:** JMC 22001 or CCI 12001; and minimum 2.000 overall GPA; and journalism and mass communication or visual communication design major.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**JMC 23004 STORY FOR PICTURE 3 Credit Hours**

An introductory course on plot, character development, and dramatic structure for narrative scriptwriting.

**Prerequisite:** Advertising, digital media production, fashion media, journalism, media literacy, photojournalism, public relations or visual journalism major or minor.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**JMC 23030 BASIC VIDEO PRODUCTION 3 Credit Hours**

Theoretical and practical application of program production for video. A GPA of 2.700 is required in the major.

**Prerequisite:** JMC 20001 or JMC 20003 with a minimum C- grade; and JMC 20004 and JMC 22002 with a C- grade; and minimum 2.000 overall GPA; and journalism and mass communication major.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 2 lecture, 2 lab

**Grade Mode:** Standard Letter

**JMC 23031 BASIC AUDIO PRODUCTION 3 Credit Hours**

Theoretical and practical application of program production for audio production. A GPA of 2.700 is required in the major.

**Prerequisite:** JMC 20003 with a minimum C- grade; and JMC 20004 and 22002 with a minimum C- grade; and minimum 2.000 overall GPA; and school of journalism and mass communication major or minor.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 2 lecture, 2 lab

**Grade Mode:** Standard Letter

**Attributes:** TAG Communication

**JMC 23130 DIRECTING FOR PICTURE 3 Credit Hours**

A course designed to give students the creative and technical knowledge and skills needed to direct narrative and documentary productions. A GPA of 2.700 is required in the major.

**Prerequisite:** JMC 20011 with a minimum C- grade; and JMC 23004 or JMC 30004 with a minimum C- grade; and minimum 2.000 overall GPA; and advertising, digital media production, fashion media, journalism, media literacy, photojournalism, public relations or visual journalism major or minor.

**Schedule Type:** Laboratory, Lecture, Combined Lecture and Lab

**Contact Hours:** 2 lecture, 2 lab

**Grade Mode:** Standard Letter

**JMC 23140 PRODUCTION I 3 Credit Hours**

A hands-on introduction to narrative and documentary storytelling. Students write, edit and direct projects emphasizing visual storytelling. A GPA of 2.700 is required in the major.

**Prerequisite:** A minimum C- grade in the following courses JMC 20011, JMC 23004 and JMC 23130.

**Schedule Type:** Laboratory, Lecture, Combined Lecture and Lab

**Contact Hours:** 1 lecture, 4 lab

**Grade Mode:** Standard Letter

**JMC 26001 WRITING ACROSS PLATFORMS 3 Credit Hours**

Theory and practice in writing basic print and digital news and feature stories.

**Prerequisite:** JMC 20003 with a minimum C- grade; and JMC 20006 or EMAT 10310 with a minimum C- grade; and school of journalism and mass communication major or minor; or integrated language arts major.

**Schedule Type:** Laboratory, Lecture, Combined Lecture and Lab

**Contact Hours:** 1 lecture, 4 lab

**Grade Mode:** Standard Letter

**JMC 26005 STORYTELLING ACROSS PLATFORMS 3 Credit Hours**

Multimedia as story telling tools. Developing the multimedia mindset. Using different delivery platforms and understanding deadlines of various media forms. Formatting stories for web/mobile delivery. Learning different multimedia formats. Using multimedia in breaking news situations. Creating multimedia features and packages. Standalone vs. complementary stories. Learning more about capturing and using video, audio and still photos. Ethical and legal issues surrounding online news reporting and presentation. A GPA of 2.700 is required in the major.

**Prerequisite:** Minimum C- grade in JMC 26001; and minimum C- grade in EMAT 10310 or JMC 20006.

**Schedule Type:** Laboratory, Lecture

**Contact Hours:** 2 lecture, 2 lab

**Grade Mode:** Standard Letter

**JMC 26007 REPORTING 3 Credit Hours**

Gathering and writing news: interviewing techniques, cultivating sources, developing beats, meeting deadlines. Includes campus reporting for Daily Kent Stater. A GPA of 2.700 is required in the major.

**Prerequisite:** A minimum C- grade in JMC 26005 or JMC 38002.

**Schedule Type:** Laboratory, Lecture

**Contact Hours:** 2 lecture, 2 lab

**Grade Mode:** Standard Letter

**JMC 26008 BROADCAST REPORTING 3 Credit Hours**

Writing news, developing sources and beats, meeting deadlines as they relate to electronic media. Includes reporting campus news for daily broadcasts. A GPA of 2.700 is required in the major.

**Prerequisite:** JMC 26005 and COMM 21000 with a minimum C- grade; and minimum 2.000 cumulative GPA; and school of journalism and mass communication major.

**Schedule Type:** Laboratory, Lecture

**Contact Hours:** 2 lecture, 2 lab

**Grade Mode:** Standard Letter

**JMC 26395 SPECIAL TOPICS IN JOURNALISM SKILLS 3 Credit Hours**

(Repeatable three times for credit) Includes writing different types of news stories for various platforms.

**Prerequisite:** Special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**JMC 28001 PRINCIPLES OF PUBLIC RELATIONS 3 Credit Hours**

Explores strategic role and function of public relations in business, nonprofit public institutions and society. Covers public relations practice from development to present.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**JMC 30004 WRITING FOR VIDEO AND AUDIO MEDIA 3 Credit Hours**

Application of standard writing styles and formats in the electronic media. Writing practice in commercials, continuity, promotions and introductory scriptwriting techniques. A GPA of 2.700 is required in the major.

**Prerequisite:** JMC 20009 or JMC 20011 with a minimum C- grade; and minimum 2.000 overall GPA; and advertising, digital media production, fashion media, journalism, media literacy, photojournalism, public relations or visual journalism major or minor.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**JMC 30034 PROGRAMMING FOR DIGITAL MEDIA 3 Credit Hours**

Background analysis of radio, TV, cable and Internet programming and the relationship to audience needs, interests, expectations and audience measurement procedures. A GPA of 2.700 is required in the major.

**Prerequisite:** A minimum C- grade in either JMC 30036 or JMC 33033 or JMC 33043.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**JMC 30036 DIGITAL VIDEO EDITING 3 Credit Hours**

Intermediate class in editing for single camera and multi-camera productions using Adobe Premiere software. A GPA of 2.700 is required in the major.

**Prerequisite:** JMC 20011 with a minimum C- grade; and minimum 2.000 overall GPA; and school of journalism and mass communication major or minor.

**Schedule Type:** Laboratory, Lecture, Combined Lecture and Lab

**Contact Hours:** 2 lecture, 2 lab

**Grade Mode:** Standard Letter

**JMC 31002 ADVERTISING COPYWRITING (WIC) 3 Credit Hours**

Examination and practice in various forms of advertising copywriting and their applications. A GPA of 2.700 is required in the major.

**Prerequisite:** Minimum grade of C- in JMC 20004 and 21001 and 31011; and minimum 2.000 overall GPA; and advertising major or minor.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Writing Intensive Course

**JMC 31003 ADVERTISING MEDIA PLANNING 3 Credit Hours**

Analysis, selection and scheduling of advertising media. Examination of advertising research, technique and application. A GPA of 2.700 is required in the major.

**Prerequisite:** Minimum grade of C- in JMC 20004 and 20008 and 21001; and minimum 2.000 overall GPA; and advertising major or minor.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**JMC 31004 DIGITAL ADVERTISING 3 Credit Hours**

Explores digital targeting, advertising and mobilization in detail. Students will learn how to run winning digital advertising campaigns that educate and activate constituents. It is the study of overall strategic creation of digital advertising communication with a focus on copy writing and the implementation of basic production skills. A 2.70 GPA is required in the major.

**Prerequisite:** Minimum C- grade in JMC 20004 and JMC 20008 and JMC 21001; and minimum 2.000 overall GPA; and advertising major or minor.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**JMC 31007 DIGITAL ANALYTICS IN ADVERTISING AND PUBLIC RELATIONS 2 Credit Hours**

Explores digital analytics and online measurement. Students will start with planning and setting measurable objectives, finding online audiences, and then design and implement measurement plans. Students will use social media analytics tools and Google analytics to capture data and then determine next steps. A 2.70 GPA is required in the major.

**Prerequisite:** JMC 20008 with a minimum C- grade; and minimum 2.000 overall GPA; and advertising or public relations major or minor.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**JMC 31011 ADVERTISING STRATEGY DEVELOPMENT 3 Credit Hours**

Ad majors learn problem-solving techniques, which they will apply to business and creative proposals designed to promote products and or services. Development of good, clear writing skills is a key component of the course.

**Prerequisite:** Minimum C- grade in JMC 20004, JMC 20008, JMC 21001 and JMC 21004; and minimum C- grade in either EMAT 10310 or JMC 20006; and minimum 2.000 overall GPA; and advertising major or minor.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**JMC 32001 PHOTOJOURNALISM I 3 Credit Hours**

Production of photographs for newspapers, magazines and online news media. A laboratory course emphasizing color and black and white photography. A GPA of 2.700 is required in the major.

**Prerequisite:** Minimum C- grade in CCI 12001 or JMC 22001 or VCD 18000.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**JMC 32002 PHOTOJOURNALISM II 3 Credit Hours**

(Repeatable once for credit) Continuation of JMC 32001. Advanced news and feature photography for newspapers, magazines and online including a collaborative project. A GPA of 2.700 is required in the major.

**Prerequisite:** A minimum C- grade in JMC 32001.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**JMC 32005 VIDEO FOR STILL PHOTOGRAPHERS 3 Credit Hours**

Teaches video skills for photojournalists, including interviewing, establishing a narrative, editing, and how video is paired with the written story. A GPA of 2.700 is required in the major.

**Prerequisite:** JMC 22004 with a minimum C- grade; and journalism and mass communication major.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**JMC 33024 BROADCAST PERFORMANCE 3 Credit Hours**

Development of effective communication techniques in performance situations for visual media. A GPA of 2.700 is required in the major.

**Prerequisite:** JMC 26008 with a minimum C- grade; and minimum 2.000 overall GPA; and advertising, digital media production, fashion media, journalism, media literacy, photojournalism, public relations or visual journalism major or minor.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**JMC 33032 AUDIO SET-UP AND MIXING 3 Credit Hours**

Production of in-studio audio programming units, with laboratory unit required as part of course. A GPA of 2.700 is required in the major.

**Prerequisite:** JMC 20011 with a minimum C- grade; and minimum 2.000 GPA; and advertising, digital media production, fashion media, journalism, media literacy, photojournalism, public relations or visual journalism major or minor.

**Corequisite:** JMC 30004.

**Schedule Type:** Laboratory, Lecture, Combined Lecture and Lab

**Contact Hours:** 2 lecture, 2 lab

**Grade Mode:** Standard Letter

**JMC 33033 SOUND FOR PICTURE 3 Credit Hours**

An intermediate class for audio and music in film and multimedia.

Students learn the entire process of sound for picture workflow, department by department, from pre-production and budgeting through final mixdown. A GPA of 2.700 is required in the major.

**Prerequisite:** JMC 20011 minimum C- grade; and minimum 2.000 overall GPA; and advertising, digital media production, digital sciences, fashion media, journalism, media literacy, photojournalism, public relations or visual journalism major or minor.

**Schedule Type:** Laboratory, Lecture, Combined Lecture and Lab

**Contact Hours:** 2 lecture, 2 lab

**Grade Mode:** Standard Letter

**JMC 33036 MULTIMEDIA ENGINEERING 3 Credit Hours**

Introduction to basic digital media technology and systems, providing knowledge and vocabulary to allow communication with broadcast engineers. Overview of radio/TV operations and legal viewpoint. Prep for SBE operators' cert. exam. A GPA of 2.700 is required in the major.

**Prerequisite:** JMC 20011 with a minimum C- grade; and a minimum C- grade in two of the following JMC 30036, JMC 33033 or JMC 33043; and minimum 2.000 overall GPA; and journalism and mass communication major.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**JMC 33042 STUDIO TELEVISION 3 Credit Hours**

Study of all positions of a live television program including technical directing, floor directing, graphics, digital playback, and audio engineering. One hour lecture two hours lab. A GPA of 2.700 is required in the major.

**Prerequisite:** JMC 20011 with a minimum C- grade; and minimum 2.000 overall GPA; and advertising, digital media production, fashion media, journalism, media literacy, photojournalism, public relations or visual journalism major or minor.

**Corequisite:** JMC 30004.

**Schedule Type:** Laboratory, Lecture, Combined Lecture and Lab

**Contact Hours:** 1 lecture, 4 lab

**Grade Mode:** Standard Letter

**JMC 33043 DIGITAL CINEMATOGRAPHY 3 Credit Hours**

Course focuses on digital cinematography techniques for shooting documentary and narrative fiction. Two hours lecture, one hour lab. A GPA of 2.700 is required in the major.

**Prerequisite:** JMC 20011 with a minimum C- grade; and minimum 2.000 overall GPA; and advertising, digital media production, fashion media, journalism, media literacy, photojournalism, public relations or visual journalism major or minor.

**Schedule Type:** Laboratory, Lecture

**Contact Hours:** 2 lecture, 2 lab

**Grade Mode:** Standard Letter

**JMC 33092 STUDENT MEDIA PRACTICUM IN DIGITAL MEDIA PRODUCTION (ELR) 1-3 Credit Hours**

(Repeatable for a maximum of 3 credit hours) Performance of assigned activities in radio or television under student media supervision. A GPA of 2.700 is required in the major.

**Prerequisite:** JMC 20003 with a minimum C- grade; and minimum 2.000 GPA; and sophomore standing; and special approval.

**Schedule Type:** Practical Experience

**Contact Hours:** 3-9 other

**Grade Mode:** Satisfactory/Unsatisfactory

**Attributes:** Experiential Learning Requirement

**JMC 36005 COPY EDITING AND NEWS DESIGN 3 Credit Hours**

Improving the writing of other journalists and writing headlines. Intensive review of AP style and grammar. A GPA of 2.700 is required in the major.

**Prerequisite:** COMM 21000 and JMC 26001 with a minimum C- grade; and minimum 2.000 overall GPA.

**Schedule Type:** Laboratory, Lecture

**Contact Hours:** 3 lecture, 0 lab

**Grade Mode:** Standard Letter

**JMC 36008 FREELANCE JOURNALISM 3 Credit Hours**

Provides students the tools, resources and strategies needed to pitch creative works to magazines, book publishers, contests and other media companies. They will learn to research markets, craft effective queries and manage the business considerations of being a freelancer. A GPA of 2.700 is required in the major.

**Prerequisite:** JMC 36018 with a minimum C- grade; and minimum 2.000 overall GPA; and advertising, digital media production, fashion media, journalism, media literacy, photojournalism, public relations or visual journalism major or minor.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**JMC 36010 INTERVIEWING AND DATA FOR JOURNALISTS 3 Credit Hours**

Interviewing techniques for reporters across media platforms. Skills for in-person, phone, email and social media interviews that will be used to produce stories for publication. Includes ethics of journalistic interviews and interrogating data. Introduction to data collection for reporters. A 2.70 GPA is required in the JMC major.

**Prerequisite:** JMC 26005 with a minimum C- grade; and a major or minor in advertising, digital media production, fashion media, journalism, media literacy, photojournalism, public relations or visual journalism.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**JMC 36018 FEATURE WRITING 3 Credit Hours**

Researching writing and placement of feature stories in publications. A GPA of 2.700 is required in the major.

**Prerequisite:** Minimum C- grade in JMC 26007 or JMC 26008; and minimum 2.000 overall GPA.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**JMC 36020 STORYTELLING WITH SOUND 3 Credit Hours**

Teaches students how to research, write, edit and produce compelling audio news and storytelling packages. Students will learn both the technical side of producing audio stories and the journalistic and narrative sides of writing audio stories. A 2.700 is required in the major.

**Prerequisite:** Minimum C- grade in JMC 26005 or JMC 23004 or JMC 30004; and minimum 2.000 overall GPA; and digital media production or journalism major or minor.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 2 lecture, 2 lab

**Grade Mode:** Standard Letter

**JMC 36040 MAGAZINE EDITING AND DESIGN 3 Credit Hours**

Teaches the fundamentals of editing and design for print magazine media. It teaches the skills necessary to become an editor. A 2.70 GPA is required in the journalism major.

**Prerequisite:** JMC 36005 with minimum C- grade; and minimum 2.000 overall GPA; and advertising, digital media production, fashion media, journalism, media literacy, photojournalism, public relations or visual journalism major or minor .

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**JMC 36050 ADVANCED REPORTING 3 Credit Hours**

Focuses on accountability journalism. Students will work on both individual and team reporting projects. Students will develop and report stories of substance on local, state, and national issues. Each student will have to conduct at least one accountability interview with either a member of Congress or a member of the state legislature on a specific topic or issue. A GPA of 2.700 is required in the major.

**Prerequisite:** JMC 26007 or JMC 26008; and a minimum 2.000 cumulative GPA; and a major or minor in advertising, digital media production, fashion media, journalism, media literacy, photojournalism, public relations or visual journalism major or minor.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 2 lecture, 2 lab

**Grade Mode:** Standard Letter



**JMC 36395 SPECIAL TOPICS IN JOURNALISM REPORTING 3 Credit Hours**

(Repeatable three times for credit) Topics of special interest not covered in existing reporting classes. A GPA of 2.700 is required in the major.

**Prerequisite:** Minimum 2.000 overall GPA; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**JMC 38002 PUBLIC RELATIONS CASE STUDIES 3 Credit Hours**

Explores the process and practice of public relations by requiring students to analyze real-world case studies and develop an actual public relations plan on behalf of a client organization. Students should expect to spend time outside the classroom working within teams in support of client objectives. A significant amount of writing in multiple formats is required. A major GPA of 2.700 is required.

**Prerequisite:** JMC 26001 and JMC 28001 with a minimum C- grade; and minimum 2.000 overall GPA; and advertising, digital media production, fashion media, journalism, media literacy, photojournalism, public relations or visual journalism major or minor.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**JMC 40002 REPORTING FOR MASS MEDIA 3 Credit Hours**

(Slashed with JMC 50002) Theory and practice in newswriting and reporting; news values and news judgment lead and story development techniques of gathering information and dealing with sources of news writing for deadline. Course may not be taken for credit or applied toward any requirements by a Journalism and Mass Communication (JMC) major or minor without special approval.

**Prerequisite:** Minimum 2.75 overall GPA; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**JMC 40004 COMPUTER ASSISTED REPORTING 3 Credit Hours**

(Slashed with JMC 50004) Computer analysis of large data sets, focusing on government court police records for preparation of news stories basics of online searching software and databases. A GPA of 2.700 is required in the major.

**Prerequisite:** JMC 26007 or 26008 with a C- grade; and 2.000 overall GPA.

**Schedule Type:** Laboratory, Lecture

**Contact Hours:** 3 lecture, 0 lab

**Grade Mode:** Standard Letter

**JMC 40006 LAW OF MASS COMMUNICATION 3 Credit Hours**

(Slashed with JMC 50006) Libel and slander; privacy copyright obscenity regulation of advertising broadcasting and corporate speech access to government legal; problems of new media. A GPA of 2.700 is required in the major.

**Prerequisite:** Minimum 2.000 overall GPA; and advertising, digital media production, journalism, photojournalism, public relations majors or media literacy minor; and junior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**JMC 40007 REVIEWING THE ARTS 2 Credit Hours**

(Slashed with JMC 50007) Reviewing and criticizing of performing, visual and literary arts. Emphasis on books, film, TV and theatre. A GPA of 2.700 is required in the major.

**Prerequisite:** JMC 20004 with a minimum B- grade or JMC 26001 with a C- grade; and minimum 2.000 overall GPA; and junior or senior standing.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**JMC 40009 COMPARATIVE MEDIA SYSTEMS 3 Credit Hours**

Study of the forms, organization scope and modes of operation of media systems in foreign lands. Also examines agent channels and contents of international communication. A GPA of 2.700 is required in the major.

**Prerequisite:** Minimum 2.000 overall GPA; and junior or senior standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**JMC 40010 ETHICS AND ISSUES IN MASS COMMUNICATION (WIC) 3 Credit Hours**

Ethical problems and issues in mass communication within a framework of basic theories, functions and social roles of the mass media. A GPA of 2.700 is required in the major.

**Prerequisite:** At least 18 hours of JMC courses with a minimum C- grade; a minimum C- grade in JMC 20004 or JMC 26001 or JMC 30004; and minimum 2.000 overall GPA; and school of journalism and mass communication major; and senior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Writing Intensive Course

**JMC 40011 ETHICAL ISSUES IN INTEGRATED COMMUNICATION 1 Credit Hour**

Focuses specifically on the ethical and moral issues affecting Advertising and Public Relations professionals. Focuses solely on Integrated Communications. Students will understand and appreciate the complex moral and ethical decisions that professionals make each day, often under intense deadline pressure. They also acquire their basic problem-solving skills to manage these issues in real time. A GPA of 2.700 is required in the major.

**Prerequisite:** JMC 31002 and 31003 or JMC 38002; and minimum 2.000 overall GPA; and advertising or public relations major.

**Schedule Type:** Lecture

**Contact Hours:** 1 lecture

**Grade Mode:** Standard Letter

**JMC 40012 ONLINE JOURNALISM 3 Credit Hours**

Study and evaluation of online news and news sites; reporting and writing for online news media design production and maintenance of an online news site ethical legal and economic issues related to online news. A GPA of 2.700 is required in the major.

**Prerequisite:** JMC 26007 or 26008 with a minimum C- grade; and minimum 2.000 overall GPA.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter



**JMC 40013 TELEVISION SPORTS PRODUCTION 3 Credit Hours**  
(Slashed with JMC 50013) A comprehensive study of the production of live action television. A GPA of 2.700 is required in the major.

**Prerequisite:** Minimum 2.000 overall GPA; and journalism and mass communication major; and sophomore; and junior or senior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**JMC 40015 MEDIA MARKETPLACE 3 Credit Hours**  
(Slashed with JMC 50015) Exploring management issues unique to media organizations and the impact of those issues on the organization's structure, economics markets and employees. A GPA of 2.700 is required in the major.

**Prerequisite:** JMC 26001 with a minimum C- grade; and minimum 2.000 overall GPA; and journalism and mass communication major; and junior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**JMC 40016 LAW OF ADVERTISING AND PUBLIC RELATIONS 3 Credit Hours**  
(Slashed with JMC 50016) Regulation of advertising and corporate speech; first amendment libel and privacy legal problems of new media. A GPA of 2.700 is required in the major.

**Prerequisite:** 18 hours of JMC courses all with a minimum C- grade; and minimum C- grade in JMC 31002 or 31003 or 38002; and minimum 2.000 overall GPA; and advertising or public relations majors.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**JMC 40017 MEDIA ENTERPRISE 3 Credit Hours**  
(Slashed with JMC 50017) Explores methods to build and sustain organizations that market and monetize multimedia content to targeted audiences through appropriate distribution streams. Through case studies, examination of evolving best practices in media organizations and elsewhere, students will study and apply enterprise thinking.

**Prerequisite:** JMC 40015 or ENTR 27056.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**JMC 40020 AUDIO AND STILL PHOTO PRODUCTION 3 Credit Hours**  
(Slashed with JMC 50020) Develop skills in telling journalistic stories by producing multimedia news stories through research and planning; reporting using digital cameras and digital audio recorders; editing photos and audio. A GPA of 2.700 is required in the major.

**Prerequisite:** JMC 22001 or CCI 12001 with a minimum C- grade; and minimum 2.000 overall GPA; and journalism and mass communication major; and junior or senior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**JMC 40022 FILM AS COMMUNICATION 3 Credit Hours**  
Study of the relationship of television and theatre films to the mass audience in terms of components and effects. A GPA of 2.700 is required in the major.

**Prerequisite:** JMC 20004 with a minimum B- grade or JMC 20005 with a minimum C- grade; and minimum 2.000 overall GPA.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**JMC 40023 NON-TRADITIONAL JOURNALISM 3 Credit Hours**  
(Slashed with JMC 50023) The study of journalistic writing that goes beyond the inverted pyramid and traditional feature story and has topics traditionally not defined as news. Students will also work as part of a team on multi-part stories. A GPA of 2.700 is required in the major.

**Prerequisite:** Minimum grade of C- (1.700) in JMC 26007; 2.000 overall GPA; and Journalism and Mass Communication (JMC) major and Junior or Senior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**JMC 40027 MANAGING MEDIA DIVERSITY 3 Credit Hours**  
(Slashed with JMC 50027) Aspects of diversity and how it changes our environment with emphasis on the field of mass communication. A GPA of 2.700 is required in the major.

**Prerequisite:** Minimum 2.000 overall GPA.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**JMC 40030 COLLABORATIVE ONLINE PRODUCING 3 Credit Hours**  
(Slashed with JMC 50030) The use of multimedia and interactive storytelling tools such as video, audio and graphics. Students work in teams to produce packages for online news sites and organizational videos. A GPA of 2.700 is required in the major.

**Prerequisite:** JMC 40012 with a minimum C- grade; and minimum 2.000 overall GPA; and journalism and mass communication major; and special approval.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 2 lecture, 2 lab

**Grade Mode:** Standard Letter

**JMC 40037 SCRIPTWRITING FOR VIDEO AND FILM 3 Credit Hours**  
The emphasis of the course is on writing dramatic scripts for broadcast or motion pictures. The course also includes current perspectives on market needs. A GPA of 2.700 is required in the major.

**Prerequisite:** JMC 23004 or JMC 30004 with a minimum C- grade; and minimum 2.000 overall GPA; and advertising, digital media production, journalism or public relations major.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**JMC 40092 INTERNSHIP (ELR) 1-6 Credit Hours**  
(Repeatable for a maximum of 6 credit hours) Experience in a professional setting under professional supervision in student's field of specialization. A GPA of 2.700 is required in the major.

**Prerequisite:** Minimum 2.000 overall GPA; and special approval.

**Schedule Type:** Practical Experience

**Contact Hours:** 10-60 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**Attributes:** Experiential Learning Requirement

**JMC 40095 SPECIAL TOPICS IN JOURNALISM AND MASS COMMUNICATION 1-3 Credit Hours**  
(Repeatable for credit) Selected topics of special interest not covered in depth in existing courses; offered as resources permit.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 1-3 lecture

**Grade Mode:** Standard Letter

**JMC 40096 INDIVIDUAL PROJECTS IN MASS COMMUNICATIONS****1-3 Credit Hours**

(Repeatable for credit) Individual research projects in mass communications. Letter grades and IP permissible. A GPA of 2.700 is required in the major.

**Prerequisite:** Minimum 2.000 overall GPA; and junior or senior standing; and special approval.

**Schedule Type:** Individual Investigation

**Contact Hours:** 1-3 other

**Grade Mode:** Standard Letter-IP

**JMC 40099 SENIOR HONORS PROJECT (ELR) 2-4 Credit Hours**

Thesis or other independent study project in mass communication. A GPA of 2.700 is required in the major.

**Prerequisite:** Minimum 2.000 overall GPA; journalism and mass communication majors only; and admitted to the honors college.

**Schedule Type:** Senior Project/Honors Thesis

**Contact Hours:** 2-4 other

**Grade Mode:** Standard Letter-IP

**Attributes:** Experiential Learning Requirement

**JMC 40192 RADIO-TELEVISION INTERNSHIP (ELR) 1 Credit Hour**

(Repeatable once for credit) Experience, under professional supervision in a radio or television station or other industry, using electronic audio or video communications. A GPA of 2.700 is required in the major.

**Prerequisite:** Minimum 2.000 overall GPA; and special approval.

**Schedule Type:** Practical Experience

**Contact Hours:** 1 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**Attributes:** Experiential Learning Requirement

**JMC 40193 VARIABLE TITLE WORKSHOP IN JMC 1-3 Credit Hours**

(Repeatable for credit) (Slashed with JMC 50193) Workshop setting dealing with topics in mass communications. A GPA of 2.700 is required in the major.

**Prerequisite:** Minimum 2.000 overall GPA; and special approval.

**Schedule Type:** Workshop

**Contact Hours:** 1-3 other

**Grade Mode:** Satisfactory/Unsatisfactory

**JMC 40196 INDEPENDENT STUDY IN RADIO AND TELEVISION 1-3 Credit Hours**

(Repeatable for a total of 6 credit hours) Research and writing on topics approved by the students' advisers and study directors. A GPA of 2.700 is required in the major.

**Prerequisite:** Minimum 2.000 overall GPA; and junior or senior standing; and special approval.

**Schedule Type:** Individual Investigation

**Contact Hours:** 1-3 other

**Grade Mode:** Standard Letter-IP

**JMC 40201 PUBLIC RELATIONS PRACTICE: PUBLIC AFFAIRS 1 Credit Hour**

(Slashed with JMC 50201) Provides a basic understanding of the public affairs role in public relations. It specifically examines how external factors surrounding an organization can trigger disruption, opportunity, change, adaptation, and evolution. Students explore techniques for anticipating, managing, adapting, or changing those forces. Primary attention is paid to environmental scanning, issue and stakeholder identification and management, lobbying, advocacy, and ethical implications of public policy. A GPA of 2.700 is required in the major.

**Prerequisite:** JMC 21005 or JMC 38002 with a minimum C- grade.

**Schedule Type:** Lecture

**Contact Hours:** 1 lecture

**Grade Mode:** Standard Letter

**JMC 40202 PUBLIC RELATIONS PRACTICE: CRISIS COMMUNICATION 1 Credit Hour**

(Slashed with JMC 50202) Provides a basic understanding of the best practices of crisis planning, preparation, communication and management. The course will focus on the critical capabilities, team work and decision making skills required of public relations practitioners during periods of intense organizational turbulence, crisis, and reputational threat across numerous stakeholder groups, including internal, external, public, private and legislative audiences. A GPA of 2.700 is required in the major.

**Prerequisite:** A minimum C- grade in JMC 21005 or JMC 28001.

**Schedule Type:** Lecture

**Contact Hours:** 1 lecture

**Grade Mode:** Standard Letter

**JMC 40295 SELECTED TOPICS IN JOURNALISM AND MASS COMMUNICATION 3 Credit Hours**

(Repeatable for credit) (Slashed with JMC 50295) Selected topics of special interest not covered in depth in existing courses; offered as resources permit. A GPA of 2.700 is required in the major.

**Prerequisite:** Advertising, Digital Media Production, Journalism or Public Relations major or minor.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**JMC 41002 ADVANCED ADVERTISING COPYWRITING 3 Credit Hours**

Advanced copywriting projects in print advertising and corporate communications and execution of the entire print advertising campaigns. A GPA of 2.700 is required in the major.

**Prerequisite:** JMC 31002 and 31003 with a minimum C- grade; and minimum 2.000 overall GPA; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**JMC 41003 ADVERTISING ACCOUNT MANAGEMENT 3 Credit Hours**

An introduction to advertising account management including the functions of an account manager, skills required to be an account manager and how to effectively lead a team of professionals. A GPA of 2.700 is required in the major.

**Prerequisite:** JMC 31002 and JMC 31003 with a minimum C- grade; and minimum 2.000 overall GPA; and advertising, digital media production, fashion media, journalism, media literacy, photojournalism, public relations or visual journalism major or minor.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**JMC 41005 ADVERTISING CAMPAIGNS 3 Credit Hours**

Analysis of the planning, financing and execution of an advertising campaign through case study methods. A GPA of 2.700 is required in the major.

**Prerequisite:** JMC 31002 and 31003 with a minimum C- grade; and minimum 2.000 overall GPA; and advertising, digital media production, fashion media, journalism, media literacy, photojournalism, public relations or visual journalism major or minor.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**JMC 41075 POLITICAL ADVERTISING 3 Credit Hours**

Focuses on analyzing the impact of political advertising on key election cohorts. In this course, students will research and profile key demographic cohorts that will substantially impact the outcome of the election and analyze how current political advertising may impact each cohort. This course is a real-time study of key audience groups and in-market advertising and election tactics and as such its focus will change as the issues and population trends change from semester to semester. A 2.70 GPA is required in the major.

**Prerequisite:** JMC 20008 and JMC 21005 with a minimum C- grade; and minimum 2.000 overall GPA; and advertising major or minor.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**JMC 41080 ACTIVATION ADVERTISING 3 Credit Hours**

Activation advertising, or brand activation, is the activation of the consumer for a brand and driving consumer action, typically by getting consumers to experience the brand. In this course students will begin to understand the consumer path-to-purchase and when a consumer becomes a shopper. Using a variety of resources, students will build strategically sound activation programs based on a big idea and relevant consumer and shopper insights. A 2.70 GPA is required in the major.

**Prerequisite:** JMC 20008 and JMC 21005 with a minimum C- grade; and minimum 2.000 overall GPA; and advertising major or minor.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**JMC 41111 FASHION PUBLISHING 3 Credit Hours**

Introduction to 21st Century Fashion publishing. An overview of the evolution of fashion magazines in print and digital formats, magazine entrepreneurs, the editors role, branding, advertising, circulation, writing and production. A GPA of 2.700 is required in the major.

**Prerequisite:** ENTR 27056 or FDM 35280; and JMC 20005 or JMC 26001 or JMC 20004; and minimum 2.000 overall GPA; and fashion media minor.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**JMC 41150 GLOBAL ADVERTISING AND PUBLIC RELATIONS 3 Credit Hours**

Offers students the opportunity to learn about and engage in exploring issues related to advertising and public relations in various markets around the world. This course may involve travel to a destination market. A GPA of 2.700 is required in the major.

**Prerequisite:** Minimum 2.000 overall GPA; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**JMC 41192 PRACTICUM IN ADVERTISING AND PUBLIC RELATIONS (ELR) 3 Credit Hours**

Designed to provide opportunities for students to engage in applied public relations and advertising projects in collaboration with faculty. This can include such things as competitions and practical experiential learning exercises with on-campus organizations. A 2.700 GPA in the major is required.

**Prerequisite:** Special approval.

**Schedule Type:** Practical Experience

**Contact Hours:** 9 other

**Grade Mode:** Standard Letter

**Attributes:** Experiential Learning Requirement

**JMC 42001 SPORTS PHOTOGRAPHY 3 Credit Hours**

Photographing various college events, including action, portraiture and lighting in a variety of outdoor and indoor venues. Photo captioning, image transmission and archiving and ethics. A GPA of 2.700 is required in the major.

**Prerequisite:** JMC 22004 and JMC 32001 with a minimum C- grade; and minimum 2.000 overall GPA; and school of journalism and mass communication major or minor.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**JMC 42008 ADVANCED PHOTO TECHNIQUES 3 Credit Hours**

Discussion of contemporary photojournalists and issues. Production of photo documentary multimedia and illustrations appropriate to photojournalism. Senior portfolio review. A GPA of 2.700 is required in the major.

**Prerequisite:** JMC 22004 with a minimum C- grade; and minimum 2.000 overall GPA.

**Schedule Type:** Laboratory, Lecture

**Contact Hours:** 2 lecture, 2 lab

**Grade Mode:** Standard Letter

**JMC 42092 PRACTICUM IN PHOTOGRAPHY (ELR) 1-3 Credit Hours**

(Repeatable for a total of 10 hours) (Cross-listed with VCD 48092)

Individual or group investigation into student selected areas of photographic field. A GPA of 2.700 is required in the major.

**Prerequisite:** Minimum 2.000 overall GPA; and junior or senior standing; and special approval.

**Schedule Type:** Lecture, Practical Experience

**Contact Hours:** 1-3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Experiential Learning Requirement

**JMC 43035 ADVANCED TELEVISION NEWS PRODUCING 3 Credit Hours**

(Slashed with JMC 53035) Advanced understanding of how to produce news content for broadcast and the web. A GPA of 2.700 is required in the major.

**Prerequisite:** A minimum C- grade in JMC 46003.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**JMC 43036 RECORD PROMOTION 3 Credit Hours**

(Slashed with JMC 53036) Class operates as an independent record label to critique, select, promote, publicize and sell original recorded music. A GPA of 2.700 is required in the major.

**Prerequisite:** Minimum 2.000 overall GPA; and journalism and mass communication or communications studies major.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**JMC 43092 STUDENT MEDIA PRACTICUM IN JOURNALISM (ELR) 1-3 Credit Hours**

(Repeatable for a maximum of 3 credit hours) Performance of assigned activities in student media under student media supervision. A GPA of 2.700 is required in the major.

**Prerequisite:** JMC 20001 or JMC 20003 with a minimum C- grade; and minimum 2.000 overall GPA; and special approval.

**Schedule Type:** Practical Experience

**Contact Hours:** 3-9 other

**Grade Mode:** Standard Letter

**Attributes:** Experiential Learning Requirement

**JMC 44042 REMOTE TELEVISION 3 Credit Hours**

The study and broadcast of remote events including live sports and other non-scripted shows. A GPA of 2.700 is required in the major.

**Prerequisite:** JMC 20011 with a C- grade; and a minimum C- grade in two of the following courses JMC 30036, JMC 33033 or JMC 33043; and minimum 2.000 overall GPA; and school of journalism and mass communication major.

**Schedule Type:** Laboratory, Lecture, Combined Lecture and Lab

**Contact Hours:** 2 lecture, 2 lab

**Grade Mode:** Standard Letter-IP

**JMC 44043 SPORTS FIELD PRODUCTION 3 Credit Hours**

Video shooting and editing of sports packages and short documentaries. This includes player and coach profiles, highlights and lead-ins. A GPA of 2.700 is required in the major.

**Prerequisite:** JMC 23030 and 23031 with a C- grade; and JMC 30004 with a C- grade; and minimum 2.000 overall GPA; and journalism and mass communication major.

**Corequisite:** JMC 44042.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 2 lecture, 2 lab

**Grade Mode:** Standard Letter-IP

**JMC 44050 POST PRODUCTION SOUND 3 Credit Hours**

(Slashed with JMC 54050) Creating post production sound for visual productions including digital cinema, television, and video games. A GPA of 2.700 is required in the major.

**Prerequisite:** JMC 33033 with a minimum C- grade; and JMC 30036 or JMC 33043 with a minimum C- grade; and minimum 2.000 overall GPA; and major within the School of Journalism and Mass Communication.

**Schedule Type:** Laboratory, Lecture, Combined Lecture and Lab

**Contact Hours:** 1 lecture, 4 lab

**Grade Mode:** Standard Letter

**JMC 44055 SUAS AERIAL CINEMATOGRAPHY 3 Credit Hours**

(Slashed with JMC 54055) Prepares interdisciplinary non-aeronautics majors to operate Small Unmanned Aircraft Systems (sUAS) safely and ethically in news gathering, research, cinematography and applied digital sciences.

**Prerequisite:** A minimum C- grade in both JMC 20011 and JMC 23004; and JMC 30036, JMC 33033 or JMC 33043.

**Schedule Type:** Laboratory, Lecture

**Contact Hours:** 1 lecture, 4 lab

**Grade Mode:** Standard Letter

**JMC 44065 MOBILE MULTIMEDIA 3 Credit Hours**

Developing multimedia content for mobile platforms such as smart phones, tablets or other networked mobile devices.

**Prerequisite:** Minimum C- grade in JMC 20006 or JMC 20009 or EMAT 10310.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**JMC 45000 TELEVISION SPORTS GRAPHICS PRODUCTION 3 Credit Hours**

Techniques in creating and preparing TV and video graphics for live sports events. A GPA of 2.700 is required in the major.

**Prerequisite:** JMC 23030 and 23031 with a C- grade; and JMC 30004 as a pre- or co-requisite with a C- grade; and minimum 2.000 overall GPA; and journalism and mass communication major.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter-IP

**JMC 45001 ADVANCED LIGHTING FOR DIGITAL FILM AND TELEVISION 3 Credit Hours**

(Slashed with JMC 55001) Introduction to theory and technique of lighting for video production. Course includes critical analysis of video lighting situations, the various tools available to light various production locations including interviews and multi-camera narrative scenes. A GPA of 2.700 is required in the major.

**Prerequisite:** JMC 20011 with a minimum C- grade; and two from the following courses JMC 30036, JMC 33033 or JMC 33043; and advertising, digital media production, journalism or public relations major.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**JMC 45005 HISTORICAL DOCUMENTARY PRODUCTION 3 Credit Hours**

(Slashed with JMC 55005) Chronicles the evolution of the historical television documentary and demonstrates the step-by-step production process required to create such a program. Students research and assemble a documentary with an overall appreciation of this genre's purpose in both the television industry and the popular culture. A GPA of 2.700 is required in the major.

**Prerequisite:** Minimum 2.000 overall GPA.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**JMC 45006 PRODUCING AND DIRECTING LIVE TELEVISION 3 Credit Hours**

Class examines the steps to produce and direct live television programming. This includes scripted shows such as news, entertainment, and talk shows as well as unscripted shows such as live sports and remote event productions. For homework students are required to work regular evenings as a producer and or director for TV2. A GPA of 2.700 is required in the major.

**Prerequisite:** JMC 33042 and JMC 44042 with a minimum C- grade; and minimum 2.000 overall GPA; and advertising, digital media production, fashion media, journalism, media literacy, photojournalism, public relations or visual journalism major.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**JMC 45007 PRODUCING FOR PICTURE 3 Credit Hours**

A deep and technical look at filmmaking from business, legal, and logistical perspectives. A GPA of 2.700 is required in the major.

**Prerequisite:** JMC 23140 with a minimum C- grade or JMC 30036 and JMC 33043 with a minimum C- grade; and minimum 2.000 overall GPA; and journalism and mass communication major.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**JMC 45010 FEATURE FILM PREPRODUCTION 3 Credit Hours**

(Slashed with JMC 55010) Gives students practical, hands-on experience in the preproduction of a feature length digital film. Students work on script revising, budgeting, location scouting, casting, developing a script breakdown and developing a daily production schedule for the film. A GPA of 2.700 is required in the major.

**Prerequisite:** JMC 20011 with a minimum C- grade; and minimum 2.000 overall GPA; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter



**JMC 45011 FEATURE FILM PRODUCTION 6 Credit Hours**

(Slashed with JMC 55011) Provides students with a practical, hands-on experience in the production process of shooting a feature length digital film. Students work on both the organizational aspects as well as the technical aspects of production. This includes production management, craft services, daily call sheets, directing, lighting, cinematography and location sound recording. A GPA of 2.700 is required in the major.

**Prerequisite:** JMC 20011 with a C- grade; and minimum 2.000 overall GPA; and special approval.

**Schedule Type:** Laboratory, Lecture

**Contact Hours:** 2 lecture, 8 lab

**Grade Mode:** Standard Letter

**JMC 45013 FEATURE FILM POST PRODUCTION 3 Credit Hours**

(Slashed with JMC 55013) Advanced video editing course designed to offer students the experience in the postproduction and finishing of a feature length digital narrative film. Students will refine their technical and aesthetic skills through a combination of practice, reading, presenting, viewing and discussion. Students are assigned specific scenes that they are to complete from string out and assembly cut to fine cut and picture lock. Students then work on sound effects, visual effects, titles or color correction. A GPA of 2.700 is required in the major.

**Prerequisite:** JMC 20011 with a minimum C- grade; and special approval.

**Schedule Type:** Laboratory, Lecture

**Contact Hours:** 2 lecture, 2 lab

**Grade Mode:** Standard Letter

**JMC 45020 AVID EDITOR CERTIFICATION 3 Credit Hours**

(Slashed with JMC 55020) Prepares students to take the official Avid Media Composer MC 101 certification exam. A GPA of 2.700 is required in the major. Students who pass the exam will be certified as Avid Video editors.

**Prerequisite:** JMC 30036 with a minimum C- grade; and minimum 2.000 overall GPA; and advertising, digital media production, fashion media, journalism, media literacy, photojournalism, public relations or visual journalism major or minor.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**JMC 46000 NEWSPAPER DESIGN 3 Credit Hours**

(Slashed with JMC 56000) Design of newspapers from small inside pages to elaborate feature pages. News judgment. Basic information graphics and photo editing.

**Prerequisite:** Minimum C- grade in JMC 26001, JMC 20006 and VCD 37000; and minimum 2.750 overall GPA.

**Schedule Type:** Laboratory, Lecture

**Contact Hours:** 3 lecture, 0 lab

**Grade Mode:** Standard Letter

**JMC 46001 INFORMATION GRAPHICS 3 Credit Hours**

(Slashed with JMC 5600) (Cross-listed with VCD 43007) Introduction to shapes, color type and combinations of these for computer designed news graphics maps charts graphs and diagrams. A GPA of 2.700 is required in the major.

**Prerequisite:** JMC 26001 and COMM 21000 with a minimum C- grade; and advertising, digital media production, fashion media, journalism, media literacy, photojournalism, public relations or visual journalism major or minor.

**Schedule Type:** Laboratory, Lecture, Combined Lecture and Lab

**Contact Hours:** 1 lecture, 4 lab

**Grade Mode:** Standard Letter

**JMC 46003 PRODUCING TELEVISION NEWS 3 Credit Hours**

(Slashed with JMC 56003) Introduction to the theory and practice of producing content for TV news and public affairs programs. Emphasis is placed on understanding news philosophies, storytelling story selection and rundown placement. A GPA of 2.700 is required in the major.

**Prerequisite:** JMC 26008 with a minimum C- grade; and minimum 2.000 overall GPA; and journalism and mass communication major.

**Schedule Type:** Laboratory, Lecture

**Contact Hours:** 2 lecture, 1 lab

**Grade Mode:** Standard Letter

**JMC 46006 OPINION WRITING 3 Credit Hours**

(Slashed with JMC 56006) Instruction and practice in producing columns and editorials for a variety of audiences. Emphasis on research and reporting to produce thoughtful opinion pieces.

**Prerequisite:** JMC 26001.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**JMC 46007 INVESTIGATIVE REPORTING 3 Credit Hours**

(Slashed with JMC 56007) Techniques involved in researching, interviewing and reporting investigative news articles and analyses. A GPA of 2.700 is required in the major.

**Prerequisite:** JMC 26007 with a C- grade or JMC 26008 with a C- grade; and minimum 2.000 overall GPA; and journalism and mass communication major.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**JMC 46009 REPORTING PUBLIC POLICY 3 Credit Hours**

(Slashed with JMC 56009) Instruction and practice in reporting all areas of public affairs, including government and the courts. Use of precision journalism techniques. A GPA of 2.700 is required in the major.

**Prerequisite:** JMC 26007 or 26008 with a C- grade; and minimum 2.000 overall GPA; and journalism and mass communication major.

**Schedule Type:** Laboratory, Lecture, Combined Lecture and Lab

**Contact Hours:** 1 lecture, 4 lab

**Grade Mode:** Standard Letter

**JMC 46016 BUSINESS OF PUBLISHING 3 Credit Hours**

(Slashed with JMC 56016) Overview of publishing in digital and print formats, media entrepreneurship, role of editorial, advertising, circulation, production, branding and social media. A GPA of 2.700 is required in the major.

**Prerequisite:** COMM 21000, JMC 26001 and ENTR 27056 with a minimum C- grade; and minimum 2.000 overall GPA; and journalism and mass communication major; and junior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**JMC 46020 MAGAZINE DESIGN 3 Credit Hours**

(Slashed with JMC 56020) Marriage of words and visuals for designing magazine layouts and covers in desktop publishing. A GPA of 2.700 is required in the major.

**Prerequisite:** A minimum C- grade in JMC 26001.

**Schedule Type:** Laboratory, Lecture, Combined Lecture and Lab

**Contact Hours:** 1 lecture, 4 lab

**Grade Mode:** Standard Letter



**JMC 46021 ADVANCED MAGAZINE WRITING 3 Credit Hours**

(Slashed with JMC 56021) Research, interviewing writing and marketing of major magazine articles. Also editing techniques for magazines. A GPA of 2.700 is required in the major.

**Prerequisite:** JMC 36005 and 36018 with a minimum C- grade; and minimum 2.000 overall GPA.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**JMC 46052 ADVANCED BROADCAST REPORTING 3 Credit Hours**

(Slashed with JMC 56052) Advanced study of reporting news stories, newsroom operations, editing and producing broadcast news programs. Advanced projects in broadcast news. A GPA of 2.700 is required in the major.

**Prerequisite:** JMC 26008 with a C- grade; and minimum 2.000 overall GPA.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**JMC 46054 BROADCAST DOCUMENTARY 3 Credit Hours**

(Slashed with JMC 56054) Development of documentary form for radio and television. Analysis and production of documentaries. Utilization of audio and video recording and editing. A GPA of 2.700 is required in the major.

**Prerequisite:** JMC 26008 or two of the following: JMC 33033, JMC 33034, JMC 33042, JMC 33043 with a minimum C- grade; and minimum 2.000 overall GPA.

**Schedule Type:** Laboratory, Lecture

**Contact Hours:** 2 lecture, 2 lab

**Grade Mode:** Standard Letter

**JMC 46055 DOCUMENTARY AND ENTREPRENEURIAL PHOTOGRAPHY 3 Credit Hours**

Exploring techniques that allow students desiring to make a difference in the world with their visual story-telling skills and make a living. Students work with local and regional non-profits and non-governmental agencies to develop photo reports and increase visibility and understanding with still and multimedia. A GPA of 2.700 is required in the major.

**Prerequisite:** JMC 32001, JMC 32005 and ENTR 27056 with a minimum C- grade; and minimum 2.000 overall GPA; and school of journalism and mass communication major or minor.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**JMC 46057 MOTION GRAPHICS FOR VIDEO EDITING 3 Credit Hours**

(Slashed with JMC 56057) Covers the creation of motion graphics for video editing from the perspective of a professional editor. Students learn basic video effects such as digital matte creation and layered graphics for video productions. Students also gain a basic understanding of how to convert and compress video files for various deliverable formats.

Adobe After Effects is the industry standard software application for creating motion graphics and will be used extensively in the course. A GPA of 2.700 is required in the major.

**Prerequisite:** JMC 20011 with a minimum C- grade; and a minimum C- grade in two of the following courses JMC 30036, JMC 33033 or JMC 33043; and minimum 2.000 overall GPA; and advertising, digital media production, journalism or public relations major.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**JMC 46091 NEW YORK MEDIA SEMINAR 3 Credit Hours**

Introduction of students to the New York media, the thinking of industry professionals and the job opportunities in the city. Students attend presentations by media professionals and seminars to discuss media based in New York City. A GPA of 2.700 is required in the major.

**Prerequisite:** Minimum 2.000 overall GPA; and sophomore, junior or senior standing in the college of communication and information; and special approval.

**Schedule Type:** Seminar

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**JMC 46395 SPECIAL TOPICS IN JOURNALISM PRACTICE 3 Credit Hours**

(Repeatable three times for credit) Special topics in journalism practice.

**Prerequisite:** Special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**JMC 47003 TEACHING HIGH SCHOOL JOURNALISM 3 Credit Hours**

Methods and materials for teaching journalism in high school.

**Prerequisite:** Junior or senior standing; and special approval of instructor.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**JMC 48001 MEDIA RELATIONS AND PUBLICITY (WIC) 3 Credit Hours**

(Slashed with JMC 58001) Planning and preparation of materials for use by the news media, both on paper and online. The course explores the media relations function along with the uses and limitations of mass media in public relations practice. A GPA of 2.700 is required in the major.

**Prerequisite:** JMC 26001; and JMC 26007 or 26008; and JMC 38002 all with a C- grade; and minimum 2.000 overall GPA; and journalism and mass communication major.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Writing Intensive Course

**JMC 48002 PUBLIC RELATIONS TACTICS 3 Credit Hours**

(Slashed with JMC 58002) Planning and preparation of face-to-face public relations tactics, including spokesperson training for on- and off-camera appearances, special event planning, speeches and presentations with visual support and other applications of 'writing for the ear.' A minimum 2.700 major GPA is required.

**Prerequisite:** JMC 26001 and JMC 38002 with a minimum C grade; and minimum 2.000 overall GPA.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**JMC 48003 DIGITAL PUBLIC RELATIONS 3 Credit Hours**

(Slashed with JMC 58003) Explores fundamentals of web site planning and design and provides hands-on skills development using the full range of cybermedia techniques. Includes emphasis on writing for online audiences. A GPA of 2.700 is required in the major.

**Prerequisite:** JMC 20008, JMC 26001, JMC 26007 or JMC 26008, JMC 28001, JMC 31007 and JMC 38002 with minimum C- grades; and 2.000 overall GPA.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**JMC 48006 PUBLIC RELATIONS PUBLICATIONS 3 Credit Hours**  
(Slashed with JMC 58006) Planning, writing and design of organizational publications including newsletters brochures flyers promotional mailers and web sites. Course also explores the print production process. A GPA of 2.700 is required in the major.

**Prerequisite:** JMC 26001 with a C- grade; and public relations major or minor.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**JMC 48091 SEMINAR: PUBLIC RELATIONS CAMPAIGNS 3 Credit Hours**

(Repeatable for credit) This capstone course in the public relations major requires student teams to combine research, planning and execution into a single public relations campaign developed for a real world organization. A GPA of 2.700 is required in the major.

**Prerequisite:** JMC 26007 or 26008; and JMC 38002; and three of the four--JMC 48001 and 48002 and 48003 and 48006 all with a C- grade; and minimum 2.000 overall GPA.

**Schedule Type:** Seminar

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**JMC 49005 MUSIC VIDEO PRODUCTION 3 Credit Hours**

(Slashed with JMC 59005) Teaches the process of producing and directing a music video. It covers the history of music videos and how some become movies as well as writing a script, storyboarding, working with rough cuts and shooting a music video. Students also learn how to create and pitch proposals.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**JMC 49021 CORPORATE VIDEO 3 Credit Hours**

(Slashed with JMC 59021) The use of video in corporate and organizational environments. Emphasis is placed on the structure and function of the medium within each environment. A GPA of 2.700 is required in the major.

**Prerequisite:** Two of the following: JMC 33033 and 33042 and 33043 with a minimum C- grade; and minimum 2.000 overall GPA; and journalism and mass communication major.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**JMC 49099 PRODUCTION II (ELR) 3 Credit Hours**

Facilitates the completion of a digital film or television project. A GPA of 2.700 is required in the major.

**Prerequisite:** A minimum C- grade in either JMC 23140 or JMC 45007; and senior standing.

**Schedule Type:** Laboratory, Lecture, Project or Capstone

**Contact Hours:** 1 lecture, 4 lab

**Grade Mode:** Standard Letter-IP

**Attributes:** Experiential Learning Requirement

**JMC 50002 REPORTING FOR MASS MEDIA 3 Credit Hours**

(Slashed with JMC 40002) Theory and practice in newswriting and reporting; news values and news judgment; lead and story development; techniques of gathering information and dealing with sources of news; writing for deadline. Hours do not count toward degree.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**JMC 50003 EDITING FOR MASS MEDIA 3 Credit Hours**

Theory and practice in copy editing, headline writing and editing photographs and information graphics for print and on-line publications. Hours do not count toward degree.

**Prerequisite:** JMC 50002; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**JMC 50004 COMPUTER-ASSISTED REPORTING 3 Credit Hours**

Computer analysis of large data sets focusing on government, court, police records, for preparation of news stories, basics of on-line searching; software and databases.

**Prerequisite:** JMC 50002; and graduate standing.

**Schedule Type:** Laboratory, Lecture

**Contact Hours:** 3 lecture, 0 lab

**Grade Mode:** Standard Letter

**JMC 50006 LAW OF MASS COMMUNICATION 3 Credit Hours**

Libel and slander; privacy, copyright, obscenity; regulation of advertising and broadcasting; antitrust law and mass media; legal problems reporting courts, legislatures; taxation, licensing.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**JMC 50007 REVIEWING THE ARTS 2 Credit Hours**

Reviewing and criticism of performing, visual and literary arts. Emphasis on books, film, TV and theater.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**JMC 50012 ONLINE JOURNALISM 3 Credit Hours**

Study and evaluation of online news and news sites; reporting and writing for online news media; design, production and maintenance of an online news site; ethical, legal and economic issues related to online news.

**Prerequisite:** JMC 50002; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**JMC 50013 TELEVISION SPORTS PRODUCTION 3 Credit Hours**

A comprehensive study of the production of live action television sports coverage.

**Prerequisite:** Journalism and mass communication major; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**JMC 50015 MEDIA MARKETPLACE 3 Credit Hours**

A study of administrative problems, methods, procedures in the management of media corporations.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**JMC 50016 LAW FOR ADVERTISING AND PUBLIC RELATIONS 3 Credit Hours**

Regulation of advertising and public relations; first amendment; libel and privacy; legal problems of new media; research in persuasive media.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**JMC 50017 MEDIA ENTERPRISE 3 Credit Hours**

(Slashed with JMC 40017) Explores methods to build and sustain organizations that market and monetize multimedia content to targeted audiences through appropriate distribution streams. Through case studies, examination of evolving best practices in media organizations and elsewhere, students will study and apply enterprise thinking. Other CCI majors outside of JMC can enroll in the course with special approval from the JMC graduate coordinator.

**Prerequisite:** Journalism and mass communication major; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**JMC 50020 AUDIO AND STILL PHOTO PRODUCTION 3 Credit Hours**

Develop skills in telling journalistic stories by producing multimedia news stories through research and planning; reporting using digital cameras and digital audio recorders; editing photos and audio.

**Prerequisite:** Journalism and mass communication major; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**JMC 50023 NON-TRADITIONAL JOURNALISM 3 Credit Hours**

The study of journalistic writing that goes beyond the inverted pyramid and traditional feature story and has topics traditionally not defined as news. Students will also work as part of a team on multi-part stories.

**Prerequisite:** Journalism and mass communication major; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**JMC 50027 MANAGING MEDIA DIVERSITY 3 Credit Hours**

Aspects of diversity and how it changes our environment with emphasis on the field of mass communication.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**JMC 50030 COLLABORATIVE ONLINE PRODUCING 3 Credit Hours**

The use of multimedia and interactive storytelling rules such as video, audio and graphics. Students work in teams to produce packages for online news sites and organizational videos.

**Prerequisite:** Journalism and mass communication major; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture, 2 lab

**Grade Mode:** Standard Letter

**JMC 50037 SCRIPTWRITING FOR VIDEO AND FILM 3 Credit Hours**

The emphasis of the course is on writing dramatic scripts for broadcast or motion pictures. The course also includes current perspectives on market needs.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**JMC 50193 VARIABLE TITLE WORKSHOP IN JOURNALISM AND MASS COMMUNICATION 1-3 Credit Hours**

(Repeatable for credit) Intensive study of professional issues and problems in various areas of mass communication, utilizing the expertise of faculty and professionals in the field.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Workshop

**Contact Hours:** 1-3 other

**Grade Mode:** Satisfactory/Unsatisfactory

**JMC 50201 PUBLIC RELATIONS PRACTICE: PUBLIC AFFAIRS 1 Credit Hour**

(Slashed with JMC 40201) Provides a basic understanding of the public affairs role in public relations. It specifically examines how external factors surrounding an organization can trigger disruption, opportunity, change, adaptation, and evolution. Students explore techniques for anticipating, managing, adapting, or changing those forces. Primary attention is paid to environmental scanning, issue and stakeholder identification and management, lobbying, advocacy, and ethical implications of public policy.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 1 lecture

**Grade Mode:** Standard Letter

**JMC 50202 PUBLIC RELATIONS PRACTICE: CRISIS COMMUNICATION 1 Credit Hour**

(Slashed with JMC 40202) Provides a basic understanding of the best practices of crisis planning, preparation, communication and management. The course will focus on the critical capabilities, team work and decision making skills required of public relations practitioners during periods of intense organizational turbulence, crisis, and reputational threat across numerous stakeholder groups, including internal, external, public, private and legislative audiences.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 1 lecture

**Grade Mode:** Standard Letter

**JMC 50295 SELECTED TOPICS IN JOURNALISM AND MASS COMMUNICATION 3 Credit Hours**

(Repeatable for credit) (Slashed with JMC 40295) Selected topics of special interest not covered in depth in existing courses; offered as resources permit.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**JMC 53035 ADVANCED TELEVISION NEWS PRODUCING 3 Credit Hours**

Advanced understanding of how to produce news content for broadcast and the web.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**JMC 53036 RECORD PROMOTION 3 Credit Hours**

(Slashed with JMC 43036) Class operates as an independent record label to critique, select, promote, publicize and seal original recorded music.

**Prerequisite:** Journalism and mass communication major; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**JMC 53042 STUDIO TELEVISION 3 Credit Hours**

Study of all positions of a live television program including technical directing, floor directing, graphics, digital playback, and audio engineering. Two hours lecture and two hours lab.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Laboratory, Lecture

**Contact Hours:** 2 lecture, 2 lab

**Grade Mode:** Standard Letter

**JMC 54050 POST PRODUCTION SOUND 3 Credit Hours**

(Slashed with JMC 44050) Creating post production sound for visual productions including digital cinema and television.

**Prerequisite:** Journalism and mass communication major; and graduate standing; and special approval.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 2 lecture, 2 lab

**Grade Mode:** Standard Letter

**JMC 54055 SUAS AERIAL CINEMATOGRAPHY 3 Credit Hours**

(Slashed with JMC 44055) Prepares interdisciplinary non-aeronautics majors to operate Small Unmanned Aircraft Systems (sUAS) safely and ethically in news gathering, research, cinematography and applied digital sciences.

**Prerequisite:** Graduate standing.

**Schedule Type:** Laboratory, Lecture

**Contact Hours:** 1 lecture, 4 lab

**Grade Mode:** Standard Letter

**JMC 55001 ADV LIGHTING DIGITAL FILM/TV 3 Credit Hours**

(Slashed with JMC 45001) Introduction to theory and technique of lighting for video production. Includes critical analysis of video lighting situations, the various tools available to light various production locations including interviews and multi-camera narrative scenes.

**Prerequisite:** Journalism and mass communication major; and graduate standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**JMC 55005 HISTORICAL DOCUMENTARY PRODUCTION 3 Credit Hours**

Chronicles the evolution of the historical television documentary and demonstrates the step-by-step production process required to create such a program. Students research and assemble a documentary with an overall appreciation of this genre's purpose in both the television industry and the popular culture.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**JMC 55010 FEATURE FILM PREPRODUCTION 3 Credit Hours**

(Slashed with JMC 45010) Gives students practical, hands-on experience in the preproduction of a feature length digital film. Students work on script revising, budgeting, location scouting, casting, developing a script breakdown, and developing a daily production schedule for the film. Graduate students are expected to take a leadership position in the preproduction of the film.

**Prerequisite:** Journalism and mass communication major; and graduate standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**JMC 55011 FEATURE FILM PRODUCTION 6 Credit Hours**

(Slashed with JMC 45011) Provides students with a practical, hands-on experience in the production process of shooting a feature length digital film. Students will study the theory of film making and work on both the organizational and managerial aspects as well as the technical aspects of production. This includes production management, craft services, daily call sheets, directing, lighting, cinematography and location sound recording.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Laboratory, Lecture

**Contact Hours:** 2 lecture, 8 lab

**Grade Mode:** Standard Letter

**JMC 55013 FEATURE FILM POST PRODUCTION 3 Credit Hours**

(Slashed with JMC 45013) Advanced Video editing course designed to offer students the experience in the postproduction and finishing of a feature length digital narrative film. The students will refine their technical and aesthetic skills through a combination of practice, reading, presenting, viewing and discussion. Students are assigned specific scenes that they are to complete from string out and assembly cut to fine cut and picture lock. Students work on sound effects, visual effects, titles or color correction. In addition, graduate students assume a leadership position.

**Prerequisite:** Journalism and mass communication major; and graduate standing; and special approval.

**Schedule Type:** Laboratory, Lecture

**Contact Hours:** 2 lecture, 2 lab

**Grade Mode:** Standard Letter



**JMC 55020 AVID EDITOR CERTIFICATION 3 Credit Hours**

Prepares students to take the official Avid Media Composer MC 101 certification exam. Students who pass the exam will be certified as Avid video editors.

**Prerequisite:** Journalism and mass communication major; and graduate standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**JMC 55051 REPORTING BROADCAST NEWS 3 Credit Hours**

Gathering and preparing broadcast news, with emphasis on unique style and presentation methods of broadcast media. Use of both audio and video recorders and editing equipment.

**Prerequisite:** JMC 50002; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**JMC 56000 NEWSPAPER DESIGN 3 Credit Hours**

Design of newspapers from small inside pages to elaborate feature pages. News judgment. Basic information graphics and photo editing.

**Prerequisite:** JMC 50003; and graduate standing.

**Schedule Type:** Laboratory, Lecture

**Contact Hours:** 3 lecture, 0 lab

**Grade Mode:** Standard Letter

**JMC 56001 INFORMATION GRAPHICS 3 Credit Hours**

Introduction to shapes, color, type and combinations of these for computer-designed news graphics: maps, charts, graphs and diagrams.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Laboratory, Lecture, Combined Lecture and Lab

**Contact Hours:** 1 lecture, 4 lab

**Grade Mode:** Standard Letter

**JMC 56003 PRODUCING TELEVISION NEWS 3 Credit Hours**

(Slashed with JMC 46003) Knowledge of the theory and practice of producing content for TV news and public affairs programs. Emphasis is placed on understanding news philosophies, storytelling story selection and rundown placement.

**Prerequisite:** JMC 55051; and journalism and mass communication major; and graduate standing.

**Schedule Type:** Laboratory, Lecture

**Contact Hours:** 2 lecture, 1 lab

**Grade Mode:** Standard Letter

**JMC 56006 OPINION WRITING 3 Credit Hours**

(Slashed with JMC 56006) Instruction and practice in producing columns and editorials for a variety of audiences. Emphasis on research and reporting to produce thoughtful opinion pieces.

**Prerequisite:** JMC 66011; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**JMC 56007 INVESTIGATIVE REPORTING 3 Credit Hours**

(Slashed with JMC 46007) Techniques involved in researching, interviewing and reporting investigative news articles and analyses.

**Prerequisite:** JMC 50002; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**JMC 56009 REPORTING PUBLIC POLICY 3 Credit Hours**

Instruction and practice in reporting all areas of public affairs, including government and the courts. Use of precision journalism techniques.

**Prerequisite:** JMC 50002; and graduate standing.

**Schedule Type:** Laboratory, Lecture, Combined Lecture and Lab

**Contact Hours:** 1 lecture, 4 lab

**Grade Mode:** Standard Letter

**JMC 56016 BUSINESS OF PUBLISHING 3 Credit Hours**

(Slashed with JMC 46016) Overview of publishing in digital and print formats, media entrepreneurship, role of editorial, advertising, circulation, production, branding and social media.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**JMC 56018 FEATURE WRITING 3 Credit Hours**

Researching, writing and placement of feature stories in publications.

**Prerequisite:** JMC 50002; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**JMC 56020 MAGAZINE DESIGN 3 Credit Hours**

Marriage of words and visuals for designing magazine layouts and covers in desktop publishing.

**Prerequisite:** JMC 50002; JMC 50003; JMC 56016; and graduate standing.

**Schedule Type:** Laboratory, Lecture, Combined Lecture and Lab

**Contact Hours:** 1 lecture, 4 lab

**Grade Mode:** Standard Letter

**JMC 56021 ADVANCED MAGAZINE WRITING 3 Credit Hours**

Research, interviewing, writing and marketing of major magazine articles. Also editing techniques for magazines.

**Prerequisite:** JMC 50002 and JMC 50003; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**JMC 56052 ADVANCED BROADCAST REPORTING 3 Credit Hours**

(Slashed with JMC 46052) Advanced study of reporting news stories, newsroom operations editing and producing broadcast news programs. Advanced projects in broadcast news.

**Prerequisite:** JMC 55051 or JMC 56054; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**JMC 56054 BROADCAST DOCUMENTARY 3 Credit Hours**

Development of the documentary form for radio/TV; analysis, production of radio/ TV documentary; utilization of audio/video recording/editing.

**Prerequisite:** JMC 55051.

**Schedule Type:** Laboratory, Lecture

**Contact Hours:** 3 lecture, 0 lab

**Grade Mode:** Standard Letter



**JMC 56057 MOTION GRAPHICS FOR VIDEO EDITING 3 Credit Hours**

Covers the creation of motion graphics for video editing from the perspective of a professional editor. Students learn basic video effects such as digital matte creation and layered graphics for video productions. Students also gain a basic understanding of how to convert and compress video files for various deliverable formats. Adobe After Effects is the industry standard software application for creating motion graphics and will be used extensively in this course.

**Prerequisite:** Journalism and mass communication major; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**JMC 56091 NEW YORK MEDIA SEMINAR 3 Credit Hours**

Introduction of students to the New York media, the thinking of industry professionals and the job opportunities in the city. Students will attend presentations by media professionals and seminars to discuss media based in New York City.

**Prerequisite:** Graduate standing in the college of communication and information.

**Schedule Type:** Seminar

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**JMC 57003 TEACHING HIGH SCHOOL JOURNALISM 3 Credit Hours**

Methods and materials for teaching journalism in high school.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**JMC 58001 MEDIA RELATIONS AND PUBLICITY 3 Credit Hours**

Planning and preparation of materials for use by news media, both on paper and Online. Analysis of media relations function and media relations strategies. Uses and limitations of mass media in public relations practice.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**JMC 58002 PUBLIC RELATIONS TACTICS 3 Credit Hours**

(Slashed with JMC 48002) Planning and preparation of face-to-face public relations tactics, including spokesperson training for on- and off-camera appearances, special event planning, speeches and presentations with visual support and other applications of 'writing for the ear.'

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**JMC 58003 DIGITAL PUBLIC RELATIONS 3 Credit Hours**

Explore fundamentals of web site planning and design and provide hands-on skills development using the full range of cyber media techniques. Includes emphasis on writing for online audiences.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**JMC 58006 PUBLIC RELATIONS PUBLICATIONS 3 Credit Hours**

Planning, writing and design of organizational publications including newsletters, brochures, fliers and promotional materials.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**JMC 59005 MUSIC VIDEO PRODUCTION 3 Credit Hours**

(Slashed with JMC 49005) Teaches the process of producing and directing a music video. It covers the history and social impact of music videos. It includes some research into this social impact. Also storyboarding, scriptwriting, working with rough cuts, shooting a video, creating and pitching proposals.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**JMC 59021 CORPORATE VIDEO 3 Credit Hours**

The use of video in the legal, medical and corporate environments. Emphasis is placed on the structure and function of the medium within each environment.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**JMC 60000 INTRODUCTION TO GRADUATE STUDIES IN JOURNALISM AND MASS COMMUNICATION 3 Credit Hours**

An introductory survey of the various areas of professional and scholarly concentration in the fields of journalism and mass communication. Consideration of the relationship between professional practice and scholarly activity in those fields.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**JMC 60001 THEORY OF MASS COMMUNICATION 3 Credit Hours**

(Slashed with JMC 60001) Introduction to theory of mass communication, with emphasis on the process and effects of mass communication.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**JMC 60002 LEGAL PROBLEMS IN MASS COMMUNICATION 3 Credit Hours**

Case studies related to the first amendment, libel, invasion of privacy, regulation of broadcasting and new media copyright, and access to information. Course focus will be the theories underlying these issues as well as practical application of the legal concepts.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**JMC 60003 TEACHING JOURNALISM ETHICS 3 Credit Hours**

Study of ethical problems of mass media in society; analysis of media policies; performance evaluation.

**Prerequisite:** Journalism and mass communication major; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**JMC 60004 CYBERMEDIA LAW 3 Credit Hours**

Investigates how the law affects those who gather information and publish online, including issues relating to blogging, web site hosting, posting and online journalism, along with a basic ability to apply that knowledge in specific situations. Focus is on both existing law and developing public policy.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**JMC 60007 RESEARCH METHODS IN MASS COMMUNICATION 3 Credit Hours**

(Slashed with JMC 80007) Investigates social science methods applicable to the study of mass communication, including survey, content analysis, experimental, and focus group approaches. Emphasis is on original and secondary data collection, data analysis, and interpreting and reporting research results for scholarly and lay audiences.

**Prerequisite:** Journalism and mass communication major; and graduate standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**JMC 60009 SOCIAL ROLE OF THE MASS MEDIA 3 Credit Hours**

Application of professional, theoretical, historical, economic and political perspectives to examine the role of mass media in society both in terms of structure and function.

**Prerequisite:** Journalism and mass communication major; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**JMC 60010 QUALITATIVE RESEARCH IN JOURNALISM AND MASS COMMUNICATION: DATA COLLECTION 3 Credit Hours**

(Slashed with JMC 80010) Designed to develop skills in qualitative data collection in journalism and mass communication with primary focus on human subjects and textual data.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**JMC 60011 THEORY AND SOCIETAL ROLE OF MASS MEDIA 3 Credit Hours**

(Slashed with JMC 80011) Review theories of the processes and effects of mass communication and how these apply to the work of media professionals or those in the scholastic and collegiate journalism teaching environment. Examines origins, nature, consequences of mass communication and mediated interactions.

**Prerequisite:** Journalism mass communication major; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**JMC 60012 MASS COMMUNICATION LAW AND ETHICS 3 Credit Hours**

(Slashed with JMC 80012) General overview of issues and problems in mass communication law and ethics including libel, privacy, copyright, intellectual property, regulation of advertising and broadcasting, ethical decision making, ethical decision-making tools and a simple overview of ethics theory.

**Prerequisite:** Journalism mass communication major; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**JMC 60015 ADVANCED MEDIA MANAGEMENT 3 Credit Hours**

Theory and practice of management operations and problem-solving techniques specifically related to media companies. Emphasis will be using case studies from the media.

**Prerequisite:** JMC 50015; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**JMC 60021 LITERARY JOURNALISM 3 Credit Hours**

Research, interviewing, writing and marketing major magazine articles for online and print publications.

**Prerequisite:** JMC 50002; and graduate standing; or special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**JMC 60040 QUALITATIVE RESEARCH METHODS IN JOURNALISM AND MASS COMMUNICATION: DATA ANALYSIS 3 Credit Hours**

Emphasizes the development of skills in the analysis of data collected through qualitative research methods, particularly interviews and ethnographies. Designed to help prepare graduate students who plan to use qualitative methods in their academic or applied research, particularly those who are adopting these methods for theses or dissertations.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**JMC 60096 INDIVIDUAL INVESTIGATION IN MASS COMMUNICATION 1-3 Credit Hours**

(Repeatable for a maximum of 6 credit hours) Individual investigation of selected area or problem approved by graduate faculty.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Individual Investigation

**Contact Hours:** 1-3 other

**Grade Mode:** Standard Letter-IP

**JMC 60098 RESEARCH 1-15 Credit Hours**

(Repeatable for credit) Research or individual investigation for master's level graduate students. Credits earned may be applied toward meeting degree requirements if school approves. Maximum of 3 hours may be applied to degree if school approves.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Research

**Contact Hours:** 1-15 other

**Grade Mode:** Satisfactory/Unsatisfactory

**JMC 60195 SPECIAL TOPICS SEMINAR 1-3 Credit Hours**

(Repeatable for credit) Study of important topics in mass communication. Offered irregularly in response to existing interests and opportunities.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 1-3 lecture

**Grade Mode:** Standard Letter-IP

**JMC 60196 READINGS IN MASS COMMUNICATIONS 1-3 Credit Hours**

(Repeatable for credit) Student pursues course of readings approved by instructor to cover subject specialty student cannot obtain from formal course offerings.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Individual Investigation

**Contact Hours:** 1-3 other

**Grade Mode:** Standard Letter-IP

**JMC 60199 THESIS I 2-6 Credit Hours**

Thesis students must register for a total of 6 hours, 2 to 6 hours in single semester distributed over several semesters if desired.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Masters Thesis

**Contact Hours:** 2-6 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**JMC 60295 SPECIAL TOPICS IN COMPUTER LAB 1-3 Credit Hours**

(Repeatable for credit) Selected topics of special interest not covered in depth in existing courses; offered as resources permit.

**Prerequisite:** Special approval.

**Schedule Type:** Laboratory

**Contact Hours:** 1-3 lab

**Grade Mode:** Standard Letter

**JMC 60296 ADVANCED READINGS IN JOURNALISM AND MASS COMMUNICATION 3 Credit Hours**

(Repeatable for credit) Consolidation and synthesis of learning experiences in the graduate program. Application of graduate study to future professional careers. Updates on latest developments in the fields of JMC and their impact on the future of academic study and professional practice in the discipline.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Individual Investigation

**Contact Hours:** 3 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**JMC 60299 THESIS II 2 Credit Hours**

Thesis student must continue registration each semester until all degree requirements are met.

**Prerequisite:** JMC 60199; and graduate standing.

**Schedule Type:** Masters Thesis

**Contact Hours:** 2 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**JMC 60396 MASTER'S PROFESSIONAL PROJECT 3 Credit Hours**

Completion and defense of a substantial professional project in one of the fields of journalism and mass communication.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Individual Investigation

**Contact Hours:** 3 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**JMC 60701 ADVISING STUDENT MEDIA 3 Credit Hours**

A high school journalism adviser should advise and not do student work or act as editor. This is not easy because of pressure both inside and outside the school. This course helps advisers learn how to create and maintain good relationships with all involved, understand press law and the need for an effective editorial policy, appreciate the role of the high school press, motivate students and help them make ethical decisions, find proper resources and organizations available to help them. Those who complete the course should be able to direct their students to put out a publication that demonstrates students' understanding of the First Amendment and their understanding of the role of the student press in a free society.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**JMC 61001 PRINCIPLES AND PRACTICES OF DIGITAL MEDIA 3 Credit Hours**

Explores the history and philosophies of online communities and what makes them work. Examines how professionals integrate digital thinking into an organization's communication. Covers best practices for producing social media content that will lead to effective engagement.

**Prerequisite:** Journalism and mass communication major; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**JMC 64036 DIGITAL VIDEO EDITING 3 Credit Hours**

Focus is on editing workflow and techniques for both non-fiction and fiction video production.

**Prerequisite:** Journalism and mass communication major; and graduate standing; and special approval.

**Schedule Type:** Laboratory, Lecture, Combined Lecture and Lab

**Contact Hours:** 2 lecture, 2 lab

**Grade Mode:** Standard Letter

**JMC 65660 POLITICAL COMMUNICATION 3 Credit Hours**

(Cross-listed with COMM 65660 and COMM 75660) An examination of political communication theory and research. Content includes approaches to political communication, role of the media in politics and analysis of political messages.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**JMC 66010 SPECIALIZED REPORTING 3 Credit Hours**

Newsgathering techniques in specialty areas such as politics, labor, medicine, business and technology techniques of team reporting.

**Prerequisite:** JMC 56009 and JMC 55051; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**JMC 66011 REPORTING, WRITING AND EDITING FOR MEDIA 3 Credit Hours**

Foundation course for all students covering how to gather, write and edit content to tell stories across multiple media platforms. Students will practice interviewing and research techniques, structuring work in a variety of formats and polishing grammar, usage and AP Style.

**Prerequisite:** Journalism and mass communication major; and graduate standing; and special approval.

**Schedule Type:** Laboratory, Lecture, Combined Lecture and Lab

**Contact Hours:** 2 lecture, 2 lab

**Grade Mode:** Standard Letter

**JMC 66092 INTERNSHIP IN JOURNALISM AND MASS COMMUNICATION 1-3 Credit Hours**

(Repeatable for credit) Experience in a department or company involving supervised professional responsibilities in journalism and mass communication. Minimum 150 hours of work for each credit hour.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Practical Experience

**Contact Hours:** 1-3 other

**Grade Mode:** Standard Letter-IP

**JMC 67073 WEB DEVELOPMENT FOR HIGH SCHOOL JOURNALISM EDUCATORS 2 Credit Hours**

Basic terminology and structure of online content management systems and how they can be utilized for online student journalism and media in high school. This course covers system functionality and structure, as well as orientation of students to the management system. Aspects of high school administration and legal issues will be covered along with site design and user experience.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**JMC 67075 TEACHING MULTIMEDIA 3 Credit Hours**

Online introduction to recognizing and producing some of the basic linear and non-linear journalistic multimedia tools used for storytelling for the Web, including audio, video, and photo slideshows. Students will also be introduced to data and mapping visualization tools, timelines and DX codes to enhance storytelling.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**JMC 67076 TEACHING BROADCAST JOURNALISM 3 Credit Hours**

Deals with the base knowledge that a teacher needs to begin teaching broadcast journalism. This includes modules on cultivating student broadcast journalism, project-based instruction, as well as one on legalities and ethics along with production skills. While the primary focus is on teaching technique, class participants are given basic journalism content in order to review, learn and or focus on teaching methods for that same material.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**JMC 67079 TEACHING PHOTO EDITING 2 Credit Hours**

Utilization of current photo editing software provides users with powerful tools to acquire, manipulate, and output a variety of images, from fine art to instructional and web graphics. The focus of this course is learning the fundamental operations and controls of industry standard photo editing software and dialogue concerning various issues in teaching and learning photo editing software.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**JMC 67083 TEACHING NEWS DESIGN 3 Credit Hours**

Provides an introduction to the components of news content and design.

This includes type and typography, printing processes, photography, illustration, the thought process in creating a news product and further introductions in the developing field of visual journalism.

Shows journalism educators how a student media staff can effectively communicate with readers through visual elements.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**JMC 67085 TEACHING PHOTOJOURNALISM 3 Credit Hours**

Examines the components of photojournalism and prepares instructors to teach those components to their students. In addition to traditional assignments and projects, instructors and students maintain a weekly dialog. Students gain the following skills necessary to teach their classes: basic operation of a digital camera, essential components of good photography, how to capture images that tell a story, strategies for covering news, features and sporting events as well as portraits and group shots, strategies for organizing and archiving images and ethical practices for capturing images and using them in publication work.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**JMC 67087 ADVISING YEARBOOK 3 Credit Hours**

Students gain contextual information regarding yearbook roles in history and memory along with practical skills for recruitment, staff organization, staffing and production, and incorporating the creation of the yearbook into a classroom setting.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**JMC 68000 PUBLIC RELATIONS THEORY AND PROCESS 3 Credit Hours**

Introduces students to the profession of public relations by exploring both the theories and the processes employed by PR practitioners.

Course also explores the history and social role of public relations as well as ethics and social responsibility.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**JMC 68001 PUBLIC RELATIONS MANAGEMENT 3 Credit Hours**

(Slashed with JMC 88001) Perspectives, skills needed to manage an organization's PR function, particularly strategic planning, implementation and evaluation. Emphasis on managerial aspects of negotiating organizational relationships with the public.

**Prerequisite:** JMC 68000; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**JMC 68004 SOCIAL MEDIA AND PUBLIC RELATIONS 3 Credit Hours**

Provides an in-depth study of social media and public relations, emphasizing how the two are used by organizations to build stronger relations with consumers, media, analysts, and others.

**Prerequisite:** JMC 68000 and JMC 68001; and graduate standing in journalism and mass communication.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**JMC 68005 STRATEGIC WRITING AND MESSAGING IN PUBLIC RELATIONS 3 Credit Hours**

Focuses on public relations writing and strategic messaging, a critical foundational skill. Course content includes skill building in online channels and across traditional mediums.

**Prerequisite:** JMC 68000 and JMC 68001; and graduate standing in journalism and mass communication.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**JMC 68006 VALUES AND ETHICS MANAGEMENT IN PUBLIC RELATIONS 3 Credit Hours**

Explores the theory and application of ethics in public relations. Examines case studies, ethics theory, values and management thought.

**Prerequisite:** JMC 68000 and 68001; and journalism and mass communication major; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**JMC 68008 PUBLIC RELATIONS MEASUREMENT AND RETURN ON INVESTMENT 3 Credit Hours**

Examines the strategic and tactical processes for measuring outcomes in public relations campaigns.

**Prerequisite:** JMC 68000 and 68001; and journalism and mass communication major; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**JMC 68009 PUBLIC RELATIONS HISTORY AND THE MODERN WORLD 3 Credit Hours**

Examines development of Public Relations as a profession, focusing on the Twentieth Century. Detailed study of historical case studies, campaigns and initiatives.

**Prerequisite:** JMC 68000 and JMC 68001; and graduate student in journalism and mass communication.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**JMC 68010 PUBLIC RELATIONS INTERNAL COMMUNICATIONS 3 Credit Hours**

Explores strategies and tactics of internal communications. Includes development of organizational intranets and other employee-focused communications channels with special emphasis on social media to communicate public relations messages.

**Prerequisite:** JMC 68000 and JMC 68001; and journalism and mass communication major; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**JMC 68011 FINANCIAL ISSUES IN PUBLIC RELATIONS 3 Credit Hours**

Focuses on financial topics related to a career in public relations, particularly the role of communicators in the growing field of investor relations.

**Prerequisite:** JMC 68000 and JMC 68001; and graduate student in journalism and mass communication.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**JMC 80001 THEORY OF MASS COMMUNICATION 3 Credit Hours**

(Slashed with JMC 60001) Introduction to theory of mass communication with emphasis on the process and effects of mass communication.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**JMC 80004 CYBERMEDIA LAW 3 Credit Hours**

Investigates how the law affects those who gather information and publish online, including issues relating to blogging, web site hosting, posting and online journalism, along with a basic ability to apply that knowledge in specific situations. Focus is on both existing law and developing public policy.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**JMC 80007 RESEARCH METHODS IN MASS COMMUNICATION 3 Credit Hours**

(Slashed with JMC 60007) Investigates social science methods applicable to the study of mass communication, including survey, content analysis, experimental, and focus group approaches. Emphasis is on original and secondary data collection, data analysis, and interpreting and reporting research results for scholarly and lay audiences.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**JMC 80010 QUALITATIVE RESEARCH IN JOURNALISM AND MASS COMMUNICATION: DATA COLLECTION 3 Credit Hours**

(Slashed with JMC 60010) Designed to develop skills in qualitative data collection in journalism and mass communication with primary focus on human subjects and textual data.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter



**JMC 80011 THEORY AND SOCIETAL ROLE OF MASS MEDIA 3 Credit Hours**

(Slashed with JMC 60011) Review theories of the processes and effects of mass communication and how these apply to the work of media professionals or those in the scholastic and collegiate journalism teaching environment. Examines origins, nature, consequences of mass communication and mediated interactions.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**JMC 80012 MASS COMMUNICATION LAW AND ETHICS 3 Credit Hours**

(Slashed with JMC 60012) General overview of issues and problems in mass communication law and ethics including libel, privacy, copyright, intellectual property, regulation of advertising and broadcasting, ethical decision making, ethical decision-making tools and a simple overview of ethics theory.

**Prerequisite:** A major within the college of communication and information; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**JMC 80040 QUALITATIVE RESEARCH METHODS IN JOURNALISM AND MASS COMMUNICATION: DATA ANALYSIS 3 Credit Hours**

Emphasizes the development of skills in the analysis of data collected through qualitative research methods, particularly interviews and ethnographies. Designed to help prepare graduate students who plan to use qualitative methods in their academic or applied research, particularly those who will be adopting these methods for theses or dissertations.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**JMC 80195 SPECIAL TOPICS IN JOURNALISM AND MASS COMMUNICATION 3 Credit Hours**

(Repeatable for credit) Study of important topics in mass communication. Offered irregularly in response to existing interests and opportunities.

**Prerequisite:** Doctoral standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**JMC 88001 PUBLIC RELATIONS MANAGEMENT 3 Credit Hours**

(Slashed with JMC 68001) Perspectives, skills needed to manage an organization's PR function, particularly strategic planning, implementation and evaluation. Emphasis on managerial aspects of negotiating organizational relationships with the public.

**Prerequisite:** A major within the college of communication and information; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

## School of Information

### Health Informatics (HI)

**HI 41095 SPECIAL TOPICS IN HEALTH INFORMATICS 1-3 Credit Hours**

(Repeatable for credit) Topics could include current or emerging issues in health informatics. Topics will be announced in schedule of classes. Offered irregularly as resources and opportunities permit.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 1-3 lecture

**Grade Mode:** Standard Letter

**HI 41096 INDIVIDUAL INVESTIGATION IN HEALTH INFORMATICS 1-3 Credit Hours**

(Repeatable for credit) Research or individual investigation in areas not covered in the existing curriculum for baccalaureate level students at or above the junior level. In-progress (IP) mark permissible.

**Prerequisite:** Special approval.

**Schedule Type:** Individual Investigation

**Contact Hours:** 3-9 other

**Grade Mode:** Standard Letter-IP

**HI 60401 HEALTH INFORMATICS MANAGEMENT 3 Credit Hours**

Covers the areas encompassing health informatics management including the planning, selection, deployment, and management of electronic medical records (EMR), management decision-support and tracking systems (DSS), and other health information technologies (HIT).

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HI 60402 LEGAL ISSUES IN HEALTH INFORMATICS 3 Credit Hours**

(Slashed with HI 80402) Introduction to the fundamentals of law for Health Informatics and Information Management. Elements of the course include general legal principles and healthcare; legal electronic medical records (EMR); Health Insurance Portability and Accountability Act (HIPAA) privacy rules and security rules; access, requests and disclosure of health information; required reporting and mandatory disclosure laws; risk management and quality improvement; compliance; workforce overview; related ethics and social issues.

**Prerequisite:** Graduate standing.

**Pre/corequisite:** HI 60401.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HI 60403 HEALTH INFORMATION SYSTEMS 3 Credit Hours**

(Slashed with HI 80403) Introduction to information systems and their applications in healthcare used for managerial and clinical support. Study the fundamentals of information systems, including Electronic Medical Records (EMR), information security. Understand the role of standardized codes, vocabularies and terminologies used in health information systems. Analysis of management and enterprise systems, identify the key elements to manage information resources effectively and the trends affecting the development of health information systems and networks.

**Prerequisite:** Graduate standing.

**Pre/corequisite:** HI 60401.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HI 60410 HEALTH RECORDS MANAGEMENT 3 Credit Hours**

(Slashed with HI 80410) Conceptual foundations and practicum for health records management, including the planning, implementation and operation of electronic medical records (EMR); the management of EMR in management and enterprise systems; identifying, selecting and evaluating EMR and health information systems, applications, and repositories; and issues of data quality, integrity, migration, and interoperability.

**Prerequisite:** Graduate standing.

**Pre/corequisite:** HI 60401.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HI 60411 CLINICAL ANALYTICS 3 Credit Hours**

(Slashed with HI 80411) The use of well-defined and well-integrated clinical analytics throughout the healthcare value chain can be transformative. Through careful implementation of health analytics, hospitals can transform unwieldy amalgamations of data into information that can: improve patient outcomes, increase safety, enhance operational efficiency and support public health. Given the immense size of the data challenge, the distinctness and geographic spread of many healthcare-related activities, and the fact that so many healthcare activities are conducted by different entities which must interact with each other, there is really no other way to provide operations management tools necessary to deliver personalized medicine and to control spiraling costs. Since clinical analytics is an immature discipline, we carefully examine the practices of those institutions who are standard setters in the industry.

**Prerequisite:** Graduate standing.

**Pre/corequisite:** HI 60401.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HI 60412 CLINICAL DECISION SUPPORT 3 Credit Hours**

Provides a practical survey of clinical decision support systems that collect clinical data and enable the transition to clinical knowledge in real world applications intended to improve quality and safety of patient care. Students become familiar with the basic requirements for clinical decision support systems and the challenges associated with the development and deployment of new applications within the healthcare setting.

**Prerequisite:** HI 60401; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HI 60413 CHANGE MANAGEMENT IN HEALTH INFORMATICS 3 Credit Hours**

(Slashed with HI 80413) Designed to cover the process of change management in large healthcare organizations in light of current trends. Topics related to technology requirements, technology implementations, risk assessment and buy-in are among those covered.

**Prerequisite:** HI 60401; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HI 60414 HUMAN FACTORS AND USABILITY IN HEALTH INFORMATICS 3 Credit Hours**

(Slashed with HI 80414) Provides students with the foundational principles of usability and human factors as applied to safety and quality in health informatics technology. Course readings and materials review the concepts of human factors, usability and the cognitive consequences of health information technology on clinical performance and decision making. Attention is given to the role of mobile computing in health care, as well as information visualization.

**Prerequisite:** Graduate standing.

**Pre/corequisite:** HI 60401.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HI 60415 HEALTH INFORMATICS INQUIRY AND ASSESSMENT 3 Credit Hours**

(Slashed with HI 80415) Provides a foundation for understanding research in health informatics with a focus on user and experience design research. Through lectures, readings, discussions and assignments, students review user research methods, data collection techniques and communication strategies within the healthcare context. Students then apply this knowledge to creating a research plan for assessing health information technology and communicating results to key organizational stakeholders.

**Prerequisite:** HI 60401 with a minimum C grade; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HI 60416 HEALTH INFORMATICS ISSUES: POLICY, POLITICS AND ETHICS 3 Credit Hours**

This course uses a policy analysis lens to critically examine issues related to the use of information technology in healthcare from an ethical, political and regulatory perspective. The primary focus will be on the United States, but international approaches will also be discussed. Legislation affecting Health Information Technology area will be examined including the American Reinvestment and Recovery Act, HITECH section; Affordable Care Act and Health Insurance Portability and Accountability Act (HIPAA) of 1996. Topics and issues related to Health Informatics including structure of health administrative and delivery systems, assessment of population health, models of health care delivery, access and quality of care will also be discussed.

**Prerequisite:** HI 60401; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HI 60417 PUBLIC HEALTH INFORMATICS 3 Credit Hours**

Public Health Informatics (PHI) is an emergent, interdisciplinary field that focuses on the systematic management and dynamic application of information resources to enhance public health practice, education and research. As an emerging subset of Health Informatics, PHI is practiced by individuals, governmental and nongovernmental organizations at the international, national, regional, state and local levels. PHI deals with the collection and analysis of vital statistics data through surveillance; information creation; information storage and retrieval; visualization and graphics; dissemination; use of information for policy, decision making and trend tracking. The purpose of this course is to provide students with an introductory overview of the vast and dynamic field of PHI, including definitions, approaches, competencies, applications and informatics principles applied in public health settings.

**Prerequisite:** HI 60401 or HI 80401; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HI 60418 CLINICAL ANALYTICS II 3 Credit Hours**

As the volume and complexity of health data continues to grow, analysis of that data requires more advanced tools to transform that data into meaningful information for clinical decisions. Not only is data from electronic medical records (EMRs) growing at a rapid pace but new types of data are available for analysis, such as, genomic data and patient generated data. These advanced analytic tools break down into three areas, each of which will be examined in this course: new data warehousing techniques to manage big data, new analytic tools including cognitive computing and predictive analytics and new ways to visualize the data. All of these techniques transform the raw data into use cases, such as, population health, precision medicine and clinical decision support using artificial intelligence and machine learning which will also be addressed in this course.

**Prerequisite:** HI 60411; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HI 60636 STANDARDIZED TERMINOLOGIES IN HEALTHCARE 3 Credit Hours**

Introduce various types of standardized healthcare terminologies (controlled vocabularies) used in the Electronic Health Records (EHR) and Health Information Exchange (HIE). Present the benefits of using standardized terminologies, as well as the interoperability and Meaningful Use (MU) requirements and standards. Explain the purposes, structures, components, and application of the most widely implemented standardized terminologies such as ICD, CPT, SNOMED CT, LOINC, RxNorm, ICNP, and UMLS.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HI 60691 SEMINAR IN HEALTH INFORMATICS 1-3 Credit Hours**

(Repeatable for credit). Advanced research by students who are qualified to examine problems of certain special areas related to concentrations of study in health informatics.

**Prerequisite:** Graduate standing.

**Schedule Type:** Seminar

**Contact Hours:** 1-3 other

**Grade Mode:** Standard Letter

**HI 60693 VARIABLE TITLE WORKSHOP IN HEALTH INFORMATICS****1-3 Credit Hours**

(Repeatable for credit). Intensive examination of special topics of interest to those involved in health informatics program. Maximum workshop credit for the health informatics program is 4 credit hours.

**Prerequisite:** Graduate standing.

**Schedule Type:** Workshop

**Contact Hours:** 1-3 other

**Grade Mode:** Satisfactory/Unsatisfactory

**HI 60792 ELECTIVE INTERNSHIP IN HEALTH INFORMATICS 2-3 Credit Hours**

Supervised work experience in health informatics of a professional nature of not less than 100 clock hours (for 2 credit hours) or 150 clock hours (for 3 credit hours) with directed preparation of a reflection paper.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Practical Experience

**Contact Hours:** 2-3 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**HI 61095 SPECIAL TOPICS IN HEALTH INFORMATICS 1-3 Credit Hours**

(Repeatable for credit) Offered irregularly as resources and or opportunities permit. Topics could include current or emerging issues in health informatics. Specific topics are announced in the Schedule of Classes.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 1-3 lecture

**Grade Mode:** Standard Letter

**HI 61096 INDIVIDUAL INVESTIGATION IN HEALTH INFORMATICS 1-3 Credit Hours**

(Repeatable for credit) Research or individual investigation in areas not covered by the existing curriculum for master's level students. Maximum 6 credit hours towards the health informatics major within the Master of Science degree.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Individual Investigation

**Contact Hours:** 3-9 other

**Grade Mode:** Standard Letter-IP

**HI 66092 MASTER'S INTERNSHIP IN HEALTH INFORMATICS 3 Credit Hours**

Supervised work experience of an advanced professional nature that concentrates on developing skills in areas of health informatics and integrates their knowledge from all HI courses and experiences. Students must have completed a minimum of 30 credit hours towards the health informatics major within the master of science degree.

**Prerequisite:** HI 60401, HI 60402, HI 60403, HI 60410, HI 60411, KM 60301 and LIS 60636; and minimum 3.000 overall GPA; and special approval.

**Schedule Type:** Practical Experience

**Contact Hours:** 10 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**HI 66098 MASTER'S PROJECT IN HEALTH INFORMATICS 3 Credit Hours**

Provides a means for the application of the knowledge, research and competencies learned through study in health informatics to the development of an information system, product, setting or service. Students must have completed a minimum 30 credit hours towards the MS-HI program prior to registration.

**Prerequisite:** HI 60401, HI 60402, HI 60403, HI 60410, HI 60411, KM 60301 and LIS 60636; and minimum overall 3.000 GPA; and special approval.

**Schedule Type:** Master's Project

**Contact Hours:** 3 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**HI 66198 MASTER'S RESEARCH PAPER IN HEALTH INFORMATICS 3 Credit Hours**

Under the advisement of a faculty member, students will complete a research paper that serves as a culminating experience for the M.S.-HI degree. Cumulative GPA of 3.000 is required prior to enrolling in the course. Students must have completed a minimum of 30 credit hours the MS-HI program prior to registration.

**Prerequisite:** HI 60401, HI 60402, HI 60403, HI 60410, HI 60411, KM 60301 and LIS 60636; and minimum 3.000 overall GPA; and graduate standing; and special approval.

**Schedule Type:** Master's Project

**Contact Hours:** 3 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**HI 66199 THESIS I 2-6 Credit Hours**

Thesis students must register for a total of 6 hours, 2 to 6 hours in a single semester distributed over several semesters if desired. Students must have completed a minimum 30 credit hours towards the MS-HI program prior to registration.

**Prerequisite:** HI 60401, HI 60402, HI 60403, HI 60410, HI 60411, KM 60301 and LIS 60636; and minimum 3.000 overall GPA; and graduate standing; and special approval.

**Schedule Type:** Masters Thesis

**Contact Hours:** 2-6 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**HI 66299 THESIS II 2 Credit Hours**

Thesis students must continue registration each semester until all degree requirements are met.

**Prerequisite:** HI 66199; and graduate standing; and special approval.

**Schedule Type:** Masters Thesis

**Contact Hours:** 2 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**HI 80401 HEALTH INFORMATICS MANAGEMENT 3 Credit Hours**

Covers the areas encompassing Health informatics management including the planning, selection, deployment, and management of electronic medical records (EMR), management decision-support and tracking systems (DSS), and other health information technologies (HIT).

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HI 80402 LEGAL ISSUES IN HEALTH INFORMATICS 3 Credit Hours**

(Slashed with HI 60402) Introduction to the fundamentals of law for Health Informatics and Information Management. Elements of the course include general legal principles and healthcare; legal electronic medical records (EMR); Health Insurance Portability and Accountability Act (HIPAA) privacy rules and security rules; access, requests and disclosure of health information; required reporting and mandatory disclosure laws; risk management and quality improvement; compliance; workforce overview; related ethics and social issues.

**Prerequisite:** HI 80401; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HI 80403 HEALTH INFORMATION SYSTEMS 3 Credit Hours**

(Slashed with HI 60403) Introduction to information systems and their applications in healthcare used for managerial and clinical support. Study the fundamentals of information systems, including Electronic Medical Records (EMR), information security. Understand the role of standardized codes, vocabularies and terminologies used in health information systems. Analysis of management and enterprise systems, identify the key elements to manage information resources effectively and the trends affecting the development of health information systems and networks.

**Prerequisite:** HI 80401; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HI 80410 HEALTH RECORDS MANAGEMENT 3 Credit Hours**

(Slashed with HI 60410) Conceptual foundations and practicum for health records management, including the planning, implementation and operation of electronic medical records (EMR); the management of EMR in management and enterprise systems; identifying, selecting and evaluating EMR and health information systems, applications, and repositories; and issues of data quality, integrity, migration, and interoperability.

**Prerequisite:** HI 80401; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HI 80411 CLINICAL ANALYTICS 3 Credit Hours**

(Slashed with HI 60411) The use of well-defined and well integrated clinical analytics throughout the healthcare value chain can be transformative. Through careful implementation of health analytics, hospitals can transform unwieldy amalgamations of data into information that can: Improve patient outcomes, increase safety, enhance operational efficiency and support public health. Given the immense size of the data challenge, the distinctness and geographic spread of many healthcare-related activities, and the fact that so many healthcare activities are conducted by different entities which must interact with each other, there is really no other way to provide operations management tools necessary to deliver personalized medicine and to control spiraling costs. Since clinical analytics is an immature discipline, we carefully examine the practices of those institutions who are standard setters in the industry.

**Prerequisite:** HI 80401; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HI 80412 CLINICAL DECISION SUPPORT 3 Credit Hours**

(Slashed with HI 60412) Provides a practical survey of clinical decision support systems that collect clinical data and enable the transition to clinical knowledge in real world applications intended to improve quality and safety of patient care. Students become familiar with the basic requirements for clinical decision support systems and the challenges associated with the development and deployment of new applications within the healthcare setting.

**Prerequisite:** HI 80401; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HI 80413 CHANGE MANAGEMENT IN HEALTH INFORMATICS 3 Credit Hours**

(Slashed with HI 60413) Designed to cover the process of change management in large healthcare organizations in light of current trends. Topics related to technology requirements, technology implementations, risk assessment, end user computing and buy-in are among those covered.

**Prerequisite:** HI 80401 with a minimum C grade; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HI 80414 HUMAN FACTORS AND USABILITY IN HEALTH INFORMATICS 3 Credit Hours**

(Slashed with HI 60414) Provides students with the foundational principles of usability and human factors as applied to safety and quality in health informatics technology. Course readings and materials review the concepts of human factors, usability, and the cognitive consequences of health information technology on clinical performance and decision making. Attention is given to the role of mobile computing in health care, as well as information visualization.

**Prerequisite:** HI 80401 with a minimum grade of C; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HI 80415 HEALTH INFORMATICS INQUIRY AND ASSESSMENT 3 Credit Hours**

(Slashed with HI 60415) This course will provide a foundation for understanding research in health informatics with a focus on user and experience design research. Through course lectures, readings, discussions and assignments, students will review user research methods, data collection techniques and communication strategies within the healthcare context. Students will then apply this knowledge to creating a research plan for assessing health information technology and communicating results to key organizational stakeholders.

**Prerequisite:** HI 80401 with a minimum C grade; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HI 80417 PUBLIC HEALTH INFORMATICS 3 Credit Hours**

Public Health Informatics (PHI) is an emergent, interdisciplinary field that focuses on the systematic management and dynamic application of information resources to enhance public health practice, education and research. As an emerging subset of Health Informatics, PHI is practiced by individuals, governmental and nongovernmental organizations at the international, national, regional, state and local levels. PHI deals with the collection and analysis of vital statistics data through surveillance; information creation; information storage and retrieval; visualization and graphics; dissemination; use of information for policy, decision making and trend tracking. The purpose of this course is to provide students with an introductory overview of the vast and dynamic field of PHI, including definitions, approaches, competencies, applications and informatics principles applied in public health settings.

**Prerequisite:** HI 60401 or HI 80401; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HI 80691 SEMINAR IN HEALTH INFORMATICS 1-3 Credit Hours**

(Repeatable for credit) Advanced research by students who are qualified to examine problems of certain special areas related to concentrations of study in health informatics.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Seminar

**Contact Hours:** 1-3 other

**Grade Mode:** Standard Letter

**HI 81095 SPECIAL TOPICS IN HEALTH INFORMATICS 1-3 Credit Hours**

(Repeatable for credit) Offered irregularly as resources and or opportunities permit. Topics could include current or emerging issues in health informatics. Specific topics are announced in the Schedule of Classes.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 1-3 lecture

**Grade Mode:** Standard Letter

**HI 81096 INDIVIDUAL INVESTIGATION IN HEALTH INFORMATICS 1-3 Credit Hours**

Research or individual investigation for doctoral level students.

**Prerequisite:** Doctoral standing; and special approval.

**Schedule Type:** Individual Investigation

**Contact Hours:** 3-9 other

**Grade Mode:** Standard Letter-IP

**Knowledge Management (KM)****KM 41095 SPECIAL TOPICS IN KNOWLEDGE MANAGEMENT 1-3 Credit Hours**

(Repeatable for credit) Topics could include current or emerging issues in knowledge management. Topics will be announced in schedule of classes. Offered irregularly as resources and opportunities permit.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 1-3 lecture

**Grade Mode:** Standard Letter



**KM 41096 INDIVIDUAL INVESTIGATION IN KNOWLEDGE MANAGEMENT 1-3 Credit Hours**

(Repeatable for credit) Research or individual investigation in areas not covered in the existing curriculum for baccalaureate level students at or above the junior level.

**Prerequisite:** Special approval.

**Schedule Type:** Individual Investigation

**Contact Hours:** 3-9 other

**Grade Mode:** Standard Letter-IP

**KM 60301 FOUNDATIONAL PRINCIPLES OF KNOWLEDGE MANAGEMENT 3 Credit Hours**

(Slashed with KM 80301) This course covers an introduction to: historical roots for knowledge and knowledge management; theories/definitions of knowledge; theories, applications tools and practices of KM; Knowledge Management Life-Cycle Framework and Models; significant issues in KM– best practices, culture, economics, strategy, intellectual capital, sustainable innovation.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**KM 60303 KNOWLEDGE ASSESSMENT AND EVALUATION 3 Credit Hours**

(Slashed with KM 80303) Explores all aspects of effective knowledge management within all types of organizations. Lays out the context for knowledge management – at each multiple levels (strategic, technical, business-aligned, and individual) and across all competencies. Covers theory, practice and methods of assessment and evaluation for all levels and all competencies. Provides an introduction to knowledge strategy formulation and planning, knowledge management maturity modeling, knowledge typologies and audits, knowledge mapping, organizational network analysis, knowledge competency mapping and human capital analytics, strategic workforce planning concepts, internal knowledge markets and incentives, community of practice metrics, organizational culture metrics.

**Prerequisite:** KM 60301; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**KM 60304 THE INFORMATION AND KNOWLEDGE ECONOMY 3 Credit Hours**

Covers theories of information and knowledge economy. The focus of the course is on information and the new information and digital economy, consumer behavior and production theory; the demand for information; information as a factor of production; information costs and pricing. Case studies in the information industry are explored.

**Prerequisite:** Graduate standing.

**Pre/corequisite:** KM 60301.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**KM 60305 COMMUNITIES OF PRACTICE 3 Credit Hours**

(Slashed with KM 80305) Explores collaboration and communities from both a theoretical and a practical perspective. The theory includes structural elements (defining a community identity, scoping the domain, defining practice), and natural lifecycles, and best practices for cultivating communities. On the practical side, students explore strategic placement of communities, the community development process, community design and implementation, and measuring the impacts of communities on intellectual capital creation. Communities of practice are also discussed in the context of digital ecosystems (Web 2.0 and Web 3.0). Utilizes readings and reviews of real life case studies of communities of practice in education, health care and nursing, disaster management, military sciences, and hobbies and craft circles. Students also complete a course project pertaining to community of practice evaluation.

**Prerequisite:** KM 60301; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**KM 60307 ORGANIZATIONAL LEARNING 3 Credit Hours**

Addresses organizational learning in fast-paced, complex and changing organizational environments. For knowledge organizations in the 21st century, learning is a continuous activity. To survive and grow, a knowledge organization must learn through its people, its groups and the organization as a whole. The capacity to learn is a competitive advantage for a knowledge organization. Covers the fundamental theory of organizational learning, organizational learning types, and the five disciplines of learning organizations, and factors that facilitate or impede organizational learning.

**Prerequisite:** KM 60301; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**KM 60310 INTELLECTUAL CAPITAL MANAGEMENT 3 Credit Hours**

This course encompasses the new knowledge-intensive economic units: human capital and social capital intellectual assets, intellectual property, brands and trademarks. A 'lifecycle' approach for intellectual assets is described– creation, codification, valuation, protection and leveraging of intellectual assets for competitive advantage.

**Prerequisite:** KM 60301 with a minimum C grade; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**KM 60311 BUSINESS PROCESS MANAGEMENT 3 Credit Hours**

(Slashed with KM 80311) Introduction to business process management and workflow management. BPM will describe how organizational business processes (internal, external, manual and automated) can be transformed and managed to increase efficiency, effectiveness and positively affect performance. Topics include the discovery, analysis, modeling and automation of workflow processes.

**Prerequisite:** KM 60301 with a minimum C grade; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**KM 60312 BUSINESS INTELLIGENCE-COMPETITIVE INTELLIGENCE 3 Credit Hours**

An introduction to strategic intelligence consisting of competitive and business intelligence. Strategic intelligence is an art, science and craft. Businesses and governments require effective intelligence programs, processes and tools to track businesses competitors, markets and trends by acquiring, creating, managing and disseminating intelligence knowledge.

**Prerequisite:** KM 60301 with a minimum C grade; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**KM 60315 FOUNDATIONS OF DOCUMENT MANAGEMENT 3 Credit Hours**

Covers three main themes: Principles, which covers the document and records management conceptual framework, relationships with information policy, definitions and industry standards; Practices, which covers the management and procedural framework for effective planning and implementation of document and records management solutions; Technologies, which provides a business-oriented analysis of the nature of the enabling information systems available to support effective document and records management solutions.

**Prerequisite:** Graduate standing.

**Pre/corequisite:** KM 60301.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**KM 60316 ORGANIZATIONAL CULTURE ASSESSMENT 3 Credit Hours**

Examines different types of cultures and how each type influences a knowledge organization - how culture influences the way knowledge workers work, how they make decisions and how they behave, the internal cultures of groups and communities, the cultural attributes of knowledge workers which may impact their knowledge behaviors. Organizational cultures of multicultural, global and virtual organizations are covered. Students conduct an organizational culture assessment.

**Prerequisite:** Graduate standing.

**Pre/corequisite:** KM 60301.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**KM 60340 BUSINESS NARRATIVE AND STORYTELLING 3 Credit Hours**

(Slashed with KM 80340) Focuses on the business use of storytelling and narrative intelligence. Narrative intelligence is the ability to make sense of the world through narrative and storytelling. Business narrative helps a knowledge organization to strengthen its organizational visions, to enhance communications, to capture and transfer knowledge, externalize and internalize tacit knowledge, encourage innovation, build communities, and develop effective training, mentoring and learning strategies. Business narrative is the primary way that procedural knowledge is understood and shared. Covers oral and written stories, documentaries, oral histories, organizational myths and legends, case scenarios, training scenarios, encoded and embedded business rules, gossip and business conversations. Students learn how to develop business stories, craft and deliver a springboard story, evaluate narrative architectures, and design systems that support access to business narratives and stories.

**Prerequisite:** KM 60301; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**KM 60370 SEMANTIC ANALYSIS METHODS AND TECHNOLOGIES 3 Credit Hours**

(Slashed with KM 80370) Introduces students to the practical contexts, methods and tools associated with semantic analysis. Focuses on early life cycle aspects of semantics, including identification and modeling of semantic problems, design of semantic solutions, and the identification and implementation of appropriate semantic technologies. Covers natural language processing, rule-based and grammar based concept extraction, rule-based and dynamic classification and automated summarization. Students work with a variety of semantic technologies.

**Prerequisite:** KM 60301 or EMAT 64210 or MIS 64036; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**KM 60691 SEMINAR IN KNOWLEDGE MANAGEMENT 1-3 Credit Hours**

(Repeatable for credit) Advanced research by students who are qualified to examine problems of certain special areas related to concentrations of study in knowledge management.

**Prerequisite:** Graduate standing.

**Schedule Type:** Seminar

**Contact Hours:** 1-3 other

**Grade Mode:** Standard Letter

**KM 60693 VARIABLE TITLE WORKSHOP IN KNOWLEDGE MANAGEMENT 1-3 Credit Hours**

(Repeatable for credit) Intensive examination of special topics of interest to those involved in knowledge management. Maximum number of workshop credits for the MS-KM degree is 4 semester hours.

**Prerequisite:** Graduate standing.

**Schedule Type:** Workshop

**Contact Hours:** 1-3 other

**Grade Mode:** Satisfactory/Unsatisfactory

**KM 60792 ELECTIVE INTERNSHIP IN KNOWLEDGE MANAGEMENT****2-3 Credit Hours**

Supervised work experience in knowledge management of a professional nature of not less than 100 clock hours (for 2 credit hours) or 150 clock hours (for 3 credit hours) with directed preparation of a reflection paper.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Practical Experience

**Contact Hours:** 6-10 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**KM 61095 SPECIAL TOPICS IN KNOWLEDGE MANAGEMENT 1-3****Credit Hours**

(Repeatable for credit) Offered irregularly as resources and or opportunities permit. Topics could include current or emerging issues in knowledge management. Specific topics are announced in the Schedule of Classes.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 1-3 lecture

**Grade Mode:** Standard Letter

**KM 61096 INDIVIDUAL INVESTIGATION IN KNOWLEDGE****MANAGEMENT 1-3 Credit Hours**

(Repeatable for credit) Research or individual investigation in areas not covered in the existing curriculum for master's level students. Maximum credit towards master's degree: 6 hours.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Individual Investigation

**Contact Hours:** 3-9 other

**Grade Mode:** Standard Letter-IP

**KM 66092 MASTER'S INTERNSHIP IN KNOWLEDGE MANAGEMENT****3 Credit Hours**

Supervised work experience of an advanced professional nature that concentrates on developing skills in areas of knowledge management and integrates their knowledge from all KM courses and experiences.

Students must have completed 30 credit hours towards the MS-KM program prior to registration.

**Prerequisite:** KM 60301, KM 60303, KM 60304, KM 60305, KM 60307 and LIS 60636; and a minimum 3.000 overall GPA; and graduate standing; and special approval.

**Schedule Type:** Practical Experience

**Contact Hours:** 9 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**KM 66098 MASTER'S PROJECT IN KNOWLEDGE MANAGEMENT 3****Credit Hours**

Provides a means for the application of the knowledge, research and competencies learned through study in knowledge management to the development of an information system, product, setting or service.

Students must have completed a minimum of 30 credit hours prior to enrolling in the course.

**Prerequisite:** KM 60301, KM 60303, KM 60304, KM 60305, KM 60307 and LIS 60636; and minimum 3.000 overall GPA; and graduate standing; and special approval.

**Schedule Type:** Master's Project

**Contact Hours:** 3 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**KM 66198 MASTER'S RESEARCH PAPER IN KNOWLEDGE****MANAGEMENT 3 Credit Hours**

Under the advisement of a faculty member, students will complete a research paper that serves as a culminating experience for the M.S.-KM program. Students must have completed a minimum of 30 credit hours towards the MS-KM program prior to registration.

**Prerequisite:** KM 60301, KM 60303, KM 60304, KM 60305, KM 60307 and LIS 60636; and minimum 3.000 overall GPA; and graduate standing; and special approval.

**Schedule Type:** Master's Project

**Contact Hours:** 3 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**KM 66199 THESIS I 2-6 Credit Hours**

Thesis students must register for a total of 6 hours, 2 to 6 hours in a single semester distributed over several semesters if desired. Students must have completed a minimum of 30 credit hours towards the MS-KM program prior to registration.

**Prerequisite:** KM 60301, KM 60303, KM 60304, KM 60305, KM 60307 and LIS 60636; and minimum 3.000 overall GPA; and graduate standing; and special approval.

**Schedule Type:** Masters Thesis

**Contact Hours:** 2-6 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**KM 66299 THESIS II 2 Credit Hours**

Thesis students must continue registration each semester until all degree requirements are met.

**Prerequisite:** KM 66199; and graduate standing; and special approval.

**Schedule Type:** Masters Thesis

**Contact Hours:** 2 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**KM 80301 FOUNDATIONAL PRINCIPLES OF KNOWLEDGE****MANAGEMENT 3 Credit Hours**

(Slashed with KM 60301) This course covers an introduction to: historical roots for knowledge and knowledge management; theories/definitions of knowledge; theories, applications, tools, and practices of KM; Knowledge Management Life-Cycle Framework and Models; significant issues in KM - best practices, culture, economics, strategy, intellectual capital, sustainable innovation.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**KM 80303 KNOWLEDGE ASSESSMENT AND EVALUATION 3 Credit****Hours**

(Slashed with KM 60303) Explores all aspects of effective knowledge management within all types of organizations. Lays out the context for knowledge management – at each multiple levels (strategic, technical, business-aligned, and individual) and across all competencies. Covers theory, practice and methods of assessment and evaluation for all levels and all competencies. Provides an introduction to knowledge strategy formulation and planning, knowledge management maturity modeling, knowledge typologies and audits, knowledge mapping, organizational network analysis, knowledge competency mapping and human capital analytics, strategic workforce planning concepts, internal knowledge markets and incentives, community of practice metrics, organizational culture metrics.

**Prerequisite:** KM 80301; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**KM 80305 COMMUNITIES OF PRACTICE 3 Credit Hours**

(Slashed with KM 60305) Explores collaboration and communities from both a theoretical and a practical perspective. The theory includes structural elements (defining a community identity, scoping the domain, defining practice), and natural lifecycles, and best practices for cultivating communities. On the practical side, students explore strategic placement of communities, the community development process, community design and implementation, and measuring the impacts of communities on intellectual capital creation. Communities of practice are also discussed in the context of digital ecosystems (Web 2.0 and Web 3.0). Utilizes readings and reviews of real life case studies of communities of practice in education, health care and nursing, disaster management, military sciences, and hobbies and craft circles. Students also complete a course project pertaining to community of practice evaluation.

**Prerequisite:** KM 80301; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**KM 80307 ORGANIZATIONAL LEARNING 3 Credit Hours**

(Slashed with KM 60307) Addresses organizational learning in fast-paced, complex and changing organizational environments. For knowledge organizations in the 21st century, learning is a continuous activity. To survive and grow, a knowledge organization must learn through its people, its groups and the organization as a whole. The capacity to learn is a competitive advantage for a knowledge organization. Covers the fundamental theory of organizational learning, organizational learning types, and the five disciplines of learning organizations, and factors that facilitate or impede organizational learning.

**Prerequisite:** KM 80301; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**KM 80310 INTELLECTUAL CAPITAL MANAGEMENT 3 Credit Hours**

(Slashed with KM 60310) This course encompasses the new knowledge-intensive economic units: human capital and social capital intellectual assets, intellectual property, brands, and trademarks. A 'lifecycle' approach for intellectual assets is described - creation, codification, valuation, protection and leveraging of intellectual assets for competitive advantage.

**Prerequisite:** KM 80301 with a minimum C grade; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**KM 80311 BUSINESS PROCESS MANAGEMENT 3 Credit Hours**

(Slashed with KM 60311) Introduction to business process management and workflow management. BPM will describe how organizational business processes, (internal, external, manual and automated), can be transformed and managed to increase efficiency, effectiveness and positively affect performance. Topics include the discovery, analysis, modeling and automation of workflow processes.

**Prerequisite:** KM 80301 with a minimum C grade; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**KM 80312 BUSINESS INTELLIGENCE-COMPETITIVE INTELLIGENCE 3 Credit Hours**

(Slashed with KM 60312) An introduction to strategic intelligence consisting of competitive and business Intelligence. Strategic intelligence is an art, science, and craft. Businesses and governments require effective intelligence programs, processes, and tools to track businesses, competitors, markets and trends by acquiring, creating, managing, packaging, and disseminating intelligence knowledge.

**Prerequisite:** KM 80301 with a minimum C grade; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**KM 80315 FOUNDATIONS OF DOCUMENT MANAGEMENT 3 Credit Hours**

(Slashed with KM 60315) Covers three main themes: Principles, which covers the document and records management conceptual framework, relationships with information policy, definitions and industry standards; Practices, which covers the management and procedural framework for effective planning and implementation of document and records management solutions; Technologies, which provides a business-oriented analysis of the nature of the enabling information systems available to support effective document and records management solutions.

**Prerequisite:** KM 80301; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**KM 80316 ORGANIZATIONAL CULTURE ASSESSMENT 3 Credit Hours**

(Slashed with KM 60316) Examines different types of cultures and how each type influences a knowledge organization - how culture influences the way knowledge workers work, how they make decisions and how they behave, the internal cultures of groups and communities, the cultural attributes of knowledge workers which may impact their knowledge behaviors. Organizational cultures of multicultural, global and virtual organizations are covered. Students conduct an organizational culture assessment.

**Prerequisite:** KM 80301; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter



**KM 80340 BUSINESS NARRATIVE AND STORYTELLING 3 Credit Hours**

(Slashed with KM 60340) Focuses on the business use of storytelling and narrative intelligence. Narrative intelligence is the ability to make sense of the world through narrative and storytelling. Business narrative helps a knowledge organization to strengthen its organizational visions, to enhance communications, to capture and transfer knowledge, externalize and internalize tacit knowledge, encourage innovation, build communities, and develop effective training, mentoring and learning strategies. Business narrative is the primary way that procedural knowledge is understood and shared. Covers oral and written stories, documentaries, oral histories, organizational myths and legends, case scenarios, training scenarios, encoded and embedded business rules, gossip and business conversations. Students learn how to develop business stories, craft and deliver a springboard story, evaluate narrative architectures, and design systems that support access to business narratives and stories.

**Prerequisite:** KM 80301; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**KM 80370 SEMANTIC ANALYSIS METHODS AND TECHNOLOGIES 3 Credit Hours**

(Slashed with KM 60370) Introduces students to the practical contexts, methods and tools associated with semantic analysis. Focuses on early life cycle aspects of semantics, including identification and modeling of semantic problems, design of semantic solutions, and the identification and implementation of appropriate semantic technologies. Covers natural language processing, rule-based and grammar based concept extraction, rule-based and dynamic classification and automated summarization. Students work with a variety of semantic technologies.

**Prerequisite:** KM 80301; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**KM 80691 SEMINAR IN KNOWLEDGE MANGEMENT 1-3 Credit Hours**

(Repeatable for credit) Advanced research by students who are qualified to examine problems of certain special areas related to concentrations of study in knowledge management.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Seminar

**Contact Hours:** 1-3 other

**Grade Mode:** Standard Letter

**KM 81095 SPECIAL TOPICS IN KNOWLEDGE MANAGEMENT 1-3 Credit Hours**

(Repeatable for credit) Offered irregularly as resources and or opportunities permit. Topics could include current or emerging issues in knowledge management. Specific topics are announced in the Schedule of Classes.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 1-3 lecture

**Grade Mode:** Standard Letter

**KM 81096 INDIVIDUAL INVESTIGATION IN KNOWLEDGE MANAGEMENT 1-3 Credit Hours**

Research or individual investigation for doctoral level students.

**Prerequisite:** Doctoral standing; and graduate standing.

**Schedule Type:** Individual Investigation

**Contact Hours:** 3-9 other

**Grade Mode:** Standard Letter-IP

**Library and Information Science (LIS)****LIS 10010 INFORMATION FLUENCY FOR COLLEGE SUCCESS 3 Credit Hours**

Course teaches information-seeking skills critical to college success, enabling students to become information fluent—able to formulate a research question; locate, evaluate and synthesize information from a variety of contexts, including scholarly and other resources; use information effectively and ethically in academic research; and become active contributors to scholarship.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**LIS 30010 INFORMATION FLUENCY IN THE WORKPLACE AND BEYOND 3 Credit Hours**

Course helps students understand, navigate and become full participants in information society. Students go beyond learning basic library and internet skills to understanding issues specific to professional information environments. Emphasis is placed on acknowledging the contextual, dynamic and fluid nature of information to further understand it as a process, commodity and entity. Students examine and critically reflect on the value of using multiple information resources and emerging technologies to fill gaps in academic, professional and personal information contexts.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**LIS 40645 DATABASE FUNDAMENTALS FOR INFORMATION PROFESSIONALS 3 Credit Hours**

(Slashed with LIS 50645) Characteristics and concepts of database; different types of database models; conceptual database design and implementation; the relational database model and its application in practice for information professionals: key issues, principles, and techniques; data storage, processing, retrieval, analysis, and reporting.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**LIS 40655 COPYRIGHT: UNDERSTANDING USER RIGHTS AND RESPONSIBILITIES 3 Credit Hours**

Exploration of advanced copyright topics such as mass digitization, creative arts and other issues in fair use, library, archive and educational uses including the TEACH Act, digital first sale rights, Digital Millennium Copyright Act, and an introduction to copyright reform.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**LIS 40656 LICENSING OF INFORMATION PRODUCTS AND SERVICES 3 Credit Hours**

Topics related to licensing of information products and services including online contract formation, software licenses (End User License Agreements), database and website terms of service, detailed understanding of common terms and conditions in license agreements and an introduction to music licensing and Creative Commons licensing.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter



**LIS 40693 VARIABLE TITLE WORKSHOP IN LIBRARY AND INFORMATION SCIENCE 1-3 Credit Hours**

(Repeatable for credit) Intensive examination of special topics of interest.

**Prerequisite:** Junior or senior standing; and special approval.

**Schedule Type:** Workshop

**Contact Hours:** 1-3 other

**Grade Mode:** Satisfactory/Unsatisfactory

**LIS 41095 SELECTED TOPICS IN LIBRARY SCIENCE 1-3 Credit Hours**

(Repeatable for credit) Topics will be announced in schedule of classes.

Offered irregularly as resources and opportunities permit.

**Prerequisite:** Permission.

**Schedule Type:** Lecture

**Contact Hours:** 1-3 lecture

**Grade Mode:** Standard Letter

**LIS 50645 DATABASE FUNDAMENTALS FOR INFORMATION PROFESSIONALS 3 Credit Hours**

(Slashed with LIS 40645) Characteristics and concepts of database; different types of database models; conceptual database design and implementation; the relational database model and its application in practice for information professionals: key issues, principles, and techniques; data storage, processing, retrieval, analysis, and reporting.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**LIS 50693 VARIABLE TITLE WORKSHOP-LIBRARY AND INFORMATION SCIENCE 1-3 Credit Hours**

(Repeatable for credit) Maximum workshop credit accepted for MLIS degree is 4 semester hours. Intensive examination of special topics of interest to practicing librarians.

**Prerequisite:** Graduate standing.

**Schedule Type:** Workshop

**Contact Hours:** 1-3 other

**Grade Mode:** Satisfactory/Unsatisfactory

**LIS 60010 THE INFORMATION LANDSCAPE 3 Credit Hours**

Exploration of the nature of information and technology in information-intensive environments. Topics to be addressed include information lifecycle processes such as production, storage, sharing, and consumption; social, cultural, economic, legal, and technological contexts for understanding information processes; the roles of information professionals and agencies, and their place in the larger information marketplace; current and emerging information technologies that shape the information economy.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**LIS 60020 INFORMATION ORGANIZATION 3 Credit Hours**

Introduction to the theory and practice of information organization and retrieval in various information environments. Familiarity with principles, standards, tools and current systems relating to organization of information and retrieval. Exploration of supported information system functions such as searching, browsing, and navigation. Assessment and evaluation of information organization and retrieval systems.

**Prerequisite:** Graduate standing.

**Pre/corequisite:** LIS 60010 or LIS 60607.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**LIS 60030 PEOPLE IN THE INFORMATION ECOLOGY 3 Credit Hours**

Takes a user-centered approach in exploring the information needs and behaviors of people (as individuals and in groups, communities, and institutions) in relation to the larger information ecology that surrounds them. Topics covered include an overview of information ecology; the user-centered paradigm; major information needs and information behavior theories, models, and findings; the landscape of information sources and services for users; factors that influence people's information needs and behaviors; and user empowerment, information ethics, information fluency, and related issues.

**Prerequisite:** Graduate standing.

**Pre/corequisite:** LIS 60010 or LIS 60607.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**LIS 60040 INFORMATION INSTITUTIONS AND PROFESSIONS 3 Credit Hours**

Examines the political, social, economic, and technical forces that influence the larger environments in which information institutions are situated. This course explores characteristics of the environments in which information professionals may work, including but not limited to academic, school, public, and special libraries, museums, archives, cultural heritage institutions, government organizations, corporations across all industries, and information creators and publishers. The course explores characteristics of the information profession including core values and principles, emerging professions, and understanding possible futures in profession, and explores ideas of organizational behavior in information institutions that operate across the institution as a whole, within groups, and within individuals in the organization.

**Prerequisite:** Graduate standing.

**Pre/corequisite:** LIS 60010.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**LIS 60050 RESEARCH AND ASSESSMENT IN LIBRARY AND INFORMATION SCIENCE 3 Credit Hours**

Focuses on quantitative and qualitative research methods applicable to information settings and environments. Explores research design, data analysis, proposal development, and ethical issues.

**Prerequisite:** Graduate standing.

**Pre/corequisite:** LIS 60010 or LIS 60607.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**LIS 60092 MASTER'S INTERNSHIP IN LIBRARY AND INFORMATION SCIENCE 3 Credit Hours**

Under the advisement of a faculty member, students complete a professional-level internship that serves as a culminating experience for the M.L.I.S. degree. A minimum GPA of 3.000 is required for registration in this course.

**Prerequisite:** LIS 60010 and LIS 60020 and LIS 60030 and LIS 60040 and LIS 60050; and 24 credit hours completed in the MLIS program; and Graduate standing and special approval.

**Schedule Type:** Practical Experience

**Contact Hours:** 10 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**LIS 60098 MASTER'S PROJECT IN LIBRARY AND INFORMATION SCIENCE 3 Credit Hours**

Under the advisement of a faculty member, students will complete a master's research project that serves as a culminating experience for the M.L.I.S. degree. A minimum GPA of 3.000 is required for registration in this course.

**Prerequisite:** LIS 60050; and LIS 60010 and LIS 60020 and LIS 60030 and LIS 60040; and 24 credit hours completed in the MLIS program; and Graduate standing and special approval.

**Schedule Type:** Master's Project

**Contact Hours:** 3 lecture

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**LIS 60198 MASTER'S PAPER IN LIBRARY AND INFORMATION SCIENCE 3 Credit Hours**

Under the advisement of a faculty member, students will complete a research paper that serves as a culminating experience for the M.L.I.S. degree. A minimum GPA of 3.000 is required for registration in this course.

**Prerequisite:** LIS 60010 and LIS 60020 and LIS 60030 and LIS 60040 and LIS 60050; and 24 credit hours completed in the MLIS program; and graduate standing; and special approval.

**Schedule Type:** Research

**Contact Hours:** 10 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**LIS 60199 THESIS I 2-6 Credit Hours**

Thesis students must register for a total of 6 hours, 2 to 6 hours in a single semester, distributed over several semesters if desired. Students must have a minimum cumulative GPA of 3.000 to be eligible for this course. In order to qualify for graduation, graduate students must have a 3.000 cumulative GPA in all graduate courses attempted.

**Prerequisite:** LIS 60050; or LIS 60010 and LIS 60020 and LIS 60030 and LIS 60040 and LIS 60050; and 24 hours of LIS coursework; and graduate standing; and special approval.

**Schedule Type:** Masters Thesis

**Contact Hours:** 2-6 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**LIS 60280 MASTER'S PORTFOLIO IN LIBRARY AND INFORMATION SCIENCE 1 Credit Hour**

Completed in a student's last semester. It will include the creation of an electronic portfolio to represent and self-evaluate the student's experience throughout the MLIS program, considering program learning outcomes and preparation for a career in the field of library and information science.

**Prerequisite:** LIS 60010, LIS 60030 and LIS 60050; and LIS 60020 or LIS 60624; and LIS 60040 or LIS 60607; and 24 credit hours completed in the MLIS program; and graduate standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 1 lecture

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**LIS 60299 THESIS II 2 Credit Hours**

Thesis students must continue registration each semester until all degree requirements are met.

**Prerequisite:** LIS 60199; and graduate standing.

**Schedule Type:** Masters Thesis

**Contact Hours:** 2 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**LIS 60401 LEADERSHIP IN LIBRARIES AND INFORMATION CENTERS 3 Credit Hours**

This course will review the concept of leadership while delving into its relationship to and differences from management, and its application in the personal and professional lives of information professionals. Beginning with an examination of personal leadership styles, the course will review the major philosophies of leadership thought that affect the library and information fields, the role of mentors, team building, project management, the moral and ethical responsibilities of leading others and leading through change in the information world.

**Prerequisite:** LIS 60040; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**LIS 60510 DIGITAL TECHNOLOGIES I: DATA FUNDAMENTALS 1 Credit Hour**

The first of three one-credit courses in digital technologies, this course presents foundational knowledge on the principles that underlie digital resources and services in modern information society, with specific emphasis on data representation, encoding, formatting, and data modeling.

**Prerequisite:** Graduate standing.

**Pre/corequisite:** LIS 60010; or UXD 60001; or KM 60301; or HI 60401.

**Schedule Type:** Lecture

**Contact Hours:** 1 lecture

**Grade Mode:** Standard Letter

**LIS 60511 DIGITAL TECHNOLOGIES II: INTERNET FUNDAMENTALS 1 Credit Hour**

The second of three one-credit courses in digital technologies, this course presents foundational knowledge on the principles that underlie digital resources and services in modern information society, with specific emphasis on online information systems, the Internet, and data security.

**Prerequisite:** Graduate standing.

**Pre/corequisite:** LIS 60510.

**Schedule Type:** Lecture

**Contact Hours:** 1 lecture

**Grade Mode:** Standard Letter

**LIS 60512 DIGITAL TECHNOLOGIES III: INFORMATION SYSTEMS FUNDAMENTALS 1 Credit Hour**

The third of three one-credit courses in digital technologies, this course presents foundational knowledge on the principles that underlie digital resources and services in modern information society, with specific emphasis on Web-based information applications, programming logic, Linked Data, and the interpretation of data.

**Prerequisite:** Graduate standing.

**Pre/corequisite:** LIS 60511.

**Schedule Type:** Lecture

**Contact Hours:** 1 lecture

**Grade Mode:** Standard Letter

**LIS 60601 INFORMATION SOURCES AND REFERENCE SERVICES 3 Credit Hours**

(Slashed with LIS 80601) Introduction to use and evaluation of basic sources of reference information, computerized and noncomputerized; reference interview and question-negotiation techniques; administration of reference and information services.

**Prerequisite:** LIS 60030; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**LIS 60602 RESOURCE DESCRIPTION AND ACCESS 3 Credit Hours**

Theoretical foundation, principles, core concepts, and practical application of current standards and conceptual models for the description (descriptive cataloging) of a variety of resources in information institutions. Topics include history and principles of descriptive cataloging standards, best practices documentation, resource discovery, authority work, encoding standards and structures, linked data, ethical issues, as well as current topics in resource description and access, such as emerging technologies and future directions.

**Prerequisite:** LIS 60020; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**LIS 60603 SUBJECT ANALYSIS, REPRESENTATION AND ACCESS 3 Credit Hours**

The course focuses on the theories, principles, and practices of subject analysis of the intellectual content of information resources and its representation through controlled vocabularies and classification. It covers fundamental concepts of aboutness, vocabulary control, classification theory, ethical considerations, and the theoretical foundations, structure, and the application of major subject vocabularies (LCSH), classification schemes (DDC and LCC), and other knowledge organization systems. The course also includes examinations of authority control for subject headings.

**Prerequisite:** LIS 60020; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**LIS 60607 SCHOOL LIBRARY MANAGEMENT 3 Credit Hours**

School Library Management focuses on theoretical and practical aspects of school library management. This course provides a foundation for the completion of a successful culminating experience practicum and licensure exam for School Library Media licensure K-12. The course content delivery, exploration activities and completion of assignments have been aligned with state of Ohio and the American Association of School Librarians national school library media standards and guidelines.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**LIS 60608 THE PUBLIC LIBRARY 3 Credit Hours**

(Slashed with LIS 80608) Analysis of the historical, sociopolitical, technological, fiscal and organizational factors affecting American public librarianship. Includes evaluation, planning, networking, funding, automation, buildings and censorship.

**Prerequisite:** LIS 60040; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**LIS 60609 MARKETING THE LIBRARY 3 Credit Hours**

(Slashed with LIS 80609) Introduction to the theory and practice of marketing the library. Topics include the evaluation of customer needs, the marketing mix, merchandising, public relations, relationship marketing, and the design and development of a marketing plan for libraries.

**Prerequisite:** Graduate standing.

**Pre/corequisite:** LIS 60010.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**LIS 60611 GOVERNMENT INFORMATION SOURCES AND SERVICES 3 Credit Hours**

(Slashed with LIS 80611) Library treatment of U.S. government publications with brief attention to municipal and state publications, and major documents of Great Britain, Canada and the United Nations.

**Prerequisite:** LIS 60030; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**LIS 60612 LIBRARY MATERIALS AND SERVICES FOR ADULTS 3 Credit Hours**

(Slashed with LIS 80612) Recent investigations of group and individual reading habits; advisory services in various types of libraries; library programs for adult education; projection of library materials toward community.

**Prerequisite:** Graduate standing.

**Pre/corequisite:** LIS 60010.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**LIS 60613 INFORMATION NEEDS, SEEKING AND USE 3 Credit Hours**

(Slashed with LIS 80613) Surveys theories and research related to people's interactions with information. The theories covered include information context and situation, information needs, information seeking, exploration of information sources, communication and collaboration in the information search process, information use, and other interactions among people, information, and information systems.

**Prerequisite:** LIS 60030; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**LIS 60614 SELECTION AND ACQUISITION OF LIBRARY MATERIALS 3 Credit Hours**

(Slashed with LIS 80614) Factors affecting selection in public, academic, school and special libraries (reading habits, censorship, publishing trends) community analysis, selection policies and process; selection sources; acquisitions.

**Prerequisite:** Graduate standing.

**Pre/corequisite:** LIS 60010.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**LIS 60615 THE ACADEMIC LIBRARY 3 Credit Hours**

(Slashed with LIS 80615) Governance, administration and services of libraries in institutions of postsecondary education.

**Prerequisite:** LIS 60040; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**LIS 60616 THE SPECIAL LIBRARY 3 Credit Hours**

(Slashed with LIS 80616) The formation of special libraries. Libraries in special subject fields and in organizations: corporations, government agencies, hospitals, etc. Internal organization and administration collection development and services.

**Prerequisite:** LIS 60040; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**LIS 60618 INFORMATION LITERACY INITIATIVES AND INSTRUCTION 3 Credit Hours**

(Slashed with LIS 80618) Invites information professionals from any library point-of-view (school, public, academic, archives, special, etc.). Topics include definitions and history of information literacy standards and objectives, developing an information literacy agenda, library pedagogy and learning styles, information literacy needs assessment, program development and delivery, and experiential learning in library communities.

**Prerequisite:** LIS 60030; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**LIS 60619 LEGAL INFORMATION SOURCES AND SERVICES 3 Credit Hours**

(Cross-listed with AS 43001 and AS 53001 and AS 73001) (Slashed with LIS 80619) Fundamentals of legal research methods and major sources of American legal literature in print and electronic formats as used in other disciplines. Students learn how to formulate a research plan based on legal analysis of issues using relevant, authoritative legal resources.

**Prerequisite:** LIS 60030; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**LIS 60620 HEALTH INFORMATION RESOURCES 3 Credit Hours**

(Slashed with LIS 80620) Identifies print and electronic sources of health information with emphasis on electronic sources. Medical patient and consumer health information is presented. This course is designed for the health educator, librarian, nurse or other health care professional.

**Prerequisite:** Graduate standing.

**Pre/corequisite:** LIS 60010.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**LIS 60621 SOCIAL SCIENCES INFORMATION SOURCES AND SERVICES 3 Credit Hours**

(Slashed with LIS 80621) Content, bibliographic structure and communication patterns in the social sciences with emphasis on information sources and services in sociology, history, education, political science, anthropology, related disciplines.

**Prerequisite:** LIS 60030; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**LIS 60622 SCIENCE/TECHNOLOGY INFORMATION SOURCES AND SERVICES 3 Credit Hours**

(Slashed with LIS 80622) Content, bibliographic structure and communication patterns in the sciences with emphasis on pure and applied fields, e.g., mathematics, biology, physics.

**Prerequisite:** LIS 60030; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**LIS 60623 BUSINESS/FINANCE INFORMATION SOURCES AND SERVICES 3 Credit Hours**

(Slashed with LIS 80623) Historical development; applications to current business, labor, governmental, educational and sociological information needs; interpretation to executives and others; printed sources and databases.

**Prerequisite:** LIS 60030; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**LIS 60624 CATALOGING FOR SCHOOL LIBRARIES 3 Credit Hours**

(Slashed with LIS 80624) Organization and administration of print and non-print materials in school libraries. Application of appropriate descriptive cataloging rules, subject headings and classification policies for children's, teen and educational materials K-12.

**Prerequisite:** Graduate standing.

**Pre/corequisite:** LIS 60010 or LIS 60607.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**LIS 60625 ENGAGING YOUNG CHILDREN AND FAMILIES 3 Credit Hours**

(Slashed with LIS 80625) Selection and utilization of materials in relation to needs, abilities and interests of the young child.

**Prerequisite:** Graduate standing.

**Pre/corequisite:** LIS 60010.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**LIS 60626 ENGAGING TEENS 3 Credit Hours**

(Slashed with LIS 80626) Selection and utilization of books and materials in relation to needs, abilities and interests of teens.

**Prerequisite:** Graduate standing.

**Pre/corequisite:** LIS 60010 or LIS 60607.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**LIS 60627 ART AND STORY: THE STUDY OF CHILDREN'S PICTUREBOOKS 3 Credit Hours**

(Slashed with LIS 80627) Engages students in the study and application of art and story in children's picturebooks through the lenses of book history, publishing studies, children's book illustration and storytelling, visual literacy and visual storytelling. Readers of picturebooks are studied as well, from professional readers, like librarians and book reviewers, to picturebook consumers.

**Prerequisite:** Graduate standing.

**Pre/corequisite:** LIS 60010.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**LIS 60628 HUMANITIES INFORMATION SOURCES AND SERVICES 3 Credit Hours**

(Slashed with LIS 80628) Philosophy, literature, fine and performing arts.

**Prerequisite:** LIS 60030; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter



**LIS 60629 ENGAGING SCHOOL-AGE CHILDREN 3 Credit Hours**  
(Slashed with LIS 80629) Selection and utilization of materials in relation to needs, abilities and interests of school age children.

**Prerequisite:** Graduate standing.

**Pre/corequisite:** LIS 60010 or LIS 60607.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**LIS 60630 REFERENCE SOURCES AND SERVICES FOR YOUTH 3 Credit Hours**

(Slashed with LIS 80630) Organization and administration of information sources and information services for children and young adults (K-12). Evaluation selection and utilization of print and electronic sources.

**Prerequisite:** Graduate standing.

**Pre/corequisite:** LIS 60010 or LIS 60607.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**LIS 60631 INTRODUCTION TO DIGITAL PRESERVATION 3 Credit Hours**

Approaches and standards for preserving and maintaining access to digitized and born-digital text, images, data, audiovisual information, and web resources. Topics include longevity of digital media, selection for preservation; formats and strategies for preservation; preservation metadata; integrity and authenticity of digital materials; establishment and certification of trustworthy digital repositories; risk management; and policy development.

**Prerequisite:** LIS 60020 and LIS 60511; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**LIS 60633 DIGITAL CURATION 3 Credit Hours**

(Slashed with LIS 80633) Management and preservation of digital objects and records throughout their lifecycle. Essential technologies and standards for building and maintaining robust, trusted digital repositories. Emphasizes the use and reuse of scholarly data, business and government records, cultural heritage materials, and other digital objects to create resources supporting communities of practice in their work.

**Prerequisite:** LIS 60511; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**LIS 60635 CULTURAL HERITAGE INFORMATICS 3 Credit Hours**

(Slashed with LIS 80635) Cultural heritage informatics brings a comprehensive, cross-disciplinary approach to supporting the entire lifecycle of cultural heritage information and documentation procedures for the benefit of the preservation, study, and promotion of cultural heritage. The course covers methods of creating descriptions for cultural objects, as well as organizing, delivering, and presenting the cultural heritage (tangible, intangible, and digital) resources in the digital age. The course aims to prepare students for careers focusing on or transcending libraries, archives, museums (LAMs), historical societies, and other cultural institutions by introducing them the methodologies and technologies commonly used in cultural heritage informatics and can be broadly implemented in LAMs.

**Prerequisite:** LIS 60020; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**LIS 60636 KNOWLEDGE ORGANIZATION STRUCTURES, SYSTEMS AND SERVICES 3 Credit Hours**

(Slashed with LIS 80636) Introduction to various types of knowledge organization systems, services, and structures (KOS) used in the networked environment. Understanding of the functional philosophical, logical, and linguistic fundamentals of KOS. Explanation of design options, features of KOS, and procedures to be used in the thesaurus, taxonomy and ontology construction.

**Prerequisite:** LIS 60020; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**LIS 60637 METADATA ARCHITECTURE AND IMPLEMENTATION 3 Credit Hours**

(Slashed with LIS 80637) Principles and theories of metadata development in the digital environment. Main focus is given to the design and applications of metadata schemas for distinct domains and information communities, issues in metadata interoperability, vocabulary control, quality control and evaluation. Examination of international standards, activities and projects with the use of case study approach.

**Prerequisite:** LIS 60020; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**LIS 60638 DIGITAL LIBRARIES 3 Credit Hours**

(Slashed with LIS 80638) This course introduces a broad set of issues involved in the development and maintenance of digital libraries, including policy development, technology, collection development, project management, user-centered design, digitization, metadata, and interoperability.

**Prerequisite:** LIS 60512; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**LIS 60639 IMPLEMENTATION OF DIGITAL LIBRARIES 3 Credit Hours**

(Slashed with LIS 80639) Explores issues related to implementation of digital libraries and provides hands-on experience for student to build digital library prototypes (small-scale) with open source software. Emphasis is on design and implementation of key digital library functions, including building digital collections, defining and creating metadata, indexing, browsing and retrieval, customizing interface, implementing services, encoding and transforming for data exchange, and testing the usability and effectiveness.

**Prerequisite:** LIS 60638; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**LIS 60640 LIBRARY AUTOMATION 3 Credit Hours**

(Slashed with LIS 80640) Analysis, design and selection of automated library systems. Considers system analysis and requirements, networking technologies, database management systems, multimedia and hypermedia, and client-server computing. Also, proposals to vendors, contract negotiation, implementation, staffing, training, system maintenance and evaluation.

**Prerequisite:** LIS 60020; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter



**LIS 60641 INFORMATION STORAGE AND RETRIEVAL SYSTEMS 3 Credit Hours**

(Slashed with LIS 80641) Fundamentals of information retrieval models and methods, including information storage structures, full-text indexing, structured indexes, search engines and web retrieval, human-computer interaction, and the user's experience, system performance and evaluation.

**Prerequisite:** LIS 60512; and graduate standing; and special approval.

**Pre/corequisite:** LIS 60010.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**LIS 60643 ONLINE INFORMATION SYSTEMS 3 Credit Hours**

(Slashed with LIS 80643) Use of information technologies to search for and retrieve electronic information, primarily through the Internet. Analysis of database structures and electronic records; search principles and heuristics; database system producers; system interfaces; and evaluation of results.

**Prerequisite:** LIS 60030; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**LIS 60649 INDEXING AND ABSTRACTING 3 Credit Hours**

(Slashed with LIS 80649) Principles and methods of manual and computerized indexing and abstracting applied to I & A databases, back of book indexes, website indexes and sitemaps. Techniques of constructing indexing languages using international standards. Theory and practice of index design for specific formats and subjects. Automation and I & A services in networked environments.

**Prerequisite:** LIS 60020; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**LIS 60650 INFORMATION POLICY 3 Credit Hours**

(Slashed with LIS 80650) Political, economic, cultural and legal issues regarding the production, distribution and use of information (print, electronic and Web). Policy-making process, standards and protocols, intellectual property, information economy, impact of computers on access and policy, privacy rights, transnational flow of information and the Internet and the World Wide Web.

**Prerequisite:** LIS 60040; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**LIS 60651 DIGITAL IMAGE PROCESSING AND COLLECTION MANAGEMENT 3 Credit Hours**

(Slashed with LIS 80651) This course is designed to introduce students to the fundamental concepts, terminology, techniques and applications of digital imaging as they relate to the development of digital image collections depicting works found in museum collections, archives and special collections in libraries. The students will acquire knowledge and skills necessary to design, create, and manage digital images of text, graphics, slides and reproductions of 3-D objects. They will also be introduced to the principles and issues that pertain to the creation and distribution of digital image archives via image databases and the Web environment.

**Prerequisite:** LIS 60020; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**LIS 60652 FOUNDATIONS OF RECORDKEEPING IN SOCIETY 3 Credit Hours**

(Slashed with LIS 80652) An introduction to the core principles and practices of recordkeeping and the multiple and complex roles records and archives play in identity, evidence, transparency, memory, accountability, equity, representation and trust in society. This course covers historical and contemporary recordkeeping contexts related to individuals, family, community, organization, corporate, academia and government, as well as traditional, nontextual and digital formats of records and archives.

**Prerequisite:** Graduate standing.

**Pre/corequisite:** LIS 60010; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**LIS 60653 INFORMATION SOURCES AND SERVICES IN LOCAL HISTORY AND GENEALOGY 3 Credit Hours**

Introduces primary and secondary resources and materials to promote and perform reference services in genealogy and local history through lectures, readings, discussion, and practical exercises. The course will use primary and secondary materials available to librarians and archivists in libraries, archives, historical societies and on the Internet.

**Prerequisite:** LIS 60030; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**LIS 60654 PRESERVATION AND CONSERVATION OF HERITAGE MATERIALS 3 Credit Hours**

(Slashed with LIS 80654) Types and causes of deterioration of various kinds of library, archival, and museum collections; storage and preventive care, preservation through photographic reproduction and digital conversion, and conservation of rare materials.

**Prerequisite:** Graduate standing.

**Pre/corequisite:** LIS 60010.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**LIS 60655 COPYRIGHT: UNDERSTANDING USER RIGHTS AND RESPONSIBILITIES 3 Credit Hours**

(Slashed with LIS 80655) Exploration of advanced copyright topics such as mass digitization, creative arts and other issues in fair use, library, archive and educational uses including the TEACH Act, digital first sale rights, Digital Millennium Copyright Act, and an introduction to copyright reform.

**Prerequisite:** Graduate standing.

**Pre/corequisite:** LIS 60010.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**LIS 60656 LICENSING OF INFORMATION PRODUCTS AND SERVICES 3 Credit Hours**

(Slashed with LIS 80656) Topics related to licensing of information products and services including online contract formation, software licenses (End User License Agreements), database and website terms of service, detailed understanding of common terms and conditions in license agreements and an introduction to music licensing and Creative Commons licensing.

**Prerequisite:** Graduate standing.

**Pre/corequisite:** LIS 60010.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**LIS 60657 THEORY AND METHODS OF ARCHIVAL ACQUISITION, SELECTION AND APPRAISAL 3 Credit Hours**

(Slashed with LIS 80657) This course provides a comprehensive introduction to the theory, methods and traditions employed by records professionals to form and shape archives as societal memory. This course focusses primarily on acquisition, selection, documentation and appraisal theory and methods. Students will also examine contemporary records frameworks and approaches and issues faced by archivists, special collections librarians and manuscript curators employed to identify, evaluate, acquire and dispose of records.

**Prerequisite:** LIS 60652; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**LIS 60661 TECHNICAL SERVICES 3 Credit Hours**

(Slashed with LIS 80661) Principles, problems and current issues of acquiring, processing and preserving/conserving materials in libraries and information centers.

**Prerequisite:** LIS 60020; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**LIS 60664 MUSIC INFORMATION AND LIBRARIANSHIP 3 Credit Hours**

Introduction to music information and librarianship in library and archival settings. Includes discussion of issues relating to acquisition, cataloging, retrieval, use, and management of music information and resources both traditional and digital.

**Prerequisite:** LIS 60030; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**LIS 60665 RARE BOOKS AND SPECIAL COLLECTIONS 3 Credit Hours**

(Slashed with LIS 80665) Study of the theory and practice of rare books and special collections librarianship. Topics to be addressed include identification and description of collections, history of the book, valuation, collection development, preservation, security, access and discovery, promotion and outreach, and administration of collections and resources.

**Prerequisite:** LIS 60010; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**LIS 60666 ETHICAL CONCERNS OF LIBRARY AND INFORMATION PROFESSIONALS 3 Credit Hours**

(Slashed with LIS 80666) Analysis of ethical concerns of information professionals: codes of ethics, intellectual freedom, free access, privacy, confidentiality, computer issues and relations with management, clients and colleagues.

**Prerequisite:** LIS 60040; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**LIS 60668 INTERNATIONAL LIBRARIANSHIP AND INFORMATION SERVICES 3 Credit Hours**

(Slashed with LIS 80668) Main theoretical traditions, concepts, and in-depth understanding of international librarianship (library communication on international issues) and comparative librarianship (comparative study of information services in specific contexts) through the study of international cooperation, influences, development aid, international organizations and associations, differences, major issues facing library and information services within their socio-economic, political, and cultural contexts, and innovations to solve these issues across the world.

**Prerequisite:** Graduate standing.

**Pre/corequisite:** LIS 60010.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**LIS 60675 YOUTH LITERATURE IN THE DIGITAL REALM 3 Credit Hours**

From apps, to eBooks, to multi-platform books, to books with augmented reality, new digital formats extend books across media platforms, and provide readers with new, interactive ways of engaging with texts. However, the proliferation of new media formats means there are just as many questions related to their selection, evaluation, and use. This course aims to answer those questions and to critically examine digital formats and related implications for stakeholders in the field of literary production for young people, including librarians, publishers, authors, illustrators, and readers.

**Prerequisite:** Graduate standing.

**Pre/corequisite:** LIS 60010.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**LIS 60691 SEMINAR IN LIBRARY SCIENCE 1-3 Credit Hours**

(Repeatable for credit) (Slashed with LIS 80691) Advanced research by small groups of students who are qualified to examine problems of certain special areas.

**Prerequisite:** Graduate standing.

**Schedule Type:** Seminar

**Contact Hours:** 1-3 other

**Grade Mode:** Standard Letter

**LIS 60692 INTERNSHIP IN INFORMATION AND CULTURAL HERITAGE INSTITUTIONS 2,3 Credit Hours**

(Repeatable for credit) Supervised experience of a professional nature of not less than 100 clock hours for 2 credit hours or not less than 150 hours for 3 credit hours in an information or cultural heritage institution. Deliverables determined with instructor of record. Maximum registration of 2-3 credit hours per semester. No more than a total of 6 credit hours of Internship or Individual Investigation or any combination of the two may count toward MLIS degree requirements.

**Prerequisite:** LIS 60040; and graduate standing; and special approval.

**Schedule Type:** Practical Experience

**Contact Hours:** 6-9 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**LIS 60693 VARIABLE TITLE WORKSHOP-LIBRARY AND INFORMATION SCIENCE 1-3 Credit Hours**

(Repeatable for credit) Intensive examination of special topics of interest to practicing librarians. May be repeated. Maximum workshop credit accepted for MLIS degree is 4 semester hours.

**Prerequisite:** Graduate standing.

**Schedule Type:** Workshop

**Contact Hours:** 1-3 other

**Grade Mode:** Satisfactory/Unsatisfactory

**LIS 60695 SPECIAL PROBLEMS IN LIBRARY SCIENCE 1-10 Credit Hours**

(Repeatable for credit) (Slashed with LIS 80695) Individual research at high levels of specialization. Intended for persons in sixth year program.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 1-10 lecture

**Grade Mode:** Standard Letter-IP

**LIS 60700 FOUNDATIONS OF MUSEUM STUDIES 3 Credit Hours**

(Slashed with LIS 80700) Intended for those interested in learning more about museums or specializing in museum studies. The goal is to introduce students to various aspects of all types of museums as dynamic networked systems positioned around objects, people and ideas. Covers history and types of museums, the roles of objects and ideas, structure, function, museum workers and users, and the purpose and future of museums.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**LIS 60701 MUSEUM COLLECTIONS 3 Credit Hours**

(Slashed with LIS 80701) This course introduces students to the organization, care and meaning of objects held in museum collections. Through both theoretical and practical concepts, basic collection management and registration skills are introduced. In conjunction, students explore the meanings made of museum objects.

**Prerequisite:** LIS 60700; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**LIS 60702 MUSEUM COMMUNICATION 3 Credit Hours**

(Slashed with LIS 80702) Museums communicate to the public in a multitude of ways: interpretation, exhibition, publication, educational programming and using a web presence. This course introduces important concepts, theories, applications, processes and technology used in museum interpretation and communication. Students are provided with a balance of practical techniques with thoughtful conceptual exploration.

**Prerequisite:** LIS 60700; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**LIS 60703 MUSEUM USERS 3 Credit Hours**

(Slashed with LIS 80703) Families, individuals and students visit museums and community institutions for a variety of purposes including leisure, education and curiosity. Introduction to the research and theory on museum user experience. Inquiry involves examining notions of learning, engagement, and transformative experiences of users, characteristics of users and the social dynamics of the museum experience. In addition, reviews several programmatic techniques and methods used in museums to increase engagement and learning for patrons.

**Prerequisite:** LIS 60700; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**LIS 60704 THE MUSEUM SYSTEM 3 Credit Hours**

(Slashed with LIS 80704) Museums are by their very nature complex and dynamic systems composed of people, objects and activities. Comprised of an "outer" subsystem and an "inner" subsystem, the museum as a whole functions as an organic body, with all of its parts working together to function successfully. This system exists within a larger landscape, one filled increasingly with new types of interactions, unlimited access and constant feedback. This course explores this holistic system from both practical and conceptual viewpoints, examining the role of administration throughout the system as well as considering current issues such as sustainability, advocacy and relationships with community and users add to an overall understanding of the museum system.

**Prerequisite:** LIS 60700; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**LIS 60705 MUSEUM ORIGINS 3 Credit Hours**

(Slashed with LIS 80705) While the collecting of objects can be found as far back as ancient times in various parts of the world, the birth of the modern museum finds its roots in Europe. In the context of today's world, students will "go back in time" to understand the origins of western museums and the creation, use, and meaning of publicly shared collections over time. Students will explore the history of the modern museum and spend time visiting actual sites and collections that played a role in this history. Exploring the past in this way is geared specifically to help today's museum workers gain a better understanding of their own role and purpose in their community, society, and nation.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**LIS 60792 CULMINATING EXPERIENCE PRACTICUM IN K-12 LIBRARIES 3 Credit Hours**

Under the advisement of a faculty member, students complete a professional-level practicum that serves as a culminating experience for the M.L.I.S. degree.

**Prerequisite:** LIS 60607 or LIS 60040; and LIS 60624 or LIS 60020; and LIS 60618, LIS 60626, LIS 60629, LIS 60630 and LIS 60050; and minimum 3.000 overall GPA; and 24 hours completed in the MLIS degree program; or school library media program; and graduate standing; and special approval.

**Schedule Type:** Practical Experience

**Contact Hours:** 9 other

**Grade Mode:** Standard Letter-IP

**LIS 60892 CULMINATING EXPERIENCE FOR DUAL DEGREE 6 Credit Hours**

Culminating experience for students pursuing dual degree in M.Ed. and MLIS and K-12 School Library Media licensure. Must be in a supervised educational library or information center.

**Prerequisite:** ADED 62145, CI 67310, CI 67330, EPSY 65524, LIS 60030, LIS 60050, LIS 60618, LIS 60630 and SPED 63200; and LIS 60607 or LIS 60040; and LIS 60020 or LIS 60624; and graduate standing; and special approval.

**Schedule Type:** Practical Experience

**Contact Hours:** 18 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**LIS 61095 SELECTED TOPICS IN LIBRARY SCIENCE 1-3 Credit Hours**

(Repeatable for credit) (Slashed with LIS 81095) Offered irregularly as resources and/or opportunities permit. Topics will be announced in the schedule of classes.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 1-3 lecture

**Grade Mode:** Standard Letter

**LIS 61096 INDIVIDUAL INVESTIGATION 1-3 Credit Hours**

(Repeatable for credit) Research or individual investigation for master's level graduate students. Deliverables determined with instructor of record. Maximum registration of 1-3 credit hours per semester. Students may count a maximum of 6 credit hours of individual investigation toward their MLIS degree requirements. No more than a total of 6 credit hours of Internship or Individual Investigation or any combination of the two may count toward MLIS degree requirements.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Individual Investigation

**Contact Hours:** 1-3 other

**Grade Mode:** Standard Letter-IP

**LIS 80601 INFORMATION SOURCES AND REFERENCE SERVICES 3 Credit Hours**

(Slashed with LIS 60601) Introduction to use and evaluation of basic sources of reference information, computerized and noncomputerized; reference interview and question-negotiation techniques; administration of reference and information services.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**LIS 80602 CATALOGING AND CLASSIFICATION I 3 Credit Hours**

Principles of cataloging with emphasis on Dewey Decimal and Library of Congress Classification systems, Library of Congress subject headings, online cataloging and administration.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**LIS 80607 SCHOOL LIBRARY MANAGEMENT 3 Credit Hours**

(Slashed with LIS 60607) Management of school libraries.

**Prerequisite:** Doctoral standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**LIS 80608 THE PUBLIC LIBRARY 3 Credit Hours**

(Slashed with LIS 60608) Analysis of the historical, sociopolitical, technological, fiscal and organizational factors affecting American public librarianship. Includes evaluation, planning, networking, funding, automation, buildings and censorship.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**LIS 80609 MARKETING THE LIBRARY 3 Credit Hours**

(Slashed with LIS 60609) Introduction to the theory and practice of marketing the library. Topics include the evaluation of customer needs, the marketing mix, merchandising, public relations, relationship marketing, and the design and development of a marketing plan for libraries.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**LIS 80611 GOVERNMENT INFORMATION SOURCES AND SERVICES 3 Credit Hours**

(Slashed with LIS 60611) Library treatment of U.S. government publications, with brief attention to municipal and state publications, and major documents of Great Britain, Canada and the United Nations. Will not include materials covered in LIS 60601/LIS 80601.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**LIS 80612 LIBRARY MATERIALS AND SERVICES FOR ADULTS 3 Credit Hours**

(Slashed with LIS 60612) Recent investigations of group and individual reading habits; advisory services in various types of libraries; library programs for adult education; projection of library materials toward community.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**LIS 80613 INFORMATION NEEDS, SEEKING AND USE 3 Credit Hours**

(Slashed with LIS 60613) Surveys theories and research related to people's interactions with information. The theories covered include information context and situation, information needs, information seeking, exploration of information sources, communication and collaboration in the information search process, information use, and other interactions among people, information, and information systems.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**LIS 80614 SELECTION AND ACQUISITION OF LIBRARY MATERIALS 3 Credit Hours**

(Slashed with LIS 60614) Factors affecting selection in public, academic, school and special libraries (reading habits, censorship, publishing trends); community analysis, selection policies and process; selection sources; acquisitions.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**LIS 80615 THE ACADEMIC LIBRARY 3 Credit Hours**

(Slashed with LIS 60615) Governance, administration and services of libraries in institutions of postsecondary education.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**LIS 80616 THE SPECIAL LIBRARY 3 Credit Hours**

(Slashed with LIS 60616) The formation of special libraries. Libraries in special subject fields and in organizations: corporations, government agencies, hospitals, etc. Internal organization and administration, collection development and services.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**LIS 80618 INFORMATION LITERACY INITIATIVES AND INSTRUCTION 3 Credit Hours**

(Slashed with LIS 60618) Invites information professionals from any library point-of-view (school, public, academic, archives, special, etc.). Topics include definitions and history of information literacy standards and objectives, developing an information literacy agenda, library pedagogy and learning styles, information literacy needs assessment, program development and delivery, and experiential learning for students in library communities.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**LIS 80619 LEGAL INFORMATION SOURCES AND SERVICES 3 Credit Hours**

(Slashed with LIS 60619) (Cross-listed with AS 43001 and AS 53001 and AS 73001) Fundamentals of legal research methods and major sources of American legal literature in print and electronic formats as used in other disciplines. Students learn how to formulate a research plan based on legal analysis of issues using relevant, authoritative legal resources.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**LIS 80620 HEALTH INFORMATION RESOURCES 3 Credit Hours**

(Slashed with LIS 60620) Identifies print and electronic sources of health information with emphasis on electronic sources. Medical patient and consumer health information is presented. This course is designed for the health educator, librarian, nurse or other healthcare professional.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**LIS 80621 SOCIAL SCIENCES INFORMATION SOURCES AND SERVICES 3 Credit Hours**

(Slashed with LIS 60621) Content, bibliographic structure and communication patterns in the social sciences with emphasis on information sources and services in sociology, history, education, political science, anthropology, related disciplines.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**LIS 80622 SCIENCE AND TECHNOLOGY INFORMATION SOURCES AND SERVICES 3 Credit Hours**

(Slashed with LIS 60622) Content, bibliographic structure and communication patterns in the sciences with emphasis on pure and applied fields, e.g., mathematics, biology, physics.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**LIS 80623 BUSINESS AND FINANCE INFORMATION SOURCES AND SERVICES 3 Credit Hours**

(Slashed with LIS 60623) Historical development; applications to current business, labor, governmental, educational and sociological information needs; interpretation to executives and others; printed sources and databases.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**LIS 80624 CATALOGING FOR SCHOOL LIBRARIES 3 Credit Hours**

(Slashed with LIS 60624) Organization and administration of print and non-print materials in school libraries. Application of appropriate descriptive cataloging rules, subject headings and classification policies for children's, teen and educational materials K-12.

**Prerequisite:** Doctoral standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter



**LIS 80625 ENGAGING YOUNG CHILDREN AND FAMILIES 3 Credit Hours**

(Slashed with LIS 60625) Selection and utilization of materials in relation to needs, abilities and interests of the young child.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**LIS 80626 ENGAGING TEENS 3 Credit Hours**

(Slashed with LIS 80626) Selection and utilization of books and materials in relation to needs, abilities and interests of teens.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**LIS 80627 ART AND STORY: THE STUDY OF CHILDREN'S PICTUREBOOKS 3 Credit Hours**

(Slashed with LIS 60627) Engages students in the study and application of art and story in children's picturebooks through the lenses of book history, publishing studies, children's book illustration and storytelling, visual literacy and visual storytelling. Readers of picturebooks are studied as well, from professional readers, like librarians and book reviewers, to picturebook consumers.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**LIS 80628 HUMANITIES INFORMATION SOURCES AND SERVICES 3 Credit Hours**

(Slashed with LIS 60628) Philosophy, literature, fine and performing arts.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**LIS 80629 ENGAGING SCHOOL-AGE CHILDREN 3 Credit Hours**

(Slashed with LIS 60629) Selection and utilization of materials in relation to needs, abilities and interests of school-age children.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**LIS 80630 REFERENCE SOURCES AND SERVICES FOR YOUTH 3 Credit Hours**

(Slashed with LIS 60630) Organization and administration of information sources and information services for children and young adults (K-12). Evaluation, selection and utilization of print and electronic sources.

**Prerequisite:** Doctoral standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**LIS 80631 INTRODUCTION TO DIGITAL PRESERVATION 3 Credit Hours**

(Slashed with LIS 60631) Approaches and standards for preserving and maintaining access to digitized and born-digital text, images, data, audiovisual information, and web resources. Topics include longevity of digital media, selection for preservation; formats and strategies for preservation; preservation metadata; integrity and authenticity of digital materials; establishment and certification of trustworthy digital repositories; risk management; and policy development.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**LIS 80633 DIGITAL CURATION 3 Credit Hours**

(Slashed with LIS 60633) Management and preservation of digital objects and records throughout their lifecycle. Essential technologies and standards for building and maintaining robust, trusted digital repositories. Emphasizes the use and reuse of scholarly data, business and government records, cultural heritage materials, and other digital objects to create resources supporting communities of practice in their work.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**LIS 80635 CULTURAL HERITAGE INFOMATICS 3 Credit Hours**

(Slashed with LIS 60635) Cultural heritage informatics brings a comprehensive, cross-disciplinary approach to supporting the entire lifecycle of cultural heritage information and documentation procedures for the benefit of the preservation, study, and promotion of cultural heritage. The course covers methods of creating descriptions for cultural objects, as well as organizing, delivering, and presenting the cultural heritage (tangible, intangible, and digital) resources in the digital age. The course aims to prepare students for careers focusing on or transcending libraries, archives, museums (LAMs), historical societies, and other cultural institutions by introducing them to the methodologies and technologies commonly used in cultural heritage informatics and can be broadly implemented in LAMs.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**LIS 80636 KNOWLEDGE ORGANIZATION STRUCTURES, SYSTEMS AND SERVICES 3 Credit Hours**

(Slashed with LIS 60636) Introduction to various types of knowledge organization systems, services, and structures (KOS) used in the networked environment. Understanding of the functional philosophical, logical, and linguistic fundamentals of KOS. Explanation of design options, features of KOS, and procedures to be used in the thesaurus, taxonomy and ontology construction.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**LIS 80637 METADATA ARCHITECTURE AND IMPLEMENTATION 3 Credit Hours**

(Slashed with LIS 60637) Principles and theories of metadata development in the digital environment. Main focus is given to the design and applications of metadata schemas for distinct domains and information communities, issues in metadata interoperability, vocabulary control, quality control and evaluation. Examination of international standards, activities and projects with the use of case study approach.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**LIS 80638 DIGITAL LIBRARIES 3 Credit Hours**

(Slashed with LIS 60638) This course introduces a broad set of issues involved in the development and maintenance of digital libraries, including policy development, technology, collection development, project management, user-centered design, digitization, metadata, and interoperability.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**LIS 80639 IMPLEMENTATION OF DIGITAL LIBRARIES 3 Credit Hours**

(Slashed with LIS 60639) Explores issues related to implementation of digital libraries and provides hands-on experience for students to build digital library prototypes (small-scale) with open source software. The major emphasis is on design and implementation of key digital library functions, including building digital collections, defining and creating metadata, indexing, browsing and retrieval, customizing interface, implementing services, encoding and transforming for data exchange, and testing the usability and effectiveness.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**LIS 80640 LIBRARY AUTOMATION 3 Credit Hours**

(Slashed with LIS 60640) Analysis, design and selection of automated library systems. Considers system analysis and requirements, networking technologies, database management systems, multimedia and hypermedia, and client-serving computing. Also, proposals to vendors, contract negotiation, implementation, staffing, training, system maintenance and evaluation.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**LIS 80641 INFORMATION STORAGE AND RETRIEVAL SYSTEMS 3 Credit Hours**

(Slashed with LIS 60641) Fundamentals of information retrieval models and methods, including information storage structures, full-text indexing, structured indexes, search engines and web retrieval, human-computer interaction, and the user's experience, system performance and evaluation.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**LIS 80643 ONLINE REFERENCE SYSTEMS 3 Credit Hours**

(Slashed with LIS 60643) Use of information technologies to search for and retrieve electronic information, primarily through the Internet. Analysis of database structures and electronic records; search principles and heuristics; database system producers; system interfaces; and evaluation of results.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**LIS 80644 INFORMATION SCIENCE 3 Credit Hours**

(Slashed with LIS 60644) Focal areas of information science: information retrieval systems, bibliometrics, citation analysis, systems analysis and evaluation, information technologies, information theory, information architecture, knowledge management and user experience.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**LIS 80645 DATABASE DESIGN AND APPLICATIONS 3 Credit Hours**

(Slashed with LIS 50645) Characteristics and concepts of database systems; different types of database models; conceptual database design and implementation; the relational database model and its application in practice: key issues, principles, and techniques; current database technologies.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**LIS 80649 INDEXING AND ABSTRACTING 3 Credit Hours**

(Slashed with LIS 60649) Principles and methods of manual and computerized indexing and abstracting applied to I&A databases, back-of-book indexes, Web site indexes and sitemaps. Techniques of constructing indexing languages using international standards. Theory and practice of index design for specific formats and subjects. Automation and I&A services in networked environments.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**LIS 80650 INFORMATION POLICY 3 Credit Hours**

(Slashed with LIS 60650) Political, economic, cultural and legal issues regarding the production, distribution, and use of information (print, electronic and Web). Policy-making process, standards and protocols, intellectual property, information economy, impact of computers on access and policy, privacy rights, transnational flow of information and the Internet and the World Wide Web.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**LIS 80651 DIGITAL IMAGE PROCESSING AND COLLECTION MANAGEMENT 3 Credit Hours**

(Slashed with LIS 60651) This course is designed to introduce students to the fundamental concepts, terminology, techniques and applications of digital imaging as they relate to the development of digital image collections depicting works found in museum collections, archives, and special collections in libraries. The students will acquire knowledge and skills necessary to design, create and manage digital images of text, graphics, slides, and reproductions of 3-D objects. They will also be introduced to the principles and issues that pertain to the creation and distribution of digital-image archives via image databases and the Web environment.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**LIS 80652 FOUNDATIONS OF RECORDKEEPING IN SOCIETY 3 Credit Hours**

(Slashed with LIS 60652) An introduction to the core principles and practices of recordkeeping and the multiple and complex roles records and archives play in identity, evidence, transparency, memory, accountability, equity, representation and trust in society. This course covers historical and contemporary recordkeeping contexts related to individuals, family, community, organization, corporate, academia and government, as well as traditional, nontextual and digital formats of records and archives.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**LIS 80654 PRESERVATION AND CONSERVATION OF HERITAGE MATERIALS 3 Credit Hours**

(Slashed with LIS 60654) Types and causes of deterioration of various kinds of library, archival, and museum collections; storage and preventive care, preservation through photographic reproduction and digital conversion, and conservation of rare materials.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**LIS 80655 COPYRIGHT: UNDERSTANDING USER RIGHTS AND RESPONSIBILITIES 3 Credit Hours**

(Slashed with LIS 60655) Exploration of advanced copyright topics such as mass digitization, creative arts and other issues in fair use, library, archive and educational uses including the TEACH Act, digital first sale rights, Digital Millennium Copyright Act, and an introduction to copyright reform.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**LIS 80656 LICENSING OF INFORMATION PRODUCTS AND SERVICES 3 Credit Hours**

(Slashed with LIS 60656) Topics related to licensing of information products and services including online contract formation, software licenses (End User License Agreements), database and website terms of service, detailed understanding of common terms and conditions in license agreements and an introduction to music licensing and Creative Commons licensing.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**LIS 80657 THEORY AND METHODS OF ARCHIVAL ACQUISITION, SELECTION AND APPRAISAL 3 Credit Hours**

(Slashed with LIS 60657) This course provides a comprehensive introduction to the theory, methods and traditions employed by records professionals to form and shape archives as societal memory. This course focuses primarily on acquisition, selection, documentation and appraisal theory and methods. Students will also examine contemporary records frameworks and approaches and issues faced by archivists, special collections librarians and manuscript curators employed to identify, evaluate, acquire and dispose of records.

**Prerequisite:** LIS 80652; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**LIS 80661 TECHNICAL SERVICES 3 Credit Hours**

(Slashed with LIS 60661) Principles, problems and current issues of acquiring, processing and preserving conserving materials in libraries and information centers.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**LIS 80665 RARE BOOKS AND SPECIAL COLLECTIONS 3 Credit Hours**

(Slashed with LIS 60665) Study of the theory and practice of rare books and special collections librarianship. Topics to be addressed include identification and description of collections, history of the book, valuation, collection development, preservation, security, access and discovery, promotion and outreach, and administration of collections and resources.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**LIS 80666 ETHICAL CONCERNS OF LIBRARY AND INFORMATION PROFESSIONALS 3 Credit Hours**

(Slashed with LIS 60666) Analysis of ethical concerns of information professionals: codes of ethics, intellectual freedom, free access, privacy, confidentiality, computer issues and relations with management, clients and colleagues.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**LIS 80668 INTERNATIONAL LIBRARIANSHIP AND INFORMATION SERVICES 3 Credit Hours**

(Slashed with LIS 60668) Main theoretical traditions, concepts, and in-depth understanding of international librarianship (library communication on international issues) and comparative librarianship (comparative study of information services in specific contexts) through the study of international cooperation, influences, development aid, international organizations and associations, differences, major issues facing library and information services within their socio-economic, political, and cultural contexts, and innovations to solve these issues across the world.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**LIS 80691 SEMINAR IN LIBRARY SCIENCE 1-3 Credit Hours**

(Slashed with LIS 60691) Advanced research by small groups of students who are qualified to examine problems of certain special areas.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Seminar

**Contact Hours:** 1-3 lecture

**Grade Mode:** Standard Letter

**LIS 80694 COLLEGE TEACHING OF LIBRARY SCIENCE 2,3 Credit Hours**

(Repeatable for credit) Staff training and experience in college teaching.

**Prerequisite:** Doctoral standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 2-3 lecture

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**LIS 80695 SPECIAL PROBLEMS IN LIBRARY SCIENCE 1-10 Credit Hours**

(Repeatable for credit) (Slashed with LIS 60695) Individual research at high levels of specialization.

**Prerequisite:** Doctoral standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 1-10 lecture

**Grade Mode:** Standard Letter-IP

**LIS 80700 FOUNDATIONS OF MUSEUM STUDIES 3 Credit Hours**

(Slashed with LIS 60700) Intended for those interested in learning more about museums or specializing in museum studies. The goal is to introduce students to various aspects of all types of museums as dynamic networked systems positioned around objects, people and ideas. Covers history and types of museums, the roles of objects and ideas, structure, function, museum workers and users, and the purpose and future of museums.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**LIS 80701 MUSEUM COLLECTIONS 3 Credit Hours**

(Slashed with LIS 60701) Introduction to the organization, care and meaning of objects held in museum collections. Through both theoretical and practical concepts, basic collection management and registration skills are introduced. In conjunction, students explore the meanings made of museum objects.

**Prerequisite:** LIS 60700 or LIS 80700; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**LIS 80702 MUSEUM COMMUNICATION 3 Credit Hours**

(Slashed with LIS 60702) Museums communicate to the public in a multitude of ways: interpretation, exhibition, publication, educational programming and using a web presence. Introduces important concepts, theories, applications, processes and technology used in museum interpretation and communication. Students are provided with a balance of practical techniques with thoughtful conceptual exploration.

**Prerequisite:** LIS 60700 or LIS 80700; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**LIS 80703 MUSEUM USERS 3 Credit Hours**

(Slashed with LIS 60703) Families, individuals, and students visit museums and community institutions for a variety of purposes including leisure, education, and curiosity. Introduction to the research and theory on museum user experience. Inquiry involves examining notions of learning, engagement, and transformative experiences of users, characteristics of users, and the social dynamics of the museum experience. In addition, reviews several programmatic techniques and methods used in museums to increase engagement and learning for patrons.

**Prerequisite:** LIS 60700 or LIS 80700; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**LIS 80704 THE MUSEUM SYSTEM 3 Credit Hours**

(Slashed with LIS 60704) Museums are by their very nature complex and dynamic systems composed of people, objects and activities. Comprised of an "outer" subsystem and an "inner" subsystem, museum as a whole functions as an organic body, with all of its parts working together to function successfully. This system exists within a larger landscape, one filled increasingly with new types of interactions, unlimited access, and constant feedback. This course explores this holistic system from both practical and conceptual viewpoints, examining the role of administration throughout the system as well as considering current issues such as sustainability, advocacy and relationships with community and users add to an overall understanding of the museum system.

**Prerequisite:** LIS 60700 or LIS 80700; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**LIS 80705 MUSEUM ORIGINS 3 Credit Hours**

(Slashed with LIS 60705) While the collecting of objects can be found as far back as ancient times in various parts of the world, the birth of the modern museum finds its roots in Europe. In the context of today's world, students will "go back in time" to understand the origins of western museums and the creation, use, and meaning of publicly shared collections over time. Students will explore the history of the modern museum and spend time visiting actual sites and collections that played a role in this history. Exploring the past in this way is geared specifically to help today's museum workers gain a better understanding of their own role and purpose in their community, society and nation.

**Prerequisite:** Doctoral standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter



**LIS 81095 SELECTED TOPICS IN LIBRARY SCIENCE 1-3 Credit Hours**  
(Repeatable for credit) (Slashed with LIS 61095) Offered irregularly as resources and or opportunities permit. Topics will be announced in the Schedule of Classes.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 1-3 lecture

**Grade Mode:** Standard Letter

**LIS 81096 INDIVIDUAL INVESTIGATION 1-3 Credit Hours**  
(Repeatable for credit) Individual investigation for doctoral level students.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Individual Investigation

**Contact Hours:** 1-3 other

**Grade Mode:** Standard Letter-IP

## User Experience Design (UXD)

**UXD 20001 INTRODUCTION TO USER EXPERIENCE DESIGN 3 Credit Hours**

Students explore the context within which User Experience Design exists and the fundamental research that explains human behavior and how that research informs design decisions. Students are also introduced to the basic design processes and deliverables employed by UXD professionals.

**Prerequisite:** Advertising, communication studies, digital media production, digital sciences, journalism, photography, public relations, user experience design or visual communication design major or minor.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**UXD 40101 INFORMATION ARCHITECTURE 3 Credit Hours**

Introduction to the fundamental concepts and practices of information architecture (IA). Students develop practical skills for comparing, analyzing, critiquing and design of IA. Major topics include organization, navigation, labeling and search systems for web and mobile architectures.

**Prerequisite:** UXD 20001; and user experience design minor.

**Schedule Type:** Laboratory, Lecture, Combined Lecture and Lab

**Contact Hours:** 2 lecture, 2 lab

**Grade Mode:** Standard Letter

**UXD 40104 USABILITY 3 Credit Hours**

Provides a conceptual and practical overview of the processes and methods of usability testing such as development of test protocols, goals, facilitation, analysis and reporting of results. Actual usability tests are performed, using quantitative and qualitative methods and employing emerging software tools to facilitate data collection and analysis.

**Prerequisite:** UXD 20001; and user experience design minor.

**Schedule Type:** Laboratory, Lecture, Combined Lecture and Lab

**Contact Hours:** 2 lecture, 2 lab

**Grade Mode:** Standard Letter

**UXD 41095 SPECIAL TOPICS IN USER EXPERIENCE DESIGN 1-3 Credit Hours**

(Repeatable for credit) Topics could include current or emerging issues in user experience design. Topics will be announced in schedule of classes. Offered irregularly as resources and opportunities permit.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 1-3 lecture

**Grade Mode:** Standard Letter

**UXD 41096 INDIVIDUAL INVESTIGATION IN USER EXPERIENCE DESIGN 1-3 Credit Hours**

(Repeatable for credit) Research or individual investigation in areas not covered in the existing curriculum for baccalaureate level students at or above the junior level.

**Prerequisite:** Special approval.

**Schedule Type:** Individual Investigation

**Contact Hours:** 3-9 other

**Grade Mode:** Standard Letter-IP

**UXD 60001 USER EXPERIENCE DESIGN PRINCIPLES AND CONCEPTS 3 Credit Hours**

(Slashed with UXD 80001) Students explore the context in which User Experience Design exists and the various methods employed by designers in various fields related to design research, the generation of ideas and implementation of designs. Students are introduced to methods of design evaluation and to the conceptual framework of the related curricula.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**UXD 60002 USER EXPERIENCE DESIGN IN PRACTICE 3 Credit Hours**

Students learn and employ methods for engaging in creative problem solving. Introduce students to design research methods and current research on human behavior as it applies to user experience design. A core set of design deliverables are examined. Students begin to develop individual portfolio materials.

**Prerequisite:** Graduate standing.

**Pre/corequisite:** UXD 60001.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**UXD 60101 INFORMATION ARCHITECTURE I 3 Credit Hours**

(Slashed with UXD 80101) Introduction to the fundamental concepts and practices of information architecture (IA). Students develop practical skills for comparing, analyzing, critiquing and designing information architectures. Major topics include organization, navigation, labeling, search and other core IA concepts. Students learn to create blueprints, wireframes, process flows and other documents used to communicate an information architecture design.

**Prerequisite:** UXD 60001 and UXD 60002 with a minimum C grade; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**UXD 60102 PRINCIPLES OF INTERACTION 3 Credit Hours**

This course provides students with an overview of interaction design principles and concepts. It is divided into five modules.

**Prerequisite:** UXD 60001 and UXD 60002; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter



**UXD 60103 RESEARCHING THE USER EXPERIENCE I 3 Credit Hours**

(Slashed with UXD 80103) Design research seeks to understand user needs, goals and tasks. Deals with research methods for human-centered design of information-rich artifacts and experiences. Covers interviews, surveys, diary studies and other methods applicable to the formative stages of the design process. Students learn to distill research findings into audience segments, user profiles, personas, scenarios and other documents that model user behavior.

**Prerequisite:** UXD 60001 and UXD 60002 with a minimum C grade; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**UXD 60104 USABILITY I 3 Credit Hours**

(Slashed with UXD 80104) Provides a conceptual and practical overview of the processes and methods of usability testing, such as Think Aloud protocols, performance measurements and eye-tracking analysis. Actual usability testing is performed, using quantitative and qualitative methods and employing current and emerging software tools to facilitate data collection and analysis.

**Prerequisite:** UXD 60001 and UXD 60002; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**UXD 60106 CONTENT STRATEGY I 3 Credit Hours**

(Slashed with UXD 80106) Introduces the field of content strategy and its relationship to user experience design. Includes history and practices of content strategy, how to analyze user needs for content, the production of written materials related to content strategy and content audits and governance models. This course is the conceptual basis behind content strategy.

**Prerequisite:** UXD 60001 and UXD 60002; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**UXD 60111 INFORMATION ARCHITECTURE II 3 Credit Hours**

(Slashed with UXD 80111) This course will cover current topics in architecting for a changing web environment. Conceptual and technical aspects of Web 2.0 and Rich Internet Applications (RIA) have created the need for different types of design deliverables and usability considerations. In order to understand how to architect for Web 2.0, we must come to an understanding of what it is and how it works at least at a basic level. In addition, design tools to aid information architects are becoming more advanced and can aid IAs, making them more effective and efficient. These tools will be covered in depth.

**Prerequisite:** UXD 60001 and UXD 60002; and graduate standing.

**Pre/corequisite:** UXD 60101.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**UXD 60112 INTERACTION IN PRACTICE 3 Credit Hours**

This course provides students with experience planning, designing and prototyping interactions. Students will learn common interaction design (IxD) methodologies, what is expected of interaction designers, and what deliverables a designer typically provides. Students will practice interaction design by specifying content organization, hierarchy and user journeys for a mobile application in wireframe form. Students will create a functional prototype, building in the basic functionality needed for navigation and process funnels. Finally, students will test their prototypes formally.

**Prerequisite:** UXD 60001 and UXD 60002; and graduate standing.

**Pre/corequisite:** UXD 60102.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**UXD 60113 RESEARCHING USER EXPERIENCE II 3 Credit Hours**

(Slashed with UXD 80113) In order to design and develop effective user interfaces, task analysis process and theory are explored and applied via principles drawn from anthropology, ethnography, cognitive psychology, document and instruction systems design and market research. Practical techniques and methodologies are presented to improve interface design through all phases of the design process.

**Prerequisite:** UXD 60001 and UXD 60002; and graduate standing.

**Pre/corequisite:** UXD 60103.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**UXD 60114 USABILITY II 3 Credit Hours**

(Slashed with UXD 80114) Provides students with an understanding of qualitative and quantitative research methods appropriate for conducting advanced studies of human interaction with computers. In addition, students learn how to evaluate, purchase, implement and operate equipment for usability labs in a manner consistent with research methods.

**Prerequisite:** UXD 60001 and UXD 60002; and graduate standing.

**Pre/corequisite:** UXD 60104.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**UXD 60117 USER EXPERIENCE DESIGN LEADERSHIP 3 Credit Hours**

As User Experience Design professionals are increasingly sought out not only to solve specific experience problems but also for business strategies, this course will teach students business terms and principles to become viable leaders within their organizations. Students will learn business concepts like market forces, business models innovation and design, basic accounting and finance, and how to interact with their colleagues as leaders.

**Prerequisite:** UXD 60001 and UXD 60002; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**UXD 60118 ACCESSIBILITY EVALUATION AND UNIVERSAL DESIGN**  
**3 Credit Hours**

This course will provide user experience researchers and designers with the skills to evaluate software and hardware for accessibility, as well as an understanding of the principles of universal design and how they guide and influence the design of digital experiences.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**UXD 60691 SEMINAR IN USER EXPERIENCE DESIGN** 1-3 Credit Hours

(Repeatable for credit) Advanced research by students who are qualified to examine problems of certain special areas related to concentrations of study in user experience design.

**Prerequisite:** Graduate standing.

**Schedule Type:** Seminar

**Contact Hours:** 1-3 other

**Grade Mode:** Standard Letter

**UXD 60693 VARIABLE TITLE WORKSHOP IN USER EXPERIENCE DESIGN** 1-3 Credit Hours

(Repeatable for credit) Intensive examination of special topics of interest to those involved in user experience design. Maximum number of workshop credits for the MS-UXD major is 4 semester hours.

**Prerequisite:** Graduate standing.

**Schedule Type:** Workshop

**Contact Hours:** 1-3 other

**Grade Mode:** Satisfactory/Unsatisfactory

**UXD 60792 ELECTIVE INTERNSHIP IN USER EXPERIENCE DESIGN**  
**2-3 Credit Hours**

Supervised work experience in user experience design of a professional nature of not less than 100 clock hours (for 2 credit hours) or 150 clock hours (for 3 credit hours) with directed readings and preparation of a paper.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Practical Experience

**Contact Hours:** 6-9 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**UXD 61095 SPECIAL TOPICS IN USER EXPERIENCE DESIGN** 1-3 Credit Hours

(Repeatable for credit) Offered irregularly as resources and or opportunities permit. Topics could include current or emerging issues in user experience design.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 1-3 lecture

**Grade Mode:** Standard Letter

**UXD 61096 INDIVIDUAL INVESTIGATION IN USER EXPERIENCE DESIGN** 1-3 Credit Hours

(Repeatable for credit) Research or individual investigation in areas not covered by the existing curriculum for master's level students. Maximum 6 credit towards the user experience design major within the master of science degree.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Individual Investigation

**Contact Hours:** 3-9 other

**Grade Mode:** Standard Letter-IP

**UXD 66080 PROFESSIONAL PORTFOLIO DESIGN AND ASSESSMENT**  
**3 Credit Hours**

Students complete the assembly and evaluation of their work throughout the User Experience Design program in the form of a professional portfolio that will be used in efforts to gain employment or freelance work. Evaluation is done through critique by User Experience Design faculty and by peers.

**Prerequisite:** LIS 60636, UXD 60001, UXD 60002, UXD 60101, UXD 60104, UXD 60106; and a minimum 3.000 overall GPA; and graduate standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**UXD 66092 MASTER'S INTERNSHIP IN USER EXPERIENCE DESIGN**  
**3 Credit Hours**

Supervised work experience of an advanced professional nature that concentrates on developing skills in areas of user experience design and integrates their knowledge from all UXD courses and experiences. Students must have completed a minimum of 30 credit hours towards the user experience design major prior to registration.

**Prerequisite:** LIS 60636, UXD 60001, UXD 60002, UXD 60101, UXD 60103, UXD 60104 and UXD 60106; and minimum 3.000 overall GPA; and graduate standing; and special approval.

**Schedule Type:** Practical Experience

**Contact Hours:** 9 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**UXD 66098 MASTERS PROJECT IN USER EXPERIENCE DESIGN** 3 Credit Hours

Provides a means for the application of the knowledge, research and competencies learned through study in user experience design to the development of an information system, product, setting or service. Cumulative GPA of 3.000 is required prior to enrolling in the course. Students must have completed 30 credit hours towards the MS-UXDE program prior to registration.

**Prerequisite:** LIS 60636, UXD 60001, UXD 60002, UXD 60101, UXD 60103, UXD 60104 and UXD 60106; and minimum 3.000 overall GPA; and graduate standing; and special approval.

**Schedule Type:** Master's Project

**Contact Hours:** 3 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**UXD 66198 MASTER'S RESEARCH PAPER IN USER EXPERIENCE DESIGN** 3 Credit Hours

Under the advisement of a faculty member, students will complete a research paper that serves as a culminating experience for the M.S.-UXD degree. Students must have completed 30 credit hours towards the MS-UXDE program prior to registration.

**Prerequisite:** LIS 60636, UXD 60001, UXD 60002, UXD 60101, UXD 60103, UXD 60106; and minimum 3.000 overall GPA; and graduate standing; and special approval.

**Schedule Type:** Master's Project

**Contact Hours:** 3 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**UXD 66199 THESIS I 2-6 Credit Hours**

Thesis students must register for a total of 6 hours, 2 to 6 hours in a single semester distributed over several semesters if desired. Students must have completed 30 credit hours towards the MS-UXDE program prior to registration.

**Prerequisite:** LIS 60636, UXD 60001, UXD 60002, UXD 60101, UXD 60103, UXD 60104 and UXD 60106; a minimum 3.000 overall GPA; and graduate standing.

**Schedule Type:** Masters Thesis

**Contact Hours:** 2-6 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**UXD 66299 THESIS II 2 Credit Hours**

Thesis students must continue registration each semester until all degree requirements are met.

**Prerequisite:** UXD 66199; and graduate standing; and special approval.

**Schedule Type:** Masters Thesis

**Contact Hours:** 2 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**UXD 80001 USER EXPERIENCE DESIGN PRINCIPLES AND CONCEPTS 3 Credit Hours**

(Slashed with UXD 60120) Students explore the context in which User Experience Design exists and the various methods employed by designers in various fields related to design research, the generation of ideas and implementation of designs. Students are introduced to methods of design evaluation and to the conceptual framework of the related curricula.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**UXD 80002 USER EXPERIENCE DESIGN IN PRACTICE 3 Credit Hours**

(Slashed with UXD 60002) Students learn and employ methods for engaging in creative problem solving. Introduce students to design research methods and current research on human behavior as it applies to user experience design. A core set of design deliverables are examined. Students begin to develop individual portfolio materials.

**Prerequisite:** UXD 80001 with a minimum C grade; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**UXD 80101 INFORMATION ARCHITECTURE I 3 Credit Hours**

(Slashed with UXD 60101) Introduction to the fundamental concepts and practices of information architecture (IA). Students develop practical skills for comparing, analyzing, critiquing and designing information architectures. Major topics include organization, navigation, labeling, search and other core IA concepts. Students learn to create blueprints, wireframes, process flows and other documents used to communicate an information architecture design.

**Prerequisite:** UXD 80001 and UXD 80002 with a minimum C grade; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**UXD 80103 RESEARCHING THE USER EXPERIENCE I 3 Credit Hours**

(Slashed with UXD 60103) Design research seeks to understand user needs, goals and tasks. Deals with research methods for human-centered design of information-rich artifacts and experiences. Covers interviews, surveys, diary studies and other methods applicable to the formative stages of the design process. Students learn to distill research findings into audience segments, user profiles, personas, scenarios and other documents that model user behavior.

**Prerequisite:** UXD 80001 and UXD 80002 with a minimum C grade; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**UXD 80104 USABILITY I 3 Credit Hours**

(Slashed with UXD 60104) Provides a conceptual and practical overview of the processes and methods of usability testing, such as Think Aloud protocols, performance measurements and eye-tracking analysis. Actual usability testing is performed, using quantitative and qualitative methods and employing current and emerging software tools to facilitate data collection and analysis.

**Prerequisite:** UXD 80001 and UXD 80002; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**UXD 80106 CONTENT STRATEGY I 3 Credit Hours**

(Slashed with UXD 60106) Introduces the field of content strategy and its relationship to user experience design. Includes history and practices of content strategy, how to analyze user needs for content, the production of written materials related to content strategy, and content audits and governance models. This course is the conceptual basis behind content strategy.

**Prerequisite:** UXD 80001; and UXD 80002; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**UXD 80111 INFORMATION ARCHITECTURE II 3 Credit Hours**

(Slashed with UXD 60111) Web site design from emerging directions, such as the separation of content from presentation, with e.g., the use of Cascading Style Sheets (CSS) for formatting web-based documents. The course includes considerations of making web sites compliant with federal regulations or other standards and validation for various markup guidelines.

**Prerequisite:** Minimum C grade in UXD 80001, UXD 80002 and UXD 80101; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**UXD 80113 RESEARCHING THE USER EXPERIENCE II 3 Credit Hours**

(Slashed with UXD 60113) In order to design and develop effective user interfaces, task analysis process and theory are explored and applied via principles drawn from anthropology, ethnography, cognitive psychology, document and instruction systems design and market research. Practical techniques and methodologies are presented to improve interface design through all phases of the design process.

**Prerequisite:** Minimum C grade in UXD 80001, UXD 80002 and UXD 80103; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**UXD 80114 USABILITY II 3 Credit Hours**

(Slashed with UXD 60114) Provides students with an understanding of qualitative and quantitative research methods appropriate for conducting advanced studies of human interaction with computers. In addition, students learn how to evaluate, purchase, implement and operate equipment for usability labs in a manner consistent with research methods.

**Prerequisite:** UXD 80001, UXD 80002 and UXD 80104; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**UXD 80691 SEMINAR IN USER EXPERIENCE DESIGN 1-3 Credit Hours**

(Repeatable for credit) Advanced research by students who are qualified to examine problems of certain special areas related to concentrations of study in user experience design.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Seminar

**Contact Hours:** 1-3 other

**Grade Mode:** Standard Letter

**UXD 81095 SPECIAL TOPICS IN USER EXPERIENCE DESIGN 1-3 Credit Hours**

(Repeatable for credit) Offered irregularly as resources and or opportunities permit. Topics could include current or emerging issues in user experience design.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 1-3 lecture

**Grade Mode:** Standard Letter

**UXD 81096 INDIVIDUAL INVESTIGATION IN USER EXPERIENCE DESIGN 1-3 Credit Hours**

Research or individual investigation for doctoral level students.

**Prerequisite:** Doctoral standing; and special approval.

**Schedule Type:** Individual Investigation

**Contact Hours:** 3-9 other

**Grade Mode:** Standard Letter-IP

## School of Visual Communication Design

### Summer Visual Communication Design (SVCD)

**SVCD 45011 SUMMER DESIGN STUDIO 1-4 Credit Hours**

(Repeatable for a maximum of 16 credit hours) Summer course offerings investigating specialized areas of graphic design, illustration or photography taught primarily by guest faculty.

**Prerequisite:** None.

**Schedule Type:** Lecture, Studio

**Contact Hours:** 7.5-30 lecture, 12.5-45 other

**Grade Mode:** Standard Letter-S/U

**SVCD 55011 SUMMER DESIGN STUDIO 1-4 Credit Hours**

(Repeatable for a maximum of 16 credit hours). Summer course offerings investigating specialized areas of graphic design, illustration or photography taught primarily by guest faculty.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture, Studio

**Contact Hours:** 7.5-30 lecture, 12.5-45 other

**Grade Mode:** Standard Letter-S/U-IP

**SVCD 65011 SUMMER DESIGN STUDIO 1-4 Credit Hours**

(Repeatable for a maximum of 16 credit hours) Summer course offerings investigating specialized areas of graphic design, illustration or photography taught primarily by guest faculty.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture, Studio

**Contact Hours:** 7.5-30 lecture, 12.5-45 other

**Grade Mode:** Standard Letter-S/U-IP

### Visual Communication Design (VCD)

**VCD 13000 DESIGN: PRINCIPLES, PROCESSES AND PRACTICE 3 Credit Hours**

Introduction to the principles, processes and applications of design. Students explore the language of design, how it is influenced by form, content and context. Focus on historical overview, design theory, brainstorming, ideation, two-dimensional design, environmental design, typography, illustration, photography and interactive media.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**VCD 13001 INTRODUCTION TO VISUAL COMMUNICATION DESIGN STUDIO 3 Credit Hours**

Introduction to basic design processes using research, writing conceptual problem solving and format organization of two dimensional space utilizing type and imagery.

**Prerequisite:** Photography major, visual communication design major, or design minor.

**Schedule Type:** Studio

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**VCD 14001 VISUAL DESIGN LITERACY 3 Credit Hours**

Examines the topics visual communication design theory, two-dimensional graphic design, environmental graphic design, typography, illustration, photographic illustration, and interactive media. Introduction to how and why professionals in the field of visual communication design create meaning and context through their work. Students explore the language of visual communication, how it is influenced by form, content and context.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**VCD 14002 COMMUNICATING WITH COLOR 3 Credit Hours**

Introduction to color as it applies to fields of design and related areas. Topics covered include the vocabulary of color, the primary elements of color theory, color systems, color printing, color in film and online, and the effects of lighting on color. Students gain an appreciation for how color influences design and commerce through an understanding of basic practices of color forecasting and a study of how color perception is influenced by cultural differences.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter



**VCD 17000 COLOR: THEORY AND APPLICATION 3 Credit Hours**

Color and its interaction through a series of nonapplied (abstract) exercises.

**Prerequisite:** None.

**Schedule Type:** Studio

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**VCD 18002 PHOTOGRAPHY II 3 Credit Hours**

Course further develops basic technical information and introduces studio lighting techniques and protocols. The class is studio-based and introduces and explores gaining command of continuous lighting source (LED), composition, studio practices: The technical information will be supplemented with a series of photographic assignments that apply this information.

**Prerequisite:** CCI 12001; and visual communication design major or photography major or minor.

**Schedule Type:** Studio

**Contact Hours:** 6 other

**Grade Mode:** Standard Letter

**VCD 20000 BASIC COMPUTER-GRAPHIC DESIGN AND ILLUSTRATION 3 Credit Hours**

Introduction of basic operating system of Macintosh hardware and major design software for creation of layouts, vector and raster graphics. Explore production and peripheral equipment including scanners and printers.

**Prerequisite:** Visual communication design or photography majors.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 2 lecture, 2 lab

**Grade Mode:** Standard Letter

**VCD 20003 INTERMEDIATE COMPUTER-GRAPHIC DESIGN/ILLUSTRATION 3 Credit Hours**

A technical, studio course designed to teach the fundamentals of Web design in GoLive and Flash. Material is presented throughout a series of demos, exercises and projects.

**Prerequisite:** VCD 20000.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 2 lecture, 2 lab

**Grade Mode:** Standard Letter

**VCD 20010 INTRODUCTION TO DESIGN RESEARCH 3 Credit Hours**

Introduction to research methods used in the professional practice of visual communication design. Students are exposed to strategies, tactics and frameworks used in the creation of design artifacts.

**Prerequisite:** VCD 23001; and visual communication design or photography major or information design minor.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**VCD 20096 PHOTO-ILLUSTRATION SOPHOMORE PORTFOLIO REVIEW 1 Credit Hour**

Visual Communication Design faculty review student portfolios of work from prerequisite courses. A diagnostic examination to evaluate technical proficiency and formal organizational ability also is included in this review.

**Prerequisite:** VCD 13000 or VCD 14001; and VCD 13001; and VCD 23001; and VCD 18002; and VCD 28003; and photography major.

**Schedule Type:** Individual Investigation

**Contact Hours:** 3 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**VCD 20196 VCD SOPHOMORE PORTFOLIO REVIEW 1 Credit Hour**

Projects from Visual Communication Design freshman- and sophomore-level studio courses will comprise a portfolio to be critiqued by VCD faculty. A successful portfolio review will determine if the student is to advance in the BA program or enter the BFA program.

**Prerequisite:** VCD 22000 and VCD 23001 with a minimum C grade; and visual communication design major.

**Corequisite:** VCD 33000 and VCD 22001.

**Schedule Type:** Individual Investigation

**Contact Hours:** 1 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**VCD 21000 INTRODUCTION TO WEB DESIGN 3 Credit Hours**

In this course students will learn basic web design, using HTML (Hypertext Markup Language) and CSS (Cascading Style Sheets). Students are introduced to planning, designing and executing effective web pages, including developing web pages using web standards compliant HTML and CSS; leveraging CSS to style, enhance, organize and prioritize content; working with a wide range of content types and multimedia; and, producing small, functioning, multi-page websites.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**VCD 22000 DESIGN/ILLUSTRATION TECHNIQUES I 3 Credit Hours**

Introductory course in design/illustration. Object drawing with emphasis toward rendering materials and techniques used in reproduction, perspective, spatial organization and use of reference material.

**Prerequisite:** VCD 13000 and VCD 13001 with a minimum B- grade; and visual communication design major or design minor.

**Schedule Type:** Studio

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**VCD 22001 DESIGN/ILLUSTRATION TECHNIQUES II 3 Credit Hours**

Continuation of Design Illustration Techniques I with expanded emphasis on black and white media used for illustration purposes with emphasis on media capable of reproduction by traditional printing methods.

**Prerequisite:** VCD 22000 and 23001; and visual communication design major.

**Schedule Type:** Studio

**Contact Hours:** 6 other

**Grade Mode:** Standard Letter

**VCD 23000 INTERMEDIATE STUDIO SKILLS:GRAPHIC DESIGN AND ILLUSTRATION 3 Credit Hours**

A technical lecture course designed to outline the process and describe and discuss the technologies and vocabulary used in the printing industry.

**Prerequisite:** VCD 23001.

**Schedule Type:** Studio

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter



**VCD 23001 TYPOGRAPHY I 3 Credit Hours**

Historical study of letter forms and their application to the development of new forms. Execution and use of letter forms as design elements in layout and illustration using fundamental typographic theories and rules of spatial organization.

**Prerequisite:** VCD 13000; and VCD 13001 with a minimum B- grade; and photography major or visual communication design major or design minor.

**Schedule Type:** Studio

**Contact Hours:** 6 other

**Grade Mode:** Standard Letter

**VCD 28003 PHOTO TECHNOLOGY 3 Credit Hours**

Designed to give students an intermediate working knowledge of the digital photographic workflow, including intermediate Photoshop editing skills, overview of Adobe Raw and Bridge, color calibration and color management. Students will complete a series of photographic assignments to which they will apply this information.

**Prerequisite:** CCI 12001; and visual communication design major or photography major or minor.

**Schedule Type:** Studio

**Contact Hours:** 6 other

**Grade Mode:** Standard Letter

**VCD 28004 PHOTOGRAPHIC PERSPECTIVES 3 Credit Hours**

Examines the use of the photographic medium in the context of the commercial marketplace. Discusses the advancement of material processes, provides a comprehensive overview of commercial imagery and market development, examines industry trends, and introduces several theoretical criticisms pertaining to constructed photography.

**Prerequisite:** Photography major or minor or photo journalism major or minor.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**VCD 30008 JUNIOR PORTFOLIO REVIEW - PHOTO-ILLUSTRATION 1 Credit Hour**

Required portfolio review in conference, with the School of Visual Communication Design Faculty, of work completed in VCD 38004 and VCD 38001, Students successfully passing review may continue in the B.S. degree program in Photo Illustration. Students not receiving a passing grade in the review may not continue in the program.

**Prerequisite:** VCD 38004; and photo illustration major.

**Corequisite:** VCD 38001.

**Schedule Type:** Studio

**Contact Hours:** 2 other

**Grade Mode:** Satisfactory/Unsatisfactory

**VCD 30009 JUNIOR PORTFOLIO REVIEW:GRAPHIC DESIGN/ ILLUSTRATION 1 Credit Hour**

Required portfolio review in conference, with the school of Visual Communication Design Faculty, of work completed in VCD 32000, 32001, 33000 and 33001. Students successfully passing review may continue in the B.A. degree. To change to the B.F.A. program, students must be nominated by a majority of the VCD faculty. Students not receiving a passing grade in the review may not continue in the program.

**Prerequisite:** VCD 32000 and 33000; and visual communication design major.

**Corequisite:** VCD 32001 and 33001.

**Schedule Type:** Studio

**Contact Hours:** 1 lecture

**Grade Mode:** Satisfactory/Unsatisfactory

**VCD 32000 ILLUSTRATION I 3 Credit Hours**

Continuation of Design Illustration Techniques I and II with emphasis on technique and creative solutions as they apply to specific illustration areas: narrative, editorial, book, advertising and institutional.

**Prerequisite:** VCD 20010 and VCD 22001 and VCD 33000; and visual communication design major.

**Schedule Type:** Studio

**Contact Hours:** 6 other

**Grade Mode:** Standard Letter

**VCD 32001 ILLUSTRATION II 3 Credit Hours**

Illustration as communication: conceptual problem-solving visualizations of ideas utilizing felt tip markers as the medium of expression.

**Prerequisite:** VCD 32000.

**Schedule Type:** Studio

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**VCD 33000 GRAPHIC DESIGN I 3 Credit Hours**

Continuation of Introduction to Graphic Design and Introduction to Typography in the structuring of 2-D communication design utilizing headline, body copy and illustration with the addition of limited conceptual content.

**Prerequisite:** VCD 23001 with a minimum B- grade; and visual communication design major.

**Schedule Type:** Studio

**Contact Hours:** 6 other

**Grade Mode:** Standard Letter

**VCD 33001 GRAPHIC DESIGN II 3 Credit Hours**

Continuation of Graphic Design I, utilizing basic layout with emphasis on concept as applied to problem-solving methodologies through a series of exercises and problems.

**Prerequisite:** VCD 20010 and VCD 22001 and VCD 33000; and visual communication design major.

**Schedule Type:** Studio

**Contact Hours:** 6 other

**Grade Mode:** Standard Letter

**VCD 34004 VISUAL ETHICS 3 Credit Hours**

An extension of the information covered in the course Visual Literacy or Introduction to Visual Communication Design. Topics include the understanding of visual form, responsibility of the designer, photographer, and illustrator and those working in collaboration with visual communicators. Looks at image manipulation, copyright laws and ethical and professional guidelines. Also covered are topics such as sustainable design practices, acting as an advocate of the consumer and audience member. Discussion topics include credibility, dignity and developing a personal philosophy towards visual ethics.

**Prerequisite:** UXD 20001 or VCD 14001 or VCD 13000; and visual communication design major, photography major or user experience design minor or design minor.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**VCD 34005 INTRODUCTION TO 3D GRAPHIC DESIGN 3 Credit Hours**

Continuation of Graphic Design I and Introduction to Typography with application of typography and imagery to 3-D form.

**Prerequisite:** VCD 20010 and VCD 22001 and VCD 33000; and visual communication design major.

**Schedule Type:** Studio

**Contact Hours:** 6 other

**Grade Mode:** Standard Letter

**VCD 34006 MOTION DESIGN 3 Credit Hours**

A studio course designed to teach the fundamentals of motion graphic design. Materials and information are delivered through a series of lectures, demos and hands-on exercises.

**Prerequisite:** UXD 20001, VCD 18002 or VCD 33000; and visual communication design major, photography major or user experience design minor.

**Schedule Type:** Studio

**Contact Hours:** 6 other

**Grade Mode:** Standard Letter

**VCD 37000 VISUAL DESIGN FOR MEDIA: ADVANCED 3 Credit Hours**

A lab course in which students apply design concepts to computer-generated communication pieces using a layout software program. May not be used toward degree requirements by visual communication design majors.

**Prerequisite:** None.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 2 lecture, 1 lab

**Grade Mode:** Standard Letter

**VCD 38001 PHOTOGRAPHICS 3 Credit Hours**

This course explores relationships between photography and typography in communication. Unique solutions are created through the use of created images integrated with vector-based and raster graphics software (primarily Illustrator, InDesign and Photoshop). Students will examine techniques for Design and Typographic styles and work toward integrating these styles with purpose-made imagery.

**Prerequisite:** VCD 13001 and VCD 38004 and CCI 12001.

**Schedule Type:** Studio

**Contact Hours:** 3 lab

**Grade Mode:** Standard Letter

**VCD 38004 ADVANCED PHOTOGRAPHY 3 Credit Hours**

Introduction of professional strobe lighting equipment, materials and techniques along with the development of conceptual abilities and problem solving skills as applied to studio portraiture, still life, and location photography. Special lighting equipment and accessories furnished.

**Prerequisite:** VCD 18002.

**Schedule Type:** Studio

**Contact Hours:** 9 other

**Grade Mode:** Standard Letter

**VCD 38007 PHOTOGRAPHY TECHNIQUES 3 Credit Hours**

Explorations of current influences, innovations and trends in photography. Projects can include interdisciplinary collaborations such as the intersection of photojournalism and commercial photography, Architecture and Photography, etc.

**Prerequisite:** VCD 48005 and VCD 48008; and photography major.

**Schedule Type:** Studio

**Contact Hours:** 6 other

**Grade Mode:** Standard Letter

**VCD 38009 INTERNSHIP SEMINAR - PHOTOGRAPHY 1 Credit Hour**

Students prepare materials such as cover letters, resumes, employment applications and individual portfolios in preparation for interviewing and obtaining an internship and entering the job market in Photography.

**Prerequisite:** VCD 38004 and VCD 48005; and photography major; and sophomore standing.

**Schedule Type:** Seminar

**Contact Hours:** 1 other

**Grade Mode:** Satisfactory/Unsatisfactory

**VCD 38011 EDITORIAL PHOTOGRAPHY 3 Credit Hours**

This course explores and develops the style and protocols unique to editorial photography. Exploring and understanding visual storytelling; research methods and techniques; differences between advertising, fine art and editorial photography. Course will emphasize multiple styles of editorial work including portraiture, environmental, fashion, studio and location assignments. The importance of design along with critical thinking skills in image creation along with discussion of locations, model releases, editing, captioning, etc. will also be covered.

**Prerequisite:** VCD 28003 and VCD 38004; and photography major or visual communication design major.

**Schedule Type:** Studio

**Contact Hours:** 6 other

**Grade Mode:** Standard Letter

**VCD 40025 PROFESSIONAL PORTFOLIO 3 Credit Hours**

(Slashed with VCD 50025) Develop a senior-level professional portfolio through a selection and refinement of previously completed classroom work. Development of projects in areas of deficiency with emphasis on organization and presentation.

**Prerequisite:** Visual communication design major; and special approval.

**Schedule Type:** Studio

**Contact Hours:** 6 other

**Grade Mode:** Satisfactory/Unsatisfactory

**VCD 40035 PROFESSIONAL PORTFOLIO BFA DESIGN 3 Credit Hours**

Develop a professional portfolio in design and or illustration through selection and refinement of previously completed classroom work and development of projects in areas of deficiency, with emphasis on organization and presentation. Organization and participation in gallery show at the semester's conclusion.

**Prerequisite:** Visual communication design major within the bachelor of fine arts (BFA); and special approval.

**Schedule Type:** Studio

**Contact Hours:** 6 other

**Grade Mode:** Satisfactory/Unsatisfactory

**VCD 40052 GRAPHIC DESIGN-TRAVEL AND FIELD EXPERIENCE 1-6 Credit Hours**

Development of awareness and understanding in the practical application of graphic design and communication through directed field trip experience.

**Prerequisite:** None.

**Schedule Type:** Studio

**Contact Hours:** 2-12 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**VCD 40053 GRAPHIC DESIGN STUDIO-GLYPHIX 1-8 Credit Hours**

(Repeatable for a maximum of 24 credit hours) Professional experience through an internal design studio. Involves responsibilities and procedures for the production of communication materials for off-campus clients including nonprofit organizations, charities, arts groups and selected on-campus groups and departments.

**Prerequisite:** None.

**Schedule Type:** Studio

**Contact Hours:** 1-8 other

**Grade Mode:** Standard Letter

**VCD 40092 INTERNSHIP I-GRAPHIC DESIGN/ILLUSTRATION (ELR) 1 Credit Hour**

(Repeatable for credit)Preparation for experience in design studio, agency or company involving design responsibilities and procedures to broaden a student's understanding of the profession through real job situations.

**Prerequisite:** None.

**Schedule Type:** Practical Experience

**Contact Hours:** 1 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**Attributes:** Experiential Learning Requirement

**VCD 40095 SPECIAL TOPICS:GRAPHIC DESIGN/ILLUSTRATION 3 Credit Hours**

(Repeatable for a maximum of 9 credit hours)To broaden the course offerings into specialized areas of study in graphic design and illustration taught by experts in the profession as guest faculty. Primarily used to fulfill electives in graphic design or illustration.

**Prerequisite:** Special approval.

**Schedule Type:** Studio

**Contact Hours:** 5 other

**Grade Mode:** Standard Letter-IP

**VCD 40096 INDIVIDUAL INVESTIGATION IN GRAPHIC DESIGN AND ILLUSTRATION 1-8 Credit Hours**

(Repeatable for a maximum of 16 credit hours)Individual study related to topics of graphic design and illustration approved by and under the direction of a faculty member.

**Prerequisite:** None.

**Schedule Type:** Individual Investigation

**Contact Hours:** 1-8 other

**Grade Mode:** Standard Letter-IP

**VCD 40192 INTERNSHIP II-GRAPHIC DESIGN/ILLUSTRATION/PHOTOGRAPHY (ELR) 1-3 Credit Hours**

(Repeatable for credit) Three credit hours required. Experience in a design, illustration or photography studio, agency or company with responsibilities and to broaden a student's understanding of the profession through a real job situation.

**Prerequisite:** VCD 40092 or VCD 38009.

**Schedule Type:** Practical Experience

**Contact Hours:** 3-9 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**Attributes:** Experiential Learning Requirement

**VCD 40193 VARIABLE TITLE WORKSHOP IN VISUAL COMMUNICATION DESIGN 1-3 Credit Hours**

(Repeatable for credit)Workshop setting dealing with intensive examination of special topics in VCD.

**Prerequisite:** None.

**Schedule Type:** Workshop

**Contact Hours:** 1-3 other

**Grade Mode:** Satisfactory/Unsatisfactory

**VCD 40195 SELECTED TOPICS:GRAPHIC DESIGN/ILLUSTRATION 1-4 Credit Hours**

(Repeatable for credit)Variable topics related to graphic design and illustration.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 1-4 lecture

**Grade Mode:** Standard Letter-IP

**VCD 42000 ADVANCED ILLUSTRATION:MEDIA 3 Credit Hours**

(Slashed with VCD 52000) Discussions and practice of media and grounds as they pertain to the illustration field. Discussion also centers around the problems in developing work for reproduction.

**Prerequisite:** VCD 22000, VCD 22001 and VCD 32000; and bachelor of fine arts (BFA) or bachelor of arts (BA) in visual communication design major.

**Schedule Type:** Studio

**Contact Hours:** 6 other

**Grade Mode:** Standard Letter

**VCD 42002 EDITORIAL ILLUSTRATION 3 Credit Hours**

(Slashed with VCD 52002) Exploration and discussion of various illustration techniques and their application in the publishing field. Emphasis is placed on client needs, concept and intended audience.

**Prerequisite:** VCD 22000, VCD 22001; and bachelor of fine arts (BFA) or bachelor of arts (BA) in visual communication design major.

**Schedule Type:** Studio

**Contact Hours:** 6 other

**Grade Mode:** Standard Letter

**VCD 42003 ADVERTISING ILLUSTRATION 3 Credit Hours**

(Slashed with VCD 42003) Exploration and discussion of various illustration techniques and their application in advertising. Emphasis is placed on client need, concept of solution and intended audience.

**Prerequisite:** VCD 22000 and VCD 22001; and bachelor of fine arts (BFA) or bachelor of arts (BA) in visual communication design (VCD) major.

**Schedule Type:** Studio

**Contact Hours:** 6 other

**Grade Mode:** Standard Letter

**VCD 42005 CHARACTER DEVELOPMENT AND DESIGN: THE HUMAN FIGURE 3 Credit Hours**

(Slashed with VCD 52005) Focuses on the application of the fundamental design principles and mechanics used when designing characters for film animation, television animation, computer animation, video games, comic strips, comic books, advertising, editorial illustration and book illustration.

**Prerequisite:** VCD 22000 and VCD 22001.

**Schedule Type:** Studio

**Contact Hours:** 6 other

**Grade Mode:** Standard Letter

**VCD 42006 CHARACTER DEVELOPMENT AND DESIGN: ANIMALS AND ENVIRONMENTS 3 Credit Hours**

(Slashed with VCD 52006) This course focuses on the application of fundamental design principles and mechanics used when designing characters for film animation, television animation, computer animation, video games, comic strips, comic books, book illustration, advertising, and editorial illustration.

**Prerequisite:** VCD 22000, VCD 22001 and bachelor of fine arts (BFA) or bachelor of arts (BA) in visual communication design major.

**Schedule Type:** Studio

**Contact Hours:** 6 other

**Grade Mode:** Standard Letter

**VCD 42007 GRAPHIC NARRATIVE 3 Credit Hours**

(Slashed with VCD 52007) This course fuses written and visual content, allowing students to both author and illustrate visual narratives. Through readings, various genres of written form are explored and both historical and emerging narrative formats within the field of illustration are emphasized.

**Prerequisite:** VCD 22000 and VCD 22001.

**Schedule Type:** Studio

**Contact Hours:** 6 other

**Grade Mode:** Standard Letter

**VCD 43000 STUDIO PRODUCTION 3 Credit Hours**

A technical lecture course designed to teach the fundamental techniques and processes of electronic prepress and printing production. Material is presented through lectures, demos, tests and field trips.

**Prerequisite:** Visual communication design major; and junior standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**VCD 43001 INTERACTION DESIGN I 3 Credit Hours**

(Slashed with VCD 53001) The conceptualization and prototyping of interactive experiences. Prerequisite: VCD 34006

**Schedule Type:** Studio

**Contact Hours:** 6 other

**Grade Mode:** Standard Letter

**VCD 43002 TYPOGRAPHY II 3 Credit Hours**

(Slashed with VCD 53002) The use of typography (rather than visual imagery) as the primary design form in solving graphic design communication problems.

**Prerequisite:** VCD 13000, VCD 13001, VCD 23001, VCD 33000 and VCD 33001; and bachelor of fine arts (BFA) or bachelor of arts (BA) in visual communication design (VCD) major.

**Schedule Type:** Studio

**Contact Hours:** 6 other

**Grade Mode:** Standard Letter

**VCD 43003 IDENTITY SYSTEMS 3 Credit Hours**

Use of graphic design forms (typography, photography and illustration) in the development of identity systems.

**Prerequisite:** VCD 13000, VCD 13001, VCD 23001 and VCD 33000; and bachelor of fine arts (BFA) or bachelor of arts (BA) visual communication design (VCD).

**Schedule Type:** Studio

**Contact Hours:** 6 other

**Grade Mode:** Standard Letter

**VCD 43004 PROFESSIONAL COMMUNICATION FOR DESIGN 3 Credit Hours**

(Slashed with VCD 53004) Designed to familiarize students with the basic business, marketing, legal and ethical standards in the graphic design industry.

**Prerequisite:** Junior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**VCD 43005 PACKAGING, PROMOTION AND RETAIL ENVIRONMENTS 3 Credit Hours**

Use of typography and visual images, photography and illustrations in the structure of information for communication on 3D surfaces: direct mail, packaging and point of purchase display.

**Prerequisite:** VCD 13000, VCD 13001, VCD 22000, VCD 22001, VCD 23001, VCD 33000, VCD 33001 and VCD 34005; and visual communication design major.

**Schedule Type:** Studio

**Contact Hours:** 6 other

**Grade Mode:** Standard Letter

**VCD 43006 ENVIRONMENTAL GRAPHIC DESIGN 3 Credit Hours**

Aims at coordinating architectural planning, interior design systems analysis and graphic communications.

**Prerequisite:** None.

**Schedule Type:** Studio

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**VCD 43007 INFORMATION GRAPHICS 3 Credit Hours**

Introduction to shapes, color type and combinations of these for computer-designed news graphics; maps, charts, graphs and diagrams.

**Prerequisite:** JMC 20004 and VCD 13001.

**Schedule Type:** Laboratory, Lecture

**Contact Hours:** 3 lecture, 2 lab

**Grade Mode:** Standard Letter

**VCD 43008 BRANDED IDENTITY 3 Credit Hours**

The examination and development of graphic design forms as they pertain to corporate branding. Related methods of visual communication explored through studio.

**Prerequisite:** VCD 13000, 13001, 22000, 23001; and bachelor of arts (BA) in the visual communication design major.

**Schedule Type:** Studio

**Contact Hours:** 6 other

**Grade Mode:** Standard Letter

**VCD 43051 TYPE HIGH PRESS 3 Credit Hours**

Students will explore aspects of letterpress printing. Course content will include typesetting, printing basics, and a brief history of movable type printing and typography. Students will work on a series of projects to acclimate themselves to the equipment and various printing techniques.

**Prerequisite:** VCD 13000, 13001, 22000, 23001 and VCD 33000; and visual communication design major.

**Schedule Type:** Studio

**Contact Hours:** 6 other

**Grade Mode:** Standard Letter

**VCD 43060 INTRODUCTION TO TYPEFACE DESIGN 3 Credit Hours**

(Slashed with VCD 53060) This course will serve as an introduction to the core principles of typeface design. It is a fast paced and challenging course with a requirement for a high level of engagement and research on the part of the student. Building on skills learned in other VCD classes, this is an advanced level course dealing with the underlying themes in typeface design and their relationship to the typographer's needs.

**Prerequisite:** Visual communication design major within the bachelor of fine arts; and junior or senior standing.

**Schedule Type:** Studio

**Contact Hours:** 6 other

**Grade Mode:** Standard Letter



**VCD 43101 INTERACTION DESIGN II 3 Credit Hours**

(Slashed with VCD 53101) Students will continue their study of interaction design by working on two projects and two exercises. They will work to develop the content, to compile user research, structure the information architecture, design the interface and prototype their concepts. Students are encouraged to focus on a specific context and audience while demonstrating its use in a final prototype that represents a pathway of experience. Students will focus on the designer's role in the development of interactive spaces and communities, as well as the interdisciplinary exchange with other professionals (computer programmers, software developers, and marketing professionals). We will study human-computer interaction and focus on the needs of the user to create the best user experience. When possible, students will work on real-world projects that allow for collaboration with programmers and developers.

**Prerequisite:** VCD 43001.

**Schedule Type:** Studio

**Contact Hours:** 6 other

**Grade Mode:** Standard Letter

**VCD 44001 EXHIBITION DESIGN 3 Credit Hours**

The study of content, narrative development, consideration of space, and the use of materials and media in environmental and exhibition design. Includes working in scale, 2D and 3D rendering, physical and digital modeling.

**Prerequisite:** VCD 34005; and special approval.

**Schedule Type:** Studio

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**VCD 45000 GRAPHIC DESIGN PERSPECTIVES (WIC) 3 Credit Hours**

Comprehensive exploration of design through history. Topics include the early alphabet, print processes, illustration, photography, corporate design, modern design and digital processes.

**Prerequisite:** ENG 21011 or HONR 10297; and junior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Writing Intensive Course

**VCD 46000 WEB DESIGN AND PROGRAMMING I 3 Credit Hours**

(Slashed with VCD 56000) Course focus is on Web concepts and high-quality Web design; CS and VCD principles, tools, architecture, presentation, design and creation of websites through teamwork. Course is jointly taught by Computer Science and Visual Communication Design.

**Prerequisite:** CS 10051 and VCD 13001.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter-IP

**VCD 46001 WEB DESIGN AND PROGRAMMING II 3 Credit Hours**

(Slashed with VCD 56001) An elective course jointly taught by computer science and VCD on advanced web technologies and multimedia web design: web servers, security, advanced design, java servlets, applets, database connectivity, site maintenance, relation of actual websites by teamwork.

**Prerequisite:** VCD 46000.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter-IP

**VCD 46003 TYPOGRAPHY III 3 Credit Hours**

(Slashed with VCD 56003) Applying typographic rules in advanced projects. Organizing large amounts of text in complex architectures and designing viewer controlled space. Exploration of dynamic information sound and motion sequences. Prerequisite: VCD 43002

**Schedule Type:** Studio

**Contact Hours:** 6 other

**Grade Mode:** Standard Letter-IP

**VCD 48001 PHOTOGRAPHIC PROJECT 3 Credit Hours**

Provides students the opportunity to conceptualize, organize and produce a semester-long photographic project of their choice under the supervision of the course instructor. Projects will augment students' existing photographic portfolios.

**Prerequisite:** Photography major; and special approval.

**Schedule Type:** Studio

**Contact Hours:** 6 other

**Grade Mode:** Standard Letter

**VCD 48002 ADVANCED PHOTOGRAPHIC PROJECT 3 Credit Hours**

Continuation of VCD 48001. Each student will conceptualize, organize and produce a semester-long photographic project of their choice under the supervision of the course instructor. Projects will augment students' existing photographic portfolios.

**Prerequisite:** VCD 48001.

**Schedule Type:** Studio

**Contact Hours:** 6 other

**Grade Mode:** Standard Letter

**VCD 48003 PROFESSIONAL PORTFOLIO PHOTOGRAPHY 3 Credit Hours**

Students will create personal, professional portfolios (electronic and hard copy) developed through branding and identity explorations. Each portfolio will be a blend of the student's best work and career path desires and expressed through sophisticated gridding and design principles. Students will also develop and hang an exhibition of their student work in the Taylor Hall art gallery.

**Prerequisite:** Photography major; and special approval.

**Schedule Type:** Studio

**Contact Hours:** 6 other

**Grade Mode:** Satisfactory/Unsatisfactory

**VCD 48005 COLOR PHOTOGRAPHY 3 Credit Hours**

The depth of Color Photography is explored through a range of lectures, assignments, and critiques. Topics include: Color Theory, Psychology, Cultural Influences and Relationships. Also color perception, color models and gamut, digital color correction, color management. Management and control of output in printing is studied in-depth throughout the semester. All the above will be explored through both lectures and photographic assignments.

**Prerequisite:** VCD 28003 and VCD 38004; and photography or visual communication design major.

**Schedule Type:** Studio

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter



**VCD 48008 ADVANCED DIGITAL IMAGING 3 Credit Hours**

This course emphasizes advanced techniques in the use of image editing software to develop workflow techniques and post-production and editing skills. Technical information will be supplemented with a series of photographic assignments that explore advanced application and usage of tools and skills covered as well as new Additional explorations into current digital technologies such as virtual reality, CGI generated imagery and compositing with made photography, Advanced compositing of multiple shoots into cohesive wholes, etc. Software used includes Photoshop, Lightroom, and Capture One Pro.

**Prerequisite:** VCD 38004 and VCD 28003; and photography major or minor or visual communication design major.

**Schedule Type:** Studio

**Contact Hours:** 6 other

**Grade Mode:** Standard Letter

**VCD 48009 FASHION PHOTOGRAPHY 3 Credit Hours**

Emphasis on editorial and advertising fashion photography. Students will explore: Fashion shoot protocols and techniques; Studio and Location Lighting Techniques, History and Theory of Fashion Photography, Fashion Shoot management. In partial collaboration with Fashion School BFA students along with live models on both studio and location shoots. The technical information will be supplemented with a series of photographic project assignments both in studio and on location.

**Prerequisite:** VCD 28003 and VCD 38004; and photography or visual communication design major.

**Schedule Type:** Studio

**Contact Hours:** 1 lecture, 4 other

**Grade Mode:** Standard Letter

**VCD 48092 PRACTICUM IN PHOTOGRAPHY (ELR) 1-3 Credit Hours**

(Repeatable for a total of 10 hours) Individual or group investigation into student selected areas of photographic field.

**Prerequisite:** Photography or visual communication design major; and junior and senior standing.

**Schedule Type:** Practical Experience

**Contact Hours:** 7-21 other

**Grade Mode:** Standard Letter

**Attributes:** Experiential Learning Requirement

**VCD 49198 SENIOR RESEARCH PAPER:GRAPHIC DESIGN/ ILLUSTRATION (ELR) (WIC) 2 Credit Hours**

Written documentation of a senior project in graphic design or illustration. If VCD 49199 Senior Project Graphic Design/Illustration is chosen, it must be taken concurrently with Senior Research paper and presented for final review by a faculty committee.

**Prerequisite:** Senior standing.

**Schedule Type:** Research

**Contact Hours:** 2 other

**Grade Mode:** Standard Letter-IP

**Attributes:** Experiential Learning Requirement, Writing Intensive Course

**VCD 49199 CAPSTONE PROJECT (ELR) 3 Credit Hours**

A capstone project in design, illustration, or photography structured by the student (with approval by faculty), culminating in a final presentation or exhibit.

**Prerequisite:** Photography major or Visual Communication Design major; and senior standing; and special approval.

**Schedule Type:** Project or Capstone, Studio

**Contact Hours:** 6 other

**Grade Mode:** Standard Letter-IP

**Attributes:** Experiential Learning Requirement

**VCD 50000 BASIC COMPUTER GRAPHIC DESIGN/ILLUSTRATION 2 Credit Hours**

An introduction to the use of the computer as a tool in graphic design and illustration. Exploration of the relationship and integration of various hardware configurations and software solutions to meet the demands of today's designers and illustrators.

**Prerequisite:** Graduate standing.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 2 other

**Grade Mode:** Standard Letter-IP

**VCD 50003 INTERMEDIATE COMPUTER DESIGN-GD I VARIOUS SOFTWARE 3 Credit Hours**

Addresses the issues of page layout and design, digital manipulation and vector graphic illustration for graphic design professionals.

**Prerequisite:** Visual communication design majors; and graduate standing.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 2 lecture, 2 lab

**Grade Mode:** Standard Letter

**VCD 50025 PROFESSIONAL PORTFOLIO 3 Credit Hours**

(Slashed with VCD 40025) Develop a professional portfolio through selection and refinement of previously completed classroom work development of projects in areas of deficiency with emphasis on organization and presentation.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Studio

**Contact Hours:** 6 other

**Grade Mode:** Satisfactory/Unsatisfactory

**VCD 50052 GRAPHIC DESIGN-TRAVEL AND FIELD EXPERIENCE 1-6 Credit Hours**

(Repeatable for credit) Development of awareness and understanding in the practical application of graphic design and communication through directed field trip experience. Repeatable for a total of 16 credit hours.

**Prerequisite:** Graduate standing.

**Schedule Type:** Studio

**Contact Hours:** 1-6 other

**Grade Mode:** Standard Letter

**VCD 50053 GRAPHIC DESIGN STUDIO-GLYPHIX 1-6 Credit Hours**

(Repeatable for a maximum of 12 credit hours) Professional experience through an internal design studio. Involves responsibilities and procedures for the production of communication materials for off campus clients including non-profit organizations charities arts groups and selected on campus groups and departments.

**Prerequisite:** Graduate standing.

**Schedule Type:** Studio

**Contact Hours:** 1-6 other

**Grade Mode:** Standard Letter-IP

**VCD 50092 INTERNSHIP-GRAPHIC DESIGN AND ILLUSTRATION 1-6 Credit Hours**

(Repeatable for credit) Experience in design studio, agency or company involving design responsibilities and procedures to broaden a student's understanding of the profession through a real job situation.

**Prerequisite:** Graduate standing.

**Schedule Type:** Practical Experience

**Contact Hours:** 1-6 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**VCD 50095 SPECIAL TOPICS IN GRAPHIC DESIGN/ILLUSTRATION 3 Credit Hours**

(Repeatable for a maximum of 9 credit hours) To broaden the course offerings into specialized areas of study in graphic design and illustration taught by experts in the profession as a guest faculty. Primarily used to fulfill electives in graphic design or illustration.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Studio

**Contact Hours:** 5 other

**Grade Mode:** Standard Letter-IP

**VCD 50193 VARIABLE TITLE WORKSHOP IN VCD 1-3 Credit Hours**

(Repeatable for credit) Workshop setting dealing with intensive examination of special topics in VCD.

**Prerequisite:** Graduate standing.

**Schedule Type:** Workshop

**Contact Hours:** 1-3 other

**Grade Mode:** Satisfactory/Unsatisfactory

**VCD 50195 SELECTED TOPICS GRAPHIC DESIGN AND ILLUSTRATION 1-4 Credit Hours**

(Repeatable for credit) Variable topics related to graphic design and illustration.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 1-4 lecture

**Grade Mode:** Standard Letter

**VCD 52000 ADVANCED ILLUSTRATION/MEDIA 3 Credit Hours**

Discussions and practice of media and grounds as they pertain to the illustration field. Discussion will also center around the problems in developing work of reproduction.

**Prerequisite:** Visual communication design major; and graduate standing.

**Schedule Type:** Studio

**Contact Hours:** 5 other

**Grade Mode:** Standard Letter

**VCD 52002 EDITORIAL ILLUSTRATION 3 Credit Hours**

Exploration and discussion of various illustration techniques and their application in the publishing field. Emphasis is placed on client needs, concept and intended audience.

**Prerequisite:** Visual communication design major; and graduate standing.

**Schedule Type:** Studio

**Contact Hours:** 5 other

**Grade Mode:** Standard Letter

**VCD 52003 ADVERTISING ILLUSTRATION 3 Credit Hours**

Exploration and discussion of various illustration techniques and their application in advertising. Emphasis is placed on client need, concept of solution and intended audience.

**Prerequisite:** Visual communication design major; and graduate standing.

**Schedule Type:** Studio

**Contact Hours:** 5 other

**Grade Mode:** Standard Letter

**VCD 52005 CHARACTER DEVELOPMENT AND DESIGN 3 Credit Hours**

(Slashed with VCD 42005) Focuses on the application of the fundamental design principles and mechanics used when designing characters for film animation, television animation, computer animation, video games, comic strips, comic books, advertising, editorial illustration and book illustration. Students must demonstrate proficiency in drawing to register for this course.

**Prerequisite:** Graduate standing.

**Schedule Type:** Studio

**Contact Hours:** 6 other

**Grade Mode:** Standard Letter

**VCD 52006 CHARACTER DEVELOPMENT AND DESIGN: ANIMALS AND ENVIRONMENTS 3 Credit Hours**

(Slashed with VCD 42006) This course focuses on the application of fundamental design principles and mechanics used when designing characters for film animation, television animation, computer animation, video games, comic strips, comic books, book illustration, advertising, and editorial illustration.

**Prerequisite:** Master of fine arts (MFA) or master of arts (MA) in visual communication design major; and graduate standing.

**Schedule Type:** Studio

**Contact Hours:** 6 other

**Grade Mode:** Standard Letter

**VCD 52007 GRAPHIC NARRATIVE 3 Credit Hours**

(Slashed with VCD 42007) This course fuses written and visual content, allowing students to both author and illustrate visual narratives. Through readings, various genres of written form are explored and both historical and emerging narrative formats within the field of illustration are emphasized.

**Prerequisite:** Master of fine arts (MFA) or master of arts (MA) in visual communication design (VCD); and graduate standing.

**Schedule Type:** Studio

**Contact Hours:** 6 other

**Grade Mode:** Standard Letter

**VCD 53000 STUDIO PRODUCTION 3 Credit Hours**

A technical lecture course designed to teach the fundamental techniques and processes of electronic prepress and printing production. This material is presented through a series of lectures, demos, written tests and field trips.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**VCD 53001 INTERACTION DESIGN I 3 Credit Hours**

(Slashed with VCD 43001) The conceptualization and prototyping of interactive experiences.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Studio

**Contact Hours:** 6 other

**Grade Mode:** Standard Letter

**VCD 53002 TYPOGRAPHY II 3 Credit Hours**

(Slashed with VCD 43002) The use of typography (rather than visual imagery) as the primary design form in solving graphic communication problems.

**Prerequisite:** Visual communication design major; and graduate standing.

**Schedule Type:** Studio

**Contact Hours:** 6 other

**Grade Mode:** Standard Letter

**VCD 53003 IDENTITY SYSTEMS 3 Credit Hours**

(Slashed with VCD 43003) Use of graphic design forms (typography, photography and illustration) in the development of corporate identification for total advertising programs.

**Prerequisite:** Visual communication design major; and graduate standing.

**Schedule Type:** Studio

**Contact Hours:** 6 other

**Grade Mode:** Standard Letter

**VCD 53004 PROFESSIONAL COMMUNICATION FOR DESIGN 3 Credit Hours**

(Slashed with VCD 43004) Designed to familiarize students with the basic business, marketing, legal and ethical standards in the graphic design industry.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**VCD 53005 PACKAGING, PROMOTION AND RETAIL ENVIRONMENTS 3 Credit Hours**

(Slashed with VCD 43005) Use of typography and visual images, photography and illustrations, in the structure of information for communication on 3D surfaces: direct mail, packaging and point of purchase display.

**Prerequisite:** Visual communication design major; and graduate standing; and special approval.

**Schedule Type:** Studio

**Contact Hours:** 6 other

**Grade Mode:** Standard Letter

**VCD 53006 ENVIRONMENTAL GRAPHIC DESIGN 3 Credit Hours**

Aims at coordinating architectural planning, interior design systems analysis and graphic communications. Also includes and individually directed research component.

**Prerequisite:** Graduate standing.

**Schedule Type:** Studio

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**VCD 53007 INFORMATION GRAPHICS 2 Credit Hours**

Introduction to shapes, color, type and combinations of these for computer- designed news graphics; maps, charts, graphs and diagrams.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**VCD 53051 TYPE HIGH PRESS 3 Credit Hours**

(Repeatable for a maximum of 12 credit hours) Students will explore aspects of letterpress printing. Course content will include typesetting, printing basics, and a brief history of movable type printing and typography. Students will work on a series of projects to acclimate themselves to the equipment and various printing techniques.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Studio

**Contact Hours:** 5 other

**Grade Mode:** Standard Letter

**VCD 53060 INTRODUCTION TO TYPEFACE DESIGN 3 Credit Hours**

(Slashed with VCD 43060) This course will serve as an introduction to the core principles of typeface design. It is a fast paced and challenging course with a requirement for a high level of engagement and research on the part of the student. Building on skills learned in other VCD classes, this is an advanced level course dealing with the underlying themes in typeface design and their relationship to the typographer's needs.

**Prerequisite:** Visual communication design major; and graduate standing.

**Schedule Type:** Studio

**Contact Hours:** 6 other

**Grade Mode:** Standard Letter

**VCD 53101 INTERACTION DESIGN II 3 Credit Hours**

(Slashed with VCD 43101) Students will be continue their study of interaction design by working on two projects and two exercises. They will work to develop the content, to compile user research, structure the information architecture, design the interface and prototype their concepts. Students are encouraged to focus on a specific context and audience while demonstrating its use in a final prototype that represents a pathway of experience. Students will focus on the designer's role in the development of interactive spaces and communities, as well as the interdisciplinary exchange with other professionals (computer programmers, software developers, and marketing professionals). We will study human-computer interaction and focus on the needs of the user to create the best user experience. When possible, students will work on real-world projects that allow for collaboration with programmers and developers

**Prerequisite:** Graduate standing.

**Schedule Type:** Studio

**Contact Hours:** 6 other

**Grade Mode:** Standard Letter

**VCD 55000 GRAPHIC DESIGN PERSPECTIVES 3 Credit Hours**

Comprehensive exploration of design through history. Topics include the early alphabet, print processes, illustration, photography, corporate design, modern design and digital processes.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**VCD 56000 WEB DESIGN AND PROGRAMMING I 3 Credit Hours**

(Slashed with VCD 46000) Course focus is on web concepts and high quality web design; CS and VCD principles, tools, architecture, presentation, design and creation of websites through teamwork. Course is jointly taught by CS and VCD.

**Prerequisite:** Visual communication design major; and graduate standing.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 2 lecture, 2 lab

**Grade Mode:** Standard Letter-IP

**VCD 56001 WEB DESIGN AND PROGRAMMING II 3 Credit Hours**

(Slashed with VCD 46001) Advanced course in web technologies and multimedia web design: web servers, security, advanced design, java servlets, applets, database connectivity, site maintenance, relation of actual websites by teamwork. Course is jointly taught by CS and VCD.

**Prerequisite:** Visual communication design major; and graduate standing.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 2 lecture, 2 lab

**Grade Mode:** Standard Letter-IP

**VCD 56003 TYPOGRAPHY III 3 Credit Hours**

(Slashed with VCD 46003) Applying typographic rules in advanced projects. Organizing large amounts of text in complex architectures and designing viewer controlled space. Exploration of dynamic information sound and motion sequences.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Studio

**Contact Hours:** 6 other

**Grade Mode:** Standard Letter

**VCD 60009 CANDIDACY REVIEW/GRAPHIC DESIGN AND ILLUSTRATION 1 Credit Hour**

A formal review of the work completed in the first 12 semester credit hours of graphic design and/or illustration courses for both M.F.A. and M.A.

**Prerequisite:** Graduate standing.

**Schedule Type:** Individual Investigation

**Contact Hours:** 1 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**VCD 60010 DESIGN RESEARCH METHODS 3 Credit Hours**

Introductory course to the design research methods employed in the professional practice of visual communication design. Students will gain an understanding of research strategies, tactics and tools, and will apply their use through a combination of readings, videos, online discussion and a final cumulative project. Focus will be directed on the design process, research and ideation skills, and understanding research methods in the context of today's design profession.

**Prerequisite:** Visual communication design major; and graduate standing.

**Schedule Type:** Seminar

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**VCD 60011 TYPOGRAPHIC STRUCTURES AND SYSTEMS 3 Credit Hours**

Serves as an intensive introduction to typography and its application in visual communication design. Students will learn to create successful typographic compositions by controlling hierarchy, contrast, space, and grids. The course also covers the organization of information, and facilitates discussion and creative work on the effects of type choice and style in communication. Students will be familiarized with typography for print and screen-based environments.

**Prerequisite:** Visual communication design major; and graduate standing.

**Schedule Type:** Studio

**Contact Hours:** 6 other

**Grade Mode:** Standard Letter

**VCD 60012 CONCEPT DEVELOPMENT AND IMPLEMENTATION 3 Credit Hours**

Serves as an intensive introduction to conceptual development and how it is implemented with form in visual communication design.

**Prerequisite:** VCD 60011; and visual communication design major; and graduate standing.

**Schedule Type:** Studio

**Contact Hours:** 6 other

**Grade Mode:** Standard Letter

**VCD 60013 GRAPHIC DESIGN ADVANCED 3 Credit Hours**

Builds on typography and concept development. Students will gain experience combining layout, concept and problem-solving methodologies through a series of exercises and problems. Projects facilitate the student's ability to employ narrative and storytelling methods, along with design research, analysis, documentation and implementation. The structure of this course is designed to foster self-initiative. Exercises will be completed outside class time and students will be given a great amount of flexibility as they frame projects and decipher solutions to problems.

**Prerequisite:** VCD 60010; and VCD 60011; and VCD 60012; and visual communication design major; and graduate standing.

**Schedule Type:** Studio

**Contact Hours:** 6 other

**Grade Mode:** Standard Letter

**VCD 60020 GRADUATE STUDIO IN VISUAL COMMUNICATION DESIGN 3 Credit Hours**

(Repeatable for a maximum of 6 credit hours) Research based, hands-on studio course providing a context for collaborative and individual projects in design, illustration and/or photography.

**Prerequisite:** Visual communication design major; and graduate standing.

**Schedule Type:** Studio

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter-IP

**VCD 60091 GRADUATE SEMINAR IN VISUAL COMMUNICATION DESIGN 3 Credit Hours**

(Repeatable for credit) Focuses on design theory and research methodologies pertaining to design. Content consists mostly of readings, discussions and student presentations.

**Prerequisite:** Visual communication design major; and graduate standing.

**Schedule Type:** Seminar

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter-IP

**VCD 60094 COLLEGE TEACHING IN VISUAL COMMUNICATION DESIGN 3 Credit Hours**

For VCD student teaching or who anticipate teaching in higher education. This experience also supports future careers in management, art direction and instructional roles in industry. Discussions include grading, critiques, classroom management and evaluation techniques.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**VCD 60095 SPECIAL TOPICS IN GRAPHIC DESIGN/ILLUSTRATION 1-4 Credit Hours**

(Repeatable for a maximum of 16 credit hours) To broaden course offerings into specialized areas of study in graphic design and illustration taught by experts in the profession as guest faculty. Used to fulfill primary studio requirements in graphic design and or illustration.

**Prerequisite:** Graduate standing.

**Schedule Type:** Studio

**Contact Hours:** 1-4 other

**Grade Mode:** Standard Letter-IP



**VCD 60096 INDIVIDUAL INVESTIGATION IN GRAPHIC DESIGN AND ILLUSTRATION 1-16 Credit Hours**

(Repeatable for credit) Individual investigation related to topics of graphic design and illustration approved and under the direction of a faculty member.

**Prerequisite:** Graduate standing.

**Schedule Type:** Individual Investigation

**Contact Hours:** 1-16 other

**Grade Mode:** Standard Letter-IP

**VCD 60098 RESEARCH 1-15 Credit Hours**

(Repeatable for credit) Independent research under the direction of a faculty member in the division of design/illustration.

**Prerequisite:** Graduate standing.

**Schedule Type:** Research

**Contact Hours:** 1-15 other

**Grade Mode:** Standard Letter

**VCD 60099 M.A. PROJECT GRAPHIC DESIGN AND ILLUSTRATION 4 Credit Hours**

A research project for non-thesis option M.A. students approved in consultation with the faculty adviser which culminates in a visual project exhibition and formal presentations.

**Prerequisite:** Graduate standing.

**Schedule Type:** Research

**Contact Hours:** 4 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**VCD 60120 USER EXPERIENCE DESIGN PRINCIPLES AND CONCEPTS 3 Credit Hours**

Students explore the context in which User Experience Design exists and the various methods employed by designers in various fields related to design research, the generation of ideas, and implementation of designs. Students are introduced to methods of design evaluation and to the conceptual framework of the related curricula.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**VCD 60121 USER EXPERIENCE DESIGN IN PRACTICE 3 Credit Hours**

Students learn and employ methods for engaging in creative problem solving. Introduce students to design research methods and current research on human behavior as it applies to user experience design. A core set of design deliverables are examined. Students begin to develop individual portfolio materials.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**VCD 60171 CRITICAL PRACTICES IN DESIGN RESEARCH 3 Credit Hours**

(Repeatable for credit) (Slashed with VCD 80171) This graduate seminar course introduces methods for integrating critical practices into larger communication design research agendas. The term "critical practices" includes three areas of design-centered inquiry: critical design, critical making, and design authorship.

**Prerequisite:** Master of fine arts (MFA) or master of arts (MA) in visual communication design major; and graduate standing.

**Schedule Type:** Seminar

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**VCD 60191 ADVANCED RESEARCH 3 Credit Hours**

Serves as the research intensive continuation of VCD 60091 Graduate Seminar. Students will focus on the development of their MFA thesis proposals by identifying a topic, investigating relevant literature and media, developing a thesis statement, and writing the full thesis proposal. Deliverables include a finished MFA thesis proposal, research schedule, and corresponding logic model.

**Prerequisite:** VCD 60091 and VCD 60094; and visual communication design major; and graduate standing.

**Schedule Type:** Seminar

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**VCD 60200 DESIGN THEORY I: CULTURE, COMMUNITIES AND CONTEXT 3 Credit Hours**

(Slashed with VCD 80200) Introduces students to design theory through a lens of classic and contemporary readings taken from various disciplines. This survey of perspectives assists students in developing their individual voice as a designer. Delves into issues that affect the field of graphic design and will continue to shape culture and history. Students are asked to question ideas of community and to expand on their ideas with examples through media and technology. Students critically question notions of history, psychology and social behaviors. The writing and criticism of advertising, communication, design artifacts and culture are the primary communication tool of the class, which is completed through papers and personal reflections.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**VCD 68199 M.A.THESIS I 2-6 Credit Hours**

Thesis students must register for a minimum of 6 hours, 2-6 hours in a single semester or distributed over several semesters if desired.

**Prerequisite:** Graduate standing.

**Schedule Type:** Masters Thesis

**Contact Hours:** 2-6 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**VCD 68299 M.A.THESIS II 2 Credit Hours**

Thesis students must continue registration each semester until all degree requirements are met.

**Prerequisite:** VCD 68199; and graduate standing.

**Schedule Type:** Masters Thesis

**Contact Hours:** 2 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**VCD 69199 M.F.A. THESIS I 2-6 Credit Hours**

Thesis students must register for a minimum of 6 hours; 2 -6 hours in a single semester or distributed over several semesters if desired.

**Prerequisite:** Graduate standing.

**Schedule Type:** Masters Thesis

**Contact Hours:** 2-6 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**VCD 69299 M.F.A. THESIS II 2 Credit Hours**

Thesis students must continue registration each semester until all degree requirements are met.

**Prerequisite:** VCD 69199; and graduate standing.

**Schedule Type:** Masters Thesis

**Contact Hours:** 2 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP



**VCD 80171 CRITICAL PRACTICES IN DESIGN RESEARCH 3 Credit Hours**

(Repeatable for credit) (Slashed with VCD 60171) This graduate seminar course introduces methods for integrating critical practices into larger communication design research agendas. The term “critical practices” includes three areas of design-centered inquiry: critical design, critical making, and design authorship. This course is not repeatable.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Seminar

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**VCD 80200 DESIGN THEORY I: CULTURE, COMMUNITIES AND CONTEXT 3 Credit Hours**

(Slashed with VCD 60200) Introduces students to design theory through a lens of classic and contemporary readings taken from various disciplines. This survey of perspectives assists students in developing their individual voice as a designer. The class delves into issues that affect the field of graphic design and will continue to shape culture and history. Students are asked to question ideas of community and to expand on their ideas with examples through media and technology. Students critically question notions of history, psychology and social behaviors. The writing and criticism of advertising, communication, design artifacts and culture are the primary communication tool of the class, which is completed through papers and personal reflections.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

## Communication and Information - Ph.D.

**College of Communication and Information**

314 University Library

Kent Campus

330-672-2950

ccikent@kent.edu

www.kent.edu/ci

### Description

The Ph.D. degree in Communication and Information prepares individuals for traditional and emerging careers in teaching, research and administration in the converging fields of communication and information. The degree program consists of a prescribed core of interdisciplinary courses and varied selection of elective coursework within and across disciplines. The study is flexibly structured and designed to provide both an integrative and historical overview, as well as specializations in communication (media, technology and society; global communication; interpersonal communication) and information (human information behavior; cultural heritage informatics; knowledge organization).

**Fully Offered At:**

- Kent Campus

## Admission Requirements

- Completion of the academic requirements of a master's degree in one of the disciplines represented in the College of Communication and Information or a discipline closely related to the applicant's proposed course of study.<sup>1</sup> for unconditional admission
- Minimum 3.300 graduate GPA on a 4.000 point scale (3.500 GPA or higher is recommended) for unconditional admission
- Official transcript(s)
- Goal Statement<sup>2</sup>
- Letters of recommendation from those in a position to evaluate graduate academic performance and potential
- Sample of superior scholarly writing (published paper, major term paper, thesis chapter, etc.).
- English language proficiency - all international students must provide proof of English language proficiency (unless they meet specific exceptions) by earning one of the following:
  - Minimum 587 TOEFL PBT score (paper-based version)
  - Minimum 94 TOEFL IBT score (Internet-based version)
  - Minimum 82 MELAB score
  - Minimum 7.0 IELTS score
  - Minimum 65 PTE score
  - Minimum 120 Duolingo English Test score

The Ph.D. degree is strongly research oriented. Applicants are expected to demonstrate previous research experience such as thesis or conference paper. Admission will be restricted to the most promising applicants, applicants are strongly encouraged to include a CV with their application. Applications are viewed holistically to evaluate the student's likelihood of success in the program. Applicants normally are accepted for admission only for the fall semester and for full-time enrollment. Applicants who do not meet all of the requirements listed above but who have otherwise exceptional credentials may apply and may be admitted conditionally. To ensure full consideration for funding opportunities, all application materials must be received by January 2. The program will continue to review applications through March 31 or until all available spaces filled. Late applicants are encouraged to submit materials as soon as possible.

For more information about graduate admissions, please visit the Graduate Studies admission website. For more information on international admission, visit the Office of Global Education's admission website.

<sup>1</sup> Applicants with academic preparation in other fields may be required to enroll in preparatory coursework at the master's level that will not count toward the Ph.D. degree.

<sup>2</sup> The goal statement must describe the applicant's academic goals and intended topics of study that are compatible with the focus of the doctoral program including area of specialization based on the six specializations. It is expected that this statement will clearly indicate why the applicant wishes to pursue doctoral education. Included in the statement should be an indication of the theoretical area or areas the applicant wishes to study and the line of research the applicant wishes to pursue. Statements that make reference only to the applicant's teaching or administrative goals are strongly discouraged.

## Program Learning Outcomes

Graduates of this program will be able to:

1. Demonstrate comprehensive knowledge of an area of expertise within one or more disciplines within the field of communication and information.
2. Produce doctoral dissertations that advance existing areas of scholarly investigation within the field of communication and information.
3. Be prepared to succeed as research-oriented, tenure-track faculty at research universities.

## Program Requirements

### Major Requirements

Code	Title	Credit Hours
<b>Major Requirements</b>		
CCI 80000	FOUNDATIONS OF COMMUNICATION AND INFORMATION INQUIRY	3
CCI 80001	FOUNDATIONS OF RESEARCH AND SCHOLARSHIP IN COMMUNICATION AND INFORMATION	3
CCI 80097	COLLOQUIUM IN COMMUNICATION AND INFORMATION	4
CCI 80199	DISSERTATION I <sup>1</sup>	30
Advisor Approved Theory Courses from the College of Communication and Information		6
Quantitative Research Methods Course		3
Qualitative Research Methods Course		3
Additional Methods Courses <sup>2</sup>		6
Electives <sup>3</sup>		12
Minimum Total Credit Hours:		70

<sup>1</sup> Each doctoral candidate, upon admission to candidacy, must register for CCI 80199 for a total of 30 credit hours. It is expected that a doctoral candidate will continuously register for CCI 80199 for each semester, until all requirements for the degree have been met.

<sup>2</sup> Choose two courses from any subject area.

<sup>3</sup> Courses in the elective category are selected with the approval of the student's advisor and supervisory committee to support the student's research interests. Students planning to enter the professoriate should include CCI 80094 in their electives.

### Graduation Requirements

- The Ph.D. degree in Communication and Information requires a minimum of 40 credit hours of graduate coursework beyond the master's degree and 30 credit hours of dissertation work for a total of 70 credit hours.
- Students should begin developing their programs of study during their first semester and have them approved by the time they have completed 15 credit hours. Students may adopt templates for study in such areas as media, technology and society; cultural heritage information; knowledge organization; human information behavior; global communication; and interpersonal communication. All proposed programs of study are subject to review by the Doctoral Studies Committee as well as by the students' committee(s). Students are expected to become engaged in a variety of research projects before they begin dissertation work.

## CANDIDACY REQUIREMENTS

To achieve candidacy, doctoral students must pass the doctoral comprehensive examination.

## Media Advocacy - Minor

### College of Communication and Information

314 University Library  
Kent Campus  
330-672-2950  
ccikent@kent.edu  
www.kent.edu/ci

## Description

The Media Advocacy minor prepares students to explore advocacy as both a professional discipline and an act of engaged citizenship by equipping them with theoretical and applied approaches for achieving meaningful social, political and cultural change through the use of media tools and concepts. The minor will deepen student understanding of individual activism, group advocacy and social movements. The required and elective courses will help students understand how to apply story-based strategies to create shared meaning, draw attention to societal issues and organize others to take action. It will also prepare students to understand how media shape individual decision making, public discourse and public opinion.

### Fully Offered At:

- Kent Campus

## Admission Requirements

Admission to a minor is open to students declared in a bachelor's degree, the A.A.B. or A.A.S. degree or the A.T.S. degree (not Individualized Program major). Students declared only in the A.A. or A.S. degree or the A.T.S. degree in Individualized Program may not declare a minor. Students may not pursue a minor and a major in the same discipline.

## Program Learning Outcomes

Through this minor, students will be able to:

1. Explore advocacy by studying social movement theories, organizing models and the history and role of communication and media on advocacy efforts.
2. Understand and examine the power of story-based strategies in developing compelling change narratives, gaining public awareness and commitment and mobilizing sustainable collective action.
3. Understand, apply and critically analyze the core components of story-based strategies, such as underlying assumptions, framing, narrative power, conflict and use of evidence.
4. Develop a useful toolkit of nonviolent mobilization strategies and tactics.
5. Critically examine the role of traditional and digital media in framing and covering transformational change efforts.
6. Explore the critical elements of advocacy communication, including persuasive communication using all media, speechwriting, argumentation, testimony writing.
7. Practice experiential advocacy by applying media tools and the specific skills of their disciplines to advocacy problems.

## Minor Requirements

Code	Title	Credit Hours
<b>Minor Requirements</b>		
CCI 20001	INTRODUCTION TO MEDIA ADVOCACY	3
COMM 35464	ARGUMENTATION AND PERSUASIVE COMMUNICATION	3
CCI 45091	SEMINAR IN MEDIA AND MOVEMENTS (ELR)	3
Minor Electives, choose from the following:		9
ADED 20000	TOPICS IN SOCIAL JUSTICE IN TEACHING AND LEARNING	
CCI 45091	SEMINAR IN MEDIA AND MOVEMENTS (ELR)	
COMM 45007	FREEDOM OF SPEECH	
HDFS 44033	COMMUNITY OUTREACH IN NONPROFIT MANAGEMENT (ELR)	
JMC 21001	PRINCIPLES OF ADVERTISING	
PACS 31003	NONVIOLENCE: THEORY AND PRACTICE	
PH 35005	ADVOCACY AND ACTIVISM IN PUBLIC HEALTH	
PH 44025	PRINCIPLES OF PUBLIC HEALTH LEADERSHIP	
VCD 13000	DESIGN: PRINCIPLES, PROCESSES AND PRACTICE	
Minimum Total Credit Hours:		18

## Graduation Requirements

Minimum Minor GPA	Minimum Overall GPA
2.000	2.000

- Minimum 6 credit hours in the minor must be upper-division coursework (30000 and 40000 level).
- Minimum 6 credit hours in the minor must be outside of the course requirements for any major or other minor the student is pursuing.
- Minimum 50 percent of the total credit hours for the minor must be taken at Kent State (in residence).

## School of Communication Studies

### College of Communication and Information

School of Communication Studies

201 Taylor Hall

Kent Campus

330-672-2659

comm@kent.edu

www.kent.edu/comm

## Undergraduate Programs

- Communication Studies - B.A.

## Minors

- Communication Studies
- Global Communication
- Health Communication
- Interpersonal Communication
- Organizational Communication
- Public Communication

## Graduate Programs

- Communication Studies - M.A.

## School of Communication Studies Faculty

- Bacue, Aaron E. (2015), Associate Lecturer, M.A., University of Delaware, 1999
- Beam, Michael A. (2014), Associate Professor, Ph.D., The Ohio State University, 2012
- Bentley, Laurie S. (1994), Associate Lecturer, M.A., Kent State University, 1996
- Bihn-Coss, Ginger F. (2014), Assistant Professor, Ph.D., Bowling Green State University, 2003
- Cai, Bei (2002), Associate Professor
- Child, Jeffrey T. (2007), Professor, Ph.D., North Dakota State University, 2007
- Choi, Mina (2019), Assistant Professor, Ph.D., University of Wisconsin, Milwaukee, 2014
- Compton, Cristin (2017), Assistant Professor, Ph.D., University of Missouri-Columbia, 2016
- D'Enbeau, Suzy M. (2013), Associate Professor, Ph.D., Purdue University, 2009
- Dillon, Patrick J. (2016), Assistant Professor
- Egbert-Scheibelhoffer, Nichole L. (2000), Professor, Ph.D., University of Georgia, 2000
- Goodall, Catherine E. (2009), Associate Professor, Ph.D., The Ohio State University, 2009
- Graham, Elizabeth E. (2016), Professor & School Director, Ph.D., Kent State University, 1987
- Haridakis, Paul M. (1996), Professor, Ph.D., Kent State University, 2000
- Hollenbaugh, Erin E. (2003), Associate Professor, Ph.D., Kent State University, 2008
- Kaptan, Yesim (2016), Assistant Professor, Ph.D., Indiana University, 2010
- Lin, Mei-Chen (2003), Associate Professor, Ph.D., University of Kansas, 2003
- McCullough, Jennifer L. (2010), Assistant Professor, Ph.D., The Ohio State University, 2007
- Meyer, Janet R. (1998), Associate Professor, Ph.D., University of Michigan, 1989
- Ponder, James D. (2007), Assistant Professor, Ph.D., Kent State University, 2012
- Sharma, Rekha (2000), Associate Professor, M.A., Kent State University, 2004
- Silva, David E. (2019), Assistant Professor
- Sommer, Paul (2015), Assistant Professor, Ph.D., Texas A&M University, Main Campus, 2016
- Toumi, Ikram (2017), Assistant Professor, Ph.D., University of Texas at Austin, 2016
- Waite, Lisa A. (1991), Senior Lecturer, M.A., University of Akron, 1985
- Workneh, Tewodros (2016), Assistant Professor, Ph.D., University of Oregon, 2014

## Communication Studies (COMM)

### COMM 15000 INTRODUCTION TO HUMAN COMMUNICATION (KADL) 3 Credit Hours

An inquiry into the nature and function of human communication in interpersonal, group and public contexts.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Kent Core Additional, TAG Communication, Transfer Module Composition

### COMM 20000 FOUNDATIONS OF COMMUNICATION 3 Credit Hours

The foundations of communication studies course serves as an introduction to the major. Provides an introduction to communication studies faculty, research and the major concentrations of the school; highlights possible careers in communication studies; and introduces possible ways students can supplement curriculum efforts through involvement.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

### COMM 20001 INTERPERSONAL COMMUNICATION 3 Credit Hours

Introduction to human interpersonal communication. Components and structures situations and contexts are described nonevaluative focus with emphasis on informal experience.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** TAG Communication

### COMM 21000 COMMUNICATION GRAMMAR REVIEW 1 Credit Hour

Designed to increase grammar, punctuation, spelling and syntax skills and proficiency. Students must earn a minimum C grade to fulfill the grammar requirement.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 1 lecture

**Grade Mode:** Standard Letter

### COMM 25863 BUSINESS AND PROFESSIONAL COMMUNICATION 3 Credit Hours

Fundamentals of public and conference speaking, conducting meetings, electronic presentations, interviewing and interpersonal relations as applied to business and organizational settings.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

### COMM 25902 COMMUNICATION THEORY 3 Credit Hours

Study of the process of human communication. Emphasis on source, message, channel and receiver dimensions of communication. Examination of major theories of communication and social influence.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** TAG Communication

### COMM 26000 CRITICISM OF PUBLIC DISCOURSE (DIVD) (KHUM) 3 Credit Hours

A critical examination of selected public speeches representing diverse viewpoints on a variety of historic and contemporary issues, emphasizing methods of evaluating public oral communication and the role of speechmaking in free societies.

**Prerequisite:** Sophomore standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Diversity Domestic, Kent Core Humanities, Transfer Module Humanities

### COMM 26001 PUBLIC COMMUNICATION IN SOCIETY 3 Credit Hours

Examines communication in public settings. Content includes issues in mass media, political communication and political advertising, news, crisis communication, public opinion, and communication in executive, legislative and judicial settings. Students explore the influence of mediated messages via application of mass communication theories and constructs.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

### COMM 26501 INTRODUCTION TO HEALTH COMMUNICATION 3 Credit Hours

Introduction to the roles of communication in health, health and risk behavior, health care, and health promotion, including interpersonal, organizational and media contexts.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

### COMM 30000 COMMUNICATION RESEARCH METHODS 3 Credit Hours

Introduction to qualitative and quantitative research methods in communication. Students should complete this course early in their program of study.

**Prerequisite:** Minimum 2.000 overall GPA.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

### COMM 34000 COMMUNICATION ETHICS (WIC) 3 Credit Hours

This course focuses on the ethics of communication activities and practices. We will explore ethical frameworks, principles, and guidelines for help discerning what rights and responsibilities, if any, communicators have to themselves, to their families and communities, and to the broader global community.

**Prerequisite:** Minimum C grade in COMM 21000 or ENG 31001; and minimum 2.000 overall GPA.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Writing Intensive Course

**COMM 35464 ARGUMENTATION AND PERSUASIVE COMMUNICATION 3 Credit Hours**

Students will be introduced to principles and practices of effective argumentation and persuasive communication. Through exposure to rhetorical and social scientific theories, students will engage in research to develop argumentative cases and assess persuasive messaging strategies in mediated contexts. The course emphasizes processes of reasoning, the nature and use of evidence, recognition of common fallacies, media and information literacy, and generation and construction of valid and ethical arguments. Assignments will allow students to practice argumentation and persuasive communication as well as develop critical thinking skills needed to evaluate arguments and persuasive messages.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**COMM 35600 COMMUNICATION IN SMALL GROUPS AND TEAMS 3 Credit Hours**

Focuses on the application and practice of group communication skills and techniques applied to goal-oriented small group situations. Course explores communication theory and research about small groups and teams, relating in group and teams, managing conflict in groups and teams, leadership in groups and teams and problem-solving in groups and teams.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** TAG Communication

**COMM 35852 INTERCULTURAL COMMUNICATION (DIVG) 3 Credit Hours**

Theory and application of communication between people of different cultures and different national systems.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Diversity Global

**COMM 35860 INTERVIEWING 3 Credit Hours**

Techniques, principles and practical skills for interviews most likely to occur in business environments; job searches and selection interviews, information-gathering interviews, performance appraisals, counseling interviews and persuasive interviews.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**COMM 35864 ORGANIZATIONAL COMMUNICATION 3 Credit Hours**

Application of communication theory to organizational settings. Exploration of communication structures processes and methods in organizations.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**COMM 35912 GENDER AND COMMUNICATION (DIVD) 3 Credit Hours**

Explores how gender is socially constructed in everyday communicative interactions and institutional contexts, including close relationships, organizations, school settings and the media. In the process, this course uncovers how the social construction of gender perpetuates power imbalances in society.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Diversity Domestic

**COMM 36501 COMMUNICATION IN HEALTH CARE 3 Credit Hours**

Examination of the dynamics of communication in health care settings, including provider-patient interaction, using communication theory, research and health advocacy skills across a variety of health care contexts.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**COMM 36505 COMMUNICATION, AGING AND CULTURE 3 Credit Hours**

Examination of the roles of aging and culture on human communication.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**COMM 37091 SEMINAR IN COMMUNICATION AND POPULAR CULTURE 3 Credit Hours**

(Repeatable twice for credit) Popular culture is driven by communication. The messages contained in that communication can be both prescriptive and descriptive and can reveal much about people's culture, attitudes, fears, values and perceptions of reality. Course will focus on messages contained in various popular culture artifacts including, but not limited to film, television, internet, music and literature.

**Prerequisite:** None.

**Schedule Type:** Seminar

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**COMM 40001 ADVANCED INTERPERSONAL COMMUNICATION 3 Credit Hours**

Advanced treatment of interpersonal communication theory and research. Interpersonal principles are applied to group and organizational contexts.

**Prerequisite:** COMM 20001.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**COMM 41000 SPORTS COMMUNICATION 3 Credit Hours**

An examination of the inter-relationship between sports and communication in today's society. Students discuss and examine sports through communication lenses (groups, interpersonal, media/mediated and organizational).

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter



**COMM 42000 MEDIA, WAR AND PROPAGANDA 3 Credit Hours**

Examines the influence of TV, movies, and media images of war, the war effort and portrayals of enemies, protesters and anti-war groups on communication research, including mass communication and persuasion.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**COMM 43000 COMMUNICATION TECHNOLOGY AND HUMAN INTERACTION 3 Credit Hours**

Course aims to help students develop a critical understanding of diverse newer media and how they are used and affect human interaction. In achieving this goal, students are expected to learn how newer media are different from and similar to face-to-face communication or traditional mass media, newer media's social and psychological effects on human interactions, and theoretical frameworks explaining these media.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**COMM 45006 MEDIA USE AND EFFECTS 3 Credit Hours**

The course examines the ways in which communication scholars have conceptualized and analyzed media processes, uses and effects. We explore such issues as media portrayals, news coverage, political campaigns, sex and violence in the media, media entertainment, children and television, and newer communication technologies.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter-IP

**COMM 45007 FREEDOM OF SPEECH 3 Credit Hours**

(Slashed with COMM 55007) Examines historic and contemporary instances relating to freedom of speech; study of limits, rights, responsibilities and socio-legal-rhetorical issues.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**COMM 45091 SEMINAR IN COMMUNICATION STUDIES 1-4 Credit Hours**

(Repeatable for a maximum of 9 credit hours) Examination of selected communication topics/areas and related research.

**Prerequisite:** None.

**Schedule Type:** Seminar

**Contact Hours:** 1-4 other

**Grade Mode:** Standard Letter

**COMM 45092 INTERNSHIP IN COMMUNICATION STUDIES (ELR) 3-6 Credit Hours**

(Repeatable for credit) A formal, cooperative field experience with a designated organization or agency as designed by the students and the internship coordinator.

**Prerequisite:** Minimum C grade in COMM 21000 or ENG 31001; and COMM 45902; and EMAT 10310; and minimum 2.000 overall GPA; and senior standing; and special approval.

**Schedule Type:** Practical Experience

**Contact Hours:** 9-18 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**Attributes:** Experiential Learning Requirement

**COMM 45093 VARIABLE TITLE WORKSHOP IN COMMUNICATION 1-5 Credit Hours**

(Repeatable for credit) Content varies per workshop course. No more than three credits may be counted as part of the upper-division credits required in the Communication Studies major.

**Prerequisite:** None.

**Schedule Type:** Workshop

**Contact Hours:** 1-5 other

**Grade Mode:** Satisfactory/Unsatisfactory

**COMM 45095 SPECIAL TOPICS IN COMMUNICATION STUDIES 1-6 Credit Hours**

(Repeatable for credit) (Slashed with COMM 55095 and COMM 75095) Offered when unusual resources permit a topic different from existing courses. Topic will be announced when scheduled.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 1-6 lecture

**Grade Mode:** Satisfactory/Unsatisfactory

**COMM 45196 INDEPENDENT STUDY: COMMUNICATION STUDIES 1-6 Credit Hours**

(Repeatable for a maximum of 6 credit hours) Readings and/or research on problems approved by undergraduate coordinator in consultation with student's adviser and faculty project director.

**Prerequisite:** Minimum C grade in COMM 20000; minimum 2.000 overall GPA; and junior standing; and special approval.

**Schedule Type:** Individual Investigation

**Contact Hours:** 6 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**COMM 45459 COMMUNICATION AND CONFLICT 3 Credit Hours**

(Slashed with COMM 55459) Examination of issues related to managing conflict in communication. Critique and synthesis of conceptual approaches and research pertaining to conflict in relational and workplace communication settings.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**COMM 45660 POLITICAL COMMUNICATION 3 Credit Hours**

This course will provide an overview of the vast array of research concerning the role of communication in the political process. Considerations of political communication will include the history of political communication, the role of media in politics, the analysis of political messages, contemporary campaigns in the role of communication in their successes and failures.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**COMM 45678 SOCIAL MEDIA AND GLOBALIZATION 3 Credit Hours**

The course introduces students to social media and how they operate in a globalized context. Through the relevant literature, students will be able to use key theoretical tools to understand and critically analyze implications of globalization and social media on issues related to communication, social inequalities, citizenship, and youth cultures. The students will navigate the relationship between globalization and social media processes through practical examples including media texts, audiovisual material, social media content, etc. In class, the students will be expected to fully engage in discussions and group activities designed to emphasize their individual, professional, and academic growth.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**COMM 45684 COMMUNICATION TRENDS, RISKS AND WARNINGS 3 Credit Hours**

Recognizing and exploring the role of communicators in building new and deeper public understanding of critical, pervasive, and enduring human problems across conventional borders.

**Prerequisite:** None.

**Schedule Type:** Seminar

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**COMM 45756 INTERNATIONAL COMMUNICATION 3 Credit Hours**

International Communication (IC) maps out global communication systems from contemporary and historical perspectives, particularly as they relate to issues of social justice. The course deals with four overarching themes: [a] ideologies, theories and foundation; [b] commodities, markets and industries; [c] audiences, identities, and culture; and [d] ICTs, networks, and activism. Specifically, IC examines international information flows, comparative media systems, media ownership structures, commons, international reporting, global advertising, modes of propaganda, televangelism, mediated sports, digital surveillance, and electronic waste, among others. IC offers the opportunity to critically examine our posture, individually and collectively, in the production, distribution and consumption of content, and how this translates into the construction of images and identities of ourselves and global publics.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**COMM 45760 MEDIA, NATIONALISM AND GLOBALIZATION 3 Credit Hours**

Media, Nationalism and Globalization examines connections and tensions between the forces of nationalism and the forces of globalization and explores the role of the media and consumer culture in the current context of capitalism.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**COMM 45766 COMMUNICATION IN A GLOBAL SOCIETY 3 Credit Hours**

Offers a broad-based treatment of a variety of topics in our 'globalizing' world from the standpoint of communication. Considers the importance of communication on multiple levels of the international landscape, ranging from the very ways globalization is defined and framed to new communication media and networks, to campaigns and debates about global issues, and including the transformation of organizational and institutional relationships as well as local-to-global interactions.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**COMM 45776 COMMUNICATION AND TERRORISM 3 Credit Hours**

This course examines many facets of terrorism, including its historic roots and its social, political, ethnic, geographic, moral and spiritual causes. Students will be challenged to understand basic definitions of terrorism and think beyond conventional assumptions about terrorist organizations, especially assumptions derived from mass media, popular culture and Western biases. We will examine two central premises: first, that communication – spoken/written, traditional/nontraditional, public/private, visual/symbolic – is both a tool and the goal of organized terrorism; and second, that terrorist organizations use brand-positioning strategies we often associate with commercial entities. Students will be required to think deeply, critically and objectively about the narratives, messages, images and symbolism used by past and present-day terrorist movements.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**COMM 45807 HIGH IMPACT PROFESSIONAL SPEAKING 3 Credit Hours**

Principles and practices of effective communication in a variety of professional contexts. Emphasis on professional presentation skills development.

**Prerequisite:** COMM 15000; and junior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**COMM 45865 ORGANIZATIONAL COMMUNICATION TRAINING AND DEVELOPMENT 3 Credit Hours**

Theory and application of diagnosing communication problems in an organization and the intervention process.

**Prerequisite:** COMM 35864.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**COMM 45902 COMMUNICATION AND INFLUENCE (WIC) 3 Credit Hours**

Explores theories and strategies of social influence in contemporary society. Students discuss and critique influential communication practices such as interpersonal persuasion, product and services advertisements, social movements and political messages.

**Prerequisite:** Minimum C grade in COMM 21000 or ENG 31001; and minimum 2.000 overall GPA.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Writing Intensive Course

**COMM 45903 COMMUNICATION CAMPAIGNS (ELR) 3 Credit Hours**

The primary purpose of this course is to enable students to understand the fundamentals of how persuasive communication campaigns are developed, implemented, and evaluated.

**Prerequisite:** COMM 45902.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Experiential Learning Requirement

**COMM 45957 LANGUAGE, MEANING AND COGNITION 3 Credit Hours**

Overview of language use in social contexts, including basic components of language production; semantics; pragmatics (speech acts); the production and comprehension of sentences; message production; message comprehension; language and society (conversational rules; coherence); individual differences in language use (adaptive ability, gender differences); powerful vs. powerless speech; and intercultural considerations.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**COMM 45959 NONVERBAL COMMUNICATION 3 Credit Hours**

Survey of theory and research in nonverbal codes of communication through readings, field study and classroom interaction.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**COMM 46091 SENIOR SEMINAR (ELR) 3 Credit Hours**

(Repeatable for credit) Senior Seminar is an advanced level course that features current topics in communication and is driven by problem-analysis and a search for solutions. In-depth exploration and analysis of a communication issue is an opportunity for students to synthesize coursework and communication experiences into transferable skills and applications. A summative experience, this course may result in a research project or paper, portfolio, multimedia presentation, community-based initiative, and or a public presentation. Topics vary based on faculty expertise and research interests. The Senior Seminar course is applied and experiential.

**Prerequisite:** Minimum C grade in COMM 20000; and minimum 2.000 overall GPA; and senior standing.

**Schedule Type:** Seminar

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**Attributes:** Experiential Learning Requirement

**COMM 46503 HEALTH COMMUNICATION AND MEDIA 3 Credit Hours**

Investigation of health messages in traditional and new media, including both incidental communication and planned campaigns.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**COMM 46507 EVERYDAY INTERPERSONAL COMMUNICATION AND HEALTH 3 Credit Hours**

Examination of the roles of everyday interpersonal communication in physical and psychosocial health and risk behavior.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**COMM 46601 RELATIONAL COMMUNICATION 3 Credit Hours**

Provides an exploration of theory and research about the interactions among individuals in relationships. Subtopics of the course include communication and the development, maintenance and dissolution of personal relationships; relationships across the life span; individual differences in relationships and relational processes, qualities, and outcomes.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**COMM 46605 COMMUNICATION ACROSS THE LIFESPAN (DIVD) 3 Credit Hours**

Explores common life stages (childhood, youth, midlife, and old age) and the transitioning of communication within and between these different stages of development. Sub-topics include life span communication and: family, friendships, social and gender role development, interpersonal conflict management, and the use of varied communication technologies facilitating human interaction across the life span.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Diversity Domestic

**COMM 46608 FAMILY COMMUNICATION 3 Credit Hours**

Examines the interactions among individuals in families. Sub-topics of the course include family communication and storytelling, identity, rules, conflict, intimacy, stress, external influences on family communication, and family communication and the media.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**COMM 55007 FREEDOM OF SPEECH 3 Credit Hours**

(Slashed with COMM 45007) Examines historic and contemporary instances relating to freedom of speech; study of limits, rights, responsibilities and socio-legal-rhetorical issues.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**COMM 55093 VARIABLE TITLE WORKSHOP IN COMMUNICATION STUDIES 1-6 Credit Hours**

(Repeatable for credit) Variable topic workshop in communication studies.

**Prerequisite:** Graduate standing.

**Schedule Type:** Workshop

**Contact Hours:** 1-6 other

**Grade Mode:** Satisfactory/Unsatisfactory

**COMM 55095 SPECIAL TOPICS 1-4 Credit Hours**

(Repeatable for credit) (Slashed with COMM 45095 and COMM 75095)  
Offered when resources permit a topic different from existing courses.  
Topic will be announced when scheduled.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 1-4 lecture

**Grade Mode:** Standard Letter

**COMM 55459 COMMUNICATION AND CONFLICT 3 Credit Hours**

(Slashed with COMM 45459) Examination of issues related to managing conflict in communication. Critique and synthesis of conceptual approaches and research pertaining to conflict in interpersonal, organizational and public communication settings.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**COMM 55766 COMMUNICATION IN A GLOBAL SOCIETY 3 Credit Hours**

(Slashed with COMM 45766) Offers a broad-based treatment of a variety of topics in our 'globalizing' world from the standpoint of communication. Considers the importance of communication on multiple levels of the international landscape, ranging from the very ways globalization is defined and framed to new communication media and networks, to campaigns and debates about global issues, and including the transformation of organizational and institutional relationships as well as local-to-global interactions.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**COMM 60199 THESIS I 2-6 Credit Hours**

Thesis student must register for a total of 6 hours, 2 to 6 hours in a single semester or distributed over several semesters if desired.

**Prerequisite:** Graduate standing.

**Schedule Type:** Masters Thesis

**Contact Hours:** 2-6 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**COMM 60299 THESIS II 2 Credit Hours**

Thesis students must continue registration each semester until all degree requirements are met.

**Prerequisite:** COMM 60199; and graduate standing.

**Schedule Type:** Masters Thesis

**Contact Hours:** 2 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**COMM 61198 MASTERS PROJECT IN COMMUNICATION STUDIES 3 Credit Hours**

One of the non-thesis options for graduation. Students propose a theory-driven applied research project on a communicative phenomenon or issue. The final written paper is evaluated by the students' academic advisor and the Graduate Coordinator to deem satisfactory for graduation.

**Prerequisite:** COMM 65000 and COMM 65020 and COMM 65652.

**Schedule Type:** Research

**Contact Hours:** 3 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**COMM 64092 MASTERS INTERNSHIP IN COMMUNICATION STUDIES 3 Credit Hours**

(Repeatable for credit) One of the non-thesis options for graduation. Students choose and secure an internship position with a designated organization or agency that requires the student to utilize communication skills and knowledge. Students complete 135 hours of internship. The employer, the academic advisor, and the Graduate Coordinator evaluate the student's overall performance. The advisor and the Graduate Coordinator determine whether the student complete the requirements.

**Prerequisite:** COMM 65000 and COMM 65020 and COMM 65652; and graduate standing; and special approval.

**Schedule Type:** Practical Experience

**Contact Hours:** 3 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**COMM 65000 FOUNDATIONS OF COMMUNICATION INQUIRY 3 Credit Hours**

(Slashed with COMM 75000) Philosophy of science, epistemological and theory construction principles which are the foundation of inquiry into the process of communication.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**COMM 65020 QUANTITATIVE RESEARCH METHODS IN COMMUNICATION 3 Credit Hours**

(Slashed with COMM 75020) An examination of basic quantitative social scientific research methods and procedures for the study of communication.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**COMM 65040 QUALITATIVE RESEARCH METHODS IN COMMUNICATION 3 Credit Hours**

Exploration of qualitative methods in human communication research. Focus on the nature of qualitative data participant observation, and archival strategies of data collection and interpretive and interactionist approaches to data analysis.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**COMM 65060 COMMUNICATION MEASUREMENT AND ANALYSIS 3 Credit Hours**

(Slashed with COMM 75060) A survey of self-report, observational and psychological instruments used in communication research. Uses of the computer in analyzing data obtained in communication research.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**COMM 65091 SEMINAR IN PERSUASION 3,4 Credit Hours**

(Repeatable for credit) (Slashed with COMM 75091) Examination of selected areas of persuasion research. Emphasis on synthesizing research results and formulating explanatory models of persuasive behavior.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Seminar

**Contact Hours:** 3-4 other

**Grade Mode:** Standard Letter

**COMM 65093 VARIABLE TITLE WORKSHOP IN COMMUNICATION****1-6 Credit Hours**

(Repeatable for credit) Variable topic workshop in communication studies.

**Prerequisite:** Graduate standing.**Schedule Type:** Workshop**Contact Hours:** 1-6 other**Grade Mode:** Satisfactory/Unsatisfactory**COMM 65096 INDIVIDUAL INVESTIGATION 1-6 Credit Hours**

(Repeatable for a maximum of 6 credit hours) (Slashed with COMM 75096) Independent study of area or problem to be selected in consultation with graduate staff.

**Prerequisite:** Graduate standing.**Schedule Type:** Individual Investigation**Contact Hours:** 1-6 other**Grade Mode:** Satisfactory/Unsatisfactory-IP**COMM 65098 RESEARCH 1-15 Credit Hours**

(Repeatable for credit) Research or individual investigation for master's level graduate students. Credits may be applied toward meeting degree requirements if school approves.

**Prerequisite:** Graduate standing.**Schedule Type:** Research**Contact Hours:** 1-15 other**Grade Mode:** Satisfactory/Unsatisfactory-IP**COMM 65591 SEMINAR IN SMALL GROUP COMMUNICATION 3,4 Credit Hours**

(Repeatable for credit) (Slashed with COMM 75591) Research theories and findings in small group communication.

**Prerequisite:** Graduate standing.**Schedule Type:** Seminar**Contact Hours:** 3-4 other**Grade Mode:** Standard Letter**COMM 65652 THEORIES OF COMMUNICATION 3 Credit Hours**

(Slashed with COMM 75652) Introduction to approaches in the study of human communication. Focuses on differing views of interaction from theory building and research-generation perspective.

**Prerequisite:** Graduate standing.**Schedule Type:** Lecture**Contact Hours:** 3 lecture**Grade Mode:** Standard Letter**COMM 65660 POLITICAL COMMUNICATION 3 Credit Hours**

(Slashed with COMM 75660) (Crosslisted with JMC 65660) An examination of political communication theory and research. Content includes approaches to political communication, role of the media in politics and analysis of political messages.

**Prerequisite:** Graduate standing.**Schedule Type:** Lecture**Contact Hours:** 3 lecture**Grade Mode:** Standard Letter**COMM 65661 COMMUNICATION IN AN INFORMATION SOCIETY 3 Credit Hours**

(Slashed with COMM 75661) Examines how the development and use of newer communication technologies have influenced human communication. Considers the evolution, social and psychological impact, and culture of newer communication technologies such as the Internet, and how research adapts to these newer media.

**Prerequisite:** Graduate standing.**Schedule Type:** Lecture**Contact Hours:** 3 lecture**Grade Mode:** Standard Letter**COMM 65662 MASS MEDIA EFFECTS 3 Credit Hours**

(Slashed with COMM 75662) Examines perspectives on media effects, the impact media have on individuals and societies, and how individual, societal and communication elements influence media uses and effects. Explores issues such as media portrayals, campaigns, violence and children and the media.

**Prerequisite:** Graduate standing.**Schedule Type:** Lecture**Contact Hours:** 3 lecture**Grade Mode:** Standard Letter**COMM 65665 PERSONAL AND MEDIATED COMMUNICATION 3 Credit Hours**

(Slashed with COMM 75665) Examination of the interface of interpersonal and mediated communication in everyday life. Includes topics such as parasocial interaction, talk radio, TV co-viewing, cell phones, teleconferencing, computer-mediated relationships and media portrayals.

**Prerequisite:** Graduate standing.**Schedule Type:** Lecture**Contact Hours:** 3 lecture**Grade Mode:** Standard Letter**COMM 65670 INTERPERSONAL COMMUNICATION 3 Credit Hours**

(Slashed with COMM 75670) Survey of recent theoretical developments and research in interpersonal communication. Topics include relationship development, interaction, interpersonal traits, compliance, conversational analysis and research methods.

**Prerequisite:** Graduate standing.**Schedule Type:** Lecture**Contact Hours:** 3 lecture**Grade Mode:** Standard Letter**COMM 65673 FAMILY COMMUNICATION 3 Credit Hours**

(Slashed with COMM 85673) Family Communication examines the study of theory and research about the interactions among individuals in families. The course also examines how families interact with external entities. Finally, the course explores health communication, media uses or new communication technologies and work-life balance issues from a family communication perspective.

**Prerequisite:** Graduate standing.**Schedule Type:** Lecture**Contact Hours:** 3 lecture**Grade Mode:** Standard Letter**COMM 65675 COMMUNICATION, UNCERTAINTY AND PRIVACY MANAGEMENT 3 Credit Hours**

(Slashed with COMM 85675) Communication, uncertainty, and the management of private information examines theory and research about disclosure and uncertainty issues in communication in a variety of contexts. Course content examines disclosure and uncertainty management applications in relational contexts, health contexts, organizational contexts, and contexts involving human interaction occurring through technology.

**Prerequisite:** Graduate standing.**Schedule Type:** Lecture**Contact Hours:** 3 lecture**Grade Mode:** Standard Letter



**COMM 65677 RELATIONAL COMMUNICATION 3 Credit Hours**  
(Slashed with COMM 85677) Relational communication provides an exploration of theory and research about the interactions among individuals in personal relationships. Subtopics of the course include communication and the development, maintenance, and dissolution of personal relationships, relationships across the life span, individual differences in relationships and relational processes, qualities and outcomes.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**COMM 65679 COMMUNICATION ACROSS THE LIFESPAN 3 Credit Hours**

(Slashed with COMM 85679) Overview of research examining communication across the lifespan, including issues related to communication and cognition, communicative uses of language, communication in close relationships and differences in media uses and effects.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**COMM 65680 INTERCULTURAL/INTERNATIONAL COMMUNICATION 3 Credit Hours**

Examination of theoretical perspectives, research issues and the rhetorical analyses of intercultural and international communication.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**COMM 65683 INTERGROUP COMMUNICATION 3 Credit Hours**

(Slashed with COMM 85683) Overview of theory and research of communication between groups of individuals, including issues of discrimination, language, identity, social status, religion and demographics.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**COMM 65684 COMMUNICATION AND TRANSNATIONAL TREND ANALYSIS 3 Credit Hours**

Recognizes and explores the role of communicators in building new and deeper public understanding of critical, pervasive and enduring human problems across conventional borders.

**Prerequisite:** Graduate standing.

**Schedule Type:** Seminar

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**COMM 65685 COMMUNICATION AND COGNITION 3 Credit Hours**

(Slashed with COMM 85685) Application of cognitive theory and research findings to understanding and explaining message production, interpersonal communication, individual differences in adaptive ability, persuasion, political communication, media processing and media effects.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**COMM 65766 COMMUNICATION IN A GLOBAL SOCIETY 3 Credit Hours**

Overview of, analysis of, and critical reflection on topics and issues related to globalization, largely from a communication perspective yet drawing from other disciplines, and including topics such as framing and narratives of globalization and fragmentation, images of national and 'civilizational' identity, discourses of marketization and consumerism, organizational communication dynamics of 'the anti-globalization movement' and 'globalization from below,' definitions and frameworks of security, symbols of war and peace, debates over corporate social responsibility, frames of environmental sustainability, the roles of new media in alternative organizational and institutional formation, and understanding global problems in terms of communication networks. Contributes to the core curriculum for the global communication concentration in the MA program in COMM. Open to PhD students in CCI, plus other masters students within CCI.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**COMM 65794 TEACHING OF COLLEGE COMMUNICATION 3 Credit Hours**

(Repeatable for credit) (Slashed with COMM 75794) Training and experience in college teaching. Maximum of three hours applicable toward master's degree requirements.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**COMM 65851 ORGANIZATIONAL COMMUNICATION 3 Credit Hours**

(Slashed with COMM 75851) Structure, methodology and application of communication theory in industrial and organizational settings.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**COMM 65891 SEMINAR IN ORGANIZATIONAL COMMUNICATION 3,4 Credit Hours**

(Repeatable for credit) Theories and problems of human communication within, between and/or among formal organizations.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Seminar

**Contact Hours:** 3-4 other

**Grade Mode:** Standard Letter

**COMM 66501 HEALTH COMMUNICATION 3 Credit Hours**

(Slashed with COMM 86501) Investigation of the role of communication theory, research and practice in health beliefs and behavior, health care and health promotion.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**COMM 66503 HEALTH COMMUNICATION AND MEDIA EFFECTS 3 Credit Hours**

(Slashed with COMM 86503) Overview of theory and research on the processing and effects of health messages in the media.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**COMM 66506 HEALTH COMMUNICATION AND NEW MEDIA 3 Credit Hours**

(Slashed with COMM 86506) Investigation of the implementation and effects of new media technologies and their implications for health communication.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**COMM 66507 INTERPERSONAL COMMUNICATION AND HEALTH 3 Credit Hours**

(Slashed with COMM 86507) Investigation of the interpersonal communication processes that influence and/or are influenced by health and health contexts.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**COMM 66508 HEALTH COMMUNICATION LITERACY 3 Credit Hours**

(Slashed with COMM 86508) Investigation of the concept and consequences of communication as it relates to health literacy, including social, cultural, educational and political forces that affect health literacy levels and strategies for creating accessible health communication.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**COMM 66509 PUBLIC COMMUNICATION CAMPAIGNS 3 Credit Hours**

(Slashed with COMM 86509) Overview of the major issues surrounding the development, dissemination and effects of public communication campaigns.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**COMM 75000 FOUNDATIONS OF COMMUNICATION INQUIRY 3 Credit Hours**

(Slashed with COMM 65000) Philosophy of science, epistemological and theory construction principles which are the foundation of inquiry into the process of communication.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**COMM 75020 QUANTITATIVE RESEARCH METHODS IN COMMUNICATION 3 Credit Hours**

(Slashed with COMM 65020) An examination of basic quantitative social scientific research methods and procedures for the study of communication.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**COMM 75040 QUALITATIVE RESEARCH METHODS IN COMMUNICATION 3 Credit Hours**

(Slashed with COMM 65040) Exploration of qualitative methods in human communication research. Focus on the nature of qualitative data, participant observation and archival strategies of data collection and interpretive and interactionist approaches to data analysis.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**COMM 75060 COMMUNICATION MEASUREMENT AND ANALYSIS 3 Credit Hours**

(Slashed with COMM 65060) A survey of self-report, observational and psychological instruments used in communication research. Uses of the computer in analyzing data obtained in communication research.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**COMM 75091 SEMINAR IN PERSUASION 3,4 Credit Hours**

(Repeatable for credit) (Slashed with COMM 65091) Examination of selected areas of persuasion research. Emphasis on synthesizing research results and formulating explanatory models of persuasive behavior.

**Prerequisite:** Doctoral standing; and special approval.

**Schedule Type:** Seminar

**Contact Hours:** 3-4 other

**Grade Mode:** Standard Letter

**COMM 75093 VARIABLE TITLE WORKSHOP IN COMMUNICATION STUDIES 1-6 Credit Hours**

(Repeatable for credit) Variable title workshop in communications.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Workshop

**Contact Hours:** 1-6 other

**Grade Mode:** Satisfactory/Unsatisfactory

**COMM 75095 SPECIAL TOPICS 1-4 Credit Hours**

(Repeatable for credit) (Slashed with COMM 45095 and COMM 55095)

Offered when resources permit a topic different from existing courses.

Topic will be announced when scheduled.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 1-4 lecture

**Grade Mode:** Standard Letter

**COMM 75096 INDIVIDUAL INVESTIGATION 1-6 Credit Hours**

(Repeatable for credit) (Slashed with COMM 65096) Independent study of area or problem to be selected in consultation with graduate staff.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Individual Investigation

**Contact Hours:** 1-6 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**COMM 75591 SEMINAR IN SMALL GROUP COMMUNICATION 3,4 Credit Hours**

(Repeatable for credit) (Slashed with COMM 65591) Research theories and findings in small group communication.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Seminar

**Contact Hours:** 3-4 other

**Grade Mode:** Standard Letter

**COMM 75652 THEORIES OF COMMUNICATION 3 Credit Hours**  
(Slashed with COMM 65652) Introduction to approaches in the study of human communication. Focuses on differing views of interaction from theory building and research generation perspective.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**COMM 75660 POLITICAL COMMUNICATION 3 Credit Hours**  
(Slashed with COMM 65660 and COMM 75660) An examination of political communication theory and research. Content includes approaches to political communication, role of the media in politics and analysis of political messages.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**COMM 75661 COMMUNICATION IN AN INFORMATION SOCIETY 3 Credit Hours**

(Slashed with COMM 65661) Examines how the development and use of newer communication technologies have influenced how people communicate. Considers the evolution, social and psychological impact and culture of newer communication technologies (especially the Internet) and how research adapts to such technologies.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**COMM 75662 MASS MEDIA EFFECTS 3 Credit Hours**

(Slashed with COMM 65662) Examines perspectives on media effects, the impact media have on individuals and societies and how individual, societal and communication elements influence media uses and effects. Explores issues such as media portrayals, campaigns, violence and children and the media.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**COMM 75665 PERSONAL AND MEDIATED COMMUNICATION 3 Credit Hours**

(Slashed with COMM 65665) Examination of the interface of interpersonal and mediated communication in everyday life. Includes topics such as parasocial interaction, talk radio, TV co-viewing, cell phones, teleconferencing, computer-mediated relationships and media portrayals.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**COMM 75670 INTERPERSONAL COMMUNICATION 3 Credit Hours**

(Slashed with COMM 65670) Survey of recent theoretical developments and research in interpersonal communication. Topics include relationship development, interaction, interpersonal traits, compliance, conversational analysis and research methods.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**COMM 75680 INTERCULTURAL/INTERNATIONAL COMMUNICATION 3 Credit Hours**

Examination of theoretical perspectives, research issues and the rhetorical analyses of intercultural and international communication.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**COMM 75794 TEACHING OF COLLEGE COMMUNICATION 3 Credit Hours**

(Repeatable for credit) (Slashed with COMM 65794) Training and experience in college teaching. Maximum of three hours applicable toward doctoral degree requirements.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**COMM 75851 ORGANIZATIONAL COMMUNICATION 3 Credit Hours**

(Slashed with COMM 65851) Structure, methodology and application of communication theory in industrial and organizational settings.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**COMM 75891 SEMINAR IN ORGANIZATIONAL COMMUNICATION 3,4 Credit Hours**

(Repeatable for credit) Theories and problems of human communication within, between and/or among formal organizations.

**Prerequisite:** Doctoral standing; and special approval.

**Schedule Type:** Seminar

**Contact Hours:** 3-4 other

**Grade Mode:** Standard Letter

**COMM 80199 DISSERTATION I 15 Credit Hours**

(Repeatable for credit) Doctoral dissertation for which registration in at least two semesters is required, first of which will be semester in which dissertation work is begun and continuing until the completion of 30 hours.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Dissertation

**Contact Hours:** 15 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**COMM 80299 DISSERTATION II 15 Credit Hours**

(Repeatable for credit) Continuing registration required of doctoral students who have completed the initial 30 hours of dissertation and continuing until all degree requirements are met.

**Prerequisite:** COMM 80199; and doctoral standing.

**Schedule Type:** Dissertation

**Contact Hours:** 15 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**COMM 85098 RESEARCH 1-15 Credit Hours**

(Repeatable for credit) Research or individual investigation for doctoral students who have not yet passed their candidacy examination. Credits may be applied toward degree if school approves.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Research

**Contact Hours:** 1-15 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**COMM 85673 FAMILY COMMUNICATION 3 Credit Hours**

(Slashed with COMM 65673) Family Communication examines the study of theory and research about the interactions among individuals in families. The course also examines how families interact with external entities. Finally, the course explores health communication, media uses or new communication technologies and work-life balance issues from a family communication perspective.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**COMM 85675 COMMUNICATION, UNCERTAINTY AND PRIVACY MANAGEMENT 3 Credit Hours**

(Slashed with COMM 65675) Communication, uncertainty and the management of private information examines theory and research about disclosure and uncertainty issues in communication in a variety of contexts. Course content examines disclosure and uncertainty management applications in relational contexts, health contexts, organizational contexts, and contexts involving human interaction occurring through technology.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**COMM 85677 RELATIONAL COMMUNICATION 3 Credit Hours**

(Slashed with COMM 65677) Relational communication provides an exploration of communication theory and research about the interactions among individuals in personal relationships. Subtopics of the course include communication and the development, maintenance, and dissolution of personal relationships, relationships across the life span, individual differences in relationships and relational processes, qualities and outcomes.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**COMM 85679 COMMUNICATION ACROSS THE LIFESPAN 3 Credit Hours**

(Slashed with COMM 65679) Overview of research examining communication across the lifespan, including issues related to communication and cognition, communicative uses of language, communication in close relationships and differences in media uses and effects.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**COMM 85683 INTERGROUP COMMUNICATION 3 Credit Hours**

(Slashed with COMM 65683) Overview of theory and research of communication between groups of individuals, including issues of discrimination, language, identity, social status, religion and demographics.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**COMM 85685 COMMUNICATION AND COGNITION 3 Credit Hours**

(Slashed with COMM 65685) Application of cognitive theory and research findings to understanding and explaining message production, interpersonal communication, individual differences in adaptive ability, persuasion, political communication, media processing and media effects.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**COMM 85766 COMMUNICATION IN A GLOBAL SOCIETY 3 Credit Hours**

Overview of, analysis of, and critical reflection on topics and issues related to globalization, largely from a communication perspective yet drawing from other disciplines, and including topics such as framing and narratives of globalization and fragmentation, images of national and 'civilizational' identity, discourses of marketization and consumerism, organizational communication dynamics of 'the anti-globalization movement' and 'globalization from below,' definitions and frameworks of security, symbols of war and peace, debates over corporate social responsibility, frames of environmental sustainability, the roles of new media in alternative organizational and institutional formation, and understanding global problems in terms of communication networks. Open to graduate students in and outside the College of Communication and Information who are interested in international dimensions of communication.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**COMM 86501 HEALTH COMMUNICATION 3 Credit Hours**

(Slashed with COMM 66501) Investigation of the role of communication theory, research and practice in health beliefs and behavior, health care and health promotion.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Seminar

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**COMM 86503 HEALTH COMMUNICATION AND MEDIA EFFECTS 3 Credit Hours**

(Slashed with COMM 66503) Overview of theory and research on the processing and effects of health messages in the media.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**COMM 86506 HEALTH COMMUNICATION AND NEW MEDIA 3 Credit Hours**

(Slashed with COMM 66506) Investigation of the implementation and effects of new media technologies and their implications for health communication.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter



**COMM 86507 INTERPERSONAL COMMUNICATION AND HEALTH 3 Credit Hours**

(Slashed with COMM 66507) Investigation of the interpersonal communication processes that influence and/or are influenced by health and health contexts.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**COMM 86508 HEALTH COMMUNICATION LITERACY 3 Credit Hours**

(Slashed with COMM 66508) Investigation of the concept and consequences of communication as it relates to health literacy, including social, cultural, educational, and political forces that affect health literacy levels, and strategies for creating accessible health communication.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**COMM 86509 PUBLIC COMMUNICATION CAMPAIGNS 3 Credit Hours**

(Slashed with COMM 66509) Overview of the major issues surrounding the development, dissemination, and effects of public communication campaigns.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

## Communication Studies - B.A.

### College of Communication and Information

School of Communication Studies

201 Taylor Hall

Kent Campus

330-672-2659

comm@kent.edu

www.kent.edu/comm

## Description

The Bachelor of Arts degree in Communication Studies prepares students with the knowledge, skills, and abilities to succeed in a technological, multicultural and global environment. Our mission is to teach students to think analytically, reason critically, communicate effectively, and lead responsibly. We strive to develop communicators who are adaptive and ethical citizens who will thrive in the workplace, in the community, and in careers in government, business, non-profit, and education. We strive to understand how communication affects identities, communities, and cultures. We offer hands-on skill development opportunities to prepare students for meaningful and fulfilling careers.

The Communication Studies major comprises the following concentrations:

- The **Applied Communication** concentration offers an interdisciplinary program of study in which students gain expertise in organizational communication, advanced presentational speaking, professional writing and visual design. Students are trained to integrate theoretical knowledge and technical skills in order to perform professional tasks such as conducting training sessions and seminars, creating web

content, designing promotional materials, managing communication campaigns and writing press releases.

- The **Communication Studies–General** concentration features flexibility and choice. Students create a personalized plan of study tailored to their specific academic interests and career goals. This concentration is appropriate for those who have diverse academic interests.
- The **Global Communication** concentration prepares students to play a powerful role in redefining the way the world communicates. Globalization is the result of communication. Strategic, culturally sensitive, and critical communicators are the cornerstones of global economics, business, political establishments, institutions, and cultural interactions. Now that a majority of institutions, organizations, and industries operate globally, the demand for communication professionals with a global perspective who have the theoretical, analytical and practical skills to understand communication across cultures and in diverse environments has increased dramatically. By emphasizing an ethical, mindful, and sustainable global outlook, the concentration in global communication exposes students to information management, comparative media systems, intercultural competency, international business adeptness, democratic communication values, and transnational justice. In addition to gaining knowledge and skill sets through courses, students are encouraged to participate in study abroad experiences to strengthen their learning. Global Communication graduates are prepared to play a powerful role in redefining the way the world communicates.
- Communication in **Media and Society** is an essential part of everyday life and interaction. Individuals, groups, and organizations use multiple media platforms and communication strategies to inform and influence the public's judgments, perceptions, values, and actions. Students in the Media and Society concentration will learn to create and carry out strategic messaging, enhance their media literacy skills, and participate meaningfully in civic society and a range of careers. The Media and Society concentration provides students with an understanding of media use, processes, and effects that is critical for success in a competitive marketplace. Students in this concentration are prepared to enter a large number of careers, including advocacy, marketing, and other strategic communication professions, legal and political fields, as well as new and emerging fields in social media management and promotion.
- The **Relational and Workplace Communication** concentration teaches students how to understand, evaluate, and create messages to organize and relate in professional, social, and personal contexts. Additionally, students acquire skills to promote diversity, leadership, ethics, perspective-taking, social-support, teamwork, and conflict management, leading to greater effectiveness in the workplace and in personal relationships. Taken together, students develop comprehensive communication skills deemed essential by top employers in today's competitive marketplace.

Programs in the College of Communication and Information are, by nature, innovative, interdisciplinary and collaborative, which is critical to both professional and scholarly disciplines. Students are educated to work at the intersections of communication, information and technology. Through a core of diverse theory- and practice-based courses, students learn basic concepts that apply across the range of college programs and develop a sense of professional expectations and build toward interdisciplinary thinking and application.



There are many study abroad/away opportunities. For more information contact the Office of Global Education or coordinator of the college's International Study Programs.

### Fully Offered At:

- Ashtabula Campus (Applied Communication concentration only)
- East Liverpool Campus (Applied Communication concentration only)
- Kent Campus
- Salem Campus (Applied Communication concentration only)
- Stark Campus (Applied Communication, Communication Studies-General, Relational and Workplace Communication concentrations only)
- Trumbull Campus (Applied Communication concentration only)
- Tuscarawas Campus (Applied Communication concentration only)

## Admission Requirements

The university affirmatively strives to provide educational opportunities and access to students with varied backgrounds, those with special talents and adult students who graduated from high school three or more years ago.

**Freshman Students on the Kent Campus:** The freshman admission policy on the Kent Campus is selective. Admission decisions are based upon the following: cumulative grade point average, ACT and/or SAT scores, strength of high school college preparatory curriculum and grade trends. The Admissions Office at the Kent Campus may defer the admission of students who do not meet admissions criteria but who demonstrate areas of promise for successful college study. Deferred applicants may begin their college coursework at one of seven regional campuses of Kent State University. For more information on admissions, including additional requirements for some academic programs, visit the admissions website for new freshmen.

**Freshman Students on the Regional Campuses:** Kent State campuses at Ashtabula, East Liverpool, Geauga, Salem, Stark, Trumbull and Tuscarawas, as well as the Regional Academic Center in Twinsburg, have open enrollment admission for students who hold a high school diploma, GED or equivalent.

**English Language Proficiency Requirements for International Students:** All international students must provide proof of English language proficiency (unless they meet specific exceptions) by earning a minimum 525 TOEFL score (71 on the Internet-based version), minimum 75 MELAB score, minimum 6.0 IELTS score or minimum 48 PTE score, or by completing the ESL level 112 Intensive Program. For more information on international admission, visit the Office of Global Education's admission website.

**Transfer, Transitioning and Former Students:** For more information about admission criteria for transfer, transitioning and former students, please visit the admissions website.

## Program Learning Outcomes

Graduates of this program will be able to:

1. Display competence in verbal, nonverbal, and written communication.
2. Advocate courses of action to stimulate improved decision-making.
3. Influence others through demonstrated presentational speaking skills.

4. Communicate ethically.
5. Foster inclusive dialogues and tailor messages that respect diversity, empower others, and bring about social change.
6. Articulate creative, effective, and evidenced-based solutions to communication problems.
7. Coordinate action, solve problems, foster well-being, engage in critical thinking, and participate in civic life.
8. Communicate effectively in a technological, multicultural, and global society to bring about meaningful social change.
9. Apply information and media literacy in an effective and ethical manner.

The program learning outcomes reflect the University's commitment to excellence in teaching, research, creativity, and community outreach and engagement.

## University Requirements

All students in a bachelor's degree program at Kent State University must complete the following university requirements for graduation.

**NOTE:** University requirements may be fulfilled in this program by specific course requirements. Please see Program Requirements for details.

Destination Kent State: First Year Experience	1
Course is not required for students with 25 transfer credits, excluding College Credit Plus, or age 21+ at time of admission.	
Diversity Domestic/Global (DIVD/DIVG)	2 courses
Students must successfully complete one domestic and one global course, of which one must be from the Kent Core.	
Experiential Learning Requirement (ELR)	varies
Students must successfully complete one course or approved experience.	
Kent Core (see table below)	36-37
Writing-Intensive Course (WIC)	1 course
Students must earn a minimum C grade in the course.	
Upper-Division Requirement	39 (or 42)
Students must successfully complete 39 upper-division (numbered 30000 to 49999) credit hours to graduate. Students in a B.A. and/or B.S. degree in the College of Arts and Sciences must complete 42 upper-division credit hours.	
Total Credit Hour Requirement	120
Some bachelor's degrees require students to complete more than 120 credit hours.	

## Kent Core Requirements

Kent Core Composition (KCMP)	6
Kent Core Mathematics and Critical Reasoning (KMCR)	3
Kent Core Humanities and Fine Arts (KHUM/KFA) (min one course each)	9
Kent Core Social Sciences (KSS) (must be from two disciplines)	6
Kent Core Basic Sciences (KBS/KLAB) (must include one laboratory)	6-7
Kent Core Additional (KADL)	6
<b>Total Credit Hours:</b>	<b>36-37</b>

## Program Requirements

### Major Requirements

Code	Title	Credit Hours
<b>Major Requirements (courses count in major GPA)</b>		
COMM 15000	INTRODUCTION TO HUMAN COMMUNICATION (KADL)	3
COMM 20000	FOUNDATIONS OF COMMUNICATION (min C grade)	3
COMM 21000	COMMUNICATION GRAMMAR REVIEW (min C grade) <sup>1</sup>	1
COMM 30000	COMMUNICATION RESEARCH METHODS	3
COMM 45092	INTERNSHIP IN COMMUNICATION STUDIES (ELR)	3
or COMM 46091	SENIOR SEMINAR (ELR)	
or HONR 40099	SENIOR HONORS THESIS/PROJECT (ELR)	
COMM 45902	COMMUNICATION AND INFLUENCE (WIC) <sup>2</sup>	3
EMAT 10310	MY STORY ON THE WEB	3
Communication Studies (COMM) Upper-Division Electives (30000 or 40000 level)		9
<b>Additional Requirements (courses do not count in major GPA)</b>		
UC 10097	DESTINATION KENT STATE: FIRST YEAR EXPERIENCE	1
College of Communication and Information Core Electives, choose from the following:		9
CCI 12001	PHOTOGRAPHY	
EMAT 15310	CREATIVE CODING	
EMAT 33310	HUMAN-COMPUTER INTERACTION	
JMC 20001	MEDIA, POWER AND CULTURE (DIVD) (KSS)	
JMC 21008	SOCIAL MEDIA STRATEGIES	
LIS 30010	INFORMATION FLUENCY IN THE WORKPLACE AND BEYOND	
UXD 20001	INTRODUCTION TO USER EXPERIENCE DESIGN	
VCD 13000	DESIGN: PRINCIPLES, PROCESSES AND PRACTICE	
Kent Core Composition		6
Kent Core Mathematics and Critical Reasoning		3
Kent Core Humanities and Fine Arts (minimum one from each) <sup>3</sup>		9
Kent Core Social Sciences (must be from two disciplines) <sup>4</sup>		6
Kent Core Basic Sciences (must include one laboratory)		6-7
Kent Core Additional		3
General Electives (total credit hours depends on earning 120 credits hour, including 39 upper-division credit hours)		28
<b>Concentrations</b>		
Choose from the following:		21
Applied Communication		
Communication Studies-General		
Global Communication		
Media and Society		
Relational and Workplace Communication		
Minimum Total Credit Hours:		120

<sup>1</sup> If a student doesn't earn a minimum C grade in COMM 21000 after the second attempt, they can substitute ENG 31001 Fundamentals of English Grammar with advisor approval.

<sup>2</sup> A minimum C grade is required in either COMM 35864, COMM 40001 or COMM 45902 to fulfill the writing-intensive requirement

<sup>3</sup> Students who choose COMM 26000 will need to fulfill 6 credit hours of Kent Core Humanities and Fine Arts. Students who do not choose COMM 26000 will need to fulfill 9 credit hours of Kent Core Humanities and Fine Arts.

<sup>4</sup> Students who choose JMC 20001 to fulfill a College of Communication and Information Core Elective will need to fulfill 3 credit hours of Kent Core Social Science. Students who do not choose JMC 20001 will need to fulfill 6 credit hours of Kent Core Social Science.

### Applied Communication Concentration Requirements

Code	Title	Credit Hours
<b>Concentration Requirements (courses count in major GPA)</b>		
COMM 26000	CRITICISM OF PUBLIC DISCOURSE (DIVD) (KHUM)	3
or COMM 35852	INTERCULTURAL COMMUNICATION (DIVG)	
or COMM 35912	GENDER AND COMMUNICATION (DIVD)	
or COMM 46605	COMMUNICATION ACROSS THE LIFESPAN (DIVD)	
COMM 35864	ORGANIZATIONAL COMMUNICATION	3
COMM 45807	HIGH IMPACT PROFESSIONAL SPEAKING	3
JMC 20005	FUNDAMENTALS OF MEDIA MESSAGES	3
VCD 37000	VISUAL DESIGN FOR MEDIA: ADVANCED	3
Communication and Information Interdisciplinary Electives, choose from the following		6
Communication and Information (CCI)		
Emerging Media and Technology (EMAT)		
Journalism and Mass Communication (JMC)		
Library and Information Science (LIS)		
User Experience Design (UXD)		
Visual Communication Design (VCD)		
Minimum Total Credit Hours:		21

### Communication Studies-General Concentration Requirements

Code	Title	Credit Hours
<b>Concentration Requirements (courses count in major GPA)</b>		
COMM 26000	CRITICISM OF PUBLIC DISCOURSE (DIVD) (KHUM)	3
or COMM 35852	INTERCULTURAL COMMUNICATION (DIVG)	
or COMM 35912	GENDER AND COMMUNICATION (DIVD)	
or COMM 46605	COMMUNICATION ACROSS THE LIFESPAN (DIVD)	
Communication Studies (COMM) Sophomore, Junior or Senior Elective (20000, 30000 or 40000-level)		18
Minimum Total Credit Hours:		21

### Global Communication Concentration Requirements

Code	Title	Credit Hours
<b>Concentration Requirements (courses count in major GPA)</b>		
COMM 26000	CRITICISM OF PUBLIC DISCOURSE (DIVD) (KHUM)	3
or COMM 35912	GENDER AND COMMUNICATION (DIVD)	
or COMM 46605	COMMUNICATION ACROSS THE LIFESPAN (DIVD)	
COMM 35852	INTERCULTURAL COMMUNICATION (DIVG)	3
COMM 45678	SOCIAL MEDIA AND GLOBALIZATION	3
COMM 45756	INTERNATIONAL COMMUNICATION	3

COMM 45776	COMMUNICATION AND TERRORISM	3
Communication Studies (COMM) Sophomore, Junior or Senior Elective (20000, 30000 or 40000-level)		6
Minimum Total Credit Hours:		21

## Media and Society Concentration Requirements

Code	Title	Credit Hours
<b>Concentration Requirements (courses count in major GPA)</b>		
COMM 26000	CRITICISM OF PUBLIC DISCOURSE (DIVD) (KHUM)	3
or COMM 35852	INTERCULTURAL COMMUNICATION (DIVG)	
or COMM 35912	GENDER AND COMMUNICATION (DIVD)	
or COMM 46605	COMMUNICATION ACROSS THE LIFESPAN (DIVD)	
COMM 26001	PUBLIC COMMUNICATION IN SOCIETY	3
COMM 45006	MEDIA USE AND EFFECTS	3
COMM 45007	FREEDOM OF SPEECH	3
COMM 45903	COMMUNICATION CAMPAIGNS (ELR)	3
Communication Studies (COMM) Sophomore, Junior or Senior Elective (20000, 30000 or 40000-level)		6
Minimum Total Credit Hours:		21

## Relational and Workplace Communication Concentration Requirements

Code	Title	Credit Hours
<b>Concentration Requirements (courses count in major GPA)</b>		
COMM 20001	INTERPERSONAL COMMUNICATION	3
COMM 26000	CRITICISM OF PUBLIC DISCOURSE (DIVD) (KHUM)	3
or COMM 35852	INTERCULTURAL COMMUNICATION (DIVG)	
or COMM 35912	GENDER AND COMMUNICATION (DIVD)	
or COMM 46605	COMMUNICATION ACROSS THE LIFESPAN (DIVD)	
COMM 35864	ORGANIZATIONAL COMMUNICATION	3
COMM 35600	COMMUNICATION IN SMALL GROUPS AND TEAMS	3
COMM 45459	COMMUNICATION AND CONFLICT	3
Communication Studies (COMM) Sophomore, Junior or Senior Elective (20000, 30000 or 40000-level)		6
Minimum Total Credit Hours:		21

## Graduation Requirements

Minimum Major GPA	Minimum Overall GPA
2.250	2.000

- Any COMM course taken is calculated in the major GPA.
- The School of Communication Studies generally will approve dual concentrations for Communication Studies students as long as there are at least 12 credit hours of coursework in the concentration elective courses exclusively applied to each concentration (resulting in a total of 24 credit hours of unique concentration electives across the two concentrations). Students must also complete all of the other concentration requirements specific to each concentration, in addition to differentiating their major elective courses across the two concentrations. If one of the dual concentration choices is either the Applied or the Global Communication concentration, students may select courses from across the College of Communication and

Information in their elective choices for completing that part of the dual concentration. Any other duplicative course requirements for the two concentrations beyond the requirements specified above may be double counted when completing a dual concentration option. Students electing a dual concentration must meet with an advisor to plan an individualized plan of study that meets these requirements before the dual concentration option will be approved for that student. Any changes made to the program of study also must be approved by an advisor, or the student may not be allowed to graduate with this option.

## Roadmaps

- Applied Communication Concentration
- Communication Studies-General Concentration
- Global Communication Concentration
- Media and Society Concentration
- Relational and Workplace Concentration

## APPLIED COMMUNICATION CONCENTRATION

This roadmap is a recommended semester-by-semester plan of study for this major. However, courses designated as critical (!) must be completed in the semester listed to ensure a timely graduation.

Semester One		Credits
COMM 15000	INTRODUCTION TO HUMAN COMMUNICATION (KADL)	3
!	COMM 20000 FOUNDATIONS OF COMMUNICATION	3
UC 10097	DESTINATION KENT STATE: FIRST YEAR EXPERIENCE	1
College of Communication and Information Core Electives		3
Kent Core Requirement		3
Kent Core Requirement		3
Credit Hours		16
Semester Two		
COMM 21000	COMMUNICATION GRAMMAR REVIEW	1
College of Communication and Information Core Electives		3
Communication and Information Interdisciplinary Electives		3
Kent Core Requirement		3
Kent Core Requirement		3
Kent Core Requirement		3
Credit Hours		16
Semester Three		
COMM 26000	CRITICISM OF PUBLIC DISCOURSE (DIVD) (KHUM)	3
or COMM 35852	or INTERCULTURAL COMMUNICATION (DIVG)	
or COMM 35912	or GENDER AND COMMUNICATION (DIVD)	
or COMM 46605	or COMMUNICATION ACROSS THE LIFESPAN (DIVD)	
JMC 20005	FUNDAMENTALS OF MEDIA MESSAGES	3
Kent Core Requirement		3
Kent Core Requirement		3
Kent Core Requirement		3
Credit Hours		15
Semester Four		
VCD 37000	VISUAL DESIGN FOR MEDIA: ADVANCED	3
College of Communication and Information Core Electives		3
Communication and Information Interdisciplinary Electives		3

Kent Core Requirement	3
Kent Core Requirement	3
Credit Hours	15
<b>Semester Five</b>	
COMM 30000 COMMUNICATION RESEARCH METHODS	3
EMAT 10310 MY STORY ON THE WEB	3
Kent Core Requirement	3
General Electives	6
Credit Hours	15
<b>Semester Six</b>	
COMM 45902 COMMUNICATION AND INFLUENCE (WIC)	3
Communication Studies (COMM) Upper-Division Electives (30000 or 40000 level)	3
General Electives	9
Credit Hours	15
<b>Semester Seven</b>	
COMM 35864 ORGANIZATIONAL COMMUNICATION	3
COMM 45807 HIGH IMPACT PROFESSIONAL SPEAKING	3
Communication Studies (COMM) Upper-Division Electives (30000 or 40000 level)	3
General Electives	6
Credit Hours	15
<b>Semester Eight</b>	
COMM 45092 INTERNSHIP IN COMMUNICATION STUDIES (ELR) or COMM 46091 or SENIOR SEMINAR (ELR) or HONR 40099 or SENIOR HONORS THESIS/PROJECT (ELR)	3
Communication Studies (COMM) Upper-Division Electives (30000 or 40000 level)	3
General Electives	7
Credit Hours	13
Minimum Total Credit Hours:	120

## Communication Studies-General Concentration

This roadmap is a recommended semester-by-semester plan of study for this major. However, courses designated as critical (!) must be completed in the semester listed to ensure a timely graduation.

<b>Semester One</b>		<b>Credits</b>
!	COMM 20000 FOUNDATIONS OF COMMUNICATION	3
	COMM 15000 INTRODUCTION TO HUMAN COMMUNICATION (KADL)	3
	UC 10097 DESTINATION KENT STATE: FIRST YEAR EXPERIENCE	1
	College of Communication and Information Core Electives	3
	Kent Core Requirement	3
	Kent Core Requirement	3
	Credit Hours	16
<b>Semester Two</b>		
	COMM 21000 COMMUNICATION GRAMMAR REVIEW	1
	Communication Studies (COMM) Sophomore, Junior or Senior Elective (20000, 30000 or 40000-level)	3
	Kent Core Requirement	3
	Kent Core Requirement	3
	Kent Core Requirement	3
	Kent Core Requirement	3
	Credit Hours	16
<b>Semester Three</b>		
	COMM 26000 CRITICISM OF PUBLIC DISCOURSE (DIVD) or (KHUM)	3
	COMM 35852 or INTERCULTURAL COMMUNICATION (DIVG) or GENDER AND COMMUNICATION (DIVD)	
	COMM 35912 or COMMUNICATION ACROSS THE LIFESPAN or (DIVD)	
	COMM 46605	
	Communication Studies (COMM) Sophomore, Junior or Senior Elective (20000, 30000 or 40000-level)	3
	College of Communication and Information Core Electives	3
	Kent Core Requirement	3
	Kent Core Requirement	3
	Credit Hours	15
<b>Semester Four</b>		
	COMM 30000 COMMUNICATION RESEARCH METHODS	3
	Communication Studies (COMM) Sophomore, Junior or Senior Elective (20000, 30000 or 40000-level)	3
	College of Communication and Information Core Electives	3
	Kent Core Requirement	3
	Kent Core Requirement	3
	Credit Hours	15
<b>Semester Five</b>		
	EMAT 10310 MY STORY ON THE WEB	3
	Communication Studies (COMM) Sophomore, Junior or Senior Elective (20000, 30000 or 40000-level)	3
	Kent Core Requirement	3
	General Electives	6
	Credit Hours	15
<b>Semester Six</b>		
	COMM 45902 COMMUNICATION AND INFLUENCE (WIC)	3
	Communication Studies (COMM) Sophomore, Junior or Senior Elective (20000, 30000 or 40000-level)	6
	General Electives	6
	Credit Hours	15

### Semester Seven

Communication Studies (COMM) Upper-Division Electives (30000 or 40000 level)	6
General Electives	9
Credit Hours	15
<b>Semester Eight</b>	
COMM 45092 INTERNSHIP IN COMMUNICATION STUDIES or (ELR)	3
COMM 46091 or SENIOR SEMINAR (ELR) or SENIOR HONORS THESIS/PROJECT (ELR)	
HONR 40099	
Communication Studies (COMM) Upper-Division Electives (30000 or 40000 level)	3
General Electives	7
Credit Hours	13
Minimum Total Credit Hours:	120



## Global Communication Concentration

This roadmap is a recommended semester-by-semester plan of study for this major. However, courses designated as critical (!) must be completed in the semester listed to ensure a timely graduation.

<b>Semester One</b>		<b>Credits</b>
!	COMM 20000 FOUNDATIONS OF COMMUNICATION	3
	COMM 15000 INTRODUCTION TO HUMAN COMMUNICATION (KADL)	3
	UC 10097 DESTINATION KENT STATE: FIRST YEAR EXPERIENCE	1
College of Communication and Information Core Elective		3
Kent Core Requirement		3
Kent Core Requirement		3
Credit Hours		16
<b>Semester Two</b>		
	COMM 21000 COMMUNICATION GRAMMAR REVIEW	1
	COMM 35852 INTERCULTURAL COMMUNICATION (DIVG)	3
Kent Core Requirement		3
Kent Core Requirement		3
Kent Core Requirement		3
Kent Core Requirement		3
Credit Hours		16
<b>Semester Three</b>		
	COMM 26000 CRITICISM OF PUBLIC DISCOURSE (DIVD) or (KHUM)	3
	COMM 35912 or GENDER AND COMMUNICATION (DIVD) or or COMMUNICATION ACROSS THE LIFESPAN	
	COMM 46605 (DIVD)	
	COMM 45756 INTERNATIONAL COMMUNICATION	3
College of Communication and Information Core Elective		3
Kent Core Requirement		3
Kent Core Requirement		3
Credit Hours		15
<b>Semester Four</b>		
	COMM 30000 COMMUNICATION RESEARCH METHODS	3
College of Communication and Information Core Elective		3
Kent Core Requirement		3
Kent Core Requirement		3
General Electives		3
Credit Hours		15
<b>Semester Five</b>		
	EMAT 10310 MY STORY ON THE WEB	3
General Electives		9
Kent Core Requirement		3
Credit Hours		15
<b>Semester Six</b>		
	COMM 45678 SOCIAL MEDIA AND GLOBALIZATION	3
	COMM 45902 COMMUNICATION AND INFLUENCE (WIC)	3
Communication Studies (COMM) Sophomore, Junior or Senior Elective (20000, 30000 or 40000-level)		6
General Electives		3
Credit Hours		15
<b>Semester Seven</b>		
	COMM 45776 COMMUNICATION AND TERRORISM	3
Communication Studies (COMM) Upper-Division Electives (30000 or 40000 level)		6

General Electives		6
Credit Hours		15
<b>Semester Eight</b>		
COMM 45092	INTERNSHIP IN COMMUNICATION STUDIES (ELR)	3
or	COMM 46091 or SENIOR SEMINAR (ELR)	
	or SENIOR HONORS THESIS/PROJECT (ELR)	
	HONR 40099	
Communication Studies (COMM) Upper-Division Electives (30000 or 40000 level)		3
General Electives		7
Credit Hours		13
Minimum Total Credit Hours:		120

## Media and Society Concentration

This roadmap is a recommended semester-by-semester plan of study for this major. However, courses designated as critical (!) must be completed in the semester listed to ensure a timely graduation.

Semester One		Credits
COMM 15000	INTRODUCTION TO HUMAN COMMUNICATION (KADL)	3
! COMM 20000	FOUNDATIONS OF COMMUNICATION	3
UC 10097	DESTINATION KENT STATE: FIRST YEAR EXPERIENCE	1
College of Communication and Information Core Electives		3
Kent Core Requirement		3
Kent Core Requirement		3
Credit Hours		16
Semester Two		Credits
COMM 21000	COMMUNICATION GRAMMAR REVIEW	1
COMM 26001	PUBLIC COMMUNICATION IN SOCIETY	3
College of Communication and Information Core Electives		3
Kent Core Requirement		3
Kent Core Requirement		3
Kent Core Requirement		3
Credit Hours		16
Semester Three		Credits
COMM 26000	CRITICISM OF PUBLIC DISCOURSE (DIVD) or (KHUM)	3
or	COMM 35852 or INTERCULTURAL COMMUNICATION (DIVG) or GENDER AND COMMUNICATION (DIVD)	
or	COMM 35912 or COMMUNICATION ACROSS THE LIFESPAN (DIVD)	
or	COMM 46605	
College of Communication and Information Core Electives		3
Kent Core Requirement		3
Kent Core Requirement		3
Kent Core Requirement		3
Credit Hours		15
Semester Four		Credits
COMM 30000	COMMUNICATION RESEARCH METHODS	3
Communication Studies (COMM) Sophomore, Junior or Senior Elective (20000, 30000 or 40000-level)		3
Kent Core Requirement		3
Kent Core Requirement		3
Kent Core Requirement		3
Credit Hours		15
Semester Five		Credits
COMM 45006	MEDIA USE AND EFFECTS	3
EMAT 10310	MY STORY ON THE WEB	3
Communication Studies (COMM) Sophomore, Junior or Senior Elective (20000, 30000 or 40000-level)		3
General Electives		6
Credit Hours		15
Semester Six		Credits
COMM 45007	FREEDOM OF SPEECH	3
Communication Studies (COMM) Upper-Division Electives (30000 or 40000 level)		3
General Electives		9
Credit Hours		15

### Semester Seven

COMM 45902	COMMUNICATION AND INFLUENCE (WIC)	3
COMM 45903	COMMUNICATION CAMPAIGNS (ELR)	3
Communication Studies (COMM) Upper-Division Electives (30000 or 40000 level)		3
General Electives		6
Credit Hours		15
Semester Eight		Credits
COMM 45092	INTERNSHIP IN COMMUNICATION STUDIES (ELR)	3
or	COMM 46091 or SENIOR SEMINAR (ELR) or SENIOR HONORS THESIS/PROJECT (ELR)	
or	HONR 40099	
Communication Studies (COMM) Upper-Division Electives (30000 or 40000 level)		3
General Electives		7
Credit Hours		13
Minimum Total Credit Hours:		120

## Relational and Workplace Communication Concentration

This roadmap is a recommended semester-by-semester plan of study for this major. However, courses designated as critical (!) must be completed in the semester listed to ensure a timely graduation.

Semester One		Credits
COMM 15000	INTRODUCTION TO HUMAN COMMUNICATION (KADL)	3
! COMM 20000	FOUNDATIONS OF COMMUNICATION	3
UC 10097	DESTINATION KENT STATE: FIRST YEAR EXPERIENCE	1
College of Communication and Information Core Electives		3
Kent Core Requirement		3
Kent Core Requirement		3
Credit Hours		16
Semester Two		Credits
! COMM 20001	INTERPERSONAL COMMUNICATION	3
COMM 21000	COMMUNICATION GRAMMAR REVIEW	1
College of Communication and Information Core Electives		3
Kent Core Requirement		3
Kent Core Requirement		3
Kent Core Requirement		3
Credit Hours		16
Semester Three		Credits
COMM 26000	CRITICISM OF PUBLIC DISCOURSE (DIVD) or (KHUM)	3
or	COMM 35852 or INTERCULTURAL COMMUNICATION (DIVG) or GENDER AND COMMUNICATION (DIVD)	
or	COMM 35912 or COMMUNICATION ACROSS THE LIFESPAN (DIVD)	
or	COMM 46605	
College of Communication and Information Core Electives		3
Kent Core Requirement		3
Kent Core Requirement		3
Kent Core Requirement		3
Credit Hours		15
Semester Four		Credits
! COMM 30000	COMMUNICATION RESEARCH METHODS	3
Communication Studies (COMM) Sophomore, Junior or Senior Elective (20000, 30000 or 40000-level)		3

Kent Core Requirement	3
Kent Core Requirement	3
Kent Core Requirement	3
Credit Hours	15
<b>Semester Five</b>	
COMM 35864 ORGANIZATIONAL COMMUNICATION	3
EMAT 10310 MY STORY ON THE WEB	3
Communication Studies (COMM) Sophomore, Junior or Senior Elective (20000, 30000 or 40000-level)	3
General Electives	6
Credit Hours	15
<b>Semester Six</b>	
COMM 35600 COMMUNICATION IN SMALL GROUPS AND TEAMS	3
COMM 45902 COMMUNICATION AND INFLUENCE (WIC)	3
Communication Studies (COMM) Upper-Division Electives (30000 or 40000 level)	3
General Electives	6
Credit Hours	15
<b>Semester Seven</b>	
COMM 45459 COMMUNICATION AND CONFLICT	3
Communication Studies (COMM) Upper-Division Electives (30000 or 40000 level)	6
General Electives	6
Credit Hours	15
<b>Semester Eight</b>	
COMM 45092 INTERNSHIP IN COMMUNICATION STUDIES or (ELR)	3
COMM 46091 or SENIOR SEMINAR (ELR)	
or SENIOR HONORS THESIS/PROJECT (ELR)	
HONR 40099	
General Electives	10
Credit Hours	13
Minimum Total Credit Hours:	120

# Communication Studies - M.A.

## College of Communication and Information

School of Communication Studies

201 Taylor Hall

Kent Campus

330-672-2659

comm@kent.edu

www.kent.edu/comm

## Description

The Master of Arts degree in Communication Studies is intended to provide a broad spectrum of knowledge about human communication in various social contexts, and the ways in which information is produced and processed. Curriculum focus is on the social and behavioral study of communication theory and research. The program prepares individuals to pursue a doctorate degree, as well as for non-academic careers in which a broad understanding of communication theory and research is desirable.

## Fully Offered At:

- Kent Campus

## Admission Requirements

- Bachelor's degree from an accredited college or university for unconditional admission
- Minimum 3.000 undergraduate GPA on a 4.000 point scale for unconditional admission
- Official transcript(s)
- GRE scores are required only for applicants seeking a graduate assistantship (Effective Spring 2021, GRE scores will no longer be required)
- Goal statement
- Sample of scholarly writing
- Three letters of recommendation
- English language proficiency - all international students must provide proof of English language proficiency (unless they meet specific exceptions) by earning one of the following:
  - Minimum 587 TOEFL PBT score (paper-based version)
  - Minimum 94 TOEFL IBT score (Internet-based version)
  - Minimum 82 MELAB score
  - Minimum 7.0 IELTS score
  - Minimum 65 PTE score
  - Minimum 110 Duolingo English Test score

For more information about graduate admissions, please visit the Graduate Studies admission website. For more information on international admission, visit the Office of Global Education's admission website.

## Program Learning Outcomes

Graduates of the program will be able to:

1. Read, critique and engage in theory-based research involving a broad spectrum of topics in human communication.

2. Understand and master appropriate methodological skills for the study of human communication and apply them to relevant and shifting real-world contexts that often include newer communication technologies.
3. Utilize theory-based and state-of-the-art knowledge to stimulate and improve communication processes in educational, business and nonprofit environments.

## Program Requirements

### Major Requirements

Code	Title	Credit Hours
<b>Major Requirements</b>		
COMM 65000	FOUNDATIONS OF COMMUNICATION INQUIRY	3
COMM 65020	QUANTITATIVE RESEARCH METHODS IN COMMUNICATION	3
or COMM 65040	QUALITATIVE RESEARCH METHODS IN COMMUNICATION	
COMM 65652	THEORIES OF COMMUNICATION	3
Culminating Requirement, choose from the following:		21
<i>Thesis Option</i>		
COMM 60199	THESIS I	
Communication Studies (COMM) Electives <sup>1</sup>		
<i>Coursework-only Option</i>		
Communication Studies (COMM) Electives <sup>1</sup>		
<i>Project Option</i>		
COMM 61198	MASTERS PROJECT IN COMMUNICATION STUDIES	
Communication Studies (COMM) Electives <sup>1</sup>		
<i>Internship Option</i>		
COMM 64092	MASTERS INTERNSHIP IN COMMUNICATION STUDIES	
Communication Studies (COMM) Electives <sup>1</sup>		
Minimum Total Credit Hours:		30

<sup>1</sup> A minimum of 9 credit hours must be at the 60000-level. Up to 6 credit hours may be taken from programs outside of Communication Studies. A maximum of 4 credit hours of workshop coursework may be taken.

## Dual degree with M.B.A. degree in Business Administration

Students have the opportunity to complete a dual degree program with the M.A. degree in Communication Studies and the M.B.A. degree in Business Administration. A separate application must be submitted for each program. Students can view admission requirements for each program on their respective catalog page.

The dual M.A./M.B.A. degree program is designed for students and professionals whose career goals focus on communication, particularly global communication, and provides direction and leadership in economic and business development processes.

## Dual Degree Requirements

Code	Title	Credit Hours
<b>Major Requirements</b>		
ACCT 63037	FINANCIAL ACCOUNTING FOR DECISION MAKING	2
ACCT 63038	MANAGERIAL ACCOUNTING FOR DECISION MAKING	2
COMM 65000	FOUNDATIONS OF COMMUNICATION INQUIRY	3
COMM 65652	THEORIES OF COMMUNICATION	3
COMM 65851	ORGANIZATIONAL COMMUNICATION	3
COMM 65020	QUANTITATIVE RESEARCH METHODS IN COMMUNICATION	2-3
or MIS 64005	ANALYTICS FOR DECISION MAKING	
ECON 62021	GLOBAL CONDITIONS AND MACROECONOMICS POLICY	2
ECON 62022	MANAGERIAL ECONOMICS	2
FIN 66050	LAW AND ETHICS	2
FIN 66060	MANAGERIAL FINANCE	2
MIS 64041	OPERATIONS, SERVICE AND SUPPLY CHAIN MANAGEMENT	2
MIS 64042	GLOBALIZATION AND TECHNOLOGY STRATEGY	2
MIS 64185	BUSINESS STRATEGY	3
MIS 64271	HUMAN RESOURCE MANAGEMENT	2
MIS 68051	BUSINESS PROFESSIONAL DEVELOPMENT I	1
MKTG 65051	MARKETING MANAGEMENT	2
Business Elective		6-7
Communication Studies (COMM) Electives, choose from the following options:		18
<i>Thesis Option</i>		
COMM 60199	THESIS I	
Communication Studies (COMM) Electives		
<i>Coursework Only Option</i>		
Communication Studies (COMM) Electives		
<i>Project Option</i>		
COMM 61198	MASTERS PROJECT IN COMMUNICATION STUDIES	
Communication Studies (COMM) Electives		
<i>Internship Option</i>		
COMM 64092	MASTERS INTERNSHIP IN COMMUNICATION STUDIES	
Communication Studies (COMM) Electives		
Minimum Total Credit Hours:		60

## Communication Studies - Minor

### College of Communication and Information

School of Communication Studies

201 Taylor Hall

Kent Campus

330-672-2659

comm@kent.edu

www.kent.edu/comm

## Description

The Communication Studies minor allows students to improve their speaking abilities, as well as their listening, problem-solving and decision-making skills. Effective communication skills are consistently rated as one of the top three proficiencies employers desire in new hires. Whether students' major is in architecture or zoology, communication skills are necessary for effective interaction.

### Fully Offered At:

- Kent Campus
- Stark Campus

## Admission Requirements

Admission to a minor is open to students declared in a bachelor's degree, the A.A.B. or A.A.S. degree or the A.T.S. degree (not Individualized Program major). Students declared only in the A.A. or A.S. degree or the A.T.S. degree in Individualized Program may not declare a minor. Students may not pursue a minor and a major in the same discipline.

To declare the Communication Studies minor, students must have a minimum 2.000 overall Kent State University GPA. No Kent State University GPA is required if the student is a first-semester freshman or transfer student admitted in good standing.

## Minor Requirements

Code	Title	Credit Hours
<b>Minor Requirements</b>		
COMM 15000	INTRODUCTION TO HUMAN COMMUNICATION (KADL)	3
COMM 25902	COMMUNICATION THEORY	3
COMM 30000	COMMUNICATION RESEARCH METHODS	3
COMM 35852	INTERCULTURAL COMMUNICATION (DIVG)	3
COMM 35912	GENDER AND COMMUNICATION (DIVD)	3
COMM 45459	COMMUNICATION AND CONFLICT	3
Minimum Total Credit Hours:		18

## Graduation Requirements

Minimum Minor GPA	Minimum Overall GPA
2.250	2.000

- Minimum 6 credit hours in the minor must be upper-division coursework (30000 and 40000 level).
- Minimum 6 credit hours in the minor must be outside of the course requirements for any major or other minor the student is pursuing.
- Minimum 50 percent of the total credit hours for the minor must be taken at Kent State (in residence).

## Global Communication - Minor

### College of Communication and Information

School of Communication Studies

201 Taylor Hall

Kent Campus

330-672-2659

comm@kent.edu

www.kent.edu/comm



## Description

The Global Communication minor is designed to provide graduates with some of the theoretical, practical and cultural sensitivity skills to use communication most effectively in global organizations and environments of all kinds. Globalization is a multi-faceted and irreversible phenomenon in the world today. It is due largely to the increase in the development and use of communication technologies and the global flow of communication and information. The effects of globalization are striking, including changes in industrial, financial, economic, health policy, political, informational and cultural practices.

### Fully Offered At:

- Kent Campus

## Admission Requirements

Admission to a minor is open to students declared in a bachelor's degree, the A.A.B. or A.A.S. degree or the A.T.S. degree (not Individualized Program major). Students declared only in the A.A. or A.S. degree or the A.T.S. degree in Individualized Program may not declare a minor. Students may not pursue a minor and a major in the same discipline.

To declare the Global Communication minor, students must have a minimum 2.000 overall Kent State University GPA. No Kent State University GPA is required if the student is a first-semester freshman or transfer student admitted in good standing.

## Minor Requirements

Code	Title	Credit Hours
<b>Minor Requirements</b>		
COMM 15000	INTRODUCTION TO HUMAN COMMUNICATION (KADL)	3
COMM 25902	COMMUNICATION THEORY	3
COMM 35852	INTERCULTURAL COMMUNICATION (DIVG)	3
COMM 45766	COMMUNICATION IN A GLOBAL SOCIETY	3
Minor Electives, choose from the following:		9
COMM 35864	ORGANIZATIONAL COMMUNICATION	
COMM 36505	COMMUNICATION, AGING AND CULTURE	
COMM 42000	MEDIA, WAR AND PROPAGANDA	
COMM 43000	COMMUNICATION TECHNOLOGY AND HUMAN INTERACTION	
COMM 45902	COMMUNICATION AND INFLUENCE (WIC)	
COMM 45957	LANGUAGE, MEANING AND COGNITION	
JMC 40009	COMPARATIVE MEDIA SYSTEMS	
VCD 45000	GRAPHIC DESIGN PERSPECTIVES (WIC)	
Minimum Total Credit Hours:		21

## Graduation Requirements

Minimum Minor GPA	Minimum Overall GPA
2.250	2.000

- Minimum 6 credit hours in the minor must be upper-division coursework (30000 and 40000 level).
- Minimum 6 credit hours in the minor must be outside of the course requirements for any major or other minor the student is pursuing.

- Minimum 50 percent of the total credit hours for the minor must be taken at Kent State (in residence).

## Health Communication - Minor

### College of Communication and Information

School of Communication Studies

201 Taylor Hall

Kent Campus

330-672-2659

comm@kent.edu

www.kent.edu/comm

## Description

The Health Communication minor allows students pursuing health-related degrees (e.g., nursing, public health) to develop communication skills specific to health and health care contexts. Students can gain coursework in communicating about health in interpersonal and health care contexts, as well as coursework in processing and effects of various types of health messages, including those occurring via new media technologies.

The Health Communication minor can complement numerous health-related degrees and help students develop critically important health communication skills.

### Fully Offered At:

- Kent Campus

## Admission Requirements

Admission to a minor is open to students declared in a bachelor's degree, the A.A.B. or A.A.S. degree or the A.T.S. degree (not Individualized Program major). Students declared only in the A.A. or A.S. degree or the A.T.S. degree in Individualized Program may not declare a minor. Students may not pursue a minor and a major in the same discipline.

To declare the Health Communication minor, students must have a minimum 2.000 overall Kent State University GPA. No Kent State University GPA is required if the student is a first-semester freshman or transfer student admitted in good standing.

## Minor Requirements

Code	Title	Credit Hours
<b>Minor Requirements</b>		
COMM 15000	INTRODUCTION TO HUMAN COMMUNICATION (KADL)	3
COMM 25902	COMMUNICATION THEORY	3
COMM 26501	INTRODUCTION TO HEALTH COMMUNICATION	3
Minor Electives, choose from the following:		9
COMM 36501	COMMUNICATION IN HEALTH CARE	
COMM 36505	COMMUNICATION, AGING AND CULTURE	
COMM 45902	COMMUNICATION AND INFLUENCE (WIC)	
COMM 46503	HEALTH COMMUNICATION AND MEDIA	
COMM 46507	EVERYDAY INTERPERSONAL COMMUNICATION AND HEALTH	
Minimum Total Credit Hours:		18

## Graduation Requirements

Minimum Minor GPA	Minimum Overall GPA
2.250	2.000

- Minimum 6 credit hours in the minor must be upper-division coursework (30000 and 40000 level).
- Minimum 6 credit hours in the minor must be outside of the course requirements for any major or other minor the student is pursuing.
- Minimum 50 percent of the total credit hours for the minor must be taken at Kent State (in residence).

## Interpersonal Communication - Minor

### College of Communication and Information

School of Communication Studies

201 Taylor Hall

Kent Campus

330-672-2950

comm@kent.edu

www.kent.edu/comm

## Description

The interpersonal communication minor serves students interested in improving their interpersonal communication skills and knowledge in personal or professional communication settings.

The coursework allows students to investigate communication in families, personal relationships and across the life span. Because not all interpersonal communication happens face-to-face, students also have the opportunity to learn about the role of the Internet, social networking sites, text messaging and other new media forms in the interpersonal communication process.

The Interpersonal Communication minor may benefit students interested in sales, human resources, counseling or teaching.

### Fully Offered At:

- Kent Campus
- Stark Campus

## Admission Requirements

Admission to a minor is open to students declared in a bachelor's degree, the A.A.B. or A.A.S. degree or the A.T.S. degree (not Individualized Program major). Students declared only in the A.A. or A.S. degree or the A.T.S. degree in Individualized Program may not declare a minor. Students may not pursue a minor and a major in the same discipline.

To declare the Interpersonal Communication minor, students must have a minimum 2.000 overall Kent State University GPA. No Kent State University GPA is required if the student is a first-semester freshman or transfer student admitted in good standing.

## Minor Requirements

Code	Title	Credit Hours
<b>Minor Requirements</b>		
COMM 15000	INTRODUCTION TO HUMAN COMMUNICATION (KADL)	3

COMM 20001	INTERPERSONAL COMMUNICATION	3
COMM 25902	COMMUNICATION THEORY	3
Minor Electives, choose from the following:		9
COMM 35600	COMMUNICATION IN SMALL GROUPS AND TEAMS	
COMM 36505	COMMUNICATION, AGING AND CULTURE	
COMM 40001	ADVANCED INTERPERSONAL COMMUNICATION	
COMM 45957	LANGUAGE, MEANING AND COGNITION	
COMM 45959	NONVERBAL COMMUNICATION	
COMM 46601	RELATIONAL COMMUNICATION	
COMM 46605	COMMUNICATION ACROSS THE LIFESPAN (DIVD)	
COMM 46608	FAMILY COMMUNICATION	

Minimum Total Credit Hours: 18

## Graduation Requirements

Minimum Minor GPA	Minimum Overall GPA
2.250	2.000

- Minimum 6 credit hours in the minor must be upper-division coursework (30000 and 40000 level).
- Minimum 6 credit hours in the minor must be outside of the course requirements for any major or other minor the student is pursuing.
- Minimum 50 percent of the total credit hours for the minor must be taken at Kent State (in residence).

## Organizational Communication - Minor

### College of Communication and Information

School of Communication Studies

201 Taylor Hall

Kent Campus

330-672-2659

comm@kent.edu

www.kent.edu/comm

## Description

The Organizational Communication minor provides students the opportunity to study organizational culture and the ways in which communication occurs in organizations. The minor examines issues such as communication and effective training, development, and consulting; presentational and interviewing skills; organizational leadership; and small group and team interaction.

Minor coursework also explores the latest technological developments in organizational communication, including teleconferencing, telecommuting and social networking

This minor is particularly applicable for students in business management, sales, marketing, finance, accounting, human resources, public relations, hospitality management, fashion merchandising and event planning.

**Fully Offered At:**

- Kent Campus
- Stark Campus

**Admission Requirements**

Admission to a minor is open to students declared in a bachelor's degree, the A.A.B. or A.A.S. degree or the A.T.S. degree (not Individualized Program major). Students declared only in the A.A. or A.S. degree or the A.T.S. degree in Individualized Program may not declare a minor. Students may not pursue a minor and a major in the same discipline.

To declare the Organizational Communication minor, students must have a minimum 2.000 overall Kent State University GPA. No Kent State University GPA is required if the student is a first-semester freshman or transfer student admitted in good standing.

**Minor Requirements**

Code	Title	Credit Hours
<b>Minor Requirements</b>		
COMM 15000	INTRODUCTION TO HUMAN COMMUNICATION (KADL)	3
COMM 25863	BUSINESS AND PROFESSIONAL COMMUNICATION	3
COMM 25902	COMMUNICATION THEORY	3
Minor Electives, choose from the following:		9
COMM 35600	COMMUNICATION IN SMALL GROUPS AND TEAMS	
COMM 35860	INTERVIEWING	
COMM 35864	ORGANIZATIONAL COMMUNICATION	
COMM 45865	ORGANIZATIONAL COMMUNICATION TRAINING AND DEVELOPMENT	
Minimum Total Credit Hours:		18

**Graduation Requirements**

Minimum Minor GPA	Minimum Overall GPA
2.250	2.000

- Minimum 6 credit hours in the minor must be upper-division coursework (30000 and 40000 level).
- Minimum 6 credit hours in the minor must be outside of the course requirements for any major or other minor the student is pursuing.
- Minimum 50 percent of the total credit hours for the minor must be taken at Kent State (in residence).

**Public Communication - Minor****College of Communication and Information**

School of Communication Studies

201 Taylor Hall

Kent Campus

330-672-2659

comm@kent.edu

www.kent.edu/comm

**Description**

The Public Communication minor introduces students to theory and practice related to public discourse, persuasive communication, in-depth analysis of media processes, uses and effects. These include the impact of violence and sex in the media, how persuasive messages in the media influence audiences and the impact of the media on the political process.

The minor lends itself to careers in business, media relations, promotion, political consulting, public affairs, social media management, advertising, community outreach, marketing and audience research, among others.

**Fully Offered At:**

- Kent Campus

**Admission Requirements**

Admission to a minor is open to students declared in a bachelor's degree, the A.A.B. or A.A.S. degree or the A.T.S. degree (not Individualized Program major). Students declared only in the A.A. or A.S. degree or the A.T.S. degree in Individualized Program may not declare a minor. Students may not pursue a minor and a major in the same discipline.

To declare the Public Communication minor, students must have a minimum 2.000 overall Kent State University GPA. No Kent State University GPA is required if the student is a first-semester freshman or transfer student admitted in good standing.

**Minor Requirements**

Code	Title	Credit Hours
<b>Minor Requirements</b>		
COMM 15000	INTRODUCTION TO HUMAN COMMUNICATION (KADL)	3
COMM 25902	COMMUNICATION THEORY	3
COMM 26001	PUBLIC COMMUNICATION IN SOCIETY	3
Minor Electives, choose from the following:		9
COMM 41000	SPORTS COMMUNICATION	
COMM 42000	MEDIA, WAR AND PROPAGANDA	
COMM 43000	COMMUNICATION TECHNOLOGY AND HUMAN INTERACTION	
COMM 45006	MEDIA USE AND EFFECTS	
COMM 45007	FREEDOM OF SPEECH	
COMM 45902	COMMUNICATION AND INFLUENCE (WIC)	
Minimum Total Credit Hours:		18

**Graduation Requirements**

Minimum Minor GPA	Minimum Overall GPA
2.250	2.000

- Minimum 6 credit hours in the minor must be upper-division coursework (30000 and 40000 level).
- Minimum 6 credit hours in the minor must be outside of the course requirements for any major or other minor the student is pursuing.
- Minimum 50 percent of the total credit hours for the minor must be taken at Kent State (in residence).

# School of Emerging Media and Technology

## College of Communication and Information

School of Emerging Media and Technology  
314 University Library  
Kent Campus  
330-672-9105  
digital-sciences@kent.edu  
www.kent.edu/dsci

## Academic Advising Offices

Undergraduate Advising and Resources  
236 Mathematics and Computer Science Building  
Kent Campus  
330-672-9069  
DSAdvising@kent.edu  
www.kent.edu/dsci/undergraduate/advising

Graduate Advising and Resources  
236 Mathematics and Computer Science Building  
Kent Campus  
330-672-9069  
DSAdvising@kent.edu  
www.kent.edu/dsci/graduate/advising

Kent State University's School of Emerging Media and Technology is a cutting-edge new interdisciplinary school designed to train tomorrow's digital leaders. Integrating elements of computer science, computer information systems, computer technology, library information science, visual communication design, journalism, communication studies, and instructional technology, it fosters a broad exposure to digital technologies as used by a wide range of professions and organizations.

## Undergraduate Programs

- Digital Sciences - B.A.
- Emerging Media and Technology - B.S.

## Minors

- Web Development

## Graduate Programs

- Digital Sciences - M.D.S.

## Certificates

### GRADUATE CERTIFICATES

- Enterprise Architecture

## Emerging Media and Technology (EMAT)

### EMAT 10010 INTRODUCTION TO EMERGING MEDIA AND TECHNOLOGY 3 Credit Hours

Through this course students will explore the emerging media and technology industries, receive an introduction to basic programming concepts, and develop their own emerging media project plan. Additionally, students will learn about the impact of emerging media and technology on culture and society. Topics include an introduction to ethical technology design, emerging media and globalization, and how technology relates to relationship and identity formation and maintenance.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

### EMAT 10310 MY STORY ON THE WEB 3 Credit Hours

A first course in understanding the web's impact on our private and public lives. Introductory course that enables students to establish a web presence and persona by the end of the semester. Through the storytelling initiative and creating these sites, students investigate web site design, storytelling, multimedia, intellectual property, ethical considerations and social media.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

### EMAT 13210 DESIGN PROCESSES AND PRINCIPLES 3 Credit Hours

Introduction to the discipline of design, including general design models and procedures, rational and creative models of design, and design as problem solving. Specific design contexts are introduced including information design, graphics and visual design, architectural design and educational design.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

### EMAT 15310 CREATIVE CODING 3 Credit Hours

In this course students will be given a hands-on introduction to computational thinking and object-oriented programming through the framework of creative coding. Students will learn how to use variables, loops, functions, classes and API's (Application Programming Interfaces) to make original works of creative code for screen-based media that move, interact and unfold over time. Emphasis will be placed on play and experimentation as critical facets of creative problem solving.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

### EMAT 19995 SPECIAL TOPICS IN EMERGING MEDIA AND TECHNOLOGY 1-4 Credit Hours

(Repeatable for credit) Analysis of significant and current issues in emerging media and technology not covered in regular courses. Offered when opportunities and resources permit; the topic is announced when the course is scheduled.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 1-4 lecture

**Grade Mode:** Standard Letter

**EMAT 22110 DATA IN EMERGING MEDIA AND TECHNOLOGY 3 Credit Hours**

Students will work through all levels of data analysis including accessing data, combining and cleaning datasets, describing data through report-writing and visualization, inferential statistics, and finally making data-based decisions and conveying those decisions to a lay audience. This course uses Python 3 and R to process data and will introduce students to report writing, sharing, and documentation using LaTeX and RMarkdown. The focus of this course is to convey the strengths and limitations of both 'big' and 'small' data with an overarching goal of instilling ethical data practices for research and application.

**Prerequisite:** EMAT 15310.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**EMAT 23410 COGNITION IN TECHNOLOGY 3 Credit Hours**

Introduction to the basics in human cognition as they affect technology and as technology affects human cognition. Addresses designing technologies to fit and enhance cognition, augmenting cognition with technology, and cognitive tools, as well as the impact of technology on various cognitive processes.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**EMAT 26010 TELECOMMUNICATION INFRASTRUCTURE 3 Credit Hours**

Provides an overview of communications infrastructure for public switched telephone networks, wireless networks, and local area networks. Other topics covered include network routing, LAN concepts and technologies, VoIP, and PBX.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**EMAT 29995 SPECIAL TOPICS IN EMERGING MEDIA AND TECHNOLOGY 1-4 Credit Hours**

(Repeatable for credit) Analysis of significant and current issues in emerging media and technology not covered in regular courses. Offered when opportunities and resources permit; the topic is announced when the course is scheduled.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 1-4 lecture

**Grade Mode:** Standard Letter

**EMAT 30410 INFORMATION ETHICS AND SOCIAL RESPONSIBILITY 3 Credit Hours**

Investigates ethical and social responsibility issues related to information technology including the application of ethical theories to information technology; potential tensions between ethical and legal norms as well as those between competing ethical values; professional codes of ethics; access and control of intellectual property; issues of privacy including those raised by the US Patriot Act; network security and user protections (e.g. viruses, protecting minors, cyberbullying); and the digital divide, outsourcing and green computing.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**EMAT 31010 ENTERPRISE ARCHITECTURE 3 Credit Hours**

Enterprise architecture facilitates the alignment of IT and IS investment decisions with business goals. Enterprise architecture is increasingly used in the industry as a result of the continued emergence of new technologies and ongoing pressures to reengineer business processes to achieve improved efficiency and greater customer focus. Enterprise architecture identifies the main components of an organization and the ways in which these components work together. The components include performance and strategy, people, business capabilities, applications, technology, knowledge and information, as well as financial and other resources.

**Prerequisite:** Sophomore standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**EMAT 32110 MODERN WEB APPLICATION DEVELOPMENT 3 Credit Hours**

In this hands-on, project-based course students will be introduced to leading industry tools and frameworks being used to create commercial web applications today, including CSS frameworks, front-end frameworks, and command line tools. Lectures, coding demonstrations, and weekly assignments will culminate in a collaborative final project in which students will be asked to conceptualize, design and implement a web application in a collaborative, team setting.

**Prerequisite:** EMAT 22110 and VCD 21000.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**EMAT 33310 HUMAN-COMPUTER INTERACTION 3 Credit Hours**

A survey course intended to provide a broad foundation of HCI principles, concepts, and techniques. Focuses on understanding HCI through fundamental design concepts and applying these to a range of interface design problems. Covers the spectrum of a user-centered design process (research, sketching, prototyping, evaluation, etc). Balances a broad conceptual understanding of HCI with detailed interface design issues.

**Prerequisite:** Sophomore standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**EMAT 34410 DIGITAL INFORMATION MANAGEMENT AND PROCESSING 3 Credit Hours**

Introduces students to the discipline of information management and processing methods and tools that are available to support effective management of information within organizations. Aims to provide a pragmatic foundation of principles, practices and technologies that can be applied within commercial and government organizations to help improve information management.

**Prerequisite:** Sophomore standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter



**EMAT 35091 SEMINAR IN EMERGING MEDIA AND TECHNOLOGY 3 Credit Hours**

Society is driven, in part, by digital technology. The skills and techniques used in these fast-paced digital systems requires nimble and up-to-date skill sets. This course will cover a rotating list of timely topics including but not limited to mobile applications, content management systems, data visualizations, and cutting edge development frameworks. The student experience will vary based on the topics from the rotation.

**Prerequisite:** EMAT 10010 and EMAT 15310.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**EMAT 39995 SPECIAL TOPICS IN EMERGING MEDIA AND TECHNOLOGY 1-4 Credit Hours**

(Repeatable for credit) Analysis of significant and current issues in emerging media and technology not covered in regular courses. Offered when opportunities and resources permit; the topic is announced when the course is scheduled.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 1-4 lecture

**Grade Mode:** Standard Letter

**EMAT 40999 INTERDISCIPLINARY PROJECTS (ELR) 3 Credit Hours**

(Repeatable for credit) In this hands-on course, students work in collaborative, interdisciplinary teams to complete a technology-based project that provides an innovative solution to a real-world problem. Whenever possible, connections will be made to project-based courses in emerging media and technology and beyond.

**Prerequisite:** Junior standing.

**Schedule Type:** Project or Capstone

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**Attributes:** Experiential Learning Requirement

**EMAT 41510 PROJECT MANAGEMENT AND TEAM DYNAMICS (WIC) 3 Credit Hours**

(Slashed with EMAT 51510) Introduces students to the basic elements of project management as it relates to software development and the corporate environment. Although not formally endorsed by The Project Management Institute, the course aligns with the project management lifecycle approach endorsed in The Project Management Book of Knowledge.

**Prerequisite:** EMAT 15310 or CS 13001 or CS 13012 or CIS 24065; and junior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Writing Intensive Course

**EMAT 41610 DIGITAL SYSTEMS SECURITY 3 Credit Hours**

(Slashed with EMAT 51610) Provides students with an understanding of the techniques, approaches, strategies, and computer security tactics that are used to ensure computer-related assets are protected from potential cyber compromise and are integrated with the business function. This course does not focus on the technical aspects of security (e.g., details of the operating system, data structures, or networks) but instead focuses more on computer security in a business context.

**Prerequisite:** EMAT 15310 or CS 13001 or CS 13012 or CIS 24065; and junior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**EMAT 49991 SEMINAR IN EMERGING TECHNOLOGIES 1-3 Credit Hours**

(Slashed with EMAT 59991) Explores new and emerging technologies, examining each technology from multiple viewpoints representative of the interdisciplinary nature of emerging media and technology.

**Prerequisite:** Junior standing.

**Schedule Type:** Seminar

**Contact Hours:** 1-3 lecture

**Grade Mode:** Standard Letter

**EMAT 49992 INTERNSHIP IN EMERGING MEDIA AND TECHNOLOGY (ELR) 1-6 Credit Hours**

(Repeatable for a maximum of 6 credit hours) A credit-bearing work experience with educational outcomes, utilizing and enhancing a student's academic learning in practical occupational situations. The student is expected to complete pre-determined assignments, which may include a weekly journal, final paper, or experience report.

**Prerequisite:** Junior standing; and special approval.

**Schedule Type:** Practical Experience

**Contact Hours:** 3-18 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**Attributes:** Experiential Learning Requirement

**EMAT 49995 SPECIAL TOPICS IN EMERGING MEDIA AND TECHNOLOGY 1-4 Credit Hours**

(Repeatable for credit) Analysis of significant and current issues in emerging media and technology not covered in regular courses. Offered when opportunities and resources permit; the topic is announced when the course is scheduled.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 1-4 lecture

**Grade Mode:** Standard Letter

**EMAT 49996 INDIVIDUAL INVESTIGATION IN EMERGING MEDIA AND TECHNOLOGY 1-3 Credit Hours**

(Repeatable for a maximum of 6 credit hours) Independent study carried out by a student under the supervision of a faculty member. Subject content, objectives, assignments and evaluation methods may vary.

**Prerequisite:** Junior standing; and special approval.

**Schedule Type:** Individual Investigation

**Contact Hours:** 1-3 other

**Grade Mode:** Standard Letter-IP

**EMAT 51510 PROJECT MANAGEMENT AND TEAM DYNAMICS 3 Credit Hours**

(Slashed with EMAT 41510) This course introduces students to the basic elements of project management as it relates to software development and the corporate environment. Although not formally endorsed by The Project Management Institute ([www.PMI.org](http://www.PMI.org)), the course will align with the project management lifecycle approach endorsed in The Project Management Book of Knowledge.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**EMAT 51610 DIGITAL SYSTEMS SECURITY 3 Credit Hours**

(Slashed with EMAT 41610) Provides students with an advanced understanding of the techniques, approaches, strategies, and computer security tactics that are used to ensure computer-related assets are protected from potential cyber compromise and are integrated with the business function. This course does not focus on the technical aspects of security (e.g., details of the operating system, data structures, or networks) but instead focuses more on computer security in a business context.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**EMAT 59991 SEMINAR IN EMERGING TECHNOLOGIES 1-3 Credit Hours**

(Slashed with EMAT 49991) Explores new and emerging technologies, examining each technology from multiple viewpoints representative of the interdisciplinary nature of the emerging media and technology.

**Prerequisite:** Graduate standing.

**Schedule Type:** Seminar

**Contact Hours:** 1-3 other

**Grade Mode:** Standard Letter

**EMAT 59995 SPECIAL TOPICS IN EMERGING MEDIA AND TECHNOLOGIES 1-3 Credit Hours**

(Repeatable for credit) Analysis of significant and current issues in emerging media and technology not covered in regular courses. Offered when opportunities and resources permit; the topic is announced when the course is scheduled.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 1-3 lecture

**Grade Mode:** Standard Letter

**EMAT 60999 CAPSTONE PROJECT IN EMERGING MEDIA AND TECHNOLOGY 3 Credit Hours**

(Repeatable for credit) Provides an integrative experience, bringing together components of the required coursework in the major and concentration. Students perform individual work on a project, research paper, or practicum under the supervision of faculty from programs affiliated with the School of Emerging Media and Technology. Students must be in their final semester in the master's program to enroll in this course.

**Prerequisite:** Minimum overall GPA of 3.00; and graduate standing; and special approval.

**Schedule Type:** Project or Capstone

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**EMAT 61010 ENTERPRISE ARCHITECTURE 3 Credit Hours**

Explores the alignment of IT and IS investment decisions with business goals. Enterprise architecture is increasingly used in industry as a result of the continued emergence of new technologies and ongoing pressures to reengineer business processes to achieve improved efficiency and greater customer focus. Enterprise architecture identifies the main components of an organization and the ways in which these components work together. The components include performance and strategy, people, business capabilities, applications, technology, knowledge and information, as well as financial and other resources.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**EMAT 61310 ENTERPRISE ARCHITECTURE: ENTERPRISE ARCHITECTURE CENTER OF EXCELLENCE METHODOLOGY 2 Credit Hours**

Provides an introduction to the Enterprise Architecture Center of Excellence (EACOE) methodology for enterprise architecture and practical experience using that methodology. Students learn to model a business' current or desired future state using architectural models of goals, processes, materials, roles, locations and events. Implementation models are then developed to show relationships between architectural models, and the models are analyzed to identify move-ahead initiatives that include projects, gaps, overlaps and opportunities. These initiatives are prioritized to move the business to a desired future state. At the conclusion of the course, students have the option of submitting their course enterprise architecture artifacts to EACOE for certification. Pre/

**Prerequisite:** Graduate standing.

**Corequisite:** EMAT 61010.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**EMAT 61510 PROJECT MANAGEMENT LEADERSHIP 3 Credit Hours**

This course introduces advanced project management and project management leadership as it relates to software development and the corporate environment. The course focuses on the project management principles of effective planning, communication and motivation throughout the project lifecycle, and one key project management deliverable such as the project management plan. Although not formally endorsed by The Project Management Institute ([www.PMI.org](http://www.PMI.org)), the course will align with the project management lifecycle approach endorsed in The Project Management Book of Knowledge.

**Prerequisite:** EMAT 51510; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**EMAT 62010 BUSINESS ARCHITECTURE 3 Credit Hours**

Exploration of the concept of business architecture as the critical component of enterprise architecture. Students learn how to develop an enterprise business architecture, to apply business architecture principles, methods and artifacts to support business IT alignment and to support change management needed to implement roadmaps and initiatives based on the business architecture. Students learn how different enterprise architecture frameworks approach the business layer.

**Prerequisite:** EMAT 61010; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**EMAT 62210 WEB DEVELOPMENT 3 Credit Hours**

Beginning with basic coverage of HTML, CSS, PHP, this course continues to explore those topics along with MySQL, jQuery, JavaScript and others. The course will also explore other topics relevant to web development in digital sciences, including security principles, hierarchy and visual design, responsive design, accessibility issues, interaction design, social media, and legal issues.

**Prerequisite:** CS 61002 or CS 61003 or ENGR 56330; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**EMAT 64010 DATA ARCHITECTURE 3 Credit Hours**

Exploration of data modeling at the conceptual and logical level of abstraction within the context of enterprise architecture. Students learn to identify business needs in terms of data to gain a holistic view of organizational data. Students use Master Data Management (MDM) and approaches to define various data sources.

**Prerequisite:** EMAT 61010; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**EMAT 64210 DATA SCIENCE 3 Credit Hours**

Overview of the concept of data mining, machine learning, big data, and data analytics, including the business challenges of working with data to solve real-world business problems. Students become familiar with the Cross Industry Standard Process for Data Mining (CRISP-DM). Fundamental concepts include Business Problem Understanding, Data Understanding, Data Preparation, Modeling, Evaluation, and Deployment. Data analytics in industry verticals are discussed, including science, intelligence and law enforcement, health, retail and financial services.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**EMAT 65010 APPLICATION AND TECHNOLOGY ARCHITECTURE 3 Credit Hours**

Introduction to the concept of application and technology architectures in the context of enterprise architecture. Students learn how to define application and technology architecture principles and standards to support business performance, and to evaluate existing architectures in relation to performance goals. Students learn to work with application and technology artifacts and matrices, prepare a technology dictionary and develop an application architecture blueprint.

**Prerequisite:** EMAT 61010; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**EMAT 69199 THESIS I 2-6 Credit Hours**

(Repeatable for a maximum of 6 credits hours) Thesis students must register for a total of 6 hours and may take 2 to 6 hours per semester distributed over several semesters if desired.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Masters Thesis

**Contact Hours:** 2-6 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**EMAT 69299 THESIS II 2 Credit Hours**

(Repeatable for credit) Thesis students must continue registration each semester until all degree requirements are met.

**Prerequisite:** EMAT 69199; and graduate standing.

**Schedule Type:** Masters Thesis

**Contact Hours:** 2 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**EMAT 69992 INTERNSHIP IN EMERGING MEDIA AND TECHNOLOGY 1-3 Credit Hours**

(Repeatable for credit) A credit bearing work experience with educational outcomes, utilizing and enhancing a student's academic learning in practical occupational situations. The student is expected to complete pre-determined assignments, which may include a weekly journal, final paper or experience report.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Practical Experience

**Contact Hours:** 3-9 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**EMAT 69995 SPECIAL TOPICS IN EMERGING MEDIA AND TECHNOLOGY 1-4 Credit Hours**

(Repeatable for credit) Analysis of significant and current issues in digital sciences not covered in regular courses. Offered when opportunities and resources permit; the topic is announced when the course is scheduled.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 1-4 lecture

**Grade Mode:** Standard Letter

**EMAT 69996 INDIVIDUAL INVESTIGATION IN EMERGING MEDIA AND TECHNOLOGY 1-3 Credit Hours**

(Repeatable for credit) Independent study carried out by a student under the supervision of a faculty member. Subject content, objectives, assignments, and evaluation methods may vary.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Individual Investigation

**Contact Hours:** 1-3 other

**Grade Mode:** Standard Letter-IP

## Digital Sciences - B.A.

**College of Communication and Information**

School of Emerging Media and Technology

314 University Library

Kent Campus

330-672-9105

emat@kent.edu

www.kent.edu/emat

## Description

**Admission to the Bachelor of Arts degree in Digital Sciences has been temporarily suspended as of spring 2021.**

The Bachelor of Arts degree in Digital Sciences is designed to provide students with the ability to adapt and succeed in a rapidly changing digital world. The program provides a broad overview of digital technologies, often from multiple points of view. For example, a student may study the content and visual layout of a web page with a journalism professor and later study the programming aspects of a web page with a business professor. A course with an architect adds more material on design, and a course with a computer scientist adds additional programming skills. This multidisciplinary skill set adds the flexibility needed for many of today's careers.

Building on this broad overview, the program adds further depth in technical topics, societal issues, and project management. Students gain additional technical competency by studying information management, database systems and digital security. Finally, students learn how to work

on a team by studying requirements engineering, project management and team dynamics.

Programs in the College of Communication and Information are, by nature, innovative, interdisciplinary and collaborative, which is critical to both professional and scholarly disciplines. Students are educated to work at the intersections of communication, information and technology. Through a core of diverse theory- and practice-based courses, students learn basic concepts that apply across the range of college programs and develop a sense of professional expectations and build toward interdisciplinary thinking and application.

#### FULLY OFFERED AT:

- Kent Campus

## Admission Requirements

The university affirmatively strives to provide educational opportunities and access to students with varied backgrounds, those with special talents and adult students who graduated from high school three or more years ago.

**Freshman Students on the Kent Campus:** The freshman admission policy on the Kent Campus is selective. Admission decisions are based upon the following: cumulative grade point average, ACT and/or SAT scores, strength of high school college preparatory curriculum and grade trends. The Admissions Office at the Kent Campus may defer the admission of students who do not meet admissions criteria but who demonstrate areas of promise for successful college study. Deferred applicants may begin their college coursework at one of seven regional campuses of Kent State University. For more information on admissions, including additional requirements for some academic programs, visit the admissions website for new freshmen.

**Freshman Students on the Regional Campuses:** Kent State campuses at Ashtabula, East Liverpool, Geauga, Salem, Stark, Trumbull and Tuscarawas, as well as the Regional Academic Center in Twinsburg, have open enrollment admission for students who hold a high school diploma, GED or equivalent.

**English Language Proficiency Requirements for International Students:** All international students must provide proof of English language proficiency (unless they meet specific exceptions) by earning a minimum 525 TOEFL score (71 on the Internet-based version), minimum 75 MELAB score, minimum 6.0 IELTS score or minimum 48 PTE score, or by completing the ESL level 112 Intensive Program. For more information on international admission, visit the Office of Global Education's admission website.

**Transfer, Transitioning and Former Students:** For more information about admission criteria for transfer, transitioning and former students, please visit the admissions website.

## Program Learning Outcomes

Graduates of this program will be able to:

1. Demonstrate broad interdisciplinary knowledge and understanding of digital sciences across traditional college and professional boundaries. They will be able to work with technical, business, and design professionals, and will be able to integrate material from these various disciplines. They will be able to adapt their thinking based on how different societies, cultures, genders, ethnic groups and professions approach technology and information and use it in different ways.

2. Demonstrate competence with a broad range of digital technologies. In many cases, they will be able to apply multiple approaches to a problem as practiced by different professions. They will demonstrate theoretical and practical understanding of web page design, web programming, computational thinking, database systems, information management, and digital systems security.
3. Apply design thinking to technological problems. They will demonstrate familiarity with design thinking and the relationship between design and technology. They will be able to help web designers and programmers make their technology easier to use.
4. Apply critical evaluation and problem solving skills to organizational needs. They will be able to analyze customer needs, consider the impact on various diverse groups or cultures, evaluate solutions from a variety of technical and design viewpoints, and solve a variety of technical and design problems.
5. Demonstrate effective communication skills, both verbally and in written form. They will be able to communicate as individuals or as part of a project team, and they will be able to communicate with technical, business, and design professionals.
6. Participate in, and lead, multidisciplinary project teams. They will demonstrate theoretical and practical understanding of requirements engineering, project management, and team dynamics. They will demonstrate practical experience working with students from another department on a multidisciplinary project team.

## University Requirements

All students in a bachelor's degree program at Kent State University must complete the following university requirements for graduation.

**NOTE:** University requirements may be fulfilled in this program by specific course requirements. Please see Program Requirements for details.

Destination Kent State: First Year Experience	1
Course is not required for students with 25 transfer credits, excluding College Credit Plus, or age 21+ at time of admission.	
Diversity Domestic/Global (DIVD/DIVG)	2 courses
Students must successfully complete one domestic and one global course, of which one must be from the Kent Core.	
Experiential Learning Requirement (ELR)	varies
Students must successfully complete one course or approved experience.	
Kent Core (see table below)	36-37
Writing-Intensive Course (WIC)	1 course
Students must earn a minimum C grade in the course.	
Upper-Division Requirement	39 (or 42)
Students must successfully complete 39 upper-division (numbered 30000 to 49999) credit hours to graduate. Students in a B.A. and/or B.S. degree in the College of Arts and Sciences must complete 42 upper-division credit hours.	
Total Credit Hour Requirement	120
Some bachelor's degrees require students to complete more than 120 credit hours.	

## Kent Core Requirements

Kent Core Composition (KCMP)	6
Kent Core Mathematics and Critical Reasoning (KMCR)	3
Kent Core Humanities and Fine Arts (KHUM/KFA) (min one course each)	9
Kent Core Social Sciences (KSS) (must be from two disciplines)	6

Kent Core Basic Sciences (KBS/KLAB) (must include one laboratory)	6-7
Kent Core Additional (KADL)	6
<b>Total Credit Hours:</b>	<b>36-37</b>

## Program Requirements

### Major Requirements

Code	Title	Credit Hours
<b>Major Requirements (courses count in major GPA)</b>		
CIS 24053	INTRODUCTION TO COMPUTER APPLICATIONS	3
CIS 24065	WEB PROGRAMMING	3
CIS 44043	DATA MANAGEMENT AND BUSINESS INTELLIGENCE I	3
EMAT 13210	DESIGN PROCESSES AND PRINCIPLES	3
EMAT 15310	CREATIVE CODING	3
EMAT 34410	DIGITAL INFORMATION MANAGEMENT AND PROCESSING	3
EMAT 41510	PROJECT MANAGEMENT AND TEAM DYNAMICS (WIC)	3
EMAT 41610	DIGITAL SYSTEMS SECURITY	3
ENGR 46411	REQUIREMENTS ENGINEERING AND ANALYSIS	3
<b>Additional Requirements (courses do not count in major GPA)</b>		
UC 10097	DESTINATION KENT STATE: FIRST YEAR EXPERIENCE	1
College of Communication and Information Core Electives, choose from the following:		9
CCI 12001	PHOTOGRAPHY	
COMM 15000	INTRODUCTION TO HUMAN COMMUNICATION (KADL)	
COMM 35852	INTERCULTURAL COMMUNICATION (DIVG)	
JMC 20001	MEDIA, POWER AND CULTURE (DIVD) (KSS)	
JMC 21008	SOCIAL MEDIA STRATEGIES	
LIS 30010	INFORMATION FLUENCY IN THE WORKPLACE AND BEYOND	
UXD 20001	INTRODUCTION TO USER EXPERIENCE DESIGN	
VCD 13000	DESIGN: PRINCIPLES, PROCESSES AND PRACTICE	
Kent Core Composition		6
Kent Core Mathematics and Critical Reasoning		3
Kent Core Humanities and Fine Arts (minimum one course from each)		9
Kent Core Social Sciences (courses from two curricular areas)		6
Kent Core Basic Sciences (must include one laboratory)		6-7
Kent Core Additional		6
General Electives (total credit hours depends on earning 120 credit hours, including 39 upper-division credit hours) <sup>2</sup>		47
Minimum Total Credit Hours:		120

<sup>1</sup> Minimum C grade required in EMAT 41510 to fulfill the writing-intensive requirement.

<sup>2</sup> The following courses are recommended electives to fulfill the Experiential Learning Requirement: EMAT 40999 or EMAT 49992.

### Graduation Requirements

Minimum Major GPA	Minimum Overall GPA
2.250	2.000

## Roadmap

This roadmap is a recommended semester-by-semester plan of study for this major. However, courses designated as critical (!) must be completed in the semester listed to ensure a timely graduation.

Semester One		Credits
UC 10097	DESTINATION KENT STATE: FIRST YEAR EXPERIENCE	1
College of Communication and Information Core Electives		3
Kent Core Requirement		3
Kent Core Requirement		3
Kent Core Requirement		3
General Electives		3
Credit Hours		16
Semester Two		
CIS 24053	INTRODUCTION TO COMPUTER APPLICATIONS	3
EMAT 13210	DESIGN PROCESSES AND PRINCIPLES	3
College of Communication and Information Core Electives		3
Kent Core Requirement		3
Kent Core Requirement		3
Credit Hours		15
Semester Three		
CIS 24065	WEB PROGRAMMING	3
College of Communication and Information Core Electives		3
Kent Core Requirement		3
Kent Core Requirement		3
Kent Core Requirement		3
Credit Hours		15
Semester Four		
EMAT 15310	CREATIVE CODING	3
EMAT 34410	DIGITAL INFORMATION MANAGEMENT AND PROCESSING	3
Kent Core Requirement		3
Kent Core Requirement		3
General Electives		3
Credit Hours		15
Semester Five		
CIS 44043	DATA MANAGEMENT AND BUSINESS INTELLIGENCE I	3
Kent Core Requirement		3
General Electives		9
Credit Hours		15
Semester Six		
EMAT 41510	PROJECT MANAGEMENT AND TEAM DYNAMICS (WIC)	3
Kent Core Requirement		3
General Electives		9
Credit Hours		15
Semester Seven		
ENGR 46411	REQUIREMENTS ENGINEERING AND ANALYSIS	3
General Electives		12
Credit Hours		15
Semester Eight		
EMAT 41610	DIGITAL SYSTEMS SECURITY	3



General Electives	11
Credit Hours	14
Minimum Total Credit Hours:	120

## Digital Sciences - M.D.S.

### College of Communication and Information

School of Emerging Media and Technology

314 University Library

Kent Campus

330-672-9105

emat@kent.edu

www.kent.edu/emat

## Description

**Admission to the Master of Digital Sciences degree in Digital Sciences has been temporarily suspended as of spring 2021.**

The Master of Digital Sciences degree in Digital Sciences is designed to augment a student's skill set, opening the door to new career opportunities for students from diverse undergraduate backgrounds. Due to the program's interdisciplinary nature, students have a unique opportunity to gain a graduate-level introduction to several areas aligned with digital sciences.

The Digital Sciences major comprises the following concentrations:

- The **Data Science** concentration focuses on the data analysis and modeling needed by an organization and the processing of structured, semi-structured and unstructured data using statistical and semantic analysis techniques to meet those needs.
- The **Digital Systems Management** concentration focuses on the technical leadership needed by an organization and the management of information services in a rapidly changing global economy.
- The **Digital Systems Software Development** concentration focuses on the software applications needed by an organization and the design and maintenance of software systems that are aligned with the goals of the business.
- The **Digital Systems Telecommunication Networks** concentration focuses on the communication infrastructure needed by an organization and the design and management of a telecommunication system and computer network to meet those needs.
- The **Digital Systems Training Technology** concentration focuses on the educational applications needed by an organization and the design and management of instructional systems to meet those needs.
- The **Enterprise Architecture** concentration focuses on the business goals, processes and technology infrastructure needed by an organization and the alignment of the processes and infrastructure with the goals of the business.

### Fully Offered At:

- Online (Data Science, Digital Systems Training Technology, Enterprise Architecture concentrations only)
- Kent Campus

## Admission Requirements

- Bachelor's degree from an accredited college or university for unconditional admission
- Minimum 3.000 undergraduate GPA on a 4.000 point scale<sup>1</sup> for unconditional admission
- Official transcript(s)
- GRE scores<sup>2</sup>
- Résumé
- Goal statement<sup>3</sup>
- Three letters of recommendation
- English language proficiency - all international students must provide proof of English language proficiency (unless they meet specific exceptions) by earning one of the following:
  - Minimum 550 TOEFL PBT score (paper-based version)
  - Minimum 79 TOEFL IBT score (Internet-based version)
  - Minimum 77 MELAB score
  - Minimum 6.5 IELTS score
  - Minimum 58 PTE score
  - Minimum 110 Duolingo English Test score

For more information about graduate admissions, please visit the Graduate Studies website. For more information on international admission, visit the Office of Global Education website.

- <sup>1</sup> Applicants with a lower GPA will be considered for conditional admission.
- <sup>2</sup> GRE scores will be one of the factors considered in the admission process. A GRE composite score of 290 and above is preferred. The GRE may be waived if the applicant has earned a master's or higher degrees from an accredited U.S. institution or has three or more years of relevant, full-time work experience.
- <sup>3</sup> The goal statement should explain applicants' goals and objectives for pursuing this advanced degree. For example, applicants may want to better prepare for a particular career, to update knowledge in a specific area or to add expertise that will make them more valuable in a current career. In addition, applicants may submit a statement of plans for electives, which should explain how they plan to choose the digital sciences-related electives to complement their declared concentration and their undergraduate major. Applicants should explain how the electives will help to meet the goals and objectives listed in their goal statement.

## Program Learning Outcomes

Graduates of this program will be able to:

1. Augment their professional preparation with material from areas of digital sciences outside their former college and professional boundaries.
2. Demonstrate increased breadth in digital sciences outside their former college and professional boundaries.
3. Demonstrate basic familiarity with enterprise architecture, data science, software development, telecommunication networks, globalization and technology strategy and/or instructional design.
4. Demonstrate increased depth in one area of digital sciences.

## Program Requirements

### MAJOR REQUIREMENTS

Code	Title	Credit Hours
<b>Major Requirements</b>		
Major Electives, choose from the following:		9-10
CS 61002	ALGORITHMS AND PROGRAMMING I	
EMAT 61010	ENTERPRISE ARCHITECTURE	
EMAT 64210	DATA SCIENCE	
ENGR 56350	NETWORK MANAGEMENT AND DESIGN TECHNOLOGY	
ETEC 57403	INSTRUCTIONAL DESIGN	
MIS 64050	ESSENTIALS OF BUSINESS MGMT	
Culminating Requirement, choose from the following: <sup>1</sup>		6
EMAT 60999	CAPSTONE PROJECT IN EMERGING MEDIA AND TECHNOLOGY	
EMAT 69199	THESIS I	
Approved Electives, choose from the following: <sup>2</sup>		6-8
COMM 65661	COMMUNICATION IN AN INFORMATION SOCIETY	
COMM 65675	COMMUNICATION, UNCERTAINTY AND PRIVACY MANAGEMENT	
COMM 65685	COMMUNICATION AND COGNITION	
COMM 65851	ORGANIZATIONAL COMMUNICATION	
CS 53203	SYSTEMS PROGRAMMING <sup>3</sup>	
CS 53401	SECURE PROGRAMMING <sup>3</sup>	
CS 56101	DESIGN AND ANALYSIS OF ALGORITHMS <sup>3</sup>	
CS 57205	INFORMATION SECURITY <sup>3</sup>	
CS 57221	INTRODUCTION TO CRYPTOLOGY <sup>3</sup>	
CS 61002	ALGORITHMS AND PROGRAMMING I	
CS 61003	ALGORITHMS AND PROGRAMMING II	
CS 63005	ADVANCED DATABASE SYSTEMS DESIGN <sup>3</sup>	
CS 63201	ADVANCED OPERATING SYSTEMS <sup>3</sup>	
CS 63301	PARALLEL AND DISTRIBUTED COMPUTING <sup>3</sup>	
CS 63304	CLUSTER COMPUTING <sup>3</sup>	
CS 63901	SOFTWARE ENGINEERING METHODOLOGIES	
CS 64201	ADVANCED ARTIFICIAL INTELLIGENCE <sup>3</sup>	
CS 64401	IMAGE PROCESSING <sup>3</sup>	
CS 67101	ADVANCED COMPUTER GRAPHICS <sup>3</sup>	
CS 67301	SCIENTIFIC VISUALIZATION <sup>3</sup>	
EMAT 51510	PROJECT MANAGEMENT AND TEAM DYNAMICS	
EMAT 51610	DIGITAL SYSTEMS SECURITY	
EMAT 59991	SEMINAR IN EMERGING TECHNOLOGIES	
EMAT 59995	SPECIAL TOPICS IN EMERGING MEDIA AND TECHNOLOGIES	
EMAT 60999	CAPSTONE PROJECT IN EMERGING MEDIA AND TECHNOLOGY	
EMAT 61010	ENTERPRISE ARCHITECTURE	
EMAT 61310	ENTERPRISE ARCHITECTURE: ENTERPRISE ARCHITECTURE CENTER OF EXCELLENCE METHODOLOGY	
EMAT 61310	ENTERPRISE ARCHITECTURE: ENTERPRISE ARCHITECTURE CENTER OF EXCELLENCE METHODOLOGY	
EMAT 61510	PROJECT MANAGEMENT LEADERSHIP	
EMAT 62010	BUSINESS ARCHITECTURE	
EMAT 62210	WEB DEVELOPMENT	

EMAT 64010	DATA ARCHITECTURE
EMAT 64210	DATA SCIENCE
EMAT 65010	APPLICATION AND TECHNOLOGY ARCHITECTURE
EMAT 69992	INTERNSHIP IN EMERGING MEDIA AND TECHNOLOGY <sup>4</sup>
EMAT 69995	SPECIAL TOPICS IN EMERGING MEDIA AND TECHNOLOGY
EMAT 69996	INDIVIDUAL INVESTIGATION IN EMERGING MEDIA AND TECHNOLOGY
EVAL 65510	STATISTICS I FOR EDUCATIONAL SERVICES
GEOG 59070	GEOGRAPHIC INFORMATION SCIENCE
GEOG 59076	SPATIAL PROGRAMMING
GEOG 59080	ADVANCED GEOGRAPHIC INFORMATION SCIENCE
GEOG 59085	WEB AND MOBILE GEOGRAPHIC INFORMATION SCIENCE
GEOG 59162	CARTOGRAPHY
GEOG 69007	SPATIOTEMPORAL ANALYTICS
GEOG 69082	CYBERGIS
GEOG 69083	GEODATABASES
HI 60401	HEALTH INFORMATICS MANAGEMENT
HI 60402	LEGAL ISSUES IN HEALTH INFORMATICS
HI 60403	HEALTH INFORMATION SYSTEMS
HI 60410	HEALTH RECORDS MANAGEMENT
HI 60411	CLINICAL ANALYTICS
HI 60412	CLINICAL DECISION SUPPORT
ENGR 53222	COMPUTER HARDWARE ENGINEERING AND ARCHITECTURE
ENGR 56330	VISUAL BASIC PROGRAMMING IN ENGINEERING TECHNOLOGY
ENGR 56350	NETWORK MANAGEMENT AND DESIGN TECHNOLOGY
ENGR 56411	REQUIREMENTS ENGINEERING AND ANALYSIS TECHNOLOGY
ENGR 63010	COMPUTER HARDWARE
ENGR 63020	FIBER OPTIC SYSTEMS
ENGR 63031	PROGRAMMABLE LOGIC CONTROLLERS
ENGR 63031	PROGRAMMABLE LOGIC CONTROLLERS
ENGR 63032	ADVANCED PROGRAMMABLE LOGIC CONTROLLERS
ENGR 63050	TRIZ: THEORY OF INVENTIVE PROBLEM-SOLVING
ENGR 64312	ADVANCED WIRELESS TELECOMMUNICATION SYSTEM AND NETWORK TECHNOLOGIES
ENGR 65330	ADVANCED VISUAL BASIC PROGRAMMING IN ENGINEERING TECHNOLOGY
ENGR 66380	ADVANCED NETWORKING
ETEC 57427	TECHNOLOGY AND LEARNING
ETEC 57403	INSTRUCTIONAL DESIGN
ETEC 67410	SIMULATIONS AND GAMES IN EDUCATION
ETEC 67425	MANAGING TECHNOLOGICAL CHANGE
ETEC 67432	DESIGNING MULTIMEDIA FOR EDUCATION
ETEC 67435	VIRTUAL AND AUGMENTED REALITY
ETEC 67442	DESIGNING ONLINE AND BLENDED COURSES
ETEC 67444	TEACHING ONLINE AND BLENDED COURSES
ETEC 67449	RESEARCH IN ONLINE AND BLENDED LEARNING

KM 60301	FOUNDATIONAL PRINCIPLES OF KNOWLEDGE MANAGEMENT
KM 60305	COMMUNITIES OF PRACTICE
KM 60311	BUSINESS PROCESS MANAGEMENT
KM 60312	BUSINESS INTELLIGENCE-COMPETITIVE INTELLIGENCE
KM 60315	FOUNDATIONS OF DOCUMENT MANAGEMENT
KM 60316	ORGANIZATIONAL CULTURE ASSESSMENT
KM 60370	SEMANTIC ANALYSIS METHODS AND TECHNOLOGIES
LIS 60613	INFORMATION NEEDS, SEEKING AND USE
LIS 60636	KNOWLEDGE ORGANIZATION STRUCTURES, SYSTEMS AND SERVICES
LIS 60637	METADATA ARCHITECTURE AND IMPLEMENTATION
LIS 60638	DIGITAL LIBRARIES
LIS 60645	DATABASE DESIGN AND APPLICATIONS
MIS 64042	GLOBALIZATION AND TECHNOLOGY STRATEGY
MIS 64050	ESSENTIALS OF BUSINESS MGMT
MIS 64080	EMERGING HARDWARE AND SOFTWARE TECHNOLOGIES
MIS 64081	DATA COMMUNICATIONS AND NETWORKING IN BUSINESS
MIS 64082	DATABASE MANAGEMENT AND DATABASE ANALYTICS
MIS 64083	INFORMATION SECURITY: A MANAGERIAL PERSPECTIVE
MIS 64158	LEADERSHIP AND MANAGERIAL ASSESSMENT
VCD 55000	GRAPHIC DESIGN PERSPECTIVES
VCD 60121	USER EXPERIENCE DESIGN IN PRACTICE
UXD 60001	USER EXPERIENCE DESIGN PRINCIPLES AND CONCEPTS
UXD 60002	USER EXPERIENCE DESIGN IN PRACTICE
UXD 60101	INFORMATION ARCHITECTURE I
UXD 60103	RESEARCHING THE USER EXPERIENCE I
UXD 60104	USABILITY I
UXD 60113	RESEARCHING USER EXPERIENCE II
UXD 60114	USABILITY II
<b>Concentrations</b>	
Choose from the following:	9-10
Data Science	
Digital Systems Management	
Digital Systems Software Development	
Digital Systems Telecommunication Networks	
Digital Systems Training Technology	
Enterprise Architecture	
Minimum Total Credit Hours:	32

<sup>1</sup> Whether selecting the capstone project or thesis, students must complete minimum 6 credit hours. Students selecting the capstone project must select additional Digital Sciences electives to fulfill the 6 credit hours.

<sup>2</sup> Requests for consideration of other courses as approved electives should be submitted to the student's advisor in the School of Digital Sciences.

<sup>3</sup> This course is recommended only for students from a computer science background.

<sup>4</sup> No more than 3 credit hours of EMAT 69992 may be applied toward approved electives in the M.D.S. degree.

## Data Science Concentration Requirements

Code	Title	Credit Hours
<b>Concentration Requirements</b>		
EMAT 64010	DATA ARCHITECTURE	3
KM 60370	SEMANTIC ANALYSIS METHODS AND TECHNOLOGIES	3
LIS 60636	KNOWLEDGE ORGANIZATION STRUCTURES, SYSTEMS AND SERVICES	3
Minimum Total Credit Hours:		9

## Digital Systems Management Concentration Requirements

Code	Title	Credit Hours
<b>Concentration Requirements</b>		
EMAT 51510	PROJECT MANAGEMENT AND TEAM DYNAMICS	3
or EMAT 51610	DIGITAL SYSTEMS SECURITY	
or MIS 64083	INFORMATION SECURITY: A MANAGERIAL PERSPECTIVE	
MIS 64042	GLOBALIZATION AND TECHNOLOGY STRATEGY	2
MIS 64080	EMERGING HARDWARE AND SOFTWARE TECHNOLOGIES	3
MIS 64158	LEADERSHIP AND MANAGERIAL ASSESSMENT	2
Minimum Total Credit Hours:		10

## Digital Systems Software Development Concentration Requirements

Code	Title	Credit Hours
<b>Concentration Requirements</b>		
CS 61003	ALGORITHMS AND PROGRAMMING II <sup>1</sup>	4
CS 63901	SOFTWARE ENGINEERING METHODOLOGIES <sup>2</sup>	3
or EMAT 51510	PROJECT MANAGEMENT AND TEAM DYNAMICS	
or MIS 64082	DATABASE MANAGEMENT AND DATABASE ANALYTICS	
EMAT 65010	APPLICATION AND TECHNOLOGY ARCHITECTURE	3
Minimum Total Credit Hours:		10

<sup>1</sup> CS 61003 May be replaced by another Computer Science (CS) course on the Approved Elective list for students with an undergraduate degree in computer science.

<sup>2</sup> CS 63901 or EMAT 51510 is recommended for students from a computer science background. MIS 64082 is recommended for students from a non-computer science background.

## Digital Systems Telecommunication Networks Concentration Requirements

Code	Title	Credit Hours
<b>Concentration Requirements</b>		
ENGR 56411	REQUIREMENTS ENGINEERING AND ANALYSIS TECHNOLOGY	3
ENGR 64312	ADVANCED WIRELESS TELECOMMUNICATION SYSTEM AND NETWORK TECHNOLOGIES	3

ENGR 66380	ADVANCED NETWORKING	3
Minimum Total Credit Hours:		9

## Digital Systems Training Technology Concentration Requirements

Code	Title	Credit Hours
<b>Concentration Requirements</b>		
ETEC 67410	SIMULATIONS AND GAMES IN EDUCATION	3
or ETEC 67435	VIRTUAL AND AUGMENTED REALITY	
ETEC 67425	MANAGING TECHNOLOGICAL CHANGE	3
ETEC 67432	DESIGNING MULTIMEDIA FOR EDUCATION	3
Minimum Total Credit Hours:		9

## Enterprise Architecture Concentration Requirements

Code	Title	Credit Hours
<b>Concentration Requirements</b>		
EMAT 62010	BUSINESS ARCHITECTURE	3
EMAT 64010	DATA ARCHITECTURE	3
EMAT 65010	APPLICATION AND TECHNOLOGY ARCHITECTURE	3
Minimum Total Credit Hours:		9

## GRADUATION REQUIREMENTS

No more than 18 credits may be taken from any one subject area other than Digital Sciences to apply toward the M.D.S. degree.

## Emerging Media and Technology - B.S.

**College of Communication and Information**  
 School of Emerging Media and Technology  
 314 University Library  
 Kent Campus  
 330-672-9105  
 emat@kent.edu  
 www.kent.edu/emat

## Description

The Bachelor of Science degree in Emerging Media and Technology offers students the space to play, imagine and solve problems. The degree program draws on a number of disciplines, including emerging media, design, information sciences, human-computer interaction and communication. The technology curriculum is grounded in social science and the humanities, introducing students to theories of how technology shapes and changes people and societies. Students learn technical applications and skills in problem solving, design, user experience, creative applications and programming. Students synthesize technical and organizational skills in a series of experiential, hands-on and project-based courses in which they work collaboratively in interdisciplinary teams.

## Fully Offered At:

- Kent Campus

## Admission Requirements

The university affirmatively strives to provide educational opportunities and access to students with varied backgrounds, those with special talents and adult students who graduated from high school three or more years ago.

**Freshman Students on the Kent Campus:** The freshman admission policy on the Kent Campus is selective. Admission decisions are based upon the following: cumulative grade point average, ACT and/or SAT scores, strength of high school college preparatory curriculum and grade trends. The Admissions Office at the Kent Campus may defer the admission of students who do not meet admissions criteria but who demonstrate areas of promise for successful college study. Deferred applicants may begin their college coursework at one of seven regional campuses of Kent State University. For more information on admissions, including additional requirements for some academic programs, visit the admissions website for new freshmen.

**Freshman Students on the Regional Campuses:** Kent State campuses at Ashtabula, East Liverpool, Geauga, Salem, Stark, Trumbull and Tuscarawas, as well as the Regional Academic Center in Twinsburg, have open enrollment admission for students who hold a high school diploma, GED or equivalent.

**English Language Proficiency Requirements for International Students:** All international students must provide proof of English language proficiency (unless they meet specific exceptions) by earning a minimum 525 TOEFL score (71 on the Internet-based version), minimum 75 MELAB score, minimum 6.0 IELTS score or minimum 48 PTE score, or by completing the ESL level 112 Intensive Program. For more information on international admission, visit the Office of Global Education's admission website.

**Transfer, Transitioning and Former Students:** For more information about admission criteria for transfer, transitioning and former students, please visit the admissions website.

## Program Learning Outcomes

Graduates of this program will be able to:

1. Demonstrate competency in the technical skills needed to pursue jobs in emerging media and technology, which includes web development, coding, data, human-computer interaction, creative applications, programming and problem-solving.
2. Utilize emerging media technologies to design better experiences, improve existing systems and analyze digital social structures.
3. Recognize the rapidly changing nature of emerging media and technology and learn the skills needed to adapt.
4. Apply interdisciplinary solutions to solving technical, social and human problems related to emerging media and technology.
5. Employ teamwork and project management as a problem solving technique.
6. Critically analyze the effectiveness of their own work and the work of others.

## University Requirements

All students in a bachelor's degree program at Kent State University must complete the following university requirements for graduation.

**NOTE:** University requirements may be fulfilled in this program by specific course requirements. Please see Program Requirements for details.

Destination Kent State: First Year Experience	1
Course is not required for students with 25 transfer credits, excluding College Credit Plus, or age 21+ at time of admission.	
Diversity Domestic/Global (DIVD/DIVG)	2 courses
Students must successfully complete one domestic and one global course, of which one must be from the Kent Core.	
Experiential Learning Requirement (ELR)	varies
Students must successfully complete one course or approved experience.	
Kent Core (see table below)	36-37
Writing-Intensive Course (WIC)	1 course
Students must earn a minimum C grade in the course.	
Upper-Division Requirement	39 (or 42)
Students must successfully complete 39 upper-division (numbered 30000 to 49999) credit hours to graduate. Students in a B.A. and/or B.S. degree in the College of Arts and Sciences must complete 42 upper-division credit hours.	
Total Credit Hour Requirement	120
Some bachelor's degrees require students to complete more than 120 credit hours.	

## Kent Core Requirements

Kent Core Composition (KCOMP)	6
Kent Core Mathematics and Critical Reasoning (KMCR)	3
Kent Core Humanities and Fine Arts (KHUM/KFA) (min one course each)	9
Kent Core Social Sciences (KSS) (must be from two disciplines)	6
Kent Core Basic Sciences (KBS/KLAB) (must include one laboratory)	6-7
Kent Core Additional (KADL)	6
<b>Total Credit Hours:</b>	<b>36-37</b>

## Program Requirements

### Major Requirements

Code	Title	Credit Hours
<b>Major Requirements (courses count in major GPA)</b>		
DI 20100	INTRODUCTION TO DESIGN INNOVATION	3
or VCD 13000	DESIGN: PRINCIPLES, PROCESSES AND PRACTICE	
EMAT 10010	INTRODUCTION TO EMERGING MEDIA AND TECHNOLOGY	3
EMAT 10310	MY STORY ON THE WEB	3
EMAT 15310	CREATIVE CODING	3
EMAT 22110	DATA IN EMERGING MEDIA AND TECHNOLOGY	3
EMAT 33310	HUMAN-COMPUTER INTERACTION	3
EMAT 35091	SEMINAR IN EMERGING MEDIA AND TECHNOLOGY	3
EMAT 40999	INTERDISCIPLINARY PROJECTS (ELR)	3
EMAT 41510	PROJECT MANAGEMENT AND TEAM DYNAMICS (WIC) <sup>1</sup>	3
EMAT 49992	INTERNSHIP IN EMERGING MEDIA AND TECHNOLOGY (ELR)	1-6
VCD 21000	INTRODUCTION TO WEB DESIGN	3
<b>Additional Requirements (courses do not count in major GPA)</b>		

UC 10097	DESTINATION KENT STATE: FIRST YEAR EXPERIENCE	1
College of Communication and Information Core Electives, choose from the following:		9
CCI 12001	PHOTOGRAPHY	
COMM 15000	INTRODUCTION TO HUMAN COMMUNICATION (KADL)	
COMM 35852	INTERCULTURAL COMMUNICATION (DIVG)	
JMC 20001	MEDIA, POWER AND CULTURE (DIVD) (KSS)	
JMC 21008	SOCIAL MEDIA STRATEGIES	
LIS 30010	INFORMATION FLUENCY IN THE WORKPLACE AND BEYOND	
UXD 20001	INTRODUCTION TO USER EXPERIENCE DESIGN	
Kent Core Composition		6
Kent Core Mathematics and Critical Reasoning		3
Kent Core Humanities and Fine Arts (minimum one course from each)		9
Kent Core Social Sciences (must be from different categories)		6
Kent Core Basic Sciences (must include one laboratory)		6-7
Kent Core Additional		6
Minor Requirements and General Electives (total credit hours depends on earning 120 credit hours, including 39 upper-division credit hours) <sup>2</sup>		43
<b>Minimum Total Credit Hours:</b>		<b>120</b>

<sup>1</sup> Minimum C grade is required to fulfill the writing-intensive requirement.

<sup>2</sup> Students must declare a minor, either from the following list or another relevant minor with faculty approval. With approval by the faculty advisor, students may use a block of courses to fulfill this requirement:

- Computer Engineering Technology
- Computer Forensics and Security
- Computer Information Systems
- Computer Science
- Design
- Digital Media Production
- Game Design
- Management for Non-Business Majors
- Modeling and Animation
- Organizational Communication
- User Experience Design
- Web Development

## Graduation Requirements

Minimum Major GPA	Minimum Overall GPA
2.250	2.000

## Roadmap

This roadmap is a recommended semester-by-semester plan of study for this major. However, courses designated as critical (!) must be completed in the semester listed to ensure a timely graduation.

Semester One	Credits
EMAT 10010 INTRODUCTION TO EMERGING MEDIA AND TECHNOLOGY	3
EMAT 15310 CREATIVE CODING	3
UC 10097 DESTINATION KENT STATE: FIRST YEAR EXPERIENCE	1
Kent Core Requirement	3
Kent Core Requirement	3



Kent Core Requirement		3
Credit Hours		16
<b>Semester Two</b>		
EMAT 22110	DATA IN EMERGING MEDIA AND TECHNOLOGY	3
DI 20100	INTRODUCTION TO DESIGN INNOVATION	3
or	or DESIGN: PRINCIPLES, PROCESSES AND PRACTICE	
VCD 13000		
College of Communication and Information Core Elective		3
Kent Core Requirement		3
Kent Core Requirement		3
Credit Hours		15
<b>Semester Three</b>		
EMAT 10310	MY STORY ON THE WEB	3
VCD 21000	INTRODUCTION TO WEB DESIGN	3
Kent Core Requirement		3
Kent Core Requirement		3
Minor Requirement or General Elective		3
Credit Hours		15
<b>Semester Four</b>		
College of Communication and Information Core Elective		3
Kent Core Requirement		3
Kent Core Requirement		3
Kent Core Requirement		3
Minor Requirement or General Elective		3
Credit Hours		15
<b>Semester Five</b>		
EMAT 33310	HUMAN-COMPUTER INTERACTION	3
Kent Core Requirement		3
Kent Core Requirement		3
Minor Requirement or General Elective		6
Credit Hours		15
<b>Semester Six</b>		
College of Communication and Information Core Requirement		3
EMAT 41510	PROJECT MANAGEMENT AND TEAM DYNAMICS (WIC)	3
Minor Requirements and/or General Electives		9
Credit Hours		15
<b>Semester Seven</b>		
EMAT 49992	INTERNSHIP IN EMERGING MEDIA AND TECHNOLOGY (ELR)	1
Minor Requirements and/or General Electives		14
Credit Hours		15
<b>Semester Eight</b>		
EMAT 35091	SEMINAR IN EMERGING MEDIA AND TECHNOLOGY	3
EMAT 40999	INTERDISCIPLINARY PROJECTS (ELR)	3
Minor Requirements and/or General Electives		8
Credit Hours		14
Minimum Total Credit Hours:		120

## Enterprise Architecture - Graduate Certificate

College of Communication and Information  
School of Emerging Media and Technology  
314 University Library  
Kent Campus

330-672-9105  
dsci@kent.edu  
www.kent.edu/dsci

### Description

The Enterprise Architecture graduate certificate is focuses on assisting organizations to review and improve their investments in technology and to ensure that their digital information, applications and technology are fully aligned with business goals and objectives. Graduates will know how to develop detailed blueprints of an organization's current state, work with the stakeholders to prepare a vision of a future architecture, prepare an implementation roadmap and execute technology and business change.

This certificate can assist graduates to prepare for a career as a computer system architect, enterprise architect, information architect or solution architect.

### Fully Offered At:

- Kent Campus

## Program Requirements

### CERTIFICATE REQUIREMENTS

Code	Title	Credit Hours
<b>Certificate Requirements</b>		
EMAT 61010	ENTERPRISE ARCHITECTURE	3
EMAT 62010	BUSINESS ARCHITECTURE	3
EMAT 64010	DATA ARCHITECTURE	3
EMAT 65010	APPLICATION AND TECHNOLOGY ARCHITECTURE	3
Certificate Electives, choose from the following: <sup>1</sup>		
COMM 65661	COMMUNICATION IN AN INFORMATION SOCIETY	
COMM 65675	COMMUNICATION, UNCERTAINTY AND PRIVACY MANAGEMENT	
COMM 65685	COMMUNICATION AND COGNITION	
COMM 65851	ORGANIZATIONAL COMMUNICATION	
CS 53203	SYSTEMS PROGRAMMING <sup>2</sup>	
CS 53401	SECURE PROGRAMMING <sup>2</sup>	
CS 56101	DESIGN AND ANALYSIS OF ALGORITHMS <sup>2</sup>	
CS 57205	INFORMATION SECURITY <sup>2</sup>	
CS 57221	INTRODUCTION TO CRYPTOLOGY <sup>2</sup>	
CS 61002	ALGORITHMS AND PROGRAMMING I	
CS 61003	ALGORITHMS AND PROGRAMMING II	
CS 63005	ADVANCED DATABASE SYSTEMS DESIGN <sup>2</sup>	
CS 63201	ADVANCED OPERATING SYSTEMS <sup>2</sup>	
CS 63301	PARALLEL AND DISTRIBUTED COMPUTING <sup>2</sup>	
CS 63304	CLUSTER COMPUTING <sup>2</sup>	
CS 63901	SOFTWARE ENGINEERING METHODOLOGIES	
CS 64201	ADVANCED ARTIFICIAL INTELLIGENCE <sup>2</sup>	
CS 64401	IMAGE PROCESSING <sup>2</sup>	
CS 67101	ADVANCED COMPUTER GRAPHICS <sup>2</sup>	
CS 67301	SCIENTIFIC VISUALIZATION <sup>2</sup>	
EMAT 51510	PROJECT MANAGEMENT AND TEAM DYNAMICS	
EMAT 51610	DIGITAL SYSTEMS SECURITY	

EMAT 59991	SEMINAR IN EMERGING TECHNOLOGIES	GEOG 69082	CYBERGIS
EMAT 59995	SPECIAL TOPICS IN EMERGING MEDIA AND TECHNOLOGIES	GEOG 69083	GEODATABASES
EMAT 60999	CAPSTONE PROJECT IN EMERGING MEDIA AND TECHNOLOGY	HI 60401	HEALTH INFORMATICS MANAGEMENT
EMAT 61010	ENTERPRISE ARCHITECTURE	HI 60402	LEGAL ISSUES IN HEALTH INFORMATICS
EMAT 61310	ENTERPRISE ARCHITECTURE: ENTERPRISE ARCHITECTURE CENTER OF EXCELLENCE METHODOLOGY	HI 60403	HEALTH INFORMATION SYSTEMS
EMAT 61510	PROJECT MANAGEMENT LEADERSHIP	HI 60410	HEALTH RECORDS MANAGEMENT
EMAT 62010	BUSINESS ARCHITECTURE	HI 60411	CLINICAL ANALYTICS
EMAT 64010	DATA ARCHITECTURE	HI 60412	CLINICAL DECISION SUPPORT
EMAT 64210	DATA SCIENCE	KM 60301	FOUNDATIONAL PRINCIPLES OF KNOWLEDGE MANAGEMENT
EMAT 65010	APPLICATION AND TECHNOLOGY ARCHITECTURE	KM 60305	COMMUNITIES OF PRACTICE
EMAT 69992	INTERNSHIP IN EMERGING MEDIA AND TECHNOLOGY <sup>3</sup>	KM 60311	BUSINESS PROCESS MANAGEMENT
EMAT 69995	SPECIAL TOPICS IN EMERGING MEDIA AND TECHNOLOGY	KM 60312	BUSINESS INTELLIGENCE-COMPETITIVE INTELLIGENCE
EMAT 69996	INDIVIDUAL INVESTIGATION IN EMERGING MEDIA AND TECHNOLOGY	KM 60315	FOUNDATIONS OF DOCUMENT MANAGEMENT
ENGR 53222	COMPUTER HARDWARE ENGINEERING AND ARCHITECTURE	KM 60316	ORGANIZATIONAL CULTURE ASSESSMENT
ENGR 56330	VISUAL BASIC PROGRAMMING IN ENGINEERING TECHNOLOGY	KM 60370	SEMANTIC ANALYSIS METHODS AND TECHNOLOGIES
ENGR 56350	NETWORK MANAGEMENT AND DESIGN TECHNOLOGY	LIS 60613	INFORMATION NEEDS, SEEKING AND USE
ENGR 56411	REQUIREMENTS ENGINEERING AND ANALYSIS TECHNOLOGY	LIS 60636	KNOWLEDGE ORGANIZATION STRUCTURES, SYSTEMS AND SERVICES
ENGR 63010	COMPUTER HARDWARE	LIS 60637	METADATA ARCHITECTURE AND IMPLEMENTATION
ENGR 63020	FIBER OPTIC SYSTEMS	LIS 60638	DIGITAL LIBRARIES
ENGR 63031	PROGRAMMABLE LOGIC CONTROLLERS	LIS 60645	DATABASE DESIGN AND APPLICATIONS
ENGR 63032	ADVANCED PROGRAMMABLE LOGIC CONTROLLERS	MIS 64042	GLOBALIZATION AND TECHNOLOGY STRATEGY
ENGR 63050	TRIZ: THEORY OF INVENTIVE PROBLEM-SOLVING	MIS 64080	EMERGING HARDWARE AND SOFTWARE TECHNOLOGIES
ENGR 64312	ADVANCED WIRELESS TELECOMMUNICATION SYSTEM AND NETWORK TECHNOLOGIES	MIS 64081	DATA COMMUNICATIONS AND NETWORKING IN BUSINESS
ENGR 65330	ADVANCED VISUAL BASIC PROGRAMMING IN ENGINEERING TECHNOLOGY	MIS 64082	DATABASE MANAGEMENT AND DATABASE ANALYTICS
ENGR 66380	ADVANCED NETWORKING	MIS 64083	INFORMATION SECURITY: A MANAGERIAL PERSPECTIVE
EVAL 65510	STATISTICS I FOR EDUCATIONAL SERVICES	MIS 64158	LEADERSHIP AND MANAGERIAL ASSESSMENT
ETEC 57403	INSTRUCTIONAL DESIGN	VCD 55000	GRAPHIC DESIGN PERSPECTIVES
ETEC 57427	TECHNOLOGY AND LEARNING	VCD 60121	USER EXPERIENCE DESIGN IN PRACTICE
ETEC 67410	SIMULATIONS AND GAMES IN EDUCATION	UXD 60001	USER EXPERIENCE DESIGN PRINCIPLES AND CONCEPTS
ETEC 67425	MANAGING TECHNOLOGICAL CHANGE	UXD 60002	USER EXPERIENCE DESIGN IN PRACTICE
ETEC 67432	DESIGNING MULTIMEDIA FOR EDUCATION	UXD 60101	INFORMATION ARCHITECTURE I
ETEC 67435	VIRTUAL AND AUGMENTED REALITY	UXD 60103	RESEARCHING THE USER EXPERIENCE I
ETEC 67442	DESIGNING ONLINE AND BLENDED COURSES	UXD 60104	USABILITY I
ETEC 67444	TEACHING ONLINE AND BLENDED COURSES	UXD 60113	RESEARCHING USER EXPERIENCE II
ETEC 67449	RESEARCH IN ONLINE AND BLENDED LEARNING	UXD 60114	USABILITY II
GEOG 59070	GEOGRAPHIC INFORMATION SCIENCE	Approved Related Area Courses	
GEOG 59076	SPATIAL PROGRAMMING	Minimum Total Credit Hours: 18	
GEOG 59080	ADVANCED GEOGRAPHIC INFORMATION SCIENCE	1 Electives are intended to be courses in digital sciences or a related program that complement the enterprise architecture coursework and add depth in an area of interest to the student. For example, a student who feels weak in business processes may choose electives on business strategy or leadership and organizational change. A student who wants further depth related to data architecture may choose electives in information architecture or data mining.	
GEOG 59085	WEB AND MOBILE GEOGRAPHIC INFORMATION SCIENCE	2 These computer science courses are recommended only for students with a computer science background.	
GEOG 59162	CARTOGRAPHY		
GEOG 69007	SPATIOTEMPORAL ANALYTICS		

- <sup>3</sup> Maximum 3 credit hours of EMAT 69992 may be applied toward approved electives in the Enterprise Architecture certificate.

## Graduation Requirements

Minimum Certificate GPA	Minimum Overall GPA
3.000	

## Web Development - Minor

### College of Communication and Information

School of Emerging Media and Technology

314 University Library

Kent Campus

330-672-9105

emat@kent.edu

www.kent.edu/emat

## Description

The Web Development minor allows students to develop the fundamental skills needed to pursue jobs in web development, web programming, web design and related fields. Students learn technical applications and skills in problem solving, design, user experience, creative applications, and programming. Students have the opportunity to use new and emerging technologies to design engaging multimedia experiences, improve existing systems, and study digital social structures. They will also gain experience working in diverse teams and communicating goals, needs, and processes to peers, clients, and consumers.

Web developers are software engineers who understand not only the full technological 'stack' that powers modern websites, but who are also conversant in and able to make connections between the design, content and business aspects of web development. Web developers work with content providers, visual designers, and user experience designers. They are coders who use languages such as HTML, CSS, Python, MySQL, PHP as well as frameworks used in web development such as Ruby or React. Web developers are also familiar with Content Management Systems, used to ensure that content and services can be delivered to end users.

### Fully Offered At:

- Kent Campus

## Admission Requirements

Admission to a minor is open to students declared in a bachelor's degree, the A.A.B. or A.A.S. degree or the A.T.S. degree (not Individualized Program major). Students declared only in the A.A. or A.S. degree or the A.T.S. degree in Individualized Program may not declare a minor. Students may not pursue a minor and a major in the same discipline.

## Program Learning Outcomes

Graduates of this program will be able to:

1. Demonstrate competency in the fundamental skills needed to pursue jobs in web development, web programming, web design and related fields.
2. Recognize the rapidly changing nature of web development technology and learn the skills needed to adapt.

3. Assess the societal and individual impact of new/emerging web and mobile technologies.
4. Employ teamwork as a means of solving technical problems related to web development.

## Minor Requirements

Code	Title	Credit Hours
<b>Minor Requirements</b>		
CCI 46001	RESPONSIVE WEB DESIGN	3
or EMAT 40999	INTERDISCIPLINARY PROJECTS (ELR)	
EMAT 15310	CREATIVE CODING	3
EMAT 22110	DATA IN EMERGING MEDIA AND TECHNOLOGY	3
EMAT 32110	MODERN WEB APPLICATION DEVELOPMENT	3
UXD 20001	INTRODUCTION TO USER EXPERIENCE DESIGN	3
VCD 21000	INTRODUCTION TO WEB DESIGN	3
Minimum Total Credit Hours:		18

## Graduation Requirement

Minimum Minor GPA	Minimum Overall GPA
2.000	2.000

- Minimum 6 credit hours in the minor must be upper-division coursework (30000 and 40000 level).
- Minimum 6 credit hours in the minor must be outside of the course requirements for any major or other minor the student is pursuing.
- Minimum 50 percent of the total credit hours for the minor must be taken at Kent State (in residence).

## School of Information

### College of Communication and Information

School of Information

314 University Library

Kent Campus

330-672-2782

iSchool@kent.edu

www.kent.edu/iSchool

## Minor

- User Experience Design - Minor

## Graduate Programs

- Health Informatics - M.S.
- Knowledge Management - M.S.
- Library and Information Science - M.L.I.S.
- School Library Media K-12 - M.L.I.S.
- School Library Media Licensure (Non-Degree)
- User Experience Design - M.S.

## Certificates

- Health Informatics - Graduate Certificate
- Web-Enabled E-Learning Knowledge Management - Graduate Certificate

## School of Information Faculty

- Albright, Kendra S. , Professor & School Director
- Boon, Belinda (2006), Associate Professor, Ph.D., University of Texas, Austin, 2006
- Campana, Kathleen (2017), Assistant Professor, Ph.D., University of Washington, 2018
- Gracy, Karen (2007), Associate Professor, Ph.D., University of California, Los Angeles, 2001
- Hajibayova, Lala (2014), Assistant Professor, Ph.D., Indiana University, Bloomington, 2014
- Harper, Sarah M. (2001), Professor, Ph.D., Kent State University, 2003
- Hegmann, Elda (2011), Assistant Professor, Ph.D., Laval University, 2003
- Hudak, Christine A. (2012), Professor, Ph.D., Cleveland State University, 1998
- Jakli, Antal I. (1989), Professor, Ph.D., University of Budapest, 1986
- Martens, Marianne (2012), Associate Professor, Ph.D., Rutgers, The State University of New Jersey, 2012
- Matteson, Miriam L. (2012), Associate Professor & Director, Ph.D., University of Maryland, 2009
- Meehan, Rebecca A. (2012), Associate Professor, Ph.D., Case Western Reserve University, 1997
- Nichols, Mary A. (1996), Senior Lecturer, M.L.S., Kent State University, 1993
- Robins, David B. (2004), Associate Professor, Ph.D., University of North Texas, 1998
- Salaba, Athena (1993), Professor, Ph.D., University of Wisconsin, Madison, 2005
- Sherman, Paul J. (2013), Assistant Professor, Ph.D., University of Texas at Austin, 1997
- Smith, Catherine L. (2010), Associate Professor, Ph.D., Rutgers, The State University of New Jersey, 2010
- Soyka, Heather (2017), Assistant Professor
- Zeng, Marcia L. (1992), Professor, Ph.D., University of Pittsburgh, 1992
- Zhang, Yin (1999), Professor, Ph.D., University of Illinois, Chicago, 1999

## Health Informatics (HI)

### HI 41095 SPECIAL TOPICS IN HEALTH INFORMATICS 1-3 Credit Hours

(Repeatable for credit) Topics could include current or emerging issues in health informatics. Topics will be announced in schedule of classes. Offered irregularly as resources and opportunities permit.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 1-3 lecture

**Grade Mode:** Standard Letter

### HI 41096 INDIVIDUAL INVESTIGATION IN HEALTH INFORMATICS

#### 1-3 Credit Hours

(Repeatable for credit) Research or individual investigation in areas not covered in the existing curriculum for baccalaureate level students at or above the junior level. In-progress (IP) mark permissible.

**Prerequisite:** Special approval.

**Schedule Type:** Individual Investigation

**Contact Hours:** 3-9 other

**Grade Mode:** Standard Letter-IP

### HI 60401 HEALTH INFORMATICS MANAGEMENT 3 Credit Hours

Covers the areas encompassing health informatics management including the planning, selection, deployment, and management of electronic medical records (EMR), management decision-support and tracking systems (DSS), and other health information technologies (HIT).

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

### HI 60402 LEGAL ISSUES IN HEALTH INFORMATICS 3 Credit Hours

(Slashed with HI 80402) Introduction to the fundamentals of law for Health Informatics and Information Management. Elements of the course include general legal principles and healthcare; legal electronic medical records (EMR); Health Insurance Portability and Accountability Act (HIPAA) privacy rules and security rules; access, requests and disclosure of health information; required reporting and mandatory disclosure laws; risk management and quality improvement; compliance; workforce overview; related ethics and social issues.

**Prerequisite:** Graduate standing.

**Pre/corequisite:** HI 60401.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

### HI 60403 HEALTH INFORMATION SYSTEMS 3 Credit Hours

(Slashed with HI 80403) Introduction to information systems and their applications in healthcare used for managerial and clinical support. Study the fundamentals of information systems, including Electronic Medical Records (EMR), information security. Understand the role of standardized codes, vocabularies and terminologies used in health information systems. Analysis of management and enterprise systems, identify the key elements to manage information resources effectively and the trends affecting the development of health information systems and networks.

**Prerequisite:** Graduate standing.

**Pre/corequisite:** HI 60401.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

### HI 60410 HEALTH RECORDS MANAGEMENT 3 Credit Hours

(Slashed with HI 80410) Conceptual foundations and practicum for health records management, including the planning, implementation and operation of electronic medical records (EMR); the management of EMR in management and enterprise systems; identifying, selecting, and evaluating EMR and health information systems, applications, and repositories; and issues of data quality, integrity, migration, and interoperability.

**Prerequisite:** Graduate standing.

**Pre/corequisite:** HI 60401.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HI 60411 CLINICAL ANALYTICS 3 Credit Hours**

(Slashed with HI 80411) The use of well-defined and well-integrated clinical analytics throughout the healthcare value chain can be transformative. Through careful implementation of health analytics, hospitals can transform unwieldy amalgamations of data into information that can: improve patient outcomes, increase safety, enhance operational efficiency and support public health. Given the immense size of the data challenge, the distinctness and geographic spread of many healthcare-related activities, and the fact that so many healthcare activities are conducted by different entities which must interact with each other, there is really no other way to provide operations management tools necessary to deliver personalized medicine and to control spiraling costs. Since clinical analytics is an immature discipline, we carefully examine the practices of those institutions who are standard setters in the industry.

**Prerequisite:** Graduate standing.

**Pre/corequisite:** HI 60401.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HI 60412 CLINICAL DECISION SUPPORT 3 Credit Hours**

Provides a practical survey of clinical decision support systems that collect clinical data and enable the transition to clinical knowledge in real world applications intended to improve quality and safety of patient care. Students become familiar with the basic requirements for clinical decision support systems and the challenges associated with the development and deployment of new applications within the healthcare setting.

**Prerequisite:** HI 60401; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HI 60413 CHANGE MANAGEMENT IN HEALTH INFORMATICS 3 Credit Hours**

(Slashed with HI 80413) Designed to cover the process of change management in large healthcare organizations in light of current trends. Topics related to technology requirements, technology implementations, risk assessment and buy-in are among those covered.

**Prerequisite:** HI 60401; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HI 60414 HUMAN FACTORS AND USABILITY IN HEALTH INFORMATICS 3 Credit Hours**

(Slashed with HI 80414) Provides students with the foundational principles of usability and human factors as applied to safety and quality in health informatics technology. Course readings and materials review the concepts of human factors, usability and the cognitive consequences of health information technology on clinical performance and decision making. Attention is given to the role of mobile computing in health care, as well as information visualization.

**Prerequisite:** Graduate standing.

**Pre/corequisite:** HI 60401.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HI 60415 HEALTH INFORMATICS INQUIRY AND ASSESSMENT 3 Credit Hours**

(Slashed with HI 80415) Provides a foundation for understanding research in health informatics with a focus on user and experience design research. Through lectures, readings, discussions and assignments, students review user research methods, data collection techniques and communication strategies within the healthcare context. Students then apply this knowledge to creating a research plan for assessing health information technology and communicating results to key organizational stakeholders.

**Prerequisite:** HI 60401 with a minimum C grade; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HI 60416 HEALTH INFORMATICS ISSUES: POLICY, POLITICS AND ETHICS 3 Credit Hours**

This course uses a policy analysis lens to critically examine issues related to the use of information technology in healthcare from an ethical, political and regulatory perspective. The primary focus will be on the United States, but international approaches will also be discussed. Legislation affecting Health Information Technology area will be examined including the American Reinvestment and Recovery Act, HITECH section; Affordable Care Act and Health Insurance Portability and Accountability Act (HIPAA) of 1996. Topics and issues related to Health Informatics including structure of health administrative and delivery systems, assessment of population health, models of health care delivery, access and quality of care will also be discussed.

**Prerequisite:** HI 60401; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HI 60417 PUBLIC HEALTH INFORMATICS 3 Credit Hours**

Public Health Informatics (PHI) is an emergent, interdisciplinary field that focuses on the systematic management and dynamic application of information resources to enhance public health practice, education and research. As an emerging subset of Health Informatics, PHI is practiced by individuals, governmental and nongovernmental organizations at the international, national, regional, state and local levels. PHI deals with the collection and analysis of vital statistics data through surveillance; information creation; information storage and retrieval; visualization and graphics; dissemination; use of information for policy, decision making and trend tracking. The purpose of this course is to provide students with an introductory overview of the vast and dynamic field of PHI, including definitions, approaches, competencies, applications and informatics principles applied in public health settings.

**Prerequisite:** HI 60401 or HI 80401; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter



**HI 60418 CLINICAL ANALYTICS II 3 Credit Hours**

As the volume and complexity of health data continues to grow, analysis of that data requires more advanced tools to transform that data into meaningful information for clinical decisions. Not only is data from electronic medical records (EMRs) growing at a rapid pace but new types of data are available for analysis, such as, genomic data and patient generated data. These advanced analytic tools break down into three areas, each of which will be examined in this course: new data warehousing techniques to manage big data, new analytic tools including cognitive computing and predictive analytics and new ways to visualize the data. All of these techniques transform the raw data into use cases, such as, population health, precision medicine and clinical decision support using artificial intelligence and machine learning which will also be addressed in this course.

**Prerequisite:** HI 60411; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HI 60636 STANDARDIZED TERMINOLOGIES IN HEALTHCARE 3 Credit Hours**

Introduce various types of standardized healthcare terminologies (controlled vocabularies) used in the Electronic Health Records (EHR) and Health Information Exchange (HIE). Present the benefits of using standardized terminologies, as well as the interoperability and Meaningful Use (MU) requirements and standards. Explain the purposes, structures, components, and application of the most widely implemented standardized terminologies such as ICD, CPT, SNOMED CT, LOINC, RxNorm, ICNP, and UMLS.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HI 60691 SEMINAR IN HEALTH INFORMATICS 1-3 Credit Hours**

(Repeatable for credit). Advanced research by students who are qualified to examine problems of certain special areas related to concentrations of study in health informatics.

**Prerequisite:** Graduate standing.

**Schedule Type:** Seminar

**Contact Hours:** 1-3 other

**Grade Mode:** Standard Letter

**HI 60693 VARIABLE TITLE WORKSHOP IN HEALTH INFORMATICS 1-3 Credit Hours**

(Repeatable for credit). Intensive examination of special topics of interest to those involved in health informatics program. Maximum workshop credit for the health informatics program is 4 credit hours.

**Prerequisite:** Graduate standing.

**Schedule Type:** Workshop

**Contact Hours:** 1-3 other

**Grade Mode:** Satisfactory/Unsatisfactory

**HI 60792 ELECTIVE INTERNSHIP IN HEALTH INFORMATICS 2-3 Credit Hours**

Supervised work experience in health informatics of a professional nature of not less than 100 clock hours (for 2 credit hours) or 150 clock hours (for 3 credit hours) with directed preparation of a reflection paper.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Practical Experience

**Contact Hours:** 2-3 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**HI 61095 SPECIAL TOPICS IN HEALTH INFORMATICS 1-3 Credit Hours**

(Repeatable for credit) Offered irregularly as resources and or opportunities permit. Topics could include current or emerging issues in health informatics. Specific topics are announced in the Schedule of Classes.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 1-3 lecture

**Grade Mode:** Standard Letter

**HI 61096 INDIVIDUAL INVESTIGATION IN HEALTH INFORMATICS 1-3 Credit Hours**

(Repeatable for credit) Research or individual investigation in areas not covered by the existing curriculum for master's level students. Maximum 6 credit hours towards the health informatics major within the Master of Science degree.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Individual Investigation

**Contact Hours:** 3-9 other

**Grade Mode:** Standard Letter-IP

**HI 66092 MASTER'S INTERNSHIP IN HEALTH INFORMATICS 3 Credit Hours**

Supervised work experience of an advanced professional nature that concentrates on developing skills in areas of health informatics and integrates their knowledge from all HI courses and experiences. Students must have completed a minimum of 30 credit hours towards the health informatics major within the master of science degree.

**Prerequisite:** HI 60401, HI 60402, HI 60403, HI 60410, HI 60411, KM 60301 and LIS 60636; and minimum 3.000 overall GPA; and special approval.

**Schedule Type:** Practical Experience

**Contact Hours:** 10 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**HI 66098 MASTER'S PROJECT IN HEALTH INFORMATICS 3 Credit Hours**

Provides a means for the application of the knowledge, research and competencies learned through study in health informatics to the development of an information system, product, setting or service. Students must have completed a minimum 30 credit hours towards the MS-HI program prior to registration.

**Prerequisite:** HI 60401, HI 60402, HI 60403, HI 60410, HI 60411, KM 60301 and LIS 60636; and minimum overall 3.000 GPA; and special approval.

**Schedule Type:** Master's Project

**Contact Hours:** 3 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**HI 66198 MASTER'S RESEARCH PAPER IN HEALTH INFORMATICS 3 Credit Hours**

Under the advisement of a faculty member, students will complete a research paper that serves as a culminating experience for the M.S.-HI degree. Cumulative GPA of 3.000 is required prior to enrolling in the course. Students must have completed a minimum of 30 credit hours the MS-HI program prior to registration.

**Prerequisite:** HI 60401, HI 60402, HI 60403, HI 60410, HI 60411, KM 60301 and LIS 60636; and minimum 3.000 overall GPA; and graduate standing; and special approval.

**Schedule Type:** Master's Project

**Contact Hours:** 3 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**HI 66199 THESIS I 2-6 Credit Hours**

Thesis students must register for a total of 6 hours, 2 to 6 hours in a single semester distributed over several semesters if desired. Students must have completed a minimum 30 credit hours towards the MS-HI program prior to registration.

**Prerequisite:** HI 60401, HI 60402, HI 60403, HI 60410, HI 60411, KM 60301 and LIS 60636; and minimum 3.000 overall GPA; and graduate standing; and special approval.

**Schedule Type:** Masters Thesis

**Contact Hours:** 2-6 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**HI 66299 THESIS II 2 Credit Hours**

Thesis students must continue registration each semester until all degree requirements are met.

**Prerequisite:** HI 66199; and graduate standing; and special approval.

**Schedule Type:** Masters Thesis

**Contact Hours:** 2 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**HI 80401 HEALTH INFORMATICS MANAGEMENT 3 Credit Hours**

Covers the areas encompassing Health informatics management including the planning, selection, deployment, and management of electronic medical records (EMR), management decision-support and tracking systems (DSS), and other health information technologies (HIT).

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HI 80402 LEGAL ISSUES IN HEALTH INFORMATICS 3 Credit Hours**

(Slashed with HI 60402) Introduction to the fundamentals of law for Health Informatics and Information Management. Elements of the course include general legal principles and healthcare; legal electronic medical records (EMR); Health Insurance Portability and Accountability Act (HIPAA) privacy rules and security rules; access, requests and disclosure of health information; required reporting and mandatory disclosure laws; risk management and quality improvement; compliance; workforce overview; related ethics and social issues.

**Prerequisite:** HI 80401; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HI 80403 HEALTH INFORMATION SYSTEMS 3 Credit Hours**

(Slashed with HI 60403) Introduction to information systems and their applications in healthcare used for managerial and clinical support. Study the fundamentals of information systems, including Electronic Medical Records (EMR), information security. Understand the role of standardized codes, vocabularies and terminologies used in health information systems. Analysis of management and enterprise systems, identify the key elements to manage information resources effectively and the trends affecting the development of health information systems and networks.

**Prerequisite:** HI 80401; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HI 80410 HEALTH RECORDS MANAGEMENT 3 Credit Hours**

(Slashed with HI 60410) Conceptual foundations and practicum for health records management, including the planning, implementation and operation of electronic medical records (EMR); the management of EMR in management and enterprise systems; identifying, selecting and evaluating EMR and health information systems, applications, and repositories; and issues of data quality, integrity, migration, and interoperability.

**Prerequisite:** HI 80401; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HI 80411 CLINICAL ANALYTICS 3 Credit Hours**

(Slashed with HI 60411) The use of well-defined and well integrated clinical analytics throughout the healthcare value chain can be transformative. Through careful implementation of health analytics, hospitals can transform unwieldy amalgamations of data into information that can: Improve patient outcomes, increase safety, enhance operational efficiency and support public health. Given the immense size of the data challenge, the distinctness and geographic spread of many healthcare-related activities, and the fact that so many healthcare activities are conducted by different entities which must interact with each other, there is really no other way to provide operations management tools necessary to deliver personalized medicine and to control spiraling costs. Since clinical analytics is an immature discipline, we carefully examine the practices of those institutions who are standard setters in the industry.

**Prerequisite:** HI 80401; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HI 80412 CLINICAL DECISION SUPPORT 3 Credit Hours**

(Slashed with HI 60412) Provides a practical survey of clinical decision support systems that collect clinical data and enable the transition to clinical knowledge in real world applications intended to improve quality and safety of patient care. Students become familiar with the basic requirements for clinical decision support systems and the challenges associated with the development and deployment of new applications within the healthcare setting.

**Prerequisite:** HI 80401; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HI 80413 CHANGE MANAGEMENT IN HEALTH INFORMATICS 3 Credit Hours**

(Slashed with HI 60413) Designed to cover the process of change management in large healthcare organizations in light of current trends. Topics related to technology requirements, technology implementations, risk assessment, end user computing and buy-in are among those covered.

**Prerequisite:** HI 80401 with a minimum C grade; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HI 80414 HUMAN FACTORS AND USABILITY IN HEALTH INFORMATICS 3 Credit Hours**

(Slashed with HI 60414) Provides students with the foundational principles of usability and human factors as applied to safety and quality in health informatics technology. Course readings and materials review the concepts of human factors, usability, and the cognitive consequences of health information technology on clinical performance and decision making. Attention is given to the role of mobile computing in health care, as well as information visualization.

**Prerequisite:** HI 80401 with a minimum grade of C; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HI 80415 HEALTH INFORMATICS INQUIRY AND ASSESSMENT 3 Credit Hours**

(Slashed with HI 60415) This course will provide a foundation for understanding research in health informatics with a focus on user and experience design research. Through course lectures, readings, discussions and assignments, students will review user research methods, data collection techniques and communication strategies within the healthcare context. Students will then apply this knowledge to creating a research plan for assessing health information technology and communicating results to key organizational stakeholders.

**Prerequisite:** HI 80401 with a minimum C grade; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HI 80417 PUBLIC HEALTH INFORMATICS 3 Credit Hours**

Public Health Informatics (PHI) is an emergent, interdisciplinary field that focuses on the systematic management and dynamic application of information resources to enhance public health practice, education and research. As an emerging subset of Health Informatics, PHI is practiced by individuals, governmental and nongovernmental organizations at the international, national, regional, state and local levels. PHI deals with the collection and analysis of vital statistics data through surveillance; information creation; information storage and retrieval; visualization and graphics; dissemination; use of information for policy, decision making and trend tracking. The purpose of this course is to provide students with an introductory overview of the vast and dynamic field of PHI, including definitions, approaches, competencies, applications and informatics principles applied in public health settings.

**Prerequisite:** HI 60401 or HI 80401; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HI 80691 SEMINAR IN HEALTH INFORMATICS 1-3 Credit Hours**

(Repeatable for credit) Advanced research by students who are qualified to examine problems of certain special areas related to concentrations of study in health informatics.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Seminar

**Contact Hours:** 1-3 other

**Grade Mode:** Standard Letter

**HI 81095 SPECIAL TOPICS IN HEALTH INFORMATICS 1-3 Credit Hours**

(Repeatable for credit) Offered irregularly as resources and or opportunities permit. Topics could include current or emerging issues in health informatics. Specific topics are announced in the Schedule of Classes.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 1-3 lecture

**Grade Mode:** Standard Letter

**HI 81096 INDIVIDUAL INVESTIGATION IN HEALTH INFORMATICS 1-3 Credit Hours**

Research or individual investigation for doctoral level students.

**Prerequisite:** Doctoral standing; and special approval.

**Schedule Type:** Individual Investigation

**Contact Hours:** 3-9 other

**Grade Mode:** Standard Letter-IP

## Knowledge Management (KM)

**KM 41095 SPECIAL TOPICS IN KNOWLEDGE MANAGEMENT 1-3 Credit Hours**

(Repeatable for credit) Topics could include current or emerging issues in knowledge management. Topics will be announced in schedule of classes. Offered irregularly as resources and opportunities permit.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 1-3 lecture

**Grade Mode:** Standard Letter

**KM 41096 INDIVIDUAL INVESTIGATION IN KNOWLEDGE MANAGEMENT 1-3 Credit Hours**

(Repeatable for credit) Research or individual investigation in areas not covered in the existing curriculum for baccalaureate level students at or above the junior level.

**Prerequisite:** Special approval.

**Schedule Type:** Individual Investigation

**Contact Hours:** 3-9 other

**Grade Mode:** Standard Letter-IP

**KM 60301 FOUNDATIONAL PRINCIPLES OF KNOWLEDGE MANAGEMENT 3 Credit Hours**

(Slashed with KM 80301) This course covers an introduction to: historical roots for knowledge and knowledge management; theories/definitions of knowledge; theories, applications tools and practices of KM; Knowledge Management Life-Cycle Framework and Models; significant issues in KM-- best practices, culture, economics, strategy, intellectual capital, sustainable innovation.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**KM 60303 KNOWLEDGE ASSESSMENT AND EVALUATION 3 Credit Hours**

(Slashed with KM 80303) Explores all aspects of effective knowledge management within all types of organizations. Lays out the context for knowledge management – at each multiple levels (strategic, technical, business-aligned, and individual) and across all competencies. Covers theory, practice and methods of assessment and evaluation for all levels and all competencies. Provides an introduction to knowledge strategy formulation and planning, knowledge management maturity modeling, knowledge typologies and audits, knowledge mapping, organizational network analysis, knowledge competency mapping and human capital analytics, strategic workforce planning concepts, internal knowledge markets and incentives, community of practice metrics, organizational culture metrics.

**Prerequisite:** KM 60301; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**KM 60304 THE INFORMATION AND KNOWLEDGE ECONOMY 3 Credit Hours**

Covers theories of information and knowledge economy. The focus of the course is on information and the new information and digital economy, consumer behavior and production theory; the demand for information; information as a factor of production; information costs and pricing. Case studies in the information industry are explored.

**Prerequisite:** Graduate standing.

**Pre/corequisite:** KM 60301.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**KM 60305 COMMUNITIES OF PRACTICE 3 Credit Hours**

(Slashed with KM 80305) Explores collaboration and communities from both a theoretical and a practical perspective. The theory includes structural elements (defining a community identity, scoping the domain, defining practice), and natural lifecycles, and best practices for cultivating communities. On the practical side, students explore strategic placement of communities, the community development process, community design and implementation, and measuring the impacts of communities on intellectual capital creation. Communities of practice are also discussed in the context of digital ecosystems (Web 2.0 and Web 3.0). Utilizes readings and reviews of real life case studies of communities of practice in education, health care and nursing, disaster management, military sciences, and hobbies and craft circles. Students also complete a course project pertaining to community of practice evaluation.

**Prerequisite:** KM 60301; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**KM 60307 ORGANIZATIONAL LEARNING 3 Credit Hours**

Addresses organizational learning in fast-paced, complex and changing organizational environments. For knowledge organizations in the 21st century, learning is a continuous activity. To survive and grow, a knowledge organization must learn through its people, its groups and the organization as a whole. The capacity to learn is a competitive advantage for a knowledge organization. Covers the fundamental theory of organizational learning, organizational learning types, and the five disciplines of learning organizations, and factors that facilitate or impede organizational learning.

**Prerequisite:** KM 60301; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**KM 60310 INTELLECTUAL CAPITAL MANAGEMENT 3 Credit Hours**

This course encompasses the new knowledge-intensive economic units: human capital and social capital intellectual assets, intellectual property, brands and trademarks. A 'lifecycle' approach for intellectual assets is described– creation, codification, valuation, protection and leveraging of intellectual assets for competitive advantage.

**Prerequisite:** KM 60301 with a minimum C grade; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**KM 60311 BUSINESS PROCESS MANAGEMENT 3 Credit Hours**

(Slashed with KM 80311) Introduction to business process management and workflow management. BPM will describe how organizational business processes (internal, external, manual and automated) can be transformed and managed to increase efficiency, effectiveness and positively affect performance. Topics include the discovery, analysis, modeling and automation of workflow processes.

**Prerequisite:** KM 60301 with a minimum C grade; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**KM 60312 BUSINESS INTELLIGENCE-COMPETITIVE INTELLIGENCE 3 Credit Hours**

An introduction to strategic intelligence consisting of competitive and business intelligence. Strategic intelligence is an art, science and craft. Businesses and governments require effective intelligence programs, processes and tools to track businesses competitors, markets and trends by acquiring, creating, managing and disseminating intelligence knowledge.

**Prerequisite:** KM 60301 with a minimum C grade; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**KM 60315 FOUNDATIONS OF DOCUMENT MANAGEMENT 3 Credit Hours**

Covers three main themes: Principles, which covers the document and records management conceptual framework, relationships with information policy, definitions and industry standards; Practices, which covers the management and procedural framework for effective planning and implementation of document and records management solutions; Technologies, which provides a business-oriented analysis of the nature of the enabling information systems available to support effective document and records management solutions.

**Prerequisite:** Graduate standing.

**Pre/corequisite:** KM 60301.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**KM 60316 ORGANIZATIONAL CULTURE ASSESSMENT 3 Credit Hours**

Examines different types of cultures and how each type influences a knowledge organization - how culture influences the way knowledge workers work, how they make decisions and how they behave, the internal cultures of groups and communities, the cultural attributes of knowledge workers which may impact their knowledge behaviors. Organizational cultures of multicultural, global and virtual organizations are covered. Students conduct an organizational culture assessment.

**Prerequisite:** Graduate standing.

**Pre/corequisite:** KM 60301.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**KM 60340 BUSINESS NARRATIVE AND STORYTELLING 3 Credit Hours**

(Slashed with KM 80340) Focuses on the business use of storytelling and narrative intelligence. Narrative intelligence is the ability to make sense of the world through narrative and storytelling. Business narrative helps a knowledge organization to strengthen its organizational visions, to enhance communications, to capture and transfer knowledge, externalize and internalize tacit knowledge, encourage innovation, build communities, and develop effective training, mentoring and learning strategies. Business narrative is the primary way that procedural knowledge is understood and shared. Covers oral and written stories, documentaries, oral histories, organizational myths and legends, case scenarios, training scenarios, encoded and embedded business rules, gossip and business conversations. Students learn how to develop business stories, craft and deliver a springboard story, evaluate narrative architectures, and design systems that support access to business narratives and stories.

**Prerequisite:** KM 60301; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**KM 60370 SEMANTIC ANALYSIS METHODS AND TECHNOLOGIES 3 Credit Hours**

(Slashed with KM 80370) Introduces students to the practical contexts, methods and tools associated with semantic analysis. Focuses on early life cycle aspects of semantics, including identification and modeling of semantic problems, design of semantic solutions, and the identification and implementation of appropriate semantic technologies. Covers natural language processing, rule-based and grammar based concept extraction, rule-based and dynamic classification and automated summarization. Students work with a variety of semantic technologies.

**Prerequisite:** KM 60301 or EMAT 64210 or MIS 64036; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**KM 60691 SEMINAR IN KNOWLEDGE MANAGEMENT 1-3 Credit Hours**

(Repeatable for credit) Advanced research by students who are qualified to examine problems of certain special areas related to concentrations of study in knowledge management.

**Prerequisite:** Graduate standing.

**Schedule Type:** Seminar

**Contact Hours:** 1-3 other

**Grade Mode:** Standard Letter

**KM 60693 VARIABLE TITLE WORKSHOP IN KNOWLEDGE MANAGEMENT 1-3 Credit Hours**

(Repeatable for credit) Intensive examination of special topics of interest to those involved in knowledge management. Maximum number of workshop credits for the MS-KM degree is 4 semester hours.

**Prerequisite:** Graduate standing.

**Schedule Type:** Workshop

**Contact Hours:** 1-3 other

**Grade Mode:** Satisfactory/Unsatisfactory

**KM 60792 ELECTIVE INTERNSHIP IN KNOWLEDGE MANAGEMENT 2-3 Credit Hours**

Supervised work experience in knowledge management of a professional nature of not less than 100 clock hours (for 2 credit hours) or 150 clock hours (for 3 credit hours) with directed preparation of a reflection paper.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Practical Experience

**Contact Hours:** 6-10 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**KM 61095 SPECIAL TOPICS IN KNOWLEDGE MANAGEMENT 1-3 Credit Hours**

(Repeatable for credit) Offered irregularly as resources and or opportunities permit. Topics could include current or emerging issues in knowledge management. Specific topics are announced in the Schedule of Classes.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 1-3 lecture

**Grade Mode:** Standard Letter



**KM 61096 INDIVIDUAL INVESTIGATION IN KNOWLEDGE MANAGEMENT 1-3 Credit Hours**

Repeatable for credit) Research or individual investigation in areas not covered in the existing curriculum for master's level students. Maximum credit towards master's degree: 6 hours.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Individual Investigation

**Contact Hours:** 3-9 other

**Grade Mode:** Standard Letter-IP

**KM 66092 MASTER'S INTERNSHIP IN KNOWLEDGE MANAGEMENT 3 Credit Hours**

Supervised work experience of an advanced professional nature that concentrates on developing skills in areas of knowledge management and integrates their knowledge from all KM courses and experiences. Students must have completed 30 credit hours towards the MS-KM program prior to registration.

**Prerequisite:** KM 60301, KM 60303, KM 60304, KM 60305, KM 60307 and LIS 60636; and a minimum 3.000 overall GPA; and graduate standing; and special approval.

**Schedule Type:** Practical Experience

**Contact Hours:** 9 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**KM 66098 MASTER'S PROJECT IN KNOWLEDGE MANAGEMENT 3 Credit Hours**

Provides a means for the application of the knowledge, research and competencies learned through study in knowledge management to the development of an information system, product, setting or service. Students must have completed a minimum of 30 credit hours prior to enrolling in the course.

**Prerequisite:** KM 60301, KM 60303, KM 60304, KM 60305, KM 60307 and LIS 60636; and minimum 3.000 overall GPA; and graduate standing; and special approval.

**Schedule Type:** Master's Project

**Contact Hours:** 3 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**KM 66198 MASTER'S RESEARCH PAPER IN KNOWLEDGE MANAGEMENT 3 Credit Hours**

Under the advisement of a faculty member, students will complete a research paper that serves as a culminating experience for the M.S.-KM program. Students must have completed a minimum of 30 credit hours towards the MS-KM program prior to registration.

**Prerequisite:** KM 60301, KM 60303, KM 60304, KM 60305, KM 60307 and LIS 60636; and minimum 3.000 overall GPA; and graduate standing; and special approval.

**Schedule Type:** Master's Project

**Contact Hours:** 3 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**KM 66199 THESIS I 2-6 Credit Hours**

Thesis students must register for a total of 6 hours, 2 to 6 hours in a single semester distributed over several semesters if desired. Students must have completed a minimum of 30 credit hours towards the MS-KM program prior to registration.

**Prerequisite:** KM 60301, KM 60303, KM 60304, KM 60305, KM 60307 and LIS 60636; and minimum 3.000 overall GPA; and graduate standing; and special approval.

**Schedule Type:** Masters Thesis

**Contact Hours:** 2-6 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**KM 66299 THESIS II 2 Credit Hours**

Thesis students must continue registration each semester until all degree requirements are met.

**Prerequisite:** KM 66199; and graduate standing; and special approval.

**Schedule Type:** Masters Thesis

**Contact Hours:** 2 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**KM 80301 FOUNDATIONAL PRINCIPLES OF KNOWLEDGE MANAGEMENT 3 Credit Hours**

(Slashed with KM 60301) This course covers an introduction to: historical roots for knowledge and knowledge management; theories/definitions of knowledge; theories, applications, tools, and practices of KM; Knowledge Management Life-Cycle Framework and Models; significant issues in KM - best practices, culture, economics, strategy, intellectual capital, sustainable innovation.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**KM 80303 KNOWLEDGE ASSESSMENT AND EVALUATION 3 Credit Hours**

(Slashed with KM 60303) Explores all aspects of effective knowledge management within all types of organizations. Lays out the context for knowledge management – at each multiple levels (strategic, technical, business-aligned, and individual) and across all competencies. Covers theory, practice and methods of assessment and evaluation for all levels and all competencies. Provides an introduction to knowledge strategy formulation and planning, knowledge management maturity modeling, knowledge typologies and audits, knowledge mapping, organizational network analysis, knowledge competency mapping and human capital analytics, strategic workforce planning concepts, internal knowledge markets and incentives, community of practice metrics, organizational culture metrics.

**Prerequisite:** KM 80301; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**KM 80305 COMMUNITIES OF PRACTICE 3 Credit Hours**

(Slashed with KM 60305) Explores collaboration and communities from both a theoretical and a practical perspective. The theory includes structural elements (defining a community identity, scoping the domain, defining practice), and natural lifecycles, and best practices for cultivating communities. On the practical side, students explore strategic placement of communities, the community development process, community design and implementation, and measuring the impacts of communities on intellectual capital creation. Communities of practice are also discussed in the context of digital ecosystems (Web 2.0 and Web 3.0). Utilizes readings and reviews of real life case studies of communities of practice in education, health care and nursing, disaster management, military sciences, and hobbies and craft circles. Students also complete a course project pertaining to community of practice evaluation.

**Prerequisite:** KM 80301; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**KM 80307 ORGANIZATIONAL LEARNING 3 Credit Hours**

(Slashed with KM 60307) Addresses organizational learning in fast-paced, complex and changing organizational environments. For knowledge organizations in the 21st century, learning is a continuous activity. To survive and grow, a knowledge organization must learn through its people, its groups and the organization as a whole. The capacity to learn is a competitive advantage for a knowledge organization. Covers the fundamental theory of organizational learning, organizational learning types, and the five disciplines of learning organizations, and factors that facilitate or impede organizational learning.

**Prerequisite:** KM 80301; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**KM 80310 INTELLECTUAL CAPITAL MANAGEMENT 3 Credit Hours**

(Slashed with KM 60310) This course encompasses the new knowledge-intensive economic units: human capital and social capital intellectual assets, intellectual property, brands, and trademarks. A 'lifecycle' approach for intellectual assets is described - creation, codification, valuation, protection and leveraging of intellectual assets for competitive advantage.

**Prerequisite:** KM 80301 with a minimum C grade; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**KM 80311 BUSINESS PROCESS MANAGEMENT 3 Credit Hours**

(Slashed with KM 60311) Introduction to business process management and workflow management. BPM will describe how organizational business processes, (internal, external, manual and automated), can be transformed and managed to increase efficiency, effectiveness and positively affect performance. Topics include the discovery, analysis, modeling and automation of workflow processes.

**Prerequisite:** KM 80301 with a minimum C grade; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**KM 80312 BUSINESS INTELLIGENCE-COMPETITIVE INTELLIGENCE 3 Credit Hours**

(Slashed with KM 60312) An introduction to strategic intelligence consisting of competitive and business intelligence. Strategic intelligence is an art, science, and craft. Businesses and governments require effective intelligence programs, processes, and tools to track businesses, competitors, markets and trends by acquiring, creating, managing, packaging, and disseminating intelligence knowledge.

**Prerequisite:** KM 80301 with a minimum C grade; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**KM 80315 FOUNDATIONS OF DOCUMENT MANAGEMENT 3 Credit Hours**

(Slashed with KM 60315) Covers three main themes: Principles, which covers the document and records management conceptual framework, relationships with information policy, definitions and industry standards; Practices, which covers the management and procedural framework for effective planning and implementation of document and records management solutions; Technologies, which provides a business-oriented analysis of the nature of the enabling information systems available to support effective document and records management solutions.

**Prerequisite:** KM 80301; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**KM 80316 ORGANIZATIONAL CULTURE ASSESSMENT 3 Credit Hours**

(Slashed with KM 60316) Examines different types of cultures and how each type influences a knowledge organization - how culture influences the way knowledge workers work, how they make decisions and how they behave, the internal cultures of groups and communities, the cultural attributes of knowledge workers which may impact their knowledge behaviors. Organizational cultures of multicultural, global and virtual organizations are covered. Students conduct an organizational culture assessment.

**Prerequisite:** KM 80301; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**KM 80340 BUSINESS NARRATIVE AND STORYTELLING 3 Credit Hours**

(Slashed with KM 60340) Focuses on the business use of storytelling and narrative intelligence. Narrative intelligence is the ability to make sense of the world through narrative and storytelling. Business narrative helps a knowledge organization to strengthen its organizational visions, to enhance communications, to capture and transfer knowledge, externalize and internalize tacit knowledge, encourage innovation, build communities, and develop effective training, mentoring and learning strategies. Business narrative is the primary way that procedural knowledge is understood and shared. Covers oral and written stories, documentaries, oral histories, organizational myths and legends, case scenarios, training scenarios, encoded and embedded business rules, gossip and business conversations. Students learn how to develop business stories, craft and deliver a springboard story, evaluate narrative architectures, and design systems that support access to business narratives and stories.

**Prerequisite:** KM 80301; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**KM 80370 SEMANTIC ANALYSIS METHODS AND TECHNOLOGIES 3 Credit Hours**

(Slashed with KM 60370) Introduces students to the practical contexts, methods and tools associated with semantic analysis. Focuses on early life cycle aspects of semantics, including identification and modeling of semantic problems, design of semantic solutions, and the identification and implementation of appropriate semantic technologies. Covers natural language processing, rule-based and grammar based concept extraction, rule-based and dynamic classification and automated summarization. Students work with a variety of semantic technologies.

**Prerequisite:** KM 80301; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**KM 80691 SEMINAR IN KNOWLEDGE MANGEMENT 1-3 Credit Hours**

(Repeatable for credit) Advanced research by students who are qualified to examine problems of certain special areas related to concentrations of study in knowledge management.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Seminar

**Contact Hours:** 1-3 other

**Grade Mode:** Standard Letter

**KM 81095 SPECIAL TOPICS IN KNOWLEDGE MANAGEMENT 1-3 Credit Hours**

(Repeatable for credit) Offered irregularly as resources and or opportunities permit. Topics could include current or emerging issues in knowledge management. Specific topics are announced in the Schedule of Classes.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 1-3 lecture

**Grade Mode:** Standard Letter

**KM 81096 INDIVIDUAL INVESTIGATION IN KNOWLEDGE MANAGEMENT 1-3 Credit Hours**

Research or individual investigation for doctoral level students.

**Prerequisite:** Doctoral standing; and graduate standing.

**Schedule Type:** Individual Investigation

**Contact Hours:** 3-9 other

**Grade Mode:** Standard Letter-IP

## Library and Information Science (LIS)

**LIS 10010 INFORMATION FLUENCY FOR COLLEGE SUCCESS 3 Credit Hours**

Course teaches information-seeking skills critical to college success, enabling students to become information fluent—able to formulate a research question; locate, evaluate and synthesize information from a variety of contexts, including scholarly and other resources; use information effectively and ethically in academic research; and become active contributors to scholarship.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**LIS 30010 INFORMATION FLUENCY IN THE WORKPLACE AND BEYOND 3 Credit Hours**

Course helps students understand, navigate and become full participants in information society. Students go beyond learning basic library and internet skills to understanding issues specific to professional information environments. Emphasis is placed on acknowledging the contextual, dynamic and fluid nature of information to further understand it as a process, commodity and entity. Students examine and critically reflect on the value of using multiple information resources and emerging technologies to fill gaps in academic, professional and personal information contexts.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**LIS 40645 DATABASE FUNDAMENTALS FOR INFORMATION PROFESSIONALS 3 Credit Hours**

(Slashed with LIS 50645) Characteristics and concepts of database; different types of database models; conceptual database design and implementation; the relational database model and its application in practice for information professionals: key issues, principles, and techniques; data storage, processing, retrieval, analysis, and reporting.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**LIS 40655 COPYRIGHT: UNDERSTANDING USER RIGHTS AND RESPONSIBILITIES 3 Credit Hours**

Exploration of advanced copyright topics such as mass digitization, creative arts and other issues in fair use, library, archive and educational uses including the TEACH Act, digital first sale rights, Digital Millennium Copyright Act, and an introduction to copyright reform.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**LIS 40656 LICENSING OF INFORMATION PRODUCTS AND SERVICES 3 Credit Hours**

Topics related to licensing of information products and services including online contract formation, software licenses (End User License Agreements), database and website terms of service, detailed understanding of common terms and conditions in license agreements and an introduction to music licensing and Creative Commons licensing.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**LIS 40693 VARIABLE TITLE WORKSHOP IN LIBRARY AND INFORMATION SCIENCE 1-3 Credit Hours**

(Repeatable for credit) Intensive examination of special topics of interest.

**Prerequisite:** Junior or senior standing; and special approval.

**Schedule Type:** Workshop

**Contact Hours:** 1-3 other

**Grade Mode:** Satisfactory/Unsatisfactory

**LIS 41095 SELECTED TOPICS IN LIBRARY SCIENCE 1-3 Credit Hours**

(Repeatable for credit) Topics will be announced in schedule of classes.

Offered irregularly as resources and opportunities permit.

**Prerequisite:** Permission.

**Schedule Type:** Lecture

**Contact Hours:** 1-3 lecture

**Grade Mode:** Standard Letter

**LIS 50645 DATABASE FUNDAMENTALS FOR INFORMATION PROFESSIONALS 3 Credit Hours**

(Slashed with LIS 40645) Characteristics and concepts of database; different types of database models; conceptual database design and implementation; the relational database model and its application in practice for information professionals: key issues, principles, and techniques; data storage, processing, retrieval, analysis, and reporting.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**LIS 50693 VARIABLE TITLE WORKSHOP-LIBRARY AND INFORMATION SCIENCE 1-3 Credit Hours**

(Repeatable for credit) Maximum workshop credit accepted for MLIS degree is 4 semester hours. Intensive examination of special topics of interest to practicing librarians.

**Prerequisite:** Graduate standing.

**Schedule Type:** Workshop

**Contact Hours:** 1-3 other

**Grade Mode:** Satisfactory/Unsatisfactory

**LIS 60010 THE INFORMATION LANDSCAPE 3 Credit Hours**

Exploration of the nature of information and technology in information-intensive environments. Topics to be addressed include information lifecycle processes such as production, storage, sharing, and consumption; social, cultural, economic, legal, and technological contexts for understanding information processes; the roles of information professionals and agencies, and their place in the larger information marketplace; current and emerging information technologies that shape the information economy.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**LIS 60020 INFORMATION ORGANIZATION 3 Credit Hours**

Introduction to the theory and practice of information organization and retrieval in various information environments. Familiarity with principles, standards, tools and current systems relating to organization of information and retrieval. Exploration of supported information system functions such as searching, browsing, and navigation. Assessment and evaluation of information organization and retrieval systems.

**Prerequisite:** Graduate standing.

**Pre/corequisite:** LIS 60010 or LIS 60607.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**LIS 60030 PEOPLE IN THE INFORMATION ECOLOGY 3 Credit Hours**

Takes a user-centered approach in exploring the information needs and behaviors of people (as individuals and in groups, communities, and institutions) in relation to the larger information ecology that surrounds them. Topics covered include an overview of information ecology; the user-centered paradigm; major information needs and information behavior theories, models, and findings; the landscape of information sources and services for users; factors that influence people's information needs and behaviors; and user empowerment, information ethics, information fluency, and related issues.

**Prerequisite:** Graduate standing.

**Pre/corequisite:** LIS 60010 or LIS 60607.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**LIS 60040 INFORMATION INSTITUTIONS AND PROFESSIONS 3 Credit Hours**

Examines the political, social, economic, and technical forces that influence the larger environments in which information institutions are situated. This course explores characteristics of the environments in which information professionals may work, including but not limited to academic, school, public, and special libraries, museums, archives, cultural heritage institutions, government organizations, corporations across all industries, and information creators and publishers. The course explores characteristics of the information profession including core values and principles, emerging professions, and understanding possible futures in profession, and explores ideas of organizational behavior in information institutions that operate across the institution as a whole, within groups, and within individuals in the organization.

**Prerequisite:** Graduate standing.

**Pre/corequisite:** LIS 60010.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**LIS 60050 RESEARCH AND ASSESSMENT IN LIBRARY AND INFORMATION SCIENCE 3 Credit Hours**

Focuses on quantitative and qualitative research methods applicable to information settings and environments. Explores research design, data analysis, proposal development, and ethical issues.

**Prerequisite:** Graduate standing.

**Pre/corequisite:** LIS 60010 or LIS 60607.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**LIS 60092 MASTER'S INTERNSHIP IN LIBRARY AND INFORMATION SCIENCE 3 Credit Hours**

Under the advisement of a faculty member, students complete a professional-level internship that serves as a culminating experience for the M.L.I.S. degree. A minimum GPA of 3.000 is required for registration in this course.

**Prerequisite:** LIS 60010 and LIS 60020 and LIS 60030 and LIS 60040 and LIS 60050; and 24 credit hours completed in the MLIS program; and Graduate standing and special approval.

**Schedule Type:** Practical Experience

**Contact Hours:** 10 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**LIS 60098 MASTER'S PROJECT IN LIBRARY AND INFORMATION SCIENCE 3 Credit Hours**

Under the advisement of a faculty member, students will complete a master's research project that serves as a culminating experience for the M.L.I.S. degree. A minimum GPA of 3.000 is required for registration in this course.

**Prerequisite:** LIS 60050; and LIS 60010 and LIS 60020 and LIS 60030 and LIS 60040; and 24 credit hours completed in the MLIS program; and Graduate standing and special approval.

**Schedule Type:** Master's Project

**Contact Hours:** 3 lecture

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**LIS 60198 MASTER'S PAPER IN LIBRARY AND INFORMATION SCIENCE 3 Credit Hours**

Under the advisement of a faculty member, students will complete a research paper that serves as a culminating experience for the M.L.I.S. degree. A minimum GPA of 3.000 is required for registration in this course.

**Prerequisite:** LIS 60010 and LIS 60020 and LIS 60030 and LIS 60040 and LIS 60050; and 24 credit hours completed in the MLIS program; and graduate standing; and special approval.

**Schedule Type:** Research

**Contact Hours:** 10 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**LIS 60199 THESIS I 2-6 Credit Hours**

Thesis students must register for a total of 6 hours, 2 to 6 hours in a single semester, distributed over several semesters if desired. Students must have a minimum cumulative GPA of 3.000 to be eligible for this course. In order to qualify for graduation, graduate students must have a 3.000 cumulative GPA in all graduate courses attempted.

**Prerequisite:** LIS 60050; or LIS 60010 and LIS 60020 and LIS 60030 and LIS 60040 and LIS 60050; and 24 hours of LIS coursework; and graduate standing; and special approval.

**Schedule Type:** Masters Thesis

**Contact Hours:** 2-6 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**LIS 60280 MASTER'S PORTFOLIO IN LIBRARY AND INFORMATION SCIENCE 1 Credit Hour**

Completed in a student's last semester. It will include the creation of an electronic portfolio to represent and self-evaluate the student's experience throughout the MLIS program, considering program learning outcomes and preparation for a career in the field of library and information science.

**Prerequisite:** LIS 60010, LIS 60030 and LIS 60050; and LIS 60020 or LIS 60624; and LIS 60040 or LIS 60607; and 24 credit hours completed in the MLIS program; and graduate standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 1 lecture

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**LIS 60299 THESIS II 2 Credit Hours**

Thesis students must continue registration each semester until all degree requirements are met.

**Prerequisite:** LIS 60199; and graduate standing.

**Schedule Type:** Masters Thesis

**Contact Hours:** 2 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**LIS 60401 LEADERSHIP IN LIBRARIES AND INFORMATION CENTERS 3 Credit Hours**

This course will review the concept of leadership while delving into its relationship to and differences from management, and its application in the personal and professional lives of information professionals. Beginning with an examination of personal leadership styles, the course will review the major philosophies of leadership thought that affect the library and information fields, the role of mentors, team building, project management, the moral and ethical responsibilities of leading others and leading through change in the information world.

**Prerequisite:** LIS 60040; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**LIS 60510 DIGITAL TECHNOLOGIES I: DATA FUNDAMENTALS 1 Credit Hour**

The first of three one-credit courses in digital technologies, this course presents foundational knowledge on the principles that underlie digital resources and services in modern information society, with specific emphasis on data representation, encoding, formatting, and data modeling.

**Prerequisite:** Graduate standing.

**Pre/corequisite:** LIS 60010; or UXD 60001; or KM 60301; or HI 60401.

**Schedule Type:** Lecture

**Contact Hours:** 1 lecture

**Grade Mode:** Standard Letter

**LIS 60511 DIGITAL TECHNOLOGIES II: INTERNET FUNDAMENTALS 1 Credit Hour**

The second of three one-credit courses in digital technologies, this course presents foundational knowledge on the principles that underlie digital resources and services in modern information society, with specific emphasis on online information systems, the Internet, and data security.

**Prerequisite:** Graduate standing.

**Pre/corequisite:** LIS 60510.

**Schedule Type:** Lecture

**Contact Hours:** 1 lecture

**Grade Mode:** Standard Letter

**LIS 60512 DIGITAL TECHNOLOGIES III: INFORMATION SYSTEMS FUNDAMENTALS 1 Credit Hour**

The third of three one-credit courses in digital technologies, this course presents foundational knowledge on the principles that underlie digital resources and services in modern information society, with specific emphasis on Web-based information applications, programming logic, Linked Data, and the interpretation of data.

**Prerequisite:** Graduate standing.

**Pre/corequisite:** LIS 60511.

**Schedule Type:** Lecture

**Contact Hours:** 1 lecture

**Grade Mode:** Standard Letter

**LIS 60601 INFORMATION SOURCES AND REFERENCE SERVICES 3 Credit Hours**

(Slashed with LIS 80601) Introduction to use and evaluation of basic sources of reference information, computerized and noncomputerized; reference interview and question-negotiation techniques; administration of reference and information services.

**Prerequisite:** LIS 60030; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter



**LIS 60602 RESOURCE DESCRIPTION AND ACCESS 3 Credit Hours**

Theoretical foundation, principles, core concepts, and practical application of current standards and conceptual models for the description (descriptive cataloging) of a variety of resources in information institutions. Topics include history and principles of descriptive cataloging standards, best practices documentation, resource discovery, authority work, encoding standards and structures, linked data, ethical issues, as well as current topics in resource description and access, such as emerging technologies and future directions.

**Prerequisite:** LIS 60020; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**LIS 60603 SUBJECT ANALYSIS, REPRESENTATION AND ACCESS 3 Credit Hours**

The course focuses on the theories, principles, and practices of subject analysis of the intellectual content of information resources and its representation through controlled vocabularies and classification. It covers fundamental concepts of aboutness, vocabulary control, classification theory, ethical considerations, and the theoretical foundations, structure, and the application of major subject vocabularies (LCSH), classification schemes (DDC and LCC), and other knowledge organization systems. The course also includes examinations of authority control for subject headings.

**Prerequisite:** LIS 60020; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**LIS 60607 SCHOOL LIBRARY MANAGEMENT 3 Credit Hours**

School Library Management focuses on theoretical and practical aspects of school library management. This course provides a foundation for the completion of a successful culminating experience practicum and licensure exam for School Library Media licensure K-12. The course content delivery, exploration activities and completion of assignments have been aligned with state of Ohio and the American Association of School Librarians national school library media standards and guidelines.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**LIS 60608 THE PUBLIC LIBRARY 3 Credit Hours**

(Slashed with LIS 80608) Analysis of the historical, sociopolitical, technological, fiscal and organizational factors affecting American public librarianship. Includes evaluation, planning, networking, funding, automation, buildings and censorship.

**Prerequisite:** LIS 60040; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**LIS 60609 MARKETING THE LIBRARY 3 Credit Hours**

(Slashed with LIS 80609) Introduction to the theory and practice of marketing the library. Topics include the evaluation of customer needs, the marketing mix, merchandising, public relations, relationship marketing, and the design and development of a marketing plan for libraries.

**Prerequisite:** Graduate standing.

**Pre/corequisite:** LIS 60010.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**LIS 60611 GOVERNMENT INFORMATION SOURCES AND SERVICES 3 Credit Hours**

(Slashed with LIS 80611) Library treatment of U.S. government publications with brief attention to municipal and state publications, and major documents of Great Britain, Canada and the United Nations.

**Prerequisite:** LIS 60030; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**LIS 60612 LIBRARY MATERIALS AND SERVICES FOR ADULTS 3 Credit Hours**

(Slashed with LIS 80612) Recent investigations of group and individual reading habits; advisory services in various types of libraries; library programs for adult education; projection of library materials toward community.

**Prerequisite:** Graduate standing.

**Pre/corequisite:** LIS 60010.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**LIS 60613 INFORMATION NEEDS, SEEKING AND USE 3 Credit Hours**

(Slashed with LIS 80613) Surveys theories and research related to people's interactions with information. The theories covered include information context and situation, information needs, information seeking, exploration of information sources, communication and collaboration in the information search process, information use, and other interactions among people, information, and information systems.

**Prerequisite:** LIS 60030; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**LIS 60614 SELECTION AND ACQUISITION OF LIBRARY MATERIALS 3 Credit Hours**

(Slashed with LIS 80614) Factors affecting selection in public, academic, school and special libraries (reading habits, censorship, publishing trends) community analysis, selection policies and process; selection sources; acquisitions.

**Prerequisite:** Graduate standing.

**Pre/corequisite:** LIS 60010.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**LIS 60615 THE ACADEMIC LIBRARY 3 Credit Hours**

(Slashed with LIS 80615) Governance, administration and services of libraries in institutions of postsecondary education.

**Prerequisite:** LIS 60040; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**LIS 60616 THE SPECIAL LIBRARY 3 Credit Hours**

(Slashed with LIS 80616) The formation of special libraries. Libraries in special subject fields and in organizations: corporations, government agencies, hospitals, etc. Internal organization and administration collection development and services.

**Prerequisite:** LIS 60040; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**LIS 60618 INFORMATION LITERACY INITIATIVES AND INSTRUCTION 3 Credit Hours**

(Slashed with LIS 80618) Invites information professionals from any library point-of-view (school, public, academic, archives, special, etc.). Topics include definitions and history of information literacy standards and objectives, developing an information literacy agenda, library pedagogy and learning styles, information literacy needs assessment, program development and delivery, and experiential learning in library communities.

**Prerequisite:** LIS 60030; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**LIS 60619 LEGAL INFORMATION SOURCES AND SERVICES 3 Credit Hours**

(Cross-listed with AS 43001 and AS 53001 and AS 73001) (Slashed with LIS 80619) Fundamentals of legal research methods and major sources of American legal literature in print and electronic formats as used in other disciplines. Students learn how to formulate a research plan based on legal analysis of issues using relevant, authoritative legal resources.

**Prerequisite:** LIS 60030; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**LIS 60620 HEALTH INFORMATION RESOURCES 3 Credit Hours**

(Slashed with LIS 80620) Identifies print and electronic sources of health information with emphasis on electronic sources. Medical patient and consumer health information is presented. This course is designed for the health educator, librarian, nurse or other health care professional.

**Prerequisite:** Graduate standing.

**Pre/corequisite:** LIS 60010.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**LIS 60621 SOCIAL SCIENCES INFORMATION SOURCES AND SERVICES 3 Credit Hours**

(Slashed with LIS 80621) Content, bibliographic structure and communication patterns in the social sciences with emphasis on information sources and services in sociology, history, education, political science, anthropology, related disciplines.

**Prerequisite:** LIS 60030; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**LIS 60622 SCIENCE/TECHNOLOGY INFORMATION SOURCES AND SERVICES 3 Credit Hours**

(Slashed with LIS 80622) Content, bibliographic structure and communication patterns in the sciences with emphasis on pure and applied fields, e.g., mathematics, biology, physics.

**Prerequisite:** LIS 60030; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**LIS 60623 BUSINESS/FINANCE INFORMATION SOURCES AND SERVICES 3 Credit Hours**

(Slashed with LIS 80623) Historical development; applications to current business, labor, governmental, educational and sociological information needs; interpretation to executives and others; printed sources and databases.

**Prerequisite:** LIS 60030; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**LIS 60624 CATALOGING FOR SCHOOL LIBRARIES 3 Credit Hours**

(Slashed with LIS 80624) Organization and administration of print and non-print materials in school libraries. Application of appropriate descriptive cataloging rules, subject headings and classification policies for children's, teen and educational materials K-12.

**Prerequisite:** Graduate standing.

**Pre/corequisite:** LIS 60010 or LIS 60607.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**LIS 60625 ENGAGING YOUNG CHILDREN AND FAMILIES 3 Credit Hours**

(Slashed with LIS 80625) Selection and utilization of materials in relation to needs, abilities and interests of the young child.

**Prerequisite:** Graduate standing.

**Pre/corequisite:** LIS 60010.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**LIS 60626 ENGAGING TEENS 3 Credit Hours**

(Slashed with LIS 80626) Selection and utilization of books and materials in relation to needs, abilities and interests of teens.

**Prerequisite:** Graduate standing.

**Pre/corequisite:** LIS 60010 or LIS 60607.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**LIS 60627 ART AND STORY: THE STUDY OF CHILDREN'S PICTUREBOOKS 3 Credit Hours**

(Slashed with LIS 80627) Engages students in the study and application of art and story in children's picturebooks through the lenses of book history, publishing studies, children's book illustration and storytelling, visual literacy and visual storytelling. Readers of picturebooks are studied as well, from professional readers, like librarians and book reviewers, to picturebook consumers.

**Prerequisite:** Graduate standing.

**Pre/corequisite:** LIS 60010.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**LIS 60628 HUMANITIES INFORMATION SOURCES AND SERVICES 3 Credit Hours**

(Slashed with LIS 80628) Philosophy, literature, fine and performing arts.

**Prerequisite:** LIS 60030; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**LIS 60629 ENGAGING SCHOOL-AGE CHILDREN 3 Credit Hours**  
(Slashed with LIS 80629) Selection and utilization of materials in relation to needs, abilities and interests of school age children.

**Prerequisite:** Graduate standing.

**Pre/corequisite:** LIS 60010 or LIS 60607.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**LIS 60630 REFERENCE SOURCES AND SERVICES FOR YOUTH 3 Credit Hours**

(Slashed with LIS 80630) Organization and administration of information sources and information services for children and young adults (K-12). Evaluation selection and utilization of print and electronic sources.

**Prerequisite:** Graduate standing.

**Pre/corequisite:** LIS 60010 or LIS 60607.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**LIS 60631 INTRODUCTION TO DIGITAL PRESERVATION 3 Credit Hours**

Approaches and standards for preserving and maintaining access to digitized and born-digital text, images, data, audiovisual information, and web resources. Topics include longevity of digital media, selection for preservation; formats and strategies for preservation; preservation metadata; integrity and authenticity of digital materials; establishment and certification of trustworthy digital repositories; risk management; and policy development.

**Prerequisite:** LIS 60020 and LIS 60511; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**LIS 60633 DIGITAL CURATION 3 Credit Hours**

(Slashed with LIS 80633) Management and preservation of digital objects and records throughout their lifecycle. Essential technologies and standards for building and maintaining robust, trusted digital repositories. Emphasizes the use and reuse of scholarly data, business and government records, cultural heritage materials, and other digital objects to create resources supporting communities of practice in their work.

**Prerequisite:** LIS 60511; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**LIS 60635 CULTURAL HERITAGE INFORMATICS 3 Credit Hours**

(Slashed with LIS 80635) Cultural heritage informatics brings a comprehensive, cross-disciplinary approach to supporting the entire lifecycle of cultural heritage information and documentation procedures for the benefit of the preservation, study, and promotion of cultural heritage. The course covers methods of creating descriptions for cultural objects, as well as organizing, delivering, and presenting the cultural heritage (tangible, intangible, and digital) resources in the digital age. The course aims to prepare students for careers focusing on or transcending libraries, archives, museums (LAMs), historical societies, and other cultural institutions by introducing them the methodologies and technologies commonly used in cultural heritage informatics and can be broadly implemented in LAMs.

**Prerequisite:** LIS 60020; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**LIS 60636 KNOWLEDGE ORGANIZATION STRUCTURES, SYSTEMS AND SERVICES 3 Credit Hours**

(Slashed with LIS 80636) Introduction to various types of knowledge organization systems, services, and structures (KOS) used in the networked environment. Understanding of the functional philosophical, logical, and linguistic fundamentals of KOS. Explanation of design options, features of KOS, and procedures to be used in the thesaurus, taxonomy and ontology construction.

**Prerequisite:** LIS 60020; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**LIS 60637 METADATA ARCHITECTURE AND IMPLEMENTATION 3 Credit Hours**

(Slashed with LIS 80637) Principles and theories of metadata development in the digital environment. Main focus is given to the design and applications of metadata schemas for distinct domains and information communities, issues in metadata interoperability, vocabulary control, quality control and evaluation. Examination of international standards, activities and projects with the use of case study approach.

**Prerequisite:** LIS 60020; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**LIS 60638 DIGITAL LIBRARIES 3 Credit Hours**

(Slashed with LIS 80638) This course introduces a broad set of issues involved in the development and maintenance of digital libraries, including policy development, technology, collection development, project management, user-centered design, digitization, metadata, and interoperability.

**Prerequisite:** LIS 60512; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**LIS 60639 IMPLEMENTATION OF DIGITAL LIBRARIES 3 Credit Hours**

(Slashed with LIS 80639) Explores issues related to implementation of digital libraries and provides hands-on experience for student to build digital library prototypes (small-scale) with open source software. Emphasis is on design and implementation of key digital library functions, including building digital collections, defining and creating metadata, indexing, browsing and retrieval, customizing interface, implementing services, encoding and transforming for data exchange, and testing the usability and effectiveness.

**Prerequisite:** LIS 60638; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**LIS 60640 LIBRARY AUTOMATION 3 Credit Hours**

(Slashed with LIS 80640) Analysis, design and selection of automated library systems. Considers system analysis and requirements, networking technologies, database management systems, multimedia and hypermedia, and client-server computing. Also, proposals to vendors, contract negotiation, implementation, staffing, training, system maintenance and evaluation.

**Prerequisite:** LIS 60020; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**LIS 60641 INFORMATION STORAGE AND RETRIEVAL SYSTEMS 3 Credit Hours**

(Slashed with LIS 80641) Fundamentals of information retrieval models and methods, including information storage structures, full-text indexing, structured indexes, search engines and web retrieval, human-computer interaction, and the user's experience, system performance and evaluation.

**Prerequisite:** LIS 60512; and graduate standing; and special approval.

**Pre/corequisite:** LIS 60010.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**LIS 60643 ONLINE INFORMATION SYSTEMS 3 Credit Hours**

(Slashed with LIS 80643) Use of information technologies to search for and retrieve electronic information, primarily through the Internet. Analysis of database structures and electronic records; search principles and heuristics; database system producers; system interfaces; and evaluation of results.

**Prerequisite:** LIS 60030; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**LIS 60649 INDEXING AND ABSTRACTING 3 Credit Hours**

(Slashed with LIS 80649) Principles and methods of manual and computerized indexing and abstracting applied to I & A databases, back of book indexes, website indexes and sitemaps. Techniques of constructing indexing languages using international standards. Theory and practice of index design for specific formats and subjects. Automation and I & A services in networked environments.

**Prerequisite:** LIS 60020; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**LIS 60650 INFORMATION POLICY 3 Credit Hours**

(Slashed with LIS 80650) Political, economic, cultural and legal issues regarding the production, distribution and use of information (print, electronic and Web). Policy-making process, standards and protocols, intellectual property, information economy, impact of computers on access and policy, privacy rights, transnational flow of information and the Internet and the World Wide Web.

**Prerequisite:** LIS 60040; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**LIS 60651 DIGITAL IMAGE PROCESSING AND COLLECTION MANAGEMENT 3 Credit Hours**

(Slashed with LIS 80651) This course is designed to introduce students to the fundamental concepts, terminology, techniques and applications of digital imaging as they relate to the development of digital image collections depicting works found in museum collections, archives and special collections in libraries. The students will acquire knowledge and skills necessary to design, create, and manage digital images of text, graphics, slides and reproductions of 3-D objects. They will also be introduced to the principles and issues that pertain to the creation and distribution of digital image archives via image databases and the Web environment.

**Prerequisite:** LIS 60020; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**LIS 60652 FOUNDATIONS OF RECORDKEEPING IN SOCIETY 3 Credit Hours**

(Slashed with LIS 80652) An introduction to the core principles and practices of recordkeeping and the multiple and complex roles records and archives play in identity, evidence, transparency, memory, accountability, equity, representation and trust in society. This course covers historical and contemporary recordkeeping contexts related to individuals, family, community, organization, corporate, academia and government, as well as traditional, nontextual and digital formats of records and archives.

**Prerequisite:** Graduate standing.

**Pre/corequisite:** LIS 60010; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**LIS 60653 INFORMATION SOURCES AND SERVICES IN LOCAL HISTORY AND GENEALOGY 3 Credit Hours**

Introduces primary and secondary resources and materials to promote and perform reference services in genealogy and local history through lectures, readings, discussion, and practical exercises. The course will use primary and secondary materials available to librarians and archivists in libraries, archives, historical societies and on the Internet.

**Prerequisite:** LIS 60030; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**LIS 60654 PRESERVATION AND CONSERVATION OF HERITAGE MATERIALS 3 Credit Hours**

(Slashed with LIS 80654) Types and causes of deterioration of various kinds of library, archival, and museum collections; storage and preventive care, preservation through photographic reproduction and digital conversion, and conservation of rare materials.

**Prerequisite:** Graduate standing.

**Pre/corequisite:** LIS 60010.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**LIS 60655 COPYRIGHT: UNDERSTANDING USER RIGHTS AND RESPONSIBILITIES 3 Credit Hours**

(Slashed with LIS 80655) Exploration of advanced copyright topics such as mass digitization, creative arts and other issues in fair use, library, archive and educational uses including the TEACH Act, digital first sale rights, Digital Millennium Copyright Act, and an introduction to copyright reform.

**Prerequisite:** Graduate standing.

**Pre/corequisite:** LIS 60010.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter



**LIS 60656 LICENSING OF INFORMATION PRODUCTS AND SERVICES 3 Credit Hours**

(Slashed with LIS 80656) Topics related to licensing of information products and services including online contract formation, software licenses (End User License Agreements), database and website terms of service, detailed understanding of common terms and conditions in license agreements and an introduction to music licensing and Creative Commons licensing.

**Prerequisite:** Graduate standing.

**Pre/corequisite:** LIS 60010.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**LIS 60657 THEORY AND METHODS OF ARCHIVAL ACQUISITION, SELECTION AND APPRAISAL 3 Credit Hours**

(Slashed with LIS 80657) This course provides a comprehensive introduction to the theory, methods and traditions employed by records professionals to form and shape archives as societal memory. This course focusses primarily on acquisition, selection, documentation and appraisal theory and methods. Students will also examine contemporary records frameworks and approaches and issues faced by archivists, special collections librarians and manuscript curators employed to identify, evaluate, acquire and dispose of records.

**Prerequisite:** LIS 60652; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**LIS 60661 TECHNICAL SERVICES 3 Credit Hours**

(Slashed with LIS 80661) Principles, problems and current issues of acquiring, processing and preserving/conserving materials in libraries and information centers.

**Prerequisite:** LIS 60020; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**LIS 60664 MUSIC INFORMATION AND LIBRARIANSHIP 3 Credit Hours**

Introduction to music information and librarianship in library and archival settings. Includes discussion of issues relating to acquisition, cataloging, retrieval, use, and management of music information and resources both traditional and digital.

**Prerequisite:** LIS 60030; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**LIS 60665 RARE BOOKS AND SPECIAL COLLECTIONS 3 Credit Hours**

(Slashed with LIS 80665) Study of the theory and practice of rare books and special collections librarianship. Topics to be addressed include identification and description of collections, history of the book, valuation, collection development, preservation, security, access and discovery, promotion and outreach, and administration of collections and resources.

**Prerequisite:** LIS 60010; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**LIS 60666 ETHICAL CONCERNS OF LIBRARY AND INFORMATION PROFESSIONALS 3 Credit Hours**

(Slashed with LIS 80666) Analysis of ethical concerns of information professionals: codes of ethics, intellectual freedom, free access, privacy, confidentiality, computer issues and relations with management, clients and colleagues.

**Prerequisite:** LIS 60040; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**LIS 60668 INTERNATIONAL LIBRARIANSHIP AND INFORMATION SERVICES 3 Credit Hours**

(Slashed with LIS 80668) Main theoretical traditions, concepts, and in-depth understanding of international librarianship (library communication on international issues) and comparative librarianship (comparative study of information services in specific contexts) through the study of international cooperation, influences, development aid, international organizations and associations, differences, major issues facing library and information services within their socio-economic, political, and cultural contexts, and innovations to solve these issues across the world.

**Prerequisite:** Graduate standing.

**Pre/corequisite:** LIS 60010.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**LIS 60675 YOUTH LITERATURE IN THE DIGITAL REALM 3 Credit Hours**

From apps, to eBooks, to multi-platform books, to books with augmented reality, new digital formats extend books across media platforms, and provide readers with new, interactive ways of engaging with texts. However, the proliferation of new media formats means there are just as many questions related to their selection, evaluation, and use. This course aims to answer those questions and to critically examine digital formats and related implications for stakeholders in the field of literary production for young people, including librarians, publishers, authors, illustrators, and readers.

**Prerequisite:** Graduate standing.

**Pre/corequisite:** LIS 60010.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**LIS 60691 SEMINAR IN LIBRARY SCIENCE 1-3 Credit Hours**

(Repeatable for credit) (Slashed with LIS 80691) Advanced research by small groups of students who are qualified to examine problems of certain special areas.

**Prerequisite:** Graduate standing.

**Schedule Type:** Seminar

**Contact Hours:** 1-3 other

**Grade Mode:** Standard Letter



**LIS 60692 INTERNSHIP IN INFORMATION AND CULTURAL HERITAGE INSTITUTIONS 2,3 Credit Hours**

(Repeatable for credit) Supervised experience of a professional nature of not less than 100 clock hours for 2 credit hours or not less than 150 hours for 3 credit hours in an information or cultural heritage institution. Deliverables determined with instructor of record. Maximum registration of 2-3 credit hours per semester. No more than a total of 6 credit hours of Internship or Individual Investigation or any combination of the two may count toward MLIS degree requirements.

**Prerequisite:** LIS 60040; and graduate standing; and special approval.

**Schedule Type:** Practical Experience

**Contact Hours:** 6-9 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**LIS 60693 VARIABLE TITLE WORKSHOP-LIBRARY AND INFORMATION SCIENCE 1-3 Credit Hours**

(Repeatable for credit) Intensive examination of special topics of interest to practicing librarians. May be repeated. Maximum workshop credit accepted for MLIS degree is 4 semester hours.

**Prerequisite:** Graduate standing.

**Schedule Type:** Workshop

**Contact Hours:** 1-3 other

**Grade Mode:** Satisfactory/Unsatisfactory

**LIS 60695 SPECIAL PROBLEMS IN LIBRARY SCIENCE 1-10 Credit Hours**

(Repeatable for credit) (Slashed with LIS 80695) Individual research at high levels of specialization. Intended for persons in sixth year program.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 1-10 lecture

**Grade Mode:** Standard Letter-IP

**LIS 60700 FOUNDATIONS OF MUSEUM STUDIES 3 Credit Hours**

(Slashed with LIS 80700) Intended for those interested in learning more about museums or specializing in museum studies. The goal is to introduce students to various aspects of all types of museums as dynamic networked systems positioned around objects, people and ideas. Covers history and types of museums, the roles of objects and ideas, structure, function, museum workers and users, and the purpose and future of museums.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**LIS 60701 MUSEUM COLLECTIONS 3 Credit Hours**

(Slashed with LIS 80701) This course introduces students to the organization, care and meaning of objects held in museum collections. Through both theoretical and practical concepts, basic collection management and registration skills are introduced. In conjunction, students explore the meanings made of museum objects.

**Prerequisite:** LIS 60700; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**LIS 60702 MUSEUM COMMUNICATION 3 Credit Hours**

(Slashed with LIS 80702) Museums communicate to the public in a multitude of ways: interpretation, exhibition, publication, educational programming and using a web presence. This course introduces important concepts, theories, applications, processes and technology used in museum interpretation and communication. Students are provided with a balance of practical techniques with thoughtful conceptual exploration.

**Prerequisite:** LIS 60700; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**LIS 60703 MUSEUM USERS 3 Credit Hours**

(Slashed with LIS 80703) Families, individuals and students visit museums and community institutions for a variety of purposes including leisure, education and curiosity. Introduction to the research and theory on museum user experience. Inquiry involves examining notions of learning, engagement, and transformative experiences of users, characteristics of users and the social dynamics of the museum experience. In addition, reviews several programmatic techniques and methods used in museums to increase engagement and learning for patrons.

**Prerequisite:** LIS 60700; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**LIS 60704 THE MUSEUM SYSTEM 3 Credit Hours**

(Slashed with LIS 80704) Museums are by their very nature complex and dynamic systems composed of people, objects and activities. Comprised of an "outer" subsystem and an "inner" subsystem, the museum as a whole functions as an organic body, with all of its parts working together to function successfully. This system exists within a larger landscape, one filled increasingly with new types of interactions, unlimited access and constant feedback. This course explores this holistic system from both practical and conceptual viewpoints, examining the role of administration throughout the system as well as considering current issues such as sustainability, advocacy and relationships with community and users add to an overall understanding of the museum system.

**Prerequisite:** LIS 60700; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**LIS 60705 MUSEUM ORIGINS 3 Credit Hours**

(Slashed with LIS 80705) While the collecting of objects can be found as far back as ancient times in various parts of the world, the birth of the modern museum finds its roots in Europe. In the context of today's world, students will "go back in time" to understand the origins of western museums and the creation, use, and meaning of publicly shared collections over time. Students will explore the history of the modern museum and spend time visiting actual sites and collections that played a role in this history. Exploring the past in this way is geared specifically to help today's museum workers gain a better understanding of their own role and purpose in their community, society, and nation.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**LIS 60792 CULMINATING EXPERIENCE PRACTICUM IN K-12 LIBRARIES 3 Credit Hours**

Under the advisement of a faculty member, students complete a professional-level practicum that serves as a culminating experience for the M.L.I.S. degree.

**Prerequisite:** LIS 60607 or LIS 60040; and LIS 60624 or LIS 60020; and LIS 60618, LIS 60626, LIS 60629, LIS 60630 and LIS 60050; and minimum 3.000 overall GPA; and 24 hours completed in the MLIS degree program; or school library media program; and graduate standing; and special approval.

**Schedule Type:** Practical Experience

**Contact Hours:** 9 other

**Grade Mode:** Standard Letter-IP

**LIS 60892 CULMINATING EXPERIENCE FOR DUAL DEGREE 6 Credit Hours**

Culminating experience for students pursuing dual degree in M.Ed. and MLIS and K-12 School Library Media licensure. Must be in a supervised educational library or information center.

**Prerequisite:** ADED 62145, CI 67310, CI 67330, EPSY 65524, LIS 60030, LIS 60050, LIS 60618, LIS 60630 and SPED 63200; and LIS 60607 or LIS 60040; and LIS 60020 or LIS 60624; and graduate standing; and special approval.

**Schedule Type:** Practical Experience

**Contact Hours:** 18 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**LIS 61095 SELECTED TOPICS IN LIBRARY SCIENCE 1-3 Credit Hours**

(Repeatable for credit) (Slashed with LIS 81095) Offered irregularly as resources and/or opportunities permit. Topics will be announced in the schedule of classes.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 1-3 lecture

**Grade Mode:** Standard Letter

**LIS 61096 INDIVIDUAL INVESTIGATION 1-3 Credit Hours**

(Repeatable for credit) Research or individual investigation for master's level graduate students. Deliverables determined with instructor of record. Maximum registration of 1-3 credit hours per semester. Students may count a maximum of 6 credit hours of individual investigation toward their MLIS degree requirements. No more than a total of 6 credit hours of Internship or Individual Investigation or any combination of the two may count toward MLIS degree requirements.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Individual Investigation

**Contact Hours:** 1-3 other

**Grade Mode:** Standard Letter-IP

**LIS 80601 INFORMATION SOURCES AND REFERENCE SERVICES 3 Credit Hours**

(Slashed with LIS 60601) Introduction to use and evaluation of basic sources of reference information, computerized and noncomputerized; reference interview and question-negotiation techniques; administration of reference and information services.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**LIS 80602 CATALOGING AND CLASSIFICATION I 3 Credit Hours**

Principles of cataloging with emphasis on Dewey Decimal and Library of Congress Classification systems, Library of Congress subject headings, online cataloging and administration.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**LIS 80607 SCHOOL LIBRARY MANAGEMENT 3 Credit Hours**

(Slashed with LIS 60607) Management of school libraries.

**Prerequisite:** Doctoral standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**LIS 80608 THE PUBLIC LIBRARY 3 Credit Hours**

(Slashed with LIS 60608) Analysis of the historical, sociopolitical, technological, fiscal and organizational factors affecting American public librarianship. Includes evaluation, planning, networking, funding, automation, buildings and censorship.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**LIS 80609 MARKETING THE LIBRARY 3 Credit Hours**

(Slashed with LIS 60609) Introduction to the theory and practice of marketing the library. Topics include the evaluation of customer needs, the marketing mix, merchandising, public relations, relationship marketing, and the design and development of a marketing plan for libraries.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**LIS 80611 GOVERNMENT INFORMATION SOURCES AND SERVICES 3 Credit Hours**

(Slashed with LIS 60611) Library treatment of U.S. government publications, with brief attention to municipal and state publications, and major documents of Great Britain, Canada and the United Nations. Will not include materials covered in LIS 60601/LIS 80601.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**LIS 80612 LIBRARY MATERIALS AND SERVICES FOR ADULTS 3 Credit Hours**

(Slashed with LIS 60612) Recent investigations of group and individual reading habits; advisory services in various types of libraries; library programs for adult education; projection of library materials toward community.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**LIS 80613 INFORMATION NEEDS, SEEKING AND USE 3 Credit Hours**

(Slashed with LIS 60613) Surveys theories and research related to people's interactions with information. The theories covered include information context and situation, information needs, information seeking, exploration of information sources, communication and collaboration in the information search process, information use, and other interactions among people, information, and information systems.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**LIS 80614 SELECTION AND ACQUISITION OF LIBRARY MATERIALS 3 Credit Hours**

(Slashed with LIS 60614) Factors affecting selection in public, academic, school and special libraries (reading habits, censorship, publishing trends); community analysis, selection policies and process; selection sources; acquisitions.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**LIS 80615 THE ACADEMIC LIBRARY 3 Credit Hours**

(Slashed with LIS 60615) Governance, administration and services of libraries in institutions of postsecondary education.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**LIS 80616 THE SPECIAL LIBRARY 3 Credit Hours**

(Slashed with LIS 60616) The formation of special libraries. Libraries in special subject fields and in organizations: corporations, government agencies, hospitals, etc. Internal organization and administration, collection development and services.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**LIS 80618 INFORMATION LITERACY INITIATIVES AND INSTRUCTION 3 Credit Hours**

(Slashed with LIS 60618) Invites information professionals from any library point-of-view (school, public, academic, archives, special, etc.). Topics include definitions and history of information literacy standards and objectives, developing an information literacy agenda, library pedagogy and learning styles, information literacy needs assessment, program development and delivery, and experiential learning for students in library communities.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**LIS 80619 LEGAL INFORMATION SOURCES AND SERVICES 3 Credit Hours**

(Slashed with LIS 60619) (Cross-listed with AS 43001 and AS 53001 and AS 73001) Fundamentals of legal research methods and major sources of American legal literature in print and electronic formats as used in other disciplines. Students learn how to formulate a research plan based on legal analysis of issues using relevant, authoritative legal resources.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**LIS 80620 HEALTH INFORMATION RESOURCES 3 Credit Hours**

(Slashed with LIS 60620) Identifies print and electronic sources of health information with emphasis on electronic sources. Medical patient and consumer health information is presented. This course is designed for the health educator, librarian, nurse or other healthcare professional.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**LIS 80621 SOCIAL SCIENCES INFORMATION SOURCES AND SERVICES 3 Credit Hours**

(Slashed with LIS 60621) Content, bibliographic structure and communication patterns in the social sciences with emphasis on information sources and services in sociology, history, education, political science, anthropology, related disciplines.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**LIS 80622 SCIENCE AND TECHNOLOGY INFORMATION SOURCES AND SERVICES 3 Credit Hours**

(Slashed with LIS 60622) Content, bibliographic structure and communication patterns in the sciences with emphasis on pure and applied fields, e.g., mathematics, biology, physics.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**LIS 80623 BUSINESS AND FINANCE INFORMATION SOURCES AND SERVICES 3 Credit Hours**

(Slashed with LIS 60623) Historical development; applications to current business, labor, governmental, educational and sociological information needs; interpretation to executives and others; printed sources and databases.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**LIS 80624 CATALOGING FOR SCHOOL LIBRARIES 3 Credit Hours**

(Slashed with LIS 60624) Organization and administration of print and non-print materials in school libraries. Application of appropriate descriptive cataloging rules, subject headings and classification policies for children's, teen and educational materials K-12.

**Prerequisite:** Doctoral standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**LIS 80625 ENGAGING YOUNG CHILDREN AND FAMILIES 3 Credit Hours**

(Slashed with LIS 60625) Selection and utilization of materials in relation to needs, abilities and interests of the young child.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**LIS 80626 ENGAGING TEENS 3 Credit Hours**

(Slashed with LIS 80626) Selection and utilization of books and materials in relation to needs, abilities and interests of teens.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**LIS 80627 ART AND STORY: THE STUDY OF CHILDREN'S PICTUREBOOKS 3 Credit Hours**

(Slashed with LIS 60627) Engages students in the study and application of art and story in children's picturebooks through the lenses of book history, publishing studies, children's book illustration and storytelling, visual literacy and visual storytelling. Readers of picturebooks are studied as well, from professional readers, like librarians and book reviewers, to picturebook consumers.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**LIS 80628 HUMANITIES INFORMATION SOURCES AND SERVICES 3 Credit Hours**

(Slashed with LIS 60628) Philosophy, literature, fine and performing arts.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**LIS 80629 ENGAGING SCHOOL-AGE CHILDREN 3 Credit Hours**

(Slashed with LIS 60629) Selection and utilization of materials in relation to needs, abilities and interests of school-age children.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**LIS 80630 REFERENCE SOURCES AND SERVICES FOR YOUTH 3 Credit Hours**

(Slashed with LIS 60630) Organization and administration of information sources and information services for children and young adults (K-12). Evaluation, selection and utilization of print and electronic sources.

**Prerequisite:** Doctoral standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**LIS 80631 INTRODUCTION TO DIGITAL PRESERVATION 3 Credit Hours**

(Slashed with LIS 60631) Approaches and standards for preserving and maintaining access to digitized and born-digital text, images, data, audiovisual information, and web resources. Topics include longevity of digital media, selection for preservation; formats and strategies for preservation; preservation metadata; integrity and authenticity of digital materials; establishment and certification of trustworthy digital repositories; risk management; and policy development.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**LIS 80633 DIGITAL CURATION 3 Credit Hours**

(Slashed with LIS 60633) Management and preservation of digital objects and records throughout their lifecycle. Essential technologies and standards for building and maintaining robust, trusted digital repositories. Emphasizes the use and reuse of scholarly data, business and government records, cultural heritage materials, and other digital objects to create resources supporting communities of practice in their work.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**LIS 80635 CULTURAL HERITAGE INFOMATICS 3 Credit Hours**

(Slashed with LIS 60635) Cultural heritage informatics brings a comprehensive, cross-disciplinary approach to supporting the entire lifecycle of cultural heritage information and documentation procedures for the benefit of the preservation, study, and promotion of cultural heritage. The course covers methods of creating descriptions for cultural objects, as well as organizing, delivering, and presenting the cultural heritage (tangible, intangible, and digital) resources in the digital age. The course aims to prepare students for careers focusing on or transcending libraries, archives, museums (LAMs), historical societies, and other cultural institutions by introducing them to the methodologies and technologies commonly used in cultural heritage informatics and can be broadly implemented in LAMs.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**LIS 80636 KNOWLEDGE ORGANIZATION STRUCTURES, SYSTEMS AND SERVICES 3 Credit Hours**

(Slashed with LIS 60636) Introduction to various types of knowledge organization systems, services, and structures (KOS) used in the networked environment. Understanding of the functional philosophical, logical, and linguistic fundamentals of KOS. Explanation of design options, features of KOS, and procedures to be used in the thesaurus, taxonomy and ontology construction.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**LIS 80637 METADATA ARCHITECTURE AND IMPLEMENTATION 3 Credit Hours**

(Slashed with LIS 60637) Principles and theories of metadata development in the digital environment. Main focus is given to the design and applications of metadata schemas for distinct domains and information communities, issues in metadata interoperability, vocabulary control, quality control and evaluation. Examination of international standards, activities and projects with the use of case study approach.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**LIS 80638 DIGITAL LIBRARIES 3 Credit Hours**

(Slashed with LIS 60638) This course introduces a broad set of issues involved in the development and maintenance of digital libraries, including policy development, technology, collection development, project management, user-centered design, digitization, metadata, and interoperability.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**LIS 80639 IMPLEMENTATION OF DIGITAL LIBRARIES 3 Credit Hours**

(Slashed with LIS 60639) Explores issues related to implementation of digital libraries and provides hands-on experience for students to build digital library prototypes (small-scale) with open source software. The major emphasis is on design and implementation of key digital library functions, including building digital collections, defining and creating metadata, indexing, browsing and retrieval, customizing interface, implementing services, encoding and transforming for data exchange, and testing the usability and effectiveness.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**LIS 80640 LIBRARY AUTOMATION 3 Credit Hours**

(Slashed with LIS 60640) Analysis, design and selection of automated library systems. Considers system analysis and requirements, networking technologies, database management systems, multimedia and hypermedia, and client-serving computing. Also, proposals to vendors, contract negotiation, implementation, staffing, training, system maintenance and evaluation.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**LIS 80641 INFORMATION STORAGE AND RETRIEVAL SYSTEMS 3 Credit Hours**

(Slashed with LIS 60641) Fundamentals of information retrieval models and methods, including information storage structures, full-text indexing, structured indexes, search engines and web retrieval, human-computer interaction, and the user's experience, system performance and evaluation.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**LIS 80643 ONLINE REFERENCE SYSTEMS 3 Credit Hours**

(Slashed with LIS 60643) Use of information technologies to search for and retrieve electronic information, primarily through the Internet. Analysis of database structures and electronic records; search principles and heuristics; database system producers; system interfaces; and evaluation of results.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**LIS 80644 INFORMATION SCIENCE 3 Credit Hours**

(Slashed with LIS 60644) Focal areas of information science: information retrieval systems, bibliometrics, citation analysis, systems analysis and evaluation, information technologies, information theory, information architecture, knowledge management and user experience.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**LIS 80645 DATABASE DESIGN AND APPLICATIONS 3 Credit Hours**

(Slashed with LIS 50645) Characteristics and concepts of database systems; different types of database models; conceptual database design and implementation; the relational database model and its application in practice: key issues, principles, and techniques; current database technologies.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**LIS 80649 INDEXING AND ABSTRACTING 3 Credit Hours**

(Slashed with LIS 60649) Principles and methods of manual and computerized indexing and abstracting applied to I&A databases, back-of-book indexes, Web site indexes and sitemaps. Techniques of constructing indexing languages using international standards. Theory and practice of index design for specific formats and subjects. Automation and I&A services in networked environments.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**LIS 80650 INFORMATION POLICY 3 Credit Hours**

(Slashed with LIS 60650) Political, economic, cultural and legal issues regarding the production, distribution, and use of information (print, electronic and Web). Policy-making process, standards and protocols, intellectual property, information economy, impact of computers on access and policy, privacy rights, transnational flow of information and the Internet and the World Wide Web.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter



**LIS 80651 DIGITAL IMAGE PROCESSING AND COLLECTION MANAGEMENT 3 Credit Hours**

(Slashed with LIS 60651) This course is designed to introduce students to the fundamental concepts, terminology, techniques and applications of digital imaging as they relate to the development of digital image collections depicting works found in museum collections, archives, and special collections in libraries. The students will acquire knowledge and skills necessary to design, create and manage digital images of text, graphics, slides, and reproductions of 3-D objects. They will also be introduced to the principles and issues that pertain to the creation and distribution of digital-image archives via image databases and the Web environment.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**LIS 80652 FOUNDATIONS OF RECORDKEEPING IN SOCIETY 3 Credit Hours**

(Slashed with LIS 60652) An introduction to the core principles and practices of recordkeeping and the multiple and complex roles records and archives play in identity, evidence, transparency, memory, accountability, equity, representation and trust in society. This course covers historical and contemporary recordkeeping contexts related to individuals, family, community, organization, corporate, academia and government, as well as traditional, nontextual and digital formats of records and archives.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**LIS 80654 PRESERVATION AND CONSERVATION OF HERITAGE MATERIALS 3 Credit Hours**

(Slashed with LIS 60654) Types and causes of deterioration of various kinds of library, archival, and museum collections; storage and preventive care, preservation through photographic reproduction and digital conversion, and conservation of rare materials.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**LIS 80655 COPYRIGHT: UNDERSTANDING USER RIGHTS AND RESPONSIBILITIES 3 Credit Hours**

(Slashed with LIS 60655) Exploration of advanced copyright topics such as mass digitization, creative arts and other issues in fair use, library, archive and educational uses including the TEACH Act, digital first sale rights, Digital Millennium Copyright Act, and an introduction to copyright reform.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**LIS 80656 LICENSING OF INFORMATION PRODUCTS AND SERVICES 3 Credit Hours**

(Slashed with LIS 60656) Topics related to licensing of information products and services including online contract formation, software licenses (End User License Agreements), database and website terms of service, detailed understanding of common terms and conditions in license agreements and an introduction to music licensing and Creative Commons licensing.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**LIS 80657 THEORY AND METHODS OF ARCHIVAL ACQUISITION, SELECTION AND APPRAISAL 3 Credit Hours**

(Slashed with LIS 60657) This course provides a comprehensive introduction to the theory, methods and traditions employed by records professionals to form and shape archives as societal memory. This course focuses primarily on acquisition, selection, documentation and appraisal theory and methods. Students will also examine contemporary records frameworks and approaches and issues faced by archivists, special collections librarians and manuscript curators employed to identify, evaluate, acquire and dispose of records.

**Prerequisite:** LIS 80652; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**LIS 80661 TECHNICAL SERVICES 3 Credit Hours**

(Slashed with LIS 60661) Principles, problems and current issues of acquiring, processing and preserving conserving materials in libraries and information centers.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**LIS 80665 RARE BOOKS AND SPECIAL COLLECTIONS 3 Credit Hours**

(Slashed with LIS 60665) Study of the theory and practice of rare books and special collections librarianship. Topics to be addressed include identification and description of collections, history of the book, valuation, collection development, preservation, security, access and discovery, promotion and outreach, and administration of collections and resources.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**LIS 80666 ETHICAL CONCERNS OF LIBRARY AND INFORMATION PROFESSIONALS 3 Credit Hours**

(Slashed with LIS 60666) Analysis of ethical concerns of information professionals: codes of ethics, intellectual freedom, free access, privacy, confidentiality, computer issues and relations with management, clients and colleagues.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**LIS 80668 INTERNATIONAL LIBRARIANSHIP AND INFORMATION SERVICES 3 Credit Hours**

(Slashed with LIS 60668) Main theoretical traditions, concepts, and in-depth understanding of international librarianship (library communication on international issues) and comparative librarianship (comparative study of information services in specific contexts) through the study of international cooperation, influences, development aid, international organizations and associations, differences, major issues facing library and information services within their socio-economic, political, and cultural contexts, and innovations to solve these issues across the world.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**LIS 80691 SEMINAR IN LIBRARY SCIENCE 1-3 Credit Hours**

(Slashed with LIS 60691) Advanced research by small groups of students who are qualified to examine problems of certain special areas.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Seminar

**Contact Hours:** 1-3 lecture

**Grade Mode:** Standard Letter

**LIS 80694 COLLEGE TEACHING OF LIBRARY SCIENCE 2,3 Credit Hours**

(Repeatable for credit) Staff training and experience in college teaching.

**Prerequisite:** Doctoral standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 2-3 lecture

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**LIS 80695 SPECIAL PROBLEMS IN LIBRARY SCIENCE 1-10 Credit Hours**

(Repeatable for credit) (Slashed with LIS 60695) Individual research at high levels of specialization.

**Prerequisite:** Doctoral standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 1-10 lecture

**Grade Mode:** Standard Letter-IP

**LIS 80700 FOUNDATIONS OF MUSEUM STUDIES 3 Credit Hours**

(Slashed with LIS 60700) Intended for those interested in learning more about museums or specializing in museum studies. The goal is to introduce students to various aspects of all types of museums as dynamic networked systems positioned around objects, people and ideas. Covers history and types of museums, the roles of objects and ideas, structure, function, museum workers and users, and the purpose and future of museums.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**LIS 80701 MUSEUM COLLECTIONS 3 Credit Hours**

(Slashed with LIS 60701) Introduction to the organization, care and meaning of objects held in museum collections. Through both theoretical and practical concepts, basic collection management and registration skills are introduced. In conjunction, students explore the meanings made of museum objects.

**Prerequisite:** LIS 60700 or LIS 80700; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**LIS 80702 MUSEUM COMMUNICATION 3 Credit Hours**

(Slashed with LIS 60702) Museums communicate to the public in a multitude of ways: interpretation, exhibition, publication, educational programming and using a web presence. Introduces important concepts, theories, applications, processes and technology used in museum interpretation and communication. Students are provided with a balance of practical techniques with thoughtful conceptual exploration.

**Prerequisite:** LIS 60700 or LIS 80700; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**LIS 80703 MUSEUM USERS 3 Credit Hours**

(Slashed with LIS 60703) Families, individuals, and students visit museums and community institutions for a variety of purposes including leisure, education, and curiosity. Introduction to the research and theory on museum user experience. Inquiry involves examining notions of learning, engagement, and transformative experiences of users, characteristics of users, and the social dynamics of the museum experience. In addition, reviews several programmatic techniques and methods used in museums to increase engagement and learning for patrons.

**Prerequisite:** LIS 60700 or LIS 80700; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**LIS 80704 THE MUSEUM SYSTEM 3 Credit Hours**

(Slashed with LIS 60704) Museums are by their very nature complex and dynamic systems composed of people, objects and activities. Comprised of an "outer" subsystem and an "inner" subsystem, museum as a whole functions as an organic body, with all of its parts working together to function successfully. This system exists within a larger landscape, one filled increasingly with new types of interactions, unlimited access, and constant feedback. This course explores this holistic system from both practical and conceptual viewpoints, examining the role of administration throughout the system as well as considering current issues such as sustainability, advocacy and relationships with community and users add to an overall understanding of the museum system.

**Prerequisite:** LIS 60700 or LIS 80700; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**LIS 80705 MUSEUM ORIGINS 3 Credit Hours**

(Slashed with LIS 60705) While the collecting of objects can be found as far back as ancient times in various parts of the world, the birth of the modern museum finds its roots in Europe. In the context of today's world, students will "go back in time" to understand the origins of western museums and the creation, use, and meaning of publicly shared collections over time. Students will explore the history of the modern museum and spend time visiting actual sites and collections that played a role in this history. Exploring the past in this way is geared specifically to help today's museum workers gain a better understanding of their own role and purpose in their community, society and nation.

**Prerequisite:** Doctoral standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**LIS 81095 SELECTED TOPICS IN LIBRARY SCIENCE 1-3 Credit Hours**  
(Repeatable for credit) (Slashed with LIS 61095) Offered irregularly as resources and or opportunities permit. Topics will be announced in the Schedule of Classes.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 1-3 lecture

**Grade Mode:** Standard Letter

**LIS 81096 INDIVIDUAL INVESTIGATION 1-3 Credit Hours**  
(Repeatable for credit) Individual investigation for doctoral level students.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Individual Investigation

**Contact Hours:** 1-3 other

**Grade Mode:** Standard Letter-IP

## User Experience Design (UXD)

**UXD 20001 INTRODUCTION TO USER EXPERIENCE DESIGN 3 Credit Hours**

Students explore the context within which User Experience Design exists and the fundamental research that explains human behavior and how that research informs design decisions. Students are also introduced to the basic design processes and deliverables employed by UXD professionals.

**Prerequisite:** Advertising, communication studies, digital media production, digital sciences, journalism, photography, public relations, user experience design or visual communication design major or minor.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**UXD 40101 INFORMATION ARCHITECTURE 3 Credit Hours**

Introduction to the fundamental concepts and practices of information architecture (IA). Students develop practical skills for comparing, analyzing, critiquing and design of IA. Major topics include organization, navigation, labeling and search systems for web and mobile architectures.

**Prerequisite:** UXD 20001; and user experience design minor.

**Schedule Type:** Laboratory, Lecture, Combined Lecture and Lab

**Contact Hours:** 2 lecture, 2 lab

**Grade Mode:** Standard Letter

**UXD 40104 USABILITY 3 Credit Hours**

Provides a conceptual and practical overview of the processes and methods of usability testing such as development of test protocols, goals, facilitation, analysis and reporting of results. Actual usability tests are performed, using quantitative and qualitative methods and employing emerging software tools to facilitate data collection and analysis.

**Prerequisite:** UXD 20001; and user experience design minor.

**Schedule Type:** Laboratory, Lecture, Combined Lecture and Lab

**Contact Hours:** 2 lecture, 2 lab

**Grade Mode:** Standard Letter

**UXD 41095 SPECIAL TOPICS IN USER EXPERIENCE DESIGN 1-3 Credit Hours**

(Repeatable for credit) Topics could include current or emerging issues in user experience design. Topics will be announced in schedule of classes. Offered irregularly as resources and opportunities permit.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 1-3 lecture

**Grade Mode:** Standard Letter

**UXD 41096 INDIVIDUAL INVESTIGATION IN USER EXPERIENCE DESIGN 1-3 Credit Hours**

(Repeatable for credit) Research or individual investigation in areas not covered in the existing curriculum for baccalaureate level students at or above the junior level.

**Prerequisite:** Special approval.

**Schedule Type:** Individual Investigation

**Contact Hours:** 3-9 other

**Grade Mode:** Standard Letter-IP

**UXD 60001 USER EXPERIENCE DESIGN PRINCIPLES AND CONCEPTS 3 Credit Hours**

(Slashed with UXD 80001) Students explore the context in which User Experience Design exists and the various methods employed by designers in various fields related to design research, the generation of ideas and implementation of designs. Students are introduced to methods of design evaluation and to the conceptual framework of the related curricula.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**UXD 60002 USER EXPERIENCE DESIGN IN PRACTICE 3 Credit Hours**

Students learn and employ methods for engaging in creative problem solving. Introduce students to design research methods and current research on human behavior as it applies to user experience design. A core set of design deliverables are examined. Students begin to develop individual portfolio materials.

**Prerequisite:** Graduate standing.

**Pre/corequisite:** UXD 60001.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**UXD 60101 INFORMATION ARCHITECTURE I 3 Credit Hours**

(Slashed with UXD 80101) Introduction to the fundamental concepts and practices of information architecture (IA). Students develop practical skills for comparing, analyzing, critiquing and designing information architectures. Major topics include organization, navigation, labeling, search and other core IA concepts. Students learn to create blueprints, wireframes, process flows and other documents used to communicate an information architecture design.

**Prerequisite:** UXD 60001 and UXD 60002 with a minimum C grade; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**UXD 60102 PRINCIPLES OF INTERACTION 3 Credit Hours**

This course provides students with an overview of interaction design principles and concepts. It is divided into five modules.

**Prerequisite:** UXD 60001 and UXD 60002; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**UXD 60103 RESEARCHING THE USER EXPERIENCE I 3 Credit Hours**

(Slashed with UXD 80103) Design research seeks to understand user needs, goals and tasks. Deals with research methods for human-centered design of information-rich artifacts and experiences. Covers interviews, surveys, diary studies and other methods applicable to the formative stages of the design process. Students learn to distill research findings into audience segments, user profiles, personas, scenarios and other documents that model user behavior.

**Prerequisite:** UXD 60001 and UXD 60002 with a minimum C grade; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**UXD 60104 USABILITY I 3 Credit Hours**

(Slashed with UXD 80104) Provides a conceptual and practical overview of the processes and methods of usability testing, such as Think Aloud protocols, performance measurements and eye-tracking analysis. Actual usability testing is performed, using quantitative and qualitative methods and employing current and emerging software tools to facilitate data collection and analysis.

**Prerequisite:** UXD 60001 and UXD 60002; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**UXD 60106 CONTENT STRATEGY I 3 Credit Hours**

(Slashed with UXD 80106) Introduces the field of content strategy and its relationship to user experience design. Includes history and practices of content strategy, how to analyze user needs for content, the production of written materials related to content strategy and content audits and governance models. This course is the conceptual basis behind content strategy.

**Prerequisite:** UXD 60001 and UXD 60002; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**UXD 60111 INFORMATION ARCHITECTURE II 3 Credit Hours**

(Slashed with UXD 80111) This course will cover current topics in architecting for a changing web environment. Conceptual and technical aspects of Web 2.0 and Rich Internet Applications (RIA) have created the need for different types of design deliverables and usability considerations. In order to understand how to architect for Web 2.0, we must come to an understanding of what it is and how it works at least at a basic level. In addition, design tools to aid information architects are becoming more advanced and can aid IAs, making them more effective and efficient. These tools will be covered in depth.

**Prerequisite:** UXD 60001 and UXD 60002; and graduate standing.

**Pre/corequisite:** UXD 60101.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**UXD 60112 INTERACTION IN PRACTICE 3 Credit Hours**

This course provides students with experience planning, designing and prototyping interactions. Students will learn common interaction design (IxD) methodologies, what is expected of interaction designers, and what deliverables a designer typically provides. Students will practice interaction design by specifying content organization, hierarchy and user journeys for a mobile application in wireframe form. Students will create a functional prototype, building in the basic functionality needed for navigation and process funnels. Finally, students will test their prototypes formally.

**Prerequisite:** UXD 60001 and UXD 60002; and graduate standing.

**Pre/corequisite:** UXD 60102.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**UXD 60113 RESEARCHING USER EXPERIENCE II 3 Credit Hours**

(Slashed with UXD 80113) In order to design and develop effective user interfaces, task analysis process and theory are explored and applied via principles drawn from anthropology, ethnography, cognitive psychology, document and instruction systems design and market research. Practical techniques and methodologies are presented to improve interface design through all phases of the design process.

**Prerequisite:** UXD 60001 and UXD 60002; and graduate standing.

**Pre/corequisite:** UXD 60103.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**UXD 60114 USABILITY II 3 Credit Hours**

(Slashed with UXD 80114) Provides students with an understanding of qualitative and quantitative research methods appropriate for conducting advanced studies of human interaction with computers. In addition, students learn how to evaluate, purchase, implement and operate equipment for usability labs in a manner consistent with research methods.

**Prerequisite:** UXD 60001 and UXD 60002; and graduate standing.

**Pre/corequisite:** UXD 60104.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**UXD 60117 USER EXPERIENCE DESIGN LEADERSHIP 3 Credit Hours**

As User Experience Design professionals are increasingly sought out not only to solve specific experience problems but also for business strategies, this course will teach students business terms and principles to become viable leaders within their organizations. Students will learn business concepts like market forces, business models innovation and design, basic accounting and finance, and how to interact with their colleagues as leaders.

**Prerequisite:** UXD 60001 and UXD 60002; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter



**UXD 60118 ACCESSIBILITY EVALUATION AND UNIVERSAL DESIGN**  
**3 Credit Hours**

This course will provide user experience researchers and designers with the skills to evaluate software and hardware for accessibility, as well as an understanding of the principles of universal design and how they guide and influence the design of digital experiences.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**UXD 60691 SEMINAR IN USER EXPERIENCE DESIGN** 1-3 Credit Hours

(Repeatable for credit) Advanced research by students who are qualified to examine problems of certain special areas related to concentrations of study in user experience design.

**Prerequisite:** Graduate standing.

**Schedule Type:** Seminar

**Contact Hours:** 1-3 other

**Grade Mode:** Standard Letter

**UXD 60693 VARIABLE TITLE WORKSHOP IN USER EXPERIENCE DESIGN** 1-3 Credit Hours

(Repeatable for credit) Intensive examination of special topics of interest to those involved in user experience design. Maximum number of workshop credits for the MS-UXD major is 4 semester hours.

**Prerequisite:** Graduate standing.

**Schedule Type:** Workshop

**Contact Hours:** 1-3 other

**Grade Mode:** Satisfactory/Unsatisfactory

**UXD 60792 ELECTIVE INTERNSHIP IN USER EXPERIENCE DESIGN**  
**2-3 Credit Hours**

Supervised work experience in user experience design of a professional nature of not less than 100 clock hours (for 2 credit hours) or 150 clock hours (for 3 credit hours) with directed readings and preparation of a paper.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Practical Experience

**Contact Hours:** 6-9 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**UXD 61095 SPECIAL TOPICS IN USER EXPERIENCE DESIGN** 1-3 Credit Hours

(Repeatable for credit) Offered irregularly as resources and or opportunities permit. Topics could include current or emerging issues in user experience design.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 1-3 lecture

**Grade Mode:** Standard Letter

**UXD 61096 INDIVIDUAL INVESTIGATION IN USER EXPERIENCE DESIGN** 1-3 Credit Hours

(Repeatable for credit) Research or individual investigation in areas not covered by the existing curriculum for master's level students. Maximum 6 credit towards the user experience design major within the master of science degree.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Individual Investigation

**Contact Hours:** 3-9 other

**Grade Mode:** Standard Letter-IP

**UXD 66080 PROFESSIONAL PORTFOLIO DESIGN AND ASSESSMENT**  
**3 Credit Hours**

Students complete the assembly and evaluation of their work throughout the User Experience Design program in the form of a professional portfolio that will be used in efforts to gain employment or freelance work. Evaluation is done through critique by User Experience Design faculty and by peers.

**Prerequisite:** LIS 60636, UXD 60001, UXD 60002, UXD 60101, UXD 60104, UXD 60106; and a minimum 3.000 overall GPA; and graduate standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**UXD 66092 MASTER'S INTERNSHIP IN USER EXPERIENCE DESIGN**  
**3 Credit Hours**

Supervised work experience of an advanced professional nature that concentrates on developing skills in areas of user experience design and integrates their knowledge from all UXD courses and experiences. Students must have completed a minimum of 30 credit hours towards the user experience design major prior to registration.

**Prerequisite:** LIS 60636, UXD 60001, UXD 60002, UXD 60101, UXD 60103, UXD 60104 and UXD 60106; and minimum 3.000 overall GPA; and graduate standing; and special approval.

**Schedule Type:** Practical Experience

**Contact Hours:** 9 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**UXD 66098 MASTERS PROJECT IN USER EXPERIENCE DESIGN** 3 Credit Hours

Provides a means for the application of the knowledge, research and competencies learned through study in user experience design to the development of an information system, product, setting or service. Cumulative GPA of 3.000 is required prior to enrolling in the course. Students must have completed 30 credit hours towards the MS-UXDE program prior to registration.

**Prerequisite:** LIS 60636, UXD 60001, UXD 60002, UXD 60101, UXD 60103, UXD 60104 and UXD 60106; and minimum 3.000 overall GPA; and graduate standing; and special approval.

**Schedule Type:** Master's Project

**Contact Hours:** 3 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**UXD 66198 MASTER'S RESEARCH PAPER IN USER EXPERIENCE DESIGN** 3 Credit Hours

Under the advisement of a faculty member, students will complete a research paper that serves as a culminating experience for the M.S.-UXD degree. Students must have completed 30 credit hours towards the MS-UXDE program prior to registration.

**Prerequisite:** LIS 60636, UXD 60001, UXD 60002, UXD 60101, UXD 60103, UXD 60106; and minimum 3.000 overall GPA; and graduate standing; and special approval.

**Schedule Type:** Master's Project

**Contact Hours:** 3 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP



**UXD 66199 THESIS I 2-6 Credit Hours**

Thesis students must register for a total of 6 hours, 2 to 6 hours in a single semester distributed over several semesters if desired. Students must have completed 30 credit hours towards the MS-UXDE program prior to registration.

**Prerequisite:** LIS 60636, UXD 60001, UXD 60002, UXD 60101, UXD 60103, UXD 60104 and UXD 60106; a minimum 3.000 overall GPA; and graduate standing.

**Schedule Type:** Masters Thesis

**Contact Hours:** 2-6 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**UXD 66299 THESIS II 2 Credit Hours**

Thesis students must continue registration each semester until all degree requirements are met.

**Prerequisite:** UXD 66199; and graduate standing; and special approval.

**Schedule Type:** Masters Thesis

**Contact Hours:** 2 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**UXD 80001 USER EXPERIENCE DESIGN PRINCIPLES AND CONCEPTS 3 Credit Hours**

(Slashed with UXD 60120) Students explore the context in which User Experience Design exists and the various methods employed by designers in various fields related to design research, the generation of ideas and implementation of designs. Students are introduced to methods of design evaluation and to the conceptual framework of the related curricula.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**UXD 80002 USER EXPERIENCE DESIGN IN PRACTICE 3 Credit Hours**

(Slashed with UXD 60002) Students learn and employ methods for engaging in creative problem solving. Introduce students to design research methods and current research on human behavior as it applies to user experience design. A core set of design deliverables are examined. Students begin to develop individual portfolio materials.

**Prerequisite:** UXD 80001 with a minimum C grade; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**UXD 80101 INFORMATION ARCHITECTURE I 3 Credit Hours**

(Slashed with UXD 60101) Introduction to the fundamental concepts and practices of information architecture (IA). Students develop practical skills for comparing, analyzing, critiquing and designing information architectures. Major topics include organization, navigation, labeling, search and other core IA concepts. Students learn to create blueprints, wireframes, process flows and other documents used to communicate an information architecture design.

**Prerequisite:** UXD 80001 and UXD 80002 with a minimum C grade; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**UXD 80103 RESEARCHING THE USER EXPERIENCE I 3 Credit Hours**

(Slashed with UXD 60103) Design research seeks to understand user needs, goals and tasks. Deals with research methods for human-centered design of information-rich artifacts and experiences. Covers interviews, surveys, diary studies and other methods applicable to the formative stages of the design process. Students learn to distill research findings into audience segments, user profiles, personas, scenarios and other documents that model user behavior.

**Prerequisite:** UXD 80001 and UXD 80002 with a minimum C grade; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**UXD 80104 USABILITY I 3 Credit Hours**

(Slashed with UXD 60104) Provides a conceptual and practical overview of the processes and methods of usability testing, such as Think Aloud protocols, performance measurements and eye-tracking analysis. Actual usability testing is performed, using quantitative and qualitative methods and employing current and emerging software tools to facilitate data collection and analysis.

**Prerequisite:** UXD 80001 and UXD 80002; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**UXD 80106 CONTENT STRATEGY I 3 Credit Hours**

(Slashed with UXD 60106) Introduces the field of content strategy and its relationship to user experience design. Includes history and practices of content strategy, how to analyze user needs for content, the production of written materials related to content strategy, and content audits and governance models. This course is the conceptual basis behind content strategy.

**Prerequisite:** UXD 80001; and UXD 80002; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**UXD 80111 INFORMATION ARCHITECTURE II 3 Credit Hours**

(Slashed with UXD 60111) Web site design from emerging directions, such as the separation of content from presentation, with e.g., the use of Cascading Style Sheets (CSS) for formatting web-based documents. The course includes considerations of making web sites compliant with federal regulations or other standards and validation for various markup guidelines.

**Prerequisite:** Minimum C grade in UXD 80001, UXD 80002 and UXD 80101; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**UXD 80113 RESEARCHING THE USER EXPERIENCE II 3 Credit Hours**

(Slashed with UXD 60113) In order to design and develop effective user interfaces, task analysis process and theory are explored and applied via principles drawn from anthropology, ethnography, cognitive psychology, document and instruction systems design and market research. Practical techniques and methodologies are presented to improve interface design through all phases of the design process.

**Prerequisite:** Minimum C grade in UXD 80001, UXD 80002 and UXD 80103; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**UXD 80114 USABILITY II 3 Credit Hours**

(Slashed with UXD 60114) Provides students with an understanding of qualitative and quantitative research methods appropriate for conducting advanced studies of human interaction with computers. In addition, students learn how to evaluate, purchase, implement and operate equipment for usability labs in a manner consistent with research methods.

**Prerequisite:** UXD 80001, UXD 80002 and UXD 80104; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**UXD 80691 SEMINAR IN USER EXPERIENCE DESIGN 1-3 Credit Hours**

(Repeatable for credit) Advanced research by students who are qualified to examine problems of certain special areas related to concentrations of study in user experience design.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Seminar

**Contact Hours:** 1-3 other

**Grade Mode:** Standard Letter

**UXD 81095 SPECIAL TOPICS IN USER EXPERIENCE DESIGN 1-3 Credit Hours**

(Repeatable for credit) Offered irregularly as resources and or opportunities permit. Topics could include current or emerging issues in user experience design.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 1-3 lecture

**Grade Mode:** Standard Letter

**UXD 81096 INDIVIDUAL INVESTIGATION IN USER EXPERIENCE DESIGN 1-3 Credit Hours**

Research or individual investigation for doctoral level students.

**Prerequisite:** Doctoral standing; and special approval.

**Schedule Type:** Individual Investigation

**Contact Hours:** 3-9 other

**Grade Mode:** Standard Letter-IP

## Health Informatics - Graduate Certificate

**College of Communication and Information**

School of Information

314 University Library

Kent Campus

330-672-2782

iSchool@kent.edu

www.kent.edu/iSchool

### Description

The post-baccalaureate certificate in Health Informatics prepares graduates to assume entry level, mid-career or senior level positions within healthcare systems. Based on the students' experience, the certificate is customizable to their interests and career goals within health informatics venues.

**Fully Offered At:**

- Online

### Admission Requirements

- Bachelor's degree from an accredited college or university
- Official transcript(s)
- Résumé
- Goal statement
- Three letters of recommendation

For more information about graduate admissions, please visit the Graduate Studies website.

### Program Requirements

#### Certificate Requirements

Code	Title	Credit Hours
<b>Certificate Requirements</b>		
HI 60401	HEALTH INFORMATICS MANAGEMENT	3
HI 60403	HEALTH INFORMATION SYSTEMS	3
Certificate Electives, choose from the following:		12
HI 60402	LEGAL ISSUES IN HEALTH INFORMATICS	
HI 60410	HEALTH RECORDS MANAGEMENT	
HI 60411	CLINICAL ANALYTICS	
HI 60412	CLINICAL DECISION SUPPORT	
HI 60413	CHANGE MANAGEMENT IN HEALTH INFORMATICS	
HI 60414	HUMAN FACTORS AND USABILITY IN HEALTH INFORMATICS	
HI 60415	HEALTH INFORMATICS INQUIRY AND ASSESSMENT	
HI 60416	HEALTH INFORMATICS ISSUES: POLICY, POLITICS AND ETHICS	
HI 60417	PUBLIC HEALTH INFORMATICS	
HI 60418	CLINICAL ANALYTICS II	
HI 60636	STANDARDIZED TERMINOLOGIES IN HEALTHCARE	
HI 60691	SEMINAR IN HEALTH INFORMATICS	
HI 60792	ELECTIVE INTERNSHIP IN HEALTH INFORMATICS	
HI 61095	SPECIAL TOPICS IN HEALTH INFORMATICS	
HI 61096	INDIVIDUAL INVESTIGATION IN HEALTH INFORMATICS	
Advisor Approved College of Communication and Information Electives		
Minimum Total Credit Hours:		18

### Graduation Requirements

Minimum Certificate GPA	Minimum Overall GPA
3.000	

- Students enrolled in the certificate can apply for admission to the master's degree and apply a maximum of 12 credit hours taken for the certificate program toward the master's program requirements.

# Health Informatics - M.S.

## College of Communication and Information

School of Information  
314 University Library  
Kent Campus  
330-672-2782  
iSchool@kent.edu  
www.kent.edu/iSchool

## Description

The Master of Science degree in Health Informatics prepares graduates for careers in managerial, analytical, consultative and executive roles working with healthcare systems and clinicians.

Health informatics is the science of evaluating, implementing and utilizing technology to manage all information related to the patient care delivery process: clinical, financial, technological and enterprise-wide. Three major components comprise the health informatics discipline: (1) the information systems component focuses on such issues as information systems analysis, design, implementation, management and leadership; (2) the informatics component is concerned with the study of structure, function and transfer of information, socio-technical aspects of health computing and human-computer interaction; and (3) the information technology component focuses on computer networks, database and systems administration, security and programming.

The informatics field also draws contributions from computer science, the clinical sciences, social and organizational influences and business practices.

## Fully Offered At:

- Online

## Admission Requirements

- Bachelor's degree from an accredited college or university for unconditional admission
- Minimum 3.000 undergraduate GPA on a 4.000 point scale for unconditional admission
  - Applicants who do not meet the minimum 3.000 GPA requirement must submit a statement that addresses the circumstances that contributed to the GPA and preparation for success in graduate study. Applicants should include recent professional achievements that indicate an ability to perform at a higher academic level to be considered for conditional admission to the program.
- Official transcript(s)
- Résumé
- Goal statement
- Three letters of recommendation
- English language proficiency - all international students must provide proof of English language proficiency (unless they meet specific exceptions) by earning one of the following:
  - Minimum 587 TOEFL PBT score (paper-based version)
  - Minimum 94 TOEFL IBT score (Internet-based version)
  - Minimum 82 MELAB score
  - Minimum 7.0 IELTS score

- Minimum 65 PTE score
- Minimum 120 Duolingo English Test score

For more information about graduate admissions, please visit the Graduate Studies website. For more information on international admission, visit the Office of Global Education website.

<sup>1</sup> In calculating total GPA, all grades from all courses taken at relevant level (bachelor's or master's) from all institutions are counted.

## Program Learning Outcomes

Graduates of the program will be able to:

- Reconcile the needs of clinical and non-clinical users of health information systems utilizing workflow analysis, systems analysis and project management principles.
- Analyze collected data of health information systems, utilizing principles of data mining, statistics and clinical analytics.
- Manage the implementation of health information systems in multiple health care venues using principles of organizational dynamics and change management.
- Facilitate communication between clinical and non-clinical users of health information systems.
- Successfully obtain the credential of Certified Associate in Health Information Systems.

## Program Requirements

### Major Requirements

Code	Title	Credit Hours
<b>Major Requirements</b>		
HI 60401	HEALTH INFORMATICS MANAGEMENT	3
HI 60402	LEGAL ISSUES IN HEALTH INFORMATICS	3
HI 60403	HEALTH INFORMATION SYSTEMS	3
HI 60410	HEALTH RECORDS MANAGEMENT	3
HI 60411	CLINICAL ANALYTICS	3
HI 60414	HUMAN FACTORS AND USABILITY IN HEALTH INFORMATICS	3
HI 60636	STANDARDIZED TERMINOLOGIES IN HEALTHCARE	3
Major Electives, choose from the following:		12
EMAT 51510	PROJECT MANAGEMENT AND TEAM DYNAMICS	
HI 60412	CLINICAL DECISION SUPPORT	
HI 60413	CHANGE MANAGEMENT IN HEALTH INFORMATICS	
HI 60415	HEALTH INFORMATICS INQUIRY AND ASSESSMENT	
HI 60416	HEALTH INFORMATICS ISSUES: POLICY, POLITICS AND ETHICS	
HI 60417	PUBLIC HEALTH INFORMATICS	
HI 60691	SEMINAR IN HEALTH INFORMATICS	
HI 60792	ELECTIVE INTERNSHIP IN HEALTH INFORMATICS	
HI 61095	SPECIAL TOPICS IN HEALTH INFORMATICS	
HI 61096	INDIVIDUAL INVESTIGATION IN HEALTH INFORMATICS	
KM 60301	FOUNDATIONAL PRINCIPLES OF KNOWLEDGE MANAGEMENT	

KM 60311	BUSINESS PROCESS MANAGEMENT	
KM 60370	SEMANTIC ANALYSIS METHODS AND TECHNOLOGIES	
UXD 60101	INFORMATION ARCHITECTURE I	
UXD 60104	USABILITY I	
Knowledge Management (KM) Courses <sup>1</sup>		
Library and Information Science (LIS) Courses <sup>1</sup>		
User Experience Design (UXD) Courses <sup>1</sup>		
Culminating Requirement, choose from the following:		3-6
HI 66092	MASTER'S INTERNSHIP IN HEALTH INFORMATICS	
HI 66098	MASTER'S PROJECT IN HEALTH INFORMATICS	
HI 66198	MASTER'S RESEARCH PAPER IN HEALTH INFORMATICS	
HI 66199	THESIS I	
Minimum Total Credit Hours:		36

<sup>1</sup> With advisor approval, students may take a maximum 6 credit hours of KM, LIS and/or UXD courses, or other Kent State courses.

## Knowledge Management - M.S.

### College of Communication and Information

School of Information  
314 University Library  
Kent Campus  
330-672-2782  
iSchool@kent.edu  
www.kent.edu/iSchool

## Description

The Master of Science degree in Knowledge Management prepares professionals to serve as leaders in all types of organizations who can assess and evaluate organizations on knowledge management principles, including culture, learning, communities and maturity. Graduates will be able to build strategy for effective knowledge management for organizations.

The skills and tools required to manage a knowledge organization build upon, but are different from, those required to manage an industrial-era organization. These new skills and tools are found in the emerging domain of knowledge management. Knowledge management organizations of all types, in all sectors of the economy, face a growing need for knowledge management professionals. In fact, knowledge organizations are created and sustained by knowledge management professionals working side-by-side with corporate executives, business and subject matter experts. A knowledge organization works smarter at the organizational, the community and the individual level because knowledge management professionals envision and strategically manage the organization's knowledge, design knowledge architectures and build technologies that enable the organization to work smarter. and facilitate knowledge management on a daily basis.

Students in the program learn principles, values, assessment and best practices from their instructors and fellow students, many of whom are also professionals working in knowledge management. Through courses and internships, students are provided real-world, practical experience.

## Fully Offered At:

- Online

## Admission Requirements

- Bachelor's degree from an accredited college or university for unconditional admission
- Minimum 3.000 undergraduate GPA on a 4.000 point scale for unconditional admission<sup>1</sup>
- Official transcript(s)
- GRE scores if total GPA is below 3.0 in highest completed degree<sup>1</sup>
- Resume
- Goal statement
- Three letters of recommendation
- English language proficiency - all international students must provide proof of English language proficiency (unless they meet specific exceptions) by earning one of the following:
  - Minimum 587 TOEFL PBT score (paper-based version)
  - Minimum 94 TOEFL IBT score (Internet-based version)
  - Minimum 82 MELAB score
  - Minimum 7.0 IELTS score
  - Minimum 65 PTE score
  - Minimum 120 Duolingo English Test score

For more information about graduate admissions, please visit the Graduate Studies website. For more information on international admission, visit the Office of Global Education website.

<sup>1</sup> In calculating total GPA, all grades from all courses taken at relevant level (bachelor's or master's) from all institutions are counted. Effective Spring 2021, applicants who do not meet the minimum 3.000 GPA requirement must submit a statement that addresses the circumstances that contributed to the GPA and preparation for success in graduate study. Applicants should include recent professional achievements that indicate an ability to perform at a higher academic level to be considered for conditional admission to the program.

## Program Learning Outcomes

Graduates of the program will be able to:

1. Identify and apply principles of knowledge management in all types of organizations.
2. Assess and evaluate organizations on knowledge management principles including, culture, learning, communities and maturity.
3. Build a strategy for effective knowledge management for individual organizations.

## Program Requirements

### Major Requirements

Code	Title	Credit Hours
<b>Major Requirements</b>		
KM 60301	FOUNDATIONAL PRINCIPLES OF KNOWLEDGE MANAGEMENT	3
KM 60303	KNOWLEDGE ASSESSMENT AND EVALUATION	3
KM 60304	THE INFORMATION AND KNOWLEDGE ECONOMY	3

KM 60305	COMMUNITIES OF PRACTICE	3
KM 60307	ORGANIZATIONAL LEARNING	3
LIS 60636	KNOWLEDGE ORGANIZATION STRUCTURES, SYSTEMS AND SERVICES	3
Major Electives, choose from the following:		15
KM 60310	INTELLECTUAL CAPITAL MANAGEMENT	
KM 60311	BUSINESS PROCESS MANAGEMENT	
KM 60312	BUSINESS INTELLIGENCE-COMPETITIVE INTELLIGENCE	
KM 60315	FOUNDATIONS OF DOCUMENT MANAGEMENT	
KM 60316	ORGANIZATIONAL CULTURE ASSESSMENT	
KM 60340	BUSINESS NARRATIVE AND STORYTELLING	
KM 60370	SEMANTIC ANALYSIS METHODS AND TECHNOLOGIES	
KM 60691	SEMINAR IN KNOWLEDGE MANAGEMENT	
KM 60792	ELECTIVE INTERNSHIP IN KNOWLEDGE MANAGEMENT	
KM 61095	SPECIAL TOPICS IN KNOWLEDGE MANAGEMENT	
KM 61096	INDIVIDUAL INVESTIGATION IN KNOWLEDGE MANAGEMENT	
Health Informatics (HI) Courses <sup>1</sup>		
Knowledge Management (KM) Courses <sup>1</sup>		
Library and Information Science (LIS) Courses <sup>1</sup>		
User Experience Design (UXD) Courses <sup>1</sup>		
Culminating Requirement, choose from the following:		3-6
KM 66092	MASTER'S INTERNSHIP IN KNOWLEDGE MANAGEMENT	
KM 66098	MASTER'S PROJECT IN KNOWLEDGE MANAGEMENT	
KM 66198	MASTER'S RESEARCH PAPER IN KNOWLEDGE MANAGEMENT	
KM 66199	THESIS I	
Minimum Total Credit Hours:		36

<sup>1</sup> Students may take a maximum 6 credit hours of HI, LIS and/or UXD courses.

## Library and Information Science - M.L.I.S.

### College of Communication and Information

School of Information  
314 University Library  
Kent Campus  
330-672-2782  
iSchool@kent.edu  
www.kent.edu/iSchool

## Description

The Master of Library and Information Science degree prepares students for professional positions in public, academic, special and school libraries; archives; museums; and other types of information agencies, organizations and companies. Many M.L.I.S. graduates go on to positions in other areas of the information field besides libraries — in research, for example, or publishing, information management, competitive business intelligence and more. An accredited M.L.I.S. degree is the

basic requirement for professional employment in most libraries and information centers.

Students can concurrently pursue a dual degree option with the Master of Business Administration degree. Each program makes an independent admission decision. For further information about the dual degree program, see the specific program section in this catalog.

### Fully Offered At:

- Online

## Accreditation

American Library Association

## Admission Requirements

- Bachelor's degree from an accredited college or university for unconditional admission
- Minimum 3.000 undergraduate GPA on a 4.000 point scale for unconditional admission
- Official transcript(s)
- GRE scores if total GPA is below 3.0 in highest completed degree <sup>1</sup>
- Résumé or curriculum vita
- Student Profile Form
- Exception statement (addressing circumstances and readiness for graduate education)
- Application Essay
- Three letters of recommendation
- English language proficiency - all international students must provide proof of English language proficiency (unless they meet specific exceptions) by earning one of the following:
  - Minimum 587 TOEFL PBT score (paper-based version)
  - Minimum 94 TOEFL IBT score (Internet-based version)
  - Minimum 82 MELAB score
  - Minimum 7.0 IELTS score
  - Minimum 65 PTE score
  - Minimum 120 Duolingo English Test score

For more information about graduate admissions, please visit the Graduate Studies admission website. For more information on international admission, visit the Office of Global Education's admission website.

<sup>1</sup> In calculating the total GPA, all grades from all courses taken at relevant level (baccalaureate or master's) from all institutions are required.

## Program Learning Outcomes

Graduates of this program will be able to:

1. Apply the field's foundational theories, principles, values, ethics and skills to everyday practice.
2. Critique and synthesize research and identify appropriate research methodologies to solve problems in the field.
3. Analyze and engage in the changing cultural, educational and social roles and responsibilities of librarians/information professionals and the environments they work in within the global society.



- Evaluate systems and technologies relevant to a particular information context.
- Identify needs and connect individuals and communities with information that engages and empowers them.

## Program Requirements

### Major Requirements

Code	Title	Credit Hours
<b>Major Requirements</b>		
LIS 60010	THE INFORMATION LANDSCAPE	3
LIS 60020	INFORMATION ORGANIZATION	3
LIS 60030	PEOPLE IN THE INFORMATION ECOLOGY	3
LIS 60040	INFORMATION INSTITUTIONS AND PROFESSIONS	3
LIS 60050	RESEARCH AND ASSESSMENT IN LIBRARY AND INFORMATION SCIENCE	3
LIS 60280	MASTER'S PORTFOLIO IN LIBRARY AND INFORMATION SCIENCE	1
Major Electives, choose from the following:		21
Health Informatics (HI) Elective Courses <sup>1</sup>		
Knowledge Management (KM) Elective Courses <sup>1</sup>		
Library and Information Science (LIS) Elective Courses		
User Experience Design (UXD) Elective Courses <sup>1</sup>		
Minimum Total Credit Hours:		37

<sup>1</sup> A maximum 6 credit hours total of Health Informatics (HI), Knowledge Management (KM) and User Experience Design (UXD) courses may be applied toward major electives.

### Technology Requirements

Appropriate technology and computer literacy skills are essential for each School of Information course. In order to be successful in the program, all incoming students must meet the School of Information computer competencies, as well as its minimum computer hardware, software and internet access requirements. before the first day of class. For details, students should consult the school's website.

## Dual Degree with M.B.A. degree in Business Administration

Students have the opportunity to complete a dual degree program with the M.B.A. degree in Business Administration and the M.L.I.S. degree in Library and Information Science. A separate application must be submitted for each program. Students can view admission requirements for each program on their respective catalog page.

At 61 credit hours for the dual degree, students receive an M.L.I.S.-M.B.A. dual-degree. The curriculum includes 24 credit hours of M.B.A. coursework, 25 credit hours of Library and Information Science courses and 12 credit hours from either business or library and Information science.

## Dual Degree Requirements

Code	Title	Credit Hours
<b>Major Requirements</b>		
ACCT 63037	FINANCIAL ACCOUNTING FOR DECISION MAKING	2
ACCT 63038	MANAGERIAL ACCOUNTING FOR DECISION MAKING	2
ECON 62021	GLOBAL CONDITIONS AND MACROECONOMICS POLICY	2
ECON 62022	MANAGERIAL ECONOMICS	2
FIN 66050	LAW AND ETHICS	2
FIN 66060	MANAGERIAL FINANCE	2
LIS 60010	THE INFORMATION LANDSCAPE	3
LIS 60020	INFORMATION ORGANIZATION	3
LIS 60030	PEOPLE IN THE INFORMATION ECOLOGY	3
LIS 60040	INFORMATION INSTITUTIONS AND PROFESSIONS	3
LIS 60050	RESEARCH AND ASSESSMENT IN LIBRARY AND INFORMATION SCIENCE	3
LIS 60092	MASTER'S INTERNSHIP IN LIBRARY AND INFORMATION SCIENCE	3
LIS 60280	MASTER'S PORTFOLIO IN LIBRARY AND INFORMATION SCIENCE	1
MIS 64041	OPERATIONS, SERVICE AND SUPPLY CHAIN MANAGEMENT	2
MIS 64158	LEADERSHIP AND MANAGERIAL ASSESSMENT	2
MIS 64185	BUSINESS STRATEGY	3
MKTG 65051	MARKETING MANAGEMENT	2
Business Elective, Any business graduate course in accordance to student's career goals may count as an elective. Recommended: ECON 62015		3
Business or Library and Information Science Elective, Minimum 3 credit hours must be from Library Science (LIS), choose from the following:		12
LIS 50645	DATABASE FUNDAMENTALS FOR INFORMATION PROFESSIONALS	
LIS 60641	INFORMATION STORAGE AND RETRIEVAL SYSTEMS	
LIS 61095	SELECTED TOPICS IN LIBRARY SCIENCE	
MIS 64005	ANALYTICS FOR DECISION MAKING	
MIS 64042	GLOBALIZATION AND TECHNOLOGY STRATEGY	
MIS 64271	HUMAN RESOURCE MANAGEMENT	
Library and Information Science Electives, Any Library Science (LIS) graduate course in accord to student's career goals may count as an elective		
Recommended, choose from the following:		6-9
LIS 60608	THE PUBLIC LIBRARY	
LIS 60609	MARKETING THE LIBRARY	
LIS 60615	THE ACADEMIC LIBRARY	
LIS 60616	THE SPECIAL LIBRARY	
LIS 60623	BUSINESS/FINANCE INFORMATION SOURCES AND SERVICES	
LIS 60643	ONLINE INFORMATION SYSTEMS	
LIS 60652	FOUNDATIONS OF RECORDKEEPING IN SOCIETY	
LIS 60700	FOUNDATIONS OF MUSEUM STUDIES	

## School Library Media K-12 - M.L.I.S.

### College of Communication and Information

School of Information

314 University Library

Kent Campus

330-672-2782

iSchool@kent.edu

www.kent.edu/iSchool

## Description

The Master of Library and Information Science degree in School Library Media K-12 prepares students to apply for multi-age licensure in school library media. The program curriculum is based in both practice and theory and includes library science and educational technology courses. The theoretical content is aligned with the American Library Association, the American Association of School Librarians national standards and the Ohio state standards for school libraries.

Students are given opportunities to apply their learning in practical environments through a culminating experience and other options. Graduates are prepared to work in all types of libraries.

### Fully Offered At:

- Online

## Accreditation

The M.L.I.S. degree in School Library Media K-12 is approved by the American Library Association and accredited by the Council for the Accreditation of Educator Preparation (CAEP)

## Admission Requirements

- Bachelor's degree from an accredited college or university for unconditional admission
- Minimum 3.000 undergraduate GPA on a 4.000 point scale for unconditional admission
- Official transcript(s)
- Résumé
- Goal statement
- Three letters of recommendation
- English language proficiency - all international students must provide proof of English language proficiency (unless they meet specific exceptions) by earning one of the following:
  - Minimum 525 TOEFL PBT score (paper-based version)
  - Minimum 71 TOEFL IBT score (Internet-based version)
  - Minimum 74 MELAB score
  - Minimum 6.0 IELTS score
  - Minimum 50 PTE score
  - Minimum 120 Duolingo English Test score

Effective for Spring 2021 admission, the requirements will be the following:

- Bachelor's degree from an accredited college or university for unconditional admission
- Minimum 3.000 undergraduate GPA on a 4.000 point scale for unconditional admission
  - Applicants who do not meet the minimum 3.000 GPA requirement must submit a statement that addresses the circumstances that contributed to the GPA and preparation for success in graduate study. Applicants should include recent professional achievements that indicate an ability to perform at a higher academic level to be considered for conditional admission to the program.
- Official transcript(s)
- GRE scores if total GPA is below 3.0 in highest completed degree<sup>1</sup>
- Résumé or curriculum vita
- Student Profile form
- Application Essay
- Three letters of recommendation
- English language proficiency - all international students must provide proof of English language proficiency (unless they meet specific exceptions) by earning one of the following:
  - Minimum 587 TOEFL PBT score (paper-based version)
  - Minimum 94 TOEFL IBT score (Internet-based version)
  - Minimum 82 MELAB score
  - Minimum 7.0 IELTS score
  - Minimum 65 PTE score

For more information about graduate admissions, please visit the Graduate Studies admission website. For more information on international admission, visit the Office of Global Education's admission website.

<sup>1</sup> In calculating the total GPA, all grades from all courses taken at relevant level (baccalaureate or master's) from all institutions are required.

## Program Learning Outcomes

Graduates of this program will be able to:

1. Apply the field's foundational theories, principles, values, ethics and skills to everyday practice in a school library context.
2. Critique and synthesize research and identify appropriate research methodologies to solve problems in the school librarianship field.
3. Analyze and engage in the changing cultural, educational and social roles and responsibilities of librarians and the educational environments they work in within the global society.
4. Evaluate systems and technologies relevant to a school librarianship context.
5. Identify needs and connect K12 stakeholders (students, teachers, administrators) and communities with information that engages and empowers them.

## Program Requirements

### Major Requirements

Code	Title	Credit Hours
<b>Major Requirements (min C grade required in all courses)</b>		
LIS 60020	INFORMATION ORGANIZATION	3
LIS 60030	PEOPLE IN THE INFORMATION ECOLOGY	3

LIS 60050	RESEARCH AND ASSESSMENT IN LIBRARY AND INFORMATION SCIENCE	3
LIS 60280	MASTER'S PORTFOLIO IN LIBRARY AND INFORMATION SCIENCE	1
LIS 60607	SCHOOL LIBRARY MANAGEMENT	3
LIS 60618	INFORMATION LITERACY INITIATIVES AND INSTRUCTION	3
LIS 60624	CATALOGING FOR SCHOOL LIBRARIES	3
LIS 60626	ENGAGING TEENS	3
LIS 60629	ENGAGING SCHOOL-AGE CHILDREN	3
LIS 60630	REFERENCE SOURCES AND SERVICES FOR YOUTH	3
LIS 60792	CULMINATING EXPERIENCE PRACTICUM IN K-12 LIBRARIES	3
Major Electives, choose from the following:		6
ETEC 57400	TRENDS IN EDUCATIONAL TECHNOLOGY	
ETEC 57427	TECHNOLOGY AND LEARNING	
ETEC 67420	RESEARCH ISSUES IN EDUCATIONAL TECHNOLOGY	
ETEC 67425	MANAGING TECHNOLOGICAL CHANGE	
LIS 60675	YOUTH LITERATURE IN THE DIGITAL REALM	
Minimum Total Credit Hours:		37

## Graduation Requirements

- Minimum 3.000 overall GPA
- Successful completion of all requirements with a minimum C grade
- An electronic portfolio is required to obtain licensure in K-12 School Library Media

## Licensure Information

Candidates seeking Ohio licensure are required to pass specific assessments in order to apply for licensure. Students should consult their advisors for specific program requirements and refer the Ohio Department of Education—Educator Preparation website for information on assessments specific to licensure type. Applicants interested in obtaining school library media licensure or certification outside the state of Ohio should refer to the requirements established by their state education agencies.

## Dual Degree with M.Ed. degree in Educational Technology

Students have the opportunity to complete a dual degree program with the M.Ed. degree in Educational Technology and the M.L.I.S. degree in School Library Media K-12. A separate application must be submitted for each program. Students can view admission requirements for each program on their respective catalog page.

The M.Ed./M.L.I.S. dual degree program leads to a multi-age initial licensure in school library media. This program prepares students to work in all types of libraries, including school libraries. The program of study includes professional educational requirements, along with library science and educational technology courses.

## Dual Degree Requirements

Code	Title	Credit Hours
<b>Major Requirements</b>		
ADED 62145	PRINCIPLES OF SECONDARY TEACHING	3

CI 67310	THEORY AND PRACTICE IN THE TEACHING OF READING	3
CI 67330	READING IN CONTENT AREAS	3
EPSY 65524	LEARNING THEORIES	3
LIS 60020	INFORMATION ORGANIZATION	3
LIS 60030	PEOPLE IN THE INFORMATION ECOLOGY	3
LIS 60050	RESEARCH AND ASSESSMENT IN LIBRARY AND INFORMATION SCIENCE	3
LIS 60607	SCHOOL LIBRARY MANAGEMENT	3
LIS 60618	INFORMATION LITERACY INITIATIVES AND INSTRUCTION	3
LIS 60624	CATALOGING FOR SCHOOL LIBRARIES	3
LIS 60626	ENGAGING TEENS	3
LIS 60629	ENGAGING SCHOOL-AGE CHILDREN	3
LIS 60630	REFERENCE SOURCES AND SERVICES FOR YOUTH	3
LIS 60892	CULMINATING EXPERIENCE FOR DUAL DEGREE	6
SPED 63200	INTRODUCTION TO EXCEPTIONALITIES	3
Dual Degree Electives, choose from the following:		9
ETEC 57400	TRENDS IN EDUCATIONAL TECHNOLOGY	
ETEC 57403	INSTRUCTIONAL DESIGN	
ETEC 57427	TECHNOLOGY AND LEARNING	
ETEC 67420	RESEARCH ISSUES IN EDUCATIONAL TECHNOLOGY	
ETEC 67425	MANAGING TECHNOLOGICAL CHANGE	
ETEC 67426	MANAGING SCHOOL TECHNOLOGIES	
ETEC 67434	EMERGING TECHNOLOGIES FOR EDUCATION	
LIS 60675	YOUTH LITERATURE IN THE DIGITAL REALM	
Additional Library and Information Science (LIS) courses are accepted		
Minimum Total Credit Hours:		57

## Graduation Requirements

- Students in M.Ed. degree have six years from the term of first enrollment to complete the degree.
- Students are responsible for completing licensure paperwork requirements through the College of Education, Health and Human Services near the end of or at the conclusion of their M.L.I.S. degree program. Exam administered by the Evaluation Systems Group of Pearson is required for licensure.

## Licensure Information

Candidates seeking Ohio licensure are required to pass specific assessments in order to apply for licensure. Students should consult their advisors for specific program requirements and refer to the Ohio Department of Education-Educator Preparation website. for more information on assessments specific to licensure type.

## School Library Media Licensure (Non-Degree)

### College of Communication and Information

School of Information  
314 University Library  
Kent Campus  
330-672-2782  
iSchool@kent.edu

www.kent.edu/iSchool

## Description

The School Library Media Licensure non-degree program is intended for students who already hold a teaching license and are interested in working in school libraries. The curriculum comprises coursework in library science, educational technology, management, cataloging and literature. A required practicum provides students the opportunity to apply principles learned in graduate study to real-world experiences and to network with professionals in the field.

This program is one of the three pathways available at Kent State University for students who are interested in obtaining multi-age licensure in school library media through the Ohio Department of Education. The other two pathways are the M.L.I.S. degree in School Library Media K-12 and the dual degree M.L.I.S. in School Library Media K-12/M.Ed. in Educational Technology.

### Fully Offered At:

- Kent Campus

## Accreditation

The School Library Media Licensure non-degree program is accredited by the American Library Association and the Council for the Accreditation of Educator Preparation (CAEP).

## Admission Requirements

- Bachelor's degree from an accredited college or university
- Official transcript(s)
- GRE scores if total GPA is below 3.0 in highest completed degree<sup>1</sup>
- Current résumé or curriculum vita
- Student Profile Form
- Application essay
- Statement of exception addressing circumstances and readiness for graduate education
- Three letters of recommendation
- English language proficiency - all international students must provide proof of English language proficiency (unless they meet specific exceptions) by earning one of the following:
  - Minimum 525 TOEFL PBT score (paper-based version)
  - Minimum 71 TOEFL IBT score (Internet-based version)
  - Minimum 74 MELAB score
  - Minimum 6.0 IELTS score
  - Minimum 50 PTE score

For more information about graduate admissions, please visit the Graduate Studies admission website. For more information on international admission, visit the Office of Global Education's admission website.

<sup>1</sup> In calculating the GPA, all grades from all courses taken at relevant level (bachelor's or master's) from all institutions are required.

## Program Requirements

### Licensure Requirements

Code	Title	Credit Hours
<b>Licensure Requirements</b>		
LIS 60607	SCHOOL LIBRARY MANAGEMENT	3
LIS 60618	INFORMATION LITERACY INITIATIVES AND INSTRUCTION	3
LIS 60624	CATALOGING FOR SCHOOL LIBRARIES	3
LIS 60626	ENGAGING TEENS	3
LIS 60629	ENGAGING SCHOOL-AGE CHILDREN	3
LIS 60630	REFERENCE SOURCES AND SERVICES FOR YOUTH	3
LIS 60792	CULMINATING EXPERIENCE PRACTICUM IN K-12 LIBRARIES	3
School Library Media Electives, choose from the following:		6
ETEC 57400	TRENDS IN EDUCATIONAL TECHNOLOGY	
ETEC 57427	TECHNOLOGY AND LEARNING	
ETEC 67420	RESEARCH ISSUES IN EDUCATIONAL TECHNOLOGY	
ETEC 67425	MANAGING TECHNOLOGICAL CHANGE	
LIS 60675	YOUTH LITERATURE IN THE DIGITAL REALM	

Minimum Total Credit Hours:

27

### Licensure Information

In Ohio, an individual must have attained a currently valid standard Ohio teaching license in order to add the multi-age supplemental library media licensure as an endorsement area. Out of state applicants should verify licensure reciprocity and library media licensure requirements with their state education agencies. Students are responsible for completing licensure paperwork requirements through the Kent State University College of Education, Health and Human Services near the end of or at the conclusion of the program. Exam administered by the Evaluations Systems Group of Pearson is required for licensure.

Applicants interested in obtaining school library media licensure or certification outside the state of Ohio should refer to the requirements established by their state education agencies.

## User Experience Design - M.S.

### College of Communication and Information

School of Information  
314 University Library  
Kent Campus  
330-672-2782  
iSchool@kent.edu  
www.kent.edu/iSchool

## Description

The Master of Science degree in User Experience Design prepares students for careers that require them to apply a solid understanding of usability, content strategy, information architecture and user research.

The user experience designer engages in a variety of design activities that help produce usable interfaces and help organizations meet business goals. User experience design addresses the structural, informational, psychological and emotional aspects of what makes a

successful user interface, whether it is Web, mobile, tablet or any other device.

At Kent State University, user experience design is thought of as a process where students learn, understand, imagine, evaluate and inform. The design team begins by gathering data/information about users, clients, the organizational culture, common tasks and work environments. After sufficient data/information is gathered, the team seeks to understand the context in which the project will be undertaken. This phase is the bridge between data collection and design. Design in the imagine phase involves brainstorming, iterative prototyping and critiquing. The design team needs to constantly evaluate their designs to see if they work in the real world. This may involve activities such as paper prototyping, high-fidelity interactive prototyping and usability testing. The results of design must be communicated to appropriate audiences. This informing process involves giving presentations to clients and stakeholders, report writing and other forms of communication.

### Fully Offered At:

- Online

## Admission Requirements

- Bachelor's degree from an accredited college or university for unconditional admission
- Minimum 3.000 undergraduate GPA on a 4.000 point scale for unconditional admission<sup>1</sup>
- Official transcript(s)
- Résumé
- Goal statement
- Three letters of recommendation
- English language proficiency - all international students must provide proof of English language proficiency (unless they meet specific exceptions) by earning one of the following:
  - Minimum 587 TOEFL PBT score (paper-based version)
  - Minimum 94 TOEFL IBT score (Internet-based version)
  - Minimum 82 MELAB score
  - Minimum 7.0 IELTS score
  - Minimum 65 PTE score
  - Minimum 120 Duolingo English Test score

For more information about graduate admissions, please visit the Graduate Studies website. For more information on international admission, visit the Office of Global Education website.

<sup>1</sup> Applicants who do not meet the minimum 3.000 GPA requirement must submit a statement that addresses the circumstances that contributed to the GPA and preparation for success in graduate study. Applicants should include recent professional achievements that indicate an ability to perform at a higher academic level to be considered for conditional admission to the program.

## Program Learning Outcomes

Graduates of the program will be able to:

- Create a portfolio as a means to demonstrate competencies.
- Design and conduct research in a variety of ways necessary to understand users, stakeholders and competitors.

- Apply user experience research and design techniques to solve for user needs.
- Create and evaluate structures to support information and content organization.
- Test and critique existing designs and prototypes by employing usability-testing methods.
- Communicate design ideas in a variety of ways to design teams, stakeholders and developers.
- Demonstrate ability to manage user experience activities to align UX activities to organizational goals.

## Program Requirements

### Major Requirements

Code	Title	Credit Hours
<b>Major Requirements</b>		
UXD 60001	USER EXPERIENCE DESIGN PRINCIPLES AND CONCEPTS	3
UXD 60002	USER EXPERIENCE DESIGN IN PRACTICE	3
UXD 60101	INFORMATION ARCHITECTURE I	3
UXD 60102	PRINCIPLES OF INTERACTION	3
UXD 60103	RESEARCHING THE USER EXPERIENCE I	3
UXD 60104	USABILITY I	3
UXD 60118	ACCESSIBILITY EVALUATION AND UNIVERSAL DESIGN	3
Major Electives, choose from the following:		12
HI 60414	HUMAN FACTORS AND USABILITY IN HEALTH INFORMATICS	
LIS 60636	KNOWLEDGE ORGANIZATION STRUCTURES, SYSTEMS AND SERVICES	
UXD 60106	CONTENT STRATEGY I	
UXD 60111	INFORMATION ARCHITECTURE II	
UXD 60112	INTERACTION IN PRACTICE	
UXD 60113	RESEARCHING USER EXPERIENCE II	
UXD 60114	USABILITY II	
UXD 60117	USER EXPERIENCE DESIGN LEADERSHIP	
UXD 60691	SEMINAR IN USER EXPERIENCE DESIGN	
UXD 60792	ELECTIVE INTERNSHIP IN USER EXPERIENCE DESIGN	
UXD 61095	SPECIAL TOPICS IN USER EXPERIENCE DESIGN	
Heath Informatics (HI) Courses <sup>1</sup>		
Knowledge Management (KM) Courses <sup>1</sup>		
Library and Information Science (LIS) Courses <sup>1</sup>		
User Experience Design (UXD) Courses		
Culminating Requirement, choose from the following:		3-6
UXD 66080	PROFESSIONAL PORTFOLIO DESIGN AND ASSESSMENT	
UXD 66092	MASTER'S INTERNSHIP IN USER EXPERIENCE DESIGN	
UXD 66098	MASTERS PROJECT IN USER EXPERIENCE DESIGN	
UXD 66198	MASTER'S RESEARCH PAPER IN USER EXPERIENCE DESIGN	
UXD 66199	THESIS I	

Minimum Total Credit Hours:

36



<sup>1</sup> Students may take a maximum 6 credit hours of HI, KM and/or LIS courses.

## User Experience Design - Minor

### College of Communication and Information

School of Information  
314 University Library  
Kent Campus  
330-672-2782  
iSchool@kent.edu  
www.kent.edu/iSchool

### College of Communication and Information

School of Visual Communication Design  
241 Taylor Hall  
Kent Campus  
330-672-7856  
vcd@kent.edu  
www.kent.edu/vcd

## Description

The User Experience Design minor provides students with comprehension and applicable skills that focus on a product's overall customer experience, ease of use, control and feedback. The minor's curriculum covers fundamentals, principles, strategies, software, industry standards and professional ethics in regards to user experience design, user interface design, prototyping, usability, technology, software and information architecture.

### Fully Offered At:

- Kent Campus

## Admission Requirements

Admission to a minor is open to students declared in a bachelor's degree, the A.A.B. or A.A.S. degree or the A.T.S. degree (not Individualized Program major). Students declared only in the A.A. or A.S. degree or the A.T.S. degree in Individualized Program may not declare a minor. Students may not pursue a minor and a major in the same discipline.

To declare the User Experience Design minor, students must have a minimum 2.700 overall Kent State University GPA and have completed 15 earned credit hours.

## Program Learning Outcomes

Graduates of this program will be able to:

- Create a portfolio as a means to demonstrate competencies.
- Design and conduct research in a variety of ways necessary to understand users, stakeholders and competitors.
- Apply principles of Information Architecture and Content Strategy to web and mobile design problems.
- Create and evaluate structures to support information and content organization.
- Test and critique existing designs and prototypes by employing usability testing methods.

- Communicate design ideas in a variety of ways to design teams, stakeholders and developers.

## Minor Requirements

Code	Title	Credit Hours
<b>Minor Requirements</b>		
UXD 20001	INTRODUCTION TO USER EXPERIENCE DESIGN	3
UXD 40104	USABILITY	3
VCD 21000	INTRODUCTION TO WEB DESIGN	3
VCD 34006	MOTION DESIGN	3
Minor Electives, choose from the following:		
CCI 46001	RESPONSIVE WEB DESIGN	6
EMAT 33310	HUMAN-COMPUTER INTERACTION	
VCD 34004	VISUAL ETHICS	
VCD 43001	INTERACTION DESIGN I	
Minimum Total Credit Hours:		18

## Graduation Requirements

Minimum Minor GPA	Minimum Overall GPA
2.700	2.000

- Minimum 6 credit hours in the minor must be upper-division coursework (30000 and 40000 level).
- Minimum 6 credit hours in the minor must be outside of the course requirements for any major or other minor the student is pursuing.
- Minimum 50 percent of the total credit hours for the minor must be taken at Kent State (in residence).

## Technology Requirements

- Personal laptop, preferably a MacBook Pro or a comparable PC that can handle video and animations.
- Subscription to Lynda.com (Kent State supplies a Lynda.com campus subscription with enrollment).
- Primary software Adobe Creative Cloud (Photoshop, Illustrator, After Effects, InDesign, XD, Muse and Edge Animate) and MS Office or Apple's iWork Suite for each class.
- Other software may include Tumult Hype, Sketch, InVision, Transmit (or another FTP client), Text Edit, Balsamiq, Axure or Omnigraffle.

## Web-Enabled E-Learning Knowledge Management - Graduate Certificate

### College of Communication and Information

School of Information  
314 University Library  
Kent Campus  
330-672-2782  
iSchool@kent.edu  
www.kent.edu/iSchool

## Description

The Web-Enabled E-Learning Knowledge Management graduate certificate provides essential knowledge and skills to interested information professionals. Knowledge management is a business

process that formalizes the management and use of an enterprise's intellectual assets. As the knowledge economy continues to take shape in the 21st century, the factors of production are shifting from physical financial capital to intellectual capital. In this environment, the success of organizations will depend on their ability to generate, adopt and diffuse knowledge. Knowledge management promotes a collaborative and integrative approach to the creation, capture, organization, access and use of information assets, including the tacit and knowledge of people.

### Fully Offered At:

- Online

## Admission Requirements

- Bachelor's degree from an accredited college or university
- Official transcript(s)
- Résumé
- Goal statement
- Three letters of recommendation
- Goal statement

For more information about graduate admissions, please visit the Graduate Studies website.

## Program Requirements

### Certificate Requirements

Code	Title	Credit Hours
<b>Certificate Requirements</b>		
KM 60301	FOUNDATIONAL PRINCIPLES OF KNOWLEDGE MANAGEMENT	3
KM 60315	FOUNDATIONS OF DOCUMENT MANAGEMENT	3
KM 61096	INDIVIDUAL INVESTIGATION IN KNOWLEDGE MANAGEMENT <sup>1</sup>	3
or KM 66098	MASTER'S PROJECT IN KNOWLEDGE MANAGEMENT	
or KM 66199	THESIS I	
	or Capstone Course	
Certificate Electives, choose from the following:		9
KM 60303	KNOWLEDGE ASSESSMENT AND EVALUATION	
KM 60305	COMMUNITIES OF PRACTICE	
KM 60310	INTELLECTUAL CAPITAL MANAGEMENT	
KM 60311	BUSINESS PROCESS MANAGEMENT	
KM 60312	BUSINESS INTELLIGENCE-COMPETITIVE INTELLIGENCE	
KM 61095	SPECIAL TOPICS IN KNOWLEDGE MANAGEMENT	
Minimum Total Credit Hours:		18

<sup>1</sup> Students electing to enter the full degree program should use KM 66098, KM 66199 or Capstone Experience options to fulfill the requirement, rather than KM 61096, which may be useful for those students earning the certificate only.

## Graduation Requirements

Minimum Certificate GPA	Minimum Overall GPA
3.000	

- Students enrolled in the certificate can apply for admission to the master's degree and apply a maximum of 12 credit hours taken for the certificate program to the master's program requirements.

## School of Journalism and Mass Communication

### College of Communication and Information

School of Journalism and Mass Communication  
201 Franklin Hall  
Kent Campus  
330-672-2572  
jmc@kent.edu  
www.kent.edu/jmc

## Undergraduate Programs

- Advertising - B.S.
- Digital Media Production - B.S.
- Journalism - B.S.
- Public Relations - B.S.

## Minors

- Advertising
- Digital Media Production
- Fashion Media
- Media Literacy
- Photojournalism
- Public Relations
- Visual Journalism

## Graduate Programs

- Journalism and Mass Communication - M.A.

## School of Journalism and Mass Communication Faculty

- Armour, Luke L. (2012), Associate Professor, M.A., University of Akron, 2006
- Bailey, Evan B. (2003), Associate Professor, M.A., Kent State University, 2009
- Bowen, Candace P. (1995), Professor, M.A., Northern Illinois University, 1980
- Butler-Wall, Karisa (2019), Assistant Professor, Ph.D.
- Coombs, Danielle S. (2007), Professor
- Dworzniak, Gretchen J. (2015), Assistant Professor, Ph.D., Kent State University, 2008
- Ewing, Michele E. (2002), Associate Professor, M.A., Kent State University, 1989
- Foster, David A. (2014), Assistant Professor, M.A., Kent State University, 2014
- Fruit, Jeffrey W. (1998), Professor & Interim Director, M.A., The Ohio State University, 1977
- Goodman, Mark (2008), Professor, J.D., Duke University, 1985
- Hallgren, Scott W. (2016), Assistant Professor

- Hoak, Gretchen J. (2015), Assistant Professor, Ph.D., Kent State University, 2008
- Idsvoog, Karl A. (2004), Associate Professor
- Knoblock, Christopher (2019), Lecturer
- Lambert, Cheryl A. (2016), Assistant Professor
- Leach, Janet C. (2003), Professor, M.A., Kent State University, 2006
- Marino, Jacqueline A. (1990), Professor, M.A., The Johns Hopkins University, 2002
- McKenney, Mitchell J. (2001), Associate Professor, M.B.A., Kent State University, 2008
- Moore, Stefanie A. (2001), Professor, M.S., Kent State University, 2007
- Murray, Gordon J. (1982), Associate Professor, Ph.D., Kent State University, 1998
- Nowitz, Abraham (2019), Assistant Professor
- Roberts, Timothy A. (2003), Associate Lecturer, M.A., Kent State University, 2010
- Rolnick, Rebecca M. (2017), Assistant Professor, M.F.A., University of Southern California, 2000
- Sarver-Coombs, Danielle (2007), Professor, Ph.D., Louisiana State University-Baton Rouge, 2007
- Schultz, Connie, Professional in Residence
- Shelton, Eugene (2001), Professor, M.A., Kent State University, 2004
- Smith, Stephanie D. (2012), Associate Professor, M.P.A., Harvard College, 1994
- Tang, Tang (2018), Professor
- Wardell, Wendy A. (2012), Associate Lecturer, B.S., University of Akron, 1991
- Wasbotten, Thor L. (2012), Professor, M.S., University of Oregon, 1995
- White, Dana (2018), Assistant Professor, M.F.A., University of California, Riverside, 2015
- Williams, Traci E. (1995), Senior Lecturer, L.S.M., Kent State University, 2005
- York, Chance A. (2014), Assistant Professor, Ph.D., Louisiana State University-Baton Rouge, 2014
- York, Chance (2014), Assistant Professor, Ph.D., Louisiana St University A&M, Baton Rouge, 2014
- Zake, Susan K. (2007), Associate Professor, M.A., Kent State University, 2011

## Journalism and Mass Communication (JMC)

### JMC 10009 ELEMENTS OF FILM, TV AND ANIMATION 3 Credit Hours

An introduction to the theory and conceptual choices in story, picture and sound. This course prepares students for the creative and technical aspects of film, TV, and animation work.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

### JMC 12001 ELEMENTARY PHOTOGRAPHY 2 Credit Hours

Introduction to fundamentals and techniques of still and motion picture photography. Terminal course for students who do not have photography requirements.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

### JMC 13001 PRODUCTION SAFETY AND SET PROTOCOL 2 Credit Hours

This course will enhance the collaborative experience of multimedia creation by exposing students to the various skill sets and positions in the film and TV industries and familiarize them with industry standards and best practices, especially concerning safety processes.

**Prerequisite:** School of journalism and mass communication major.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

### JMC 20001 MEDIA, POWER AND CULTURE (DIVD) (KSS) 3 Credit Hours

Fosters critical understanding of mass media in their historical, ideological, economic and cultural contexts. Examines what forces influence media and how media influence consumers.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Diversity Domestic, Kent Core Social Sciences, Transfer Module Social Sciences

### JMC 20004 ADVERTISING WRITING AND STORYTELLING 3 Credit Hours

Introduces students to writing for advertising. In particular, students will understand how to effectively and strategically communicate to a variety of audiences, including business partners and consumers.

**Prerequisite:** Minimum 2.000 overall GPA; and advertising major or minor, digital media production, fashion media, journalism, media literacy, photojournalism, public relations or visual journalism.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

### JMC 20005 FUNDAMENTALS OF MEDIA MESSAGES 3 Credit Hours

Working with messages for print, broadcast, electronic and new media outlets. Course may not be taken for credit nor applied toward any requirements by a journalism and mass communication major.

**Prerequisite:** Communication studies major or fashion merchandising or community health education major.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

### JMC 20006 MULTIMEDIA TECHNIQUES 3 Credit Hours

Introduction to basic elements of multimedia journalistic storytelling, including the creation of audio, video, slideshows and multimedia packages for distribution via the Internet.

**Prerequisite:** Advertising, digital media production, fashion media, journalism, photojournalism or public relations major or minor.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 2 lecture, 2 lab

**Grade Mode:** Standard Letter

**JMC 20008 RESEARCH AND MEASUREMENT IN ADVERTISING AND PUBLIC RELATIONS 3 Credit Hours**

Understand the ways research is employed and applied in integrated communication, including both primary and secondary research. Students will understand how to use research and insights to develop strategy, or to craft research on business strategy. They also will become thoughtful researchers and consumers of research who are cognizant of the ethical and moral responsibilities associated with human subjects research. Students will be expected to understand and appreciate the diversity of audiences. Finally, students will develop critical thinking and writing skills in order to create and share a well-crafted presentation to clients that reflect a strong understanding of the connections among data, insight and strategy.

**Prerequisite:** EMAT 10310 or JMC 20006; and JMC 21001 or JMC 28001; and minimum 2.000 overall GPA; and advertising, fashion media, journalism, media literacy, photojournalism, public relations or visual journalism major or minor.

**Schedule Type:** Lecture  
**Contact Hours:** 3 lecture  
**Grade Mode:** Standard Letter

**JMC 20009 VIDEO AUDIO PRODUCTION AESTHETICS 3 Credit Hours**

Study of basic video and audio production aesthetics; analysis of film, television and radio through creative use of images and sound to create meaning.

**Prerequisite:** Advertising, communication studies, design, digital media production, digital sciences, fashion media, global communication, health communication, information design, interpersonal communication, journalism, media literacy, organizational communication, photography, photojournalism, public communication, public relations, user experience design, visual communication design or visual journalism major or minor.

**Schedule Type:** Lecture  
**Contact Hours:** 3 lecture  
**Grade Mode:** Standard Letter

**JMC 20011 PRODUCTION FUNDAMENTALS 3 Credit Hours**

Introduction to TV studio, camera, and sound production and post-production techniques.

**Prerequisite:** School of journalism and mass communication, or school of emerging media and technology, or school of visual communication design major or minor.

**Schedule Type:** Laboratory, Lecture, Combined Lecture and Lab  
**Contact Hours:** 1 lecture, 4 lab  
**Grade Mode:** Standard Letter

**JMC 21001 PRINCIPLES OF ADVERTISING 3 Credit Hours**

Advertising history, purposes, techniques, media and research; analysis of functions of advertising organizations.

**Prerequisite:** None.  
**Schedule Type:** Lecture  
**Contact Hours:** 3 lecture  
**Grade Mode:** Standard Letter  
**Attributes:** TAG Communication

**JMC 21004 ADVERTISING AND PUBLIC RELATIONS INDUSTRY TOOLS 1 Credit Hour**

Understanding of and proficiency in word processing, spreadsheet, design and presentation tools.

**Prerequisite:** A major or minor in Advertising, digital media production, fashion media, journalism, media literacy, photojournalism, public relations or visual journalism.  
**Schedule Type:** Lecture  
**Contact Hours:** 1 lecture  
**Grade Mode:** Standard Letter

**JMC 21005 ADVERTISING MESSAGING AND COMMUNICATION 3 Credit Hours**

Introduces students to the history and development of advertising, including the ways various audiences have been targeted and represented. This course also has a strong emphasis on professional writing and communication.

**Prerequisite:** JMC 20004 and JMC 21001 with a minimum C- grade; and EMAT 10310 or JMC 20006 with a minimum C- grade; and minimum 2.000 overall GPA; and advertising minor or major.

**Pre/corequisite:** JMC 20008 with a minimum C- grade.  
**Schedule Type:** Lecture  
**Contact Hours:** 3 lecture  
**Grade Mode:** Standard Letter

**JMC 21008 SOCIAL MEDIA STRATEGIES 3 Credit Hours**

Designed to help students understand and use social media in critical and strategic ways that will improve their lives and careers. Helps students harness the power and potential of the social Web, including strategies used to position and market organizations as well as individuals. Exposes students to the latest social-media applications and to critical views of social media's impact on business, society and culture. Students are also introduced to interaction perspectives of social media, which are embedded within both the communication studies and the journalism and mass communication curriculum. Students emerge from the class with a strategic plan designed to enhance their lives and their careers.

**Prerequisite:** None.  
**Schedule Type:** Lecture  
**Contact Hours:** 3 lecture  
**Grade Mode:** Standard Letter

**JMC 22000 PHOTOGRAPHY BASICS 1 Credit Hour**

Fundamentals of b/w and color photography and digital manipulation software. Introduction of basic themes of journalistic photography including flash photography. Student furnishes 35mm or APS camera with flash. Disposable cameras not acceptable. A GPA of 2.700 is required in the major.

**Prerequisite:** Minimum 2.000 overall GPA; and integrated language arts, digital media production or journalism major.  
**Schedule Type:** Lecture  
**Contact Hours:** 1 lecture  
**Grade Mode:** Standard Letter

**JMC 22001 PHOTOGRAPHY 3 Credit Hours**

Basic camera and digital techniques to provide a better understanding of photography as a creative and journalistic skill.

**Prerequisite:** Art education or journalism major or minor.  
**Schedule Type:** Lecture  
**Contact Hours:** 3 lecture  
**Grade Mode:** Standard Letter  
**Attributes:** TAG Communication

**JMC 22002 VIDEOGRAPHY BASICS 1 Credit Hour**

Instruction in basic camcorder videography video editing techniques to provide understanding of processes as creative journalistic skills and as practical application of knowledge acquired in the prerequisite class.

**Prerequisite:** Journalism and mass communication or integrated language arts or visual communication and design major.  
**Schedule Type:** Lecture  
**Contact Hours:** 1 lecture  
**Grade Mode:** Standard Letter

**JMC 22003 VIDEOGRAPHY BASICS II 1 Credit Hour**

Emphasis on video editing for broadcast news and electronic media production applications using computer video editing skills.

**Prerequisite:** School of journalism and mass communication major or minor.

**Pre/corequisite:** JMC 22002 with a minimum C- grade.

**Schedule Type:** Lecture

**Contact Hours:** 1 lecture

**Grade Mode:** Standard Letter

**JMC 22004 VISUAL STORYTELLING 3 Credit Hours**

Technical and digital skills needed to produce photos that communicate. Course will stress narrative work, detailed caption information and reporting. A GPA of 2.700 is required in the major.

**Prerequisite:** JMC 22001 or CCI 12001; and minimum 2.000 overall GPA; and journalism and mass communication or visual communication design major.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**JMC 23004 STORY FOR PICTURE 3 Credit Hours**

An introductory course on plot, character development, and dramatic structure for narrative scriptwriting.

**Prerequisite:** Advertising, digital media production, fashion media, journalism, media literacy, photojournalism, public relations or visual journalism major or minor.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**JMC 23030 BASIC VIDEO PRODUCTION 3 Credit Hours**

Theoretical and practical application of program production for video. A GPA of 2.700 is required in the major.

**Prerequisite:** JMC 20001 or JMC 20003 with a minimum C- grade; and JMC 20004 and JMC 22002 with a C- grade; and minimum 2.000 overall GPA; and journalism and mass communication major.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 2 lecture, 2 lab

**Grade Mode:** Standard Letter

**JMC 23031 BASIC AUDIO PRODUCTION 3 Credit Hours**

Theoretical and practical application of program production for audio production. A GPA of 2.700 is required in the major.

**Prerequisite:** JMC 20003 with a minimum C- grade; and JMC 20004 and 22002 with a minimum C- grade; and minimum 2.000 overall GPA; and school of journalism and mass communication major or minor.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 2 lecture, 2 lab

**Grade Mode:** Standard Letter

**Attributes:** TAG Communication

**JMC 23130 DIRECTING FOR PICTURE 3 Credit Hours**

A course designed to give students the creative and technical knowledge and skills needed to direct narrative and documentary productions. A GPA of 2.700 is required in the major.

**Prerequisite:** JMC 20011 with a minimum C- grade; and JMC 23004 or JMC 30004 with a minimum C- grade; and minimum 2.000 overall GPA; and advertising, digital media production, fashion media, journalism, media literacy, photojournalism, public relations or visual journalism major or minor.

**Schedule Type:** Laboratory, Lecture, Combined Lecture and Lab

**Contact Hours:** 2 lecture, 2 lab

**Grade Mode:** Standard Letter

**JMC 23140 PRODUCTION I 3 Credit Hours**

A hands-on introduction to narrative and documentary storytelling. Students write, edit and direct projects emphasizing visual storytelling. A GPA of 2.700 is required in the major.

**Prerequisite:** A minimum C- grade in the following courses JMC 20011, JMC 23004 and JMC 23130.

**Schedule Type:** Laboratory, Lecture, Combined Lecture and Lab

**Contact Hours:** 1 lecture, 4 lab

**Grade Mode:** Standard Letter

**JMC 26001 WRITING ACROSS PLATFORMS 3 Credit Hours**

Theory and practice in writing basic print and digital news and feature stories.

**Prerequisite:** JMC 20003 with a minimum C- grade; and JMC 20006 or EMAT 10310 with a minimum C- grade; and school of journalism and mass communication major or minor; or integrated language arts major.

**Schedule Type:** Laboratory, Lecture, Combined Lecture and Lab

**Contact Hours:** 1 lecture, 4 lab

**Grade Mode:** Standard Letter

**JMC 26005 STORYTELLING ACROSS PLATFORMS 3 Credit Hours**

Multimedia as story telling tools. Developing the multimedia mindset.

Using different delivery platforms and understanding deadlines of various media forms. Formatting stories for webmobile delivery. Learning different multimedia formats. Using multimedia in breaking news situations. Creating multimedia features and packages. Standalone vs. complementary stories. Learning more about capturing and using video, audio and still photos. Ethical and legal issues surrounding online news reporting and presentation. A GPA of 2.700 is required in the major.

**Prerequisite:** Minimum C- grade in JMC 26001; and minimum C- grade in EMAT 10310 or JMC 20006.

**Schedule Type:** Laboratory, Lecture

**Contact Hours:** 2 lecture, 2 lab

**Grade Mode:** Standard Letter

**JMC 26007 REPORTING 3 Credit Hours**

Gathering and writing news: interviewing techniques, cultivating sources, developing beats, meeting deadlines. Includes campus reporting for Daily Kent Stater. A GPA of 2.700 is required in the major.

**Prerequisite:** A minimum C- grade in JMC 26005 or JMC 38002.

**Schedule Type:** Laboratory, Lecture

**Contact Hours:** 2 lecture, 2 lab

**Grade Mode:** Standard Letter

**JMC 26008 BROADCAST REPORTING 3 Credit Hours**

Writing news, developing sources and beats, meeting deadlines as they relate to electronic media. Includes reporting campus news for daily broadcasts. A GPA of 2.700 is required in the major.

**Prerequisite:** JMC 26005 and COMM 21000 with a minimum C- grade; and minimum 2.000 cumulative GPA; and school of journalism and mass communication major.

**Schedule Type:** Laboratory, Lecture

**Contact Hours:** 2 lecture, 2 lab

**Grade Mode:** Standard Letter

**JMC 26395 SPECIAL TOPICS IN JOURNALISM SKILLS 3 Credit Hours**

(Repeatable three times for credit) Includes writing different types of news stories for various platforms.

**Prerequisite:** Special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter



**JMC 28001 PRINCIPLES OF PUBLIC RELATIONS 3 Credit Hours**

Explores strategic role and function of public relations in business, nonprofit public institutions and society. Covers public relations practice from development to present.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**JMC 30004 WRITING FOR VIDEO AND AUDIO MEDIA 3 Credit Hours**

Application of standard writing styles and formats in the electronic media. Writing practice in commercials, continuity, promotions and introductory scriptwriting techniques. A GPA of 2.700 is required in the major.

**Prerequisite:** JMC 20009 or JMC 20011 with a minimum C- grade; and minimum 2.000 overall GPA; and advertising, digital media production, fashion media, journalism, media literacy, photojournalism, public relations or visual journalism major or minor.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**JMC 30034 PROGRAMMING FOR DIGITAL MEDIA 3 Credit Hours**

Background analysis of radio, TV, cable and Internet programming and the relationship to audience needs, interests, expectations and audience measurement procedures. A GPA of 2.700 is required in the major.

**Prerequisite:** A minimum C- grade in either JMC 30036 or JMC 33033 or JMC 33043.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**JMC 30036 DIGITAL VIDEO EDITING 3 Credit Hours**

Intermediate class in editing for single camera and multi-camera productions using Adobe Premiere software. A GPA of 2.700 is required in the major.

**Prerequisite:** JMC 20011 with a minimum C- grade; and minimum 2.000 overall GPA; and school of journalism and mass communication major or minor.

**Schedule Type:** Laboratory, Lecture, Combined Lecture and Lab

**Contact Hours:** 2 lecture, 2 lab

**Grade Mode:** Standard Letter

**JMC 31002 ADVERTISING COPYWRITING (WIC) 3 Credit Hours**

Examination and practice in various forms of advertising copywriting and their applications. A GPA of 2.700 is required in the major.

**Prerequisite:** Minimum grade of C- in JMC 20004 and 21001 and 31011; and minimum 2.000 overall GPA; and advertising major or minor.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Writing Intensive Course

**JMC 31003 ADVERTISING MEDIA PLANNING 3 Credit Hours**

Analysis, selection and scheduling of advertising media. Examination of advertising research, technique and application. A GPA of 2.700 is required in the major.

**Prerequisite:** Minimum grade of C- in JMC 20004 and 20008 and 21001; and minimum 2.000 overall GPA; and advertising major or minor.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**JMC 31004 DIGITAL ADVERTISING 3 Credit Hours**

Explores digital targeting, advertising and mobilization in detail. Students will learn how to run winning digital advertising campaigns that educate and activate constituents. It is the study of overall strategic creation of digital advertising communication with a focus on copy writing and the implementation of basic production skills. A 2.70 GPA is required in the major.

**Prerequisite:** Minimum C- grade in JMC 20004 and JMC 20008 and JMC 21001; and minimum 2.000 overall GPA; and advertising major or minor.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**JMC 31007 DIGITAL ANALYTICS IN ADVERTISING AND PUBLIC RELATIONS 2 Credit Hours**

Explores digital analytics and online measurement. Students will start with planning and setting measurable objectives, finding online audiences, and then design and implement measurement plans. Students will use social media analytics tools and Google analytics to capture data and then determine next steps. A 2.70 GPA is required in the major.

**Prerequisite:** JMC 20008 with a minimum C- grade; and minimum 2.000 overall GPA; and advertising or public relations major or minor.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**JMC 31011 ADVERTISING STRATEGY DEVELOPMENT 3 Credit Hours**

Ad majors learn problem-solving techniques, which they will apply to business and creative proposals designed to promote products and or services. Development of good, clear writing skills is a key component of the course.

**Prerequisite:** Minimum C- grade in JMC 20004, JMC 20008, JMC 21001 and JMC 21004; and minimum C- grade in either EMAT 10310 or JMC 20006; and minimum 2.000 overall GPA; and advertising major or minor.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**JMC 32001 PHOTOJOURNALISM I 3 Credit Hours**

Production of photographs for newspapers, magazines and online news media. A laboratory course emphasizing color and black and white photography. A GPA of 2.700 is required in the major.

**Prerequisite:** Minimum C- grade in CCI 12001 or JMC 22001 or VCD 18000.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**JMC 32002 PHOTOJOURNALISM II 3 Credit Hours**

(Repeatable once for credit) Continuation of JMC 32001. Advanced news and feature photography for newspapers, magazines and online including a collaborative project. A GPA of 2.700 is required in the major.

**Prerequisite:** A minimum C- grade in JMC 32001.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**JMC 32005 VIDEO FOR STILL PHOTOGRAPHERS 3 Credit Hours**

Teaches video skills for photojournalists, including interviewing, establishing a narrative, editing, and how video is paired with the written story. A GPA of 2.700 is required in the major.

**Prerequisite:** JMC 22004 with a minimum C- grade; and journalism and mass communication major.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**JMC 33024 BROADCAST PERFORMANCE 3 Credit Hours**

Development of effective communication techniques in performance situations for visual media. A GPA of 2.700 is required in the major.

**Prerequisite:** JMC 26008 with a minimum C- grade; and minimum 2.000 overall GPA; and advertising, digital media production, fashion media, journalism, media literacy, photojournalism, public relations or visual journalism major or minor.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**JMC 33032 AUDIO SET-UP AND MIXING 3 Credit Hours**

Production of in-studio audio programming units, with laboratory unit required as part of course. A GPA of 2.700 is required in the major.

**Prerequisite:** JMC 20011 with a minimum C- grade; and minimum 2.000 GPA; and advertising, digital media production, fashion media, journalism, media literacy, photojournalism, public relations or visual journalism major or minor.

**Corequisite:** JMC 30004.

**Schedule Type:** Laboratory, Lecture, Combined Lecture and Lab

**Contact Hours:** 2 lecture, 2 lab

**Grade Mode:** Standard Letter

**JMC 33033 SOUND FOR PICTURE 3 Credit Hours**

An intermediate class for audio and music in film and multimedia.

Students learn the entire process of sound for picture workflow, department by department, from pre-production and budgeting through final mixdown. A GPA of 2.700 is required in the major.

**Prerequisite:** JMC 20011 minimum C- grade; and minimum 2.000 overall GPA; and advertising, digital media production, digital sciences, fashion media, journalism, media literacy, photojournalism, public relations or visual journalism major or minor.

**Schedule Type:** Laboratory, Lecture, Combined Lecture and Lab

**Contact Hours:** 2 lecture, 2 lab

**Grade Mode:** Standard Letter

**JMC 33036 MULTIMEDIA ENGINEERING 3 Credit Hours**

Introduction to basic digital media technology and systems, providing knowledge and vocabulary to allow communication with broadcast engineers. Overview of radio/TV operations and legal viewpoint. Prep for SBE operators' cert. exam. A GPA of 2.700 is required in the major.

**Prerequisite:** JMC 20011 with a minimum C- grade; and a minimum C- grade in two of the following JMC 30036, JMC 33033 or JMC 33043; and minimum 2.000 overall GPA; and journalism and mass communication major.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**JMC 33042 STUDIO TELEVISION 3 Credit Hours**

Study of all positions of a live television program including technical directing, floor directing, graphics, digital playback, and audio engineering. One hour lecture two hours lab. A GPA of 2.700 is required in the major.

**Prerequisite:** JMC 20011 with a minimum C- grade; and minimum 2.000 overall GPA; and advertising, digital media production, fashion media, journalism, media literacy, photojournalism, public relations or visual journalism major or minor.

**Corequisite:** JMC 30004.

**Schedule Type:** Laboratory, Lecture, Combined Lecture and Lab

**Contact Hours:** 1 lecture, 4 lab

**Grade Mode:** Standard Letter

**JMC 33043 DIGITAL CINEMATOGRAPHY 3 Credit Hours**

Course focuses on digital cinematography techniques for shooting documentary and narrative fiction. Two hours lecture, one hour lab. A GPA of 2.700 is required in the major.

**Prerequisite:** JMC 20011 with a minimum C- grade; and minimum 2.000 overall GPA; and advertising, digital media production, fashion media, journalism, media literacy, photojournalism, public relations or visual journalism major or minor.

**Schedule Type:** Laboratory, Lecture

**Contact Hours:** 2 lecture, 2 lab

**Grade Mode:** Standard Letter

**JMC 33092 STUDENT MEDIA PRACTICUM IN DIGITAL MEDIA PRODUCTION (ELR) 1-3 Credit Hours**

(Repeatable for a maximum of 3 credit hours) Performance of assigned activities in radio or television under student media supervision. A GPA of 2.700 is required in the major.

**Prerequisite:** JMC 20003 with a minimum C- grade; and minimum 2.000 GPA; and sophomore standing; and special approval.

**Schedule Type:** Practical Experience

**Contact Hours:** 3-9 other

**Grade Mode:** Satisfactory/Unsatisfactory

**Attributes:** Experiential Learning Requirement

**JMC 36005 COPY EDITING AND NEWS DESIGN 3 Credit Hours**

Improving the writing of other journalists and writing headlines. Intensive review of AP style and grammar. A GPA of 2.700 is required in the major.

**Prerequisite:** COMM 21000 and JMC 26001 with a minimum C- grade; and minimum 2.000 overall GPA.

**Schedule Type:** Laboratory, Lecture

**Contact Hours:** 3 lecture, 0 lab

**Grade Mode:** Standard Letter

**JMC 36008 FREELANCE JOURNALISM 3 Credit Hours**

Provides students the tools, resources and strategies needed to pitch creative works to magazines, book publishers, contests and other media companies. They will learn to research markets, craft effective queries and manage the business considerations of being a freelancer. A GPA of 2.700 is required in the major.

**Prerequisite:** JMC 36018 with a minimum C- grade; and minimum 2.000 overall GPA; and advertising, digital media production, fashion media, journalism, media literacy, photojournalism, public relations or visual journalism major or minor.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**JMC 36010 INTERVIEWING AND DATA FOR JOURNALISTS 3 Credit Hours**

Interviewing techniques for reporters across media platforms. Skills for in-person, phone, email and social media interviews that will be used to produce stories for publication. Includes ethics of journalistic interviews and interrogating data. Introduction to data collection for reporters. A 2.70 GPA is required in the JMC major.

**Prerequisite:** JMC 26005 with a minimum C- grade; and a major or minor in advertising, digital media production, fashion media, journalism, media literacy, photojournalism, public relations or visual journalism.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**JMC 36018 FEATURE WRITING 3 Credit Hours**

Researching writing and placement of feature stories in publications. A GPA of 2.700 is required in the major.

**Prerequisite:** Minimum C- grade in JMC 26007 or JMC 26008; and minimum 2.000 overall GPA.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**JMC 36020 STORYTELLING WITH SOUND 3 Credit Hours**

Teaches students how to research, write, edit and produce compelling audio news and storytelling packages. Students will learn both the technical side of producing audio stories and the journalistic and narrative sides of writing audio stories. A 2.700 is required in the major.

**Prerequisite:** Minimum C- grade in JMC 26005 or JMC 23004 or JMC 30004; and minimum 2.000 overall GPA; and digital media production or journalism major or minor.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 2 lecture, 2 lab

**Grade Mode:** Standard Letter

**JMC 36040 MAGAZINE EDITING AND DESIGN 3 Credit Hours**

Teaches the fundamentals of editing and design for print magazine media. It teaches the skills necessary to become an editor. A 2.70 GPA is required in the journalism major.

**Prerequisite:** JMC 36005 with minimum C- grade; and minimum 2.000 overall GPA; and advertising, digital media production, fashion media, journalism, media literacy, photojournalism, public relations or visual journalism major or minor .

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**JMC 36050 ADVANCED REPORTING 3 Credit Hours**

Focuses on accountability journalism. Students will work on both individual and team reporting projects. Students will develop and report stories of substance on local, state, and national issues. Each student will have to conduct at least one accountability interview with either a member of Congress or a member of the state legislature on a specific topic or issue. A GPA of 2.700 is required in the major.

**Prerequisite:** JMC 26007 or JMC 26008; and a minimum 2.000 cumulative GPA; and a major or minor in advertising, digital media production, fashion media, journalism, media literacy, photojournalism, public relations or visual journalism major or minor.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 2 lecture, 2 lab

**Grade Mode:** Standard Letter

**JMC 36395 SPECIAL TOPICS IN JOURNALISM REPORTING 3 Credit Hours**

(Repeatable three times for credit) Topics of special interest not covered in existing reporting classes. A GPA of 2.700 is required in the major.

**Prerequisite:** Minimum 2.000 overall GPA; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**JMC 38002 PUBLIC RELATIONS CASE STUDIES 3 Credit Hours**

Explores the process and practice of public relations by requiring students to analyze real-world case studies and develop an actual public relations plan on behalf of a client organization. Students should expect to spend time outside the classroom working within teams in support of client objectives. A significant amount of writing in multiple formats is required. A major GPA of 2.700 is required.

**Prerequisite:** JMC 26001 and JMC 28001 with a minimum C- grade; and minimum 2.000 overall GPA; and advertising, digital media production, fashion media, journalism, media literacy, photojournalism, public relations or visual journalism major or minor.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**JMC 40002 REPORTING FOR MASS MEDIA 3 Credit Hours**

(Slashed with JMC 50002) Theory and practice in newswriting and reporting; news values and news judgment lead and story development techniques of gathering information and dealing with sources of news writing for deadline. Course may not be taken for credit or applied toward any requirements by a Journalism and Mass Communication (JMC) major or minor without special approval.

**Prerequisite:** Minimum 2.75 overall GPA; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**JMC 40004 COMPUTER ASSISTED REPORTING 3 Credit Hours**

(Slashed with JMC 50004) Computer analysis of large data sets, focusing on government court police records for preparation of news stories basics of online searching software and databases. A GPA of 2.700 is required in the major.

**Prerequisite:** JMC 26007 or 26008 with a C- grade; and 2.000 overall GPA.

**Schedule Type:** Laboratory, Lecture

**Contact Hours:** 3 lecture, 0 lab

**Grade Mode:** Standard Letter

**JMC 40006 LAW OF MASS COMMUNICATION 3 Credit Hours**

(Slashed with JMC 50006) Libel and slander; privacy copyright obscenity regulation of advertising broadcasting and corporate speech access to government legal; problems of new media. A GPA of 2.700 is required in the major.

**Prerequisite:** Minimum 2.000 overall GPA; and advertising, digital media production, journalism, photojournalism, public relations majors or media literacy minor; and junior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**JMC 40007 REVIEWING THE ARTS 2 Credit Hours**

(Slashed with JMC 50007) Reviewing and criticizing of performing, visual and literary arts. Emphasis on books, film, TV and theatre. A GPA of 2.700 is required in the major.

**Prerequisite:** JMC 20004 with a minimum B- grade or JMC 26001 with a C- grade; and minimum 2.000 overall GPA; and junior or senior standing.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**JMC 40009 COMPARATIVE MEDIA SYSTEMS 3 Credit Hours**

Study of the forms, organization scope and modes of operation of media systems in foreign lands. Also examines agent channels and contents of international communication. A GPA of 2.700 is required in the major.

**Prerequisite:** Minimum 2.000 overall GPA; and junior or senior standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**JMC 40010 ETHICS AND ISSUES IN MASS COMMUNICATION (WIC) 3 Credit Hours**

Ethical problems and issues in mass communication within a framework of basic theories, functions and social roles of the mass media. A GPA of 2.700 is required in the major.

**Prerequisite:** At least 18 hours of JMC courses with a minimum C- grade; a minimum C- grade in JMC 20004 or JMC 26001 or JMC 30004; and minimum 2.000 overall GPA; and school of journalism and mass communication major; and senior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Writing Intensive Course

**JMC 40011 ETHICAL ISSUES IN INTEGRATED COMMUNICATION 1 Credit Hour**

Focuses specifically on the ethical and moral issues affecting Advertising and Public Relations professionals. Focuses solely on Integrated Communications. Students will understand and appreciate the complex moral and ethical decisions that professionals make each day, often under intense deadline pressure. They also acquire their basic problem-solving skills to manage these issues in real time. A GPA of 2.700 is required in the major.

**Prerequisite:** JMC 31002 and 31003 or JMC 38002; and minimum 2.000 overall GPA; and advertising or public relations major.

**Schedule Type:** Lecture

**Contact Hours:** 1 lecture

**Grade Mode:** Standard Letter

**JMC 40012 ONLINE JOURNALISM 3 Credit Hours**

Study and evaluation of online news and news sites; reporting and writing for online news media design production and maintenance of an online news site ethical legal and economic issues related to online news. A GPA of 2.700 is required in the major.

**Prerequisite:** JMC 26007 or 26008 with a minimum C- grade; and minimum 2.000 overall GPA.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**JMC 40013 TELEVISION SPORTS PRODUCTION 3 Credit Hours**

(Slashed with JMC 50013) A comprehensive study of the production of live action television. A GPA of 2.700 is required in the major.

**Prerequisite:** Minimum 2.000 overall GPA; and journalism and mass communication major; and sophomore; and junior or senior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**JMC 40015 MEDIA MARKETPLACE 3 Credit Hours**

(Slashed with JMC 50015) Exploring management issues unique to media organizations and the impact of those issues on the organization's structure, economics markets and employees. A GPA of 2.700 is required in the major.

**Prerequisite:** JMC 26001 with a minimum C- grade; and minimum 2.000 overall GPA; and journalism and mass communication major; and junior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**JMC 40016 LAW OF ADVERTISING AND PUBLIC RELATIONS 3 Credit Hours**

(Slashed with JMC 50016) Regulation of advertising and corporate speech; first amendment libel and privacy legal problems of new media. A GPA of 2.700 is required in the major.

**Prerequisite:** 18 hours of JMC courses all with a minimum C- grade; and minimum C- grade in JMC 31002 or 31003 or 38002; and minimum 2.000 overall GPA; and advertising or public relations majors.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**JMC 40017 MEDIA ENTERPRISE 3 Credit Hours**

(Slashed with JMC 50017) Explores methods to build and sustain organizations that market and monetize multimedia content to targeted audiences through appropriate distribution streams. Through case studies, examination of evolving best practices in media organizations and elsewhere, students will study and apply enterprise thinking.

**Prerequisite:** JMC 40015 or ENTR 27056.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**JMC 40020 AUDIO AND STILL PHOTO PRODUCTION 3 Credit Hours**

(Slashed with JMC 50020) Develop skills in telling journalistic stories by producing multimedia news stories through research and planning; reporting using digital cameras and digital audio recorders; editing photos and audio. A GPA of 2.700 is required in the major.

**Prerequisite:** JMC 22001 or CCI 12001 with a minimum C- grade; and minimum 2.000 overall GPA; and journalism and mass communication major; and junior or senior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**JMC 40022 FILM AS COMMUNICATION 3 Credit Hours**

Study of the relationship of television and theatre films to the mass audience in terms of components and effects. A GPA of 2.700 is required in the major.

**Prerequisite:** JMC 20004 with a minimum B- grade or JMC 20005 with a minimum C- grade; and minimum 2.000 overall GPA.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter



**JMC 40023 NON-TRADITIONAL JOURNALISM 3 Credit Hours**  
 (Slashed with JMC 50023) The study of journalistic writing that goes beyond the inverted pyramid and traditional feature story and has topics traditionally not defined as news. Students will also work as part of a team on multi-part stories. A GPA of 2.700 is required in the major.  
**Prerequisite:** Minimum grade of C- (1.700) in JMC 26007; 2.000 overall GPA; and Journalism and Mass Communication (JMC) major and Junior or Senior standing.  
**Schedule Type:** Lecture  
**Contact Hours:** 3 lecture  
**Grade Mode:** Standard Letter

**JMC 40027 MANAGING MEDIA DIVERSITY 3 Credit Hours**  
 (Slashed with JMC 50027) Aspects of diversity and how it changes our environment with emphasis on the field of mass communication. A GPA of 2.700 is required in the major.  
**Prerequisite:** Minimum 2.000 overall GPA.  
**Schedule Type:** Lecture  
**Contact Hours:** 3 lecture  
**Grade Mode:** Standard Letter

**JMC 40030 COLLABORATIVE ONLINE PRODUCING 3 Credit Hours**  
 (Slashed with JMC 50030) The use of multimedia and interactive storytelling tools such as video, audio and graphics. Students work in teams to produce packages for online news sites and organizational videos. A GPA of 2.700 is required in the major.  
**Prerequisite:** JMC 40012 with a minimum C- grade; and minimum 2.000 overall GPA; and journalism and mass communication major; and special approval.  
**Schedule Type:** Combined Lecture and Lab  
**Contact Hours:** 2 lecture, 2 lab  
**Grade Mode:** Standard Letter

**JMC 40037 SCRIPTWRITING FOR VIDEO AND FILM 3 Credit Hours**  
 The emphasis of the course is on writing dramatic scripts for broadcast or motion pictures. The course also includes current perspectives on market needs. A GPA of 2.700 is required in the major.  
**Prerequisite:** JMC 23004 or JMC 30004 with a minimum C- grade; and minimum 2.000 overall GPA; and advertising, digital media production, journalism or public relations major.  
**Schedule Type:** Lecture  
**Contact Hours:** 3 lecture  
**Grade Mode:** Standard Letter

**JMC 40092 INTERNSHIP (ELR) 1-6 Credit Hours**  
 (Repeatable for a maximum of 6 credit hours) Experience in a professional setting under professional supervision in student's field of specialization. A GPA of 2.700 is required in the major.  
**Prerequisite:** Minimum 2.000 overall GPA; and special approval.  
**Schedule Type:** Practical Experience  
**Contact Hours:** 10-60 other  
**Grade Mode:** Satisfactory/Unsatisfactory-IP  
**Attributes:** Experiential Learning Requirement

**JMC 40095 SPECIAL TOPICS IN JOURNALISM AND MASS COMMUNICATION 1-3 Credit Hours**  
 (Repeatable for credit) Selected topics of special interest not covered in depth in existing courses; offered as resources permit.  
**Prerequisite:** None.  
**Schedule Type:** Lecture  
**Contact Hours:** 1-3 lecture  
**Grade Mode:** Standard Letter

**JMC 40096 INDIVIDUAL PROJECTS IN MASS COMMUNICATIONS 1-3 Credit Hours**  
 (Repeatable for credit) Individual research projects in mass communications. Letter grades and IP permissible. A GPA of 2.700 is required in the major.  
**Prerequisite:** Minimum 2.000 overall GPA; and junior or senior standing; and special approval.  
**Schedule Type:** Individual Investigation  
**Contact Hours:** 1-3 other  
**Grade Mode:** Standard Letter-IP

**JMC 40099 SENIOR HONORS PROJECT (ELR) 2-4 Credit Hours**  
 Thesis or other independent study project in mass communication. A GPA of 2.700 is required in the major.  
**Prerequisite:** Minimum 2.000 overall GPA; journalism and mass communication majors only; and admitted to the honors college.  
**Schedule Type:** Senior Project/Honors Thesis  
**Contact Hours:** 2-4 other  
**Grade Mode:** Standard Letter-IP  
**Attributes:** Experiential Learning Requirement

**JMC 40192 RADIO-TELEVISION INTERNSHIP (ELR) 1 Credit Hour**  
 (Repeatable once for credit) Experience, under professional supervision in a radio or television station or other industry, using electronic audio or video communications. A GPA of 2.700 is required in the major.  
**Prerequisite:** Minimum 2.000 overall GPA; and special approval.  
**Schedule Type:** Practical Experience  
**Contact Hours:** 1 other  
**Grade Mode:** Satisfactory/Unsatisfactory-IP  
**Attributes:** Experiential Learning Requirement

**JMC 40193 VARIABLE TITLE WORKSHOP IN JMC 1-3 Credit Hours**  
 (Repeatable for credit) (Slashed with JMC 50193) Workshop setting dealing with topics in mass communications. A GPA of 2.700 is required in the major.  
**Prerequisite:** Minimum 2.000 overall GPA; and special approval.  
**Schedule Type:** Workshop  
**Contact Hours:** 1-3 other  
**Grade Mode:** Satisfactory/Unsatisfactory

**JMC 40196 INDEPENDENT STUDY IN RADIO AND TELEVISION 1-3 Credit Hours**  
 (Repeatable for a total of 6 credit hours) Research and writing on topics approved by the students' advisers and study directors. A GPA of 2.700 is required in the major.  
**Prerequisite:** Minimum 2.000 overall GPA; and junior or senior standing; and special approval.  
**Schedule Type:** Individual Investigation  
**Contact Hours:** 1-3 other  
**Grade Mode:** Standard Letter-IP

**JMC 40201 PUBLIC RELATIONS PRACTICE: PUBLIC AFFAIRS 1 Credit Hour**  
 (Slashed with JMC 50201) Provides a basic understanding of the public affairs role in public relations. It specifically examines how external factors surrounding an organization can trigger disruption, opportunity, change, adaptation, and evolution. Students explore techniques for anticipating, managing, adapting, or changing those forces. Primary attention is paid to environmental scanning, issue and stakeholder identification and management, lobbying, advocacy, and ethical implications of public policy. A GPA of 2.700 is required in the major.  
**Prerequisite:** JMC 21005 or JMC 38002 with a minimum C- grade.  
**Schedule Type:** Lecture  
**Contact Hours:** 1 lecture  
**Grade Mode:** Standard Letter



**JMC 40202 PUBLIC RELATIONS PRACTICE: CRISIS COMMUNICATION 1 Credit Hour**

(Slashed with JMC 50202) Provides a basic understanding of the best practices of crisis planning, preparation, communication and management. The course will focus on the critical capabilities, team work and decision making skills required of public relations practitioners during periods of intense organizational turbulence, crisis, and reputational threat across numerous stakeholder groups, including internal, external, public, private and legislative audiences. A GPA of 2.700 is required in the major.

**Prerequisite:** A minimum C- grade in JMC 21005 or JMC 28001.

**Schedule Type:** Lecture

**Contact Hours:** 1 lecture

**Grade Mode:** Standard Letter

**JMC 40295 SELECTED TOPICS IN JOURNALISM AND MASS COMMUNICATION 3 Credit Hours**

(Repeatable for credit) (Slashed with JMC 50295) Selected topics of special interest not covered in depth in existing courses; offered as resources permit. A GPA of 2.700 is required in the major.

**Prerequisite:** Advertising, Digital Media Production, Journalism or Public Relations major or minor.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**JMC 41002 ADVANCED ADVERTISING COPYWRITING 3 Credit Hours**

Advanced copywriting projects in print advertising and corporate communications and execution of the entire print advertising campaigns. A GPA of 2.700 is required in the major.

**Prerequisite:** JMC 31002 and 31003 with a minimum C- grade; and minimum 2.000 overall GPA; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**JMC 41003 ADVERTISING ACCOUNT MANAGEMENT 3 Credit Hours**

An introduction to advertising account management including the functions of an account manager, skills required to be an account manager and how to effectively lead a team of professionals. A GPA of 2.700 is required in the major.

**Prerequisite:** JMC 31002 and JMC 31003 with a minimum C- grade; and minimum 2.000 overall GPA; and advertising, digital media production, fashion media, journalism, media literacy, photojournalism, public relations or visual journalism major or minor.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**JMC 41005 ADVERTISING CAMPAIGNS 3 Credit Hours**

Analysis of the planning, financing and execution of an advertising campaign through case study methods. A GPA of 2.700 is required in the major.

**Prerequisite:** JMC 31002 and 31003 with a minimum C- grade; and minimum 2.000 overall GPA; and advertising, digital media production, fashion media, journalism, media literacy, photojournalism, public relations or visual journalism major or minor.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**JMC 41075 POLITICAL ADVERTISING 3 Credit Hours**

Focuses on analyzing the impact of political advertising on key election cohorts. In this course, students will research and profile key demographic cohorts that will substantially impact the outcome of the election and analyze how current political advertising may impact each cohort. This course is a real-time study of key audience groups and in-market advertising and election tactics and as such its focus will change as the issues and population trends change from semester to semester. A 2.70 GPA is required in the major.

**Prerequisite:** JMC 20008 and JMC 21005 with a minimum C- grade; and minimum 2.000 overall GPA; and advertising major or minor.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**JMC 41080 ACTIVATION ADVERTISING 3 Credit Hours**

Activation advertising, or brand activation, is the activation of the consumer for a brand and driving consumer action, typically by getting consumers to experience the brand. In this course students will begin to understand the consumer path-to-purchase and when a consumer becomes a shopper. Using a variety of resources, students will build strategically sound activation programs based on a big idea and relevant consumer and shopper insights. A 2.70 GPA is required in the major.

**Prerequisite:** JMC 20008 and JMC 21005 with a minimum C- grade; and minimum 2.000 overall GPA; and advertising major or minor.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**JMC 41111 FASHION PUBLISHING 3 Credit Hours**

Introduction to 21st Century Fashion publishing. An overview of the evolution of fashion magazines in print and digital formats, magazine entrepreneurs, the editors role, branding, advertising, circulation, writing and production. A GPA of 2.700 is required in the major.

**Prerequisite:** ENTR 27056 or FDM 35280; and JMC 20005 or JMC 26001 or JMC 20004; and minimum 2.000 overall GPA; and fashion media minor.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**JMC 41150 GLOBAL ADVERTISING AND PUBLIC RELATIONS 3 Credit Hours**

Offers students the opportunity to learn about and engage in exploring issues related to advertising and public relations in various markets around the world. This course may involve travel to a destination market. A GPA of 2.700 is required in the major.

**Prerequisite:** Minimum 2.000 overall GPA; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**JMC 41192 PRACTICUM IN ADVERTISING AND PUBLIC RELATIONS (ELR) 3 Credit Hours**

Designed to provide opportunities for students to engage in applied public relations and advertising projects in collaboration with faculty. This can include such things as competitions and practical experiential learning exercises with on-campus organizations. A 2.700 GPA in the major is required.

**Prerequisite:** Special approval.

**Schedule Type:** Practical Experience

**Contact Hours:** 9 other

**Grade Mode:** Standard Letter

**Attributes:** Experiential Learning Requirement

**JMC 42001 SPORTS PHOTOGRAPHY 3 Credit Hours**

Photographing various college events, including action, portraiture and lighting in a variety of outdoor and indoor venues. Photo captioning, image transmission and archiving and ethics. A GPA of 2.700 is required in the major.

**Prerequisite:** JMC 22004 and JMC 32001 with a minimum C- grade; and minimum 2.000 overall GPA; and school of journalism and mass communication major or minor.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**JMC 42008 ADVANCED PHOTO TECHNIQUES 3 Credit Hours**

Discussion of contemporary photojournalists and issues. Production of photo documentary multimedia and illustrations appropriate to photojournalism. Senior portfolio review. A GPA of 2.700 is required in the major.

**Prerequisite:** JMC 22004 with a minimum C- grade; and minimum 2.000 overall GPA.

**Schedule Type:** Laboratory, Lecture

**Contact Hours:** 2 lecture, 2 lab

**Grade Mode:** Standard Letter

**JMC 42092 PRACTICUM IN PHOTOGRAPHY (ELR) 1-3 Credit Hours**

(Repeatable for a total of 10 hours) (Cross-listed with VCD 48092)

Individual or group investigation into student selected areas of photographic field. A GPA of 2.700 is required in the major.

**Prerequisite:** Minimum 2.000 overall GPA; and junior or senior standing; and special approval.

**Schedule Type:** Lecture, Practical Experience

**Contact Hours:** 1-3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Experiential Learning Requirement

**JMC 43035 ADVANCED TELEVISION NEWS PRODUCING 3 Credit Hours**

(Slashed with JMC 53035) Advanced understanding of how to produce news content for broadcast and the web. A GPA of 2.700 is required in the major.

**Prerequisite:** A minimum C- grade in JMC 46003.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**JMC 43036 RECORD PROMOTION 3 Credit Hours**

(Slashed with JMC 53036) Class operates as an independent record label to critique, select, promote, publicize and sell original recorded music. A GPA of 2.700 is required in the major.

**Prerequisite:** Minimum 2.000 overall GPA; and journalism and mass communication or communications studies major.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**JMC 43092 STUDENT MEDIA PRACTICUM IN JOURNALISM (ELR) 1-3 Credit Hours**

(Repeatable for a maximum of 3 credit hours) Performance of assigned activities in student media under student media supervision. A GPA of 2.700 is required in the major.

**Prerequisite:** JMC 20001 or JMC 20003 with a minimum C- grade; and minimum 2.000 overall GPA; and special approval.

**Schedule Type:** Practical Experience

**Contact Hours:** 3-9 other

**Grade Mode:** Standard Letter

**Attributes:** Experiential Learning Requirement

**JMC 44042 REMOTE TELEVISION 3 Credit Hours**

The study and broadcast of remote events including live sports and other non-scripted shows. A GPA of 2.700 is required in the major.

**Prerequisite:** JMC 20011 with a C- grade; and a minimum C- grade in two of the following courses JMC 30036, JMC 33033 or JMC 33043; and minimum 2.000 overall GPA; and school of journalism and mass communication major.

**Schedule Type:** Laboratory, Lecture, Combined Lecture and Lab

**Contact Hours:** 2 lecture, 2 lab

**Grade Mode:** Standard Letter-IP

**JMC 44043 SPORTS FIELD PRODUCTION 3 Credit Hours**

Video shooting and editing of sports packages and short documentaries. This includes player and coach profiles, highlights and lead-ins. A GPA of 2.700 is required in the major.

**Prerequisite:** JMC 23030 and 23031 with a C- grade; and JMC 30004 with a C- grade; and minimum 2.000 overall GPA; and journalism and mass communication major.

**Corequisite:** JMC 44042.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 2 lecture, 2 lab

**Grade Mode:** Standard Letter-IP

**JMC 44050 POST PRODUCTION SOUND 3 Credit Hours**

(Slashed with JMC 54050) Creating post production sound for visual productions including digital cinema, television, and video games. A GPA of 2.700 is required in the major.

**Prerequisite:** JMC 33033 with a minimum C- grade; and JMC 30036 or JMC 33043 with a minimum C- grade; and minimum 2.000 overall GPA; and major within the School of Journalism and Mass Communication.

**Schedule Type:** Laboratory, Lecture, Combined Lecture and Lab

**Contact Hours:** 1 lecture, 4 lab

**Grade Mode:** Standard Letter

**JMC 44055 SUAS AERIAL CINEMATOGRAPHY 3 Credit Hours**

(Slashed with JMC 54055) Prepares interdisciplinary non-aeronautics majors to operate Small Unmanned Aircraft Systems (sUAS) safely and ethically in news gathering, research, cinematography and applied digital sciences.

**Prerequisite:** A minimum C- grade in both JMC 20011 and JMC 23004; and JMC 30036, JMC 33033 or JMC 33043.

**Schedule Type:** Laboratory, Lecture

**Contact Hours:** 1 lecture, 4 lab

**Grade Mode:** Standard Letter

**JMC 44065 MOBILE MULTIMEDIA 3 Credit Hours**

Developing multimedia content for mobile platforms such as smart phones, tablets or other networked mobile devices.

**Prerequisite:** Minimum C- grade in JMC 20006 or JMC 20009 or EMAT 10310.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**JMC 45000 TELEVISION SPORTS GRAPHICS PRODUCTION 3 Credit Hours**

Techniques in creating and preparing TV and video graphics for live sports events. A GPA of 2.700 is required in the major.

**Prerequisite:** JMC 23030 and 23031 with a C- grade; and JMC 30004 as a pre- or co-requisite with a C- grade; and minimum 2.000 overall GPA; and journalism and mass communication major.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter-IP

**JMC 45001 ADVANCED LIGHTING FOR DIGITAL FILM AND TELEVISION 3 Credit Hours**

(Slashed with JMC 55001) Introduction to theory and technique of lighting for video production. Course includes critical analysis of video lighting situations, the various tools available to light various production locations including interviews and multi-camera narrative scenes. A GPA of 2.700 is required in the major.

**Prerequisite:** JMC 20011 with a minimum C- grade; and two from the following courses JMC 30036, JMC 33033 or JMC 33043; and advertising, digital media production, journalism or public relations major.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**JMC 45005 HISTORICAL DOCUMENTARY PRODUCTION 3 Credit Hours**

(Slashed with JMC 55005) Chronicles the evolution of the historical television documentary and demonstrates the step-by-step production process required to create such a program. Students research and assemble a documentary with an overall appreciation of this genre's purpose in both the television industry and the popular culture. A GPA of 2.700 is required in the major.

**Prerequisite:** Minimum 2.000 overall GPA.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**JMC 45006 PRODUCING AND DIRECTING LIVE TELEVISION 3 Credit Hours**

Class examines the steps to produce and direct live television programming. This includes scripted shows such as news, entertainment, and talk shows as well as unscripted shows such as live sports and remote event productions. For homework students are required to work regular evenings as a producer and or director for TV2. A GPA of 2.700 is required in the major.

**Prerequisite:** JMC 33042 and JMC 44042 with a minimum C- grade; and minimum 2.000 overall GPA; and advertising, digital media production, fashion media, journalism, media literacy, photojournalism, public relations or visual journalism major.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**JMC 45007 PRODUCING FOR PICTURE 3 Credit Hours**

A deep and technical look at filmmaking from business, legal, and logistical perspectives. A GPA of 2.700 is required in the major.

**Prerequisite:** JMC 23140 with a minimum C- grade or JMC 30036 and JMC 33043 with a minimum C- grade; and minimum 2.000 overall GPA; and journalism and mass communication major.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**JMC 45010 FEATURE FILM PREPRODUCTION 3 Credit Hours**

(Slashed with JMC 55010) Gives students practical, hands-on experience in the preproduction of a feature length digital film. Students work on script revising, budgeting, location scouting, casting, developing a script breakdown and developing a daily production schedule for the film. A GPA of 2.700 is required in the major.

**Prerequisite:** JMC 20011 with a minimum C- grade; and minimum 2.000 overall GPA; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**JMC 45011 FEATURE FILM PRODUCTION 6 Credit Hours**

(Slashed with JMC 55011) Provides students with a practical, hands-on experience in the production process of shooting a feature length digital film. Students work on both the organizational aspects as well as the technical aspects of production. This includes production management, craft services, daily call sheets, directing, lighting, cinematography and location sound recording. A GPA of 2.700 is required in the major.

**Prerequisite:** JMC 20011 with a C- grade; and minimum 2.000 overall GPA; and special approval.

**Schedule Type:** Laboratory, Lecture

**Contact Hours:** 2 lecture, 8 lab

**Grade Mode:** Standard Letter

**JMC 45013 FEATURE FILM POST PRODUCTION 3 Credit Hours**

(Slashed with JMC 55013) Advanced video editing course designed to offer students the experience in the postproduction and finishing of a feature length digital narrative film. Students will refine their technical and aesthetic skills through a combination of practice, reading, presenting, viewing and discussion. Students are assigned specific scenes that they are to complete from string out and assembly cut to fine cut and picture lock. Students then work on sound effects, visual effects, titles or color correction. A GPA of 2.700 is required in the major.

**Prerequisite:** JMC 20011 with a minimum C- grade; and special approval.

**Schedule Type:** Laboratory, Lecture

**Contact Hours:** 2 lecture, 2 lab

**Grade Mode:** Standard Letter

**JMC 45020 AVID EDITOR CERTIFICATION 3 Credit Hours**

(Slashed with JMC 55020) Prepares students to take the official Avid Media Composer MC 101 certification exam. A GPA of 2.700 is required in the major. Students who pass the exam will be certified as Avid Video editors.

**Prerequisite:** JMC 30036 with a minimum C- grade; and minimum 2.000 overall GPA; and advertising, digital media production, fashion media, journalism, media literacy, photojournalism, public relations or visual journalism major or minor.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**JMC 46000 NEWSPAPER DESIGN 3 Credit Hours**

(Slashed with JMC 56000) Design of newspapers from small inside pages to elaborate feature pages. News judgment. Basic information graphics and photo editing.

**Prerequisite:** Minimum C- grade in JMC 26001, JMC 20006 and VCD 37000; and minimum 2.750 overall GPA.

**Schedule Type:** Laboratory, Lecture

**Contact Hours:** 3 lecture, 0 lab

**Grade Mode:** Standard Letter

**JMC 46001 INFORMATION GRAPHICS 3 Credit Hours**

(Slashed with JMC 5600) (Cross-listed with VCD 43007) Introduction to shapes, color type and combinations of these for computer designed news graphics maps charts graphs and diagrams. A GPA of 2.700 is required in the major.

**Prerequisite:** JMC 26001 and COMM 21000 with a minimum C- grade; and advertising, digital media production, fashion media, journalism, media literacy, photojournalism, public relations or visual journalism major or minor.

**Schedule Type:** Laboratory, Lecture, Combined Lecture and Lab

**Contact Hours:** 1 lecture, 4 lab

**Grade Mode:** Standard Letter

**JMC 46003 PRODUCING TELEVISION NEWS 3 Credit Hours**  
 (Slashed with JMC 56003) Introduction to the theory and practice of producing content for TV news and public affairs programs. Emphasis is placed on understanding news philosophies, storytelling story selection and rundown placement. A GPA of 2.700 is required in the major.  
**Prerequisite:** JMC 26008 with a minimum C- grade; and minimum 2.000 overall GPA; and journalism and mass communication major.  
**Schedule Type:** Laboratory, Lecture  
**Contact Hours:** 2 lecture, 1 lab  
**Grade Mode:** Standard Letter

**JMC 46006 OPINION WRITING 3 Credit Hours**  
 (Slashed with JMC 56006) Instruction and practice in producing columns and editorials for a variety of audiences. Emphasis on research and reporting to produce thoughtful opinion pieces.  
**Prerequisite:** JMC 26001.  
**Schedule Type:** Lecture  
**Contact Hours:** 3 lecture  
**Grade Mode:** Standard Letter

**JMC 46007 INVESTIGATIVE REPORTING 3 Credit Hours**  
 (Slashed with JMC 56007) Techniques involved in researching, interviewing and reporting investigative news articles and analyses. A GPA of 2.700 is required in the major.  
**Prerequisite:** JMC 26007 with a C- grade or JMC 26008 with a C- grade; and minimum 2.000 overall GPA; and journalism and mass communication major.  
**Schedule Type:** Lecture  
**Contact Hours:** 3 lecture  
**Grade Mode:** Standard Letter

**JMC 46009 REPORTING PUBLIC POLICY 3 Credit Hours**  
 (Slashed with JMC 56009) Instruction and practice in reporting all areas of public affairs, including government and the courts. Use of precision journalism techniques. A GPA of 2.700 is required in the major.  
**Prerequisite:** JMC 26007 or 26008 with a C- grade; and minimum 2.000 overall GPA; and journalism and mass communication major.  
**Schedule Type:** Laboratory, Lecture, Combined Lecture and Lab  
**Contact Hours:** 1 lecture, 4 lab  
**Grade Mode:** Standard Letter

**JMC 46016 BUSINESS OF PUBLISHING 3 Credit Hours**  
 (Slashed with JMC 56016) Overview of publishing in digital and print formats, media entrepreneurship, role of editorial, advertising, circulation, production, branding and social media. A GPA of 2.700 is required in the major.  
**Prerequisite:** COMM 21000, JMC 26001 and ENTR 27056 with a minimum C- grade; and minimum 2.000 overall GPA; and journalism and mass communication major; and junior standing.  
**Schedule Type:** Lecture  
**Contact Hours:** 3 lecture  
**Grade Mode:** Standard Letter

**JMC 46020 MAGAZINE DESIGN 3 Credit Hours**  
 (Slashed with JMC 56020) Marriage of words and visuals for designing magazine layouts and covers in desktop publishing. A GPA of 2.700 is required in the major.  
**Prerequisite:** A minimum C- grade in JMC 26001.  
**Schedule Type:** Laboratory, Lecture, Combined Lecture and Lab  
**Contact Hours:** 1 lecture, 4 lab  
**Grade Mode:** Standard Letter

**JMC 46021 ADVANCED MAGAZINE WRITING 3 Credit Hours**  
 (Slashed with JMC 56021) Research, interviewing writing and marketing of major magazine articles. Also editing techniques for magazines. A GPA of 2.700 is required in the major.  
**Prerequisite:** JMC 36005 and 36018 with a minimum C- grade; and minimum 2.000 overall GPA.  
**Schedule Type:** Lecture  
**Contact Hours:** 3 lecture  
**Grade Mode:** Standard Letter

**JMC 46052 ADVANCED BROADCAST REPORTING 3 Credit Hours**  
 (Slashed with JMC 56052) Advanced study of reporting news stories, newsroom operations, editing and producing broadcast news programs. Advanced projects in broadcast news. A GPA of 2.700 is required in the major.  
**Prerequisite:** JMC 26008 with a C- grade; and minimum 2.000 overall GPA.  
**Schedule Type:** Lecture  
**Contact Hours:** 3 lecture  
**Grade Mode:** Standard Letter

**JMC 46054 BROADCAST DOCUMENTARY 3 Credit Hours**  
 (Slashed with JMC 56054) Development of documentary form for radio and television. Analysis and production of documentaries. Utilization of audio and video recording and editing. A GPA of 2.700 is required in the major.  
**Prerequisite:** JMC 26008 or two of the following: JMC 33033, JMC 33034, JMC 33042, JMC 33043 with a minimum C- grade; and minimum 2.000 overall GPA.  
**Schedule Type:** Laboratory, Lecture  
**Contact Hours:** 2 lecture, 2 lab  
**Grade Mode:** Standard Letter

**JMC 46055 DOCUMENTARY AND ENTREPRENEURIAL PHOTOGRAPHY 3 Credit Hours**  
 Exploring techniques that allow students desiring to make a difference in the world with their visual story-telling skills and make a living. Students work with local and regional non-profits and non-governmental agencies to develop photo reports and increase visibility and understanding with still and multimedia. A GPA of 2.700 is required in the major.  
**Prerequisite:** JMC 32001, JMC 32005 and ENTR 27056 with a minimum C- grade; and minimum 2.000 overall GPA; and school of journalism and mass communication major or minor.  
**Schedule Type:** Lecture  
**Contact Hours:** 3 lecture  
**Grade Mode:** Standard Letter

**JMC 46057 MOTION GRAPHICS FOR VIDEO EDITING 3 Credit Hours**  
 (Slashed with JMC 56057) Covers the creation of motion graphics for video editing from the perspective of a professional editor. Students learn basic video effects such as digital matte creation and layered graphics for video productions. Students also gain a basic understanding of how to convert and compress video files for various deliverable formats. Adobe After Effects is the industry standard software application for creating motion graphics and will be used extensively in the course. A GPA of 2.700 is required in the major.  
**Prerequisite:** JMC 20011 with a minimum C- grade; and a minimum C- grade in two of the following courses JMC 30036, JMC 33033 or JMC 33043; and minimum 2.000 overall GPA; and advertising, digital media production, journalism or public relations major.  
**Schedule Type:** Lecture  
**Contact Hours:** 3 lecture  
**Grade Mode:** Standard Letter



**JMC 46091 NEW YORK MEDIA SEMINAR 3 Credit Hours**

Introduction of students to the New York media, the thinking of industry professionals and the job opportunities in the city. Students attend presentations by media professionals and seminars to discuss media based in New York City. A GPA of 2.700 is required in the major.

**Prerequisite:** Minimum 2.000 overall GPA; and sophomore, junior or senior standing in the college of communication and information; and special approval.

**Schedule Type:** Seminar

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**JMC 46395 SPECIAL TOPICS IN JOURNALISM PRACTICE 3 Credit Hours**

(Repeatable three times for credit) Special topics in journalism practice.

**Prerequisite:** Special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**JMC 47003 TEACHING HIGH SCHOOL JOURNALISM 3 Credit Hours**

Methods and materials for teaching journalism in high school.

**Prerequisite:** Junior or senior standing; and special approval of instructor.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**JMC 48001 MEDIA RELATIONS AND PUBLICITY (WIC) 3 Credit Hours**

(Slashed with JMC 58001) Planning and preparation of materials for use by the news media, both on paper and online. The course explores the media relations function along with the uses and limitations of mass media in public relations practice. A GPA of 2.700 is required in the major.

**Prerequisite:** JMC 26001; and JMC 26007 or 26008; and JMC 38002 all with a C- grade; and minimum 2.000 overall GPA; and journalism and mass communication major.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Writing Intensive Course

**JMC 48002 PUBLIC RELATIONS TACTICS 3 Credit Hours**

(Slashed with JMC 58002) Planning and preparation of face-to-face public relations tactics, including spokesperson training for on- and off-camera appearances, special event planning, speeches and presentations with visual support and other applications of 'writing for the ear.' A minimum 2.700 major GPA is required.

**Prerequisite:** JMC 26001 and JMC 38002 with a minimum C grade; and minimum 2.000 overall GPA.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**JMC 48003 DIGITAL PUBLIC RELATIONS 3 Credit Hours**

(Slashed with JMC 58003) Explores fundamentals of web site planning and design and provides hands-on skills development using the full range of cybermedia techniques. Includes emphasis on writing for online audiences. A GPA of 2.700 is required in the major.

**Prerequisite:** JMC 20008, JMC 26001, JMC 26007 or JMC 26008, JMC 28001, JMC 31007 and JMC 38002 with minimum C- grades; and 2.000 overall GPA.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**JMC 48006 PUBLIC RELATIONS PUBLICATIONS 3 Credit Hours**

(Slashed with JMC 58006 ) Planning, writing and design of organizational publications including newsletters brochures flyers promotional mailers and web sites. Course also explores the print production process. A GPA of 2.700 is required in the major.

**Prerequisite:** JMC 26001 with a C- grade; and public relations major or minor.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**JMC 48091 SEMINAR: PUBLIC RELATIONS CAMPAIGNS 3 Credit Hours**

(Repeatable for credit) This capstone course in the public relations major requires student teams to combine research, planning and execution into a single public relations campaign developed for a real world organization. A GPA of 2.700 is required in the major.

**Prerequisite:** JMC 26007 or 26008; and JMC 38002; and three of the four--JMC 48001 and 48002 and 48003 and 48006 all with a C- grade; and minimum 2.000 overall GPA.

**Schedule Type:** Seminar

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**JMC 49005 MUSIC VIDEO PRODUCTION 3 Credit Hours**

(Slashed with JMC 59005) Teaches the process of producing and directing a music video. It covers the history of music videos and how some become movies as well as writing a script, storyboarding, working with rough cuts and shooting a music video. Students also learn how to create and pitch proposals.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**JMC 49021 CORPORATE VIDEO 3 Credit Hours**

(Slashed with JMC 59021) The use of video in corporate and organizational environments. Emphasis is placed on the structure and function of the medium within each environment. A GPA of 2.700 is required in the major.

**Prerequisite:** Two of the following: JMC 33033 and 33042 and 33043 with a minimum C- grade; and minimum 2.000 overall GPA; and journalism and mass communication major.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**JMC 49099 PRODUCTION II (ELR) 3 Credit Hours**

Facilitates the completion of a digital film or television project. A GPA of 2.700 is required in the major.

**Prerequisite:** A minimum C- grade in either JMC 23140 or JMC 45007; and senior standing.

**Schedule Type:** Laboratory, Lecture, Project or Capstone

**Contact Hours:** 1 lecture, 4 lab

**Grade Mode:** Standard Letter-IP

**Attributes:** Experiential Learning Requirement



**JMC 50002 REPORTING FOR MASS MEDIA 3 Credit Hours**  
 (Slashed with JMC 40002) Theory and practice in newswriting and reporting; news values and news judgment; lead and story development; techniques of gathering information and dealing with sources of news; writing for deadline. Hours do not count toward degree.  
**Prerequisite:** Graduate standing; and special approval.  
**Schedule Type:** Lecture  
**Contact Hours:** 3 lecture  
**Grade Mode:** Standard Letter

**JMC 50003 EDITING FOR MASS MEDIA 3 Credit Hours**  
 Theory and practice in copy editing, headline writing and editing photographs and information graphics for print and on-line publications. Hours do not count toward degree.  
**Prerequisite:** JMC 50002; and graduate standing.  
**Schedule Type:** Lecture  
**Contact Hours:** 3 lecture  
**Grade Mode:** Standard Letter

**JMC 50004 COMPUTER-ASSISTED REPORTING 3 Credit Hours**  
 Computer analysis of large data sets focusing on government, court, police records, for preparation of news stories, basics of on-line searching; software and databases.  
**Prerequisite:** JMC 50002; and graduate standing.  
**Schedule Type:** Laboratory, Lecture  
**Contact Hours:** 3 lecture, 0 lab  
**Grade Mode:** Standard Letter

**JMC 50006 LAW OF MASS COMMUNICATION 3 Credit Hours**  
 Libel and slander; privacy, copyright, obscenity; regulation of advertising and broadcasting; antitrust law and mass media; legal problems reporting courts, legislatures; taxation, licensing.  
**Prerequisite:** Graduate standing.  
**Schedule Type:** Lecture  
**Contact Hours:** 3 lecture  
**Grade Mode:** Standard Letter

**JMC 50007 REVIEWING THE ARTS 2 Credit Hours**  
 Reviewing and criticism of performing, visual and literary arts. Emphasis on books, film, TV and theater.  
**Prerequisite:** Graduate standing; and special approval.  
**Schedule Type:** Lecture  
**Contact Hours:** 2 lecture  
**Grade Mode:** Standard Letter

**JMC 50012 ONLINE JOURNALISM 3 Credit Hours**  
 Study and evaluation of online news and news sites; reporting and writing for online news media; design, production and maintenance of an online news site; ethical, legal and economic issues related to online news.  
**Prerequisite:** JMC 50002; and graduate standing.  
**Schedule Type:** Lecture  
**Contact Hours:** 3 lecture  
**Grade Mode:** Standard Letter

**JMC 50013 TELEVISION SPORTS PRODUCTION 3 Credit Hours**  
 A comprehensive study of the production of live action television sports coverage.  
**Prerequisite:** Journalism and mass communication major; and graduate standing.  
**Schedule Type:** Lecture  
**Contact Hours:** 3 lecture  
**Grade Mode:** Standard Letter

**JMC 50015 MEDIA MARKETPLACE 3 Credit Hours**  
 A study of administrative problems, methods, procedures in the management of media corporations.  
**Prerequisite:** Graduate standing.  
**Schedule Type:** Lecture  
**Contact Hours:** 3 lecture  
**Grade Mode:** Standard Letter

**JMC 50016 LAW FOR ADVERTISING AND PUBLIC RELATIONS 3 Credit Hours**  
 Regulation of advertising and public relations; first amendment; libel and privacy; legal problems of new media; research in persuasive media.  
**Prerequisite:** Graduate standing; and special approval.  
**Schedule Type:** Lecture  
**Contact Hours:** 3 lecture  
**Grade Mode:** Standard Letter

**JMC 50017 MEDIA ENTERPRISE 3 Credit Hours**  
 (Slashed with JMC 40017) Explores methods to build and sustain organizations that market and monetize multimedia content to targeted audiences through appropriate distribution streams. Through case studies, examination of evolving best practices in media organizations and elsewhere, students will study and apply enterprise thinking. Other CCI majors outside of JMC can enroll in the course with special approval from the JMC graduate coordinator.  
**Prerequisite:** Journalism and mass communication major; and graduate standing.  
**Schedule Type:** Lecture  
**Contact Hours:** 3 lecture  
**Grade Mode:** Standard Letter

**JMC 50020 AUDIO AND STILL PHOTO PRODUCTION 3 Credit Hours**  
 Develop skills in telling journalistic stories by producing multimedia news stories through research and planning; reporting using digital cameras and digital audio recorders; editing photos and audio.  
**Prerequisite:** Journalism and mass communication major; and graduate standing.  
**Schedule Type:** Lecture  
**Contact Hours:** 3 lecture  
**Grade Mode:** Standard Letter

**JMC 50023 NON-TRADITIONAL JOURNALISM 3 Credit Hours**  
 The study of journalistic writing that goes beyond the inverted pyramid and traditional feature story and has topics traditionally not defined as news. Students will also work as part of a team on multi-part stories.  
**Prerequisite:** Journalism and mass communication major; and graduate standing.  
**Schedule Type:** Lecture  
**Contact Hours:** 3 lecture  
**Grade Mode:** Standard Letter

**JMC 50027 MANAGING MEDIA DIVERSITY 3 Credit Hours**  
 Aspects of diversity and how it changes our environment with emphasis on the field of mass communication.  
**Prerequisite:** Graduate standing.  
**Schedule Type:** Lecture  
**Contact Hours:** 3 lecture  
**Grade Mode:** Standard Letter

**JMC 50030 COLLABORATIVE ONLINE PRODUCING 3 Credit Hours**

The use of multimedia and interactive storytelling rules such as video, audio and graphics. Students work in teams to produce packages for online news sites and organizational videos.

**Prerequisite:** Journalism and mass communication major; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture, 2 lab

**Grade Mode:** Standard Letter

**JMC 50037 SCRIPTWRITING FOR VIDEO AND FILM 3 Credit Hours**

The emphasis of the course is on writing dramatic scripts for broadcast or motion pictures. The course also includes current perspectives on market needs.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**JMC 50193 VARIABLE TITLE WORKSHOP IN JOURNALISM AND MASS COMMUNICATION 1-3 Credit Hours**

(Repeatable for credit) Intensive study of professional issues and problems in various areas of mass communication, utilizing the expertise of faculty and professionals in the field.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Workshop

**Contact Hours:** 1-3 other

**Grade Mode:** Satisfactory/Unsatisfactory

**JMC 50201 PUBLIC RELATIONS PRACTICE: PUBLIC AFFAIRS 1 Credit Hour**

(Slashed with JMC 40201) Provides a basic understanding of the public affairs role in public relations. It specifically examines how external factors surrounding an organization can trigger disruption, opportunity, change, adaptation, and evolution. Students explore techniques for anticipating, managing, adapting, or changing those forces. Primary attention is paid to environmental scanning, issue and stakeholder identification and management, lobbying, advocacy, and ethical implications of public policy.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 1 lecture

**Grade Mode:** Standard Letter

**JMC 50202 PUBLIC RELATIONS PRACTICE: CRISIS COMMUNICATION 1 Credit Hour**

(Slashed with JMC 40202) Provides a basic understanding of the best practices of crisis planning, preparation, communication and management. The course will focus on the critical capabilities, team work and decision making skills required of public relations practitioners during periods of intense organizational turbulence, crisis, and reputational threat across numerous stakeholder groups, including internal, external, public, private and legislative audiences.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 1 lecture

**Grade Mode:** Standard Letter

**JMC 50295 SELECTED TOPICS IN JOURNALISM AND MASS COMMUNICATION 3 Credit Hours**

(Repeatable for credit) (Slashed with JMC 40295) Selected topics of special interest not covered in depth in existing courses; offered as resources permit.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**JMC 53035 ADVANCED TELEVISION NEWS PRODUCING 3 Credit Hours**

Advanced understanding of how to produce news content for broadcast and the web.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**JMC 53036 RECORD PROMOTION 3 Credit Hours**

(Slashed with JMC 43036) Class operates as an independent record label to critique, select, promote, publicize and seal original recorded music.

**Prerequisite:** Journalism and mass communication major; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**JMC 53042 STUDIO TELEVISION 3 Credit Hours**

Study of all positions of a live television program including technical directing, floor directing, graphics, digital playback, and audio engineering. Two hours lecture and two hours lab.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Laboratory, Lecture

**Contact Hours:** 2 lecture, 2 lab

**Grade Mode:** Standard Letter

**JMC 54050 POST PRODUCTION SOUND 3 Credit Hours**

(Slashed with JMC 44050) Creating post production sound for visual productions including digital cinema and television.

**Prerequisite:** Journalism and mass communication major; and graduate standing; and special approval.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 2 lecture, 2 lab

**Grade Mode:** Standard Letter

**JMC 54055 SUAS AERIAL CINEMATOGRAPHY 3 Credit Hours**

(Slashed with JMC 44055) Prepares interdisciplinary non-aeronautics majors to operate Small Unmanned Aircraft Systems (sUAS) safely and ethically in news gathering, research, cinematography and applied digital sciences.

**Prerequisite:** Graduate standing.

**Schedule Type:** Laboratory, Lecture

**Contact Hours:** 1 lecture, 4 lab

**Grade Mode:** Standard Letter

**JMC 55001 ADV LIGHTING DIGITAL FILM/TV 3 Credit Hours**  
 (Slashed with JMC 45001) Introduction to theory and technique of lighting for video production. Includes critical analysis of video lighting situations, the various tools available to light various production locations including interviews and multi-camera narrative scenes.  
**Prerequisite:** Journalism and mass communication major; and graduate standing; and special approval.  
**Schedule Type:** Lecture  
**Contact Hours:** 3 lecture  
**Grade Mode:** Standard Letter

**JMC 55005 HISTORICAL DOCUMENTARY PRODUCTION 3 Credit Hours**  
 Chronicles the evolution of the historical television documentary and demonstrates the step-by-step production process required to create such a program. Students research and assemble a documentary with an overall appreciation of this genre's purpose in both the television industry and the popular culture.  
**Prerequisite:** Graduate standing.  
**Schedule Type:** Lecture  
**Contact Hours:** 3 lecture  
**Grade Mode:** Standard Letter

**JMC 55010 FEATURE FILM PREPRODUCTION 3 Credit Hours**  
 (Slashed with JMC 45010) Gives students practical, hands-on experience in the preproduction of a feature length digital film. Students work on script revising, budgeting, location scouting, casting, developing a script breakdown, and developing a daily production schedule for the film. Graduate students are expected to take a leadership position in the preproduction of the film.  
**Prerequisite:** Journalism and mass communication major; and graduate standing; and special approval.  
**Schedule Type:** Lecture  
**Contact Hours:** 3 lecture  
**Grade Mode:** Standard Letter

**JMC 55011 FEATURE FILM PRODUCTION 6 Credit Hours**  
 (Slashed with JMC 45011) Provides students with a practical, hands-on experience in the production process of shooting a feature length digital film. Students will study the theory of film making and work on both the organizational and managerial aspects as well as the technical aspects of production. This includes production management, craft services, daily call sheets, directing, lighting, cinematography and location sound recording.  
**Prerequisite:** Graduate standing; and special approval.  
**Schedule Type:** Laboratory, Lecture  
**Contact Hours:** 2 lecture, 8 lab  
**Grade Mode:** Standard Letter

**JMC 55013 FEATURE FILM POST PRODUCTION 3 Credit Hours**  
 (Slashed with JMC 45013) Advanced Video editing course designed to offer students the experience in the postproduction and finishing of a feature length digital narrative film. The students will refine their technical and aesthetic skills through a combination of practice, reading, presenting, viewing and discussion. Students are assigned specific scenes that they are to complete from string out and assembly cut to fine cut and picture lock. Students work on sound effects, visual effects, titles or color correction. In addition, graduate students assume a leadership position.  
**Prerequisite:** Journalism and mass communication major; and graduate standing; and special approval.  
**Schedule Type:** Laboratory, Lecture  
**Contact Hours:** 2 lecture, 2 lab  
**Grade Mode:** Standard Letter

**JMC 55020 AVID EDITOR CERTIFICATION 3 Credit Hours**  
 Prepares students to take the official Avid Media Composer MC 101 certification exam. Students who pass the exam will be certified as Avid video editors.  
**Prerequisite:** Journalism and mass communication major; and graduate standing; and special approval.  
**Schedule Type:** Lecture  
**Contact Hours:** 3 lecture  
**Grade Mode:** Standard Letter

**JMC 55051 REPORTING BROADCAST NEWS 3 Credit Hours**  
 Gathering and preparing broadcast news, with emphasis on unique style and presentation methods of broadcast media. Use of both audio and video recorders and editing equipment.  
**Prerequisite:** JMC 50002; and graduate standing.  
**Schedule Type:** Lecture  
**Contact Hours:** 3 lecture  
**Grade Mode:** Standard Letter

**JMC 56000 NEWSPAPER DESIGN 3 Credit Hours**  
 Design of newspapers from small inside pages to elaborate feature pages. News judgment. Basic information graphics and photo editing.  
**Prerequisite:** JMC 50003; and graduate standing.  
**Schedule Type:** Laboratory, Lecture  
**Contact Hours:** 3 lecture, 0 lab  
**Grade Mode:** Standard Letter

**JMC 56001 INFORMATION GRAPHICS 3 Credit Hours**  
 Introduction to shapes, color, type and combinations of these for computer-designed news graphics: maps, charts, graphs and diagrams.  
**Prerequisite:** Graduate standing; and special approval.  
**Schedule Type:** Laboratory, Lecture, Combined Lecture and Lab  
**Contact Hours:** 1 lecture, 4 lab  
**Grade Mode:** Standard Letter

**JMC 56003 PRODUCING TELEVISION NEWS 3 Credit Hours**  
 (Slashed with JMC 46003) Knowledge of the theory and practice of producing content for TV news and public affairs programs. Emphasis is placed on understanding news philosophies, storytelling story selection and rundown placement.  
**Prerequisite:** JMC 55051; and journalism and mass communication major; and graduate standing.  
**Schedule Type:** Laboratory, Lecture  
**Contact Hours:** 2 lecture, 1 lab  
**Grade Mode:** Standard Letter

**JMC 56006 OPINION WRITING 3 Credit Hours**  
 (Slashed with JMC 56006) Instruction and practice in producing columns and editorials for a variety of audiences. Emphasis on research and reporting to produce thoughtful opinion pieces.  
**Prerequisite:** JMC 66011; and graduate standing.  
**Schedule Type:** Lecture  
**Contact Hours:** 3 lecture  
**Grade Mode:** Standard Letter

**JMC 56007 INVESTIGATIVE REPORTING 3 Credit Hours**  
 (Slashed with JMC 46007) Techniques involved in researching, interviewing and reporting investigative news articles and analyses.  
**Prerequisite:** JMC 50002; and graduate standing.  
**Schedule Type:** Lecture  
**Contact Hours:** 3 lecture  
**Grade Mode:** Standard Letter

**JMC 56009 REPORTING PUBLIC POLICY 3 Credit Hours**

Instruction and practice in reporting all areas of public affairs, including government and the courts. Use of precision journalism techniques.

**Prerequisite:** JMC 50002; and graduate standing.

**Schedule Type:** Laboratory, Lecture, Combined Lecture and Lab

**Contact Hours:** 1 lecture, 4 lab

**Grade Mode:** Standard Letter

**JMC 56016 BUSINESS OF PUBLISHING 3 Credit Hours**

(Slashed with JMC 46016) Overview of publishing in digital and print formats, media entrepreneurship, role of editorial, advertising, circulation, production, branding and social media.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**JMC 56018 FEATURE WRITING 3 Credit Hours**

Researching, writing and placement of feature stories in publications.

**Prerequisite:** JMC 50002; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**JMC 56020 MAGAZINE DESIGN 3 Credit Hours**

Marriage of words and visuals for designing magazine layouts and covers in desktop publishing.

**Prerequisite:** JMC 50002; JMC 50003; JMC 56016; and graduate standing.

**Schedule Type:** Laboratory, Lecture, Combined Lecture and Lab

**Contact Hours:** 1 lecture, 4 lab

**Grade Mode:** Standard Letter

**JMC 56021 ADVANCED MAGAZINE WRITING 3 Credit Hours**

Research, interviewing, writing and marketing of major magazine articles. Also editing techniques for magazines.

**Prerequisite:** JMC 50002 and JMC 50003; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**JMC 56052 ADVANCED BROADCAST REPORTING 3 Credit Hours**

(Slashed with JMC 46052) Advanced study of reporting news stories, newsroom operations editing and producing broadcast news programs. Advanced projects in broadcast news.

**Prerequisite:** JMC 55051 or JMC 56054; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**JMC 56054 BROADCAST DOCUMENTARY 3 Credit Hours**

Development of the documentary form for radio/TV; analysis, production of radio/ TV documentary; utilization of audio/video recording/editing.

**Prerequisite:** JMC 55051.

**Schedule Type:** Laboratory, Lecture

**Contact Hours:** 3 lecture, 0 lab

**Grade Mode:** Standard Letter

**JMC 56057 MOTION GRAPHICS FOR VIDEO EDITING 3 Credit Hours**

Covers the creation of motion graphics for video editing from the perspective of a professional editor. Students learn basic video effects such as digital matte creation and layered graphics for video productions. Students also gain a basic understanding of how to covert and compress video files for various deliverable formats. Adobe After Effects is the industry standard software application for creating motion graphics and will be used extensively in this course.

**Prerequisite:** Journalism and mass communication major; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**JMC 56091 NEW YORK MEDIA SEMINAR 3 Credit Hours**

Introduction of students to the New York media, the thinking of industry professionals and the job opportunities in the city. Students will attend presentations by media professionals and seminars to discuss media based in New York City.

**Prerequisite:** Graduate standing in the college of communication and information.

**Schedule Type:** Seminar

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**JMC 57003 TEACHING HIGH SCHOOL JOURNALISM 3 Credit Hours**

Methods and materials for teaching journalism in high school.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**JMC 58001 MEDIA RELATIONS AND PUBLICITY 3 Credit Hours**

Planning and preparation of materials for use by news media, both on paper and Online. Analysis of media relations function and media relations strategies. Uses and limitations of mass media in public relations practice.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**JMC 58002 PUBLIC RELATIONS TACTICS 3 Credit Hours**

(Slashed with JMC 48002) Planning and preparation of face-to-face public relations tactics, including spokesperson training for on- and off-camera appearances, special event planning, speeches and presentations with visual support and other applications of 'writing for the ear.'

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**JMC 58003 DIGITAL PUBLIC RELATIONS 3 Credit Hours**

Explore fundamentals of web site planning and design and provide hands-on skills development using the full range of cyber media techniques. Includes emphasis on writing for online audiences.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter



**JMC 58006 PUBLIC RELATIONS PUBLICATIONS 3 Credit Hours**  
 Planning, writing and design of organizational publications including newsletters, brochures, fliers and promotional materials.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**JMC 59005 MUSIC VIDEO PRODUCTION 3 Credit Hours**

(Slashed with JMC 49005) Teaches the process of producing and directing a music video. It covers the history and social impact of music videos. It includes some research into this social impact. Also storyboarding, scriptwriting, working with rough cuts, shooting a video, creating and pitching proposals.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**JMC 59021 CORPORATE VIDEO 3 Credit Hours**

The use of video in the legal, medical and corporate environments. Emphasis is placed on the structure and function of the medium within each environment.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**JMC 60000 INTRODUCTION TO GRADUATE STUDIES IN JOURNALISM AND MASS COMMUNICATION 3 Credit Hours**

An introductory survey of the various areas of professional and scholarly concentration in the fields of journalism and mass communication. Consideration of the relationship between professional practice and scholarly activity in those fields.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**JMC 60001 THEORY OF MASS COMMUNICATION 3 Credit Hours**

(Slashed with JMC 60001) Introduction to theory of mass communication, with emphasis on the process and effects of mass communication.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**JMC 60002 LEGAL PROBLEMS IN MASS COMMUNICATION 3 Credit Hours**

Case studies related to the first amendment, libel, invasion of privacy, regulation of broadcasting and new media copyright, and access to information. Course focus will be the theories underlying these issues as well as practical application of the legal concepts.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**JMC 60003 TEACHING JOURNALISM ETHICS 3 Credit Hours**

Study of ethical problems of mass media in society; analysis of media policies; performance evaluation.

**Prerequisite:** Journalism and mass communication major; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**JMC 60004 CYBERMEDIA LAW 3 Credit Hours**

Investigates how the law affects those who gather information and publish online, including issues relating to blogging, web site hosting, posting and online journalism, along with a basic ability to apply that knowledge in specific situations. Focus is on both existing law and developing public policy.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**JMC 60007 RESEARCH METHODS IN MASS COMMUNICATION 3 Credit Hours**

(Slashed with JMC 80007) Investigates social science methods applicable to the study of mass communication, including survey, content analysis, experimental, and focus group approaches. Emphasis is on original and secondary data collection, data analysis, and interpreting and reporting research results for scholarly and lay audiences.

**Prerequisite:** Journalism and mass communication major; and graduate standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**JMC 60009 SOCIAL ROLE OF THE MASS MEDIA 3 Credit Hours**

Application of professional, theoretical, historical, economic and political perspectives to examine the role of mass media in society both in terms of structure and function.

**Prerequisite:** Journalism and mass communication major; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**JMC 60010 QUALITATIVE RESEARCH IN JOURNALISM AND MASS COMMUNICATION: DATA COLLECTION 3 Credit Hours**

(Slashed with JMC 80010) Designed to develop skills in qualitative data collection in journalism and mass communication with primary focus on human subjects and textual data.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**JMC 60011 THEORY AND SOCIETAL ROLE OF MASS MEDIA 3 Credit Hours**

(Slashed with JMC 80011) Review theories of the processes and effects of mass communication and how these apply to the work of media professionals or those in the scholastic and collegiate journalism teaching environment. Examines origins, nature, consequences of mass communication and mediated interactions.

**Prerequisite:** Journalism mass communication major; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter



**JMC 60012 MASS COMMUNICATION LAW AND ETHICS 3 Credit Hours**

(Slashed with JMC 80012) General overview of issues and problems in mass communication law and ethics including libel, privacy, copyright, intellectual property, regulation of advertising and broadcasting, ethical decision making, ethical decision-making tools and a simple overview of ethics theory.

**Prerequisite:** Journalism mass communication major; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**JMC 60015 ADVANCED MEDIA MANAGEMENT 3 Credit Hours**

Theory and practice of management operations and problem-solving techniques specifically related to media companies. Emphasis will be using case studies from the media.

**Prerequisite:** JMC 50015; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**JMC 60021 LITERARY JOURNALISM 3 Credit Hours**

Research, interviewing, writing and marketing major magazine articles for online and print publications.

**Prerequisite:** JMC 50002; and graduate standing; or special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**JMC 60040 QUALITATIVE RESEARCH METHODS IN JOURNALISM AND MASS COMMUNICATION: DATA ANALYSIS 3 Credit Hours**

Emphasizes the development of skills in the analysis of data collected through qualitative research methods, particularly interviews and ethnographies. Designed to help prepare graduate students who plan to use qualitative methods in their academic or applied research, particularly those who are adopting these methods for theses or dissertations.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**JMC 60096 INDIVIDUAL INVESTIGATION IN MASS COMMUNICATION 1-3 Credit Hours**

(Repeatable for a maximum of 6 credit hours) Individual investigation of selected area or problem approved by graduate faculty.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Individual Investigation

**Contact Hours:** 1-3 other

**Grade Mode:** Standard Letter-IP

**JMC 60098 RESEARCH 1-15 Credit Hours**

(Repeatable for credit) Research or individual investigation for master's level graduate students. Credits earned may be applied toward meeting degree requirements if school approves. Maximum of 3 hours may be applied to degree if school approves.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Research

**Contact Hours:** 1-15 other

**Grade Mode:** Satisfactory/Unsatisfactory

**JMC 60195 SPECIAL TOPICS SEMINAR 1-3 Credit Hours**

(Repeatable for credit) Study of important topics in mass communication. Offered irregularly in response to existing interests and opportunities.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 1-3 lecture

**Grade Mode:** Standard Letter-IP

**JMC 60196 READINGS IN MASS COMMUNICATIONS 1-3 Credit Hours**

(Repeatable for credit) Student pursues course of readings approved by instructor to cover subject specialty student cannot obtain from formal course offerings.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Individual Investigation

**Contact Hours:** 1-3 other

**Grade Mode:** Standard Letter-IP

**JMC 60199 THESIS I 2-6 Credit Hours**

Thesis students must register for a total of 6 hours, 2 to 6 hours in single semester distributed over several semesters if desired.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Masters Thesis

**Contact Hours:** 2-6 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**JMC 60295 SPECIAL TOPICS IN COMPUTER LAB 1-3 Credit Hours**

(Repeatable for credit) Selected topics of special interest not covered in depth in existing courses; offered as resources permit.

**Prerequisite:** Special approval.

**Schedule Type:** Laboratory

**Contact Hours:** 1-3 lab

**Grade Mode:** Standard Letter

**JMC 60296 ADVANCED READINGS IN JOURNALISM AND MASS COMMUNICATION 3 Credit Hours**

(Repeatable for credit) Consolidation and synthesis of learning experiences in the graduate program. Application of graduate study to future professional careers. Updates on latest developments in the fields of JMC and their impact on the future of academic study and professional practice in the discipline.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Individual Investigation

**Contact Hours:** 3 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**JMC 60299 THESIS II 2 Credit Hours**

Thesis student must continue registration each semester until all degree requirements are met.

**Prerequisite:** JMC 60199; and graduate standing.

**Schedule Type:** Masters Thesis

**Contact Hours:** 2 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**JMC 60396 MASTER'S PROFESSIONAL PROJECT 3 Credit Hours**

Completion and defense of a substantial professional project in one of the fields of journalism and mass communication.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Individual Investigation

**Contact Hours:** 3 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**JMC 60701 ADVISING STUDENT MEDIA 3 Credit Hours**

A high school journalism adviser should advise and not do student work or act as editor. This is not easy because of pressure both inside and outside the school. This course helps advisers learn how to create and maintain good relationships with all involved, understand press law and the need for an effective editorial policy, appreciate the role of the high school press, motivate students and help them make ethical decisions, find proper resources and organizations available to help them. Those who complete the course should be able to direct their students to put out a publication that demonstrates students' understanding of the First Amendment and their understanding of the role of the student press in a free society.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**JMC 61001 PRINCIPLES AND PRACTICES OF DIGITAL MEDIA 3 Credit Hours**

Explores the history and philosophies of online communities and what makes them work. Examines how professionals integrate digital thinking into an organization's communication. Covers best practices for producing social media content that will lead to effective engagement.

**Prerequisite:** Journalism and mass communication major; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**JMC 64036 DIGITAL VIDEO EDITING 3 Credit Hours**

Focus is on editing workflow and techniques for both non-fiction and fiction video production.

**Prerequisite:** Journalism and mass communication major; and graduate standing; and special approval.

**Schedule Type:** Laboratory, Lecture, Combined Lecture and Lab

**Contact Hours:** 2 lecture, 2 lab

**Grade Mode:** Standard Letter

**JMC 65660 POLITICAL COMMUNICATION 3 Credit Hours**

(Cross-listed with COMM 65660 and COMM 75660) An examination of political communication theory and research. Content includes approaches to political communication, role of the media in politics and analysis of political messages.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**JMC 66010 SPECIALIZED REPORTING 3 Credit Hours**

Newsgathering techniques in specialty areas such as politics, labor, medicine, business and technology techniques of team reporting.

**Prerequisite:** JMC 56009 and JMC 55051; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**JMC 66011 REPORTING, WRITING AND EDITING FOR MEDIA 3 Credit Hours**

Foundation course for all students covering how to gather, write and edit content to tell stories across multiple media platforms. Students will practice interviewing and research techniques, structuring work in a variety of formats and polishing grammar, usage and AP Style.

**Prerequisite:** Journalism and mass communication major; and graduate standing; and special approval.

**Schedule Type:** Laboratory, Lecture, Combined Lecture and Lab

**Contact Hours:** 2 lecture, 2 lab

**Grade Mode:** Standard Letter

**JMC 66092 INTERNSHIP IN JOURNALISM AND MASS COMMUNICATION 1-3 Credit Hours**

(Repeatable for credit) Experience in a department or company involving supervised professional responsibilities in journalism and mass communication. Minimum 150 hours of work for each credit hour.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Practical Experience

**Contact Hours:** 1-3 other

**Grade Mode:** Standard Letter-IP

**JMC 67073 WEB DEVELOPMENT FOR HIGH SCHOOL JOURNALISM EDUCATORS 2 Credit Hours**

Basic terminology and structure of online content management systems and how they can be utilized for online student journalism and media in high school. This course covers system functionality and structure, as well as orientation of students to the management system. Aspects of high school administration and legal issues will be covered along with site design and user experience.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**JMC 67075 TEACHING MULTIMEDIA 3 Credit Hours**

Online introduction to recognizing and producing some of the basic linear and non-linear journalistic multimedia tools used for storytelling for the Web, including audio, video, and photo slideshows. Students will also be introduced to data and mapping visualization tools, timelines and DX codes to enhance storytelling.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**JMC 67076 TEACHING BROADCAST JOURNALISM 3 Credit Hours**

Deals with the base knowledge that a teacher needs to begin teaching broadcast journalism. This includes modules on cultivating student broadcast journalism, project-based instruction, as well as one on legalities and ethics along with production skills. While the primary focus is on teaching technique, class participants are given basic journalism content in order to review, learn and or focus on teaching methods for that same material.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**JMC 67079 TEACHING PHOTO EDITING 2 Credit Hours**

Utilization of current photo editing software provides users with powerful tools to acquire, manipulate, and output a variety of images, from fine art to instructional and web graphics. The focus of this course is learning the fundamental operations and controls of industry standard photo editing software and dialogue concerning various issues in teaching and learning photo editing software.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**JMC 67083 TEACHING NEWS DESIGN 3 Credit Hours**

Provides an introduction to the components of news content and design.

This includes type and typography, printing processes, photography, illustration, the thought process in creating a news product and further introductions in the developing field of visual journalism.

Shows journalism educators how a student media staff can effectively communicate with readers through visual elements.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**JMC 67085 TEACHING PHOTOJOURNALISM 3 Credit Hours**

Examines the components of photojournalism and prepares instructors to teach those components to their students. In addition to traditional assignments and projects, instructors and students maintain a weekly dialog. Students gain the following skills necessary to teach their classes: basic operation of a digital camera, essential components of good photography, how to capture images that tell a story, strategies for covering news, features and sporting events as well as portraits and group shots, strategies for organizing and archiving images and ethical practices for capturing images and using them in publication work.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**JMC 67087 ADVISING YEARBOOK 3 Credit Hours**

Students gain contextual information regarding yearbook roles in history and memory along with practical skills for recruitment, staff organization, staffing and production, and incorporating the creation of the yearbook into a classroom setting.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**JMC 68000 PUBLIC RELATIONS THEORY AND PROCESS 3 Credit Hours**

Introduces students to the profession of public relations by exploring both the theories and the processes employed by PR practitioners.

Course also explores the history and social role of public relations as well as ethics and social responsibility.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**JMC 68001 PUBLIC RELATIONS MANAGEMENT 3 Credit Hours**

(Slashed with JMC 88001) Perspectives, skills needed to manage an organization's PR function, particularly strategic planning, implementation and evaluation. Emphasis on managerial aspects of negotiating organizational relationships with the public.

**Prerequisite:** JMC 68000; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**JMC 68004 SOCIAL MEDIA AND PUBLIC RELATIONS 3 Credit Hours**

Provides an in-depth study of social media and public relations, emphasizing how the two are used by organizations to build stronger relations with consumers, media, analysts, and others.

**Prerequisite:** JMC 68000 and JMC 68001; and graduate standing in journalism and mass communication.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**JMC 68005 STRATEGIC WRITING AND MESSAGING IN PUBLIC RELATIONS 3 Credit Hours**

Focuses on public relations writing and strategic messaging, a critical foundational skill. Course content includes skill building in online channels and across traditional mediums.

**Prerequisite:** JMC 68000 and JMC 68001; and graduate standing in journalism and mass communication.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**JMC 68006 VALUES AND ETHICS MANAGEMENT IN PUBLIC RELATIONS 3 Credit Hours**

Explores the theory and application of ethics in public relations.

Examines case studies, ethics theory, values and management thought.

**Prerequisite:** JMC 68000 and 68001; and journalism and mass communication major; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**JMC 68008 PUBLIC RELATIONS MEASUREMENT AND RETURN ON INVESTMENT 3 Credit Hours**

Examines the strategic and tactical processes for measuring outcomes in public relations campaigns.

**Prerequisite:** JMC 68000 and 68001; and journalism and mass communication major; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**JMC 68009 PUBLIC RELATIONS HISTORY AND THE MODERN WORLD 3 Credit Hours**

Examines development of Public Relations as a profession, focusing on the Twentieth Century. Detailed study of historical case studies, campaigns and initiatives.

**Prerequisite:** JMC 68000 and JMC 68001; and graduate student in journalism and mass communication.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**JMC 68010 PUBLIC RELATIONS INTERNAL COMMUNICATIONS 3 Credit Hours**

Explores strategies and tactics of internal communications. Includes development of organizational intranets and other employee-focused communications channels with special emphasis on social media to communicate public relations messages.

**Prerequisite:** JMC 68000 and JMC 68001; and journalism and mass communication major; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**JMC 68011 FINANCIAL ISSUES IN PUBLIC RELATIONS 3 Credit Hours**

Focuses on financial topics related to a career in public relations, particularly the role of communicators in the growing field of investor relations.

**Prerequisite:** JMC 68000 and JMC 68001; and graduate student in journalism and mass communication.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**JMC 80001 THEORY OF MASS COMMUNICATION 3 Credit Hours**

(Slashed with JMC 60001) Introduction to theory of mass communication with emphasis on the process and effects of mass communication.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**JMC 80004 CYBERMEDIA LAW 3 Credit Hours**

Investigates how the law affects those who gather information and publish online, including issues relating to blogging, web site hosting, posting and online journalism, along with a basic ability to apply that knowledge in specific situations. Focus is on both existing law and developing public policy.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**JMC 80007 RESEARCH METHODS IN MASS COMMUNICATION 3 Credit Hours**

(Slashed with JMC 60007) Investigates social science methods applicable to the study of mass communication, including survey, content analysis, experimental, and focus group approaches. Emphasis is on original and secondary data collection, data analysis, and interpreting and reporting research results for scholarly and lay audiences.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**JMC 80010 QUALITATIVE RESEARCH IN JOURNALISM AND MASS COMMUNICATION: DATA COLLECTION 3 Credit Hours**

(Slashed with JMC 60010) Designed to develop skills in qualitative data collection in journalism and mass communication with primary focus on human subjects and textual data.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**JMC 80011 THEORY AND SOCIETAL ROLE OF MASS MEDIA 3 Credit Hours**

(Slashed with JMC 60011) Review theories of the processes and effects of mass communication and how these apply to the work of media professionals or those in the scholastic and collegiate journalism teaching environment. Examines origins, nature, consequences of mass communication and mediated interactions.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**JMC 80012 MASS COMMUNICATION LAW AND ETHICS 3 Credit Hours**

(Slashed with JMC 60012) General overview of issues and problems in mass communication law and ethics including libel, privacy, copyright, intellectual property, regulation of advertising and broadcasting, ethical decision making, ethical decision-making tools and a simple overview of ethics theory.

**Prerequisite:** A major within the college of communication and information; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**JMC 80040 QUALITATIVE RESEARCH METHODS IN JOURNALISM AND MASS COMMUNICATION: DATA ANALYSIS 3 Credit Hours**

Emphasizes the development of skills in the analysis of data collected through qualitative research methods, particularly interviews and ethnographies. Designed to help prepare graduate students who plan to use qualitative methods in their academic or applied research, particularly those who will be adopting these methods for theses or dissertations.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**JMC 80195 SPECIAL TOPICS IN JOURNALISM AND MASS COMMUNICATION 3 Credit Hours**

(Repeatable for credit) Study of important topics in mass communication. Offered irregularly in response to existing interests and opportunities.

**Prerequisite:** Doctoral standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**JMC 88001 PUBLIC RELATIONS MANAGEMENT 3 Credit Hours**

(Slashed with JMC 68001) Perspectives, skills needed to manage an organization's PR function, particularly strategic planning, implementation and evaluation. Emphasis on managerial aspects of negotiating organizational relationships with the public.

**Prerequisite:** A major within the college of communication and information; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

## Advertising - B.S.

College of Communication and Information

School of Journalism and Mass Communication

201 Franklin Hall



Kent Campus  
330-672-2572  
jmc@kent.edu  
www.kent.edu/jmc

## Description

The Bachelor of Science degree in Advertising is the study of the entire spectrum of the advertising business and the social responsibilities of a persuasive media. Students in the program supplement their coursework with an internship in their field of specialization. Other opportunities for practical experience include news, production, management, sales, performance and advertising positions on the campus newspaper, the *Kent Stater*, and its online edition; the campus radio station, Black Squirrel Radio; and the campus magazine, the *Burr*, and its online edition. Students may also obtain positions with IdeaBase, a student-run, full-service integrated marketing communications firm in downtown Kent.

Advertising careers include the creative elements of all kinds of advertising and promotional elements, including the strategic planning and execution of creative materials including print, broadcast and online; the planning and buying of all types of media including the ever expanding electronic media; account supervision, which is working with clients to help plan and execute advertising; and strategic planning and execution of direct elements, sales promotion and e-marketing. There are many study abroad/away opportunities.

Programs in the College of Communication and Information are, by nature, innovative, interdisciplinary and collaborative, which is critical to both professional and scholarly disciplines. Students are educated to work at the intersections of communication, information and technology. Through a core of diverse theory- and practice-based courses, students learn basic concepts that apply across the range of college programs and develop a sense of professional expectations and build toward interdisciplinary thinking and application.

### Fully Offered At:

- Kent Campus

## Accreditation

Accrediting Council on Education in Journalism and Mass Communications (ACEJMC)

## Admission Requirements

The university affirmatively strives to provide educational opportunities and access to students with varied backgrounds, those with special talents and adult students who graduated from high school three or more years ago.

**Freshman Students on the Kent Campus:** The freshman admission policy on the Kent Campus is selective. Admission decisions are based upon the following: cumulative grade point average, ACT and/or SAT scores, strength of high school college preparatory curriculum and grade trends. The Admissions Office at the Kent Campus may defer the admission of students who do not meet admissions criteria but who demonstrate areas of promise for successful college study. Deferred applicants may begin their college coursework at one of seven regional campuses of Kent State University. For more information on admissions,

including additional requirements for some academic programs, visit the admissions website for new freshmen.

**Freshman Students on the Regional Campuses:** Kent State campuses at Ashtabula, East Liverpool, Geauga, Salem, Stark, Trumbull and Tuscarawas, as well as the Regional Academic Center in Twinsburg, have open enrollment admission for students who hold a high school diploma, GED or equivalent.

### English Language Proficiency Requirements for International Students:

All international students must provide proof of English language proficiency (unless they meet specific exceptions) by earning a minimum 525 TOEFL score (71 on the Internet-based version), minimum 75 MELAB score, minimum 6.0 IELTS score or minimum 48 PTE score, or by completing the ESL level 112 Intensive Program. For more information on international admission, visit the Office of Global Education's admission website.

**Transfer, Transitioning and Former Students:** For more information about admission criteria for transfer, transitioning and former students, please visit the admissions website.

**Current Kent State Students:** Active Kent State students who wish to change their major to Advertising must have a minimum 2.000 overall GPA to be admitted.

## Program Learning Outcomes

Graduates of this program will be able to:

1. Demonstrate critical thinking, grounded in a legal and ethical framework.
2. Gather information, analyze it, and make informed judgments using methods and tools appropriate to their professions.
3. Demonstrate the ability to apply theory and research appropriate to their professions, including quantitative and qualitative methods.
4. Demonstrate the ability to apply basic ethical principles to their professional work.
5. Demonstrate the ability to apply laws and regulations applicable to their professional work.
6. Write correctly and clearly in forms and styles appropriate for the communications professions, audiences and purposes they serve.
7. Demonstrate understanding of how media and their professions evolved historically, their role in societal development and their global interaction today with institutions and individuals.
8. Demonstrate appreciation for diverse cultures and individual differences, and reflect that appreciation in their work.

## University Requirements

All students in a bachelor's degree program at Kent State University must complete the following university requirements for graduation.

**NOTE:** University requirements may be fulfilled in this program by specific course requirements. Please see Program Requirements for details.

Destination Kent State: First Year Experience	1
Course is not required for students with 25 transfer credits, excluding College Credit Plus, or age 21+ at time of admission.	
Diversity Domestic/Global (DIVD/DIVG)	2 courses
Students must successfully complete one domestic and one global course, of which one must be from the Kent Core.	



Experiential Learning Requirement (ELR)	varies
Students must successfully complete one course or approved experience.	
Kent Core (see table below)	36-37
Writing-Intensive Course (WIC)	1 course
Students must earn a minimum C grade in the course.	
Upper-Division Requirement	39 (or 42)
Students must successfully complete 39 upper-division (numbered 30000 to 49999) credit hours to graduate. Students in a B.A. and/or B.S. degree in the College of Arts and Sciences must complete 42 upper-division credit hours.	
Total Credit Hour Requirement	120
Some bachelor's degrees require students to complete more than 120 credit hours.	

## Kent Core Requirements

Kent Core Composition (KCOMP)	6
Kent Core Mathematics and Critical Reasoning (KMCR)	3
Kent Core Humanities and Fine Arts (KHUM/KFA) (min one course each)	9
Kent Core Social Sciences (KSS) (must be from two disciplines)	6
Kent Core Basic Sciences (KBS/KLAB) (must include one laboratory)	6-7
Kent Core Additional (KADL)	6
<b>Total Credit Hours:</b>	<b>36-37</b>

## Program Requirements

### Major Requirements

Code	Title	Credit Hours
<b>Major Requirements (courses count in major GPA) (min C- grade in all courses)</b>		
EMAT 10310	MY STORY ON THE WEB	3
JMC 20001	MEDIA, POWER AND CULTURE (DIVD) (KSS) <sup>1</sup>	3
JMC 20004	ADVERTISING WRITING AND STORYTELLING	3
JMC 20008	RESEARCH AND MEASUREMENT IN ADVERTISING AND PUBLIC RELATIONS	3
JMC 21001	PRINCIPLES OF ADVERTISING	3
JMC 21005	ADVERTISING MESSAGING AND COMMUNICATION	3
JMC 31002	ADVERTISING COPYWRITING (WIC) <sup>2</sup>	3
JMC 31003	ADVERTISING MEDIA PLANNING	3
JMC 31004	DIGITAL ADVERTISING	3
JMC 31007	DIGITAL ANALYTICS IN ADVERTISING AND PUBLIC RELATIONS	2
JMC 31011	ADVERTISING STRATEGY DEVELOPMENT	3
JMC 40011	ETHICAL ISSUES IN INTEGRATED COMMUNICATION	1
JMC 40016	LAW OF ADVERTISING AND PUBLIC RELATIONS	3
JMC 40092	INTERNSHIP (ELR)	2
JMC 41005	ADVERTISING CAMPAIGNS	3
Journalism and Mass Communication Elective, choose from the following:		
CCI 45091	SEMINAR IN MEDIA AND MOVEMENTS (ELR)	
JMC 21004	ADVERTISING AND PUBLIC RELATIONS INDUSTRY TOOLS	

JMC 40201	PUBLIC RELATIONS PRACTICE: PUBLIC AFFAIRS
JMC 40202	PUBLIC RELATIONS PRACTICE: CRISIS COMMUNICATION
JMC 41075	POLITICAL ADVERTISING
JMC 41080	ACTIVATION ADVERTISING
JMC 41150	GLOBAL ADVERTISING AND PUBLIC RELATIONS
JMC 41192	PRACTICUM IN ADVERTISING AND PUBLIC RELATIONS (ELR)

Additional Requirements (courses do not count in major GPA)		
COMM 21000	COMMUNICATION GRAMMAR REVIEW (min C- grade)	1
MATH 10041	INTRODUCTORY STATISTICS (KMCR)	4
UC 10097	DESTINATION KENT STATE: FIRST YEAR EXPERIENCE	1
College of Communication and Information Core Electives, choose from the following:		
COMM 15000	INTRODUCTION TO HUMAN COMMUNICATION (KADL)	
COMM 35852	INTERCULTURAL COMMUNICATION (DIVG)	
EMAT 15310	CREATIVE CODING	
EMAT 33310	HUMAN-COMPUTER INTERACTION	
LIS 30010	INFORMATION FLUENCY IN THE WORKPLACE AND BEYOND	
UXD 20001	INTRODUCTION TO USER EXPERIENCE DESIGN	
VCD 13000	DESIGN: PRINCIPLES, PROCESSES AND PRACTICE	

Kent Core Composition	6
Kent Core Humanities or Fine Arts (minimum one course from each)	9
Kent Core Social Sciences (courses from two curricular areas)	3
Kent Core Basic Sciences (must include one laboratory)	6-7
Kent Core Additional	6
General Electives (total credit hours depends on earning 120 credit hours, including 39 upper-division credit hours) <sup>2</sup>	31
<b>Minimum Total Credit Hours:</b>	<b>120</b>

- <sup>1</sup> A minimum C grade must be earned to fulfill the writing-intensive requirement. If course is not being used to fulfill the writing-intensive requirement, a minimum grade of C- must be earned.
- <sup>2</sup> All general electives must be outside the JMC discipline.

### Progression Requirements

- Students must maintain a minimum 2.700 major GPA and a minimum 2.000 overall GPA i to continue taking JMC courses. Failure to do so will result in students not being permitted to enroll in JMC courses until they have met with an academic advisor to create a plan of study. In addition, no grade lower than a C- in a JMC course will be counted toward graduation or as a prerequisite for a subsequent class.

### Graduation Requirements

Minimum Major GPA	Minimum Overall GPA
2.700	2.000

- A minimum C- grade may be required in some courses.
- Any JMC course taken is calculated in the major GPA.

- Students must complete minimum 72 credit hours **outside** the journalism and mass communication discipline per the Accrediting Council on Education in Journalism and Mass Communications. The following courses are considered within the discipline and **cannot** be used toward the 72-credit-hour requirement:

Code	Title	Credit Hours
CCI 12001	PHOTOGRAPHY	3
CCI 45091	SEMINAR IN MEDIA AND MOVEMENTS (ELR)	3
COMM 25863	BUSINESS AND PROFESSIONAL COMMUNICATION	3
COMM 26001	PUBLIC COMMUNICATION IN SOCIETY	3
COMM 35860	INTERVIEWING	3
COMM 41000	SPORTS COMMUNICATION	3
COMM 42000	MEDIA, WAR AND PROPAGANDA	3
COMM 45007	FREEDOM OF SPEECH	3
COMM 45902	COMMUNICATION AND INFLUENCE (WIC)	3
COMM 46503	HEALTH COMMUNICATION AND MEDIA	3
EMAT 10310	MY STORY ON THE WEB	3
Journalism and Mass Communication (JMC) courses		
VCD 32000	ILLUSTRATION I	3
VCD 32001	ILLUSTRATION II	3
VCD 33000	GRAPHIC DESIGN I	3
VCD 33001	GRAPHIC DESIGN II	3
VCD 34005	INTRODUCTION TO 3D GRAPHIC DESIGN	3
VCD 38001	PHOTOGRAPHICS	3
VCD 38004	ADVANCED PHOTOGRAPHY	3
VCD 38007	EMERGING PHOTOGRAPHY	3
VCD 38011	EDITORIAL PHOTOGRAPHY	3
VCD 42000	ADVANCED ILLUSTRATION: MEDIA	3
VCD 42002	EDITORIAL ILLUSTRATION	3
VCD 42003	ADVERTISING ILLUSTRATION	3
VCD 48005	COLOR PHOTOGRAPHY	3
VCD 48008	ADVANCED DIGITAL IMAGING	3

- All transfer coursework with a subject of TRAN, KAPS, COMM, JMC or VCD (and course number 'xxxx') will **not** count toward the 72-credit-hour requirement automatically, nor will Kent State coursework with a subject designator of CCI. Prior Kent State coursework with the subject designator of JOUR will also not count toward the 72-credit-hour requirement. Students must meet with their academic advisor for further evaluation of their coursework for applicability to this requirement.

## Roadmap

This roadmap is a recommended semester-by-semester plan of study for this major. However, courses designated as critical (!) must be completed in the semester listed to ensure a timely graduation.

Semester One		Credits
JMC 20001	MEDIA, POWER AND CULTURE (DIVD) (KSS)	3
JMC 21001	PRINCIPLES OF ADVERTISING	3
UC 10097	DESTINATION KENT STATE: FIRST YEAR EXPERIENCE	1
College of Communication and Information Core Electives		3
Kent Core Requirement		3
Kent Core Requirement		3
Credit Hours		16

### Semester Two

COMM 21000	COMMUNICATION GRAMMAR REVIEW	1
EMAT 10310	MY STORY ON THE WEB	3
MATH 10041	INTRODUCTORY STATISTICS (KMCR)	4
Kent Core Requirement		3
Kent Core Requirement		3
Credit Hours		14

### Semester Three

JMC 20004	ADVERTISING WRITING AND STORYTELLING	3
JMC 20008	RESEARCH AND MEASUREMENT IN ADVERTISING AND PUBLIC RELATIONS	3
College of Communication and Information Core Electives		3
Kent Core Requirement		3
Kent Core Requirement		3
Credit Hours		15

### Semester Four

JMC 21005	ADVERTISING MESSAGING AND COMMUNICATION	3
JMC 31011	ADVERTISING STRATEGY DEVELOPMENT	3
Kent Core Requirement		3
Kent Core Requirement		3
General Electives		3
Credit Hours		15

### Semester Five

JMC 31003 or JMC 31004	ADVERTISING MEDIA PLANNING or DIGITAL ADVERTISING	3
JMC 31007	DIGITAL ANALYTICS IN ADVERTISING AND PUBLIC RELATIONS	2
Kent Core Requirement		3
Kent Core Requirement		3
General Electives		4
Credit Hours		15

### Semester Six

JMC 31002	ADVERTISING COPYWRITING (WIC)	3
JMC 31003 or JMC 31004	ADVERTISING MEDIA PLANNING or DIGITAL ADVERTISING	3
General Electives		9
Credit Hours		15

### Third Summer Term

JMC 40092	INTERNSHIP (ELR)	2
Credit Hours		2

### Semester Seven

JMC 40016	LAW OF ADVERTISING AND PUBLIC RELATIONS	3
Journalism and Mass Communication Elective		3
General Electives		9
Credit Hours		15

### Semester Eight

JMC 40011	ETHICAL ISSUES IN INTEGRATED COMMUNICATION	1
JMC 41005	ADVERTISING CAMPAIGNS	3
College of Communication and Information Core Electives		3
General Electives		6
Credit Hours		13
Minimum Total Credit Hours:		120

## Advertising - Minor

College of Communication and Information  
School of Journalism and Mass Communication  
201 Franklin Hall  
Kent Campus  
330-672-2572  
jmc@kent.edu  
www.kent.edu/jmc

### Description

The Advertising minor provides students with an overview of the different roles advertising plays in society. Students gain an understanding of social, legal and marketing considerations in advertising and how branding is created through media and creative strategies to persuade a designated target audience.

#### Fully Offered At:

- Kent Campus

### Admission Requirements

To declare the Advertising minor, students must have a minimum 2.000 overall Kent State University GPA. No Kent State University GPA is required if the student is a first-semester freshman or transfer student admitted in good standing.

### Minor Requirements

Code	Title	Credit Hours
<b>Minor Requirements</b>		
EMAT 10310	MY STORY ON THE WEB	3
JMC 20004	ADVERTISING WRITING AND STORYTELLING	3
JMC 20008	RESEARCH AND MEASUREMENT IN ADVERTISING AND PUBLIC RELATIONS	3
JMC 21001	PRINCIPLES OF ADVERTISING	3
JMC 21004	ADVERTISING AND PUBLIC RELATIONS INDUSTRY TOOLS	1
JMC 31002	ADVERTISING COPYWRITING (WIC)	3
or JMC 31003	ADVERTISING MEDIA PLANNING	
or JMC 31004	DIGITAL ADVERTISING	
JMC 31011	ADVERTISING STRATEGY DEVELOPMENT	3
Minimum Total Credit Hours:		19

### Graduation Requirements

Minimum Minor GPA	Minimum Overall GPA
2.700	2.000

- Minimum 6 credit hours in the minor must be upper-division coursework (30000 and 40000 level).
- Minimum 6 credit hours in the minor must be outside of the course requirements for any major or other minor the student is pursuing.
- Minimum 50 percent of the total credit hours for the minor must be taken at Kent State (in residence).

## Digital Media Production - B.S.

College of Communication and Information  
School of Journalism and Mass Communication  
201 Franklin Hall  
Kent Campus  
330-672-2572  
jmc@kent.edu  
www.kent.edu/jmc

### Description

The Bachelor of Science degree in Digital Media Production allows students to gain first-hand experience in all aspects of single camera and multi-camera production, including shooting, audio recording, editing, writing, directing and producing digital films, live and recorded television, webisodes and other streaming online content, as well as virtual reality and animation. Film styles covered include narrative fiction, documentary, commercial and corporate productions. Graduates generally secure permanent or freelance positions with television stations, production companies, remote broadcast entities and corporate media departments.

Students have the opportunity to work as student employees at TeleProductions, Kent State University's professional broadcast department. Students may assist in the production aspects of TV-2 and Kent State University Independent Films.

In addition, students supplement their coursework with an internship in their field of specialization. There are many study abroad/away opportunities.

Programs in the College of Communication and Information are, by nature, innovative, interdisciplinary and collaborative, which is critical to both professional and scholarly disciplines. Students are educated to work at the intersections of communication, information and technology. Through a core of diverse theory- and practice-based courses, students learn basic concepts that apply across the range of college programs and develop a sense of professional expectations and build toward interdisciplinary thinking and application.

#### Fully Offered At:

- Kent Campus

### Accreditation

Accrediting Council on Education in Journalism and Mass Communications (ACEJMC)

### Admission Requirements

The university affirmatively strives to provide educational opportunities and access to students with varied backgrounds, those with special talents and adult students who graduated from high school three or more years ago.

**Freshman Students on the Kent Campus:** The freshman admission policy on the Kent Campus is selective. Admission decisions are based upon the following: cumulative grade point average, ACT and/or SAT scores, strength of high school college preparatory curriculum and grade trends. The Admissions Office at the Kent Campus may defer the admission of students who do not meet admissions criteria but who demonstrate areas of promise for successful college study. Deferred

applicants may begin their college coursework at one of seven regional campuses of Kent State University. For more information on admissions, including additional requirements for some academic programs, visit the admissions website for new freshmen.

**Freshman Students on the Regional Campuses:** Kent State campuses at Ashtabula, East Liverpool, Geauga, Salem, Stark, Trumbull and Tuscarawas, as well as the Regional Academic Center in Twinsburg, have open enrollment admission for students who hold a high school diploma, GED or equivalent.

**English Language Proficiency Requirements for International Students:** All international students must provide proof of English language proficiency (unless they meet specific exceptions) by earning a minimum 525 TOEFL score (71 on the Internet-based version), minimum 75 MELAB score, minimum 6.0 IELTS score or minimum 48 PTE score, or by completing the ESL level 112 Intensive Program. For more information on international admission, visit the Office of Global Education's admission website.

**Transfer, Transitioning and Former Students:** For more information about admission criteria for transfer, transitioning and former students, please visit the admissions website.

## Program Learning Outcomes

Graduates of this program will be able to:

1. Demonstrate critical thinking, grounded in a legal and ethical framework.
2. Gather information, analyze it, and make informed judgments using methods and tools appropriate to their professions.
3. Demonstrate the ability to apply theory and research appropriate to their professions, including quantitative and qualitative methods.
4. Demonstrate the ability to apply basic ethical principles to their professional work.
5. Demonstrate the ability to apply laws and regulations applicable to their professional work.
6. Write correctly and clearly in forms and styles appropriate for the communications professions, audiences and purposes they serve.
7. Demonstrate understanding of how media and their professions evolved historically, their role in societal development and their global interaction today with institutions and individuals.
8. Demonstrate appreciation for diverse cultures and individual differences, and reflect that appreciation in their work.

## University Requirements

All students in a bachelor's degree program at Kent State University must complete the following university requirements for graduation.

**NOTE:** University requirements may be fulfilled in this program by specific course requirements. Please see Program Requirements for details.

Destination Kent State: First Year Experience	1
Course is not required for students with 25 transfer credits, excluding College Credit Plus, or age 21+ at time of admission.	
Diversity Domestic/Global (DIVD/DIVG)	2 courses
Students must successfully complete one domestic and one global course, of which one must be from the Kent Core.	
Experiential Learning Requirement (ELR)	varies

Students must successfully complete one course or approved experience.	
Kent Core (see table below)	36-37
Writing-Intensive Course (WIC)	1 course
Students must earn a minimum C grade in the course.	
Upper-Division Requirement	39 (or 42)
Students must successfully complete 39 upper-division (numbered 30000 to 49999) credit hours to graduate. Students in a B.A. and/or B.S. degree in the College of Arts and Sciences must complete 42 upper-division credit hours.	
Total Credit Hour Requirement	120
Some bachelor's degrees require students to complete more than 120 credit hours.	

## Kent Core Requirements

Kent Core Composition (KCOMP)	6
Kent Core Mathematics and Critical Reasoning (KMCR)	3
Kent Core Humanities and Fine Arts (KHUM/KFA) (min one course each)	9
Kent Core Social Sciences (KSS) (must be from two disciplines)	6
Kent Core Basic Sciences (KBS/KLAB) (must include one laboratory)	6-7
Kent Core Additional (KADL)	6
<b>Total Credit Hours:</b>	<b>36-37</b>

## Program Requirements

### Major Requirements

Code	Title	Credit Hours
<b>Major Requirements (courses count in major GPA) (min C- grade is required in all courses)</b>		
JMC 10009	ELEMENTS OF FILM, TV AND ANIMATION	3
JMC 13001	PRODUCTION SAFETY AND SET PROTOCOL	2
JMC 20001	MEDIA, POWER AND CULTURE (DIVD) (KSS)	3
JMC 20011	PRODUCTION FUNDAMENTALS	3
JMC 23004	STORY FOR PICTURE	3
JMC 23130	DIRECTING FOR PICTURE	3
JMC 23140	PRODUCTION I	3
JMC 30036	DIGITAL VIDEO EDITING	3
JMC 33033	SOUND FOR PICTURE	3
JMC 33043	DIGITAL CINEMATOGRAPHY	3
JMC 40006	LAW OF MASS COMMUNICATION	3
JMC 40010	ETHICS AND ISSUES IN MASS COMMUNICATION (WIC) <sup>1</sup>	3
JMC 40092	INTERNSHIP (ELR)	1
JMC 45007	PRODUCING FOR PICTURE	3
JMC 49099	PRODUCTION II (ELR)	3
Advanced Skills Electives, choose from the following:		6
JMC 30034	PROGRAMMING FOR DIGITAL MEDIA	
JMC 33036	MULTIMEDIA ENGINEERING	
JMC 40037	SCRIPTWRITING FOR VIDEO AND FILM	
JMC 40295	SELECTED TOPICS IN JOURNALISM AND MASS COMMUNICATION	
JMC 44042	REMOTE TELEVISION	
JMC 44050	POST PRODUCTION SOUND	
JMC 44055	SUAS AERIAL CINEMATOGRAPHY	

JMC 45001	ADVANCED LIGHTING FOR DIGITAL FILM AND TELEVISION	
JMC 45020	AVID EDITOR CERTIFICATION	
JMC 46057	MOTION GRAPHICS FOR VIDEO EDITING	
JMC 46395	SPECIAL TOPICS IN JOURNALISM PRACTICE	
<b>Additional Requirements (courses do not count in major GPA)</b>		
UC 10097	DESTINATION KENT STATE: FIRST YEAR EXPERIENCE	1
College of Communication and Information Core Electives, choose from the following:		9
COMM 15000	INTRODUCTION TO HUMAN COMMUNICATION (KADL)	
COMM 35852	INTERCULTURAL COMMUNICATION (DIVG)	
EMAT 15310	CREATIVE CODING	
EMAT 33310	HUMAN-COMPUTER INTERACTION	
LIS 30010	INFORMATION FLUENCY IN THE WORKPLACE AND BEYOND	
UXD 20001	INTRODUCTION TO USER EXPERIENCE DESIGN	
VCD 13000	DESIGN: PRINCIPLES, PROCESSES AND PRACTICE	
Additional Major Electives, choose from the following:		3
ART 10022	2D COMPOSITION	
ART 10023	3D COMPOSITION	
ARTS 14000	DRAWING I	
CCI 12001	PHOTOGRAPHY	
EMAT 10310	MY STORY ON THE WEB	
ECON 22060	PRINCIPLES OF MICROECONOMICS (KSS)	
ENG 20021	INTRODUCTION TO CREATIVE WRITING	
ENTR 27056	INTRODUCTION TO ENTREPRENEURSHIP	
FDM 10010	FASHION FUNDAMENTALS	
THEA 11303	THE ART OF ACTING	
THEA 11722	FUNDAMENTALS OF PRODUCTION I: SCENERY, STAGECRAFT AND SOUND	
MUS 21113	MUSIC PRODUCTION I	
Kent Core Composition		6
Kent Core Mathematics and Critical Reasoning		3
Kent Core Humanities and Fine Arts (minimum one from each)		9
Kent Core Social Sciences (must be from two disciplines)		3
Kent Core Basic Sciences (must include one laboratory)		6-7
Kent Core Additional		6
General Electives (total credit hours depends on earning 120 credit hours, including 39 upper-division credit hours) <sup>2</sup>		26
Minimum Total Credit Hours:		120

<sup>1</sup> A minimum C grade must be earned to fulfill the writing-intensive requirement. If course is not being used to fulfill the writing-intensive requirement, a minimum grade of C- must be earned.

<sup>2</sup> All general elective credit hours for the degree must be from courses outside of the discipline.

## Progression Requirements

Students must maintain a minimum 2.700 major GPA and a minimum 2.000 overall GPA to continue taking JMC courses. Failure to do so will result in students not being permitted to enroll in JMC courses until they meet with their academic advisor to complete a plan of study. In addition, no grade lower than a C- in a JMC course will be counted toward graduation or as a prerequisite for a subsequent class.

## Graduation Requirements

Minimum Major GPA	Minimum Overall GPA
2.700	2.000

- A minimum C- grade may be required in some courses.
- Any JMC course taken is calculated in the major GPA.
- Students must complete minimum 72 credit hours **outside** the journalism and mass communication discipline per the Accrediting Council on Education in Journalism and Mass Communications. The following courses are considered within the discipline and **cannot** be used toward the 72-credit-hour requirement:
- All transfer coursework with a subject TRAN, KAPS, COMM, JMC or VCD (and no number other than 'xxxx') will not count toward the 72-credit-hour requirement automatically, nor will Kent State coursework with a subject designator of CCI. Prior Kent State coursework with the subject designator of JOUR also will not count toward the 72-credit-hour requirement. Students must meet with their academic advisor for further evaluation of their coursework for applicability to this requirement.

Code	Title	Credit Hours
CCI 12001	PHOTOGRAPHY	3
CCI 45091	SEMINAR IN MEDIA AND MOVEMENTS (ELR)	3
COMM 25863	BUSINESS AND PROFESSIONAL COMMUNICATION	3
COMM 26001	PUBLIC COMMUNICATION IN SOCIETY	3
COMM 35860	INTERVIEWING	3
COMM 41000	SPORTS COMMUNICATION	3
COMM 42000	MEDIA, WAR AND PROPAGANDA	3
COMM 45007	FREEDOM OF SPEECH	3
COMM 45902	COMMUNICATION AND INFLUENCE (WIC)	3
COMM 46503	HEALTH COMMUNICATION AND MEDIA	3
EMAT 10310	MY STORY ON THE WEB	3
Any Journalism Mass Communication (JMC) courses		
VCD 32000	ILLUSTRATION I	3
VCD 32001	ILLUSTRATION II	3
VCD 33000	GRAPHIC DESIGN I	3
VCD 33001	GRAPHIC DESIGN II	3
VCD 34005	INTRODUCTION TO 3D GRAPHIC DESIGN	3
VCD 38001	PHOTOGRAPHICS	3
VCD 38004	ADVANCED PHOTOGRAPHY	3
VCD 38007	EMERGING PHOTOGRAPHY	3
VCD 38011	EDITORIAL PHOTOGRAPHY	3
VCD 42000	ADVANCED ILLUSTRATION: MEDIA	3
VCD 42002	EDITORIAL ILLUSTRATION	3
VCD 42003	ADVERTISING ILLUSTRATION	3
VCD 48005	COLOR PHOTOGRAPHY	3
VCD 48008	ADVANCED DIGITAL IMAGING	3

## Roadmap



<b>Semester One</b>		<b>Credits</b>
JMC 10009	ELEMENTS OF FILM, TV AND ANIMATION	3
JMC 13001	PRODUCTION SAFETY AND SET PROTOCOL	2
JMC 20001	MEDIA, POWER AND CULTURE (DIVD) (KSS)	3
UC 10097	DESTINATION KENT STATE: FIRST YEAR EXPERIENCE	1
Kent Core Requirement		3
Kent Core Requirement		3
Credit Hours		15
<b>Semester Two</b>		
JMC 20011	PRODUCTION FUNDAMENTALS	3
JMC 23004	STORY FOR PICTURE	3
College of Communication and Information Core Electives		3
Kent Core Requirement		3
Kent Core Requirement		3
Credit Hours		15
<b>Semester Three</b>		
JMC 23130	DIRECTING FOR PICTURE	3
JMC 30036	DIGITAL VIDEO EDITING	3
or	or SOUND FOR PICTURE	
JMC 33033	or DIGITAL CINEMATOGRAPHY	
or		
JMC 33043		
Kent Core Requirement		3
Kent Core Requirement		3
Kent Core Requirement		3
General Elective		1
Credit Hours		16
<b>Semester Four</b>		
JMC 23140	PRODUCTION I	3
JMC 30036	DIGITAL VIDEO EDITING	3
or	or SOUND FOR PICTURE	
JMC 33033	or DIGITAL CINEMATOGRAPHY	
or		
JMC 33043		
College of Communication and Information Core Electives		3
Kent Core Requirement		3
Kent Core Requirement		3
General Electives		1
Credit Hours		16
<b>Semester Five</b>		
JMC 30036	DIGITAL VIDEO EDITING	3
or	or SOUND FOR PICTURE	
JMC 33033	or DIGITAL CINEMATOGRAPHY	
or		
JMC 33043		
Advanced Skills Elective		3
Additional Major Electives		3
Kent Core Requirement		3
Kent Core Requirement		3
Credit Hours		15
<b>Semester Six</b>		
JMC 40006	LAW OF MASS COMMUNICATION	3
JMC 45007	PRODUCING FOR PICTURE	3
College of Communication and Information Core Electives		3
General Electives		6
Credit Hours		15

<b>Third Summer Term</b>		
JMC 40092	INTERNSHIP (ELR)	1
Credit Hours		1
<b>Semester Seven</b>		
JMC 40010	ETHICS AND ISSUES IN MASS COMMUNICATION (WIC)	3
Advanced Skills Elective		3
General Electives		9
Credit Hours		15
<b>Semester Eight</b>		
JMC 49099	PRODUCTION II (ELR)	3
General Electives		9
Credit Hours		12
Minimum Total Credit Hours:		120

## Digital Media Production - Minor

College of Communication and Information  
School of Journalism and Mass Communication  
201 Franklin Hall  
Kent Campus  
330-672-2572  
jmc@kent.edu  
www.kent.edu/jmc

### Description

The Digital Media Production minor teaches the basics of both audio and video production in either a studio or field setting.

### Fully Offered At:

- Kent Campus

### Admission Requirements

Admission to a minor is open to students declared in a bachelor's degree, the A.A.B. or A.A.S. degree or the A.T.S. degree (not Individualized Program major). Students declared only in the A.A. or A.S. degree or the A.T.S. degree in Individualized Program may not declare a minor. Students may not pursue a minor and a major in the same discipline.

To declare the Digital Media Production minor, students must have a minimum 2.000 overall Kent State University GPA. No Kent State University GPA is required if the student is a first-semester freshman or transfer student admitted in good standing.

### Minor Requirements

Code	Title	Credit Hours
<b>Minor Requirements</b>		
JMC 10009	ELEMENTS OF FILM, TV AND ANIMATION	3
JMC 13001	PRODUCTION SAFETY AND SET PROTOCOL	2
JMC 20001	MEDIA, POWER AND CULTURE (DIVD) (KSS)	3
JMC 20011	PRODUCTION FUNDAMENTALS	3
JMC 23004	STORY FOR PICTURE	3
Minor Electives, choose from the following:		6
JMC 30036	DIGITAL VIDEO EDITING	
JMC 33033	SOUND FOR PICTURE	
JMC 33043	DIGITAL CINEMATOGRAPHY	
Minimum Total Credit Hours:		20

### Graduation Requirements

Minimum Minor GPA	Minimum Overall GPA
2.700	2.000

- Minimum 6 credit hours in the minor must be upper-division coursework (30000 and 40000 level).
- Minimum 6 credit hours in the minor must be outside of the course requirements for any major or other minor the student is pursuing.
- Minimum 50 percent of the total credit hours for the minor must be taken at Kent State (in residence).

## Fashion Media - Minor

College of Communication and Information  
School of Journalism and Mass Communication  
201 Franklin Hall  
Kent Campus  
330-672-2572  
jmc@kent.edu  
www.kent.edu/jmc

### College of the Arts

School of Fashion Design and Merchandising  
226 Rockwell Hall  
Kent Campus  
330-672-3010  
FashionSchool@kent.edu  
www.kent.edu/fashion

### Description

The Fashion Media minor is for students studying either fashion merchandising or journalism and mass communication.

Fashion merchandising students take the Media Track to learn about the fashion media and better prepare them to understand this industry. The track includes a trip to New York City as a requirement.

Journalism and mass communication students take the Fashion Track to learn about the fashion publishing industry to better prepare them for work in this business. The track includes a trip to New York City to study fashion media.

### Fully Offered At:

- Kent Campus

### Admission Requirements

Admission to the minor is selective, open only to students declared in the Fashion Merchandising major or in a major in the School of Journalism and Mass Communication.

To declare the Fashion Media minor, students must have a minimum 2.000 overall Kent State University GPA. No Kent State University GPA is required if the student is a first-semester freshman or transfer student admitted in good standing.

### Minor Requirements

Code	Title	Credit Hours
<b>Minor Requirements</b>		
ENTR 27056	INTRODUCTION TO ENTREPRENEURSHIP	3
or FDM 35280	FASHION ENTREPRENEURSHIP	
FDM 10010	FASHION FUNDAMENTALS	3
JMC 41111	FASHION PUBLISHING	3
Media Track or Fashion Track, choose from the following:		15
<i>Media Track for Students Declared in Fashion Merchandising Major</i>		
EMAT 10310	MY STORY ON THE WEB	
FDM 35080	FASHION IN THE MEDIA <sup>1</sup>	
or JMC 46020	MAGAZINE DESIGN	
JMC 20005	FUNDAMENTALS OF MEDIA MESSAGES	
JMC 21008	SOCIAL MEDIA STRATEGIES	

VCD 37000	VISUAL DESIGN FOR MEDIA: ADVANCED
<i>Fashion Track for Students Declared in Major in School of Journalism and Mass Communication</i>	
FDM 25011	FASHION BRANDING
FDM 35010	CONTEMPORARY FASHION DESIGNERS (WIC)
FDM 35011	FASHION FORECASTING
FDM 35080	FASHION IN THE MEDIA <sup>1</sup>
FDM 45492	FIELD EXPERIENCE STUDY TOUR FOR NYC STUDIO STUDENTS (ELR)
or JMC 46091	NEW YORK MEDIA SEMINAR
Minimum Total Credit Hours: 24	

<sup>1</sup> FDM 35080 must be taken in New York City only.

## Graduation Requirements

Minimum Minor GPA	Minimum Overall GPA
2.700	2.000

- Minimum 6 credit hours in the minor must be upper-division coursework (30000 and 40000 level).
- Minimum 6 credit hours in the minor must be outside of the course requirements for any major or other minor the student is pursuing.
- Minimum 50 percent of the total credit hours for the minor must be taken at Kent State (in residence).

## Journalism - B.S.

### College of Communication and Information

School of Journalism and Mass Communication

201 Franklin Hall

Kent Campus

330-672-2572

mc@kent.edu

www.kent.edu/jmc

## Description

The Bachelor of Science degree in Journalism is a flexible degree program that offers a solid basis for informing communities in digital, visual and other formats such as broadcast, magazine media, multimedia and photojournalism, as well as the opportunity to combine elements of each specialty. Students gain critical skills in writing, reporting and producing journalism and they can customize communications experiences. Students must complete an internship in their field of specialization. Multiple internships are permitted.

Students are strongly encouraged to participate in various award-winning student media including the campus radio and television stations, the campus newspaper (print and online), and multiple independent student magazines (print and online.). Students are also encouraged to explore study-abroad and study-away experiences. For information, contact the Office of Global Education or coordinator of the college's International Study Programs.

Programs in the College of Communication and Information are, by nature, innovative, interdisciplinary and collaborative, which is critical to both professional and scholarly disciplines. Students are educated to work at the intersections of communication, information and technology. Through a core of diverse theory- and practice-based courses, students

learn basic concepts that apply across the range of college programs and develop a sense of professional expectations and build toward interdisciplinary thinking and application.

### Fully Offered At:

- Kent Campus

## Accreditation

Accrediting Council on Education in Journalism and Mass Communications (ACEJMC)

## Admission Requirements

The university affirmatively strives to provide educational opportunities and access to students with varied backgrounds, those with special talents and adult students who graduated from high school three or more years ago.

**Freshman Students on the Kent Campus:** The freshman admission policy on the Kent Campus is selective. Admission decisions are based upon the following: cumulative grade point average, ACT and/or SAT scores, strength of high school college preparatory curriculum and grade trends. The Admissions Office at the Kent Campus may defer the admission of students who do not meet admissions criteria but who demonstrate areas of promise for successful college study. Deferred applicants may begin their college coursework at one of seven regional campuses of Kent State University. For more information on admissions, including additional requirements for some academic programs, visit the admissions website for new freshmen.

**Freshman Students on the Regional Campuses:** Kent State campuses at Ashtabula, East Liverpool, Geauga, Salem, Stark, Trumbull and Tuscarawas, as well as the Regional Academic Center in Twinsburg, have open enrollment admission for students who hold a high school diploma, GED or equivalent.

### English Language Proficiency Requirements for International Students:

All international students must provide proof of English language proficiency (unless they meet specific exceptions) by earning a minimum 525 TOEFL score (71 on the Internet-based version), minimum 75 MELAB score, minimum 6.0 IELTS score or minimum 48 PTE score, or by completing the ESL level 112 Intensive Program. For more information on international admission, visit the Office of Global Education's admission website.

**Transfer, Transitioning and Former Students:** For more information about admission criteria for transfer, transitioning and former students, please visit the admissions website.

## Program Learning Outcomes

Graduates of this program will be able to:

1. Demonstrate critical thinking, grounded in a legal and ethical framework.
2. Gather information, analyze it and make informed judgments using methods and tools appropriate to their professions.
3. Demonstrate the ability to apply theory and research appropriate to their professions, including quantitative and qualitative methods.
4. Demonstrate the ability to apply basic ethical principles to their professional work.

- Demonstrate the ability to apply laws and regulations applicable to their professional work.
- Write correctly and clearly in forms and styles appropriate for the communications professions, audiences and purposes they serve.
- Demonstrate understanding of how media and their professions evolved historically, their role in societal development and their global interaction today with institutions and individuals.
- Demonstrate appreciation for diverse cultures and individual differences, and reflect that appreciation in their work.

## University Requirements

All students in a bachelor's degree program at Kent State University must complete the following university requirements for graduation.

**NOTE:** University requirements may be fulfilled in this program by specific course requirements. Please see Program Requirements for details.

Destination Kent State: First Year Experience	1
Course is not required for students with 25 transfer credits, excluding College Credit Plus, or age 21+ at time of admission.	
Diversity Domestic/Global (DIVD/DIVG)	2 courses
Students must successfully complete one domestic and one global course, of which one must be from the Kent Core.	
Experiential Learning Requirement (ELR)	varies
Students must successfully complete one course or approved experience.	
Kent Core (see table below)	36-37
Writing-Intensive Course (WIC)	1 course
Students must earn a minimum C grade in the course.	
Upper-Division Requirement	39 (or 42)
Students must successfully complete 39 upper-division (numbered 30000 to 49999) credit hours to graduate. Students in a B.A. and/or B.S. degree in the College of Arts and Sciences must complete 42 upper-division credit hours.	
Total Credit Hour Requirement	120
Some bachelor's degrees require students to complete more than 120 credit hours.	

## Kent Core Requirements

Kent Core Composition (KCMP)	6
Kent Core Mathematics and Critical Reasoning (KMCR)	3
Kent Core Humanities and Fine Arts (KHUM/KFA) (min one course each)	9
Kent Core Social Sciences (KSS) (must be from two disciplines)	6
Kent Core Basic Sciences (KBS/KLAB) (must include one laboratory)	6-7
Kent Core Additional (KADL)	6
<b>Total Credit Hours:</b>	<b>36-37</b>

## Program Requirements

### Major Requirements

Code	Title	Credit Hours
<b>Major Requirements (courses count in major GPA) (min C- grade required in all courses)</b>		
EMAT 10310	MY STORY ON THE WEB	3

JMC 20001	MEDIA, POWER AND CULTURE (DIVD) (KSS) <sup>1</sup>	3
JMC 26001	WRITING ACROSS PLATFORMS	3
JMC 26005	STORYTELLING ACROSS PLATFORMS	3
JMC 40006	LAW OF MASS COMMUNICATION	3
JMC 40010	ETHICS AND ISSUES IN MASS COMMUNICATION (WIC) <sup>1</sup>	3
JMC 40092	INTERNSHIP (ELR)	1
Journalism Skills Electives, choose from the following: <sup>2</sup>		9
CCI 12001	PHOTOGRAPHY	
JMC 26007	REPORTING	
JMC 26008	BROADCAST REPORTING	
JMC 26395	SPECIAL TOPICS IN JOURNALISM SKILLS	
JMC 32001	PHOTOJOURNALISM I	
JMC 36005	COPY EDITING AND NEWS DESIGN	
JMC 36010	INTERVIEWING AND DATA FOR JOURNALISTS	
JMC 36018	FEATURE WRITING	
JMC 36020	STORYTELLING WITH SOUND	
Journalism Specialization Electives, choose from the following: <sup>2</sup>		9
CCI 45091	SEMINAR IN MEDIA AND MOVEMENTS (ELR)	
JMC 22004	VISUAL STORYTELLING	
JMC 26007	REPORTING	
JMC 26008	BROADCAST REPORTING	
JMC 32001	PHOTOJOURNALISM I	
JMC 32002	PHOTOJOURNALISM II	
JMC 32005	VIDEO FOR STILL PHOTOGRAPHERS	
JMC 33024	BROADCAST PERFORMANCE	
JMC 36005	COPY EDITING AND NEWS DESIGN	
JMC 36008	FREELANCE JOURNALISM	
JMC 36018	FEATURE WRITING	
JMC 36040	MAGAZINE EDITING AND DESIGN	
JMC 36050	ADVANCED REPORTING	
JMC 36395	SPECIAL TOPICS IN JOURNALISM REPORTING	
JMC 40007	REVIEWING THE ARTS	
JMC 40015	MEDIA MARKETPLACE	
JMC 40027	MANAGING MEDIA DIVERSITY	
JMC 40295	SELECTED TOPICS IN JOURNALISM AND MASS COMMUNICATION	
JMC 46001	INFORMATION GRAPHICS	
JMC 46003	PRODUCING TELEVISION NEWS	
JMC 46006	OPINION WRITING	
JMC 46016	BUSINESS OF PUBLISHING	
JMC 46020	MAGAZINE DESIGN	
JMC 46052	ADVANCED BROADCAST REPORTING	
JMC 46091	NEW YORK MEDIA SEMINAR	
Journalism Culminating Experience Electives, choose from the following: <sup>2</sup>		6
JMC 40017	MEDIA ENTERPRISE	
JMC 42008	ADVANCED PHOTO TECHNIQUES	
JMC 43035	ADVANCED TELEVISION NEWS PRODUCING	
JMC 43092	STUDENT MEDIA PRACTICUM IN JOURNALISM (ELR)	
JMC 46007	INVESTIGATIVE REPORTING	
JMC 46009	REPORTING PUBLIC POLICY	
JMC 46021	ADVANCED MAGAZINE WRITING	
JMC 46054	BROADCAST DOCUMENTARY	
JMC 46055	DOCUMENTARY AND ENTREPRENEURIAL PHOTOGRAPHY	

JMC 46395	SPECIAL TOPICS IN JOURNALISM PRACTICE	
<b>Additional Requirements (courses do not count in major GPA)</b>		
COMM 21000	COMMUNICATION GRAMMAR REVIEW (min C grade)	1
ENTR 27056	INTRODUCTION TO ENTREPRENEURSHIP	3
POL 10004	COMPARATIVE POLITICS (DIVG) (KSS)	3
or POL 10100	AMERICAN POLITICS (DIVD) (KSS)	
or POL 10300	PUBLIC POLICY	
or POL 10500	WORLD POLITICS (DIVG) (KSS)	
UC 10097	DESTINATION KENT STATE: FIRST YEAR EXPERIENCE	1
College of Communication and Information Core Electives, choose from the following:		9
COMM 15000	INTRODUCTION TO HUMAN COMMUNICATION (KADL)	
COMM 35852	INTERCULTURAL COMMUNICATION (DIVG)	
EMAT 15310	CREATIVE CODING	
EMAT 33310	HUMAN-COMPUTER INTERACTION	
LIS 30010	INFORMATION FLUENCY IN THE WORKPLACE AND BEYOND	
UXD 20001	INTRODUCTION TO USER EXPERIENCE DESIGN	
VCD 13000	DESIGN: PRINCIPLES, PROCESSES AND PRACTICE	
Kent Core Composition		6
Kent Core Mathematics and Critical Reasoning		3
Kent Core Humanities and Fine Arts (minimum one from each)		9
Kent Core Social Sciences (must be from two disciplines)		3
Kent Core Basic Sciences (must include one laboratory)		6-7
Kent Core Additional		6
General Electives (total credit hours depends on earning 120 credit hours, including 39 upper-division credit hours) <sup>3</sup>		27
Minimum Total Credit Hours:		120

- <sup>1</sup> A minimum C grade must be earned to fulfill the writing-intensive requirement. If course is not being used to fulfill the writing-intensive requirement, a minimum grade of C- must be earned.
- <sup>2</sup> Students cannot apply these courses toward more than one of the JMC Elective categories.
- <sup>3</sup> All credits for general electives must be from outside the journalism and mass communication discipline.

### Progression Requirements

Students must maintain a 2.700 major GPA and a 2.000 overall GPA to continue taking JMC courses. Failure to do so will result in not being permitted to enroll in JMC courses. In addition, no grade lower than a C- in a JMC course will be counted toward graduation or as a prerequisite for a subsequent class.

### Graduation Requirements

Minimum Major GPA	Minimum Overall GPA
2.700	2.000

- Minimum 72 credit hours taken outside the discipline, see requirements for acceptable courses. Only general elective courses may be taken as pass/fail, of which maximum 12 credit hours may be taken as pass/fail.
- Any JMC course taken is calculated in the major GPA.

- A minimum C- grade is required in some courses.
- Students must complete minimum 72 credit hours **outside** the journalism and mass communication discipline per the Accrediting Council on Education in Journalism and Mass Communications. The following courses are considered within the discipline and **cannot** be used toward the 72-credit-hour requirement:
- All transfer coursework with a subject and number designator of TRAN, KAPS, COMM, JMC or VCD XXXXX will not count toward the 72-credit-hour requirement automatically, nor will Kent State coursework with a subject designator of CCI. Prior Kent State coursework with the subject designator of JOUR will also not count toward the 72-credit-hour requirement. Students must meet with their academic advisor for further evaluation of their coursework for applicability to this requirement.

Code	Title	Credit Hours
CCI 12001	PHOTOGRAPHY	3
CCI 45091	SEMINAR IN MEDIA AND MOVEMENTS (ELR)	3
COMM 25863	BUSINESS AND PROFESSIONAL COMMUNICATION	3
COMM 26001	PUBLIC COMMUNICATION IN SOCIETY	3
COMM 35860	INTERVIEWING	3
COMM 41000	SPORTS COMMUNICATION	3
COMM 42000	MEDIA, WAR AND PROPAGANDA	3
COMM 45007	FREEDOM OF SPEECH	3
COMM 45902	COMMUNICATION AND INFLUENCE (WIC)	3
COMM 46503	HEALTH COMMUNICATION AND MEDIA	3
EMAT 10310	MY STORY ON THE WEB	3
Any Journalism Mass Communication (JMC) courses		
VCD 32000	ILLUSTRATION I	3
VCD 32001	ILLUSTRATION II	3
VCD 33000	GRAPHIC DESIGN I	3
VCD 33001	GRAPHIC DESIGN II	3
VCD 34005	INTRODUCTION TO 3D GRAPHIC DESIGN	3
VCD 38001	PHOTOGRAPHICS	3
VCD 38004	ADVANCED PHOTOGRAPHY	3
VCD 38007	EMERGING PHOTOGRAPHY	3
VCD 38011	EDITORIAL PHOTOGRAPHY	3
VCD 42000	ADVANCED ILLUSTRATION: MEDIA	3
VCD 42002	EDITORIAL ILLUSTRATION	3
VCD 42003	ADVERTISING ILLUSTRATION	3
VCD 48005	COLOR PHOTOGRAPHY	3
VCD 48008	ADVANCED DIGITAL IMAGING	3

### Roadmap

This roadmap is a recommended semester-by-semester plan of study for this major. However, courses designated as critical (!) must be completed in the semester listed to ensure a timely graduation.

Semester One		Credits
JMC 20001	MEDIA, POWER AND CULTURE (DIVD) (KSS)	3
UC 10097	DESTINATION KENT STATE: FIRST YEAR EXPERIENCE	1
College of Communication and Information Core Electives		3
Kent Core Requirement		3
Kent Core Requirement		3



Kent Core Requirement		3
Credit Hours		16
<b>Semester Two</b>		
COMM 21000	COMMUNICATION GRAMMAR REVIEW	1
EMAT 10310	MY STORY ON THE WEB	3
JMC 26001	WRITING ACROSS PLATFORMS	3
Kent Core Requirement		3
Kent Core Requirement		3
Kent Core Requirement		3
Credit Hours		16
<b>Semester Three</b>		
JMC 26005	STORYTELLING ACROSS PLATFORMS	3
Journalism Skills Electives		3
College of Communication and Information Core Electives		3
Kent Core Requirement		3
Credit Hours		12
<b>Semester Four</b>		
ENTR 27056	INTRODUCTION TO ENTREPRENEURSHIP	3
Journalism Skills Electives		3
Kent Core Requirement		3
Kent Core Requirement		3
Kent Core Requirement		3
Credit Hours		15
<b>Semester Five</b>		
POL 10004	COMPARATIVE POLITICS (DIVG) (KSS)	3
or	or AMERICAN POLITICS (DIVD) (KSS)	
POL 10100	or PUBLIC POLICY	
or	or WORLD POLITICS (DIVG) (KSS)	
POL 10300		
or		
POL 10500		
Journalism Skills Electives		3
Journalism Specialization Electives		6
General Electives		3
Credit Hours		15
<b>Semester Six</b>		
Journalism Specialization Electives		3
College of Communication and Information Core Electives		3
Kent Core Requirement		3
General Electives		6
Credit Hours		15
<b>Third Summer Term</b>		
JMC 40092	INTERNSHIP (ELR)	1
Credit Hours		1
<b>Semester Seven</b>		
JMC 40006	LAW OF MASS COMMUNICATION	3
Journalism Culminating Experience Electives		3
General Electives		9
Credit Hours		15
<b>Semester Eight</b>		
JMC 40010	ETHICS AND ISSUES IN MASS COMMUNICATION (WIC)	3
Journalism Culminating Experience Electives		3
General Electives		9
Credit Hours		15
Minimum Total Credit Hours:		120

## Journalism and Mass Communication - M.A.

### College of Communication and Information

School of Journalism and Mass Communication

201 Franklin Hall

Kent Campus

330-672-2572

jmc@kent.edu

www.kent.edu/jmc

## Description

The Master of Arts degree in Journalism and Mass Communication is designed to give students a solid background in preparation for a professional career. Students are able to take a mix of online and face-to-face courses that allow them to craft a graduate degree that reflects their career interest. Courses are dynamic, challenging and professionally relevant. With small class sizes, students are able to learn from their professors and from the experiences of their fellow classmates, many of whom are working media professionals or nationally recognized journalism educators.

The Journalism and Mass Communication major offers the following optional concentration:

- The **Journalism Education** concentration is intended for those seeking to teach or advise student journalists. The program is affiliated with Kent State's Center for Scholastic Journalism, and faculty include some of the most-recognized high school journalism educators in the country. The coursework focuses on concepts and lessons that can be used in a teacher's classroom right away

The School of Journalism and Mass Communication provides its students with a strong foundation to achieve their goals in the rapidly changing media industry. All students take a series of core courses that provide the foundation for a journalism and mass communication career and develop a specialization through the selection of elective courses that can be within or outside of the school. One student may choose to hone skills as a multimedia journalist focusing on public affairs, while another may seek to develop expertise as a public relations professional for not-for-profit organizations. All students will work with an advisor to plan a course of study that meets their professional needs.

## Fully Offered At:

- Online (Journalism Education concentration only)
- Kent Campus

## Admission Requirements

- Bachelor's degree from an accredited college or university for unconditional admission
- Minimum 3.000 undergraduate GPA on a 4.000 point scale for unconditional admission
- Official transcript(s)
- Résumé or vitae
- Goal statement
- Writing sample<sup>1</sup>

- Two letters of recommendation<sup>2</sup>
- English language proficiency - all international students must provide proof of English language proficiency (unless they meet specific exceptions) by earning one of the following:
  - Minimum 587 TOEFL PBT score (paper-based version)
  - Minimum 94 TOEFL IBT score (Internet-based version)
  - Minimum 82 MELAB score
  - Minimum 7.0 IELTS score
  - Minimum 65 PTE score
  - Minimum 110 Duolingo English Test score

For more information about graduate admissions, please visit the Graduate Studies admission website. For more information on international admission, visit the Office of Global Education's admission website.

- <sup>1</sup> A minimum of one writing sample will be required. The writing sample may be a news article, script from a news story, paper submitted for a college course, personal essay about a topic of interest or some other original non-fictional written work.
- <sup>2</sup> At least one letter must be from a college professor who is familiar with the applicant's work. If the applicant has significant work experience (five or more years), the letter from a college professor may be replaced with a letter from an employer who is familiar with the applicant's work.

## Program Learning Outcomes

Graduates of this program will be able to:

1. Communicate effectively across multiple platforms.
2. Demonstrate an understanding of relevant ethical and legal frameworks in their disciplines.
3. Ground their professional work in relevant theories.
4. Represent high levels of professionalism.

## Program Requirements

### Major Requirements

Code	Title	Credit Hours
<b>Major Requirements</b>		
JMC 60007	RESEARCH METHODS IN MASS COMMUNICATION	3
JMC 60011	THEORY AND SOCIETAL ROLE OF MASS MEDIA	3
JMC 60012	MASS COMMUNICATION LAW AND ETHICS	3
JMC 61001	PRINCIPLES AND PRACTICES OF DIGITAL MEDIA	3
JMC 66011	REPORTING, WRITING AND EDITING FOR MEDIA	3
<b>Additional Requirements or Concentration</b>		
Choose from the following:		18
Additional Requirements for Students Not Declaring a Concentration		
Journalism Education Concentration		
Minimum Total Credit Hours:		33

### Additional Requirements for Students Not Declaring a Concentration

Code	Title	Credit Hours
<b>Major Requirements</b>		
JMC 60199 or JMC 60396	THESIS I MASTER'S PROFESSIONAL PROJECT	3-6
Major Approved Electives, choose from the following:		15
Communication Studies (COMM) Courses		
Emerging Media and Technology (EMAT) Courses		
Health Informatics (HI) Courses		
Journalism and Mass Communication (JMC) Courses		
Knowledge Management (KM) Courses		
Library and Information Science (LIS) Courses		
User Experience Design (UXD) Courses		
Visual Communication Design (VCD) Courses		
Advisor-Approved Courses		
Minimum Total Credit Hours:		18

### Journalism Education Concentration Requirements

Code	Title	Credit Hours
<b>Concentration Requirements</b>		
JMC 60003	TEACHING JOURNALISM ETHICS	3
JMC 60396	MASTER'S PROFESSIONAL PROJECT	3
JMC 60701	ADVISING STUDENT MEDIA	3
Journalism and Mass Communication-Approved Electives		9
Minimum Total Credit Hours:		18

### Graduation Requirements

- Minimum 50 percent of coursework must be at the 60000 level and must have JMC course subject.
- Maximum 4 credit hours of workshop courses (xxx93) may count toward the degree.

## Media Literacy - Minor

**College of Communication and Information**  
 School of Journalism and Mass Communication  
 201 Franklin Hall  
 Kent Campus  
 330-672-2572  
 jmc@kent.edu  
 www.kent.edu/jmc

### Description

The Media Literacy minor gives a broad overview of the media from an information, as opposed to skills, perspective.

### Fully Offered At:

- Kent Campus

## Admission Requirements

Admission to a minor is open to students declared in a bachelor's degree, the A.A.B. or A.A.S. degree or the A.T.S. degree (not Individualized Program major). Students declared only in the A.A. or A.S. degree or the A.T.S. degree in Individualized Program may not declare a minor. Students may not pursue a minor and a major in the same discipline.

To declare the Media Literacy minor, students must have a minimum 2.000 overall Kent State University GPA. No Kent State University GPA is required if the student is a first-semester freshman or transfer student admitted in good standing.

## Minor Requirements

Code	Title	Credit Hours
<b>Minor Requirements</b>		
JMC 20001	MEDIA, POWER AND CULTURE (DIVD) (KSS)	3
JMC 20005	FUNDAMENTALS OF MEDIA MESSAGES	3
JMC 21001	PRINCIPLES OF ADVERTISING	3
JMC 28001	PRINCIPLES OF PUBLIC RELATIONS	3
JMC 30034	PROGRAMMING FOR DIGITAL MEDIA	3
JMC 40006	LAW OF MASS COMMUNICATION	3
JMC 40022	FILM AS COMMUNICATION	3
Minimum Total Credit Hours:		21

## Graduation Requirements

Minimum Minor GPA	Minimum Overall GPA
2.700	2.000

- Minimum 6 credit hours in the minor must be upper-division coursework (30000 and 40000 level).
- Minimum 6 credit hours in the minor must be outside of the course requirements for any major or other minor the student is pursuing.
- Minimum 50 percent of the total credit hours for the minor must be taken at Kent State (in residence).

## Photojournalism - Minor

**College of Communication and Information**  
 School of Journalism and Mass Communication  
 201 Franklin Hall  
 Kent Campus  
 330-672-2572  
 jmc@kent.edu  
 www.kent.edu/jmc

## Description

The Photojournalism minor teaches basic visual storytelling and photojournalism.

### Fully Offered At:

- Kent Campus

## Admission Requirements

Admission to a minor is open to students declared in a bachelor's degree, the A.A.B. or A.A.S. degree or the A.T.S. degree (not Individualized

Program major). Students declared only in the A.A. or A.S. degree or the A.T.S. degree in Individualized Program may not declare a minor. Students may not pursue a minor and a major in the same discipline.

To declare the Photojournalism minor, students must have a minimum 2.000 overall Kent State University GPA. No Kent State University GPA is required if the student is a first-semester freshman or transfer student admitted in good standing.

## Minor Requirements

Code	Title	Credit Hours
<b>Minor Requirements</b>		
CCI 12001	PHOTOGRAPHY	3
EMAT 10310	MY STORY ON THE WEB	3
JMC 22004	VISUAL STORYTELLING	3
JMC 26001	WRITING ACROSS PLATFORMS	3
JMC 32001	PHOTOJOURNALISM I	3
JMC 32002	PHOTOJOURNALISM II	3
VCD 13000	DESIGN: PRINCIPLES, PROCESSES AND PRACTICE	3
or VCD 14001	VISUAL DESIGN LITERACY	
VCD 37000	VISUAL DESIGN FOR MEDIA: ADVANCED	3
Minimum Total Credit Hours:		24

## Graduation Requirements

Minimum Minor GPA	Minimum Overall GPA
2.700	2.000

- Minimum 6 credit hours in the minor must be upper-division coursework (30000 and 40000 level).
- Minimum 6 credit hours in the minor must be outside of the course requirements for any major or other minor the student is pursuing.
- Minimum 50 percent of the total credit hours for the minor must be taken at Kent State (in residence).

## Public Relations - B.S.

**College of Communication and Information**  
 School of Journalism and Mass Communication  
 201 Franklin Hall  
 Kent Campus  
 330-672-2572  
 jmc@kent.edu  
 www.kent.edu/jmc

## Description

The Bachelor of Science degree in Public Relations leads students to many career paths, from corporate boardrooms and creative agencies to sports arenas, the halls of Congress, global nonprofits, hospitals, fashion runways, and well beyond. Graduates leave grounded in the practice of responsible advocacy with a firm grasp of inclusive communication practices necessary in 21st century workplaces. Kent State boasts the only public relations program in Ohio that is both certified by the Public Relations Society of America (PRSA) and accredited by the Accrediting Council on Education in Journalism and Mass Communication (ACEJMC).

The public relations major is rooted in professionalism, with a focus on developing writing and critical thinking skills and building students' understanding of multimedia storytelling. Students develop skills in written, digital, verbal and visual communications, as well as in research and measurement of communication effectiveness. Students are trained to deliver messages through social media, websites, podcasts, videos, press releases and other media tools, events, speeches, printed materials, public policy and more.

Numerous hands-on learning opportunities allow students to develop plans, strategies and tactics that would be produced in the public relations field. Often, projects relate to actual client communication challenges. In campaign projects, students complete research and create and present a public relations plan for a real client. In addition, they are required to complete 150 hours of a professional internship.

Public relations students have numerous opportunities to gain relevant experience. They can apply for positions at two student-staffed agencies, Flash Communications and IdeaBase. Flash Communications is a student PR agency located in Kent State's University Communications and Marketing division and managed by a full-time PR faculty member. IdeaBase, an integrated marketing and communications firm, is staffed by students majoring in public relations, advertising, design and other disciplines. Public relations students are often recruited to apply their skills at a range of campus jobs. Students are encouraged to become part of Kent State's nationally recognized independent student media, which provides opportunities to work on Kent State's newspaper, news site, TV station, magazines and radio station.

Students also have the opportunity to be involved with the award-winning Kent State Chapter of the Public Relations Student Society of America (PRSSA). In October 2019, the chapter received the Outstanding Chapter Award at PRSSA's national conference, the second time since 2014 it received PRSSA's highest national honor. Kent State's chapter is one of only 12 'star' chapters in PRSSA and has received nine national awards in 10 years.

Programs in the College of Communication and Information are, by nature, innovative, interdisciplinary and collaborative, which is critical to both professional and scholarly disciplines. Students are educated to work at the intersections of communication, information and technology. Through a core of diverse theory- and practice-based courses, students learn basic concepts that apply across the range of college programs and develop a sense of professional expectations and build toward interdisciplinary thinking and application.

There are many short- and long-term study abroad/away opportunities. For more information contact the Office of Global Education or CCI's coordinator of International Study Programs.

### Fully Offered At:

- Kent Campus

## Accreditation

Accrediting Council on Education in Journalism and Mass Communications (ACEJMC); Public Relations Society of America (PRSA) - Certification in Education for Public Relations

## Admission Requirements

The university affirmatively strives to provide educational opportunities and access to students with varied backgrounds, those with special talents and adult students who graduated from high school three or more years ago.

**Freshman Students on the Kent Campus:** The freshman admission policy on the Kent Campus is selective. Admission decisions are based upon the following: cumulative grade point average, ACT and/or SAT scores, strength of high school college preparatory curriculum and grade trends. The Admissions Office at the Kent Campus may defer the admission of students who do not meet admissions criteria but who demonstrate areas of promise for successful college study. Deferred applicants may begin their college coursework at one of seven regional campuses of Kent State University. For more information on admissions, including additional requirements for some academic programs, visit the admissions website for new freshmen.

**Freshman Students on the Regional Campuses:** Kent State campuses at Ashtabula, East Liverpool, Geauga, Salem, Stark, Trumbull and Tuscarawas, as well as the Regional Academic Center in Twinsburg, have open enrollment admission for students who hold a high school diploma, GED or equivalent.

**English Language Proficiency Requirements for International Students:** All international students must provide proof of English language proficiency (unless they meet specific exceptions) by earning a minimum 525 TOEFL score (71 on the Internet-based version), minimum 75 MELAB score, minimum 6.0 IELTS score or minimum 48 PTE score, or by completing the ESL level 112 Intensive Program. For more information on international admission, visit the Office of Global Education's admission website.

**Transfer, Transitioning and Former Students:** For more information about admission criteria for transfer, transitioning and former students, please visit the admissions website.

**Current Kent State Students:** Active Kent State students who wish to change their major to Public Relations must have a minimum 2.000 overall GPA to be admitted.

## Program Learning Outcomes

Graduates of this program will be able to:

1. Demonstrate critical thinking, grounded in a legal and ethical framework.
2. Gather information, analyze it and make informed judgments using methods and tools appropriate to their professions.
3. Demonstrate the ability to apply theory and research appropriate to their professions, including quantitative and qualitative methods.
4. Demonstrate the ability to apply basic ethical principles to their professional work.
5. Demonstrate the ability to apply laws and regulations applicable to their professional work.
6. Write correctly and clearly in forms and styles appropriate for the communications professions, audiences and purposes they serve.
7. Demonstrate understanding of how media and their professions evolved historically, their role in societal development and their global interaction today with institutions and individuals.

8. Demonstrate appreciation for diverse cultures and individual differences, and reflect that appreciation in their work.

## University Requirements

All students in a bachelor's degree program at Kent State University must complete the following university requirements for graduation.

**NOTE:** University requirements may be fulfilled in this program by specific course requirements. Please see Program Requirements for details.

Destination Kent State: First Year Experience	1
Course is not required for students with 25 transfer credits, excluding College Credit Plus, or age 21+ at time of admission.	
Diversity Domestic/Global (DIVD/DIVG)	2 courses
Students must successfully complete one domestic and one global course, of which one must be from the Kent Core.	
Experiential Learning Requirement (ELR)	varies
Students must successfully complete one course or approved experience.	
Kent Core (see table below)	36-37
Writing-Intensive Course (WIC)	1 course
Students must earn a minimum C grade in the course.	
Upper-Division Requirement	39 (or 42)
Students must successfully complete 39 upper-division (numbered 30000 to 49999) credit hours to graduate. Students in a B.A. and/or B.S. degree in the College of Arts and Sciences must complete 42 upper-division credit hours.	
Total Credit Hour Requirement	120
Some bachelor's degrees require students to complete more than 120 credit hours.	

## Kent Core Requirements

Kent Core Composition (KCOMP)	6
Kent Core Mathematics and Critical Reasoning (KMCR)	3
Kent Core Humanities and Fine Arts (KHUM/KFA) (min one course each)	9
Kent Core Social Sciences (KSS) (must be from two disciplines)	6
Kent Core Basic Sciences (KBS/KLAB) (must include one laboratory)	6-7
Kent Core Additional (KADL)	6
<b>Total Credit Hours:</b>	<b>36-37</b>

## Program Requirements

### Major Requirements

Code	Title	Credit Hours
<b>Major Requirements (courses count in major GPA) (min C- grade required in all courses)</b>		
EMAT 10310	MY STORY ON THE WEB	3
JMC 20001	MEDIA, POWER AND CULTURE (DIVD) (KSS) <sup>1</sup>	3
JMC 20008	RESEARCH AND MEASUREMENT IN ADVERTISING AND PUBLIC RELATIONS	3
JMC 26001	WRITING ACROSS PLATFORMS	3
JMC 26007	REPORTING	3
or JMC 26008	BROADCAST REPORTING	
JMC 28001	PRINCIPLES OF PUBLIC RELATIONS	3

JMC 31007	DIGITAL ANALYTICS IN ADVERTISING AND PUBLIC RELATIONS	2
JMC 38002	PUBLIC RELATIONS CASE STUDIES	3
JMC 40011	ETHICAL ISSUES IN INTEGRATED COMMUNICATION	1
JMC 40016	LAW OF ADVERTISING AND PUBLIC RELATIONS	3
JMC 40092	INTERNSHIP (ELR)	1
JMC 48001	MEDIA RELATIONS AND PUBLICITY (WIC) <sup>2</sup>	3
JMC 48002	PUBLIC RELATIONS TACTICS	3
JMC 48003	DIGITAL PUBLIC RELATIONS	3
JMC 48006	PUBLIC RELATIONS PUBLICATIONS	3
JMC 48091	SEMINAR: PUBLIC RELATIONS CAMPAIGNS	3
Journalism and Mass Communication Electives, choose from the following:		5
CCI 45091	SEMINAR IN MEDIA AND MOVEMENTS (ELR)	
JMC 21004	ADVERTISING AND PUBLIC RELATIONS INDUSTRY TOOLS	
JMC 26005	STORYTELLING ACROSS PLATFORMS	
JMC 40201	PUBLIC RELATIONS PRACTICE: PUBLIC AFFAIRS	
JMC 40202	PUBLIC RELATIONS PRACTICE: CRISIS COMMUNICATION	
JMC 41111	FASHION PUBLISHING	
JMC 41150	GLOBAL ADVERTISING AND PUBLIC RELATIONS	
JMC 41192	PRACTICUM IN ADVERTISING AND PUBLIC RELATIONS (ELR)	
<b>Additional Requirements (courses do not count in major GPA)</b>		
COMM 21000	COMMUNICATION GRAMMAR REVIEW (min C grade)	1
UC 10097	DESTINATION KENT STATE: FIRST YEAR EXPERIENCE	1
College of Communication and Information Core Electives, choose from the following:		9
COMM 15000	INTRODUCTION TO HUMAN COMMUNICATION (KADL)	
COMM 35852	INTERCULTURAL COMMUNICATION (DIVG)	
EMAT 15310	CREATIVE CODING	
EMAT 33310	HUMAN-COMPUTER INTERACTION	
LIS 30010	INFORMATION FLUENCY IN THE WORKPLACE AND BEYOND	
UXD 20001	INTRODUCTION TO USER EXPERIENCE DESIGN	
VCD 13000	DESIGN: PRINCIPLES, PROCESSES AND PRACTICE	

Kent Core Composition	6
Kent Core Mathematics and Critical Reasoning	3
Kent Core Humanities and Fine Arts (minimum one from each)	9
Kent Core Social Sciences (must be from two disciplines)	3
Kent Core Basic Sciences (must include one laboratory)	6-7
Kent Core Additional	6
General Electives (total credit hours depends on earning 120 credit hours, including 39 upper-division credit hours) <sup>2</sup>	28
<b>Minimum Total Credit Hours:</b>	<b>120</b>

<sup>1</sup> A minimum C grade must be earned to fulfill the writing-intensive requirement. If course is not being used to fulfill the writing-intensive requirement, a minimum C- grade must be earned.



<sup>2</sup> All general elective credit hours must be taken outside of the discipline. For students interested in developing a global perspective, foreign language courses or any of the following general elective courses are recommended: ANTH 18210, ANTH 48245, PACS 32030, PACS 32040, COMM 35852, GEOG 22040, MCLS 20091, MUS 22121, PH 10002, POL 10500.

## Progression Requirements

Students must maintain a 2.700 major GPA and a 2.000 overall GPA in order to continue taking JMC courses. Failure to do so will result in not being permitted to enroll in JMC courses. In addition, no grade lower than a C- in a JMC course will be counted toward graduation or as a prerequisite for a subsequent class.

## Graduation Requirements

Minimum Major GPA	Minimum Overall GPA
2.700	2.000

- Minimum 72 credit hours taken outside the discipline, see requirements for acceptable courses. Only general elective courses may be taken as pass/fail, of which maximum 12 credit hours may be taken as pass/fail.
- Any JMC course taken is calculated in the major GPA.
- A minimum C- grade may be required in some courses.
- Students must complete minimum 72 credit hours **outside** the journalism and mass communication discipline per the Accrediting Council on Education in Journalism and Mass Communications. The following courses are considered within the discipline and **cannot** be used toward the 72-credit-hour requirement:
- All transfer coursework with a subject and number designator of TRAN, KAPS, COMM, JMC or VCD XXXXX will not count toward the 72-credit-hour requirement automatically, nor will Kent State coursework with a subject designator of CCI. Prior Kent State coursework with the subject designator of JOUR will also not count toward the 72-credit-hour requirement. Students must meet with their academic advisor for further evaluation of their coursework for applicability to this requirement.

Code	Title	Credit Hours
CCI 12001	PHOTOGRAPHY	3
CCI 45091	SEMINAR IN MEDIA AND MOVEMENTS (ELR)	3
COMM 25863	BUSINESS AND PROFESSIONAL COMMUNICATION	3
COMM 26001	PUBLIC COMMUNICATION IN SOCIETY	3
COMM 35860	INTERVIEWING	3
COMM 41000	SPORTS COMMUNICATION	3
COMM 42000	MEDIA, WAR AND PROPAGANDA	3
COMM 45007	FREEDOM OF SPEECH	3
COMM 45902	COMMUNICATION AND INFLUENCE (WIC)	3
COMM 46503	HEALTH COMMUNICATION AND MEDIA	3
EMAT 10310	MY STORY ON THE WEB	3
Any Journalism Mass Communication (JMC) courses		
VCD 32000	ILLUSTRATION I	3
VCD 32001	ILLUSTRATION II	3
VCD 33000	GRAPHIC DESIGN I	3
VCD 33001	GRAPHIC DESIGN II	3
VCD 34005	INTRODUCTION TO 3D GRAPHIC DESIGN	3

VCD 38001	PHOTOGRAPHICS	3
VCD 38004	ADVANCED PHOTOGRAPHY	3
VCD 38007	EMERGING PHOTOGRAPHY	3
VCD 38011	EDITORIAL PHOTOGRAPHY	3
VCD 42000	ADVANCED ILLUSTRATION: MEDIA	3
VCD 42002	EDITORIAL ILLUSTRATION	3
VCD 42003	ADVERTISING ILLUSTRATION	3
VCD 48005	COLOR PHOTOGRAPHY	3
VCD 48008	ADVANCED DIGITAL IMAGING	3

## Roadmap

This roadmap is a recommended semester-by-semester plan of study for this major. However, courses designated as critical (!) must be completed in the semester listed to ensure a timely graduation.

Semester One		Credits
JMC 20001	MEDIA, POWER AND CULTURE (DIVD) (KSS)	3
! JMC 28001	PRINCIPLES OF PUBLIC RELATIONS	3
UC 10097	DESTINATION KENT STATE: FIRST YEAR EXPERIENCE	1
Kent Core Requirement		3
Kent Core Requirement		3
Kent Core Requirement		3
Credit Hours		16
Semester Two		
COMM 21000	COMMUNICATION GRAMMAR REVIEW	1
EMAT 10310	MY STORY ON THE WEB	3
JMC 26001	WRITING ACROSS PLATFORMS	3
Kent Core Requirement		3
Kent Core Requirement		3
Kent Core Requirement		3
Credit Hours		16
Semester Three		
JMC 20008	RESEARCH AND MEASUREMENT IN ADVERTISING AND PUBLIC RELATIONS	3
! JMC 38002	PUBLIC RELATIONS CASE STUDIES	3
Kent Core Requirement		3
Kent Core Requirement		3
General Electives		3
Credit Hours		15
Semester Four		
! JMC 26007	REPORTING	3
or	or BROADCAST REPORTING	
JMC 26008		
JMC 48002	PUBLIC RELATIONS TACTICS	3
or	or PUBLIC RELATIONS PUBLICATIONS	
JMC 48006		
College of Communication and Information Core Electives		3
Kent Core Requirement		3
Kent Core Requirement		3
Credit Hours		15
Semester Five		
JMC 31007	DIGITAL ANALYTICS IN ADVERTISING AND PUBLIC RELATIONS	2
JMC 48002	PUBLIC RELATIONS TACTICS	3
or	or PUBLIC RELATIONS PUBLICATIONS	
JMC 48006		
Journalism and Mass Communication Elective		3

Kent Core Requirement		3
General Electives		4
Credit Hours		15
<b>Semester Six</b>		
JMC 48001	MEDIA RELATIONS AND PUBLICITY (WIC)	3
JMC 48003	DIGITAL PUBLIC RELATIONS	3
College of Communication and Information Core Electives		3
General Electives		6
Credit Hours		15
<b>Third Summer Term</b>		
JMC 40092	INTERNSHIP (ELR)	1
Credit Hours		1
<b>Semester Seven</b>		
JMC 40016	LAW OF ADVERTISING AND PUBLIC RELATIONS or SEMINAR: PUBLIC RELATIONS CAMPAIGNS	3
JMC 48091		
Journalism and Mass Communication Elective		2
College of Communication and Information Core Electives		3
General Electives		6
Credit Hours		14
<b>Semester Eight</b>		
JMC 40011	ETHICAL ISSUES IN INTEGRATED COMMUNICATION	1
JMC 40016	LAW OF ADVERTISING AND PUBLIC RELATIONS or SEMINAR: PUBLIC RELATIONS CAMPAIGNS	3
JMC 48091		
General Electives		9
Credit Hours		13
Minimum Total Credit Hours:		120

## Public Relations - Minor

**College of Communication and Information**  
School of Journalism and Mass Communication  
201 Franklin Hall  
Kent Campus  
330-672-2572  
jmc@kent.edu  
www.kent.edu/jmc

### Description

The Public Relations minor teaches the news writing, case study and publications elements of the public relations business, as well as online, digital and social media strategies.

### Fully Offered At:

- Kent Campus

### Admission Requirements

Admission to a minor is open to students declared in a bachelor's degree, the A.A.B. or A.A.S. degree or the A.T.S. degree (not Individualized Program major). Students declared only in the A.A. or A.S. degree or the A.T.S. degree in Individualized Program may not declare a minor. Students may not pursue a minor and a major in the same discipline.

To declare the Public Relations minor, students must have a minimum 2.000 overall Kent State University GPA. No Kent State University GPA is

required if the student is a first-semester freshman or transfer student admitted in good standing.

## Minor Requirements

Code	Title	Credit Hours
<b>Minor Requirements</b>		
COMM 21000	COMMUNICATION GRAMMAR REVIEW	1
COMM 30000	COMMUNICATION RESEARCH METHODS	3
EMAT 10310	MY STORY ON THE WEB	3
JMC 21008	SOCIAL MEDIA STRATEGIES	3
JMC 26001	WRITING ACROSS PLATFORMS	3
JMC 28001	PRINCIPLES OF PUBLIC RELATIONS	3
JMC 38002	PUBLIC RELATIONS CASE STUDIES	3
JMC 48002	PUBLIC RELATIONS TACTICS	3
or JMC 48006	PUBLIC RELATIONS PUBLICATIONS	
Minimum Total Credit Hours:		22

## Graduation Requirements

Minimum Minor GPA	Minimum Overall GPA
2.700	2.000

- Minimum 6 credit hours in the minor must be upper-division coursework (30000 and 40000 level).
- Minimum 6 credit hours in the minor must be outside of the course requirements for any major or other minor the student is pursuing.
- Minimum 50 percent of the total credit hours for the minor must be taken at Kent State (in residence).

## Visual Journalism - Minor

**College of Communication and Information**  
School of Journalism and Mass Communication  
201 Franklin Hall  
Kent Campus  
330-672-2572  
jmc@kent.edu  
www.kent.edu/jmc

### Description

The Visual Journalism minor teaches the basic photography, videography and page layout design for publication in a variety of media outlets.

### Fully Offered At:

- Kent Campus

### Admission Requirements

Admission to this minor is selective, open only to students declared in a major in the College of Communication and Information.

To declare the Visual Journalism minor, students must have a minimum 2.000 overall Kent State University GPA. No Kent State University GPA is required if the student is a first-semester freshman or transfer student admitted in good standing.

## Minor Requirements

Code	Title	Credit Hours
<b>Minor Requirements</b>		
CCI 12001	PHOTOGRAPHY	3
COMM 21000	COMMUNICATION GRAMMAR REVIEW	1
EMAT 10310	MY STORY ON THE WEB	3
JMC 26001	WRITING ACROSS PLATFORMS	3
JMC 26005	STORYTELLING ACROSS PLATFORMS	3
JMC 32001	PHOTOJOURNALISM I	3
JMC 46020	MAGAZINE DESIGN	3
VCD 37000	VISUAL DESIGN FOR MEDIA: ADVANCED	3
Minimum Total Credit Hours:		22

## Graduation Requirements

Minimum Minor GPA	Minimum Overall GPA
2.700	2.000

- Minimum 6 credit hours in the minor must be upper-division coursework (30000 and 40000 level).
- Minimum 6 credit hours in the minor must be outside of the course requirements for any major or other minor the student is pursuing.
- Minimum 50 percent of the total credit hours for the minor must be taken at Kent State (in residence).

## School of Visual Communication Design

### College of Communication and Information

School of Visual Communication Design

241 Taylor Hall

Kent Campus

330-672-7856

vcd@kent.edu

www.kent.edu/vcd

## Undergraduate Programs

- Photography - B.F.A.
- Visual Communication Design - B.A.
- Visual Communication Design - B.F.A.

## Minors

- Design
- Information Design
- Photography
- User Experience Design

## Graduate Programs

- Visual Communication Design - M.A.
- Visual Communication Design - M.F.A.

## School of Visual Communication Design Faculty

- Barness, Jessica S. (2012), Associate Professor, M.F.A., University of Minnesota, Twin Cities, 2012
- Bell, Timothy J. (2015), Assistant Professor, M.Arch., Columbia University, 2012
- Coorey, Jillian S. (2010), Associate Professor, M.F.A., University of Illinois at Chicago, 2010
- Goldsmith, Douglas M. (1988), Assistant Professor, M.F.A., Carnegie Mellon University, 1988
- Inderhees, Joan E. (2018), Senior Lecturer, Ph.D., Kent State University, 2018
- Katila, Sanda S. (1990), Associate Professor, M.F.A., Kent State University, 1993
- Kennedy, Jaime D. (2007), Associate Professor, M.F.A., The Ohio State University, 2006
- King, Larrie L. (2012), Assistant Professor, M.F.A., Kent State University, 2014
- McConaughy, Kathleen M. (2018), Lecturer, B.F.A., Kent State University, 1980
- Middleton, David A. (1998), Professor, M.A., Kent State University, 1985
- Mooney, Aoife (2013), Assistant Professor, M.F.A., Reading University, 2010
- O'Grady, Kenneth J. (1997), Professor, M.F.A., Kent State University, 2000
- Peters, Daphne F. (2014), Assistant Professor, B.Arch., Carnegie Mellon University, 2002
- Ransom, Christopher T. (1996), Associate Professor, M.F.A., University of Delaware, 1993
- Renicker, Valora (1994), Professor, M.F.A., Kent State University, 2001
- Rinnert, Gretchen C. (2008), Associate Professor, M.F.A., North Carolina State University at Raleigh, 2008
- Roll, David (2015), Assistant Professor, M.A., Kent State University, 2007

## Summer Visual Communication Design (SVCD)

### SVCD 45011 SUMMER DESIGN STUDIO 1-4 Credit Hours

(Repeatable for a maximum of 16 credit hours) Summer course offerings investigating specialized areas of graphic design, illustration or photography taught primarily by guest faculty.

**Prerequisite:** None.

**Schedule Type:** Lecture, Studio

**Contact Hours:** 7.5-30 lecture, 12.5-45 other

**Grade Mode:** Standard Letter-S/U

### SVCD 55011 SUMMER DESIGN STUDIO 1-4 Credit Hours

(Repeatable for a maximum of 16 credit hours). Summer course offerings investigating specialized areas of graphic design, illustration or photography taught primarily by guest faculty.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture, Studio

**Contact Hours:** 7.5-30 lecture, 12.5-45 other

**Grade Mode:** Standard Letter-S/U-IP

**SVCD 65011 SUMMER DESIGN STUDIO 1-4 Credit Hours**  
 (Repeatable for a maximum of 16 credit hours) Summer course offerings investigating specialized areas of graphic design, illustration or photography taught primarily by guest faculty.  
**Prerequisite:** Graduate standing.  
**Schedule Type:** Lecture, Studio  
**Contact Hours:** 7.5-30 lecture, 12.5-45 other  
**Grade Mode:** Standard Letter-S/U-IP

## Visual Communication Design (VCD)

**VCD 13000 DESIGN: PRINCIPLES, PROCESSES AND PRACTICE 3 Credit Hours**

Introduction to the principles, processes and applications of design. Students explore the language of design, how it is influenced by form, content and context. Focus on historical overview, design theory, brainstorming, ideation, two-dimensional design, environmental design, typography, illustration, photography and interactive media.  
**Prerequisite:** None.  
**Schedule Type:** Lecture  
**Contact Hours:** 3 lecture  
**Grade Mode:** Standard Letter

**VCD 13001 INTRODUCTION TO VISUAL COMMUNICATION DESIGN STUDIO 3 Credit Hours**

Introduction to basic design processes using research, writing conceptual problem solving and format organization of two dimensional space utilizing type and imagery.  
**Prerequisite:** Photography major, visual communication design major, or design minor.  
**Schedule Type:** Studio  
**Contact Hours:** 3 other  
**Grade Mode:** Standard Letter

**VCD 14001 VISUAL DESIGN LITERACY 3 Credit Hours**

Examines the topics visual communication design theory, two-dimensional graphic design, environmental graphic design, typography, illustration, photographic illustration, and interactive media. Introduction to how and why professionals in the field of visual communication design create meaning and context through their work. Students explore the language of visual communication, how it is influenced by form, content and context.  
**Prerequisite:** None.  
**Schedule Type:** Lecture  
**Contact Hours:** 3 lecture  
**Grade Mode:** Standard Letter

**VCD 14002 COMMUNICATING WITH COLOR 3 Credit Hours**

Introduction to color as it applies to fields of design and related areas. Topics covered include the vocabulary of color, the primary elements of color theory, color systems, color printing, color in film and online, and the effects of lighting on color. Students gain an appreciation for how color influences design and commerce through an understanding of basic practices of color forecasting and a study of how color perception is influenced by cultural differences.  
**Prerequisite:** None.  
**Schedule Type:** Lecture  
**Contact Hours:** 3 lecture  
**Grade Mode:** Standard Letter

**VCD 17000 COLOR: THEORY AND APPLICATION 3 Credit Hours**  
 Color and its interaction through a series of nonapplied (abstract) exercises.

**Prerequisite:** None.  
**Schedule Type:** Studio  
**Contact Hours:** 3 other  
**Grade Mode:** Standard Letter

**VCD 18002 PHOTOGRAPHY II 3 Credit Hours**

Course further develops basic technical information and introduces studio lighting techniques and protocols. The class is studio-based and introduces and explores gaining command of continuous lighting source (LED), composition, studio practices: The technical information will be supplemented with a series of photographic assignments that apply this information.  
**Prerequisite:** CCI 12001; and visual communication design major or photography major or minor.  
**Schedule Type:** Studio  
**Contact Hours:** 6 other  
**Grade Mode:** Standard Letter

**VCD 20000 BASIC COMPUTER-GRAPHIC DESIGN AND ILLUSTRATION 3 Credit Hours**

Introduction of basic operating system of Macintosh hardware and major design software for creation of layouts, vector and raster graphics. Explore production and peripheral equipment including scanners and printers.  
**Prerequisite:** Visual communication design or photography majors.  
**Schedule Type:** Combined Lecture and Lab  
**Contact Hours:** 2 lecture, 2 lab  
**Grade Mode:** Standard Letter

**VCD 20003 INTERMEDIATE COMPUTER-GRAPHIC DESIGN/ILLUSTRATION 3 Credit Hours**

A technical, studio course designed to teach the fundamentals of Web design in GoLive and Flash. Material is presented throughout a series of demos, exercises and projects.  
**Prerequisite:** VCD 20000.  
**Schedule Type:** Combined Lecture and Lab  
**Contact Hours:** 2 lecture, 2 lab  
**Grade Mode:** Standard Letter

**VCD 20010 INTRODUCTION TO DESIGN RESEARCH 3 Credit Hours**

Introduction to research methods used in the professional practice of visual communication design. Students are exposed to strategies, tactics and frameworks used in the creation of design artifacts.  
**Prerequisite:** VCD 23001; and visual communication design or photography major or information design minor.  
**Schedule Type:** Lecture  
**Contact Hours:** 3 lecture  
**Grade Mode:** Standard Letter

**VCD 20096 PHOTO-ILLUSTRATION SOPHOMORE PORTFOLIO REVIEW 1 Credit Hour**

Visual Communication Design faculty review student portfolios of work from prerequisite courses. A diagnostic examination to evaluate technical proficiency and formal organizational ability also is included in this review.  
**Prerequisite:** VCD 13000 or VCD 14001; and VCD 13001; and VCD 23001; and VCD 18002; and VCD 28003; and photography major.  
**Schedule Type:** Individual Investigation  
**Contact Hours:** 3 other  
**Grade Mode:** Satisfactory/Unsatisfactory-IP

**VCD 20196 VCD SOPHOMORE PORTFOLIO REVIEW 1 Credit Hour**

Projects from Visual Communication Design freshman- and sophomore-level studio courses will comprise a portfolio to be critiqued by VCD faculty. A successful portfolio review will determine if the student is to advance in the BA program or enter the BFA program.

**Prerequisite:** VCD 22000 and VCD 23001 with a minimum C grade; and visual communication design major.

**Corequisite:** VCD 33000 and VCD 22001.

**Schedule Type:** Individual Investigation

**Contact Hours:** 1 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**VCD 21000 INTRODUCTION TO WEB DESIGN 3 Credit Hours**

In this course students will learn basic web design, using HTML (Hypertext Markup Language) and CSS (Cascading Style Sheets). Students are introduced to planning, designing and executing effective web pages, including developing web pages using web standards compliant HTML and CSS; leveraging CSS to style, enhance, organize and prioritize content; working with a wide range of content types and multimedia; and, producing small, functioning, multi-page websites.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**VCD 22000 DESIGN/ILLUSTRATION TECHNIQUES I 3 Credit Hours**

Introductory course in design/illustration. Object drawing with emphasis toward rendering materials and techniques used in reproduction, perspective, spacial organization and use of reference material.

**Prerequisite:** VCD 13000 and VCD 13001 with a minimum B- grade; and visual communication design major or design minor.

**Schedule Type:** Studio

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**VCD 22001 DESIGN/ILLUSTRATION TECHNIQUES II 3 Credit Hours**

Continuation of Design Illustration Techniques I with expanded emphasis on black and white media used for illustration purposes with emphasis on media capable of reproduction by traditional printing methods.

**Prerequisite:** VCD 22000 and 23001; and visual communication design major.

**Schedule Type:** Studio

**Contact Hours:** 6 other

**Grade Mode:** Standard Letter

**VCD 23000 INTERMEDIATE STUDIO SKILLS:GRAPHIC DESIGN AND ILLUSTRATION 3 Credit Hours**

A technical lecture course designed to outline the process and describe and discuss the technologies and vocabulary used in the printing industry.

**Prerequisite:** VCD 23001.

**Schedule Type:** Studio

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**VCD 23001 TYPOGRAPHY I 3 Credit Hours**

Historical study of letter forms and their application to the development of new forms. Execution and use of letter forms as design elements in layout and illustration using fundamental typographic theories and rules of spatial organization.

**Prerequisite:** VCD 13000; and VCD 13001 with a minimum B- grade; and photography major or visual communication design major or design minor.

**Schedule Type:** Studio

**Contact Hours:** 6 other

**Grade Mode:** Standard Letter

**VCD 28003 PHOTO TECHNOLOGY 3 Credit Hours**

Designed to give students an intermediate working knowledge of the digital photographic workflow, including intermediate Photoshop editing skills, overview of Adobe Raw and Bridge, color calibration and color management. Students will complete a series of photographic assignments to which they will apply this information.

**Prerequisite:** CCI 12001; and visual communication design major or photography major or minor.

**Schedule Type:** Studio

**Contact Hours:** 6 other

**Grade Mode:** Standard Letter

**VCD 28004 PHOTOGRAPHIC PERSPECTIVES 3 Credit Hours**

Examines the use of the photographic medium in the context of the commercial marketplace. Discusses the advancement of material processes, provides a comprehensive overview of commercial imagery and market development, examines industry trends, and introduces several theoretical criticisms pertaining to constructed photography.

**Prerequisite:** Photography major or minor or photo journalism major or minor.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**VCD 30008 JUNIOR PORTFOLIO REVIEW - PHOTO-ILLUSTRATION 1 Credit Hour**

Required portfolio review in conference, with the School of Visual Communication Design Faculty, of work completed in VCD 38004 and VCD 38001, Students successfully passing review may continue in the B.S. degree program in Photo Illustration. Students not receiving a passing grade in the review may not continue in the program.

**Prerequisite:** VCD 38004; and photo illustration major.

**Corequisite:** VCD 38001.

**Schedule Type:** Studio

**Contact Hours:** 2 other

**Grade Mode:** Satisfactory/Unsatisfactory

**VCD 30009 JUNIOR PORTFOLIO REVIEW:GRAPHIC DESIGN/ILLUSTRATION 1 Credit Hour**

Required portfolio review in conference, with the school of Visual Communication Design Faculty, of work completed in VCD 32000, 32001, 33000 and 33001. Students successfully passing review may continue in the B.A. degree. To change to the B.F.A. program, students must be nominated by a majority of the VCD faculty. Students not receiving a passing grade in the review may not continue in the program.

**Prerequisite:** VCD 32000 and 33000; and visual communication design major.

**Corequisite:** VCD 32001 and 33001.

**Schedule Type:** Studio

**Contact Hours:** 1 lecture

**Grade Mode:** Satisfactory/Unsatisfactory



**VCD 32000 ILLUSTRATION I 3 Credit Hours**

Continuation of Design Illustration Techniques I and II with emphasis on technique and creative solutions as they apply to specific illustration areas: narrative, editorial, book, advertising and institutional.

**Prerequisite:** VCD 20010 and VCD 22001 and VCD 33000; and visual communication design major.

**Schedule Type:** Studio

**Contact Hours:** 6 other

**Grade Mode:** Standard Letter

**VCD 32001 ILLUSTRATION II 3 Credit Hours**

Illustration as communication: conceptual problem-solving visualizations of ideas utilizing felt tip markers as the medium of expression.

**Prerequisite:** VCD 32000.

**Schedule Type:** Studio

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**VCD 33000 GRAPHIC DESIGN I 3 Credit Hours**

Continuation of Introduction to Graphic Design and Introduction to Typography in the structuring of 2-D communication design utilizing headline, body copy and illustration with the addition of limited conceptual content.

**Prerequisite:** VCD 23001 with a minimum B- grade; and visual communication design major.

**Schedule Type:** Studio

**Contact Hours:** 6 other

**Grade Mode:** Standard Letter

**VCD 33001 GRAPHIC DESIGN II 3 Credit Hours**

Continuation of Graphic Design I, utilizing basic layout with emphasis on concept as applied to problem-solving methodologies through a series of exercises and problems.

**Prerequisite:** VCD 20010 and VCD 22001 and VCD 33000; and visual communication design major.

**Schedule Type:** Studio

**Contact Hours:** 6 other

**Grade Mode:** Standard Letter

**VCD 34004 VISUAL ETHICS 3 Credit Hours**

An extension of the information covered in the course Visual Literacy or Introduction to Visual Communication Design. Topics include the understanding of visual form, responsibility of the designer, photographer, and illustrator and those working in collaboration with visual communicators. Looks at image manipulation, copyright laws and ethical and professional guidelines. Also covered are topics such as sustainable design practices, acting as an advocate of the consumer and audience member. Discussion topics include credibility, dignity and developing a personal philosophy towards visual ethics.

**Prerequisite:** UXD 20001 or VCD 14001 or VCD 13000; and visual communication design major, photography major or user experience design minor or design minor.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**VCD 34005 INTRODUCTION TO 3D GRAPHIC DESIGN 3 Credit Hours**

Continuation of Graphic Design I and Introduction to Typography with application of typography and imagery to 3-D form.

**Prerequisite:** VCD 20010 and VCD 22001 and VCD 33000; and visual communication design major.

**Schedule Type:** Studio

**Contact Hours:** 6 other

**Grade Mode:** Standard Letter

**VCD 34006 MOTION DESIGN 3 Credit Hours**

A studio course designed to teach the fundamentals of motion graphic design. Materials and information are delivered through a series of lectures, demos and hands-on exercises.

**Prerequisite:** UXD 20001, VCD 18002 or VCD 33000; and visual communication design major, photography major or user experience design minor.

**Schedule Type:** Studio

**Contact Hours:** 6 other

**Grade Mode:** Standard Letter

**VCD 37000 VISUAL DESIGN FOR MEDIA: ADVANCED 3 Credit Hours**

A lab course in which students apply design concepts to computer-generated communication pieces using a layout software program. May not be used toward degree requirements by visual communication design majors.

**Prerequisite:** None.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 2 lecture, 1 lab

**Grade Mode:** Standard Letter

**VCD 38001 PHOTOGRAPHICS 3 Credit Hours**

This course explores relationships between photography and typography in communication. Unique solutions are created through the use of created images integrated with vector-based and raster graphics software (primarily Illustrator, InDesign and Photoshop). Students will examine techniques for Design and Typographic styles and work toward integrating these styles with purpose-made imagery.

**Prerequisite:** VCD 13001 and VCD 38004 and CCI 12001.

**Schedule Type:** Studio

**Contact Hours:** 3 lab

**Grade Mode:** Standard Letter

**VCD 38004 ADVANCED PHOTOGRAPHY 3 Credit Hours**

Introduction of professional strobe lighting equipment, materials and techniques along with the development of conceptual abilities and problem solving skills as applied to studio portraiture, still life, and location photography. Special lighting equipment and accessories furnished.

**Prerequisite:** VCD 18002.

**Schedule Type:** Studio

**Contact Hours:** 9 other

**Grade Mode:** Standard Letter

**VCD 38007 PHOTOGRAPHY TECHNIQUES 3 Credit Hours**

Explorations of current influences, innovations and trends in photography. Projects can include interdisciplinary collaborations such as the intersection of photojournalism and commercial photography, Architecture and Photography, etc.

**Prerequisite:** VCD 48005 and VCD 48008; and photography major.

**Schedule Type:** Studio

**Contact Hours:** 6 other

**Grade Mode:** Standard Letter

**VCD 38009 INTERNSHIP SEMINAR - PHOTOGRAPHY 1 Credit Hour**

Students prepare materials such as cover letters, resumes, employment applications and individual portfolios in preparation for interviewing and obtaining an internship and entering the job market in Photography.

**Prerequisite:** VCD 38004 and VCD 48005; and photography major; and sophomore standing.

**Schedule Type:** Seminar

**Contact Hours:** 1 other

**Grade Mode:** Satisfactory/Unsatisfactory

**VCD 38011 EDITORIAL PHOTOGRAPHY 3 Credit Hours**

This course explores and develops the style and protocols unique to editorial photography. Exploring and understanding visual storytelling; research methods and techniques; differences between advertising, fine art and editorial photography. Course will emphasize multiple styles of editorial work including portraiture, environmental, fashion, studio and location assignments. The importance of design along with critical thinking skills in image creation along with discussion of locations, model releases, editing, captioning, etc. will also be covered.

**Prerequisite:** VCD 28003 and VCD 38004; and photography major or visual communication design major.

**Schedule Type:** Studio

**Contact Hours:** 6 other

**Grade Mode:** Standard Letter

**VCD 40025 PROFESSIONAL PORTFOLIO 3 Credit Hours**

(Slashed with VCD 50025) Develop a senior-level professional portfolio through a selection and refinement of previously completed classroom work. Development of projects in areas of deficiency with emphasis on organization and presentation.

**Prerequisite:** Visual communication design major; and special approval.

**Schedule Type:** Studio

**Contact Hours:** 6 other

**Grade Mode:** Satisfactory/Unsatisfactory

**VCD 40035 PROFESSIONAL PORTFOLIO BFA DESIGN 3 Credit Hours**

Develop a professional portfolio in design and or illustration through selection and refinement of previously completed classroom work and development of projects in areas of deficiency, with emphasis on organization and presentation. Organization and participation in gallery show at the semester's conclusion.

**Prerequisite:** Visual communication design major within the bachelor of fine arts (BFA); and special approval.

**Schedule Type:** Studio

**Contact Hours:** 6 other

**Grade Mode:** Satisfactory/Unsatisfactory

**VCD 40052 GRAPHIC DESIGN-TRAVEL AND FIELD EXPERIENCE 1-6 Credit Hours**

Development of awareness and understanding in the practical application of graphic design and communication through directed field trip experience.

**Prerequisite:** None.

**Schedule Type:** Studio

**Contact Hours:** 2-12 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**VCD 40053 GRAPHIC DESIGN STUDIO-GLYPHIX 1-8 Credit Hours**

(Repeatable for a maximum of 24 credit hours) Professional experience through an internal design studio. Involves responsibilities and procedures for the production of communication materials for off-campus clients including nonprofit organizations, charities, arts groups and selected on-campus groups and departments.

**Prerequisite:** None.

**Schedule Type:** Studio

**Contact Hours:** 1-8 other

**Grade Mode:** Standard Letter

**VCD 40092 INTERNSHIP I-GRAPHIC DESIGN/ILLUSTRATION (ELR) 1 Credit Hour**

(Repeatable for credit)Preparation for experience in design studio, agency or company involving design responsibilities and procedures to broaden a student's understanding of the profession through real job situations.

**Prerequisite:** None.

**Schedule Type:** Practical Experience

**Contact Hours:** 1 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**Attributes:** Experiential Learning Requirement

**VCD 40095 SPECIAL TOPICS:GRAPHIC DESIGN/ILLUSTRATION 3 Credit Hours**

(Repeatable for a maximum of 9 credit hours)To broaden the course offerings into specialized areas of study in graphic design and illustration taught by experts in the profession as guest faculty. Primarily used to fulfill electives in graphic design or illustration.

**Prerequisite:** Special approval.

**Schedule Type:** Studio

**Contact Hours:** 5 other

**Grade Mode:** Standard Letter-IP

**VCD 40096 INDIVIDUAL INVESTIGATION IN GRAPHIC DESIGN AND ILLUSTRATION 1-8 Credit Hours**

(Repeatable for a maximum of 16 credit hours)Individual study related to topics of graphic design and illustration approved by and under the direction of a faculty member.

**Prerequisite:** None.

**Schedule Type:** Individual Investigation

**Contact Hours:** 1-8 other

**Grade Mode:** Standard Letter-IP

**VCD 40192 INTERNSHIP II-GRAPHIC DESIGN/ILLUSTRATION/ PHOTOGRAPHY (ELR) 1-3 Credit Hours**

(Repeatable for credit) Three credit hours required. Experience in a design, illustration or photography studio, agency or company with responsibilities and to broaden a student's understanding of the profession through a real job situation.

**Prerequisite:** VCD 40092 or VCD 38009.

**Schedule Type:** Practical Experience

**Contact Hours:** 3-9 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**Attributes:** Experiential Learning Requirement

**VCD 40193 VARIABLE TITLE WORKSHOP IN VISUAL COMMUNICATION DESIGN 1-3 Credit Hours**

(Repeatable for credit)Workshop setting dealing with intensive examination of special topics in VCD.

**Prerequisite:** None.

**Schedule Type:** Workshop

**Contact Hours:** 1-3 other

**Grade Mode:** Satisfactory/Unsatisfactory

**VCD 40195 SELECTED TOPICS:GRAPHIC DESIGN/ILLUSTRATION 1-4 Credit Hours**

(Repeatable for credit)Variable topics related to graphic design and illustration.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 1-4 lecture

**Grade Mode:** Standard Letter-IP

**VCD 42000 ADVANCED ILLUSTRATION: MEDIA 3 Credit Hours**

(Slashed with VCD 52000) Discussions and practice of media and grounds as they pertain to the illustration field. Discussion also centers around the problems in developing work for reproduction.

**Prerequisite:** VCD 22000, VCD 22001 and VCD 32000; and bachelor of fine arts (BFA) or bachelor of arts (BA) in visual communication design major.

**Schedule Type:** Studio

**Contact Hours:** 6 other

**Grade Mode:** Standard Letter

**VCD 42002 EDITORIAL ILLUSTRATION 3 Credit Hours**

(Slashed with VCD 52002) Exploration and discussion of various illustration techniques and their application in the publishing field. Emphasis is placed on client needs, concept and intended audience.

**Prerequisite:** VCD 22000, VCD 22001; and bachelor of fine arts (BFA) or bachelor of arts (BA) in visual communication design major.

**Schedule Type:** Studio

**Contact Hours:** 6 other

**Grade Mode:** Standard Letter

**VCD 42003 ADVERTISING ILLUSTRATION 3 Credit Hours**

(Slashed with VCD 42003) Exploration and discussion of various illustration techniques and their application in advertising. Emphasis is placed on client need, concept of solution and intended audience.

**Prerequisite:** VCD 22000 and VCD 22001; and bachelor of fine arts (BFA) or bachelor of arts (BA) in visual communication design (VCD) major.

**Schedule Type:** Studio

**Contact Hours:** 6 other

**Grade Mode:** Standard Letter

**VCD 42005 CHARACTER DEVELOPMENT AND DESIGN: THE HUMAN FIGURE 3 Credit Hours**

(Slashed with VCD 52005) Focuses on the application of the fundamental design principles and mechanics used when designing characters for film animation, television animation, computer animation, video games, comic strips, comic books, advertising, editorial illustration and book illustration.

**Prerequisite:** VCD 22000 and VCD 22001.

**Schedule Type:** Studio

**Contact Hours:** 6 other

**Grade Mode:** Standard Letter

**VCD 42006 CHARACTER DEVELOPMENT AND DESIGN: ANIMALS AND ENVIRONMENTS 3 Credit Hours**

(Slashed with VCD 52006) This course focuses on the application of fundamental design principles and mechanics used when designing characters for film animation, television animation, computer animation, video games, comic strips, comic books, book illustration, advertising, and editorial illustration.

**Prerequisite:** VCD 22000, VCD 22001 and bachelor of fine arts (BFA) or bachelor of arts (BA) in visual communication design major.

**Schedule Type:** Studio

**Contact Hours:** 6 other

**Grade Mode:** Standard Letter

**VCD 42007 GRAPHIC NARRATIVE 3 Credit Hours**

(Slashed with VCD 52007) This course fuses written and visual content, allowing students to both author and illustrate visual narratives. Through readings, various genres of written form are explored and both historical and emerging narrative formats within the field of illustration are emphasized.

**Prerequisite:** VCD 22000 and VCD 22001.

**Schedule Type:** Studio

**Contact Hours:** 6 other

**Grade Mode:** Standard Letter

**VCD 43000 STUDIO PRODUCTION 3 Credit Hours**

A technical lecture course designed to teach the fundamental techniques and processes of electronic prepress and printing production. Material is presented through lectures, demos, tests and field trips.

**Prerequisite:** Visual communication design major; and junior standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**VCD 43001 INTERACTION DESIGN I 3 Credit Hours**

(Slashed with VCD 53001) The conceptualization and prototyping of interactive experiences. Prerequisite: VCD 34006

**Schedule Type:** Studio

**Contact Hours:** 6 other

**Grade Mode:** Standard Letter

**VCD 43002 TYPOGRAPHY II 3 Credit Hours**

(Slashed with VCD 53002) The use of typography (rather than visual imagery) as the primary design form in solving graphic design communication problems.

**Prerequisite:** VCD 13000, VCD 13001, VCD 23001, VCD 33000 and VCD 33001; and bachelor of fine arts (BFA) or bachelor of arts (BA) in visual communication design (VCD) major.

**Schedule Type:** Studio

**Contact Hours:** 6 other

**Grade Mode:** Standard Letter

**VCD 43003 IDENTITY SYSTEMS 3 Credit Hours**

Use of graphic design forms (typography, photography and illustration) in the development of identity systems.

**Prerequisite:** VCD 13000, VCD 13001, VCD 23001 and VCD 33000; and bachelor of fine arts (BFA) or bachelor of arts (BA) visual communication design (VCD).

**Schedule Type:** Studio

**Contact Hours:** 6 other

**Grade Mode:** Standard Letter

**VCD 43004 PROFESSIONAL COMMUNICATION FOR DESIGN 3 Credit Hours**

(Slashed with VCD 53004) Designed to familiarize students with the basic business, marketing, legal and ethical standards in the graphic design industry.

**Prerequisite:** Junior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**VCD 43005 PACKAGING, PROMOTION AND RETAIL ENVIRONMENTS 3 Credit Hours**

Use of typography and visual images, photography and illustrations in the structure of information for communication on 3D surfaces: direct mail, packaging and point of purchase display.

**Prerequisite:** VCD 13000, VCD 13001, VCD 22000, VCD 22001, VCD 23001, VCD 33000, VCD 33001 and VCD 34005; and visual communication design major.

**Schedule Type:** Studio

**Contact Hours:** 6 other

**Grade Mode:** Standard Letter

**VCD 43006 ENVIRONMENTAL GRAPHIC DESIGN 3 Credit Hours**

Aims at coordinating architectural planning, interior design systems analysis and graphic communications.

**Prerequisite:** None.

**Schedule Type:** Studio

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**VCD 43007 INFORMATION GRAPHICS 3 Credit Hours**

Introduction to shapes, color type and combinations of these for computer-designed news graphics; maps, charts, graphs and diagrams.

**Prerequisite:** JMC 20004 and VCD 13001.

**Schedule Type:** Laboratory, Lecture

**Contact Hours:** 3 lecture, 2 lab

**Grade Mode:** Standard Letter

**VCD 43008 BRANDED IDENTITY 3 Credit Hours**

The examination and development of graphic design forms as they pertain to corporate branding. Related methods of visual communication explored through studio.

**Prerequisite:** VCD 13000, 13001, 22000, 23001; and bachelor of arts (BA) in the visual communication design major.

**Schedule Type:** Studio

**Contact Hours:** 6 other

**Grade Mode:** Standard Letter

**VCD 43051 TYPE HIGH PRESS 3 Credit Hours**

Students will explore aspects of letterpress printing. Course content will include typesetting, printing basics, and a brief history of movable type printing and typography. Students will work on a series of projects to acclimate themselves to the equipment and various printing techniques.

**Prerequisite:** VCD 13000, 13001, 22000, 23001 and VCD 33000; and visual communication design major.

**Schedule Type:** Studio

**Contact Hours:** 6 other

**Grade Mode:** Standard Letter

**VCD 43060 INTRODUCTION TO TYPEFACE DESIGN 3 Credit Hours**

(Slashed with VCD 53060) This course will serve as an introduction to the core principles of typeface design. It is a fast paced and challenging course with a requirement for a high level of engagement and research on the part of the student. Building on skills learned in other VCD classes, this is an advanced level course dealing with the underlying themes in typeface design and their relationship to the typographer's needs.

**Prerequisite:** Visual communication design major within the bachelor of fine arts; and junior or senior standing.

**Schedule Type:** Studio

**Contact Hours:** 6 other

**Grade Mode:** Standard Letter

**VCD 43101 INTERACTION DESIGN II 3 Credit Hours**

(Slashed with VCD 53101) Students will continue their study of interaction design by working on two projects and two exercises. They will work to develop the content, to compile user research, structure the information architecture, design the interface and prototype their concepts. Students are encouraged to focus on a specific context and audience while demonstrating its use in a final prototype that represents a pathway of experience. Students will focus on the designer's role in the development of interactive spaces and communities, as well as the interdisciplinary exchange with other professionals (computer programmers, software developers, and marketing professionals). We will study human-computer interaction and focus on the needs of the user to create the best user experience. When possible, students will work on real-world projects that allow for collaboration with programmers and developers.

**Prerequisite:** VCD 43001.

**Schedule Type:** Studio

**Contact Hours:** 6 other

**Grade Mode:** Standard Letter

**VCD 44001 EXHIBITION DESIGN 3 Credit Hours**

The study of content, narrative development, consideration of space, and the use of materials and media in environmental and exhibition design. Includes working in scale, 2D and 3D rendering, physical and digital modeling.

**Prerequisite:** VCD 34005; and special approval.

**Schedule Type:** Studio

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**VCD 45000 GRAPHIC DESIGN PERSPECTIVES (WIC) 3 Credit Hours**

Comprehensive exploration of design through history. Topics include the early alphabet, print processes, illustration, photography, corporate design, modern design and digital processes.

**Prerequisite:** ENG 21011 or HONR 10297; and junior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Writing Intensive Course

**VCD 46000 WEB DESIGN AND PROGRAMMING I 3 Credit Hours**

(Slashed with VCD 56000) Course focus is on Web concepts and high-quality Web design; CS and VCD principles, tools, architecture, presentation, design and creation of websites through teamwork. Course is jointly taught by Computer Science and Visual Communication Design.

**Prerequisite:** CS 10051 and VCD 13001.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter-IP

**VCD 46001 WEB DESIGN AND PROGRAMMING II 3 Credit Hours**

(Slashed with VCD 56001) An elective course jointly taught by computer science and VCD on advanced web technologies and multimedia web design: web servers, security, advanced design, java servlets, applets, database connectivity, site maintenance, relation of actual websites by teamwork.

**Prerequisite:** VCD 46000.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter-IP



**VCD 46003 TYPOGRAPHY III 3 Credit Hours**

(Slashed with VCD 56003) Applying typographic rules in advanced projects. Organizing large amounts of text in complex architectures and designing viewer controlled space. Exploration of dynamic information sound and motion sequences. Prerequisite: VCD 43002

**Schedule Type:** Studio

**Contact Hours:** 6 other

**Grade Mode:** Standard Letter-IP

**VCD 48001 PHOTOGRAPHIC PROJECT 3 Credit Hours**

Provides students the opportunity to conceptualize, organize and produce a semester-long photographic project of their choice under the supervision of the course instructor. Projects will augment students' existing photographic portfolios.

**Prerequisite:** Photography major; and special approval.

**Schedule Type:** Studio

**Contact Hours:** 6 other

**Grade Mode:** Standard Letter

**VCD 48002 ADVANCED PHOTOGRAPHIC PROJECT 3 Credit Hours**

Continuation of VCD 48001. Each student will conceptualize, organize and produce a semester-long photographic project of their choice under the supervision of the course instructor. Projects will augment students' existing photographic portfolios.

**Prerequisite:** VCD 48001.

**Schedule Type:** Studio

**Contact Hours:** 6 other

**Grade Mode:** Standard Letter

**VCD 48003 PROFESSIONAL PORTFOLIO PHOTOGRAPHY 3 Credit Hours**

Students will create personal, professional portfolios (electronic and hard copy) developed through branding and identity explorations. Each portfolio will be a blend of the student's best work and career path desires and expressed through sophisticated grinding and design principles. Students will also develop and hang an exhibition of their student work in the Taylor Hall art gallery.

**Prerequisite:** Photography major; and special approval.

**Schedule Type:** Studio

**Contact Hours:** 6 other

**Grade Mode:** Satisfactory/Unsatisfactory

**VCD 48005 COLOR PHOTOGRAPHY 3 Credit Hours**

The depth of Color Photography is explored through a range of lectures, assignments, and critiques. Topics include: Color Theory, Psychology, Cultural Influences and Relationships. Also color perception, color models and gamut, digital color correction, color management.

Management and control of output in printing is studied in-depth throughout the semester. All the above will be explored through both lectures and photographic assignments.

**Prerequisite:** VCD 28003 and VCD 38004; and photography or visual communication design major.

**Schedule Type:** Studio

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**VCD 48008 ADVANCED DIGITAL IMAGING 3 Credit Hours**

This course emphasizes advanced techniques in the use of image editing software to develop workflow techniques and post-production and editing skills. Technical information will be supplemented with a series of photographic assignments that explore advanced application and usage of tools and skills covered as well as new Additional explorations into current digital technologies such as virtual reality, CGi generated imagery and compositing with made photography, Advanced compositing of multiple shoots into cohesive wholes, etc. Software used includes Photoshop, Lightroom, and Capture One Pro.

**Prerequisite:** VCD 38004 and VCD 28003; and photography major or minor or visual communication design major.

**Schedule Type:** Studio

**Contact Hours:** 6 other

**Grade Mode:** Standard Letter

**VCD 48009 FASHION PHOTOGRAPHY 3 Credit Hours**

Emphasis on editorial and advertising fashion photography. Students will explore: Fashion shoot protocols and techniques; Studio and Location Lighting Techniques, History and Theory of Fashion Photography, Fashion Shoot management. In partial collaboration with Fashion School BFA students along with live models on both studio and location shoots. The technical information will be supplemented with a series of photographic project assignments both in studio and on location.

**Prerequisite:** VCD 28003 and VCD 38004; and photography or visual communication design major.

**Schedule Type:** Studio

**Contact Hours:** 1 lecture, 4 other

**Grade Mode:** Standard Letter

**VCD 48092 PRACTICUM IN PHOTOGRAPHY (ELR) 1-3 Credit Hours**

(Repeatable for a total of 10 hours) Individual or group investigation into student selected areas of photographic field.

**Prerequisite:** Photography or visual communication design major; and junior and senior standing.

**Schedule Type:** Practical Experience

**Contact Hours:** 7-21 other

**Grade Mode:** Standard Letter

**Attributes:** Experiential Learning Requirement

**VCD 49198 SENIOR RESEARCH PAPER:GRAPHIC DESIGN/ ILLUSTRATION (ELR) (WIC) 2 Credit Hours**

Written documentation of a senior project in graphic design or illustration. If VCD 49199 Senior Project Graphic Design/Illustration is chosen, it must be taken concurrently with Senior Research paper and presented for final review by a faculty committee.

**Prerequisite:** Senior standing.

**Schedule Type:** Research

**Contact Hours:** 2 other

**Grade Mode:** Standard Letter-IP

**Attributes:** Experiential Learning Requirement, Writing Intensive Course

**VCD 49199 CAPSTONE PROJECT (ELR) 3 Credit Hours**

A capstone project in design, illustration, or photography structured by the student (with approval by faculty), culminating in a final presentation or exhibit.

**Prerequisite:** Photography major or Visual Communication Design major; and senior standing; and special approval.

**Schedule Type:** Project or Capstone, Studio

**Contact Hours:** 6 other

**Grade Mode:** Standard Letter-IP

**Attributes:** Experiential Learning Requirement



**VCD 50000 BASIC COMPUTER GRAPHIC DESIGN/ILLUSTRATION 2 Credit Hours**

An introduction to the use of the computer as a tool in graphic design and illustration. Exploration of the relationship and integration of various hardware configurations and software solutions to meet the demands of today's designers and illustrators.

**Prerequisite:** Graduate standing.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 2 other

**Grade Mode:** Standard Letter-IP

**VCD 50003 INTERMEDIATE COMPUTER DESIGN-GD I VARIOUS SOFTWARE 3 Credit Hours**

Addresses the issues of page layout and design, digital manipulation and vector graphic illustration for graphic design professionals.

**Prerequisite:** Visual communication design majors; and graduate standing.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 2 lecture, 2 lab

**Grade Mode:** Standard Letter

**VCD 50025 PROFESSIONAL PORTFOLIO 3 Credit Hours**

(Slashed with VCD 40025) Develop a professional portfolio through selection and refinement of previously completed classroom work development of projects in areas of deficiency with emphasis on organization and presentation.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Studio

**Contact Hours:** 6 other

**Grade Mode:** Satisfactory/Unsatisfactory

**VCD 50052 GRAPHIC DESIGN-TRAVEL AND FIELD EXPERIENCE 1-6 Credit Hours**

(Repeatable for credit) Development of awareness and understanding in the practical application of graphic design and communication through directed field trip experience. Repeatable for a total of 16 credit hours.

**Prerequisite:** Graduate standing.

**Schedule Type:** Studio

**Contact Hours:** 1-6 other

**Grade Mode:** Standard Letter

**VCD 50053 GRAPHIC DESIGN STUDIO-GLYPHIX 1-6 Credit Hours**

(Repeatable for a maximum of 12 credit hours) Professional experience through an internal design studio. Involves responsibilities and procedures for the production of communication materials for off campus clients including non-profit organizations charities arts groups and selected on campus groups and departments.

**Prerequisite:** Graduate standing.

**Schedule Type:** Studio

**Contact Hours:** 1-6 other

**Grade Mode:** Standard Letter-IP

**VCD 50092 INTERNSHIP-GRAPHIC DESIGN AND ILLUSTRATION 1-6 Credit Hours**

(Repeatable for credit) Experience in design studio, agency or company involving design responsibilities and procedures to broaden a student's understanding of the profession through a real job situation.

**Prerequisite:** Graduate standing.

**Schedule Type:** Practical Experience

**Contact Hours:** 1-6 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**VCD 50095 SPECIAL TOPICS IN GRAPHIC DESIGN/ILLUSTRATION 3 Credit Hours**

(Repeatable for a maximum of 9 credit hours) To broaden the course offerings into specialized areas of study in graphic design and illustration taught by experts in the profession as a guest faculty. Primarily used to fulfill electives in graphic design or illustration.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Studio

**Contact Hours:** 5 other

**Grade Mode:** Standard Letter-IP

**VCD 50193 VARIABLE TITLE WORKSHOP IN VCD 1-3 Credit Hours**

(Repeatable for credit) Workshop setting dealing with intensive examination of special topics in VCD.

**Prerequisite:** Graduate standing.

**Schedule Type:** Workshop

**Contact Hours:** 1-3 other

**Grade Mode:** Satisfactory/Unsatisfactory

**VCD 50195 SELECTED TOPICS GRAPHIC DESIGN AND ILLUSTRATION 1-4 Credit Hours**

(Repeatable for credit) Variable topics related to graphic design and illustration.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 1-4 lecture

**Grade Mode:** Standard Letter

**VCD 52000 ADVANCED ILLUSTRATION/MEDIA 3 Credit Hours**

Discussions and practice of media and grounds as they pertain to the illustration field. Discussion will also center around the problems in developing work of reproduction.

**Prerequisite:** Visual communication design major; and graduate standing.

**Schedule Type:** Studio

**Contact Hours:** 5 other

**Grade Mode:** Standard Letter

**VCD 52002 EDITORIAL ILLUSTRATION 3 Credit Hours**

Exploration and discussion of various illustration techniques and their application in the publishing field. Emphasis is placed on client needs, concept and intended audience.

**Prerequisite:** Visual communication design major; and graduate standing.

**Schedule Type:** Studio

**Contact Hours:** 5 other

**Grade Mode:** Standard Letter

**VCD 52003 ADVERTISING ILLUSTRATION 3 Credit Hours**

Exploration and discussion of various illustration techniques and their application in advertising. Emphasis is placed on client need, concept of solution and intended audience.

**Prerequisite:** Visual communication design major; and graduate standing.

**Schedule Type:** Studio

**Contact Hours:** 5 other

**Grade Mode:** Standard Letter

**VCD 52005 CHARACTER DEVELOPMENT AND DESIGN 3 Credit Hours**

(Slashed with VCD 42005) Focuses on the application of the fundamental design principles and mechanics used when designing characters for film animation, television animation, computer animation, video games, comic strips, comic books, advertising, editorial illustration and book illustration. Students must demonstrate proficiency in drawing to register for this course.

**Prerequisite:** Graduate standing.

**Schedule Type:** Studio

**Contact Hours:** 6 other

**Grade Mode:** Standard Letter

**VCD 52006 CHARACTER DEVELOPMENT AND DESIGN: ANIMALS AND ENVIRONMENTS 3 Credit Hours**

(Slashed with VCD 42006) This course focuses on the application of fundamental design principles and mechanics used when designing characters for film animation, television animation, computer animation, video games, comic strips, comic books, book illustration, advertising, and editorial illustration.

**Prerequisite:** Master of fine arts (MFA) or master of arts (MA) in visual communication design major; and graduate standing.

**Schedule Type:** Studio

**Contact Hours:** 6 other

**Grade Mode:** Standard Letter

**VCD 52007 GRAPHIC NARRATIVE 3 Credit Hours**

(Slashed with VCD 42007) This course fuses written and visual content, allowing students to both author and illustrate visual narratives. Through readings, various genres of written form are explored and both historical and emerging narrative formats within the field of illustration are emphasized.

**Prerequisite:** Master of fine arts (MFA) or master of arts (MA) in visual communication design (VCD); and graduate standing.

**Schedule Type:** Studio

**Contact Hours:** 6 other

**Grade Mode:** Standard Letter

**VCD 53000 STUDIO PRODUCTION 3 Credit Hours**

A technical lecture course designed to teach the fundamental techniques and processes of electronic prepress and printing production. This material is presented through a series of lectures, demos, written tests and field trips.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**VCD 53001 INTERACTION DESIGN I 3 Credit Hours**

(Slashed with VCD 43001) The conceptualization and prototyping of interactive experiences.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Studio

**Contact Hours:** 6 other

**Grade Mode:** Standard Letter

**VCD 53002 TYPOGRAPHY II 3 Credit Hours**

(Slashed with VCD 43002) The use of typography (rather than visual imagery) as the primary design form in solving graphic communication problems.

**Prerequisite:** Visual communication design major; and graduate standing.

**Schedule Type:** Studio

**Contact Hours:** 6 other

**Grade Mode:** Standard Letter

**VCD 53003 IDENTITY SYSTEMS 3 Credit Hours**

(Slashed with VCD 43003) Use of graphic design forms (typography, photography and illustration) in the development of corporate identification for total advertising programs.

**Prerequisite:** Visual communication design major; and graduate standing.

**Schedule Type:** Studio

**Contact Hours:** 6 other

**Grade Mode:** Standard Letter

**VCD 53004 PROFESSIONAL COMMUNICATION FOR DESIGN 3 Credit Hours**

(Slashed with VCD 43004) Designed to familiarize students with the basic business, marketing, legal and ethical standards in the graphic design industry.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**VCD 53005 PACKAGING, PROMOTION AND RETAIL ENVIRONMENTS 3 Credit Hours**

(Slashed with VCD 43005) Use of typography and visual images, photography and illustrations, in the structure of information for communication on 3D surfaces: direct mail, packaging and point of purchase display.

**Prerequisite:** Visual communication design major; and graduate standing; and special approval.

**Schedule Type:** Studio

**Contact Hours:** 6 other

**Grade Mode:** Standard Letter

**VCD 53006 ENVIRONMENTAL GRAPHIC DESIGN 3 Credit Hours**

Aims at coordinating architectural planning, interior design systems analysis and graphic communications. Also includes and individually directed research component.

**Prerequisite:** Graduate standing.

**Schedule Type:** Studio

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**VCD 53007 INFORMATION GRAPHICS 2 Credit Hours**

Introduction to shapes, color, type and combinations of these for computer- designed news graphics; maps, charts, graphs and diagrams.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**VCD 53051 TYPE HIGH PRESS 3 Credit Hours**

(Repeatable for a maximum of 12 credit hours) Students will explore aspects of letterpress printing. Course content will include typesetting, printing basics, and a brief history of movable type printing and typography. Students will work on a series of projects to acclimate themselves to the equipment and various printing techniques.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Studio

**Contact Hours:** 5 other

**Grade Mode:** Standard Letter

**VCD 53060 INTRODUCTION TO TYPEFACE DESIGN 3 Credit Hours**

(Slashed with VCD 43060) This course will serve as an introduction to the core principles of typeface design. It is a fast paced and challenging course with a requirement for a high level of engagement and research on the part of the student. Building on skills learned in other VCD classes, this is an advanced level course dealing with the underlying themes in typeface design and their relationship to the typographer's needs.

**Prerequisite:** Visual communication design major; and graduate standing.

**Schedule Type:** Studio

**Contact Hours:** 6 other

**Grade Mode:** Standard Letter

**VCD 53101 INTERACTION DESIGN II 3 Credit Hours**

(Slashed with VCD 43101) Students will be continue their study of interaction design by working on two projects and two exercises. They will work to develop the content, to compile user research, structure the information architecture, design the interface and prototype their concepts. Students are encouraged to focus on a specific context and audience while demonstrating its use in a final prototype that represents a pathway of experience. Students will focus on the designer's role in the development of interactive spaces and communities, as well as the interdisciplinary exchange with other professionals (computer programmers, software developers, and marketing professionals). We will study human-computer interaction and focus on the needs of the user to create the best user experience. When possible, students will work on real-world projects that allow for collaboration with programmers and developers

**Prerequisite:** Graduate standing.

**Schedule Type:** Studio

**Contact Hours:** 6 other

**Grade Mode:** Standard Letter

**VCD 55000 GRAPHIC DESIGN PERSPECTIVES 3 Credit Hours**

Comprehensive exploration of design through history. Topics include the early alphabet, print processes, illustration, photography, corporate design, modern design and digital processes.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**VCD 56000 WEB DESIGN AND PROGRAMMING I 3 Credit Hours**

(Slashed with VCD 46000) Course focus is on web concepts and high quality web design; CS and VCD principles, tools, architecture, presentation, design and creation of websites through teamwork. Course is jointly taught by CS and VCD.

**Prerequisite:** Visual communication design major; and graduate standing.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 2 lecture, 2 lab

**Grade Mode:** Standard Letter-IP

**VCD 56001 WEB DESIGN AND PROGRAMMING II 3 Credit Hours**

(Slashed with VCD 46001) Advanced course in web technologies and multimedia web design: web servers, security, advanced design, java servlets, applets, database connectivity, site maintenance, relation of actual websites by teamwork. Course is jointly taught by CS and VCD.

**Prerequisite:** Visual communication design major; and graduate standing.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 2 lecture, 2 lab

**Grade Mode:** Standard Letter-IP

**VCD 56003 TYPOGRAPHY III 3 Credit Hours**

(Slashed with VCD 46003) Applying typographic rules in advanced projects. Organizing large amounts of text in complex architectures and designing viewer controlled space. Exploration of dynamic information sound and motion sequences.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Studio

**Contact Hours:** 6 other

**Grade Mode:** Standard Letter

**VCD 60009 CANDIDACY REVIEW/GRAPHIC DESIGN AND ILLUSTRATION 1 Credit Hour**

A formal review of the work completed in the first 12 semester credit hours of graphic design and/or illustration courses for both M.F.A. and M.A.

**Prerequisite:** Graduate standing.

**Schedule Type:** Individual Investigation

**Contact Hours:** 1 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**VCD 60010 DESIGN RESEARCH METHODS 3 Credit Hours**

Introductory course to the design research methods employed in the professional practice of visual communication design. Students will gain an understanding of research strategies, tactics and tools, and will apply their use through a combination of readings, videos, online discussion and a final cumulative project. Focus will be directed on the design process, research and ideation skills, and understanding research methods in the context of today's design profession.

**Prerequisite:** Visual communication design major; and graduate standing.

**Schedule Type:** Seminar

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**VCD 60011 TYPOGRAPHIC STRUCTURES AND SYSTEMS 3 Credit Hours**

Serves as an intensive introduction to typography and its application in visual communication design. Students will learn to create successful typographic compositions by controlling hierarchy, contrast, space, and grids. The course also covers the organization of information, and facilitates discussion and creative work on the effects of type choice and style in communication. Students will be familiarized with typography for print and screen-based environments.

**Prerequisite:** Visual communication design major; and graduate standing.

**Schedule Type:** Studio

**Contact Hours:** 6 other

**Grade Mode:** Standard Letter

**VCD 60012 CONCEPT DEVELOPMENT AND IMPLEMENTATION 3 Credit Hours**

Serves as an intensive introduction to conceptual development and how it is implemented with form in visual communication design.

**Prerequisite:** VCD 60011; and visual communication design major; and graduate standing.

**Schedule Type:** Studio

**Contact Hours:** 6 other

**Grade Mode:** Standard Letter

**VCD 60013 GRAPHIC DESIGN ADVANCED 3 Credit Hours**

Builds on typography and concept development. Students will gain experience combining layout, concept and problem-solving methodologies through a series of exercises and problems. Projects facilitate the student's ability to employ narrative and storytelling methods, along with design research, analysis, documentation and implementation. The structure of this course is designed to foster self-initiative. Exercises will be completed outside class time and students will be given a great amount of flexibility as they frame projects and decipher solutions to problems.

**Prerequisite:** VCD 60010; and VCD 60011; and VCD 60012; and visual communication design major; and graduate standing.

**Schedule Type:** Studio

**Contact Hours:** 6 other

**Grade Mode:** Standard Letter

**VCD 60020 GRADUATE STUDIO IN VISUAL COMMUNICATION DESIGN 3 Credit Hours**

(Repeatable for a maximum of 6 credit hours) Research based, hands-on studio course providing a context for collaborative and individual projects in design, illustration and/or photography.

**Prerequisite:** Visual communication design major; and graduate standing.

**Schedule Type:** Studio

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter-IP

**VCD 60091 GRADUATE SEMINAR IN VISUAL COMMUNICATION DESIGN 3 Credit Hours**

(Repeatable for credit) Focuses on design theory and research methodologies pertaining to design. Content consists mostly of readings, discussions and student presentations.

**Prerequisite:** Visual communication design major; and graduate standing.

**Schedule Type:** Seminar

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter-IP

**VCD 60094 COLLEGE TEACHING IN VISUAL COMMUNICATION DESIGN 3 Credit Hours**

For VCD student teaching or who anticipate teaching in higher education. This experience also supports future careers in management, art direction and instructional roles in industry. Discussions include grading, critiques, classroom management and evaluation techniques.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**VCD 60095 SPECIAL TOPICS IN GRAPHIC DESIGN/ILLUSTRATION 1-4 Credit Hours**

(Repeatable for a maximum of 16 credit hours) To broaden course offerings into specialized areas of study in graphic design and illustration taught by experts in the profession as guest faculty. Used to fulfill primary studio requirements in graphic design and or illustration.

**Prerequisite:** Graduate standing.

**Schedule Type:** Studio

**Contact Hours:** 1-4 other

**Grade Mode:** Standard Letter-IP

**VCD 60096 INDIVIDUAL INVESTIGATION IN GRAPHIC DESIGN AND ILLUSTRATION 1-16 Credit Hours**

(Repeatable for credit) Individual investigation related to topics of graphic design and illustration approved and under the direction of a faculty member.

**Prerequisite:** Graduate standing.

**Schedule Type:** Individual Investigation

**Contact Hours:** 1-16 other

**Grade Mode:** Standard Letter-IP

**VCD 60098 RESEARCH 1-15 Credit Hours**

(Repeatable for credit) Independent research under the direction of a faculty member in the division of design/illustration.

**Prerequisite:** Graduate standing.

**Schedule Type:** Research

**Contact Hours:** 1-15 other

**Grade Mode:** Standard Letter

**VCD 60099 M.A. PROJECT GRAPHIC DESIGN AND ILLUSTRATION 4 Credit Hours**

A research project for non-thesis option M.A. students approved in consultation with the faculty adviser which culminates in a visual project exhibition and formal presentations.

**Prerequisite:** Graduate standing.

**Schedule Type:** Research

**Contact Hours:** 4 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**VCD 60120 USER EXPERIENCE DESIGN PRINCIPLES AND CONCEPTS 3 Credit Hours**

Students explore the context in which User Experience Design exists and the various methods employed by designers in various fields related to design research, the generation of ideas, and implementation of designs. Students are introduced to methods of design evaluation and to the conceptual framework of the related curricula.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**VCD 60121 USER EXPERIENCE DESIGN IN PRACTICE 3 Credit Hours**

Students learn and employ methods for engaging in creative problem solving. Introduce students to design research methods and current research on human behavior as it applies to user experience design. A core set of design deliverables are examined. Students begin to develop individual portfolio materials.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**VCD 60171 CRITICAL PRACTICES IN DESIGN RESEARCH 3 Credit Hours**

(Repeatable for credit) (Slashed with VCD 80171) This graduate seminar course introduces methods for integrating critical practices into larger communication design research agendas. The term "critical practices" includes three areas of design-centered inquiry: critical design, critical making, and design authorship.

**Prerequisite:** Master of fine arts (MFA) or master of arts (MA) in visual communication design major; and graduate standing.

**Schedule Type:** Seminar

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter



**VCD 60191 ADVANCED RESEARCH 3 Credit Hours**

Serves as the research intensive continuation of VCD 60091 Graduate Seminar. Students will focus on the development of their MFA thesis proposals by identifying a topic, investigating relevant literature and media, developing a thesis statement, and writing the full thesis proposal. Deliverables include a finished MFA thesis proposal, research schedule, and corresponding logic model.

**Prerequisite:** VCD 60091 and VCD 60094; and visual communication design major; and graduate standing.

**Schedule Type:** Seminar

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**VCD 60200 DESIGN THEORY I: CULTURE, COMMUNITIES AND CONTEXT 3 Credit Hours**

(Slashed with VCD 80200) Introduces students to design theory through a lens of classic and contemporary readings taken from various disciplines. This survey of perspectives assists students in developing their individual voice as a designer. Delves into issues that affect the field of graphic design and will continue to shape culture and history. Students are asked to question ideas of community and to expand on their ideas with examples through media and technology. Students critically question notions of history, psychology and social behaviors. The writing and criticism of advertising, communication, design artifacts and culture are the primary communication tool of the class, which is completed through papers and personal reflections.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**VCD 68199 M.A.THESIS I 2-6 Credit Hours**

Thesis students must register for a minimum of 6 hours, 2-6 hours in a single semester or distributed over several semesters if desired.

**Prerequisite:** Graduate standing.

**Schedule Type:** Masters Thesis

**Contact Hours:** 2-6 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**VCD 68299 M.A.THESIS II 2 Credit Hours**

Thesis students must continue registration each semester until all degree requirements are met.

**Prerequisite:** VCD 68199; and graduate standing.

**Schedule Type:** Masters Thesis

**Contact Hours:** 2 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**VCD 69199 M.F.A. THESIS I 2-6 Credit Hours**

Thesis students must register for a minimum of 6 hours; 2 -6 hours in a single semester or distributed over several semesters if desired.

**Prerequisite:** Graduate standing.

**Schedule Type:** Masters Thesis

**Contact Hours:** 2-6 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**VCD 69299 M.F.A. THESIS II 2 Credit Hours**

Thesis students must continue registration each semester until all degree requirements are met.

**Prerequisite:** VCD 69199; and graduate standing.

**Schedule Type:** Masters Thesis

**Contact Hours:** 2 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**VCD 80171 CRITICAL PRACTICES IN DESIGN RESEARCH 3 Credit Hours**

(Repeatable for credit) (Slashed with VCD 60171) This graduate seminar course introduces methods for integrating critical practices into larger communication design research agendas. The term "critical practices" includes three areas of design-centered inquiry: critical design, critical making, and design authorship. This course is not repeatable.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Seminar

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**VCD 80200 DESIGN THEORY I: CULTURE, COMMUNITIES AND CONTEXT 3 Credit Hours**

(Slashed with VCD 60200) Introduces students to design theory through a lens of classic and contemporary readings taken from various disciplines. This survey of perspectives assists students in developing their individual voice as a designer. The class delves into issues that affect the field of graphic design and will continue to shape culture and history. Students are asked to question ideas of community and to expand on their ideas with examples through media and technology. Students critically question notions of history, psychology and social behaviors. The writing and criticism of advertising, communication, design artifacts and culture are the primary communication tool of the class, which is completed through papers and personal reflections.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

## Design - Minor

**College of Communication and Information**

School of Visual Communication Design

241 Taylor Hall

Kent Campus

330-672-7856

vcd@kent.edu

www.kent.edu/vcd

## Description

The Design minor provides students with a foundation in graphic design, including design research and history, graphic software, industry standards and professional ethics.

### Fully Offered At:

- Kent Campus

## Admission Requirements

Admission to a minor is open to students declared in a bachelor's degree, the A.A.B. or A.A.S. degree or the A.T.S. degree (not Individualized Program major). Students declared only in the A.A. or A.S. degree or the A.T.S. degree in Individualized Program may not declare a minor. Students may not pursue a minor and a major in the same discipline.

To declare the Design minor, students must have a minimum 2.000 overall Kent State University GPA. No Kent State University GPA is required if the student is a first-semester freshman or transfer student admitted in good standing.



## Minor Requirements

Code	Title	Credit Hours
<b>Minor Requirements</b>		
VCD 13000	DESIGN: PRINCIPLES, PROCESSES AND PRACTICE	3
VCD 13001	INTRODUCTION TO VISUAL COMMUNICATION DESIGN STUDIO (min B- grade)	3
VCD 22000	DESIGN/ILLUSTRATION TECHNIQUES I	3
VCD 23001	INTRODUCTION TO TYPOGRAPHY	3
Minor Electives, choose from the following:		6
VCD 33000	GRAPHIC DESIGN I	
VCD 34004	VISUAL ETHICS	
VCD 45000	GRAPHIC DESIGN PERSPECTIVES (WIC)	
Minimum Total Credit Hours:		18

## Graduation Requirements

Minimum Minor GPA	Minimum Overall GPA
2.250	2.000

- Minimum 6 credit hours in the minor must be upper-division coursework (30000 and 40000 level).
- Minimum 6 credit hours in the minor must be outside of the course requirements for any major or other minor the student is pursuing.
- Minimum 50 percent of the total credit hours for the minor must be taken at Kent State (in residence).

## Information Design - Minor

### College of Communication and Information

School of Visual Communication Design

241 Taylor Hall

Kent Campus

330-672-7856

vcd@kent.edu

www.kent.edu/vcd

## Description

The Information Design minor offers students a basic understanding of visual communication tools, theory and ethics. Subjects covered include the creation of print and digital artifacts and an understanding of information design and how it is used in many fields of study. Those fields include business, science, communication, journalism. It is expected that these skills will enhance and complement students' respective majors.

### Fully Offered At:

- Kent Campus

## Admission Requirements

Admission to a minor is open to students declared in a bachelor's degree, the A.A.B. or A.A.S. degree or the A.T.S. degree (not Individualized Program major). Students declared only in the A.A. or A.S. degree or the A.T.S. degree in Individualized Program may not declare a minor. Students may not pursue a minor and a major in the same discipline.

To declare the Information Design minor, students must have a minimum 2.000 overall Kent State University GPA. No Kent State University GPA is required if the student is a first-semester freshman or transfer student admitted in good standing.

## Minor Requirements

Code	Title	Credit Hours
<b>Minor Requirements</b>		
VCD 14001	VISUAL DESIGN LITERACY	3
VCD 20010	INTRODUCTION TO DESIGN RESEARCH	3
VCD 34004	VISUAL ETHICS	3
VCD 37000	VISUAL DESIGN FOR MEDIA: ADVANCED	3
VCD 45000	GRAPHIC DESIGN PERSPECTIVES (WIC)	3
JMC 46001	INFORMATION GRAPHICS	3
or VCD 43007	INFORMATION GRAPHICS	
Minimum Total Credit Hours:		18

## Graduation Requirements

Minimum Minor GPA	Minimum Overall GPA
2.250	2.000

- Minimum 6 credit hours in the minor must be upper-division coursework (30000 and 40000 level).
- Minimum 6 credit hours in the minor must be outside of the course requirements for any major or other minor the student is pursuing.
- Minimum 50 percent of the total credit hours for the minor must be taken at Kent State (in residence).

## Photography - B.F.A.

### College of Communication and Information

School of Visual Communication Design

241 Taylor Hall

Kent Campus

330-672-7856

vcd@kent.edu

www.kent.edu/vcd

## Description

The Bachelor of Fine Arts degree in Photography provides the student with a comprehensive program of study, balancing a liberal arts education with studio offerings in digital photography. Grounded in formal, technical and conceptual skills building, the Photography major focuses on the profession of photography as it relates to commerce. The program builds a photography professional through experiential learning opportunities, as well as through required courses in graphic design and multimedia.

Programs in the College of Communication and Information are, by nature, innovative, interdisciplinary and collaborative, which is critical to both professional and scholarly disciplines. Students are educated to work at the intersections of communication, information and technology. Through a core of diverse theory- and practice-based courses, students learn basic concepts that apply across the range of college programs and develop a sense of professional expectations and build toward interdisciplinary thinking and application.

There are many study abroad/away opportunities. For more information contact the Office of Global Education.

### Fully Offered At:

- Kent Campus

## Accreditation

National Association of Schools of Art and Design

## Admission Requirements

Admission to this major is selective. The School of Visual Communication Design recognizes that competence in visual design, as well as intellectual capacity, are necessary qualities in students who plan to prepare for a career in visual communication design or photography. Therefore, the right is reserved to require evidence of achievement in design and related areas from all students aspiring to enroll for the first time as majors in the school. Early admission is recommended.

The school director may impose additional requirements considered reasonable and necessary. Each transfer student will be evaluated individually in terms of his or her ability to perform within the program. A transfer applicant's strengths and deficiencies will be considered and his or her transfer credits will reflect that consideration.

### English Language Proficiency Requirements for International Students:

All international students must provide proof of English language proficiency (unless they meet specific exceptions) by earning a minimum 525 TOEFL score (71 on the Internet-based version), minimum 75 MELAB score, minimum 6.0 IELTS score or minimum 48 PTE Academic score, or by completing the ELS level 112 Intensive Program. For more information on international admission, visit the Office of Global Education's admission website.

## Program Learning Outcomes

Graduates of this program will be able to:

1. Demonstrate an understanding of the ethics (and legal issues) closely associated with fields of visual communication.
2. Demonstrate an understanding of traditional hands-on skills relative to craftsmanship. Students will demonstrate an understanding of the basic use of digital technologies as they relate to their areas of study.
3. Demonstrate an ability to create visual response to communication problems, including understanding of hierarchy, typography, aesthetics, composition and construction of meaningful images.

## University Requirements

All students in a bachelor's degree program at Kent State University must complete the following university requirements for graduation.

**NOTE:** University requirements may be fulfilled in this program by specific course requirements. Please see Program Requirements for details.

Destination Kent State: First Year Experience	1
Course is not required for students with 25 transfer credits, excluding College Credit Plus, or age 21+ at time of admission.	
Diversity Domestic/Global (DIVD/DIVG)	2 courses
Students must successfully complete one domestic and one global course, of which one must be from the Kent Core.	
Experiential Learning Requirement (ELR)	varies

Students must successfully complete one course or approved experience.	
Kent Core (see table below)	36-37
Writing-Intensive Course (WIC)	1 course
Students must earn a minimum C grade in the course.	
Upper-Division Requirement	39 (or 42)
Students must successfully complete 39 upper-division (numbered 30000 to 49999) credit hours to graduate. Students in a B.A. and/or B.S. degree in the College of Arts and Sciences must complete 42 upper-division credit hours.	
Total Credit Hour Requirement	120
Some bachelor's degrees require students to complete more than 120 credit hours.	

## Kent Core Requirements

Kent Core Composition (KCOMP)	6
Kent Core Mathematics and Critical Reasoning (KMCR)	3
Kent Core Humanities and Fine Arts (KHUM/KFA) (min one course each)	9
Kent Core Social Sciences (KSS) (must be from two disciplines)	6
Kent Core Basic Sciences (KBS/KLAB) (must include one laboratory)	6-7
Kent Core Additional (KADL)	6
<b>Total Credit Hours:</b>	<b>36-37</b>

## Program Requirements

### Major Requirements

Code	Title	Credit Hours
<b>Major Requirements (courses count in major GPA)</b>		
CCI 12001	PHOTOGRAPHY	3
VCD 13000	DESIGN: PRINCIPLES, PROCESSES AND PRACTICE	3
VCD 13001	INTRODUCTION TO VISUAL COMMUNICATION DESIGN STUDIO (min B- grade)	3
VCD 18002	PHOTOGRAPHY II	3
VCD 23001	INTRODUCTION TO TYPOGRAPHY	3
VCD 28003	PHOTO TECHNOLOGY	3
VCD 28004	PHOTOGRAPHIC PERSPECTIVES	3
VCD 34004	VISUAL ETHICS	3
VCD 34006	MOTION DESIGN	3
VCD 37000	VISUAL DESIGN FOR MEDIA: ADVANCED	3
VCD 38001	PHOTOGRAPHICS	3
VCD 38004	ADVANCED PHOTOGRAPHY	3
VCD 38007	EMERGING PHOTOGRAPHY	3
VCD 38009	INTERNSHIP SEMINAR - PHOTOGRAPHY	2
VCD 38011	EDITORIAL PHOTOGRAPHY	3
VCD 40192	INTERNSHIP II-GRAPHIC DESIGN/ ILLUSTRATION/PHOTOGRAPHY (ELR)	3
VCD 45000	GRAPHIC DESIGN PERSPECTIVES (WIC) <sup>1</sup>	3
VCD 48001	PHOTOGRAPHIC PROJECT	3
VCD 48002	ADVANCED PHOTOGRAPHIC PROJECT	3
VCD 48003	PROFESSIONAL PORTFOLIO PHOTOGRAPHY	3
VCD 48005	COLOR PHOTOGRAPHY	3
VCD 48008	ADVANCED DIGITAL IMAGING	3
VCD 48009	FASHION PHOTOGRAPHY	3

### Additional Requirements (courses do not count in major GPA)

ARTH 22006	ART HISTORY: ANCIENT AND MEDIEVAL ART (KFA)	3
ARTH 22007	ART HISTORY: RENAISSANCE TO MODERN ART (KFA)	3
Art History (ARTH) Upper-Division Elective (30000 or 40000 level)		3
COMM 15000	INTRODUCTION TO HUMAN COMMUNICATION (KADL)	3
ENTR 27056	INTRODUCTION TO ENTREPRENEURSHIP	3
Entrepreneurship (ENTR) Elective		3
JMC 20001	MEDIA, POWER AND CULTURE (DIVD) (KSS)	3
UC 10097	DESTINATION KENT STATE: FIRST YEAR EXPERIENCE	1
College of Communication and Information Core Electives, choose from the following:		3
COMM 35852	INTERCULTURAL COMMUNICATION (DIVG)	
EMAT 15310	CREATIVE CODING	
EMAT 33310	HUMAN-COMPUTER INTERACTION	
JMC 21008	SOCIAL MEDIA STRATEGIES	
LIS 30010	INFORMATION FLUENCY IN THE WORKPLACE AND BEYOND	
UXD 20001	INTRODUCTION TO USER EXPERIENCE DESIGN	
Kent Core Composition		6
Kent Core Mathematics and Critical Reasoning		3
Kent Core Humanities		3
Kent Core Social Sciences		3
Kent Core Basic Sciences (must include one laboratory)		6-7
Kent Core Additional		3
General Electives (total credit hours depends on earning 120 credit hours, including 39 upper-division credit hours)		3
Minimum Total Credit Hours:		120

<sup>1</sup> A minimum C grade must be earned to fulfill the writing-intensive requirement.

## Progression Requirements

- Students must receive a minimum B- in VCD 13001 before enrolling in VCD 23001. VCD 13001 may be taken a maximum three times until a minimum B- grade is achieved.
- Students must maintain a 2.500 major GPA in order to continue taking VCD courses. Failure to do so at the end of one semester will result in a written warning with the option of repeating certain VCD courses in order to meet minimum grade and GPA requirements to continue. Failure to do so at the end of two consecutive semesters will result in not being permitted to enroll in VCD courses. Students in this situation will be contacted by an academic advisor to create an alternative plan of study with a new major.

## Graduation Requirements

Minimum Major GPA	Minimum Overall GPA
2.700	2.000

- A minimum B- grade may be required in some courses.

## Roadmap

This roadmap is a recommended semester-by-semester plan of study for this major. However, courses designated as critical (!) must be completed in the semester listed to ensure a timely graduation.

Semester One		Credits
CCI 12001	PHOTOGRAPHY	3
! VCD 13000	DESIGN: PRINCIPLES, PROCESSES AND PRACTICE	3
! VCD 13001	INTRODUCTION TO VISUAL COMMUNICATION DESIGN STUDIO	3
UC 10097	DESTINATION KENT STATE: FIRST YEAR EXPERIENCE	1
Kent Core Requirement		3
Kent Core Requirement		3
Credit Hours		16
Semester Two		Credits
COMM 15000	INTRODUCTION TO HUMAN COMMUNICATION (KADL)	3
! VCD 18002	PHOTOGRAPHY II	3
! VCD 23001	INTRODUCTION TO TYPOGRAPHY	3
VCD 37000	VISUAL DESIGN FOR MEDIA: ADVANCED	3
Kent Core Requirement		3
Credit Hours		15
Semester Three		Credits
ARTH 22006	ART HISTORY: ANCIENT AND MEDIEVAL ART (KFA)	3
! VCD 28003	PHOTO TECHNOLOGY	3
! VCD 28004	PHOTOGRAPHIC PERSPECTIVES	3
VCD 38004	ADVANCED PHOTOGRAPHY	3
Kent Core Requirement		3
Credit Hours		15
Semester Four		Credits
ARTH 22007	ART HISTORY: RENAISSANCE TO MODERN ART (KFA)	3
JMC 20001	MEDIA, POWER AND CULTURE (DIVD) (KSS)	3
VCD 48005	COLOR PHOTOGRAPHY	3
VCD 48008	ADVANCED DIGITAL IMAGING	3
Kent Core Requirement		3
Credit Hours		15
Semester Five		Credits
! VCD 38001	PHOTOGRAPHICS	3
! VCD 38007	EMERGING PHOTOGRAPHY	3
! VCD 38009	INTERNSHIP SEMINAR - PHOTOGRAPHY	2
VCD 34004	VISUAL ETHICS	3
Kent Core Requirement		3
Credit Hours		14
Semester Six		Credits
ENTR 27056	INTRODUCTION TO ENTREPRENEURSHIP	3
! VCD 48009	FASHION PHOTOGRAPHY	3
Art History (ARTH) Upper-Division Elective (30000 or 40000 level)		3
Kent Core Requirement		3
Kent Core Requirement		3
Credit Hours		15
Third Summer Term		Credits
! VCD 40192	INTERNSHIP II-GRAPHIC DESIGN/ ILLUSTRATION/PHOTOGRAPHY (ELR)	3
Credit Hours		3
Semester Seven		Credits
! VCD 48001	PHOTOGRAPHIC PROJECT	3
VCD 34006	MOTION DESIGN	3
! VCD 38011	EDITORIAL PHOTOGRAPHY	3

VCD 45000	GRAPHIC DESIGN PERSPECTIVES (WIC)	3
Credit Hours		12
<b>Semester Eight</b>		
! VCD 48002	ADVANCED PHOTOGRAPHIC PROJECT	3
! VCD 48003	PROFESSIONAL PORTFOLIO PHOTOGRAPHY	3
Entrepreneurship (ENTR) Elective		3
College of Communication and Information Core Electives		3
General Electives		3
Credit Hours		15
Minimum Total Credit Hours:		120

VCD 48009	FASHION PHOTOGRAPHY	
Visual Communication Design (VCD) Upper-Division Elective, choose from the following:		3
VCD 38011	EDITORIAL PHOTOGRAPHY	
VCD 48005	COLOR PHOTOGRAPHY	
VCD 48008	ADVANCED DIGITAL IMAGING	
VCD 48009	FASHION PHOTOGRAPHY	
Minimum Total Credit Hours:		18

## Photography - Minor

### College of Communication and Information

School of Visual Communication Design

241 Taylor Hall

Kent Campus

330-672-7856

vcd@kent.edu

www.kent.edu/vcd

## Description

The Photography minor offers students a basic understanding of photography as it relates to commercial use. Subjects covered include camera manipulation, composition, lighting, digital technologies, photography used as illustration and photography as it is used in print and online publications.

### Fully Offered At:

- Kent Campus

## Admission Requirements

Admission to a minor is open to students declared in a bachelor's degree, the A.A.B. or A.A.S. degree or the A.T.S. degree (not Individualized Program major). Students declared only in the A.A. or A.S. degree or the A.T.S. degree in Individualized Program may not declare a minor. Students may not pursue a minor and a major in the same discipline.

To declare the Photography minor, students must have a minimum 2.000 overall Kent State University GPA. No Kent State University GPA is required if the student is a first-semester freshman or transfer student admitted in good standing.

## Minor Requirements

Code	Title	Credit Hours
<b>Minor Requirements</b>		
CCI 12001	PHOTOGRAPHY	3
VCD 18002	PHOTOGRAPHY II	3
VCD 28003	PHOTO TECHNOLOGY	3
VCD 38004	ADVANCED PHOTOGRAPHY	3
Visual Communication Design (VCD) Elective, choose from the following:		3
VCD 28004	PHOTOGRAPHIC PERSPECTIVES	
VCD 38011	EDITORIAL PHOTOGRAPHY	
VCD 48005	COLOR PHOTOGRAPHY	
VCD 48008	ADVANCED DIGITAL IMAGING	

## Graduation Requirements

Minimum Minor GPA	Minimum Overall GPA
2.250	2.000

- Minimum 6 credit hours in the minor must be upper-division coursework (30000 and 40000 level).
- Minimum 6 credit hours in the minor must be outside of the course requirements for any major or other minor the student is pursuing.
- Minimum 50 percent of the total credit hours for the minor must be taken at Kent State (in residence).

## User Experience Design - Minor

### College of Communication and Information

School of Visual Communication Design

241 Taylor Hall

Kent Campus

330-672-7856

vcd@kent.edu

www.kent.edu/vcd

### College of Communication and Information

School of Information

314 University Library

Kent Campus

330-672-2782

iSchool@kent.edu

www.kent.edu/iSchool

## Description

The User Experience Design minor provides students with comprehension and applicable skills that focus on a product's overall customer experience, ease of use, control and feedback. The minor's curriculum covers fundamentals, principles, strategies, software, industry standards and professional ethics in regards to user experience design, user interface design, prototyping, usability, technology, software and information architecture.

### Fully Offered At:

- Kent Campus

## Admission Requirements

Admission to a minor is open to students declared in a bachelor's degree, the A.A.B. or A.A.S. degree or the A.T.S. degree (not Individualized Program major). Students declared only in the A.A. or A.S. degree or the A.T.S. degree in Individualized Program may not declare a minor. Students may not pursue a minor and a major in the same discipline.

To declare the User Experience Design minor, students must have a minimum 2.700 overall Kent State University GPA and have completed 15 earned credit hours.

## Program Learning Outcomes

Graduates of this program will be able to:

- Create a portfolio as a means to demonstrate competencies.
- Design and conduct research in a variety of ways necessary to understand users, stakeholders and competitors.
- Apply principles of Information Architecture and Content Strategy to web and mobile design problems.
- Create and evaluate structures to support information and content organization.
- Test and critique existing designs and prototypes by employing usability testing methods.
- Communicate design ideas in a variety of ways to design teams, stakeholders and developers.

## Minor Requirements

Code	Title	Credit Hours
<b>Minor Requirements</b>		
UXD 20001	INTRODUCTION TO USER EXPERIENCE DESIGN	3
UXD 40104	USABILITY	3
VCD 21000	INTRODUCTION TO WEB DESIGN	3
VCD 34006	MOTION DESIGN	3
Minor Electives, choose from the following:		6
CCI 46001	RESPONSIVE WEB DESIGN	
EMAT 33310	HUMAN-COMPUTER INTERACTION	
VCD 34004	VISUAL ETHICS	
VCD 43001	INTERACTION DESIGN I	
Minimum Total Credit Hours:		18

## Graduation Requirements

Minimum Minor GPA	Minimum Overall GPA
2.700	2.000

- Minimum 6 credit hours in the minor must be upper-division coursework (30000 and 40000 level).
- Minimum 6 credit hours in the minor must be outside of the course requirements for any major or other minor the student is pursuing.
- Minimum 50 percent of the total credit hours for the minor must be taken at Kent State (in residence).

## Technology Requirements

- Personal laptop, preferably a MacBook Pro or a comparable PC that can handle video and animations.
- Subscription to Lynda.com (Kent State supplies a Lynda.com campus subscription with enrollment).
- Primary software Adobe Creative Cloud (Photoshop, Illustrator, After Effects, InDesign, XD, Muse and Edge Animate) and MS Office or Apple's iWork Suite for each class.
- Other software may include Tumult Hype, Sketch, InVision, Transmit (or another FTP client), Text Edit, Balsamiq, Axure or Omnigraffle.

# Visual Communication Design - B.A.

## College of Communication and Information

School of Visual Communication Design

241 Taylor Hall

Kent Campus

330-672-7856

vcd@kent.edu

www.kent.edu/vcd

## Description

The Bachelor of Arts degree in Visual Communication Design prepares students for the graphic design and illustration professions. Students develop technical understanding and design skills in the organization of imagery and typography to communicate information in two-dimensional and three-dimensional forms. Students produce work for print, motion, video, screen displays, and interactive experiences, as well as package design, exhibition design, and environmental wayfinding.

This program focuses on design and illustration in the context of a broad liberal arts program, giving students the flexibility to choose 20 percent of their coursework (with guidance). This provides the opportunity for students to take a variety of courses to complement their design degree. Students learn at the intersections of communication, information, and technology.

Through a core of diverse theory- and practice-based courses, students learn basic concepts that apply across the range of college programs and develop a sense of professional expectations and build toward interdisciplinary thinking and application.

There are many study abroad/away opportunities. For more information contact the Office of Global Education or coordinator of the college's International Study Programs.

## Fully Offered At:

- Kent Campus

## Accreditation

National Association of Schools of Art and Design (NASAD)

## Admission Requirements

The university affirmatively strives to provide educational opportunities and access to students with varied backgrounds, those with special talents and adult students who graduated from high school three or more years ago.

**Freshman Students on the Kent Campus:** The freshman admission policy on the Kent Campus is selective. Admission decisions are based upon the following: cumulative grade point average, ACT and/or SAT scores, strength of high school college preparatory curriculum and grade trends. The Admissions Office at the Kent Campus may defer the admission of students who do not meet admissions criteria but who demonstrate areas of promise for successful college study. Deferred applicants may begin their college coursework at one of seven regional campuses of Kent State University. For more information on admissions,



including additional requirements for some academic programs, visit the admissions website for new freshmen.

**Freshman Students on the Regional Campuses:** Kent State campuses at Ashtabula, East Liverpool, Geauga, Salem, Stark, Trumbull and Tuscarawas, as well as the Regional Academic Center in Twinsburg, have open enrollment admission for students who hold a high school diploma, GED or equivalent.

**English Language Proficiency Requirements for International Students:** All international students must provide proof of English language proficiency (unless they meet specific exceptions) by earning a minimum 525 TOEFL score (71 on the Internet-based version), minimum 75 MELAB score, minimum 6.0 IELTS score or minimum 48 PTE score, or by completing the ESL level 112 Intensive Program. For more information on international admission, visit the Office of Global Education's admission website.

**Transfer, Transitioning and Former Students:** For more information about admission criteria for transfer, transitioning and former students, please visit the admissions website.

The director of the School of Visual Communication Design may impose additional requirements considered reasonable and necessary. Each transfer student will be evaluated individually in terms of his or her ability to perform within the program. A transfer applicant's strengths and deficiencies will be considered and his or her transfer credits will reflect that consideration.

## Program Learning Outcomes

Graduates of this program will be able to:

1. Demonstrate an understanding of the ethics (and legal issues) closely associated with fields of visual communication.
2. Demonstrate an understanding of traditional hands-on skills relative to craftsmanship. Students will demonstrate an understanding of the basic use of digital technologies as they relate to their areas of study.
3. Demonstrate an ability to create visual response to communication problems, including understanding of hierarchy, typography, aesthetics, composition and construction of meaningful images.

## University Requirements

All students in a bachelor's degree program at Kent State University must complete the following university requirements for graduation.

**NOTE:** University requirements may be fulfilled in this program by specific course requirements. Please see Program Requirements for details.

Destination Kent State: First Year Experience	1
Course is not required for students with 25 transfer credits, excluding College Credit Plus, or age 21+ at time of admission.	
Diversity Domestic/Global (DIVD/DIVG)	2 courses
Students must successfully complete one domestic and one global course, of which one must be from the Kent Core.	
Experiential Learning Requirement (ELR)	varies
Students must successfully complete one course or approved experience.	
Kent Core (see table below)	36-37
Writing-Intensive Course (WIC)	1 course
Students must earn a minimum C grade in the course.	

Upper-Division Requirement	39 (or 42)
Students must successfully complete 39 upper-division (numbered 30000 to 49999) credit hours to graduate. Students in a B.A. and/or B.S. degree in the College of Arts and Sciences must complete 42 upper-division credit hours.	
Total Credit Hour Requirement	120
Some bachelor's degrees require students to complete more than 120 credit hours.	

## Kent Core Requirements

Kent Core Composition (KCMP)	6
Kent Core Mathematics and Critical Reasoning (KMCR)	3
Kent Core Humanities and Fine Arts (KHUM/KFA) (min one course each)	9
Kent Core Social Sciences (KSS) (must be from two disciplines)	6
Kent Core Basic Sciences (KBS/KLAB) (must include one laboratory)	6-7
Kent Core Additional (KADL)	6
<b>Total Credit Hours:</b>	<b>36-37</b>

## Program Requirements

### Major Requirements

Code	Title	Credit Hours
<b>Major Requirements (courses count in major GPA)</b>		
VCD 13000	DESIGN: PRINCIPLES, PROCESSES AND PRACTICE	3
VCD 13001	INTRODUCTION TO VISUAL COMMUNICATION DESIGN STUDIO (min B- grade)	3
VCD 20010	INTRODUCTION TO DESIGN RESEARCH	3
VCD 22000	DESIGN/ILLUSTRATION TECHNIQUES I	3
VCD 22001	DESIGN/ILLUSTRATION TECHNIQUES II	3
VCD 23001	INTRODUCTION TO TYPOGRAPHY (min B- grade)	3
VCD 33000	GRAPHIC DESIGN I	3
VCD 33001	GRAPHIC DESIGN II	3
VCD 34004	VISUAL ETHICS	3
VCD 34006	MOTION DESIGN	3
VCD 40092	INTERNSHIP I-GRAPHIC DESIGN/ ILLUSTRATION (ELR)	1
VCD 40053 or VCD 40192	GRAPHIC DESIGN STUDIO-GLYPHIX INTERNSHIP II-GRAPHIC DESIGN/ILLUSTRATION/ PHOTOGRAPHY (ELR)	3
VCD 45000	GRAPHIC DESIGN PERSPECTIVES (WIC) <sup>1</sup>	3
VCD 49199	CAPSTONE PROJECT (ELR)	3
VCD Bachelor of Arts Guided Electives, choose from the following:		9
CCI 12001	PHOTOGRAPHY	
CCI 46001	RESPONSIVE WEB DESIGN	
CCI 46002	ADVANCED RESPONSIVE WEB DESIGN	
VCD 18002	PHOTOGRAPHY II	
VCD 28003	PHOTO TECHNOLOGY	
VCD 32000	ILLUSTRATION I	
VCD 32001	ILLUSTRATION II	
VCD 34005	INTRODUCTION TO 3D GRAPHIC DESIGN	
VCD 38004	ADVANCED PHOTOGRAPHY	
VCD 40052	GRAPHIC DESIGN-TRAVEL AND FIELD EXPERIENCE	

VCD 42000	ADVANCED ILLUSTRATION: MEDIA
VCD 42002	EDITORIAL ILLUSTRATION
VCD 42003	ADVERTISING ILLUSTRATION
VCD 42005	CHARACTER DEVELOPMENT AND DESIGN: THE HUMAN FIGURE
VCD 42006	CHARACTER DEVELOPMENT AND DESIGN: ANIMALS AND ENVIRONMENTS
VCD 42007	GRAPHIC NARRATIVE
VCD 43000	STUDIO PRODUCTION
VCD 43001	INTERACTION DESIGN I
VCD 43002	TYPOGRAPHY II
VCD 43003	IDENTITY SYSTEMS
VCD 43004	PROFESSIONAL COMMUNICATION FOR DESIGN
VCD 43005	PACKAGING, PROMOTION AND RETAIL ENVIRONMENTS
VCD 43101	INTERACTION DESIGN II
VCD 43006	ENVIRONMENTAL GRAPHIC DESIGN
VCD 43007	INFORMATION GRAPHICS
VCD 43051	TYPE HIGH PRESS
VCD 43060	INTRODUCTION TO TYPEFACE DESIGN
VCD 44001	EXHIBITION DESIGN
VCD 46003	TYPOGRAPHY III

**Additional Requirements (courses do not count in major GPA)**

UC 10097	DESTINATION KENT STATE: FIRST YEAR EXPERIENCE	1
College of Communication and Information Core Electives, choose from the following:		9
COMM 15000	INTRODUCTION TO HUMAN COMMUNICATION (KADL)	
COMM 35852	INTERCULTURAL COMMUNICATION (DIVG)	
EMAT 15310	CREATIVE CODING	
EMAT 33310	HUMAN-COMPUTER INTERACTION	
JMC 20001	MEDIA, POWER AND CULTURE (DIVD) (KSS)	
JMC 21008	SOCIAL MEDIA STRATEGIES	
LIS 30010	INFORMATION FLUENCY IN THE WORKPLACE AND BEYOND	
UXD 20001	INTRODUCTION TO USER EXPERIENCE DESIGN	
Kent Core Composition		6
Kent Core Mathematics and Critical Reasoning		3
Kent Core Humanities and Fine Arts		9
Kent Core Social Sciences (must be from two disciplines)		6
Kent Core Basic Sciences (must include one laboratory)		6-7
Kent Core Additional		6
General Electives (total credit hours depends on earning 120 credit hours, including 39 upper-division credit hours)		25
Minimum Total Credit Hours:		120

<sup>1</sup> A minimum C grade must be earned to fulfill the writing-intensive requirement.

**Progression Requirements**

- Students must receive a minimum B- in VCD 13001 before enrolling in VCD 23001. VCD 13001 may be taken a maximum three times until a minimum B- grade is achieved.
- Students must receive a minimum B- in VCD 23001 before enrolling in VCD 33000.

- Students must maintain a 2.500 major GPA in order to continue taking VCD courses. Failure to do so at the end of one semester will result in a written warning with the option of repeating certain VCD courses in order to meet minimum grade and GPA requirements to continue. Failure to do so at the end of two consecutive semesters will result in not being permitted to enroll in VCD courses. Students in this situation will be contacted by an academic advisor to create an alternative plan of study with a new major.

**Graduation Requirements**

Minimum Major GPA	Minimum Overall GPA
2.500	2.000

- Any Visual Communication Design (VCD) course taken is calculated in the major GPA.
- A minimum B- may be required in some courses.

**Roadmap**

This roadmap is a recommended semester-by-semester plan of study for this major. However, courses designated as critical (!) must be completed in the semester listed to ensure a timely graduation.

Semester One		Credits
!	VCD 13000 DESIGN: PRINCIPLES, PROCESSES AND PRACTICE	3
!	VCD 13001 INTRODUCTION TO VISUAL COMMUNICATION DESIGN STUDIO	3
	UC 10097 DESTINATION KENT STATE: FIRST YEAR EXPERIENCE	1
	Kent Core Requirement	3
	Kent Core Requirement	3
	Kent Core Requirement	3
Credit Hours		16
Semester Two		Credits
!	VCD 22000 DESIGN/ILLUSTRATION TECHNIQUES I	3
!	VCD 23001 INTRODUCTION TO TYPOGRAPHY	3
	College of Communication and Information Core Electives	6
	Kent Core Requirement	3
Credit Hours		15
Semester Three		Credits
!	VCD 20010 INTRODUCTION TO DESIGN RESEARCH	3
!	VCD 22001 DESIGN/ILLUSTRATION TECHNIQUES II	3
!	VCD 33000 GRAPHIC DESIGN I	3
	Kent Core Requirement	3
	Kent Core Requirement	3
Credit Hours		15
Semester Four		Credits
	VCD 34006 MOTION DESIGN	3
	VCD 40092 INTERNSHIP I-GRAPHIC DESIGN/ILLUSTRATION (ELR)	1
	Kent Core Requirement	3
	Kent Core Requirement	3
	Kent Core Requirement	3
	General Electives	3
Credit Hours		16
Semester Five		Credits
	VCD 33001 GRAPHIC DESIGN II	3
!	VCD 34004 VISUAL ETHICS	3

Kent Core Requirement		3
Kent Core Requirement		3
General Electives		3
Credit Hours		15
<b>Semester Six</b>		
VCD 45000	GRAPHIC DESIGN PERSPECTIVES (WIC)	3
VCD Bachelor of Arts Guided Electives		3
College of Communication and Information Core Electives		3
Kent Core Requirement		3
General Electives		3
Credit Hours		15
<b>Third Summer Term</b>		
VCD 40053	GRAPHIC DESIGN STUDIO-GLYPHIX	3
or	or INTERNSHIP II-GRAPHIC DESIGN/ ILLUSTRATION/PHOTOGRAPHY (ELR)	
VCD 40192		
Credit Hours		3
<b>Semester Seven</b>		
VCD Bachelor of Arts Guided Electives		3
General Electives		9
Credit Hours		12
<b>Semester Eight</b>		
VCD 49199	CAPSTONE PROJECT (ELR)	3
VCD Bachelor of Arts Guided Electives		3
General Electives		7
Credit Hours		13
Minimum Total Credit Hours:		120

## Visual Communication Design - B.F.A.

### College of Communication and Information

School of Visual Communication Design

241 Taylor Hall

Kent Campus

330-672-7856

vcd@kent.edu

www.kent.edu/vcd

## Description

The Bachelor of Fine Arts degree in Visual Communication Design prepares students for design and illustration professions. Students develop technical proficiency and design expertise in the organization of imagery and typography to communicate information in two-dimensional and three-dimensional forms using interactive media, as well as environments and motion graphic design. Students produce work for print, video, screen displays and interactive experiences, as well as package design, exhibition design and environmental wayfinding.

This major leads to a professional degree and focuses on intensive work in the visual arts. The B.F.A. degree consists of approximately two-thirds of the coursework in the creation and study of the visual arts, with the remainder in liberal/general studies. Because of the greater emphasis on upper-level studio courses, the B.F.A. degree allows students an opportunity to build greater expertise in a given area of the field.

There are many study abroad/away opportunities. For more information contact the Office of Global Education or coordinator of the college's International Study Programs.

### Fully Offered At:

- Kent Campus

## Accreditation

National Association of Schools of Art and Design

## Admission Requirements

Admission to this major is selective. The Bachelor of Fine Arts requires a minimum 2.700 GPA in major, 2.000 GPA overall calculated after the completion of VCD 33000.

The School of Visual Communication Design recognizes that competence in visual design as well as intellectual capacity are necessary qualities in students who plan to prepare for a career in visual communication design. Therefore, the right is reserved to require evidence of achievement in design and related areas from all students endeavoring to enroll for the first time as majors in the school. Early admission is recommended.

Each transfer student will be evaluated individually in terms of his or her ability to perform within the program. A transfer applicant's strengths and deficiencies will be considered and his or her transfer credits will reflect that consideration. The director of the School of Visual Communication Design may impose additional requirements considered reasonable and necessary.

### English Language Proficiency Requirements for International Students:

All international students must provide proof of English language proficiency (unless they meet specific exceptions) by earning a minimum 525 TOEFL score (71 on the Internet-based version), minimum 75 MELAB score, minimum 6.0 IELTS score or minimum 48 PTE Academic score, or by completing the ELS level 112 Intensive Program. For more information on international admission, visit the Office of Global Education's admission website.

## Program Learning Outcomes

Graduates of this program will be able to:

1. Demonstrate an understanding of the ethics (and legal issues) closely associated with fields of visual communication.
2. Demonstrate an understanding of traditional hands-on skills relative to craftsmanship. Students will demonstrate an understanding of the basic use of digital technologies as they relate to their areas of study.
3. Demonstrate an ability to create visual response to communication problems, including understanding of hierarchy, typography, aesthetics, composition and construction of meaningful images.

## University Requirements

All students in a bachelor's degree program at Kent State University must complete the following university requirements for graduation.

**NOTE:** University requirements may be fulfilled in this program by specific course requirements. Please see Program Requirements for details.

Destination Kent State: First Year Experience	1
Course is not required for students with 25 transfer credits, excluding College Credit Plus, or age 21+ at time of admission.	
Diversity Domestic/Global (DIVD/DIVG)	2 courses
Students must successfully complete one domestic and one global course, of which one must be from the Kent Core.	
Experiential Learning Requirement (ELR)	varies
Students must successfully complete one course or approved experience.	
Kent Core (see table below)	36-37
Writing-Intensive Course (WIC)	1 course
Students must earn a minimum C grade in the course.	
Upper-Division Requirement	39 (or 42)
Students must successfully complete 39 upper-division (numbered 30000 to 49999) credit hours to graduate. Students in a B.A. and/or B.S. degree in the College of Arts and Sciences must complete 42 upper-division credit hours.	
Total Credit Hour Requirement	120
Some bachelor's degrees require students to complete more than 120 credit hours.	

## Kent Core Requirements

Kent Core Composition (KCOMP)	6
Kent Core Mathematics and Critical Reasoning (KMCR)	3
Kent Core Humanities and Fine Arts (KHUM/KFA) (min one course each)	9
Kent Core Social Sciences (KSS) (must be from two disciplines)	6
Kent Core Basic Sciences (KBS/KLAB) (must include one laboratory)	6-7
Kent Core Additional (KADL)	6
<b>Total Credit Hours:</b>	<b>36-37</b>

## Program Requirements

### Major Requirements

Code	Title	Credit Hours
<b>Major Requirements (courses count in major GPA)</b>		
CCI 12001	PHOTOGRAPHY	3
VCD 13000	DESIGN: PRINCIPLES, PROCESSES AND PRACTICE	3
VCD 13001	INTRODUCTION TO VISUAL COMMUNICATION DESIGN STUDIO (min B- grade)	3
VCD 20010	INTRODUCTION TO DESIGN RESEARCH	3
VCD 22000	DESIGN/ILLUSTRATION TECHNIQUES I	3
VCD 22001	DESIGN/ILLUSTRATION TECHNIQUES II	3
VCD 23001	INTRODUCTION TO TYPOGRAPHY (min B- grade)	3
VCD 33000	GRAPHIC DESIGN I	3
VCD 33001	GRAPHIC DESIGN II	3
VCD 34004	VISUAL ETHICS	3
VCD 34005	INTRODUCTION TO 3D GRAPHIC DESIGN	3
VCD 34006	MOTION DESIGN	3
VCD 40035	PROFESSIONAL PORTFOLIO BFA DESIGN	3
VCD 40053	GRAPHIC DESIGN STUDIO-GLYPHIX	3

or VCD 40192	INTERNSHIP II-GRAPHIC DESIGN/ILLUSTRATION/ PHOTOGRAPHY (ELR)	
VCD 40092	INTERNSHIP I-GRAPHIC DESIGN/ ILLUSTRATION (ELR)	1
VCD 43001	INTERACTION DESIGN I	3
VCD 43002	TYPOGRAPHY II	3
VCD 43003	IDENTITY SYSTEMS	3
VCD 43101	INTERACTION DESIGN II	3
VCD 45000	GRAPHIC DESIGN PERSPECTIVES (WIC) <sup>1</sup>	3
VCD Specialization Electives, choose from the following:		12
CCI 46001	RESPONSIVE WEB DESIGN	
VCD 40052	GRAPHIC DESIGN-TRAVEL AND FIELD EXPERIENCE	
VCD 40053	GRAPHIC DESIGN STUDIO-GLYPHIX	
VCD 40095	SPECIAL TOPICS:GRAPHIC DESIGN/ ILLUSTRATION	
VCD 42002	EDITORIAL ILLUSTRATION	
VCD 42003	ADVERTISING ILLUSTRATION	
VCD 42005	CHARACTER DEVELOPMENT AND DESIGN: THE HUMAN FIGURE	
VCD 42006	CHARACTER DEVELOPMENT AND DESIGN: ANIMALS AND ENVIRONMENTS	
VCD 42007	GRAPHIC NARRATIVE	
VCD 43004	PROFESSIONAL COMMUNICATION FOR DESIGN	
VCD 43005	PACKAGING, PROMOTION AND RETAIL ENVIRONMENTS	
VCD 43006	ENVIRONMENTAL GRAPHIC DESIGN	
VCD 43060	INTRODUCTION TO TYPEFACE DESIGN	
VCD 46003	TYPOGRAPHY III	
VCD 49199	CAPSTONE PROJECT (ELR)	
VCD Additional Electives, choose from the following: <sup>2</sup>		6
CCI 46001	RESPONSIVE WEB DESIGN	
VCD 18002	PHOTOGRAPHY II	
VCD 28003	PHOTO TECHNOLOGY	
VCD 32000	ILLUSTRATION I	
VCD 32001	ILLUSTRATION II	
VCD 38004	ADVANCED PHOTOGRAPHY	
VCD 40052	GRAPHIC DESIGN-TRAVEL AND FIELD EXPERIENCE	
VCD 40053	GRAPHIC DESIGN STUDIO-GLYPHIX	
VCD 40095	SPECIAL TOPICS:GRAPHIC DESIGN/ ILLUSTRATION	
VCD 42002	EDITORIAL ILLUSTRATION	
VCD 42003	ADVERTISING ILLUSTRATION	
VCD 42005	CHARACTER DEVELOPMENT AND DESIGN: THE HUMAN FIGURE	
VCD 42006	CHARACTER DEVELOPMENT AND DESIGN: ANIMALS AND ENVIRONMENTS	
VCD 42007	GRAPHIC NARRATIVE	
VCD 43000	STUDIO PRODUCTION	
VCD 43004	PROFESSIONAL COMMUNICATION FOR DESIGN	
VCD 43005	PACKAGING, PROMOTION AND RETAIL ENVIRONMENTS	
VCD 43006	ENVIRONMENTAL GRAPHIC DESIGN	
VCD 43051	TYPE HIGH PRESS <sup>3</sup>	
VCD 43060	INTRODUCTION TO TYPEFACE DESIGN	
VCD 46003	TYPOGRAPHY III	

VCD 49199	CAPSTONE PROJECT (ELR)	
<b>Additional Requirements (courses do not count in major GPA)</b>		
COMM 15000	INTRODUCTION TO HUMAN COMMUNICATION (KADL)	3
or JMC 20001	MEDIA, POWER AND CULTURE (DIVD) (KSS)	
UC 10097	DESTINATION KENT STATE: FIRST YEAR EXPERIENCE	1
College of Communication and Information Core Electives		6
COMM 15000	INTRODUCTION TO HUMAN COMMUNICATION (KADL) <sup>4</sup>	
COMM 35852	INTERCULTURAL COMMUNICATION (DIVG)	
EMAT 15310	CREATIVE CODING	
EMAT 33310	HUMAN-COMPUTER INTERACTION	
JMC 20001	MEDIA, POWER AND CULTURE (DIVD) (KSS) <sup>4</sup>	
JMC 21008	SOCIAL MEDIA STRATEGIES	
LIS 30010	INFORMATION FLUENCY IN THE WORKPLACE AND BEYOND	
UXD 20001	INTRODUCTION TO USER EXPERIENCE DESIGN	
Kent Core Composition		6
Kent Core Mathematics and Critical Reasoning		3
Kent Core Humanities and Fine Arts		9
Kent Core Social Sciences (must be from two disciplines) <sup>5</sup>		6
Kent Core Basic Sciences (must include a lab)		6-7
Kent Core Additional <sup>5</sup>		3
General Electives (total credit hours depends on earning 120 credit hours, including 39 upper-division credit hours)		1
Minimum Total Credit Hours:		120

- <sup>1</sup> A minimum C grade must be earned to fulfill the writing-intensive requirement.
- <sup>2</sup> Courses taken as VCD Specialization Electives may not also count toward VCD Additional Electives.
- <sup>3</sup> A maximum of 6 credit hours of VCD 43051 may be applied toward the VCD Additional Electives.
- <sup>4</sup> Can choose COMM 15000 or JMC 20001 here if NOT already taken above.
- <sup>5</sup> If JMC 20001 is taken above, 3 hours of Kent Core Social Sciences and 6 hours of Kent Core Additional is required. If COMM 15000 is taken above, 6 hours of Kent Core Social Sciences and 3 hours of Kent Core Additional is required.

## Graduation Requirements

Minimum Major GPA	Minimum Overall GPA
2.700	2.000

- Any Visual Communication Design (VCD) course taken is calculated in the major GPA.
- A minimum B- grade may be required in some courses.

## Progression Requirements

- Students must receive a minimum B- in VCD 13001 before enrolling in VCD 23001. VCD 13001 may be taken a maximum three times until a minimum B- grade is achieved.
- Students must receive a minimum B- in VCD 23001 before enrolling in VCD 33000.
- Students must maintain a 2.500 major GPA in order to continue taking VCD courses. Failure to do so at the end of one semester will result in a written warning with the option of repeating certain VCD courses in order to meet minimum grade and GPA requirements to continue. Failure to do so at the end of two consecutive semesters will result in not being permitted to enroll in VCD courses. Students in this situation will be contacted by an academic advisor to create an alternative plan of study with a new major.



## Roadmap

This roadmap is a recommended semester-by-semester plan of study for this major. However, courses designated as critical (!) must be completed in the semester listed to ensure a timely graduation.

Semester One		Credits
!	VCD 13000 DESIGN: PRINCIPLES, PROCESSES AND PRACTICE	3
!	VCD 13001 INTRODUCTION TO VISUAL COMMUNICATION DESIGN STUDIO	3
	UC 10097 DESTINATION KENT STATE: FIRST YEAR EXPERIENCE	1
	Kent Core Requirement	3
	Kent Core Requirement	3
	Kent Core Requirement	3
Credit Hours		16
Semester Two		Credits
	COMM 15000 INTRODUCTION TO HUMAN COMMUNICATION (KADL) or JMC 20001 or MEDIA, POWER AND CULTURE (DIVD) (KSS)	3
!	VCD 22000 DESIGN/ILLUSTRATION TECHNIQUES I	3
!	VCD 23001 INTRODUCTION TO TYPOGRAPHY	3
	Kent Core Requirement	3
	Kent Core Requirement	3
Credit Hours		15
Semester Three		Credits
!	VCD 20010 INTRODUCTION TO DESIGN RESEARCH	3
!	VCD 22001 DESIGN/ILLUSTRATION TECHNIQUES II	3
!	VCD 33000 GRAPHIC DESIGN I	3
	CCI Core Elective	3
	Kent Core Requirement	3
Credit Hours		15
Semester Four		Credits
!	VCD 34005 INTRODUCTION TO 3D GRAPHIC DESIGN	3
	VCD 34006 MOTION DESIGN	3
	VCD 40092 INTERNSHIP I-GRAPHIC DESIGN/ILLUSTRATION (ELR)	1
	CCI 12001 PHOTOGRAPHY	3
	Kent Core Requirement	3
Credit Hours		13
Semester Five		Credits
	VCD 33001 GRAPHIC DESIGN II	3
	VCD 34004 VISUAL ETHICS	3
	VCD 43002 TYPOGRAPHY II	3
	VCD 43001 INTERACTION DESIGN I	3
	VCD Specialization Electives	3
Credit Hours		15
Semester Six		Credits
	VCD 43003 IDENTITY SYSTEMS	3
	VCD 43101 INTERACTION DESIGN II	3
	VCD 45000 GRAPHIC DESIGN PERSPECTIVES (WIC)	3
	VCD Specialization Electives	3
	Kent Core Requirement	3
Credit Hours		15

### Third Summer Term

!	VCD 40053 GRAPHIC DESIGN STUDIO-GLYPHIX or VCD 40192 or INTERNSHIP II-GRAPHIC DESIGN/ ILLUSTRATION/PHOTOGRAPHY (ELR)	3
Credit Hours		3

### Semester Seven

	VCD Specialization Electives	3
	VCD Additional Electives	3
	Kent Core Requirement	3
	Kent Core Requirement	3
	CCI Core Elective	3
Credit Hours		15

### Semester Eight

	VCD 40035 PROFESSIONAL PORTFOLIO BFA DESIGN	3
	VCD Specialization Electives	3
	VCD Additional Electives	3
	General Electives	1
	Kent Core Requirement	3
Credit Hours		13

Minimum Total Credit Hours: 120

## Visual Communication Design - M.A.

### College of Communication and Information

School of Visual Communication Design

241 Taylor Hall

Kent Campus

330-672-7856

vcd@kent.edu

www.kent.edu/vcd

## Description

The Master of Arts degree in Visual Communication Design is recommended for students with undergraduate degrees in design or related fields who wish to advance their studio skills in print design, illustration, web design, 3-D design, motion graphics, interactive design, corporate identity, information architecture, interaction design or information graphics. The program offers individualized plans of study, experiential learning, design history and research. Interdisciplinary study is encouraged.

### Fully Offered At:

- Kent Campus

## Accreditation

National Association of Schools of Art and Design

## Admission Requirements

- Bachelor's degree from an accredited college or university for unconditional admission
- Undergraduate degree in design or closely related program for unconditional admission
- Minimum 3.000 undergraduate major GPA on a 4.000 point scale for unconditional admission
- Official transcript(s)

- Résumé
- Goal statement
- Autobiographical statement (250 words)
- Two letters of recommendation
- English language proficiency - all international students must provide proof of English language proficiency (unless they meet specific exceptions) by earning one of the following:
  - Minimum 587 TOEFL PBT score (paper-based version)
  - Minimum 94 TOEFL IBT score (Internet-based version)
  - Minimum 82 MELAB score
  - Minimum 7.0 IELTS score
  - Minimum 65 PTE score
  - Minimum 120 Duolingo English Test score

For more information about graduate admissions, please visit the Graduate Studies admission website. For more information on international admission, visit the Office of Global Education's admission website.

## Program Learning Outcomes

Graduates of this program will be able to:

1. Demonstrate an understanding of basic skills and knowledge of design processes, principles, vocabulary and history.
2. Develop a body of creative work at a level appropriate for a graduate designer/illustrator/photographer.

## Program Requirements

### Major Requirements

Code	Title	Credit Hours
<b>Major Requirements</b>		
VCD 55000	GRAPHIC DESIGN PERSPECTIVES	3
VCD 60010	DESIGN RESEARCH METHODS	3
VCD 60011	TYPOGRAPHIC STRUCTURES AND SYSTEMS	3
VCD 60012	CONCEPT DEVELOPMENT AND IMPLEMENTATION	3
VCD 60013	GRAPHIC DESIGN ADVANCED	3
VCD 60099	M.A. PROJECT GRAPHIC DESIGN AND ILLUSTRATION	4
UXD 60001	USER EXPERIENCE DESIGN PRINCIPLES AND CONCEPTS	3
Visual Communication Design (VCD) Studio Electives		9
Minimum Total Credit Hours:		31

## Visual Communication Design - M.F.A.

### College of Communication and Information

School of Visual Communication Design

241 Taylor Hall

Kent Campus

330-672-7856

vcd@kent.edu

www.kent.edu/vcd

## Description

The Master of Fine Arts degree in Visual Communication Design is a terminal degree and recommended for students with undergraduate degrees in design or related fields who wish to enter a career in higher education instruction as well as to advance their studio skills in one or more of the following: print design, illustration, web design, 3-D design, motion graphics, interactive design, corporate identity, information architecture, interaction design or information graphics. The degree program offers graduate teaching and research assistantships, individual plans of study, experiential learning, design history and research. Interdisciplinary study is encouraged.

### Fully Offered At:

- Kent Campus

## Accreditation

National Association of Schools of Art and Design

## Admission Requirements

- Bachelor's degree from an accredited college or university for unconditional admission
- Undergraduate degree in design or closely related program for unconditional admission
- Minimum 3.000 undergraduate major GPA on a 4.000 point scale for unconditional admission
- Official transcript(s)
- Résumé
- Goal statement
- Autobiographical statement (250 words)
- Portfolio<sup>1</sup>
- Three letters of recommendation
- English language proficiency - all international students must provide proof of English language proficiency (unless they meet specific exceptions) by earning one of the following:
  - Minimum 587 TOEFL PBT score (paper-based version)
  - Minimum 94 TOEFL IBT score (Internet-based version)
  - Minimum 82 MELAB score
  - Minimum 7.0 IELTS score
  - Minimum 65 PTE score
  - Minimum 120 Duolingo English Test score

For more information about graduate admissions, please visit the Graduate Studies admission website. For more information on international admission, visit the Office of Global Education's admission website.

<sup>1</sup> For applicants without a visual communication design undergraduate degree, a portfolio may be defined as any creative, problem-solving endeavor. It may include drawing, painting, illustration, photography, web related solutions, interactions, writing or other types of solutions not listed here.

## Program Learning Outcomes

Graduates of this program will be able to:

1. Develop a body of creative work at a level appropriate for a graduate designer/illustrator/photographer.

## Program Requirements

### Major Requirements

Code	Title	Credit Hours
<b>Major Requirements</b>		
VCD 60009	CANDIDACY REVIEW/GRAPHIC DESIGN AND ILLUSTRATION <sup>1</sup>	1
VCD 60020	GRADUATE STUDIO IN VISUAL COMMUNICATION DESIGN	3
VCD 60091	GRADUATE SEMINAR IN VISUAL COMMUNICATION DESIGN	3
VCD 60094	COLLEGE TEACHING IN VISUAL COMMUNICATION DESIGN	3
VCD 69199	M.F.A. THESIS I <sup>2</sup>	6
Personal Focus		44
Minimum Total Credit Hours:		60

<sup>1</sup> Successful completion of VCD 60009 is a requirement in every School of Visual Communication Design graduate program for both M.A. and M.F.A. students after the first semester or 12 credit hours of course completion. Successful completion of the examination designates the student as a candidate for the degree.

<sup>2</sup> The thesis is a significant project or body of work done independently of other coursework. Students are expected to demonstrate the ability to conduct research or produce an original project in a discriminating and disciplined manner. The thesis topic should be one that will further the student's knowledge and ability in the specialty by demonstrating skill as a researcher or professional designer/illustrator. The outcome should be an effort that serves as a foundation for the pursuit of independent work when the graduate program is completed. At this stage, students are expected to work in close consultation with their thesis advisor.

### Graduation Requirements

- The Master of Fine Arts program requires the successful completion of 60 credit hours of graduate credit and requires a thesis.
- The final examination is at the completion of the studio or research thesis. The final examination is the presentation and defense of the thesis and is also an examination of the graduate student's general comprehension of visual communication design. Graduate students are expected to follow the university schedule of deadlines for taking the final examination and presenting thesis materials.

## College of Education, Health and Human Services

### College of Education Health and Human Services

408 White Hall  
Kent Campus  
330-672-2202  
ehhsdean@kent.edu  
www.kent.edu/ehhs

### Academic Advising Offices

Undergraduate  
Vacca Office of Student Services  
304 White Hall  
330-672-2862  
oss@kent.edu  
www.kent.edu/ehhs/services/voss

Graduate Student Services  
418 White Hall  
330-672-2576  
ogs@kent.edu  
Web: www.kent.edu/ehhs/ogs

### Description

The mission of the College of Education, Health and Human Services is to create and advance knowledge as it educates professionals who enhance health and well-being and enable learning across the lifespan.

The college offers more than two dozen distinctive programs that lead to the degrees of Bachelor of Science, Bachelor of Science in Education, Master of Arts, Master of Arts in Teaching, Master of Education, Educational Specialist and Doctor of Philosophy.

### Departments and Schools

- School of Foundations, Leadership and Administration
- School of Health Sciences
- School of Lifespan Development and Educational Sciences
- School of Teaching, Learning and Curriculum Studies

### Undergraduate Programs

- American Sign Language/English Interpreting - B.S.
- Athletic Training - B.S.
- Career and Community Studies - non-degree
- Career and Community Studies-College Preparation (Non-degree)
- Career and Community Studies-Employment Readiness (Non-degree)
- Community Health Education - B.S.
- Early Childhood Education - B.S.E.
- Earth Science - B.S.E.
- Educational Studies - B.S.
- Exercise Science - B.S.
- Hospitality Management - B.S.
- Human Development and Family Studies - B.S.
- Integrated Health Studies - B.S.
- Integrated Language Arts - B.S.E.
- Integrated Mathematics -B.S.E.
- Integrated Science - B.S.E.
- Integrated Social Studies - B.S.E.
- Life Science - B.S.E.
- Life Science/Chemistry - B.S.E.
- Long-Term Care Administration - B.S.
- Middle Childhood Education - B.S.E.
- Nutrition - B.S.
- Physical Education and Sport Performance - B.S.
- Physical Science - B.S.E.

- Recreation, Park and Tourism Management - B.S.
- School Health Education - B.S.E.
- Special Education - B.S.E.
- Speech Pathology and Audiology - B.S.
- Sport Administration - B.S.
- Sports Medicine - B.S.

## Minors

- Athletic Coaching
- Autism Spectrum Disorders
- Community Health Education
- Disability Studies and Community Inclusion
- Early Intervention
- Education
- Event Planning
- Gerontology
- Hospitality Management
- Human Development and Family Studies
- Human Sexuality
- Mild to Moderate Special Education
- Nonprofit Studies
- Park Management
- Recreation Management
- Sport Administration
- Sport, Exercise and Performance Psychology
- Sports Medicine
- Tourism Management

## Graduate Programs

- Athletic Training - M.S.
- Audiology - M.A.
- Audiology - Au.D.
- Audiology - Ph.D.
- Career - Technical Teacher Education - M.Ed.
- Clinical Mental Health Counseling - M.Ed.
- Clinical Rehabilitation Counseling - M.Ed.
- Counseling - Ed.S.
- Counselor Education and Supervision - Ph.D.
- Cultural Foundations - M.A.
- Cultural Foundations - M.Ed.
- Cultural Foundations - Ph.D.
- Curriculum and Instruction - M.Ed.
- Curriculum and Instruction - Ed.S.
- Curriculum and Instruction - Ph.D.
- Early Childhood Education - M.A.T.
- Early Childhood Education - M.Ed.
- Educational Leadership K-12 - M.Ed.
- Educational Leadership K-12 - Ed.S.
- Educational Leadership K-12 - Ph.D.
- Educational Psychology - M.A.
- Educational Psychology - M.Ed.
- Educational Psychology - Ph.D.

- Educational Technology - M.Ed.
- Evaluation and Measurement - M.Ed.
- Evaluation and Measurement - Ph.D.
- Exercise Physiology - M.S.
- Exercise Physiology - Ph.D.
- Health Education and Promotion - M.Ed.
- Health Education and Promotion - Ph.D.
- Higher Education Administration - Ph.D.
- Higher Education Administration and Student Affairs - Ed.S.
- Higher Education Administration and Student Affairs - M.Ed.
- Hospitality and Tourism Management - M.S.
- Human Development and Family Studies - M.A.
- Interprofessional Leadership - Ed.D.
- Nutrition - M.S.
- Reading Specialization - M.Ed.
- School Counseling - M.Ed.
- School Psychology - M.Ed.
- School Psychology - Ed.S.
- School Psychology - Ph.D.
- Secondary Education - M.A.T.
- Special Education - M.Ed.
- Special Education - Ed.S.
- Special Education - Ph.D.
- Speech Language Pathology - M.A.
- Speech Language Pathology - Ph.D.
- Sport Administration - M.A.

## Certificates

### Undergraduate Certificates

- Addictions Counseling
- Alcohol, Tobacco and Other Drug Prevention
- Career-Technical Teacher Education
- Deaf Education Multiple Disabilities

### Graduate Certificates

- Addictions Counseling
- Autism Spectrum Disorders
- Behavioral Intervention Specialist
- Career and Academic Advising
- Career-Technical Teacher Education
- College Teaching
- Community College Leadership
- Deaf Education Multiple Disabilities
- Disability Studies and Community Inclusion
- Early Childhood Deaf Education
- Early Intervention
- Gerontology
- Institutional Research and Assessment
- Internationalization of Higher Education
- Nursing Home Administration
- Ohio Superintendent's Licensure

- Online and Blended Learning
- Qualitative Research

## Licensure/Endorsement Programs - Non-Degree

### Undergraduate

- Early Childhood Generalist (Grades 4-5) Endorsement Preparation
- Middle Childhood Generalist Science (4-6) Endorsement Preparation
- Middle Childhood Generalist Social Studies (4-6) Endorsement Preparation

### Graduate

- Adapted Physical Education Endorsement Preparation
- American Sign Language/English Interpreting Licensure Preparation
- Career-Based Intervention Endorsement Preparation
- Computer Science Endorsement Preparation
- Computer Technology Endorsement Preparation
- Early Childhood Education (PK-3) Additional Licensure Preparation
- Early Childhood Education Pre-Kindergarten (3-5 years) Endorsement Preparation
- Early Childhood Generalist (Grades 4-5) Endorsement Preparation - graduate
- Gifted Education Endorsement Preparation
- Integrated Language Arts Additional Licensure Preparation
- Integrated Mathematics Additional Licensure Preparation
- Integrated Science Additional Licensure Preparation
- Integrated Social Studies Additional Licensure Preparation
- Middle Childhood Education (4-9) Language Arts/Reading and Mathematics Initial Licensure Preparation
- Middle Childhood Education (4-9) Language Arts/Reading and Science Initial Licensure Preparation
- Middle Childhood Education (4-9) Mathematics and Science Initial Licensure Preparation
- Middle Childhood Education (4-9) Mathematics and Social Studies Initial Licensure Preparation
- Middle Childhood Education (4-9) Social Studies and Language Arts/Reading Initial Licensure Preparation
- Middle Childhood Education (4-9) Social Studies and Science Initial Licensure Preparation
- Middle Childhood Education—Language Arts and Reading (4-9) Additional Licensure Preparation
- Middle Childhood Education—Mathematics (4-9) Additional Licensure Preparation
- Middle Childhood Education—Science (4-9) Additional Licensure Preparation
- Middle Childhood Education—Social Studies (4-9) Additional Licensure Preparation
- Principal Grades 4-9 Licensure Preparation
- Principal Grades 5-12 Licensure Preparation
- Principal Grades PK-6 Licensure Preparation
- School Health Education (P-12) Additional Licensure Preparation
- Special Education Deaf Education Additional Licensure Preparation
- Special Education Deaf Education Initial Licensure Preparation

- Special Education Early Childhood (PK-5) Additional Licensure Preparation
- Special Education Early Childhood (PK-5) Initial Licensure Preparation
- Special Education Mild/Moderate Needs Additional Licensure Preparation
- Special Education Mild/Moderate Needs Initial Licensure Preparation
- Special Education Moderate/Intensive Needs Additional Licensure Preparation
- Special Education Moderate/Intensive Needs Initial Licensure Preparation
- Special Education Pre-K Special Needs Endorsement Preparation
- Special Education Transition-to-Work Endorsement Preparation

## College Policies

### College of Education, Health and Human Services Faculty

#### School of Foundations, Leadership and Administration Faculty

- Boske, Christa A. (2008), Associate Professor, Ed.D., Northern Illinois University, 2006
- Chuang, Ning Kuang (2005), Associate Professor, Ph.D., Texas Tech University, 2005
- Clark, Debra L. (1995), Associate Professor, Ph.D., Kent State University, 2003
- Damrow, Amy (2014), Assistant Professor, Ph.D., Michigan State University, 2011
- Devine, Mary Ann (1997), Professor, Ed.D., University of Georgia, 1997
- Eckert, Erica L. (1998), Assistant Professor & Assistant Dean, Ph.D., Kent State University, 2012
- Eith, Andrew S. (2014), Lecturer, New England Culinary Institute, 2013
- Gonzalez, Gloria L. (1998), Assistant Professor & Academic Program Director, Ph.D., University of Iowa, 1994
- Gornik, Rosemary (2003), Assistant Professor, Ph.D., Kent State University, 2003
- Guivernau, Marta (2007), Assistant Professor, Ph.D., Purdue University, 1999
- Hamilton, Anthony J. (2017), Associate Lecturer
- Hoegler, Edward M. (2008), Associate Lecturer, M.S., Johnson & Wales University, 1994
- Hudson, Tara D. (2017), Assistant Professor, Ph.D., North Carolina State, 2015
- Israeli, Aviad A. (2012), Associate Professor, Ph.D., Kent State University, 1997
- Karpinski, Aryn C. (2010), Assistant Professor, Ph.D., The Ohio State University, 2010
- Kosmidis, Aryn C. (2010), Associate Professor
- Kretovics, Mark A. (2001), Associate Professor, Ph.D., Colorado State University, 1998
- Lee, Seon Jeong (2014), Assistant Professor, Ph.D., University of Massachusetts, Amherst, 2014
- Lee, Kiwon (2017), Assistant Professor, Ph.D., Penn State University, 2013
- Lepp, Andrew P. (2004), Professor, Ph.D., University of Florida, 2004



- Levinson, Natasha (1997), Associate Professor, Ph.D., University of Illinois, Urbana-Champaign, 2001
- Li, Jian (2012), Associate Professor, Ph.D., The Ohio State University, 2012
- Lyberger, Mark R. (1996), Associate Professor, Ph.D., The Ohio State University, 1996
- Merrill, Martha C. (2008), Associate Professor, Ph.D., University of Michigan, Ann Arbor, 1982
- Mulrooney, Aaron L. (1992), Associate Professor, J.D., University of Akron, 1990
- Niesz-Kutsch, Tricia (2004), Associate Professor, Ph.D., University of Pennsylvania, 2003
- Parr, Mary G. (1992), Associate Professor, Ph.D., University of Illinois-Urbana, Champaign, 1992
- Pasquarella, Deborah S. (2019), Associate Lecturer, M.Ed., Colorado State University, 1988
- Porter, Christa J. (2017), Assistant Professor, Ph.D., University of Georgia, 2013
- Schenker, Jason D. (2000), Associate Professor, Ph.D., Kent State University, 2007
- Schimmel, Kimberly S. (1995), Professor & School Director, Ph.D., University of North Carolina-Greensboro, 1994
- Seeberg, Vilma (1989), Associate Professor
- Siler, Greta Y. (2004), Associate Lecturer, M.S., Kent State University, 2007
- Thomas, Stephen B. (1985), Professor, Ed.D., University of Florida, 1974
- Ulicney, Mandy L. (2010), Associate Lecturer, M.S., Kent State University, 2011
- Walton-Fisette, Theresa A. (2003), Professor, Ph.D., University of Iowa, 2002
- Wang, Philip C. (1990), Associate Professor, Ph.D., Pennsylvania State University, 1991
- Yim, Hyong Il (2015), Assistant Professor, Ph.D., University of Georgia, 2015
- Burzminski, Nancy H. (2001), Associate Professor, Ph.D., Saint Mary's University, 2003
- Caine-Bish, Natalie L. (1997), Associate Professor, Ph.D., Kent State University, 2002
- Ding, Kele (2005), Associate Professor, Ph.D., Indiana University-Bloomington, 2000
- Durant, Kathleen M. (2019), Assistant Professor
- Evans, Na'Tasha (2017), Assistant Professor, Ph.D., University of Toledo, 2016
- Falcone, Tanya R. (2007), Associate Lecturer, M.S., Kent State University, 2009
- Forbes, Myrna A. (1998), Associate Lecturer, Au.D., University of Florida, 2005
- Glickman, Ellen L. (1995), Professor & School Director, Ph.D., University of Pittsburgh, 1988
- Gordon, Karen L. (1988), Associate Professor, Ph.D., University of Illinois, Urbana-Champaign, 1988
- Grogan-Johnson, Susan L. (1988), Associate Professor, Ph.D., Kent State University, 1993
- Ha, Eun-Jeong (2004), Associate Professor, Ph.D., The Ohio State University, 1999
- Hale, Catherine C. (2000), Associate Lecturer, M.S., Indiana University, Bloomington, 1995
- Harnar, Hannah M. (2011), Assistant Professor, M.S., Kent State University, 2013
- Hawks, John W. (1991), Associate Professor, Ph.D., Washington University in St. Louis, 1990
- Huston, Jeffery L. (2007), Professor, Ed.D., Capella University, 2017
- Huyck, Julia J. (2013), Assistant Professor, Ph.D., Northwestern University, 2010
- Jajtner, Adam (2016), Assistant Professor, Ph.D., University of Central Florida, 2016
- Jonas, Jay C. (2006), Professor, M.Ed., University of Virginia, 1998
- Kerr, Dianne L. (1988), Professor, Ph.D., The Ohio State University, 1992
- Kingsley, James D. (2013), Associate Professor, Ph.D., Florida State University, 2009
- Kolonich, Erin M. (2017), Lecturer
- Krumm, Mark P. (2005), Associate Professor, Ph.D., Wichita State University, 1990
- Malone, Megan (2012), Associate Lecturer, M.A., Case Western Reserve University, 2000
- Matthews, Jamie C. (2014), Lecturer, M.S., Kent State University, 2004
- McDaniel, John (2011), Assistant Professor, Ph.D., University of Utah, 2009
- Miracle, Amy L. (2012), Assistant Professor, Ph.D., University of Nevada-Las Vegas, 2013
- Mussoi, Bruna (2017), Assistant Professor, Ph.D., University of Iowa, 2016
- O'Flannigan, Cara M. (2016), Lecturer, M.A., Case Western Reserve University, 2007
- Peer, Kimberly S. (1999), Professor, Ed.D., University of Akron, 2001
- Ray-Tomasek, Jennifer L. (1998), Assistant Professor, Ph.D., Kent State University, 2004
- Ridgel, Angela L. (2008), Associate Professor, Sc.D., Marshall University, 2000

## School of Health Sciences Faculty

- Arnold, Hayley S. (2010), Associate Professor, Ph.D., Vanderbilt University, 2007
- Audet, Lisa R. (1995), Assistant Professor, Ph.D., Kent State University, 2000
- Axiotis, Irene R. (1985), Professor, Ph.D., Kent State University, 1996
- Backus, Angela S. (2003), Associate Professor, Ph.D., Kent State University, 2010
- Baker, Emily A. (2012), Lecturer, M.S., Case Western Reserve, 2001
- Barikoo, Ali (2017), Assistant Professor, Ph.D., University of Florida, 2017
- Barkley, Jacob E. (2006), Professor, Ph.D., University at Buffalo, SUNY, 2007
- Berk, Lynn V. (2008), Associate Lecturer, M.A., Cleveland State University, 1981
- Bernert, Donna J. (2007), Assistant Professor, Ph.D., Southern Illinois University, 2005
- Blakely-Adams, Carmen M. (2007), Associate Lecturer, M.Ed., Cleveland State University, 2004
- Burke, Amanda J. (2000), Assistant Professor, Ph.D., Kent State University, 2015

- Roche, Jennifer M. (2014), Assistant Professor, Ph.D., University of Memphis, 2011
- Sharp, David E. (2015), Assistant Professor, Ph.D., Cornell University, 2015
- Tribuzi, Scot B. (2006), Professor, Ph.D., Kent State University, 2015
- Vaughn, Amy L. (2012), Lecturer, M.A., Case Western Reserve University, 1995
- Visker, Jennifer N. (2016), Lecturer, M.A., Case Western Reserve University, 2001
- Wagner, Laurie M. (1997), Assistant Professor, Ph.D., Kent State University, 2008
- Hines, Laurie A. (2000), Assistant Professor, Ph.D., Indiana University, Bloomington, 2000
- Jencius, Martin J. (2000), Associate Professor, Ph.D., University of South Carolina, 1996
- Kenyon, Cynthia (2009), Lecturer, M.Ed., Kent State University, 2010
- Kritzer, Karen (2007), Associate Professor, Ph.D., University of Pittsburgh, 2007
- Leslie, Mykal J. (2014), Assistant Professor
- Liou, Chih-Ling (2014), Assistant Professor, Ph.D., Virginia Polytechnic Institute and State University, 2011
- Luft, Pamela J. (1995), Professor, Ph.D., University of Illinois-Urbana-Champaign, 1995
- McCartney, Jamie L. (2007), Assistant Professor, Ph.D., University of Akron, 2004
- McGlothlin, Jason M. (2000), Associate Professor, Ph.D., Ohio University, 2001
- McWilliams-Woods, Wendy (1984), Assistant Professor, M.Ed., Kent State University, 1988
- Moore, Alma J. (2012), Lecturer, M.Ed., Malone University, 2004
- Morris, Bradley J. (2012), Associate Professor, Ph.D., The Ohio State University, 1998
- Morsefield, Rebecca H. (1998), Associate Lecturer, M.Ed., Kent State University, 1997
- Osborn, Cynthia J. (1997), Professor, Ph.D., Ohio University, 1996
- Page, Betsy J. (1996), Associate Professor, Ed.D., University of Maine, 1996
- Pieper, Alicia (1969), Assistant Professor, M.A., Kent State University, 1968
- Rainey, John S. (2002), Assistant Professor, Ph.D., Texas A&M University, 2001
- Rumrill, Phillip D. (1996), Professor, Ph.D., University of Arkansas, 1983
- Sansosti, Frank J. (2006), Professor, Ph.D., University of South Florida, 2005
- Smith, Gregory C. (2001), Professor, Ph.D., University of Rochester, 1983
- Stevenson, Nathan (2015), Assistant Professor, Ph.D., Michigan State University, 2015
- Storlie, Cassandra A. (2013), Associate Professor, Ph.D., University of Iowa, 2013
- Tankersley, Melody J. (1993), Professor & Interim Senior Vice President & Provost, Ph.D., University of Virginia, 1992
- Tobias, Scott A. (2009), Associate Professor, D.Sci., University of Missouri, 2009
- Toepfer, Steven M. (2004), Associate Professor, Ph.D., The Ohio State University, 2001
- Unger, Darlene D. (2016), Professor, Ph.D., Virginia Commonwealth University, 2001
- Walker, Kathleen K. (2002), Associate Professor, Ph.D., Kansas State University, 2002
- Waugh, Jennifer A. (2012), Assistant Professor
- Wiley, Andrew L. (2008), Associate Professor, Ed.D., University of Virginia, 2008
- Wisdom, Sonya L. (2012), Associate Professor, Ph.D., Kent State University, 2010
- Zhang, Jing (2018), Assistant Professor

## School of Lifespan Development and Educational Sciences Faculty

- Albritton, Kizzy (2015), Assistant Professor, Ph.D., Georgia State University, 2014
- Alexander, Donna C. (2008), Lecturer, M.B.A., Ashland University, 2004
- Anhalt, Karla (2003), Professor, Ph.D., West Virginia University, 2000
- Balan, Christine M. (1986), Professor, Ph.D., Kent State University, 1994
- Barber, Brian R. (2013), Assistant Professor, Ph.D., Kent State University, 2014
- Bedesem, Pena L. (2010), Associate Professor, Ph.D., University of Central Florida, 2010
- Bergh, Kathleen A. (2000), Senior Lecturer, M.Ed., University of Akron, 1985
- Blankemeyer, Maureen S. (1996), Associate Professor, Ph.D., Oklahoma State University, 1996
- Burgess, Sloane R. (2008), Associate Professor, Ph.D., Case Western Reserve University, 2007
- Byrd, Janice (2017), Assistant Professor, Ph.D., University of Iowa, 2016
- Chen, Ching-I (2014), Assistant Professor
- Cichy, Kelly E. (2008), Associate Professor, Ph.D., Pennsylvania State University, 2007
- Cimera, Robert E. (2007), Professor, Ph.D., University of Illinois-Urbana, Champaign, 1998
- Cowan, Richard J. (2003), Associate Professor, Ph.D., University of Nebraska, 2003
- Cox, Jane A. (2007), Associate Professor, Ph.D., Kent State University, 1997
- Cureton, Jenny (2016), Assistant Professor, Ph.D., University of Northern Colorado, 2016
- Dellmann-Jenkins, Mary M. (1981), Professor & School Director, Ph.D., University of Wisconsin-Madison, 1982
- Ferdig, Richard E. (2009), Professor, Ph.D., Michigan State University, 2000
- Geething, Kathy J. (2001), Lecturer
- Godwin-Inaba, Karrie (2016), Assistant Professor, Ph.D., Carnegie Mellon, 2015
- Guillot-Miller, Lynne M. (2003), Associate Professor, Ph.D., University of New Orleans, 2003
- Hallaman, Lisa M. (2007), Senior Lecturer, M.A., Kent State University, 1996
- Harjusola-Webb, Sanna M. (2006), Associate Professor, Ph.D., University of Kansas, 2006

## School of Teaching, Learning and Curriculum Studies Faculty

- Bedrosian, Wendlyn K. (1998), Assistant Professor, Ph.D., Kent State University, 2004
- Bintz, William P. (2004), Professor
- Borgerding, Lisa (2007), Associate Professor, Ph.D., Indiana University, Bloomington, 2007
- Caniglia, Joanne C. (2008), Associate Professor, Ph.D., Kent State University, 1994
- Courtney, Scott A. (2010), Associate Professor, Ph.D., Arizona State University, 2010
- Crowe, Alicia R. (2001), Professor & Associate Dean, Ph.D., Vanderbilt University, 2001
- Dever, Robin M. (2007), Associate Professor
- Dowdy, Joanne K. (2001), Professor, Ph.D., University of North Carolina, Chapel Hill, 1997
- Eckert, Kevin (2015), Lecturer, M.Ed., Kent State University, 2017
- Ellison, Douglas (2017), Assistant Professor, Ph.D., University of Illinois, Urbana, 2016
- Froehlich, Larry G. (2002), Associate Professor, Ed.D., West Virginia University, 1984
- Gandolfi, Enrico (2015), Assistant Professor
- Gershon, Walter S. (2006), Associate Professor, Ph.D., University of California, Riverside, 2007
- Gorecki, Jennifer J. (2011), Assistant Professor, Ph.D., University of South Carolina, 2000
- Gruhler, Danielle M. (1999), Associate Professor, Ph.D., Kent State University, 2004
- Hawley, Todd (2008), Associate Professor, Ph.D., University of Georgia, 2008
- Heron, Michele L. (2004), Assistant Professor, Ph.D., Kent State University, 2010
- Hollstein, Matthew S. (2015), Assistant Professor, Ph.D., Ohio University, 2015
- Hostler, Rochelle (2008), Lecturer, Pacific Oaks College, 2004
- Hutchins, Pamela K. (1993), Associate Lecturer, M.Ed., Kent State University, 1992
- Irving, Sonya E. (2013), Assistant Professor, Ph.D., University of Illinois, Urbana, Champaign, 2014
- Kenyon, Elizabeth (2015), Assistant Professor, Ph.D., Michigan State University, 2015
- Kidder, Melanie K. (1995), Associate Lecturer, M.A., California State University-San Marcos, 2004
- Kim, Insook (2012), Associate Professor, Ph.D., The Ohio State University, 2011
- Knapp, Kathryn A. (2007), Assistant Professor, Ph.D., Kent State University, 2013
- Kosko, Karl W. (2012), Associate Professor, Ph.D., Virginia Polytechnic Institute and State University, 2010
- Kroeger, Janice (2002), Associate Professor, Ph.D., University of Wisconsin, Madison, 2003
- Kuo, Chia-Ling (2005), Associate Professor, Ph.D., Ohio University, 2005
- Lampe, Jennifer K.
- Lash, Martha J. (2003), Associate Professor, M.S., Indiana University, Bloomington, 2004
- Levicky, Michael T. (2008), Lecturer, M.Ed., Kent State University, 2010
- Miller-Marsh, Monica A. (2012), Associate Professor, Ph.D., University of Wisconsin, Madison, 1997
- Mitchell, Stephen A. (1992), Associate Professor & Associate Dean, Ph.D., Syracuse University, 1992
- Monobe, Gumiko (2010), Associate Professor
- Morgan, Denise N. (2004), Professor
- Mulvey, Bridget K. (2012), Associate Professor, Ph.D., University of Virginia, Main Campus, 2012
- Mupinga, Davison M. (2008), Associate Professor, Ph.D., Louisiana State University-Baton Rouge, 1999
- Myers, Casey Y. (2009), Assistant Professor, Ph.D., Kent State University, 2015
- Navy, Shannon L. (2017), Assistant Professor, Ph.D., University of Georgia, 2014
- Novak, Elena (2015), Associate Professor, Ph.D., Florida State University, 2012
- Nurnberger-Haag, Julie (2015), Assistant Professor, Ph.D., Michigan State University, 2015
- O'Connor, Patrick J. (1988), Associate Professor, Ed.D., Virginia Polytechnic Institute and State University, 1982
- Pech, Sandra, Associate Professor
- Pytash, Kristine E. (2006), Associate Professor, Ph.D., Kent State University, 2009
- Rasinski, Timothy V. (1988), Professor, Ph.D., Iowa State University, 2005
- Raven, Sara P. (2013), Assistant Professor, Ph.D., University of Georgia, 2013
- Sandmann, Alexa L. (2004), Professor & School Director, Ed.D., University of Cincinnati, 1990
- Stoll, Julia A. (2000), Associate Professor, Ph.D., Kent State University, 2015
- Testa, Elizabeth A. (2013), Associate Professor, Ph.D., University of Akron, 2014
- Turner, Steven L. (2005), Associate Professor, Ph.D., University of Virginia, Main Campus, 2005
- Walton-Fisette, Jennifer L. (2008), Associate Professor & Director, Ed.D., University of Massachusetts-Amherst, 2008
- Wang, Jiahui (2018), Assistant Professor
- Wilfong, Lori G. (2002), Associate Professor, Ph.D., Kent State University, 2006
- Zimmerman, Belinda S. (1992), Associate Professor, Ph.D., Kent State University, 2003

## College of Education, Health and Human Services

### Education, Health and Human Services (EHHS)

#### **EHHS 10095 SPECIAL TOPICS IN EDUCATION, HEALTH AND HUMAN SERVICES 1-4 Credit Hours**

(Repeatable for credit) Selected topics intended to encourage interdisciplinary study to cover areas not treated adequately in traditional coursework and to make available promptly the new and significant experience of faculty within the College of Education, Health and Human Services.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 1-4 lecture

**Grade Mode:** Standard Letter

#### **EHHS 10729 ACHIEVING ACADEMIC SUCCESS 1 Credit Hour**

The purpose of this course is to help students who are on academic probation to develop and apply critical thinking skills, and continue to clarify their purpose, meaning, and direction. The goal of this course is to help students improve their academic standing as quickly as possible.

**Prerequisite:** Any major in the College of Education, Health and Human Services (EHHS).

**Schedule Type:** Lecture

**Contact Hours:** 1 lecture

**Grade Mode:** Standard Letter

#### **EHHS 12017 EXPLORING PROFESSIONAL LITERACY PRACTICES 3 Credit Hours**

Students will explore and develop the literacy practices necessary for success in college and careers in education, health and human services.

**Prerequisite:** Special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

#### **EHHS 20092 PRACTICAL EXPERIENCE IN EDUCATION, HEALTH AND HUMAN SERVICES (ELR) 1-12 Credit Hours**

(Repeatable for credit) Supervised work experiences that are integrated with academic instruction and related to student's occupational goal.

**Prerequisite:** Special approval.

**Schedule Type:** Practical Experience

**Contact Hours:** 3-36 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**Attributes:** Experiential Learning Requirement

#### **EHHS 40092 PRACTICAL EXPERIENCE IN EDUCATION, HEALTH AND HUMAN SERVICES (ELR) 1-6 Credit Hours**

Supervised work experiences that are integrated with academic instruction and related to student's occupational goal.

**Prerequisite:** Special approval.

**Schedule Type:** Practical Experience

**Contact Hours:** 3-18 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**Attributes:** Experiential Learning Requirement

#### **EHHS 49592 STUDENT TEACHING IN HEALTH AND PHYSICAL EDUCATION (ELR) 10 Credit Hours**

Full-time student teaching, which includes a balanced experience in elementary and secondary health and physical education. Students are required to complete Bureau of Criminal Investigation and Identification (BCII) and Federal Bureau of Investigation (FBI) background checks and submit the results to authorized personnel at their assigned school-agency before the first day of the semester in which student teaching internship will take place. To enroll, students must have official valid certification of child safety training, approved basic life support and ALICE training presented to the campus office of clinical experience or designated faculty-staff at regional campuses.

**Prerequisite:** EPSY 29525 and ETEC 39525; and meets eligibility for student teaching.

**Corequisite:** HED 49525 and PESP 49525.

**Schedule Type:** Practical Experience

**Contact Hours:** 45 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**Attributes:** Experiential Learning Requirement

#### **EHHS 50092 PRACTICAL EXPERIENCE IN EDUCATION, HEALTH AND HUMAN SERVICES 1-6 Credit Hours**

(Repeatable for credit) Supervised work experiences that are integrated with academic instruction and related to student's occupational goal.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Practical Experience

**Contact Hours:** 3-18 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

#### **EHHS 50093 VARIABLE TOPIC WORKSHOP IN EDUCATION, HEALTH AND HUMAN SERVICES 1-3 Credit Hours**

(Repeatable for credit) Variable topics; designed to respond to specialized needs of various groups within the context of trends issues and problems in the area education, health and human services.

**Prerequisite:** Graduate standing.

**Schedule Type:** Workshop

**Contact Hours:** 1-3 lecture

**Grade Mode:** Satisfactory/Unsatisfactory-IP

#### **EHHS 75001 SYSTEMS THINKING IN PERSONAL AND PROFESSIONAL LEADERSHIP 3 Credit Hours**

The development of personal and professional leadership characteristics and traits through a self-examination and in-depth examination of the literature. Students will develop an understanding of the role leadership plays in complex systems through the application of systems thinking concepts. The course will focus on the importance of personal and professional leadership in systems thinking and organizational change.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**EHHS 75501 THEORY AND PRACTICE OF LEADERSHIP 3 Credit Hours**

Theoretical perspectives on leadership as a foundation for effective practice in a range of educational settings. Contemporary, evidence-based research will support the integration and synthesis of leadership theory in practice. Leadership theory, myths, traits, models, strategies and assessment tools for leadership will be infused for a historical and comprehensive approach to leadership as an essential construct in education.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**EHHS 75502 ETHICAL LEADERSHIP IN EDUCATION 3 Credit Hours**

Education is constantly undergoing change and ethical leadership in uncertain times is paramount. This course will discuss ethical elements of educational leadership in all settings in a case approach to connect ethical leadership theory to educational practice. It will blend ethical theory, leadership theory and case-analysis in a critical thinking based framework to position educational leaders to grapple with the complexities of contemporary ethical issues. Political, cultural, societal, organizational, and other forces on education will be evaluated through an ethical lens.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**EHHS 81099 CAPSTONE I 1-9 Credit Hours**

(Repeatable for credit) The capstone will operate as a "dissertation in practice," focusing on a problem of practice and using either action research or improvement science as a methodology. Students' research will be aligned with the needs of their organizations, useful to their organizations and intended to effect positive change in their organizations. The research will culminate in a scholarly, comprehensive paper or project that integrates knowledge attained through coursework and research. Registration of course is required in at least two semesters, first of which will be the semester in which capstone work is began, and continuing until completion of 18 credit hours.

**Prerequisite:** Doctoral standing; and special approval.

**Schedule Type:** Project or Capstone

**Contact Hours:** 1-9 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**EHHS 82099 CAPSTONE II 1-9 Credit Hours**

(Repeatable for credit) Continuation of EHHS 81099. Continuous registration required for students who have completed 18 credit hours of EHHS 81099 and until all degree requirements are met.

**Prerequisite:** Doctoral standing; and special approval.

**Schedule Type:** Project or Capstone

**Contact Hours:** 1-9 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

## School of Foundations, Leadership and Administration

### Cultural Foundations (CULT)

**CULT 20091 PREPROFESSIONAL SEMINAR IN EDUCATIONAL STUDIES 2-4 Credit Hours**

(Repeatable for credit) Introduction to the nature and scope of educational service delivery across settings, and to the social and cultural foundations of educational policies and programs. Open to any university student and to those considering alternative careers in education.

**Prerequisite:** None.

**Schedule Type:** Seminar

**Contact Hours:** 2-4 other

**Grade Mode:** Standard Letter

**CULT 29535 EDUCATION IN A DEMOCRATIC SOCIETY 3 Credit Hours**

Students utilize readings, explore themes, broadly explore purposes of school in society and what knowledge, dispositions and performances are necessary to be a successful teacher today.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** CTAG Education, TAG Education

**CULT 39539 INTRODUCTION TO THE PHILOSOPHY OF EDUCATION 3 Credit Hours**

An introduction to the philosophical analysis of educational problems focusing on the goals of education and the school's role in achieving these goals.

**Prerequisite:** Junior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CULT 39595 SPECIAL TOPICS IN CULTURAL FOUNDATIONS 2-4 Credit Hours**

(Repeatable for credit) Directed reading and/or research of special interest or need to small groups of students in cultural foundations. Planned with and directed by a faculty member.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 2-4 lecture

**Grade Mode:** Standard Letter-IP

**CULT 39596 INDIVIDUAL INVESTIGATION IN CULTURAL FOUNDATIONS 1-3 Credit Hours**

(Repeatable for credit) Directed independent reading and/or research of special interest or need in student program. Planned with and directed by a faculty member.

**Prerequisite:** Special approval.

**Schedule Type:** Individual Investigation

**Contact Hours:** 1-3 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP



**CULT 40093 VARIABLE TITLE WORKSHOP IN CULTURAL FOUNDATIONS 1-4 Credit Hours**

(Repeatable for credit) (Slashed with CULT 50093 and CULT 70093)  
Variable topics; designed to respond to specialized needs of various groups within the context of trends issues and problems in the educational foundations disciplines.

**Prerequisite:** Special approval.

**Schedule Type:** Workshop

**Contact Hours:** 1-4 other

**Grade Mode:** Satisfactory/Unsatisfactory

**CULT 49570 SOCIAL FOUNDATIONS OF MULTICULTURAL EDUCATION 3 Credit Hours**

Explores the history, social context, and issues in multicultural education (formal PK-12) in the U.S. Students gain an appreciation of the challenges of equalizing opportunity of educational achievement, an understanding that is essential for 21st century educational leadership.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CULT 50093 VARIABLE TITLE WORKSHOP IN CULTURAL FOUNDATIONS 1-4 Credit Hours**

(Repeatable for credit) (Slashed with CULT 40093 and CULT 70093)  
Offered on request of school system. Enrollment limited to teachers, administrators or supervisors who are employed in sponsoring system and who are accepted to the university.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Workshop

**Contact Hours:** 1-4 other

**Grade Mode:** Satisfactory/Unsatisfactory

**CULT 59570 SOCIAL FOUNDATIONS OF MULTICULTURAL EDUCATION 3 Credit Hours**

Explores the history, social context, and issues in multicultural education (formal PK-12) in the U.S. Students gain an appreciation of the challenges of equalizing opportunity of educational achievement, an understanding that is essential for 21st century educational leadership.

**Prerequisite:** Graduate standing.

**Schedule Type:** Seminar

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CULT 60030 SOCIAL CONTEXTS OF EDUCATION: CONTEMPORARY ISSUES AND THEORY 3 Credit Hours**

(Slashed with CULT 80030) The course will explore contemporary social contexts of education through the lenses of major sociological perspectives, including seminal theoretical works and emerging contemporary scholarship. Students will become familiar with the uses of classic and current sociological theories in order to understand contemporary educational issues.

**Prerequisite:** Graduate standing.

**Schedule Type:** Seminar

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CULT 60050 HUMANITIES-ORIENTED RESEARCH IN EDUCATION 3 Credit Hours**

(Slashed with CULT 80050) Course is designed to give students an understanding of humanities-oriented approaches to research in education. This includes disciplinary approaches to the study of education (philosophy, history, literary theory) as well as humanities oriented theoretical work in the social sciences. Students will develop facility with key concepts as well as approaches to method and research design within these approaches.

**Prerequisite:** Graduate standing.

**Schedule Type:** Seminar

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CULT 60199 THESIS I 2-6 Credit Hours**

Thesis student must register for total of 6 hours, 2 to 6 hours in a single semester distributed over several semesters if desired.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Masters Thesis

**Contact Hours:** 2-6 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**CULT 60299 THESIS II 2 Credit Hours**

Thesis students must continue registration each semester until all degree requirements are met. Graduate standing.

**Prerequisite:** CULT 60199.

**Schedule Type:** Masters Thesis

**Contact Hours:** 2 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**CULT 65530 FOUNDATIONS OF EDUCATION AND HUMAN SERVICES 3 Credit Hours**

Inquiry into the assumptions and implications of educational policies and practices in education and human service settings through the application of historical, philosophical and sociological perspectives.

**Prerequisite:** Graduate standing.

**Schedule Type:** Seminar

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CULT 69510 CLASSICS IN PHILOSOPHY OF EDUCATION 3 Credit Hours**

(Repeatable for a maximum of 6 credit hours) (Slashed with CULT 79510)  
Philosophical exploration of the relationship between education and society and the dynamics of education through close reading and discussion of a selection of influential philosophical texts.

**Prerequisite:** Graduate standing.

**Schedule Type:** Seminar

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CULT 69521 MULTICULTURAL EDUCATIONAL PRACTICE AND POLICY 3 Credit Hours**

Interdisciplinary inquiry into issues of pluralism and its influence on professional practice in education and human service settings. Cross-cultural interaction will be analyzed; reflection on developing culturally responsive professional practice.

**Prerequisite:** Graduate standing.

**Schedule Type:** Seminar

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CULT 69522 ETHICS IN PROFESSIONAL PRACTICE 3 Credit Hours**  
(Slashed with CULT 89522) An examination of ethics in schooling and other educational settings through foundational study and issue analysis; strong case study and professional application emphasis.

**Prerequisite:** Graduate standing.

**Schedule Type:** Seminar

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CULT 69530 MULTICULTURAL THEORIES AND SCHOLARSHIP IN EDUCATION 3 Credit Hours**

(Slashed with CULT 79530) An investigation of multicultural theories in education, the social sciences and humanities as articulated in the works of major scholars. Approaches to research and scholarship and contemporary issues in public discourse is explored.

**Prerequisite:** Graduate standing.

**Schedule Type:** Seminar

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CULT 69560 CONTEMPORARY PHILOSOPHY OF EDUCATION 3 Credit Hours**

(Slashed with CULT 79560) Explores a range of contemporary philosophical perspectives on the moral and political dimensions of education. Students will be introduced to the philosophical frameworks through which these questions are discussed within the field of philosophy of education and they will have opportunity to engage these debates in the course of carefully structured writing assignments.

**Prerequisite:** Graduate standing.

**Schedule Type:** Seminar

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CULT 69564 HISTORY OF AMERICAN EDUCATION 3 Credit Hours**

(Cross-listed with CULT 79564) European origins and American innovations in colonial education, rise of common school, completion of education ladder. Emphasis is on present status and recent developments.

**Prerequisite:** Graduate standing.

**Schedule Type:** Seminar

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CULT 69567 HISTORY OF HIGHER EDUCATION 3 Credit Hours**

(Slashed with CULT 79567) (Cross-listed with HIED 66600 and HIED 76600) Overview and exploration of history of higher education in the United States. Survey course covers ancient and medieval European antecedents but focuses largely on American Higher Education from the seventeenth through the 20th century. Students explore changes in student body, curricula and purposes of higher education in the U.S. in the context of American culture.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CULT 69569 INTERNATIONAL EDUCATION: FOUNDATIONAL ISSUES 3 Credit Hours**

(Slashed with CULT 79569) An introductory seminar to explore current foundational issues and challenges in education worldwide (nonformal, formal PK-advanced post-secondary education). Students gain an understanding of the socio-political, historical context of education worldwide and implications for local policy formation. An international-comparative approach connects and integrates cross-cultural literature, theoretical and research scholarship, on the impact of world dynamics on education. Students also explore the impact of education on economies and social compacts worldwide, with attention to inequalities or marginalities based on region, social status, ethnicity, race, religion, gender and disability.

**Prerequisite:** Graduate standing.

**Schedule Type:** Seminar

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CULT 69570 MULTICULTURAL EDUCATION: THEORY AND POLICY 3 Credit Hours**

(Slashed with CULT 79570) Theoretical foundations of cultural pluralism, structural marginalization processes, knowledge construction, equity pedagogy and praxis in intercultural relations, democratic change processes and policy addressing inequities in institutional practices.

**Prerequisite:** Graduate standing.

**Schedule Type:** Seminar

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CULT 69571 GLOBALIZATION AND EDUCATION 3 Credit Hours**

(Slashed with CULT 79571) A multi-disciplinary exploration of the impact of globalization/localization on the delivery and uses of education and the dynamics of power and resistance in globalized education.

**Prerequisite:** Graduate standing.

**Schedule Type:** Seminar

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CULT 69575 ANTHROPOLOGY AND EDUCATION 3 Credit Hours**

(Slashed with CULT 79575) Students explore the contributions that cultural and social anthropologists have made to the study of education broadly conceived, focusing particularly on studies addressing the interrelationships among education, culture and forms of social inequity. Through engaging in critical readings of classic and contemporary educational ethnographies, students explore the myriad ways in which 'culture' has been theoretically conceptualized as well as the implications of those conceptualizations for educational inquiry and practice.

**Prerequisite:** Graduate standing.

**Schedule Type:** Seminar

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CULT 69582 SOCIAL THEORIES IN EDUCATION 3 Credit Hours**

(Slashed with CULT 89582) This course examines both classic and contemporary social theories in education. Students will become familiar with different social theories, specifically focusing on strengths and limitations of various theoretical approaches. Students will also analyze the role social theories have had upon educational research, and examine different conceptual issues within various social theoretical traditions.

**Prerequisite:** Graduate standing.

**Schedule Type:** Seminar

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CULT 69591 SEMINAR IN CULTURAL FOUNDATIONS 1-5 Credit Hours**

(Repeatable for credit) (Slashed with CULT 89591) Variable topic seminar for advanced study of specialized topics and areas; in cultural foundations; emphasis on theory and research findings as related to educational practice.

**Prerequisite:** Graduate standing.

**Schedule Type:** Seminar

**Contact Hours:** 1-5 other

**Grade Mode:** Standard Letter

**CULT 69592 ADVANCED PRACTICUM AND INTERNSHIP IN CULTURAL FOUNDATIONS 2-6 Credit Hours**

(Repeatable for credit) (Slashed with CULT 89592) Supervised program in field setting involving application of theories, principles and methodology in cultural foundations of education; planned with and supervised by graduate faculty member.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Practical Experience

**Contact Hours:** 6-18 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**CULT 69595 SPECIAL TOPICS IN CULTURAL FOUNDATIONS 1-3 Credit Hours**

(Repeatable for credit) (Slashed with CULT 89595) Specific topic course offering in response to emerging student or program needs in cultural foundations of education.

**Prerequisite:** Graduate standing.

**Schedule Type:** Seminar

**Contact Hours:** 1-3 lecture

**Grade Mode:** Standard Letter

**CULT 69596 INDIVIDUAL INVESTIGATION IN CULTURAL FOUNDATIONS 1-3 Credit Hours**

(Repeatable for credit) (Slashed with CULT 89596) Students pursue an individual project on a specific topic in cultural foundations of education with approval and under direction of instructor.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Individual Investigation

**Contact Hours:** 1-3 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**CULT 69598 RESEARCH IN CULTURAL FOUNDATIONS 1-15 Credit Hours**

(Repeatable for credit) (Slashed with CULT 89598) Students pursue an individual research project on a specific topic in cultural foundations of education with approval and under direction of instructor.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Research

**Contact Hours:** 1-15 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**CULT 69691 VARIABLE CONTENT SEMINAR: GREAT IDEAS IN EDUCATION 3 Credit Hours**

(Repeatable for credit) (Slashed with CULT 89691) This course explores a great idea in education from multiple disciplinary perspectives (philosophical, sociological, historical) and looks at the ways in which the idea in question has shaped or could transform educational practice at multiple levels.

**Prerequisite:** Graduate standing.

**Schedule Type:** Seminar

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CULT 70093 VARIABLE TOPIC WORKSHOP IN CULTURAL FOUNDATIONS 1-4 Credit Hours**

(Repeatable for credit) (Slashed with CULT 40093 and CULT 50093) Offered on request of school system. Enrollment limited to teachers, administrators or supervisors who are employed in sponsoring system and who are accepted to the university. May be repeated once for total maximum credit of six hours.

**Prerequisite:** Doctoral standing; and special approval.

**Schedule Type:** Workshop

**Contact Hours:** 1-4 other

**Grade Mode:** Satisfactory/Unsatisfactory

**CULT 79510 CLASSICS IN PHILOSOPHY OF EDUCATION 3 Credit Hours**

(Repeatable for a maximum of 6 credit hours) (Slashed with CULT 69510) Philosophical exploration of the relationship between education and society and the dynamics of education through close reading and discussion of a selection of influential philosophical texts.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Seminar

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CULT 79530 MULTICULTURAL THEORIES AND SCHOLARSHIP IN EDUCATION 3 Credit Hours**

(Slashed with CULT 69530) An investigation of multicultural theories in education, the social sciences and humanities as articulated in the works of major scholars. Approaches to research and scholarship and contemporary issues in public discourse is explored.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Seminar

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CULT 79560 CONTEMPORARY PHILOSOPHY OF EDUCATION 3 Credit Hours**

(Slashed with CULT 69560) Explores a range of contemporary philosophical perspectives on the moral and political dimensions of education. Students will be introduced to the philosophical frameworks through which these questions are discussed within the field of philosophy of education and they will have opportunity to engage these debates in the course of carefully structured writing assignments.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Seminar

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CULT 79564 HISTORY OF AMERICAN EDUCATION 3 Credit Hours**

(Cross-listed with CULT 69564) European origins and American innovations in colonial education, rise of common school, completion of education ladder. Emphasis is on present status and recent developments.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Seminar

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CULT 79567 HISTORY OF HIGHER EDUCATION 3 Credit Hours**  
(Slashed with CULT 69567) (Cross-listed with HIED 66600 and HIED 76600) Overview and exploration of history of higher education in the United States. Survey course covers ancient and medieval European antecedents but focuses largely on American Higher Education from the seventeenth through the 20th century. Students explore changes in student body, curricula and purposes of higher education in the U.S. in the context of American culture.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CULT 79569 INTERNATIONAL EDUCATION: FOUNDATIONAL ISSUES 3 Credit Hours**

(Slashed with CULT 69569) An introductory seminar to explore current foundational issues and challenges in education worldwide (nonformal, formal PK-advanced post-secondary education). Students gain an understanding of the socio-political, historical context of education worldwide and implications for local policy formation. An international-comparative approach connects and integrates cross-cultural literature, theoretical and research scholarship, on the impact of world dynamics on education. Students also explore the impact of education on economies and social compacts worldwide, with attention to inequalities or marginalities based on region, social status, ethnicity, race, religion, gender and disability. Gaining a broad understanding of the place of education in a rapidly changing world is essential for 21st century educational leadership and the formation of constructive policies for the future of both developed and developing countries.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Seminar

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CULT 79570 MULTICULTURAL EDUCATION: THEORY AND POLICY 3 Credit Hours**

(Slashed with CULT 69570) Theoretical foundations of cultural pluralism, structural marginalization processes, knowledge construction, equity pedagogy and praxis in intercultural relations, democratic change processes and policy addressing inequities in institutional practices.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Seminar

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CULT 79571 GLOBALIZATION AND EDUCATION 3 Credit Hours**

(Cross-listed with CULT 69571) A multi-disciplinary exploration of the impact of globalization/localization on the delivery and uses of education and the dynamics of power and resistance in globalized education.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Seminar

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CULT 79575 ANTHROPOLOGY AND EDUCATION 3 Credit Hours**  
(Slashed with CULT 69575) Students explore the contributions that cultural and social anthropologists have made to the study of education broadly conceived, focusing particularly on studies addressing the interrelationships among education, culture and forms of social inequity. Through engaging in critical readings of classic and contemporary educational ethnographies, students explore the myriad ways in which 'culture' had been theoretically conceptualized, as well as the implications of those conceptualizations for educational inquiry and practice.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Seminar

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CULT 80030 SOCIAL CONTEXTS OF EDUCATION: CONTEMPORARY ISSUES AND THEORY 3 Credit Hours**

(Slashed with CULT 80030) The course will explore contemporary social contexts of education through the lenses of major sociological perspectives, including seminal theoretical works and emerging contemporary scholarship. Students will become familiar with the uses of classic and current sociological theories in order to understand contemporary educational issues.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Seminar

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CULT 80050 HUMANITIES-ORIENTED RESEARCH IN EDUCATION 3 Credit Hours**

(Slashed with CULT 60050) Course is designed to give students an understanding of humanities-oriented approaches to research in education. This includes disciplinary approaches to the study of education (philosophy, history, literary theory) as well as humanities oriented theoretical work in the social sciences. Students will develop facility with key concepts as well as approaches to method and research design within these approaches.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Seminar

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CULT 80090 DOCTORAL RESIDENCY SEMINAR 3 Credit Hours**

Advanced doctoral residency seminar for students in all areas of educational foundations. Focus on current and emergent issues research and trends in education in multiple settings.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Seminar

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**CULT 80091 SEMINAR: GREAT ISSUES IN EDUCATION 1-3 Credit Hours**

(Repeatable for credit) Interdisciplinary review of current great issues in education that are catalogs for presentation after discussion with membership of the course.

**Prerequisite:** Open to doctoral students from any field.

**Schedule Type:** Seminar

**Contact Hours:** 1-3 other

**Grade Mode:** Standard Letter

**CULT 80199 DISSERTATION I 15 Credit Hours**

(Repeatable for credit) Doctoral dissertation for which registration in at least two semesters is required, first of which will be semester in which dissertation work is begun and continuing until the completion of 30 hours.

**Prerequisite:** Doctoral standing; and special approval.

**Schedule Type:** Dissertation

**Contact Hours:** 15 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**CULT 80299 DISSERTATION II 15 Credit Hours**

(Repeatable for credit) Continuing registration required of doctoral students who have completed the initial 30 hours of dissertation and continuing until all degree requirements are met.

**Prerequisite:** CULT 80199; and doctoral standing.

**Schedule Type:** Dissertation

**Contact Hours:** 15 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**CULT 85535 INTERPROFESSIONAL STUDIES 3 Credit Hours**

Comprehensive analysis of issues affecting professional practice in education and human service resource settings. Examination of questions related to interprofessional collaboration on policy, research and practice.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Seminar

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CULT 89521 MULTICULTURAL EDUCATIONAL PRACTICE AND POLICY 3 Credit Hours**

Interdisciplinary inquiry into issues of pluralism and its influence on professional practice in education and human service settings. Cross-cultural interaction will be analyzed; reflection on developing culturally responsive professional practice.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Seminar

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CULT 89522 ETHICS IN PROFESSIONAL PRACTICE 3 Credit Hours**

(Slashed with CULT 69522) An examination of ethics in schooling and other educational settings through foundational study and issue analysis; strong case study and professional application emphasis.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Seminar

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CULT 89571 COMPARATIVE AND INTERNATIONAL EDUCATION 3 Credit Hours**

Comparative analysis of contemporary educational policies and structures in large-and small scale societies throughout the world.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Seminar

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CULT 89581 PROSEMINAR IN CULTURAL FOUNDATIONS 3 Credit Hours**

Doctoral seminar to familiarize Ph.D. students with cultural and social foundations of education as a field of study so that they may locate their inquiry within the relevant knowledge base and academic disciplines that comprise the cultural foundations of education.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Seminar

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CULT 89582 SOCIAL THEORIES IN EDUCATION 3 Credit Hours**

(Slashed with CULT 69582) This course examines both classic and contemporary social theories in education. Students will become familiar with different social theories, specifically focusing on strengths and limitations of various theoretical approaches. Students will also analyze the role social theories have had upon educational research, and examine different conceptual issues within various social theoretical traditions.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Seminar

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CULT 89591 SEMINAR IN CULTURAL FOUNDATIONS 1-5 Credit Hours**

(Repeatable for credit) (Slashed with CULT 69591) Variable topic seminar for advanced study of specialized topics and areas in cultural foundations; emphasis on theory and research findings as related to educational practice.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Seminar

**Contact Hours:** 1-5 other

**Grade Mode:** Standard Letter

**CULT 89592 ADVANCED PRACTICUM AND INTERNSHIP IN CULTURAL FOUNDATIONS 2-6 Credit Hours**

(Repeatable for credit) (Slashed with CULT 69592) Supervised program in field setting involving application of theories, principles and methodology in cultural foundations of education; planned with and supervised by graduate faculty member.

**Prerequisite:** Doctoral standing; and special approval.

**Schedule Type:** Practical Experience

**Contact Hours:** 6-18 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**CULT 89595 SPECIAL TOPICS IN CULTURAL FOUNDATIONS 1-3 Credit Hours**

(Repeatable for credit) (Slashed with CULT 69595) Specific topic course offering in response to emerging student or program needs in cultural foundations of education.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Seminar

**Contact Hours:** 1-3 lecture

**Grade Mode:** Standard Letter

**CULT 89596 INDIVIDUAL INVESTIGATION IN CULTURAL FOUNDATIONS 1-3 Credit Hours**

(Repeatable for credit) (Slashed with CULT 69596) Students pursue an individual project on a specific topic in cultural foundations of education with approval and under direction of instructor.

**Prerequisite:** Doctoral standing; and special approval.

**Schedule Type:** Individual Investigation

**Contact Hours:** 1-3 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP



**CULT 89598 RESEARCH IN CULTURAL FOUNDATIONS 1-15 Credit Hours**

(Repeatable for credit) (Slashed with CULT 69598) Students pursue an individual research project on a specific topic in cultural foundations of education with approval and under direction of instructor.

**Prerequisite:** Doctoral standing; and special approval.

**Schedule Type:** Research

**Contact Hours:** 1-15 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**CULT 89691 VARIABLE CONTENT SEMINAR: GREAT IDEAS IN EDUCATION 3 Credit Hours**

(Repeatable for credit) (Slashed with CULT 69691) This course explores a great idea in education from multiple disciplinary perspectives (philosophical, sociological, historical) and looks at the ways in which the idea in question has shaped or could transform educational practice at multiple levels.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Seminar

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Educational Leadership K-12 (EDLE)****EDLE 40093 VARIABLE TITLE WORKSHOP IN EDUCATIONAL ADMINISTRATION 1-5 Credit Hours**

(Repeatable for credit) (Slashed with EDLE 50093 and EDLE 70093)

**Prerequisite:** None.

**Schedule Type:** Workshop

**Contact Hours:** 1-5 other

**Grade Mode:** Satisfactory/Unsatisfactory

**EDLE 50093 VARIABLE TITLE WORKSHOP IN EDUCATIONAL ADMINISTRATION 1-5 Credit Hours**

(Repeatable for credit) (Slashed with EDLE 40093 and EDLE 70093)

Variable title workshop in educational administration.

**Prerequisite:** Graduate standing.

**Schedule Type:** Workshop

**Contact Hours:** 1-5 other

**Grade Mode:** Satisfactory/Unsatisfactory

**EDLE 60199 THESIS I 2-6 Credit Hours**

Thesis students must register for a total of 6 hours, 2 to 6 hours in a single semester distributed over several semesters if desired.

**Prerequisite:** Graduate standing.

**Schedule Type:** Masters Thesis

**Contact Hours:** 2-6 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**EDLE 60299 THESIS II 2 Credit Hours**

Thesis students must continue registration each semester until all degree requirements are met.

**Prerequisite:** EDLE 60199; and graduate standing.

**Schedule Type:** Masters Thesis

**Contact Hours:** 2 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**EDLE 66492 INTERNSHIP IN EDUCATIONAL ADMINISTRATION 3-6 Credit Hours**

(Repeatable for a maximum of 6 credit hours) (Slashed with EDLE 76492)

A field-based internship utilizing an inquiry-based learning model, requiring projects as designated by the program area faculty. Specific topics are outlined and shared at meetings prior to beginning internship. Students are required to complete Bureau of Criminal Investigation and Identification (BCII) and Federal Bureau of Investigation (FBI) background checks and submit the results to authorized personnel at their assigned school-agency before the first day of the semester in which student teaching internship will take place.

**Prerequisite:** Graduate standing.

**Schedule Type:** Practical Experience

**Contact Hours:** 10-20 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**EDLE 66515 FACILITIES PLANNING AND ADMINISTRATION 3 Credit Hours**

(Slashed with EDLE 76515) Overview of facilities planning and administration, including architectural/ construction management, the educational program, restoration and maintenance.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**EDLE 66517 ADMINISTRATION AND SUPERVISION OF SPECIAL EDUCATION 3 Credit Hours**

(Slashed with EDLE 76517) Administration of educational programs for exceptional children: improvement of teacher competencies; function of special education supervisors; and special education operations at a local, state and national level.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**EDLE 66518 SCHOOL AND SPECIAL EDUCATION LAW 3 Credit Hours**

(Slashed with EDLE 76518) Constitutional, statutory, and case law involving schools, special and regular education students, administrators, parents and others are studied.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**EDLE 66520 SCHOOL LAW FOR TEACHERS AND PRINCIPALS 3 Credit Hours**

(Slashed with EDLE 76520) Selected principles of constitutional, statutory case and common law affecting the administration of schools generally and Ohio schools specifically.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**EDLE 66522 PUBLIC SCHOOL FINANCE AND ECONOMICS 3 Credit Hours**

(Slashed with EDLE 76522) Analysis of national, state and local problems of collection custody and expenditure of public school funds.

**Prerequisite:** EDLE 66526; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**EDLE 66525 THE EDUCATIONAL PRINCIPALSHIP 3 Credit Hours**  
(Slashed with EDLE 76525) Organizing and administering elementary, middle level and secondary schools.

**Prerequisite:** EDLE 66526 or EDLE 76526; 16 hrs of EDLE; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**EDLE 66526 FUNDAMENTALS OF EDUCATIONAL ADMINISTRATION 3 Credit Hours**

(Slashed with EDLE 76526) Examines theory and practice essential for administration. Skills and understanding are developed in theory goal setting staff development.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**EDLE 66527 SCHOOL FINANCE FOR BUILDING ADMINISTRATORS 3 Credit Hours**

(Slashed with EDLE 76527) Identification of the responsibilities of the school building administrator related to all financial operations in the school building; included are the budget process and development, student accounts, the purchase order process and fund raising and school groups.

**Prerequisite:** Major in Educational Leadership K-12, Higher Education Administration and Student Affairs or Higher Education Administration; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**EDLE 66529 LEADING FOR SOCIAL JUSTICE 3 Credit Hours**

(Slashed with EDLE 76529) Centers on investigating a broad research agenda on leading for social justice within educational leadership. Provides a context for candidates to establish strong connections between what it means to lead and the primary concerns for learning and equity, which are associated with increased performance and effectiveness for American education. Candidates engage in concepts such as equity audits, border culture, hegemony, moral transformation and other concepts aligned with leading 21st century schools. Such concepts encourage school leaders to reconsider the influence of wider social, political, cultural and economic contexts in creating transformative and revolutionary schools.

**Prerequisite:** Graduate standing.

**Schedule Type:** Field Experience, Lecture

**Contact Hours:** 2 lecture, 1 other

**Grade Mode:** Standard Letter

**EDLE 66531 INSTRUCTIONAL LEADERSHIP 3 Credit Hours**

(Slashed with EDLE 76531) Focuses on the administrative role pertaining to the leadership, management, and evaluation of quality and effective school classroom instruction. Building administrators are responsible for providing the resource for effective instruction, which result in student learning. The key to effective instruction at any level requires a solid grounding in curriculum theory and design. Designed to provide the tools that administrators need to oversee the development, production, monitoring and evaluation of instructional methods and strategies.

**Prerequisite:** Graduate standing.

**Schedule Type:** Field Experience, Lecture

**Contact Hours:** 2 lecture, 1 other

**Grade Mode:** Standard Letter

**EDLE 66533 CENTRAL OFFICE ADMINISTRATION: CURRICULUM AND PUPIL SERVICES 3 Credit Hours**

(Slashed with EDLE 76533) Analyzes roles and responsibilities of central office personnel with an emphasis on curriculum, pupil, and support services as impacted by current educational policy, and practice and focused on impacting the achievement of all students.

**Prerequisite:** Graduate standing.

**Schedule Type:** Field Experience, Lecture

**Contact Hours:** 1.75 lecture, 1.25 other

**Grade Mode:** Standard Letter

**EDLE 66534 THE SUPERINTENDENCY 3 Credit Hours**

(Slashed with EDLE 76534) Focuses on major responsibilities of board of education and superintendent.

**Prerequisite:** EDLE 66526 or EDLE 76526; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**EDLE 66536 THE ADMINISTRATOR'S ROLE IN CURRICULUM DEVELOPMENT 3 Credit Hours**

(Slashed with EDLE 76536) Focusing on the administrative role pertaining to the development, management and evaluation of a quality and effective district school classroom curriculum.

**Prerequisite:** Major in Educational Leadership K-12, Higher Education Administration and Student Affairs or Higher Education Administration; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**EDLE 66538 ADMINISTRATION OF SCHOOL CULTURE, POLITICS AND REFORMS 3 Credit Hours**

(Slashed with EDLE 76538) Focuses on administrative roles in assessing, leading, developing and reforming school culture. Centers on building and district administrators, who are responsible for providing the cultural frameworks and context of school culture through politics and reform efforts. The key to effective school reform requires a solid understanding of micropolitics as well as policy and practice at a state and national level. Designed to provide educational leaders with tools to assess school and district-wide cultural practices and norms as well as the skill sets to disrupt and change them.

**Prerequisite:** Graduate standing.

**Schedule Type:** Field Experience, Lecture

**Contact Hours:** 1.75 lecture, 1.25 other

**Grade Mode:** Standard Letter

**EDLE 66540 WOMEN IN LEADERSHIP 3 Credit Hours**

(Slashed with EDLE 76540) An interactive study of women's development and its effect on their dispositions toward leadership. Provides theoretical contract to traditional management theory.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**EDLE 66542 PRINCIPLES AND TECHNIQUES OF SUPERVISION AND SPECIAL EDUCATION 3 Credit Hours**

(Slashed with EDLE 76542) Principles and techniques needed by administrative specialists and supervisors (curriculum, pupil services, special education) are given. Research findings include changing human relations, change leadership, legal implications, group process, communication, coordination, management, observations, and conferencing skills.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**EDLE 66543 SCHOOL ADMINISTRATION IN URBAN SETTINGS 3 Credit Hours**

(Slashed with EDLE 76543) This course is designed to provide students with opportunities to discuss and investigate the unique challenges of leading inner-city schools. Issues of focus include transportation, staffing, extracurricular support for students and more.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**EDLE 66544 COMMUNITY RELATIONS AND COMMUNICATION SKILLS 3 Credit Hours**

(Slashed with EDLE 76544) Centers on encouraging school leaders to consider the way in which children's learning is influenced by behaviors and perspectives of family members, school personnel and members of the larger community. Educators and school leaders have much to gain by deepening their understanding of how students learn from their family and cultural backgrounds, which fosters more inclusive school practices. Candidates investigate the influence of such collaborations and their role in upholding the ethical responsibility to promote children's welfare.

**Prerequisite:** Graduate standing.

**Schedule Type:** Field Experience, Lecture

**Contact Hours:** 1.75 lecture, 1.25 other

**Grade Mode:** Standard Letter

**EDLE 66591 SEMINAR IN EDUCATIONAL ADMINISTRATION 1-4 Credit Hours**

(Repeatable for credit) Seminar in educational administration.

**Prerequisite:** Graduate standing.

**Schedule Type:** Seminar

**Contact Hours:** 1-4 other

**Grade Mode:** Standard Letter

**EDLE 66595 SPECIAL TOPICS IN EDUCATIONAL ADMINISTRATION 1-3 Credit Hours**

(Repeatable for credit) (Slashed with EDLE 76595) Specialized offerings in response to emerging or selected program needs.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 1-3 lecture

**Grade Mode:** Standard Letter

**EDLE 66596 INDIVIDUAL INVESTIGATION IN EDUCATIONAL ADMINISTRATION 2-4 Credit Hours**

(Repeatable for credit) (Slashed with EDLE 76596) Projects as assigned.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Individual Investigation

**Contact Hours:** 2-4 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**EDLE 66598 RESEARCH IN EDUCATIONAL ADMINISTRATION 2-8 Credit Hours**

(Repeatable for credit) Projects as assigned.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Research

**Contact Hours:** 2-8 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**EDLE 66602 TECHNOLOGY LEADERSHIP IN EDUCATION 3 Credit Hours**

(Slashed with EDLE 76602) Prepares educational administrators to be leaders in the advancement of the appropriate integration of technology. Current and prospective administrators increase their understanding of how technology can be used as a tools for teaching, learning, assessment, management, planning and communications. The development and implementations of vision for educational technology is addressed, as well as social and ethical issues.

**Prerequisite:** Graduate standing.

**Schedule Type:** Field Experience, Lecture

**Contact Hours:** 2.25 lecture, .75 other

**Grade Mode:** Standard Letter

**EDLE 66747 PERSONNEL 3 Credit Hours**

(Slashed with EDLE 76747) Administration of education staff at building and central office levels; scope and depth of supervisory responsibilities and development of evaluation techniques.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**EDLE 66750 COACHING AND MENTORING FOR TEACHER LEADERS 3 Credit Hours**

Focuses on developing the knowledge, skills, and dispositions necessary for teacher leaders to provide high levels of effective coaching and mentoring for improving teaching practices and learning for all students. Specific approaches related to mentoring, coaching and per assistance will be examined and practiced.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**EDLE 66751 INSTRUCTIONAL LEADERSHIP FOR TEACHER LEADERS 3 Credit Hours**

This course provides the tools that teacher leaders need to engage in the development, production, monitoring and evaluation of instructional methods and strategies.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**EDLE 70093 VARIABLE TITLE WORKSHOP IN EDUCATIONAL ADMINISTRATION 1-5 Credit Hours**

(Repeatable for credit) (Slashed with EDLE 40093 and EDLE 50093) Variable title workshop in EDAD.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Workshop

**Contact Hours:** 1-5 other

**Grade Mode:** Satisfactory/Unsatisfactory

**EDLE 76492 INTERNSHIP IN EDUCATIONAL ADMINISTRATION 3-6 Credit Hours**

(Repeatable for a maximum of 6 credit hours) (Slashed with EDLE 76492) A field-based internship utilizing an inquiry-based learning model, requiring projects as designated by the program area faculty. Specific topics are outlined and shared at meetings prior to beginning internship. Students are required to complete Bureau of Criminal Investigation and Identification (BCII) and Federal Bureau of Investigation (FBI) background checks and submit the results to authorized personnel at their assigned school-agency before the first day of the semester in which student teaching internship will take place.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Practical Experience

**Contact Hours:** 10-20 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**EDLE 76515 FACILITIES PLANNING AND ADMINISTRATION 3 Credit Hours**

(Slashed with EDLE 66515) Overview of facilities planning and administration, including architectural/ construction management, the educational program, restoration and maintenance.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**EDLE 76517 ADMINISTRATION AND SUPERVISION OF SPECIAL EDUCATION 3 Credit Hours**

(Slashed with EDLE 66517) Administration of educational programs for exceptional children: improvement of teacher competencies; function of special education supervisors; and special education operations at a local, state, and national level.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**EDLE 76518 SCHOOL AND SPECIAL EDUCATION LAW 3 Credit Hours**

(Slashed with EDLE 66518) Constitutional, statutory, and case law involving schools, special and regular education students, administrators, parents and others are studied.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**EDLE 76520 SCHOOL LAW FOR TEACHERS AND PRINCIPALS 3 Credit Hours**

(Slashed with EDLE 66520) Selected principles of constitutional, statutory, case and common law affecting the administration of schools generally and Ohio schools specifically.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**EDLE 76522 PUBLIC SCHOOL FINANCE AND ECONOMICS 3 Credit Hours**

(Slashed with EDLE 66522) Analysis of national, state and local problems of collection custody and expenditure of public school funds.

**Prerequisite:** EDLE 76526; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**EDLE 76525 THE EDUCATIONAL PRINCIPALSHIP 3 Credit Hours**  
(Slashed with EDLE 66525) Organizing and administering elementary, middle level and secondary schools.

**Prerequisite:** EDLE 66526 or EDLE 76526; 16 credit hours of EDLE; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**EDLE 76526 FUNDAMENTALS OF EDUCATIONAL ADMINISTRATION 3 Credit Hours**

(Slashed with EDLE 66526) Examines theory and practice essential for administration. Skills and understanding are developed in theory goal setting staff development.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**EDLE 76527 SCHOOL FINANCE FOR BUILDING ADMINISTRATORS 3 Credit Hours**

(Slashed with EDLE 66527) Identification of the responsibilities of the school building administrator related to all financial operations in the school building; included are the budget process and development, student accounts, the purchase order process, and fund raising and school groups.

**Prerequisite:** Major in Educational Leadership K-12 or Higher Education Administration; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**EDLE 76529 LEADING FOR SOCIAL JUSTICE 3 Credit Hours**

(Slashed with EDLE 66529) Centers on investigating a broad research agenda on leading for social justice within educational leadership. Provides a context for candidates to establish strong connections between what it means to lead and the primary concerns for learning and equity, which are associated with increased performance and effectiveness for American education. Candidates engage in concepts such as equity audits, border culture, hegemony, moral transformation and other concepts aligned with leading 21st century schools. Such concepts encourage school leaders to reconsider the influence of wider social, political, cultural and economic contexts in creating transformative and revolutionary schools.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Field Experience, Lecture

**Contact Hours:** 2 lecture, 1 other

**Grade Mode:** Standard Letter

**EDLE 76531 INSTRUCTIONAL LEADERSHIP 3 Credit Hours**

(Slashed with EDLE 66531) Focuses on the administrative role pertaining to the leadership, management, and evaluation of quality and effective school classroom instruction. Building administrators are responsible for providing the resource for effective instruction, which result in student learning. The key to effective instruction at any level requires a solid grounding in curriculum theory and design. Designed to provide the tools that administrators need to oversee the development, production, monitoring and evaluation of instructional methods and strategies.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Field Experience, Lecture

**Contact Hours:** 2 lecture, 1 other

**Grade Mode:** Standard Letter



**EDLE 76533 CENTRAL OFFICE ADMINISTRATION 3 Credit Hours**  
(Slashed with EDLE 66533) Analyzes roles and responsibilities of central office personnel with an emphasis on curriculum, pupil, and support services as impacted by current educational policy, and practice and focused on impacting the achievement of all students.  
**Prerequisite:** Doctoral standing.  
**Schedule Type:** Field Experience, Lecture  
**Contact Hours:** 1.75 lecture, 1.25 other  
**Grade Mode:** Standard Letter

**EDLE 76534 THE SUPERINTENDENCY 3 Credit Hours**  
(Slashed with EDLE 66534) Focuses on major responsibilities of board of education and superintendent.  
**Prerequisite:** EDLE 66526 or EDLE 76526; and doctoral standing.  
**Schedule Type:** Lecture  
**Contact Hours:** 3 lecture  
**Grade Mode:** Standard Letter

**EDLE 76536 THE ADMINISTRATOR'S ROLE IN CURRICULUM DEVELOPMENT 3 Credit Hours**  
(Slashed with EDLE 66536) Focusing on the administrative role pertaining to the development, management and evaluation of a quality and effective district/school/classroom curriculum.  
**Prerequisite:** Major in Educational Leadership K-12; and doctoral standing.  
**Schedule Type:** Lecture  
**Contact Hours:** 3 lecture  
**Grade Mode:** Standard Letter

**EDLE 76538 ADMINISTRATION OF SCHOOL CULTURE, POLITICS AND REFORM 3 Credit Hours**  
(Slashed with EDLE 66538) Focuses on administrative roles in assessing, leading, developing and reforming school culture. Centers on building and district administrators, who are responsible for providing the cultural frameworks and context of school culture through politics and reform efforts. The key to effective school reform requires a solid understanding of micropolitics as well as policy and practice at a state and national level. Designed to provide educational leaders with tools to assess school and district-wide cultural practices and norms as well as the skill sets to disrupt and change them.  
**Prerequisite:** Doctoral standing.  
**Schedule Type:** Field Experience, Lecture  
**Contact Hours:** 1.75 lecture, 1.25 other  
**Grade Mode:** Standard Letter

**EDLE 76540 WOMEN IN LEADERSHIP 3 Credit Hours**  
(Slashed with EDLE 66540) An interactive study of women's development and its effect on their dispositions toward leadership. Provides theoretical contract to traditional management theory.  
**Prerequisite:** Doctoral standing.  
**Schedule Type:** Lecture  
**Contact Hours:** 3 lecture  
**Grade Mode:** Standard Letter

**EDLE 76542 PRINCIPLES AND TECHNIQUES OF SUPERVISION AND SPECIAL EDUCATION 3 Credit Hours**  
(Slashed with EDLE 66542) Principles and techniques needed by administrative specialists and supervisors (curriculum, pupil services, special education) are given. Research findings include changing human relations, change leadership, legal implications, group process, communication, coordination, management, observations, and conferencing skills.  
**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture  
**Contact Hours:** 3 lecture  
**Grade Mode:** Standard Letter

**EDLE 76543 SCHOOL ADMINISTRATION IN URBAN SETTINGS 3 Credit Hours**  
(Slashed with EDLE 66543) This course is designed to provide students with opportunities to discuss and investigate the unique challenges of leading inner-city schools. Issues of focus include transportation, staffing, extracurricular support for students and more.  
**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture  
**Contact Hours:** 3 lecture  
**Grade Mode:** Standard Letter

**EDLE 76544 COMMUNITY RELATIONS AND COMMUNICATION SKILLS 3 Credit Hours**  
(Slashed with EDLE 66544) Centers on encouraging school leaders to consider the way in which children's learning is influenced by behaviors and perspectives of family members, school personnel and members of the larger community. Educators and school leaders have much to gain by deepening their understanding of how students learn from their family and cultural backgrounds, which fosters more inclusive school practices. Candidates investigate the influence of such collaborations and their role in upholding the ethical responsibility to promote children's welfare.

**Prerequisite:** Doctoral standing.  
**Schedule Type:** Field Experience, Lecture  
**Contact Hours:** 1.75 lecture, 1.25 other  
**Grade Mode:** Standard Letter

**EDLE 76595 SPECIAL TOPICS IN EDUCATIONAL ADMINISTRATION 1-3 Credit Hours**  
(Repeatable for credit) (Slashed with EDLE 66595) Specialized offerings in response to emerging or selected program needs.  
**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture  
**Contact Hours:** 1-3 lecture  
**Grade Mode:** Standard Letter

**EDLE 76596 INDIVIDUAL INVESTIGATION IN EDUCATIONAL ADMINISTRATION 2-4 Credit Hours**  
(Repeatable for credit) (Slashed with EDLE 66596) Projects as assigned.  
**Prerequisite:** Doctoral standing; and special approval.  
**Schedule Type:** Individual Investigation  
**Contact Hours:** 2-4 other  
**Grade Mode:** Satisfactory/Unsatisfactory-IP



**EDLE 76602 TECHNOLOGY LEADERSHIP IN EDUCATION 3 Credit Hours**

(Slashed with EDLE 66602) Prepares educational administrators to be leaders in the advancement of the appropriate integration of technology. Current and prospective administrators increase their understanding of how technology can be used as a tools for teaching, learning, assessment, management, planning and communications. The development and implementations of vision for educational technology is addressed, as well as social and ethical issues.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Field Experience, Lecture

**Contact Hours:** 2.25 lecture, .75 other

**Grade Mode:** Standard Letter

**EDLE 76747 PERSONNEL 3 Credit Hours**

(Slashed with EDLE 66747) Administration of education staff at building and central office levels; scope and depth of supervisory responsibilities and development of evaluation techniques.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**EDLE 80080 DISSERTATION PREPARATION SEMINAR 3 Credit Hours**

Gain an in-depth understanding of the dissertation-writing process. Complete a dissertation proposal.

**Prerequisite:** Doctoral standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**EDLE 80199 DISSERTATION I 15 Credit Hours**

(Repeatable for credit) Doctoral dissertation for which registration in at least two semesters is required, first of which will be semester in which dissertation work is begun and continuing until the completion of 30 hours.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Dissertation

**Contact Hours:** 15 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**EDLE 80299 DISSERTATION II 15 Credit Hours**

(Repeatable for credit) Continuing registration required of doctoral students who have completed the initial 30 hours of dissertation and continuing until all degree requirements are met.

**Prerequisite:** EDLE 80199; and doctoral standing.

**Schedule Type:** Dissertation

**Contact Hours:** 15 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**EDLE 86591 SEMINAR IN EDUCATIONAL ADMINISTRATION 1-4 Credit Hours**

(Repeatable for credit) Seminar in EDAD.

**Prerequisite:** Doctoral standing; and special approval.

**Schedule Type:** Seminar

**Contact Hours:** 1-4 other

**Grade Mode:** Standard Letter

**EDLE 86598 RESEARCH IN EDUCATIONAL ADMINISTRATION 2-8 Credit Hours**

(Repeatable for credit) Projects as assigned.

**Prerequisite:** Doctoral standing; and special approval.

**Schedule Type:** Research

**Contact Hours:** 2-8 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**Educational Studies (EDST)****EDST 40095 SPECIAL TOPICS IN EDUCATIONAL STUDIES 1-3 Credit Hours**

(Course is repeatable) Selected topics in Educational Studies dependent upon interest.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 1-3 lecture

**Grade Mode:** Standard Letter

**EDST 40096 INDIVIDUAL INVESTIGATION IN EDUCATIONAL STUDIES PROGRAM 1-3 Credit Hours**

(Course is repeatable) Independent study completed under the supervision of a faculty member. Written approval of supervising faculty member required prior to registration.

**Prerequisite:** Special approval.

**Schedule Type:** Individual Investigation

**Contact Hours:** 1-3 other

**Grade Mode:** Standard Letter-IP

**EDST 44003 SEMINAR IN EDUCATIONAL STUDIES 3 Credit Hours**

Directed discussion applying concepts from previous educational coursework and internships or prior work experience.

**Prerequisite:** Senior standing.

**Schedule Type:** Seminar

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter-IP

**EDST 44004 RESEARCH AND WRITINGS IN EDUCATIONAL STUDIES (WIC) 3 Credit Hours**

This course presents and integrates the role of professionals in the Education, Health and Human Services fields as they attempt to meet the needs of individuals in diverse environments.

**Prerequisite:** Senior standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter-IP

**Attributes:** Writing Intensive Course

**EDST 44092 PRACTICUM IN EDUCATIONAL STUDIES (ELR) 1-12 Credit Hours**

(Course is repeatable for a maximum of 12 credit hours) Placement in a work site congruent with student's career aspirations.

**Prerequisite:** Educational Studies majors; and senior standing; and special approval.

**Schedule Type:** Practical Experience

**Contact Hours:** 1-12 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**Attributes:** Experiential Learning Requirement

## Evaluation and Measurement (EVAL)

### EVAL 45610 CLASSROOM ASSESSMENT 3 Credit Hours

(Slashed with EVAL 55610 and EVAL 75610) Instruction on contemporary and classic theories and issues in classroom assessment. Students learn about the purposes and strengths of informal and formal, traditional and alternative approaches to classroom assessment. Students examine both selected response assessments and constructed response assessments, develop assessment frameworks, identify alternative models of assessments, evaluate best practices in classroom assessment, and discuss respective advantages and disadvantages of multiple kinds of assessments.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

### EVAL 50093 VARIABLE TOPIC WORKSHOP EVALUATION AND MEASUREMENT 1-4 Credit Hours

(Repeatable once for a maximum of 6 credit hours) (Slashed with EVAL 70093) Offered on request of school system. Enrollment limited to teachers, administrators or supervisors who are employed in sponsoring system and who are accepted to the university.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Workshop

**Contact Hours:** 1-4 other

**Grade Mode:** Satisfactory/Unsatisfactory

### EVAL 55610 CLASSROOM ASSESSMENT 3 Credit Hours

(Slashed with EVAL 45610 and EVAL 75610) Instruction on contemporary and classic theories on and issues in classroom assessment. Students will learn about the purposes and strengths of informal and formal, traditional and alternative approaches to classroom assessment. Students will examine both selected response assessments and constructed response assessments, develop assessment frameworks, identify alternative models of assessments, evaluate best practices in classroom assessment, and discuss respective advantages and disadvantages of multiple kinds of assessments.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

### EVAL 60199 THESIS I 2-6 Credit Hours

Thesis student must register for total of 6 hours, 2 to 6 hours in a single semester distributed over several semesters if desired.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Masters Thesis

**Contact Hours:** 2-6 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

### EVAL 60299 THESIS II 2 Credit Hours

Thesis students must continue registration each semester until all degree requirements are met.

**Prerequisite:** EVAL 60199; and graduate standing.

**Schedule Type:** Masters Thesis

**Contact Hours:** 2 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

### EVAL 65510 STATISTICS I FOR EDUCATIONAL SERVICES 3 Credit Hours

(Slashed with EVAL 75510) Introduction to descriptive and inferential statistics used in educational services research: univariate and bivariate techniques (correlations and simple regression); hypothesis testing; non-parametric techniques. Ordinarily taken in graduate course sequence.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

### EVAL 65511 RESEARCH IN EDUCATIONAL SERVICES 3 Credit Hours

Introduction to purposes and practice of qualitative and quantitative research related to educational services. Emphasis on elements of doing research and using products of research to support and enhance practice. Authentic examples used as illustration.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

### EVAL 65515 QUANTITATIVE RESEARCH DESIGN AND ANALYSIS 3 Credit Hours

(Slashed with EVAL 85515) Introduction to quantitative research design and analysis in the social sciences. Students are introduced to various concerns and issues that arise in conducting quantitative research, as well as various quantitative research designs, including experimental, quasi-experimental, and non-experimental research approaches. Students will also learn to critically examine quantitative research reports in terms of reliability and validity. Additionally, students will be introduced to analysis of variance (ANOVA) procedures for analyzing quantitative research designs.

**Prerequisite:** EVAL 65510; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

### EVAL 65516 QUALITATIVE RESEARCH DESIGN 3 Credit Hours

(Slashed with EVAL 85516) Introduction to qualitative research approaches, design, and methods. Students learn about the theoretical underpinnings, nature, characteristics, and methods of qualitative research. Students are introduced to several types of qualitative research designs. They learn to engage in critical reading of qualitative research reports. Students also learn to design qualitative research studies.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

### EVAL 65522 BASICS OF QUALITATIVE INTERVIEWING 1 Credit Hour

(Slashed with EVAL 75522) Specialized interviewing methods and techniques prior to engaging in qualitative research.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 1 lecture

**Grade Mode:** Standard Letter

**EVAL 65530 PRACTITIONER INQUIRY 3 Credit Hours**

(Slashed with EVAL 85530) This course prepares students to engage in practitioner research. It provides an overview of the history, theoretical, ethical, and practical issues related to engaging in practitioner work in a variety of fields. Research design, data collection and analysis are explored and practiced. Students will critique practitioner research and design their own practitioner research study.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**EVAL 65533 INTRODUCTION TO NARRATIVE INQUIRY AND ANALYSIS 1 Credit Hour**

(Slashed with EVAL 75533) This course will introduce students to the "rapidly maturing" methodology, providing a foundational exploration of narrative techniques, the craft of good academic writing, and a practice of narrative analysis.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 1 lecture

**Grade Mode:** Standard Letter-IP

**EVAL 68710 CLASSICAL TEST THEORY 3 Credit Hours**

(Slashed with EVAL 78710) Students develop an understanding of ideas and procedures related to classical test theory sufficient for test development and meaningful interpretation of results from standardized tests and other assessments.

**Prerequisite:** EVAL 65510; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**EVAL 68711 MODERN TEST THEORY: ITEM RESPONSE THEORY 3 Credit Hours**

(Slashed with EVAL 78711) The primary objective of the course is to provide students with knowledge and skills necessary to use item response theory methods and to organize, manipulate, analyze and interpret data from IRT applications. Some of the popular IRT computer programs are introduced.

**Prerequisite:** EVAL 65510; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**EVAL 68713 MULTIVARIATE ANALYSIS IN EDUCATIONAL RESEARCH 3 Credit Hours**

(Slashed with EVAL 78713) Objectives are to enable students to select and use multivariate methods appropriately, to develop knowledge and skills necessary to conduct multivariate analyses using various statistical packages (SPSS, SAS) and to develop knowledge and skills necessary for interpreting results of multivariate analysis.

**Prerequisite:** EVAL 65510; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**EVAL 68714 FACTOR ANALYSIS IN EDUCATIONAL RESEARCH 3 Credit Hours**

(Slashed with EVAL 78714) This course develops the ability of students to conceptualize and apply the logic and techniques of factor analysis. The focus is on both exploratory and confirmatory procedures.

**Prerequisite:** EVAL 65510; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**EVAL 68715 SURVEY DESIGN AND APPLIED RESEARCH IN EDUCATION 3 Credit Hours**

Designed to be an introduction to survey design including the use of online survey applications data collection and will focus on applied quantitative research using SPSS. Open to any graduate students with appropriate prerequisite courses and an interest in applied quantitative research. The project-based course has two major components: survey construction and applied research. Students will perform tasks typically requested of data analysts, institutional researchers, and program evaluators including but not limited to SPSS data management, data transformations, descriptive and inferential analysis, and interpretation of results.

**Prerequisite:** EVAL 65510; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**EVAL 68716 STATISTICS II: ANOVA AND NONPARAMETRIC TESTS 3 Credit Hours**

The primary objective of the course is to develop students' understanding of statistical concepts and procedures sufficient for both conducting appropriate statistical analysis and interpreting the results. Authentic research examples are used throughout the course as illustrations of the different methods of conducting statistical analyses for the social sciences. This course is designed to lead students to become informed consumers of intermediate level statistical analyses, specifically analysis of variance (ANOVA) procedures, used in the social sciences.

**Prerequisite:** EVAL 65510; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**EVAL 68728 MULTIPLE REGRESSION 3 Credit Hours**

(Slashed with EVAL 78728) The purpose of this course is to develop an understanding of use of multiple regression in the social sciences and related issues, including examining assumptions, diagnosis of outliers and influential data points, determining statistical power, testing for moderation and mediation, etc. The course begins with an introduction to simple models with two predictor variables, and continues to more advanced models, including those with three or more variables, categorical predictors, interactions, non-linear models, and logistic regression.

**Prerequisite:** EVAL 65510; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**EVAL 68735 STRUCTURAL EQUATION MODELING 3 Credit Hours**  
(Slashed with EVAL 78735) The purpose of this course is to develop an understanding of the basic concepts of structural equation modeling and the use of path analysis, confirmatory factor analysis, bi-factor and second-order CFA, multitrait-multimethod analysis, multiple sample-multiple group SEM, latent class model, and latent growth modeling covered under the theoretical framework of structural equation modeling. The course familiarizes students with these methods in order to (a) critique a research study with respect to the statistical analysis, and (b) select an appropriate model and be able to apply it.  
**Prerequisite:** EVAL 65510 and EVAL 68728; and graduate standing.  
**Schedule Type:** Lecture  
**Contact Hours:** 3 lecture  
**Grade Mode:** Standard Letter

**EVAL 68745 HIERARCHICAL LINEAR MODELING 3 Credit Hours**  
(Slashed with EVAL 78745) This course introduces methods for the analysis of multilevel data and emphasizes practical, hands-on development, analysis and interpretation of hierarchical linear models. Applications will be drawn from education, psychology, other social sciences, and health-related disciplines. Topic coverage includes development of multilevel models, estimation, hypothesis testing, statistical inference, model assessment and residual diagnostics, centering options and impact, treatment of heterogeneity, and introduction to longitudinal analysis via multilevel models.  
**Prerequisite:** EVAL 65510 and EVAL 68728; and graduate standing.  
**Schedule Type:** Lecture  
**Contact Hours:** 3 lecture  
**Grade Mode:** Standard Letter

**EVAL 68791 SEMINAR IN EVALUATION AND MEASUREMENT 1-5 Credit Hours**  
(Repeatable for credit) Variable topic seminar for advance study of specialized topics and areas in evaluation and measurement; emphasis on theory and research findings as related to educational practice.  
**Prerequisite:** Graduate standing; and special approval.  
**Schedule Type:** Seminar  
**Contact Hours:** 1-5 other  
**Grade Mode:** Standard Letter

**EVAL 68795 SPECIAL TOPICS IN EVALUATION AND MEASUREMENT 1-3 Credit Hours**  
(Repeatable for credit) Specific topic course offering in response to emerging student or program needs in evaluation and measurement.  
**Prerequisite:** Graduate standing; and special approval.  
**Schedule Type:** Lecture  
**Contact Hours:** 1-3 lecture  
**Grade Mode:** Standard Letter

**EVAL 68796 INDIVIDUAL INVESTIGATION IN EVALUATION AND MEASUREMENT 1-3 Credit Hours**  
(Repeatable for credit) Specific topic course offering in response to emerging student or program needs in evaluation and measurement.  
**Prerequisite:** Doctoral standing; and special approval.  
**Schedule Type:** Individual Investigation  
**Contact Hours:** 1-3 other  
**Grade Mode:** Satisfactory/Unsatisfactory-IP

**EVAL 68798 RESEARCH IN EVALUATION AND MEASUREMENT 1-15 Credit Hours**  
(Repeatable for credit) Students pursue an individual research project on a specific topic in evaluation and measurement with approval and under direction of instructor.  
**Prerequisite:** Graduate standing; and special approval.  
**Schedule Type:** Research  
**Contact Hours:** 1-15 other  
**Grade Mode:** Satisfactory/Unsatisfactory-IP

**EVAL 68806 HIGHER EDUCATION DATA AND INSTITUTIONAL RESEARCH 3 Credit Hours**  
(Slashed with EVAL 78806) This course is designed to be an overview of institutional research function and practice, introducing students to the purpose and history of IR, IR terminology and metrics, and IR application to a variety of university areas. The target audiences for this course are: 1) students with an evaluation and measurement background who are interested in applying their skills in a higher education context and 2) students from a higher education and or student affairs background who are looking to better understand higher education data and the applied research that occurs within an institution.  
**Prerequisite:** Graduate standing.  
**Schedule Type:** Lecture  
**Contact Hours:** 3 lecture  
**Grade Mode:** Standard Letter

**EVAL 68807 PROGRAM EVALUATION 3 Credit Hours**  
(Slashed with EVAL 78807) Study of principles and techniques of evaluation and measurement, and utilization of evidence to improve teaching, learning and implementation programs.  
**Prerequisite:** Graduate standing.  
**Schedule Type:** Lecture  
**Contact Hours:** 3 lecture  
**Grade Mode:** Standard Letter

**EVAL 70093 VARIABLE TOPIC WORKSHOP IN EVALUATION AND MEASUREMENT 1-4 Credit Hours**  
(Repeatable for credit) (Slashed with EVAL 50093) Offered on request of school system. Enrollment limited to teachers, administrators or supervisors who are employed in sponsoring system and who are accepted to the university.  
**Prerequisite:** Doctoral standing; and special approval.  
**Schedule Type:** Workshop  
**Contact Hours:** 1-4 other  
**Grade Mode:** Satisfactory/Unsatisfactory

**EVAL 75510 STATISTICS I FOR EDUCATIONAL SERVICES 3 Credit Hours**  
(Slashed with EVAL 65510) Introduction to descriptive and inferential statistics used in educational services research: univariate and bivariate techniques (correlations and simple regression); hypothesis testing; non-parametric techniques. Ordinarily taken in graduate course sequence.  
**Prerequisite:** Doctoral standing.  
**Schedule Type:** Lecture  
**Contact Hours:** 3 lecture  
**Grade Mode:** Standard Letter

**EVAL 75522 BASICS OF QUALITATIVE INTERVIEWING 1 Credit Hour**  
(Slashed with EVAL 65522) Specialized interviewing methods and techniques prior to engaging in qualitative research.  
**Prerequisite:** Doctoral standing.  
**Schedule Type:** Lecture  
**Contact Hours:** 1 lecture  
**Grade Mode:** Standard Letter

**EVAL 75533 INTRODUCTION TO NARRATIVE INQUIRY AND ANALYSIS**  
**1 Credit Hour**

(Slashed with EVAL 65533) This course will introduce students to the "rapidly maturing" methodology, providing a foundational exploration of narrative techniques, the craft of good academic writing, and a practice of narrative analysis.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 1 lecture

**Grade Mode:** Standard Letter-IP

**EVAL 75550 INTRODUCTION TO QUANTITATIVE RESEARCH IN EDUCATION**  
**3 Credit Hours**

This course provides an introduction to the purposes, practices, and applications of quantitative research in the field of education. The course focuses on foundational knowledge related to the methods used for conducting quantitative research, evaluating quantitative research, and using products of research to support and enhance practice.

Authentic examples are used as illustrations throughout the course. The course is designed to allow students to become informed consumers of quantitative research in education.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**EVAL 75610 CLASSROOM ASSESSMENT**  
**3 Credit Hours**

(Slashed with EVAL 45610 and EVAL 55610) Instruction on contemporary and classic theories and issues in classroom assessment. Students will learn about the purposes and strengths of informal and formal, traditional and alternative approaches to classroom assessment. Students will examine both selected response assessments and constructed response assessments, develop assessment frameworks, identify alternative models of assessments, evaluate best practices in classroom assessment, and discuss respective advantages and disadvantages of multiple kinds of assessments.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**EVAL 78710 CLASSICAL TEST THEORY**  
**3 Credit Hours**

(Slashed with EVAL 68710) Students develop an understanding of ideas and procedures related to classical test theory sufficient for test development and meaningful interpretation of results from standardized tests and other assessments.

**Prerequisite:** EVAL 65510; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**EVAL 78711 MODERN TEST THEORY: ITEM RESPONSE THEORY**  
**3 Credit Hours**

(Slashed with EVAL 68711) The primary objective of the course is to provide students with knowledge and skills necessary to use item response theory methods and to organize, manipulate, analyze and interpret data from IRT applications. Some of the popular IRT computer programs are introduced.

**Prerequisite:** EVAL 75510; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**EVAL 78713 MULTIVARIATE ANALYSIS IN EDUCATIONAL RESEARCH**  
**3 Credit Hours**

(Slashed with EVAL 68713) Objectives are to enable students to select and use multivariate methods appropriately, to develop knowledge and skills necessary to conduct multivariate analyses using various statistical packages (SPSS, SAS) and to develop knowledge and skills necessary for interpreting results of multivariate analysis.

**Prerequisite:** EVAL 75510; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**EVAL 78714 FACTOR ANALYSIS IN EDUCATIONAL RESEARCH**  
**3 Credit Hours**

(Slashed with EVAL 68714) This course develops the ability of students to conceptualize and apply the logic and techniques of factor analysis. The focus is on both exploratory and confirmatory procedures.

**Prerequisite:** EVAL 75510; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**EVAL 78715 SURVEY DESIGN AND APPLIED RESEARCH IN EDUCATION**  
**3 Credit Hours**

Designed to be an introduction to survey design including the use of online survey applications data collection and will focus on applied quantitative research using SPSS. Open to any graduate students with appropriate prerequisite courses and an interest in applied quantitative research. The project-based course has two major components: survey construction and applied research. Students will perform tasks typically requested of data analysts, institutional researchers, and program evaluators including but not limited to SPSS data management, data transformations, descriptive and inferential analysis, and interpretation of results.

**Prerequisite:** EVAL 65510 or EVAL 75510; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**EVAL 78716 STATISTICS II: ANOVA AND NONPARAMETRIC TESTS**  
**3 Credit Hours**

(Slashed with EVAL 68716) The primary objective of the course is to develop students' understanding of statistical concepts and procedures sufficient for both conducting appropriate statistical analysis and interpreting the results. Authentic research examples are used throughout the course as illustrations of the different methods of conducting statistical analyses for the social sciences. This course is designed to lead students to become informed consumers of intermediate level statistical analyses, specifically analysis of variance (ANOVA) procedures, used in the social sciences.

**Prerequisite:** EVAL 65510 or EVAL 75510; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter



**EVAL 78728 MULTIPLE REGRESSION 3 Credit Hours**

(Slashed with EVAL 68728) The purpose of this course is to develop an understanding of use of multiple regression in the social sciences and related issues, including examining assumptions, diagnosis of outliers and influential data points, determining statistical power, testing for moderation and mediation, etc. The course begins with an introduction to simple models with two predictor variables, and continues to more advanced models, including those with three or more variables, categorical predictors, interactions, non-linear models, and logistic regression.

**Prerequisite:** EVAL 75510; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**EVAL 78735 STRUCTURAL EQUATION MODELING 3 Credit Hours**

(Slashed with EVAL 68735) The purpose of this course is to develop an understanding of the basic concepts of structural equation modeling and the use of path analysis, confirmatory factor analysis, bi-factor and second-order CFA, multitrait-multimethod analysis, multiple sample and multiple group SEM, latent class model, and latent growth modeling covered under the theoretical framework of structural equation modeling. The course familiarizes students with these methods in order to (a) critique a research study with respect to the statistical analysis, and (b) select an appropriate model and be able to apply it.

**Prerequisite:** EVAL 75510 and EVAL 78728; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**EVAL 78745 HIERARCHICAL LINEAR MODELING 3 Credit Hours**

(Slashed with EVAL 68745) This course introduces methods for the analysis of multilevel data and emphasizes practical, hands-on development, analysis and interpretation of hierarchical linear models. Applications will be drawn from education, psychology, other social sciences, and health-related disciplines. Topic coverage includes development of multilevel models, estimation, hypothesis testing, statistical inference, model assessment and residual diagnostics, centering options and impact, treatment of heterogeneity, and introduction to longitudinal analysis via multilevel models.

**Prerequisite:** EVAL 75510 and EVAL 78728; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**EVAL 78806 HIGHER EDUCATION DATA AND INSTITUTIONAL RESEARCH 3 Credit Hours**

(Slashed with EVAL 68806) This course is designed to be an overview of institutional research function and practice, introducing students to the purpose and history of IR, IR terminology and metrics, and IR application to a variety of university areas. The target audiences for this course are: 1) students with an evaluation and measurement background who are interested in applying their skills in a higher education context and 2) students from a higher education and or student affairs background who are looking to better understand higher education data and the applied research that occurs within an institution.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**EVAL 78807 PROGRAM EVALUATION 3 Credit Hours**

(Slashed with EVAL 68807) Study of principles and techniques of evaluation and measurement, and utilization of evidence to improve teaching, learning and implementation programs.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**EVAL 78898 COMPARATIVE RESEARCH DESIGN 3 Credit Hours**

(Repeatable for credit) The course develops the ability of the student to conceptualize the design elements of educational research and to write results of studies.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Research

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**EVAL 80090 DOCTORAL RESIDENCY SEMINAR 3 Credit Hours**

Advanced doctoral residency seminar for students in all areas of educational foundations. Focus on current and emergent issues research and trends in education in multiple settings.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Seminar

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**EVAL 80199 DISSERTATION I 15 Credit Hours**

(Repeatable for credit) Doctoral dissertation for which registration in at least two semesters is required, first of which will be semester in which dissertation work is begun and continuing until the completion of 30 hours.

**Prerequisite:** Doctoral standing; and special approval.

**Schedule Type:** Dissertation

**Contact Hours:** 15 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**EVAL 80299 DISSERTATION II 15 Credit Hours**

(Repeatable for credit) Continuing registration required of doctoral students who have completed the initial 30 hours of dissertation and continuing until all degree requirements are met.

**Prerequisite:** EVAL 80199; and doctoral standing.

**Schedule Type:** Dissertation

**Contact Hours:** 15 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**EVAL 85515 QUANTITATIVE RESEARCH DESIGN AND ANALYSIS 3 Credit Hours**

(Slashed with EVAL 65515) Introduction to quantitative research design and analysis in the social sciences. Students are introduced to various concerns and issues that arise in conducting quantitative research, as well as various quantitative research designs, including experimental, quasi-experimental, and non-experimental research approaches. Students will also learn to critically examine quantitative research reports in terms of reliability and validity. Additionally, students will be introduced to analysis of variance (ANOVA) procedures for analyzing quantitative research designs.

**Prerequisite:** EVAL 65510 or 75510; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**EVAL 85516 QUALITATIVE RESEARCH DESIGN 3 Credit Hours**

(Slashed with EVAL 65516) Introduction to qualitative research approaches, design, and methods. Students learn about the theoretical underpinnings, nature, characteristics, and methods of qualitative research. Students are introduced to several types of qualitative research designs. They learn to engage in critical reading of qualitative research reports. Students also learn to design qualitative research studies.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**EVAL 85517 ADVANCED QUANTITATIVE RESEARCH IN EDUCATIONAL SERVICES 3 Credit Hours**

Advanced quantitative research design and application in educational services. Statistical packages of instructional strategies with methodological principles focus, theoretical models and practical application of experimental and multivariate research design.

**Prerequisite:** EVAL 85515; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**EVAL 85518 ADVANCED QUALITATIVE RESEARCH IN EDUCATIONAL SERVICES 3 Credit Hours**

Utilizes qualitative data in educational services. Applications in qualitative methodology (video techniques) and protocol analysis are applied and evaluated. Generate findings; develop applications to theory; reliability and validity considerations.

**Prerequisite:** EVAL 85515; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**EVAL 85520 MIXED METHODS RESEARCH 3 Credit Hours**

This course provides an overview of theoretical and practical issues pertaining to mixed methods research in educational settings. This overview includes the history and philosophy of mixed methods research, types of mixed methods designs, and various strategies for mixed methods data collection and analysis. Course outcomes include the development of a rationale for mixed methods approaches, critique of published mixed methods educational research, and the design and preliminary implementation of a mixed methods research project.

**Prerequisite:** EVAL 85515 and EVAL 85516; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**EVAL 85530 PRACTITIONER INQUIRY 3 Credit Hours**

(Slashed with EVAL 65530) This course prepares students to engage in practitioner research. It provides an overview of the history, theoretical, ethical, and practical issues related to engaging in practitioner work in a variety of fields. Research design, data collection and analysis are explored and practiced. Students will critique practitioner research and design their own practitioner research study.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**EVAL 85540 GROUNDED THEORY AND PHENOMENOLOGICAL RESEARCH 3 Credit Hours**

This course prepares students to engage in and argue for phenomenological research and grounded theory research. It provides an overview of the history, theoretical, and practical background related to various forms of phenomenological and grounded theory research. Research design, data collection and analysis are explored and practiced. Students will critique phenomenological and grounded theory research and design their own study or pilot a study of one of the two types.

**Prerequisite:** EVAL 85516; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**EVAL 85550 ETHNOGRAPHY AND CASE STUDY RESEARCH 3 Credit Hours**

The purpose of this course is to provide doctoral students advanced instruction in two approaches to qualitative inquiry: ethnography and case study research. In addition to providing students with an understanding of the theoretical perspectives which underlie the methodological approach to case study and ethnographic research, the course is designed to provide numerous opportunities for students to learn and practice techniques for generating, analyzing, writing-up, and using both ethnographic and case study data.

**Prerequisite:** EVAL 85516; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**EVAL 85560 CRITICAL SOCIAL RESEARCH 3 Credit Hours**

Critical social research refers to a diverse set of approaches to research that employ a critical ontological and epistemological lens. Critical researchers work from sets of assumptions about power in the social world articulated by some form of critical theory. This graduate course surveys a range of approaches to critical social research, engaging students in learning about the theoretical foundations and inquiry methods of these diverse approaches.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**EVAL 88791 SEMINAR: EVALUATION AND MEASUREMENT 1-5 Credit Hours**

(Repeatable for credit) Variable topic seminar for advance study of specialized topics and areas in evaluation and measurement; emphasis on theory and research findings as related to educational practice.

**Prerequisite:** Doctoral standing; and special approval.

**Schedule Type:** Seminar

**Contact Hours:** 1-5 other

**Grade Mode:** Standard Letter

**EVAL 88795 SPECIAL TOPICS: EVALUATION AND MEASUREMENT 1-3 Credit Hours**

(Repeatable for credit) Specific topic course offering in response to emerging student or program needs in evaluation and measurement.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 1-3 lecture

**Grade Mode:** Standard Letter

**EVAL 88796 INDIVIDUAL INVESTIGATION IN EVALUATION AND MEASUREMENT 1-3 Credit Hours**

(Repeatable for credit) Specific topic course offering in response to emerging student or program needs in evaluation and measurement.

**Prerequisite:** Doctoral standing; and special approval.

**Schedule Type:** Individual Investigation

**Contact Hours:** 1-3 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**EVAL 88798 RESEARCH IN EVALUATION AND MEASUREMENT 1-15 Credit Hours**

(Repeatable for credit) Students pursue an individual research project on a specific topic in evaluation and measurement of education with approval and under direction of instructor.

**Prerequisite:** Doctoral standing; and special approval.

**Schedule Type:** Research

**Contact Hours:** 1-15 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**Higher Education (HIED)****HIED 46525 CAREERS IN HIGHER EDUCATION 3 Credit Hours**

Familiarize students with the history of higher education; philosophies of higher education, financial, legal and political issues facing higher education; and the careers available in colleges and universities.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HIED 60093 VARIABLE TOPIC WORKSHOP IN HIGHER EDUCATION ADMINISTRATION 1-6 Credit Hours**

(Slashed with HIED 70093) Variable topics; designed to respond to specialized needs of various groups with the contexts of trends, issues and problems in the various higher education disciplines.

**Prerequisite:** Graduate standing.

**Schedule Type:** Workshop

**Contact Hours:** 1-6 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**HIED 66492 INTERNSHIP IN HIGHER EDUCATION ADMINISTRATION 3-6 Credit Hours**

(Slashed with HIED 76492)(Repeatable for a maximum of 12 credit hours) Field-based internship, minimum 150 clock hours, as approved by the program area faculty. Specific topics are outlined and shared at meetings prior to beginning internship.

**Prerequisite:** Graduate standing.

**Schedule Type:** Practical Experience

**Contact Hours:** 10-20 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**HIED 66521 EMPLOYMENT LAW 3 Credit Hours**

(Slashed with HIED 76521) Study of public and private sector bargaining law and all terms and conditions of employment.

**Prerequisite:** Higher education administration and student affairs; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HIED 66558 ADVANCED EDUCATIONAL LEADERSHIP 3 Credit Hours**

(Slashed with HIED 86558) Course provides the opportunity for students to gain additional knowledge and skills in educational leadership, to improve research writing and teaching skills# to share and discuss leadership knowledge and insights with their peers and to defend their work before their peers.

**Prerequisite:** HIED 66657; and graduate standing.

**Schedule Type:** Seminar

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HIED 66594 INTERNSHIP IN COLLEGE TEACHING 3 Credit Hours**

(Repeatable for credit) (Slashed with HIED 76594) Application of course and lesson planning; instructional and evaluation skills under faculty supervision; lecturing, guiding group performance and evaluating performances. Arrangements made on individual basis.

**Prerequisite:** At least 12 hours in higher education; and graduate standing; and special approval.

**Schedule Type:** Practical Experience

**Contact Hours:** 9 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**HIED 66595 SPECIAL TOPICS IN HIGHER EDUCATION ADMINISTRATION 3 Credit Hours**

(Slashed with HIED 76595)(Repeatable for credit) Specialized offerings in response to emerging or selected program needs.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HIED 66596 INDIVIDUAL INVESTIGATION IN HIGHER EDUCATION ADMINISTRATION 2-4 Credit Hours**

(Repeatable for credit) Projects as assigned.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Individual Investigation

**Contact Hours:** 2-4 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**HIED 66598 RESEARCH IN HIGHER EDUCATION ADMINISTRATION 2-8 Credit Hours**

(Repeatable for credit) Projects as assigned.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Research

**Contact Hours:** 2-8 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**HIED 66600 HISTORY OF HIGHER EDUCATION 3 Credit Hours**

(Cross-listed with CULT 69567 and CULT 79567)(Slashed with HIED 76600) Overview and exploration of history of higher education in the United States. Survey course covers ancient and medieval European antecedents, but focuses largely on American higher education from the 17th through the 20th century. Students explore changes in student body curricula and purposes of higher education in the United States in the context of American culture.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HIED 66601 THE PRIVATE LIBERAL ARTS COLLEGE 3 Credit Hours**  
(Slashed with HIED 76601) Explores a unique type of institution in American higher education, the private liberal arts college. Identifies common themes and challenges across institutions as well as the nature of specific examples of institutions.

**Prerequisite:** Higher education administration and student affairs major; and Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HIED 66651 STUDENT AFFAIRS FUNCTIONS IN HIGHER EDUCATION 3 Credit Hours**

(Slashed with HIED 76651) Study of the history, philosophy, practices and organization of student affairs functions in higher education.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HIED 66652 LAW AND HIGHER EDUCATION 3 Credit Hours**

(Slashed with HIED 76652) Provides for the examination of major legal aspects of the administration of institutions of higher learning.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HIED 66653 COLLEGE STUDENT DEVELOPMENT: THEORY AND PRACTICE 3 Credit Hours**

(Slashed with HIED 76653) Study of theories concerning the development of college students and other adults, and the principles for translating theory into practice.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HIED 66654 STUDENTS AND THE COLLEGE ENVIRONMENT 3 Credit Hours**

(Slashed with HIED 76654) Study of the impact of different types of students and college environments on each other and within the context of a changing society.

**Prerequisite:** HIED 66653; and graduate standing; and special approval of instructor.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HIED 66655 CASE STUDIES IN HIGHER EDUCATION ADMINISTRATION 3 Credit Hours**

(Slashed with HIED 76655) Study of management responsibilities and leadership issues of student affairs administrators.

**Prerequisite:** HIED 66652 and HIED 66653 and HIED 66657; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HIED 66656 HIGHER EDUCATION CURRICULUM 3 Credit Hours**

(Slashed with HIED 76656) Introduces perspectives on curriculum development, implementation and assessment in higher education. Course addresses theoretical, historical, political and contemporary perspectives on higher education curriculum.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HIED 66657 LEADERSHIP IN EDUCATION ORGANIZATIONS 3 Credit Hours**

(Slashed with HIED 76657) By learning to appraise their own leadership styles, students improve their leadership effectiveness and explore the relationship between leadership and college and university effectiveness.

**Prerequisite:** Higher education administration and student affairs major; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HIED 66658 THE COMMUNITY COLLEGE 3 Credit Hours**

(Slashed with HIED 76658) A study of the foundations, structure, programs and issues of community college education in the United States.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HIED 66660 FACULTY ROLES AND RESPONSIBILITIES 3 Credit Hours**

(Slashed with HIED 76660) A study of faculty roles and responsibilities in American higher education.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HIED 66662 POLITICS AND POWER IN ORGANIZATIONS 3 Credit Hours**

(Slashed with HIED 76662) Course is designed to provide a conceptual framework for understanding the multifaceted processes of policy-making that take place in both internal and external settings in organizations.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter



**HIED 66663 STATUS OF WOMEN IN HIGHER EDUCATION 3 Credit Hours**

(Slashed with HIED 76663) Provides a comprehensive overview of the historical, contemporary and scholarly perspectives on women students, faculty, administrators and staff. Students explore why and how women and men experience higher education differently, by drawing on scholarly contributions, feminist theoretical and research perspectives and historical, cultural and psychological contexts. The course considers how the context, recognition of power, other dimensions of identities and desire to change society and the academy have fueled and shaped feminist study of the history and condition of women in higher education. Students explore these issues through various media, and they also have the opportunity to investigate a real-life problem of their choice.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HIED 66664 SERVICE LEARNING IN HIGHER EDUCATION 3 Credit Hours**

(Slashed with HIED 76664) Examines the concepts, debate and principles of practice of service-learning in U.S. higher education. Focus is on developing knowledge about service-learning and enhancing skills and competencies for designing service-learning opportunities in higher education. The course involves an active, experiential component. Additionally, as a class, students investigate problem-based service-learning along a continuum of action to discern how it contributes to individual's civic efficacy.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HIED 66665 TECHNOLOGY, SYSTEMS AND DATA IN HIGHER EDUCATION ADMINISTRATION 3 Credit Hours**

(Slashed with HIED 76665) Exploration of technology, systems and data analysis essential to the practice of higher education administration. Students examine and apply tools used for the organization, analysis and dissemination of information, including, but not limited to, ERP systems, learning management systems, web applications for data collection and office productivity software. Students perform tasks typically requested of administrators related to budget or workload management, managing lists and or rosters, exploring trend data for decision-making and generating charts, tables and other data for reporting needs. Survey design and construction using online applications are a significant component of this course. It is strongly advised that students taking the course have moderate experience with office productivity software.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HIED 66666 FINANCIAL MANAGEMENT IN HIGHER EDUCATION 3 Credit Hours**

(Slashed with HIED 76666) Course covers financial issues, sources of funds, economics of education, financial roles of professional and academic administrators and the financial management skills as applicable to institutions of higher education.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HIED 66667 BUSINESS ADMINISTRATION IN HIGHER EDUCATION 3 Credit Hours**

(Slashed with HIED 76667) Course introduces students to the administrative and business management of institutions of higher education. Covers topics on institutional planning, space management, insurance matters, personnel administration and purchasing and facility management.

**Prerequisite:** HIED 66657; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HIED 66669 ADMINISTRATION OF STUDENT DISABILITY SERVICES IN HIGHER EDUCATION 3 Credit Hours**

(Slashed with HIED 76669) Understanding the legal and practical issues regarding the identification, accommodation and matriculation of students with disabilities into colleges and universities.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HIED 66670 INTERNATIONALIZATION OF HIGHER EDUCATION INSTITUTIONS 3 Credit Hours**

(Slashed with HIED 76670) Students study the historical and current development of the internationalization of higher education institutions. They explore higher education administrative leadership characteristics; social, political and economic factors; and national and international relationships that have affected various countries and regions. They also examine rationales behind internationalization of higher education institutions, its meaning and approaches, and the different strategies and organizational models in different types of higher education institutions.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HIED 66671 THE ADMINISTRATION OF MULTICULTURALISM AND DIVERSITY IN HIGHER EDUCATION 3 Credit Hours**

(Slashed with HIED 76671) Course covers racial, ethnic and inclusive diversity and multiculturalism in U.S. higher education settings. Diversity is discussed from a historical perspective, providing a context for contemporary experiences described by and about students, staff, faculty and administrators. Main topics include multiculturalism in higher education in light of inclusive education; racial and ethnic diversity in higher education history; benefits of diversity; faculty issues; student issues; curriculum and pedagogy matters; research issues; law and policy issues; and strategic planning for institution diversity in higher education.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HIED 66672 INTERNATIONAL STUDENTS AND AMERICAN COLLEGES 3 Credit Hours**

(Slashed with HIED 76672) Course bridges theory and application with an emphasis on the latter. The course begins with a national perspective and then concentrates on the various aspects and best practices of recruiting and supporting international students at the institutional level.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter



**HIED 66673 RESEARCH IN ADMINISTRATION OF INTERNATIONAL HIGHER EDUCATION 3 Credit Hours**

(Slashed with HIED 76673) Examines and analyzes research related to higher education administration in the field of international and global education. Implications for application of findings for improvement of colleges and universities at home and abroad is discussed thoroughly.

**Prerequisite:** Higher education administration and student affairs major; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HIED 66674 COMPARATIVE HIGHER EDUCATION 3 Credit Hours**

(Slashed with HIED 76674) Students learn the differences between comparative, international and cross-border education. They reflect on how the U.S. higher education system grew out of specific historical, cultural and socio-economic contexts and analyze the higher education systems and structures of other selected countries and regions, focusing on the contexts which have influenced their development. Students examine emerging trends in the globalization of qualifications frameworks and quality assessment standards, and define their own positions in aspects of the universal criteria/local contexts debate.

**Prerequisite:** Higher education administration and student affairs major; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HIED 66675 DESIGN AND DELIVERY OF EDUCATION ABROAD PROGRAMS 3 Credit Hours**

(Slashed with HIED 76675) Students examine the many critical aspects of designing, planning and implementing an education abroad program. Students analyze components an education abroad program and, with others, design a new program. Students also consider the institutional contexts in which the program design occurs, on a campus or third-party organizational level, including design decisions about curriculum content and program delivery mechanisms, co-curricular activities and safety issues. Students also develop skills in conducting needs assessments and program evaluations.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HIED 66676 INTERCULTURAL COMMUNICATION FOR INTERNATIONAL EDUCATORS 3 Credit Hours**

(Slashed with HIED 76676) Students examine both classic and evolving intercultural communication theories, with an emphasis on the practical application of those theories to working in intercultural environments in higher education. Students analyze cultural influences on individuals, through the reading of cultural biographies and reflection on cultural influences in their own lives. Definitions of intercultural competence and strategies for intercultural learning (particularly in higher education contexts) are reviewed, with implications for program design in education abroad, work with international students and other international education contexts.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HIED 66677 WORKFORCE, ECONOMIC AND COMMUNITY DEVELOPMENT IN COMMUNITY COLLEGES 3 Credit Hours**

(Slashed with HIED 76677) Course examines the role of the community college in workforce, economic and community development and within the context of social, economic and technology shifts.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HIED 66678 ISSUES AND TRENDS IN COMMUNITY COLLEGE ADMINISTRATION 3 Credit Hours**

(Slashed with HIED 76678) Course addresses current salient issues in community college administration. A variety of topics are examined as related to challenges for community college leaders arising from social, economic and political shifts.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HIED 66679 CAREER ADVISING: THEORY AND PRACTICE 3 Credit Hours**

(Slashed with HIED 76679) Develop practical skills in providing developmentally appropriate theory based academic and career advising to assist individuals in adding meaningful and purposeful work into their lives.

**Prerequisite:** Graduate standing.

**Schedule Type:** Seminar

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**HIED 66680 ADMINISTRATION OF CAREER AND ADVISING SERVICES 1 Credit Hour**

(Slashed with HIED 76680) Examines contemporary issues in administration of career and academic advising services. Challenges students to rethink the models and methods used to prepare individuals to enter the workforce and navigate their careers.

**Prerequisite:** Graduate standing.

**Schedule Type:** Seminar

**Contact Hours:** 1 other

**Grade Mode:** Standard Letter

**HIED 66681 ADMINISTRATION OF ADVISING SERVICES 3 Credit Hours**

(Slashed with HIED 76681) Examines contemporary issues in administration of academic advising services. Challenges students to rethink models and methods used to prepare individuals to enter the workforce and navigate their careers.

**Prerequisite:** HIED 66653; and graduate standing.

**Schedule Type:** Seminar

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HIED 66733 INTERPERSONAL AND GROUP DYNAMICS IN EDUCATIONAL ORGANIZATIONS 3 Credit Hours**

(Slashed with HIED 76733) Students working in task groups learn about interpersonal, group and inter-group dynamics in organizations through lectures, discussions and analysis of their in-group experiences.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HIED 66745 EQUITY, JUSTICE AND U.S. HIGHER EDUCATION 3 Credit Hours**

(Slashed with HIED 76745) Examines issues of equity and justice in the U.S. higher education, including historical origins, access to higher education, students' experiences within colleges and universities and outcomes of higher education. Course also focuses on the role of higher education as a social institution, including higher education as a public good and the intersection of higher education with current social issues such as labor and free speech.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HIED 66749 ASSESSMENT AND EVALUATION IN HIGHER EDUCATION 3 Credit Hours**

(Slashed with HIED 76749) Course provides an understanding of current assessment and evaluation methods in higher education settings. Topics span from individual classroom assessment through institutional accreditation processes.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HIED 66771 PLANNING AND IMPLEMENTING STUDY ABROAD WHILE STUDYING ABROAD 3 Credit Hours**

Students learn the principles and practice of designing and delivering effective study- abroad programs through Kent State location in Florence, Italy. Students observe summer programs; study the principles of developing effective study abroad experiences; and meet with university program officials, faculty, facility support staff, private third-party providers of study abroad and the community, in addition to such onsite support services as legal advisors, health professionals and housing offices.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter-IP

**HIED 70093 VARIABLE TOPIC WORKSHOP IN HIGHER EDUCATION ADMINISTRATION 1-6 Credit Hours**

(Slashed with HIED 60093) Variable topics# designed to respond to specialized needs of various groups with the contexts of trends, issues and problems in the various higher education disciplines.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Workshop

**Contact Hours:** 1-6 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**HIED 76492 INTERNSHIP IN HIGHER EDUCATION ADMINISTRATION 3-6 Credit Hours**

(Repeatable for a maximum of 12 credit hours) (Slashed with HIED 66492) Field-based internship of at least 150 clock hours, as approved by the program area faculty. Specific topics are outlined and shared at meetings prior to beginning internship.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Practical Experience

**Contact Hours:** 10-20 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**HIED 76521 EMPLOYMENT LAW 3 Credit Hours**

(Slashed with HIED 66521) Study of public and private sector bargaining law and all terms of employment.

**Prerequisite:** Higher education administration major; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HIED 76594 INTERNSHIP IN COLLEGE TEACHING 3 Credit Hours**

(Repeatable for credit) (Slashed with HIED 66594) Application of course and lesson planning; instructional and evaluation skills under faculty supervision; lecturing, guiding group performance and evaluating performances. Arrangements made on individual basis.

**Prerequisite:** At least 12 hours in higher education; and doctoral standing; and special approval.

**Schedule Type:** Practical Experience

**Contact Hours:** 9 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**HIED 76595 SPECIAL TOPICS IN HIGHER EDUCATION ADMINISTRATION 3 Credit Hours**

(Slashed with HIED 66595)(Repeatable for credit) Specialized offerings in response to emerging or selected program needs.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HIED 76596 INDIVIDUAL INVESTIGATION IN HIGHER EDUCATION ADMINISTRATION 2-4 Credit Hours**

(Repeatable for credit) Projects as assigned.

**Prerequisite:** Doctoral standing; and special approval.

**Schedule Type:** Individual Investigation

**Contact Hours:** 2-4 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**HIED 76598 RESEARCH IN HIGHER EDUCATION ADMINISTRATION 2-8 Credit Hours**

(Repeatable for credit) Projects as assigned.

**Prerequisite:** Doctoral standing; and special approval.

**Schedule Type:** Research

**Contact Hours:** 2-8 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**HIED 76600 HISTORY OF HIGHER EDUCATION 3 Credit Hours**

(Cross-listed with CULT 69567 and CULT 79567)(Slashed with HIED 66600) Overview and exploration of history of higher education in the United States. Survey course covers ancient and medieval European antecedents, but focuses largely on American higher education from the 17th through the 20th century. Students explore changes in student body curricula and purposes of higher education in the United States in the context of American culture.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HIED 76601 THE PRIVATE LIBERAL ARTS COLLEGE 3 Credit Hours**  
(Slashed with HIED 66601) Explores a unique type of institution in American higher education, the private liberal arts college. Identifies common themes and challenges across institutions as well as the nature of specific examples of institutions.

**Prerequisite:** Higher education administration major; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HIED 76651 STUDENT AFFAIRS FUNCTIONS IN HIGHER EDUCATION 3 Credit Hours**

(Slashed with HIED 66651) Study of the history, philosophy, practices and organization of student affairs functions in higher education.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HIED 76652 LAW AND HIGHER EDUCATION 3 Credit Hours**

(Slashed with HIED 66652) Provides for the examination of major legal aspects of the administration of institutions of higher learning.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HIED 76653 COLLEGE STUDENT DEVELOPMENT: THEORY AND PRACTICE 3 Credit Hours**

(Slashed with HIED 66653) Study of theories concerning the development of college students and other adults, and the principles for translating theory into practice.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HIED 76654 STUDENTS AND THE COLLEGE ENVIRONMENT 3 Credit Hours**

(Slashed with HIED 66654) Study of the impact of different types of students and college environments on each other and within the context of a changing society.

**Prerequisite:** HIED 76653; and doctoral standing; and special approval of the instructor.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HIED 76655 CASE STUDIES IN HIGHER EDUCATION ADMINISTRATION 3 Credit Hours**

(Slashed with HIED 66655) Study of management responsibilities and leadership issues of student affairs administrators.

**Prerequisite:** HIED 76652 and 76653 and 76657; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HIED 76656 HIGHER EDUCATION CURRICULUM 3 Credit Hours**

(Slashed with HIED 66656) Introduces perspectives on curriculum development, implementation and assessment in higher education and addresses theoretical, historical, political and contemporary perspectives on higher education curriculum.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HIED 76657 LEADERSHIP IN EDUCATION ORGANIZATIONS 3 Credit Hours**

(Slashed with HIED 66657) By learning to appraise their own leadership styles, students improve their leadership effectiveness and explore the relationship between leadership and college and university effectiveness.

**Prerequisite:** Higher education administration major; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HIED 76658 THE COMMUNITY COLLEGE 3 Credit Hours**

(Slashed with HIED 66658) A study of the foundations, structure, programs and issues of community college education in the United States.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HIED 76660 FACULTY ROLES AND RESPONSIBILITIES 3 Credit Hours**

(Slashed with HIED 66660) A study of faculty roles and responsibilities in American higher education.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HIED 76662 POLITICS AND POWER IN ORGANIZATIONS 3 Credit Hours**

(Slashed with HIED 66662) Course is designed to provide a conceptual framework for understanding the multifaceted processes of policy-making that take place in both internal and external settings in organizations.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HIED 76663 STATUS OF WOMEN IN HIGHER EDUCATION 3 Credit Hours**

(Slashed with HIED 66663) Provides a comprehensive overview of the historical, contemporary and scholarly perspectives on women students, faculty, administrators and staff. Students explore why and how women and men experience higher education differently, by drawing on scholarly contributions, feminist theoretical and research perspectives and historical, cultural and psychological contexts. The course considers how the context, recognition of power, other dimensions of identities and desire to change society and the academy have fueled and shaped feminist study of the history and condition of women in higher education. Students explore these issues through various media, and they also have the opportunity to investigate a real-life problem of their choice.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HIED 76664 SERVICE LEARNING IN HIGHER EDUCATION 3 Credit Hours**

(Slashed with HIED 66664) Examines the concepts, debate and principles of practice of service-learning in U.S. higher education. Focus is on developing knowledge about service-learning and enhancing skills and competencies for designing service-learning opportunities in higher education. The course involves an active, experiential component. Additionally, as a class, students investigate problem-based service-learning along a continuum of action to discern how it contributes to individual's civic efficacy.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HIED 76665 TECHNOLOGY, SYSTEMS AND DATA IN HIGHER EDUCATION ADMINISTRATION 3 Credit Hours**

(Slashed with HIED 66665) Exploration of technology, systems and data analysis essential to the practice of higher education administration. Students examine and apply tools used for the organization, analysis and dissemination of information, including, but not limited to, ERP systems, learning management systems, web applications for data collection and office productivity software. Students perform tasks typically requested of administrators related to budget or workload management, managing lists and or rosters, exploring trend data for decision-making and generating charts, tables and other data for reporting needs. Survey design and construction using online applications are a significant component of this course. It is strongly advised that students taking the course have moderate experience with office productivity software.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HIED 76666 FINANCIAL MANAGEMENT IN HIGHER EDUCATION 3 Credit Hours**

(Slashed with HIED 66666) Course covers financial issues, sources of funds, economics of education, financial roles of professional and academic administrators and the financial management skills as applicable to institutions of higher education.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HIED 76667 BUSINESS ADMINISTRATION IN HIGHER EDUCATION 3 Credit Hours**

(Slashed with HIED 66667) Course introduces students to the administrative and business management of institutions of higher education. Covers topics on institutional planning, space management, insurance matters, personnel administration and purchasing and facility management.

**Prerequisite:** HIED 76657; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HIED 76669 ADMINISTRATION OF STUDENT DISABILITY SERVICES IN HIGHER EDUCATION 3 Credit Hours**

(Slashed with HIED 66669) Understanding the legal and practical issues regarding the identification, accommodation and matriculation of students with disabilities into colleges and universities.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HIED 76670 INTERNATIONALIZATION OF HIGHER EDUCATION INSTITUTIONS 3 Credit Hours**

(Slashed with HIED 66670) Students study the historical and current development of the internationalization of higher education institutions. They explore higher education administrative leadership characteristics; social, political and economic factors; and national and international relationships that have affected various countries and regions. They also examine rationales behind internationalization of higher education institutions, its meaning and approaches, and the different strategies and organizational models in different types of higher education institutions.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HIED 76671 THE ADMINISTRATION OF MULTICULTURALISM AND DIVERSITY IN HIGHER EDUCATION 3 Credit Hours**

(Slashed with HIED 66671) Course covers racial, ethnic and inclusive diversity and multiculturalism in U.S. higher education settings. Diversity is discussed from a historical perspective providing a context for contemporary experiences described by and about students, staff, faculty and administrators. Main topics include multiculturalism in higher education in light of inclusive education; racial and ethnic diversity in higher education history; benefits of diversity; faculty issues; student issues; administrator and leadership issues; curriculum and pedagogy matters; research issues; law and policy issues and strategic planning for institutional diversity in higher education.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HIED 76672 INTERNATIONAL STUDENTS AND AMERICAN COLLEGES 3 Credit Hours**

(Slashed with HIED 66672) Course bridges theory and application with an emphasis on the latter. The course begins with a national perspective and then concentrates on the various aspects and best practices of recruiting and supporting international students at the institutional level.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter



**HIED 66673 RESEARCH IN ADMINISTRATION OF INTERNATIONAL HIGHER EDUCATION 3 Credit Hours**

(Slashed with HIED 66673) Examines and analyzes research related to higher education administration in the field of international and global education. Implications for application of findings for improvement of colleges and universities at home and abroad is discussed thoroughly.

**Prerequisite:** Higher education administration major; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HIED 66674 COMPARATIVE HIGHER EDUCATION 3 Credit Hours**

(Slashed with HIED 66674) Students learn the differences between comparative, international and cross-border education. They reflect on how the United States higher education system grew out of specific historical, cultural and socio-economic contexts and analyze the higher education systems and structures of other selected countries and regions, focusing on the contexts which have influenced their development. Students examine emerging trends in the globalization of qualifications frameworks and quality assessment standards, and define their own positions in aspects of the universal criteria/local contexts debate.

**Prerequisite:** Higher education administration major; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HIED 66675 DESIGN AND DELIVERY OF EDUCATION ABROAD PROGRAMS 3 Credit Hours**

(Slashed with HIED 66675) Students examine the many critical aspects of designing, planning and implementing an education abroad program. Students analyze components an education abroad program and, with others, design a new program. Students also consider the institutional contexts in which the program design occurs, on a campus or third-party organizational level, including design decisions about curriculum content and program delivery mechanisms, co-curricular activities and safety issues. Students also develop skills in conducting needs assessments and program evaluations.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HIED 66676 INTERCULTURAL COMMUNICATION FOR INTERNATIONAL EDUCATORS 3 Credit Hours**

(Slashed with HIED 66676) Students examine both classic and evolving intercultural communication theories, with an emphasis on the practical application of those theories to working in intercultural environments in higher education. Students analyze cultural influences on individuals, through the reading of cultural biographies and reflection on cultural influences in their own lives. Definitions of intercultural competence and strategies for intercultural learning (particularly in higher education contexts) are reviewed, with implications for program design in education abroad, work with international students and other international education contexts.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HIED 66677 WORKFORCE, ECONOMIC AND COMMUNITY DEVELOPMENT IN COMMUNITY COLLEGES 3 Credit Hours**

(Slashed with HIED 66677) Course examines the role of the community college in workforce, economic and community development and within the context of social, economic and technology shifts.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HIED 66678 ISSUES AND TRENDS IN COMMUNITY COLLEGE ADMINISTRATION 3 Credit Hours**

(Slashed with HIED 66678) Course addresses current salient issues in community college administration. A variety of topics are examined as related to challenges for community college leaders arising from social, economic and political shifts.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HIED 66679 CAREER ADVISING: THEORY AND PRACTICE 3 Credit Hours**

(Slashed with HIED 66679) Develop practical skills in providing developmentally appropriate theory based academic and career advising to assist individuals in adding meaningful and purposeful work into their lives.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Seminar

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**HIED 66680 ADMINISTRATION OF CAREER AND ADVISING SERVICES 1 Credit Hour**

(Slashed with HIED 66680) Examines contemporary issues in administration of career and academic advising services. Challenges students to rethink the models and methods used to prepare individuals to enter the workforce and navigate their careers.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Seminar

**Contact Hours:** 1 other

**Grade Mode:** Standard Letter

**HIED 66681 ADMINISTRATION OF ADVISING SERVICES 3 Credit Hours**

(Slashed with HIED 66681) Examines contemporary issues in administration of academic advising services. Challenges students to rethink models and methods used to prepare individuals to enter the workforce and navigate their careers.

**Prerequisite:** HIED 66653; and doctoral standing.

**Schedule Type:** Seminar

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HIED 66733 INTERPERSONAL AND GROUP DYNAMICS IN EDUCATIONAL ORGANIZATIONS 3 Credit Hours**

(Slashed with HIED 66733) Students working in task groups learn about interpersonal, group and inter-group dynamics in organizations through lectures, discussions and analysis of their in-group experiences.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter



**HIED 76745 EQUITY, JUSTICE AND U.S. HIGHER EDUCATION 3****Credit Hours**

(Slashed with HIED 66745) Examines issues of equity and justice in U.S. higher education, including historical origins, access to higher education, students' experiences within colleges and universities, and outcomes of higher education. Course also focuses on the role of higher education as a social institution, including higher education as a public good and the intersection of higher education with current social issues such as labor and free speech.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HIED 76749 ASSESSMENT AND EVALUATION IN HIGHER EDUCATION****3 Credit Hours**

(Slashed with HIED 66749) This course is designed to provide an understanding of current assessment and evaluation methods in higher education settings. Topics will span from individual classroom assessment through institutional accreditation processes.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HIED 80080 DISSERTATION PREPARATION SEMINAR 3 Credit Hours**

Students gain an in-depth understanding of the dissertation writing process to complete their dissertation proposal.

**Prerequisite:** Doctoral standing; and special approval.

**Schedule Type:** Seminar

**Contact Hours:** 3 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**HIED 80199 DISSERTATION I 15 Credit Hours**

(Repeatable for credit) Doctoral dissertation for which registration in at least two semesters is required, the first of which is a semester in which dissertation work is begun and continuation of 30 hours.

**Prerequisite:** Doctoral standing; and special approval.

**Schedule Type:** Dissertation

**Contact Hours:** 15 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**HIED 80299 DISSERTATION II 15 Credit Hours**

(Repeatable for credit) Continuing registration required of doctoral students who have completed the initial 30 hours of dissertation and continuing until all degree requirements are met.

**Prerequisite:** HIED 80199; and doctoral standing.

**Schedule Type:** Dissertation

**Contact Hours:** 15 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**HIED 86558 ADVANCED EDUCATIONAL LEADERSHIP 3 Credit Hours**

(Slashed with HIED 66558) Course provides the opportunity for students to gain additional knowledge and skills in educational leadership, to improve research writing and teaching skills# to share and discuss leadership knowledge and insights with their peers and to defend their work before their peers.

**Prerequisite:** HIED 76657; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HIED 86559 ADVANCED STUDENT AND ADULT DEVELOPMENT 3****Credit Hours**

Students develop an in-depth understanding of one or more current theories of student or adult development. They gain additional knowledge in student development theory and theory creation.

**Prerequisite:** Higher education administration major; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Hospitality Management (HM)****HM 13022 SANITATION AND SAFETY PRINCIPLES AND PRACTICES****3 Credit Hours**

Food safety and sanitation practices for restaurants and foodservices as related to foodborne illness prevention, food purchasing, receiving, storage, preparation, cooling and heating practices, and sanitation of dishes and overall facility. HACCP plans, microbiological concerns related to foods, government regulations and inspections, and employee safety and accident prevention are covered.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** CTAG Culinary and Food Service

**HM 13023 TECHNIQUES OF FOOD PRODUCTION 6 Credit Hours**

Commercial food production principles for milk, cheese, eggs, produce, grains, meats, poultry and fish are covered. Sauces, soups, salads, entrees, side dishes and desserts are prepared with an emphasis on food quality and safety, effective equipment use, work planning and simplification, recipe standardization, pricing and presentation.

**Prerequisite:** HM 13022; and hospitality management major.

**Schedule Type:** Laboratory, Lecture, Combined Lecture and Lab

**Contact Hours:** 3 lecture, 6 lab

**Grade Mode:** Standard Letter

**Attributes:** CTAG Culinary and Food Service

**HM 13024 INTRODUCTION TO HOSPITALITY MANAGEMENT 3 Credit Hours**

Career opportunities and the scope, development and history of the hospitality industry. Introduction to management in the hospitality industry including food service, lodging and tourism.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** CTAG Culinary and Food Service

**HM 21095 SPECIAL TOPICS IN HOSPITALITY MANAGEMENT 1-4 Credit Hours**

(Repeatable for a maximum of 8 credit hours) Discussion of a major discipline or subject within the hospitality industry.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 1-4 lecture

**Grade Mode:** Standard Letter

**HM 23012 INTRODUCTORY FOOD SCIENCE 3 Credit Hours**

(Cross-listed with NUTR 23012) Principles of food preparation and quality evaluation, with an emphasis on food science concepts, nutrition, food consumption trends and government regulation.

**Prerequisite:** NUTR 23511.

**Schedule Type:** Laboratory, Lecture, Combined Lecture and Lab

**Contact Hours:** 2 lecture, 3 lab

**Grade Mode:** Standard Letter

**Attributes:** TAG Health

**HM 23030 HOTEL OPERATIONS 3 Credit Hours**

The purpose of this course is to give students a basic understanding of the overall hotel operations. Students will be introduced to the principles and practices of managerial functions relating to the operation of hotels and other accommodations.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** CTAG Culinary and Food Service

**HM 23510 QUANTITY FOOD PRODUCTION, SERVICE AND SAFETY 3 Credit Hours**

(Cross-listed with NUTR 23510) The application of management principles in quantity food production and service systems, including safety and sanitation; production forecasting and management; distribution; and service, commercial equipment and physical facilities. Introduction to inventory, recipe standardization and considerations of nutrition, quality and sustainability in quantity production.

**Prerequisite:** NUTR 23112.

**Schedule Type:** Laboratory, Lecture, Combined Lecture and Lab

**Contact Hours:** 2 lecture, 3 lab

**Grade Mode:** Standard Letter

**HM 33020 LEGAL ISSUES IN THE HOSPITALITY INDUSTRY 3 Credit Hours**

Overview and analysis of legal issues of concern to the hospitality operation. Topics include employment law, food and beverage liabilities, patron civil rights, local, state, and federal regulations; and franchising.

**Prerequisite:** Junior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HM 33026 HOSPITALITY COST CONTROL AND ANALYSIS 3 Credit Hours**

Prepares students to analyze and control costs encountered in hospitality operations. Includes computer applications, math drills and simulations.

**Prerequisite:** ACCT 23020, CIS 24053 and HM 13023.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HM 33028 HOSPITALITY PURCHASING 3 Credit Hours**

Emphasis on the selection of food, goods and services for the management of hospitality organizations. Emphasis is placed on product identification, grading and quality standards.

**Prerequisite:** HM 13023.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HM 33029 CATERING AND BANQUET MANAGEMENT 3 Credit Hours**

The course includes an in-depth analysis of all components of the catering profession including management, legal aspects, getting started in business, catering contracts, menu planning, beverage service, catering equipment, catering logistics, personnel, marketing, pricing, sanitation and safety practices, purchasing, accessory services, accounting and control practices.

**Prerequisite:** HM 33026.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HM 33031 FOOD, WINE AND BEVERAGE PAIRING 3 Credit Hours**

Provides knowledge of the sensory relationship of food, wine, beer and other spirits and the important role this process has on hospitality operations. Topics include developing an understanding of wine, beer and food pairing as a hierarchical process. Menu development and cooking the food play an important role in this class; food is chosen first then paired with the appropriate beverage. Students must be 21 years old to enroll in the class.

**Prerequisite:** None.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 2 lecture, 2 lab

**Grade Mode:** Standard Letter

**HM 33036 CLUB MANAGEMENT 3 Credit Hours**

Introduction to private club management and operations. Strategic planning, marketing, human resources, service excellence, legal issues and financial management will be emphasized within the context of food and beverage, golf and recreation.

**Prerequisite:** Junior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HM 33040 CONVENTION SALES AND MANAGEMENT 3 Credit Hours**

From a sales and convention management perspective, the convention and meetings industry is examined. Students are introduced to all facets of the conventions and meetings industry.

**Prerequisite:** HM 23030; and junior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HM 33050 PROFESSIONAL PRACTICE IN HOSPITALITY MANAGEMENT 1 Credit Hour**

Preparation of students for professional work experiences in hospitality management. Career development and professional workplace issues are addressed.

**Prerequisite:** Meet hospitality management professional study requirements; and junior standing.

**Schedule Type:** Lecture

**Contact Hours:** 1 lecture

**Grade Mode:** Standard Letter

**HM 33070 INTERNATIONAL CUISINE 4 Credit Hours**

Provides comprehensive coverage of cuisines found throughout the world, not only through recipes and techniques but also through coverage of the history, culture, geography, religion, and locally grown ingredients that influence these various cuisines. The intent is to increase learning and retention through repetitive practice cooking, using recipes steeped in culinary history and culture from around the world.

**Prerequisite:** Sophomore standing.

**Schedule Type:** Laboratory, Lecture, Combined Lecture and Lab

**Contact Hours:** 1.5 lecture, 5 lab

**Grade Mode:** Standard Letter

**HM 33145 BAKING AND PASTRY FUNDAMENTALS 3 Credit Hours**

Building on the theoretical and practical foundations of Baking and Pastry Fundamentals, this course will help students develop advanced skills and knowledge in the production and selection of quality handcrafted and purchased products. Scientific principles and experimental methods will be explored and addition emphasis will be placed on advanced decorating and finishing techniques, yeast breads, sweet doughs, cakes, tortes, chocolate work.

**Prerequisite:** None.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 1.5 lecture, 4 lab

**Grade Mode:** Standard Letter

**HM 37777 CASINO MANAGEMENT AND GAMING OPERATIONS 3 Credit Hours**

Introduction to the various aspects of the casino and gaming industry. Students study the structure of casino organizations, gain basic understanding of gaming operations and responsible gaming. Casino environments are experienced through on-site visitations. Funds for travel are the student's responsibility, and all students must be legal age of 21 prior to on-site class visitations.

**Prerequisite:** Special approval.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 2.5 lecture, 1 lab

**Grade Mode:** Standard Letter

**HM 41093 VARIABLE TOPIC WORKSHOP IN HOSPITALITY MANAGEMENT 1-3 Credit Hours**

(Repeatable for credit) Workshop setting dealing with a topic or topics in hospitality management. Learning experiences are provided in a wide range of areas.

**Prerequisite:** None.

**Schedule Type:** Workshop

**Contact Hours:** 1-3 other

**Grade Mode:** Satisfactory/Unsatisfactory

**HM 41095 SPECIAL TOPICS IN HOSPITALITY MANAGEMENT 1-4 Credit Hours**

(Repeatable for credit) Discussion of a major topic within a specific field of hospitality management.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 1-4 lecture

**Grade Mode:** Standard Letter

**HM 41096 INDIVIDUAL INVESTIGATION 1-3 Credit Hours**

(Repeatable for credit) Independent study in hospitality management.

**Prerequisite:** Written permission from instructor.

**Schedule Type:** Individual Investigation

**Contact Hours:** 1-3 other

**Grade Mode:** Standard Letter

**HM 43025 HOSPITALITY MARKETING 3 Credit Hours**

Application of marketing principles, practices and theories relevant to hospitality organizations. Case studies drawn from the hospitality industry are incorporated.

**Prerequisite:** HM 13023 and MGMT 24163 and MKTG 25010.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HM 43027 HOSPITALITY HUMAN RESOURCE MANAGEMENT (WIC) 3 Credit Hours**

(Slashed with HM 53027) Application of human resource management principles, practices, theories and legal issues relevant to hospitality organizations. Hospitality management focused case studies are incorporated.

**Prerequisite:** HM 13023 and HRM 34180.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Writing Intensive Course

**HM 43029 HOSPITALITY FINANCIAL POLICY 3 Credit Hours**

(Slashed with HM 53029) Developing financial analysis skills and decision making capabilities for short-and long-term financial management problems in the unique setting of service industries with a specific focus on hospitality organizations, restaurants, clubs and resorts, through case analysis.

**Prerequisite:** HM 33026.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HM 43030 FOOD SERVICE SYSTEMS MANAGEMENT 3 Credit Hours**

(Slashed with HM 53030)(Cross-listed with NUTR 43030 and NUTR 53030) Food service systems management, including systems theory; menu planning and evaluation; procurement; food production systems; sustainability; layout and design basics. Management concepts in non-commercial food service, including financial control, marketing, quality, management, leadership and human resources.

**Prerequisite:** HM 23012 or NUTR 23012; and HM 23510 or NUTR 23510.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** TAG Health

**HM 43031 LAYOUT AND DESIGN OF FOOD SERVICE OPERATIONS 3 Credit Hours**

Analysis and planning for the layout and design of commercial food service operations. Includes basic principles of design; space analysis; and equipment use, care, selection and layout for food service facilities based on the financial performance of the operation; food codes and related regulations. An appreciation for engineering and architecture concerns pertaining to food service operations is developed.

**Prerequisite:** HM 33026.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HM 43035 HOSPITALITY SERVICE QUALITY MANAGEMENT 3 Credit Hours**

(Slashed with HM 53035) Tourism and hospitality are service industries. A significant element in these industries is management of the service encounters which will be the focus this course. In order to provide a comprehensive, inter- and multi-disciplinary view, the course will be constructed in three modules. The first module will present the characteristics and dynamics of the service encounter. The second module will focus on successful service encounters (service quality) and its outcome (customer satisfaction). The third module will present the dynamics of service failure and service recovery. The three modules of this course will provide an opportunity to understand the dynamics of the service encounter, to manage service quality and to learn how to identify service failure and plan for service recovery.

**Prerequisite:** MGMT 24163.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HM 43040 STRATEGIC HOTEL MANAGEMENT 3 Credit Hours**

(Slashed with HM 53040) The hotel manager's role as a strategic thinker is emphasized. Techniques such as co-alignment model, brand strategy, competitor analysis, market research, risk management and finance options are used to develop strategic plans in hotels.

**Prerequisite:** HM 23030 and HM 33026.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 2 lecture, 2 lab

**Grade Mode:** Standard Letter

**HM 43043 HOSPITALITY MEETINGS MANAGEMENT 3 Credit Hours**

(Slashed with HM 53043) Exploration of the unique issues associated with managing hospitality meeting and event planning. Emphasis on management of social, association and corporate events, weddings, reunions, award banquets, receptions and annual meetings held in hospitality venues requiring food and beverage and/or lodging.

**Prerequisite:** HM 23030 and HM 33026.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HM 43092 PRACTICUM IN HOSPITALITY MANAGEMENT (ELR) 3-6 Credit Hours**

(Repeatable for a total of 6 credit hours) Supervised professional experience in the hospitality industry including operations such as restaurants, hotels, clubs, health care, theme parks and food distribution. Course assignments are included. Repeatable for a total of 6 credits.

**Prerequisite:** HM 33050; and junior or senior standing; and special approval.

**Schedule Type:** Practical Experience

**Contact Hours:** 19-37 other

**Grade Mode:** Satisfactory/Unsatisfactory

**Attributes:** Experiential Learning Requirement

**HM 43192 HOSPITALITY MEETINGS MANAGEMENT PRACTICUM (ELR) 2 Credit Hours**

(Slashed with HM 53192) Practical experience in a hospitality establishment related to: inside and outside event sales, event management, guest services, food and beverage management, event staff scheduling, banquet operations, maintenance and housekeeping related to events.

**Corequisite:** HM 43043.

**Schedule Type:** Practical Experience

**Contact Hours:** 6 other

**Grade Mode:** Standard Letter

**Attributes:** Experiential Learning Requirement

**HM 51092 HOSPITALITY AND TOURISM MANAGEMENT PROFESSIONAL PRACTICUM 3 Credit Hours**

Supervised professional experience in the hospitality and-or tourism industry including operations such as restaurants, hotels, clubs, resorts, theme parks, and casinos. Minimum of 405 hours in the field.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Practical Experience

**Contact Hours:** 27 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**HM 53025 HOSPITALITY MARKETING 3 Credit Hours**

(Slashed with HM 53025) Application of marketing principles, practices and theories relevant to hospitality organizations. Internet marketing in hospitality. Case studies drawn from the hospitality industry are incorporated.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HM 53027 HOSPITALITY HUMAN RESOURCE MANAGEMENT 3 Credit Hours**

(Slashed with HM 43027) Application of human resource management principles, practices, theories and legal issues relevant to hospitality organizations. Hospitality management focused case studies and current controversies are incorporated.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HM 53029 HOSPITALITY FINANCIAL POLICY 3 Credit Hours**

(Slashed with HM 43029) Developing financial analysis skills and decision making capabilities for short-and long-term financial management problems in the unique setting of service industries with a specific focus on hospitality organizations, restaurants, clubs and resorts, through case analysis.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HM 53030 FOOD SERVICE SYSTEMS MANAGEMENT 3 Credit Hours**  
(Slashed with HM 43030)(Cross-listed with NUTR 43030 and NUTR 53030) Food service systems management, including systems theory; menu planning and evaluation; procurement; food production systems; sustainability; layout and design basics. Management concepts in non-commercial food service, including financial control, marketing, quality, management, leadership and human resources.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HM 53035 HOSPITALITY SERVICE QUALITY MANAGEMENT 3 Credit Hours**

(Slashed with HM 43035) Tourism and hospitality are service industries. A significant element in these industries is management of the service encounters which will be the focus this course. In order to provide a comprehensive, inter- and multi-disciplinary view, the course will be constructed in three modules. The first module will present the characteristics and dynamics of the service encounter. The second module will focus on successful service encounters (service quality) and its outcome (customer satisfaction). The third module will present the dynamics of service failure and service recovery. The three modules of this course will provide an opportunity to understand the dynamics of the service encounter, to manage service quality and to learn how to identify service failure and plan for service recovery.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HM 53040 STRATEGIC HOTEL MANAGEMENT 3 Credit Hours**

(Slashed with HM 43040) The hotel manager's role as a strategic thinker is emphasized. Techniques such as co-alignment model, brand strategy, competitor analysis, market research, risk management and finance options are used to develop strategic plans in hotels.

**Prerequisite:** Graduate standing.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 2 lecture, 2 lab

**Grade Mode:** Standard Letter

**HM 53043 HOSPITALITY MEETINGS MANAGEMENT 3 Credit Hours**

(Slashed with HM 43043) Exploration of the unique issues associated with managing hospitality meeting and event planning. Emphasis on management of social, association and corporate events, weddings, reunions, award banquets, receptions and annual meetings held in hospitality venues requiring food and beverage and/or lodging.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HM 53192 HOSPITALITY MEETINGS MANAGEMENT PRACTICUM 2 Credit Hours**

(Slashed with HM 43192) Practical experience in a hospitality establishment related to: inside and outside event sales, event management, guest services, food and beverage management, event staff scheduling, banquet operations, maintenance and housekeeping related to events.

**Prerequisite:** Graduate standing; and special approval.

**Corequisite:** HM 53043.

**Schedule Type:** Practical Experience

**Contact Hours:** 2 lab

**Grade Mode:** Standard Letter

**HM 61098 RESEARCH IN HOSPITALITY MANAGEMENT 1-15 Credit Hours**

(Repeatable for credit) Research for master's-level graduate students. Credit earned may be applied toward meeting degree requirements if school approves.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Research

**Contact Hours:** 1-15 other

**Grade Mode:** Standard Letter

**HM 61198 MASTERS PROJECT IN HOSPITALITY MANAGEMENT 2-6 Credit Hours**

(Repeatable for credit) Completion and successful defense of master's project. Master's project students must register for a total of 6 credit hours, 2-6 in a single semester; distributed over several semesters if desired.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Research

**Contact Hours:** 2-6 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**HM 61199 THESIS I 2-6 Credit Hours**

(Repeatable for credit) Thesis students register for a total of 6 credit hours, 2 to 6 hours in a single semester, distributed over several semesters if desired.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Masters Thesis

**Contact Hours:** 2-6 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**HM 61299 THESIS II 2 Credit Hours**

(Repeatable for credit) Thesis II students must continue registration each semester until all degree requirements are met.

**Prerequisite:** HM 61199; and graduate standing.

**Schedule Type:** Masters Thesis

**Contact Hours:** 2 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**HM 63022 CURRENT ISSUES IN HOSPITALITY AND TOURISM MANAGEMENT 3 Credit Hours**

Current research and management issues in hotels, resorts, restaurants, clubs and other hospitality operations are explored through the peer-reviewed and professional literature. Current tourism topics with implications for hospitality managers are included.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HM 63024 MANAGEMENT OF FOOD AND NUTRITION SERVICES 3 Credit Hours**

Management issues in healthcare, food and nutrition services, child nutrition programs and other noncommercial food services will be examined. The impact of quality standards, public policy and current societal trends upon management of noncommercial operations will be studied.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter



**HM 63026 RESEARCH SEMINAR 1 Credit Hour**

(Repeatable once for credit) Presentation and discussion of research and projects by students and faculty. 2 credit hours to be applied toward degree requirements.

**Prerequisite:** Graduate standing.

**Corequisite:** SPAD 63098 or 63199 or 63299; or HM 61198 or 61199 or 61299.

**Schedule Type:** Seminar

**Contact Hours:** 1 other

**Grade Mode:** Standard Letter

**HM 63092 HOSPITALITY AND TOURISM MANAGEMENT PRACTICUM 1 Credit Hour**

Supervised professional experience in a hospitality or travel and tourism setting. This course is supervised by a practitioner and faculty member(s) with whom the student works closely. Course assignments are included.

**Prerequisite:** Hospitality and tourism management major; and graduate standing.

**Schedule Type:** Practical Experience

**Contact Hours:** 20 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**HM 63095 SPECIAL TOPICS IN HOSPITALITY MANAGEMENT 1-3 Credit Hours**

(Repeatable for credit) Specialized offering of a major topic within hospitality management.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 1-3 lecture

**Grade Mode:** Standard Letter

**HM 64010 HOSPITALITY AND TOURISM MANAGEMENT CAPSTONE 3 Credit Hours**

This capstone course provides a comprehensive view of the business setting of hospitality and tourism organizations. The course includes a review of the competitive business environments, competitive advantage, above-average performance and competitive strategies as they pertain to hospitality and tourism management. The course will highlight current strategic issues in hospitality and tourism management referring to the most recent literature (practitioners' literature and academic journals). The course concludes with a capstone group case analysis of a business problem in hospitality and, or tourism.

**Prerequisite:** RPTM 56000 or HM 53025; and MIS 64005 or EVAL 65510; and HM 63022, RPTM 65041 and RPTM 65047; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Satisfactory/Unsatisfactory

**Recreation, Park, and Tourism Management (RPTM)****RPTM 16000 FOUNDATIONS OF RECREATION AND LEISURE 3 Credit Hours**

Historical examination of the park and recreation movement, sociological, economic, psychological and political considerations for the delivery of leisure and recreation services in contemporary society.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**RPTM 16001 CAREER EXPLORATION IN RECREATION, PARK, AND TOURISM MANAGEMENT 1 Credit Hour**

Introduction to career opportunities in Recreation, Park, and Tourism Management. Includes public, non-profit, and commercial settings and site visits.

**Pre/corequisite:** RPTM 16000.

**Schedule Type:** Lecture

**Contact Hours:** 1 lecture

**Grade Mode:** Standard Letter

**RPTM 26001 INTRODUCTION TO COMMUNITY INCLUSION FOR INDIVIDUALS WITH DISABILITIES 3 Credit Hours**

Interdisciplinary exploration of conceptual theoretical, philosophical and legal aspects related to inclusion of individuals with disabilities in community life.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**RPTM 26010 COMMUNITY DEVELOPMENT IN RECREATION 3 Credit Hours**

Explores the contemporary and historical roles, organization and services of public and non-profit leisure service providers. Includes various theoretical perspectives on community organization and development as well as methods available to the recreation practitioner to facilitate the development of recreation services in communities.

**Prerequisite:** RPTM 16000.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**RPTM 26030 LEADERSHIP IN RECREATION, PARKS AND TOURISM 3 Credit Hours**

Leadership concepts, principles, methods and techniques necessary for facilitating beneficial recreation activities for diverse populations.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**RPTM 26060 INTRODUCTION TO GLOBAL TOURISM (DIVG) 3 Credit Hours**

(Cross-listed with GEOG 22040) Introduction to travel and tourism around the world. Students study tourism technologies and cultural and natural environments as attractions, benefits of travel, travel ethics and sustainable development.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Diversity Global

**RPTM 26071 MAINTENANCE AND OPERATION OF AREAS AND FACILITIES 3 Credit Hours**

A systems approach for the effective maintenance and operation of areas and facilities.

**Prerequisite:** RPTM 16000.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**RPTM 26081 PRINCIPLES OF OUTDOOR RECREATION 3 Credit Hours**

Introduction to outdoor recreation including historical and cultural perspectives, outdoor recreation resources, environmental aspects, trends and management.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**RPTM 36010 RECREATION, LEISURE AND AGING 3 Credit Hours**

Knowledge and understanding of leisure and aging. Planning and implementing recreation programs and activities for enriching the lives of older persons.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**RPTM 36040 INCLUSION OF PEOPLE WITH DISABILITIES IN LEISURE SERVICES (DIVD) 3 Credit Hours**

An examination of attitudes toward people with disabilities, characteristics of various disability groups, the role and responsibility of leisure service providers to be inclusive of all individuals and techniques for adapting programs.

**Prerequisite:** RPTM 26030.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Diversity Domestic

**RPTM 36060 ENTREPRENEURIAL APPROACHES TO LEISURE AND HOSPITALITY SERVICES 3 Credit Hours**

Principles of commercial recreation and tourism services, including entrepreneurship, economic concepts of the for-profit recreation industries and management skills.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**RPTM 36075 PROGRAM DESIGN AND EVALUATION 3 Credit Hours**

Programming leisure services within a socio-cultural context, involving understanding and assessing client behavior and needs, proficiency in program design and implementation, and knowledge of evaluation methods reflective of a service-centered and benefits approach.

**Prerequisite:** RPTM 26030.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**RPTM 36081 ADVENTURE EDUCATION 3 Credit Hours**

Introduction to adventure education, the history and philosophy, initiatives, ropes courses, adventure curricula and the basics of outdoor leadership and process facilitation.

**Prerequisite:** RPTM 26030 and RPTM 26081.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**RPTM 36082 INTERPRETATION OF NATURAL AND CULTURAL RESOURCES 3 Credit Hours**

Interpretation is the art of creating intellectual and emotional bonds between people and natural and cultural resources. Interpretation is commonly practiced in parks and other protected areas, zoos, museums and a variety of tourist attractions. This course provides students with the philosophies, concepts and practical techniques necessary to plan and present effective interpretation of natural and cultural resources.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**RPTM 36083 ENVIRONMENTAL EDUCATION AND CONSERVATION 3 Credit Hours**

Environmental education helps people better understand the natural world and to develop attitudes and behaviors conducive to environmental conservation. Teaches students the foundations, principles and techniques of environmental education thus enabling students to prepare and present effective environmental education programs. Prerequisite:

None

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**RPTM 36085 LEISURE AND CULTURE (DIVD) 3 Credit Hours**

Leisure behaviors and beliefs for people from diverse cultures, factors perpetuating inequity in the United States and strategies for leisure programming in a pluralistic society.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Diversity Domestic

**RPTM 36911 WILDERNESS AND REMOTE FIRST AID FOR PROFESSIONALS AND EDUCATORS 3 Credit Hours**

Students build first aid knowledge skills and behaviors through a variety of learning strategies to individually help in an emergency. A key focus is on how to work in limited resource environments or remote environments (i.e., foreign countries, wilderness, air travel). Then students learn and demonstrate how to prepare others, and be a leader during emergencies through practical experiences. Course is taught and assessed in a cognitively, physically, and emotionally stressed manner. This course includes three weekends and include outdoors experiences. Successful completion of the course may result in American Red Cross certification and Instructor status.

**Prerequisite:** None.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 1.5 lecture, 3 lab

**Grade Mode:** Standard Letter

**RPTM 45031 SPORT TOURISM 3 Credit Hours**

(Cross-listed with SPAD 45031) Course incorporates both theoretical learning of travel for sports as a global phenomenon and application of such knowledge in hosting a sporting event with travel as the focus. The experiential, cultural and economic aspects of sport tourism are examined. Students demonstrate their ability to prepare a sport tourism plan upon the completion of the course.

**Prerequisite:** Junior or senior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**RPTM 46000 TOURISM DEVELOPMENT AND RECREATIONAL TRAVEL 3 Credit Hours**

(Cross-listed with GEOG 42040)(Slashed with RPTM 56000) Investigation of travel and tourism development using an interdisciplinary social science approach.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**RPTM 46001 PRINCIPLES AND METHODS OF COMMUNITY INCLUSION 3 Credit Hours**

(Slashed with RPTM 56001) Interdisciplinary approach to the principles and methods of designing an inclusive environment. Focus is on characteristics of disability groups and societal considerations to making adaptations and accommodations. Students complete a service learning component that focuses on inclusion of people with disabilities in community life.

**Prerequisite:** RPTM 26001.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**RPTM 46030 DYNAMICS OF LEISURE BEHAVIOR (WIC) 3 Credit Hours**

(Slashed with RPTM 56030) Analysis of leisure behavior through an examination of social-psychological theories and research.

**Prerequisite:** RPTM 36040 and RPTM 36075.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Writing Intensive Course

**RPTM 46060 ADMINISTRATION OF LEISURE SERVICES 3 Credit Hours**

(Slashed with RPTM 56060) Administrative practices of private and public leisure service agencies. Organization, philosophy, personnel and fiscal management, public relations and legal concerns are examined.

**Prerequisite:** RPTM 36040 and RPTM 36075.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**RPTM 46070 PARK PLANNING 3 Credit Hours**

(Slashed with RPTM 56070) Understanding the relationship between recreation places and the people who use them. This includes the planning, design and functioning of public and commercial recreation places. Prerequisite: RPTM 26081

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**RPTM 46091 SEMINAR FOR INTERNSHIP PREPARATION 1 Credit Hour**

(Repeatable for credit) Planning and preparation for the internship experience in leisure service settings. Students should register for this course two semesters before enrolling in the internship course.

**Prerequisite:** Recreation, Park, and Tourism Management (RPTM) major and junior standing.

**Schedule Type:** Seminar

**Contact Hours:** 1 lecture

**Grade Mode:** Satisfactory/Unsatisfactory

**RPTM 46092 INTERNSHIP IN RECREATION (ELR) 12 Credit Hours**

(Repeatable for credit) Supervised full-time experience providing knowledge of overall agency operation in approved leisure setting.

**Prerequisite:** RPTM 46091; and senior standing; and special approval.

**Schedule Type:** Practical Experience

**Contact Hours:** 40 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**Attributes:** Experiential Learning Requirement

**RPTM 46095 SELECTED TOPICS IN RECREATION 1-3 Credit Hours**

(Repeatable for a maximum of 6 credit hours)Selected topics dependent upon interest.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**RPTM 46096 INDIVIDUAL INVESTIGATION IN RECREATION 1-3 Credit Hours**

(Repeatable for a maximum of 6 credit hours)Independent study completed under the supervision of a faculty member. Written approval of the supervising faculty member and school director required prior to registration.

**Prerequisite:** Junior standing; and special approval.

**Schedule Type:** Individual Investigation

**Contact Hours:** 3-9 other

**Grade Mode:** Standard Letter-IP

**RPTM 56000 TOURISM DEVELOPMENT AND RECREATIONAL TRAVEL 3 Credit Hours**

Investigation of travel and tourism development using an interdisciplinary social science approach.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**RPTM 56001 PRINCIPLES AND METHODS OF COMMUNITY INCLUSION PRINCIPLES AND METHODS OF COMMUNITY INCLUSION 3 Credit Hours**

(Slashed with RPTM 46001) Interdisciplinary approach to the principles and methods of designing an inclusive environment. Focus is on characteristics of disability groups and societal consideration to making adaptations and accommodations. Students complete a service learning component that focuses on inclusion of people with disabilities in community life.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**RPTM 56030 DYNAMICS OF LEISURE BEHAVIOR 3 Credit Hours**

(Slashed with RPTM 46030) Analysis of leisure behavior through examination of social-psychological theories and research.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Grade Mode:** Standard Letter

**RPTM 56060 ADMINISTRATION OF LEISURE SERVICES 3 Credit Hours**

(Slashed with RPTM 46060) Administrative practices of private and public leisure service agencies. Organization, philosophy, personnel and fiscal management, public relations and legal concerns are examined.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**RPTM 56070 PARK PLANNING 3 Credit Hours**

(Slashed with RPTM 46070) Understanding the relationship between recreation places and the people who use them. This includes the planning, design and functioning of public and commercial recreation places.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**RPTM 65041 TOURISM AND HOSPITALITY REVIEW 3 Credit Hours**

Reviews academic tourism and hospitality literature to provide students with a theoretical and empirical understanding of the tourism phenomenon. Issues include tourist motivations; the social, cultural and environmental impacts of tourism; tourism and development; and the impact of hospitality services on tourism.

**Prerequisite:** RPTM 56000; and graduate standing.

**Schedule Type:** Lecture

**Grade Mode:** Standard Letter

**RPTM 65047 GLOBAL ISSUES OF TOURISM TRADE 3 Credit Hours**

An examination of international and intercultural changes due to travel and tourism, particularly in economic, social and environmental areas. The studies include theories and cases and form the basis upon which a sustainable tourism policy is developed. The goal of the course is to prepare students for a leadership role in tourism policy making. The course has an emphasis on reading and discussion.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Grade Mode:** Standard Letter

**RPTM 65061 PHILOSOPHICAL AND SOCIAL BASES OF LEISURE AND SPORT 3 Credit Hours**

(Slashed with RPTM 75061) Overview of philosophical and social foundations of leisure and sport. Contemporary theories and perspectives are examined.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**RPTM 75061 PHILOSOPHICAL AND SOCIAL BASES OF LEISURE AND SPORT 3 Credit Hours**

(Slashed with RPTM 65061) Overview of philosophical and social foundations of leisure and sport. Contemporary theories and perspectives are examined.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Sports Administration (SPAD)****SPAD 15000 INTRODUCTION TO SPORT ADMINISTRATION 3 Credit Hours**

This course is designed to introduce students to the field of sport administration. Students will be made aware of the career options available to them in the sport management profession. All course materials, assignments and class discussions will emphasize both the understanding and application of key concepts across various aspects of the sport industry. Students will also be introduced to the sport administration major curriculum and requirements. Recommend first course in the sport administration program sequences.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPAD 15015 ORIENTATION TO PROFESSIONAL GOLF MANAGEMENT 1 Credit Hour**

An overview of opportunities and responsibilities in the golf profession. Emphasis on concepts, techniques and practices of teaching golf skills; understanding the PGA Constitution, rules of golf, tournament golf operations and golf car fleet management.

**Prerequisite:** Special approval.

**Schedule Type:** Lecture

**Contact Hours:** 1 lecture

**Grade Mode:** Standard Letter

**SPAD 25000 SPORT IN SOCIETY (DIVD) 3 Credit Hours**

Analysis of how sport relates to the social relations and cultural values of United States society. The course is framed by a critical evaluative perspective, examining how social class, ethnicity, race and gender relations contour sport practices.

**Prerequisite:** Sophomore standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Diversity Domestic

**SPAD 25092 PRACTICUM I IN SPORT ADMINISTRATION (ELR) 1-3 Credit Hours**

(Repeatable for credit) A 105-hour (per credit) field experience in a sport management setting.

**Prerequisite:** Special approval from instructor.

**Schedule Type:** Practical Experience

**Contact Hours:** 7-21 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**Attributes:** Experiential Learning Requirement

**SPAD 25192 PRACTICUM IN PROFESSIONAL GOLF MANAGEMENT I (ELR) 1-3 Credit Hours**

(Repeatable for a maximum of 3 credit hours) A cumulative 105-hour (per credit) on-campus seminar and field experience in a professional golf management setting.

**Prerequisite:** SPAD 15015; and special approval.

**Schedule Type:** Practical Experience

**Contact Hours:** 7-21 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**Attributes:** Experiential Learning Requirement

**SPAD 35021 GOVERNANCE IN SPORT 3 Credit Hours**

Issues of governance in amateur and professional sports.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPAD 35025 FACILITY MANAGEMENT 3 Credit Hours**

Overview of planning, staffing, marketing and managing sport facilities and complexes. The primary emphasis in this course is on management, personnel and operations issues.

**Prerequisite:** Junior; or senior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPAD 35065 HISTORY AND PHILOSOPHY OF SPORT AND PHYSICAL ACTIVITY (WIC) 3 Credit Hours**

Historical and philosophical foundations of sport and physical education; a study of factors influencing pedagogical, curricular and evaluation decisions in sport and physical education programs today.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Writing Intensive Course

**SPAD 35092 PRACTICUM II IN SPORT ADMINISTRATION (ELR) 1-3 Credit Hours**

(Repeatable for credit) A 105-hour (per credit) field experience in a sport management setting.

**Prerequisite:** SPAD 25092; and special approval from instructor.

**Schedule Type:** Practical Experience

**Contact Hours:** 7-21 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**Attributes:** Experiential Learning Requirement

**SPAD 35192 PRACTICUM IN PROFESSIONAL GOLF MANAGEMENT II (ELR) 1-3 Credit Hours**

(Repeatable for a maximum of 3 credit hours) A cumulative 105-hour (per credit) on-campus seminar and field experience in a professional golf management setting.

**Prerequisite:** SPAD 15015 and SPAD 25192; and special approval.

**Schedule Type:** Practical Experience

**Contact Hours:** 7-21 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**Attributes:** Experiential Learning Requirement

**SPAD 45015 GOLF MANAGEMENT II 2 Credit Hours**

An in-depth study of the business of golf. Topics include maintaining a high performance work environment and motivating techniques for staff, delegating assignments, managing performance problems, merchandise assortment plans, vendor relations, inventory management and merchandise display and promotion.

**Prerequisite:** SPAD 15015.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 1 lecture, 1 lab

**Grade Mode:** Standard Letter

**SPAD 45021 ORGANIZATION AND ADMINISTRATION OF ATHLETICS 3 Credit Hours**

An understanding of theories necessary to run an efficient athletic department at all levels, including budgeting, leadership and administrative theory, organizational structure, personnel, legal issues and facilities.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPAD 45022 EVENT PLANNING AND PRODUCTION 3 Credit Hours**

(Slashed with SPAD 55022) Students learn the proper planning process that all sport events undergo. Students apply these concepts in actual events that they develop and hold.

**Prerequisite:** MKTG 25010; and junior or senior standing.

**Schedule Type:** Laboratory, Lecture, Combined Lecture and Lab

**Contact Hours:** 2 lecture, 2 lab

**Grade Mode:** Standard Letter

**SPAD 45023 SPORT MARKETING 3 Credit Hours**

The course, which is designed around market planning, examines how to formulate market ideas, incorporate market research, select segmentation, targeting and positioning strategies, implement sales and promotion strategies and assess control procedures within the sport and entertainment industry.

**Prerequisite:** MKTG 25010.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPAD 45024 SPORT IN GLOBAL PERSPECTIVE 3 Credit Hours**

(Slashed with SPAD 55024) Students critically analyze how sport relates to general features of globalization and provide insight into the connection between global and local politics (including ethnic, religious, gender, environmental and sociospatial politics). The underlying assumption is that sport is part of a growing network of global interdependencies that bind human beings together.

**Prerequisite:** Senior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPAD 45026 SPORT AND THE MEDIA 3 Credit Hours**

(Slashed with SPAD 55026) Course offers an introduction to current scholarship and issues concerning sport and the media, including critical analysis of media representations with attention to gender, race, sexuality and disability; an examination of the structure of sports journalism and production; and an analysis of the role of mediated sport in culture more generally. The roles of institutions, producers, texts and audiences and their relationships to each other are examined.

**Prerequisite:** Junior or senior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPAD 45027 PUBLIC RELATIONS AND PROMOTION IN SPORT 3 Credit Hours**

Issues in public relations and promotion of sport such as advertising, crisis management, sales promotion and atmospherics.

**Prerequisite:** MKTG 25010.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter



**SPAD 45029 HISTORY AND CURRENT ISSUES IN COLLEGIATE ATHLETICS 3 Credit Hours**

(Slashed with SPAD 55029) Examination of the historical development of athletics within American institutions of higher learning, with an emphasis upon concepts and ideals that underlie the developments and the major problems affecting contemporary intercollegiate athletics.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPAD 45030 SPORT ENTERPRISE (WIC) 3 Credit Hours**

This is a capstone course for sport administration majors. The course which is designed around business planning for sport, examines how to formulate business ideas, select a legal form of organization, locate financing sources, assess the market, develop a human resource management system and establish budget control.

**Prerequisite:** Senior standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Writing Intensive Course

**SPAD 45031 SPORT TOURISM 3 Credit Hours**

(Cross-listed with RPTM 45031) (Slashed with SPAD 55031) Course incorporates both theoretical learning of travel for sports as a global phenomenon and application of such knowledge in hosting a sporting event with travel as the focus. The experiential, cultural and economic aspects of sport tourism are examined. Students demonstrate their ability to prepare a sport tourism plan upon the completion of the course.

**Prerequisite:** Junior or senior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPAD 45032 SALES MANAGEMENT IN SPORT AND ENTERTAINMENT 3 Credit Hours**

(Slashed with SPAD 55032) Students are introduced to the area of sales-force management in sport and entertainment. Historical, theoretical and conceptual frameworks are examined thoroughly, as well as functions, activities and skills of the professional salesperson in the age of information and technology.

**Prerequisite:** Junior or senior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPAD 45033 CHANGE YOUR MIND, GAME AND LIFE 1 Credit Hour**

(Slashed with SPAD 55033) Course focuses students on mental training to enhance sport performance and have personal growth experiences. Course assists students to tap into their inner potential by refocusing their mind, to learn they are responsible for their own life experiences, to learn that the things they want most in their lives are found within themselves and to take responsibility for their upsets.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 1 lecture

**Grade Mode:** Standard Letter

**SPAD 45034 ESPORT MANAGEMENT 3 Credit Hours**

(Slashed with SPAD 55034) Students will learn about the esports industry, its consumer and constituents. Also, students will investigate the steps and components necessary to manage esports teams and esports events.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPAD 45035 SPORTS WAGERING 3 Credit Hours**

(Slashed with SPAD 55035) This course investigates the sports wagering industry. Students will learn about the different forms of wagering, the statutes and cases impacting sports wagering as well as impact on society of increased access to sports wagering.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPAD 45091 SEMINAR FOR INTERNSHIP PREPARATION 1 Credit Hour**

(Repeatable for credit) This course prepares the students for the internship experience in sport administration. Students must successfully complete this course prior to registering for internship.

**Prerequisite:** Minimum 2.500 overall GPA; Senior standing and special approval.

**Schedule Type:** Seminar

**Contact Hours:** 1 other

**Grade Mode:** Standard Letter

**SPAD 45092 INTERNSHIP IN SPORT ADMINISTRATION (ELR) 3-12 Credit Hours**

(Repeatable for credit) Supervised full-time experience providing knowledge of overall agency operation in approved sport management setting. 50 contact hours per credit hour.

**Prerequisite:** SPAD 35092 and SPAD 45091; minimum 2.500 overall GPA; and special approval.

**Schedule Type:** Practical Experience

**Contact Hours:** 10-40 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**Attributes:** Experiential Learning Requirement

**SPAD 45096 INDIVIDUAL INVESTIGATION IN SPORT ADMINISTRATION 1-3 Credit Hours**

(Repeatable for a maximum of 12 credit hours) Individual investigation in sport administration. Faculty approval is required.

**Prerequisite:** Sport administration major; and special approval.

**Schedule Type:** Individual Investigation

**Contact Hours:** 1-3 other

**Grade Mode:** Standard Letter-IP

**SPAD 45192 INTERNSHIP IN PROFESSIONAL GOLF MANAGEMENT (ELR) 2-12 Credit Hours**

(Repeatable for credit) Supervised full-time experience providing knowledge of overall agency operation in approved sport administration, professional golf management setting. 100 contact hours per credit hour with seminar interactive requirements.

**Prerequisite:** SPAD 15015 and SPAD 25192; and special approval.

**Schedule Type:** Practical Experience

**Contact Hours:** 13-80 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**Attributes:** Experiential Learning Requirement

**SPAD 46028 SPORT IN FILM 3 Credit Hours**

(Slashed with SPAD 56028) Critically evaluates the role of sport in film as it relates to a variety of issues in society.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPAD 46080 LEGAL ISSUES IN SPORT AND RECREATION 3 Credit Hours**

(Slashed with SPAD 56080) A discussion of legal issues as they apply to the sport and recreation industries.

**Prerequisite:** Junior or senior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPAD 46095 SPECIAL TOPICS IN SPORT ADMINISTRATION 1-3 Credit Hours**

(Repeatable for credit) Special topics in Sport Administration.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 1-3 lecture

**Grade Mode:** Standard Letter

**SPAD 50020 HIGH PERFORMANCE ATHLETES IN SPORT 3 Credit Hours**

(Slashed with SEPP 40020) This course provides an understanding of various aspects of training, coaching, and best practices in working with athletes in a high-performance environment along with an emphasis on the social-psychological factors related to the successful performance of elite level athletes and teams.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPAD 53093 VARIABLE TITLE WORKSHOP IN SPORT ADMINISTRATION 1-3 Credit Hours**

(Repeatable for credit) Topics vary in sport studies. Maximum 4 credit hours may be applied to degree.

**Prerequisite:** Graduate standing.

**Schedule Type:** Workshop

**Contact Hours:** 1-3 other

**Grade Mode:** Satisfactory/Unsatisfactory

**SPAD 55007 PRINCIPLES AND APPLICATION OF SPORT PSYCHOLOGY 3 Credit Hours**

(Cross-listed with SEPP 45007) This course encompasses the most current developments in the field of psychology with a strong foundation of the principles of human behavior in the sport and movement sciences. It incorporates sound practical theory with a focus on the application of that knowledge to be readily used by students in a range of sport and movement science careers; such as athletic training, coaching, sport management, consulting, physical education teachers and related areas with the goal to improve the sport performance and experience for all.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPAD 55022 EVENT PLANNING AND PRODUCTION 3 Credit Hours**

(Slashed with SPAD 45022) Students learn the proper planning process that all sport events undergo. Students apply these concepts in actual events that they develop and hold.

**Prerequisite:** Graduate standing.

**Schedule Type:** Laboratory, Lecture, Combined Lecture and Lab

**Contact Hours:** 2 lecture, 2 lab

**Grade Mode:** Standard Letter

**SPAD 55024 SPORT IN GLOBAL PERSPECTIVE 3 Credit Hours**

(Slashed with SPAD 45024) Students critically analyze how sport relates to general features of globalization and provide insight into the connection between global and local politics (including ethnic, religious, gender, environmental and sociospatial politics). The underlying assumption is that sport is part of a growing network of global inter-dependencies that bind human beings together.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPAD 55026 SPORT AND THE MEDIA 3 Credit Hours**

(Slashed with SPAD 45026) Course offers an introduction to current scholarship and issues concerning sport and the media, including critical analysis of media representations with attention to gender, race, sexuality and disability; an examination of the structure of sports journalism and production; and an analysis of the role of mediated sport in culture more generally. The roles of institutions, producers, texts and audiences and their relationships to each other are examined.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPAD 55029 HISTORY AND CURRENT ISSUES IN COLLEGIATE ATHLETICS 3 Credit Hours**

(Slashed with SPAD 45029) Examination of the historical development of athletics within American institutions of higher learning, with an emphasis upon concepts and ideals that underlie the developments and the major problems affecting contemporary intercollegiate athletics.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPAD 55031 SPORT TOURISM 3 Credit Hours**

(Cross-listed with RPTM 45031) (Slashed with SPAD 45031) Course incorporates both theoretical learning of travel for sports as a global phenomenon and application of such knowledge in hosting a sporting event with travel as the focus. The experiential, cultural and economic aspects of sport tourism are examined. Students demonstrate their ability to prepare a sport tourism plan upon the completion of the course.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPAD 55032 SALES MANAGEMENT IN SPORT AND ENTERTAINMENT 3 Credit Hours**

(Slashed with SPAD 45032) Students are introduced to the area of sales-force management in sport and entertainment. Historical, theoretical and conceptual frameworks are examined thoroughly, as well as functions, activities and skills of the professional salesperson in the age of information and technology.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPAD 55033 CHANGE YOUR MIND, GAME AND LIFE 1 Credit Hour**

(Slashed with SPAD 45033) Course focuses students on mental training to enhance sport performance and have personal growth experiences. Course assists students to tap into their inner potential by refocusing their mind, to learn they are responsible for their own life experiences, to learn that the things they want most in their lives are found within themselves and to take responsibility for their upsets.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 1 lecture

**Grade Mode:** Standard Letter

**SPAD 55034 ESPORT MANAGEMENT 3 Credit Hours**

(Slashed with SPAD 45034) Students will learn about the esports industry, its consumer and constituents. Also, students will investigate the steps and components necessary to manage esports teams and esports events.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPAD 55035 SPORTS WAGERING 3 Credit Hours**

(Slashed with SPAD 45035) This course investigates the sports wagering industry. Students will learn about the different forms of wagering, the statutes and cases impacting sports wagering as well as impact on society of increased access to sports wagering. Prerequisite: Graduate Standing

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture, 0 lab, 0 other

**Grade Mode:** Standard Letter

**SPAD 55300 MOTIVATION IN SPORT, PERFORMANCE, AND MOVEMENT SETTINGS 3 Credit Hours**

(Slashed with SEPP 45300) This course provides an in-depth and wide-ranging look at motivational theories and its application to sport, performance and physical activity. It combines the many theoretical concepts of the diverse frameworks and principles with a survey of motivational interventions performed in the sport domain. Students will leave the class with a rigorous and comprehensive knowledge of constructs, cutting-edge research, effective interventions and future outlook of motivation in sport.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPAD 56028 SPORT IN FILM 3 Credit Hours**

(Slashed with SPAD 46028) Critically evaluates the role of sport in film as it relates to a variety of issues in society.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPAD 56030 DYNAMICS OF LEISURE BEHAVIOR 3 Credit Hours**

(Cross-listed with RPTM 46030) Analysis of leisure behavior through examination of social-psychological theories and research.

**Prerequisite:** RPTM 36040 and RPTM 36075; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPAD 56080 LEGAL ISSUES IN SPORT AND RECREATION 3 Credit Hours**

(Slashed with SPAD 46080) A discussion of legal issues as they apply to the sport and recreation industries.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPAD 63018 ETHICS IN SPORT 3 Credit Hours**

(Slashed with SPAD 73018) Examination of selected situations in sport from an ethical reasoning perspective. Students undertake a problem-oriented case study approach that is based upon contemporary moral issues and moral theory.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPAD 63091 RESEARCH SEMINAR 1 Credit Hour**

(Slashed with SPAD 73091) Presentation and discussion of research by faculty and students. Maximum 2 credit hours may be applied toward degree requirements.

**Prerequisite:** Graduate standing.

**Schedule Type:** Seminar

**Contact Hours:** 1 other

**Grade Mode:** Satisfactory/Unsatisfactory

**SPAD 63096 INDIVIDUAL INVESTIGATION IN SPORT ADMINISTRATION 1-3 Credit Hours**

(Repeatable for maximum 6 credit hours) Independent study completed under the supervision of a faculty member. Written approval of supervising faculty member and school director required prior to registration.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Individual Investigation

**Contact Hours:** 1-3 other

**Grade Mode:** Standard Letter-IP

**SPAD 63098 RESEARCH 1-6 Credit Hours**

(Repeatable for credit) Research carried out by the student under the supervision of a faculty member.

**Prerequisite:** Graduate standing.

**Schedule Type:** Research

**Contact Hours:** 3-18 other

**Grade Mode:** Standard Letter-IP

**SPAD 63195 SPECIAL TOPICS IN SPORT ADMINISTRATION 1-3 Credit Hours**

(Repeatable for credit) Selected and varied topics of relevance in sport administration.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 1-3 lecture

**Grade Mode:** Standard Letter

**SPAD 63199 THESIS I 2-6 Credit Hours**

(Repeatable for credit) Highly-individualized investigative study resulting in developing and writing a scholarly, comprehensive paper. Thesis students must register for a total of 6 credit hours, 2 to 6 credit hours in a semester distributed over several semesters if desired.

**Prerequisite:** Graduate standing.

**Schedule Type:** Masters Thesis

**Contact Hours:** 6-18 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**SPAD 63299 THESIS II 2 Credit Hours**

Highly-individualized investigative study resulting in developing and writing a scholarly, comprehensive paper. Thesis students must continue registration each semester until all degree requirements are met.

**Prerequisite:** SPAD 63199; and graduate standing.

**Schedule Type:** Masters Thesis

**Contact Hours:** 6 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**SPAD 65006 CONTEMPORARY ISSUES IN SPORT MANAGEMENT 3 Credit Hours**

(Slashed with SPAD 75006) A comprehensive examination of current topics impacting administrations of professional and amateur sport programs from the local to international level.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPAD 65008 SOCIOLOGY OF SPORT AND PHYSICAL ACTIVITY 3 Credit Hours**

(Slashed with SPAD 75008) Sociological analysis of sport from a theoretical and empirical perspective.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPAD 65021 ORGANIZATION AND MANAGEMENT OF SPORTS PROGRAMS 3 Credit Hours**

A study of the pragmatic understanding necessary in the organization and management of a sports program at the high school, college or professional level.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPAD 65031 SOCIAL PSYCHOLOGY OF SPORT 3 Credit Hours**

(Slashed with SPAD 75031) Psychological, social and developmental factors of participation and behavior in sport exercise and recreational activities. Theoretical and applied perspectives addressed.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPAD 65033 SPORT LAW 3 Credit Hours**

Course provides students with a basic understanding of tort, contract and constitutional law in relation to sport.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPAD 65034 CONTEMPORARY SPORT LAW 3 Credit Hours**

(Slashed with SPAD 75034) Legal principles of antitrust law, injunctions, labor law and agency in sport, with a focus on professional sports.

**Prerequisite:** SPAD 65033; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPAD 65036 SPORT IN HIGHER EDUCATION 3 Credit Hours**

Identification of contemporary problems and issues in collegiate sport, their history and the role of sport in colleges and universities now and in the future.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPAD 65037 NATIONAL COLLEGIATE ATHLETIC ASSOCIATION COMPLIANCE ADMINISTRATION 3 Credit Hours**

This course introduces students to basic NCAA compliance principles and the NCAA rules that affect the administration of a college athletic department. This course offers an understanding of the structure and function of a Division I compliance operation and explores compliance at the Divisions II & III level. The governing principles of institutional control and ethical conduct will be explored from a compliance perspective.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPAD 65038 SPORT PROMOTION AND FUNDRAISING 3 Credit Hours**

(Slashed with SPAD 75038) Analysis of contemporary sports promotions strategies, as well as promotion of fundraising tactics.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPAD 65039 FINANCIAL ASPECTS OF SPORT 3 Credit Hours**

Review of basic accounting, sources and uses of funds, capital budgeting, leasing and investments as they apply in a sports context. Students are introduced to financial software used in the sport industry.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPAD 65040 SPORT ECONOMICS 3 Credit Hours**

Course provides students with key economic theories and principles as applied to the sport industry.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPAD 65042 LEADERSHIP OF SPORT 3 Credit Hours**

Study of theoretical and applied constructs foundational to the leadership behavior applied to sport.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter



**SPAD 65045 SPORT MARKETING 3 Credit Hours**

Students develops an understanding of strategic marketing concepts and principles as they apply to the context of sport and entertainment. Students examine a variety of topics related to the marketing mix, consumer/fan behavior and research methodology. They also explore sport, entertainment and business organization relationships.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPAD 65046 FACILITY MANAGEMENT AND OPERATIONS 3 Credit Hours**

Analysis of management competencies necessary to operate sport facilities. Conceptual and technical aspects of planning and design are introduced.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPAD 65048 INTRAMURAL AND CLUB SPORT ADMINISTRATION 3 Credit Hours**

Students focus on developing an understanding of how these programs work and what role they play in various recreational environments. Course emphasizes decision-making techniques and communication skills leading to effective planning, organizing and managing a recreational sports-related service or product.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPAD 65092 INTERNSHIP IN SPORT ADMINISTRATION 2-4 Credit Hours**

(Repeatable for credit) Field experience involving supervised contact with sport administrators. Students work as an understudy with these administrators in all phases of their positions.

**Prerequisite:** Graduate standing and special approval.

**Schedule Type:** Practical Experience

**Contact Hours:** 13-27 other

**Grade Mode:** Standard Letter-IP

**SPAD 73018 ETHICS IN SPORT 3 Credit Hours**

(Slashed with SPAD 63018) Examination of selected situations in sport from an ethical reasoning perspective. Students undertake a problem-oriented case study approach that is based upon contemporary moral issues and moral theory.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPAD 73091 RESEARCH SEMINAR 1 Credit Hour**

(Slashed with SPAD 63091) Presentation and discussion of research by faculty and students. Maximum 2 credit hours may be applied toward degree requirements.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Seminar

**Contact Hours:** 1 other

**Grade Mode:** Satisfactory/Unsatisfactory

**SPAD 75006 CONTEMPORARY ISSUES IN SPORT MANAGEMENT 3 Credit Hours**

(Slashed with SPAD 65006) A comprehensive examination of current topics impacting administrations of professional and amateur sport programs from the local to international level.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPAD 75008 SOCIOLOGY OF SPORT AND PHYSICAL ACTIVITY 3 Credit Hours**

(Slashed with SPAD 65008) Sociological analysis of sport from a theoretical and empirical perspective.

**Prerequisite:** SPAD 75006; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPAD 75031 SOCIAL PSYCHOLOGY OF SPORT 3 Credit Hours**

(Slashed with SPAD 65031) Psychological, social and developmental factors of participation and behavior in sport exercise and recreational activities. Theoretical and applied perspectives addressed.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPAD 75034 CONTEMPORARY SPORT LAW 3 Credit Hours**

(Slashed with SPAD 65034) Legal principles of antitrust law, injunctions, labor law and agency in sport, with a focus on professional sports.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPAD 75038 SPORT PROMOTION AND FUNDRAISING 3 Credit Hours**

(Slashed with SPAD 65038) Analysis of contemporary sports promotions strategies, as well as promotion of fundraising tactics.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

## School of Health Sciences

### Athletic Training (ATTR)

**ATTR 15001 INTRODUCTION TO CLINICAL ATHLETIC TRAINING I 2 Credit Hours**

An overview of the profession of athletic training; including employment opportunities, academic and clinical preparation; and introduction to basic knowledge and skills utilized in the profession. Emphasis on leadership, mentoring, ethics and research from an introductory perspective.

**Prerequisite:** Athletic training major.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 1 lecture, 2 lab

**Grade Mode:** Standard Letter



**ATTR 15002 INTRODUCTION TO SPORTS MEDICINE CAREERS 2 Credit Hours**

An overview of the profession of athletic training as well as other similar sports medicine fields; including employment opportunities, academic preparation and clinical preparation. Emphasis on leadership, mentoring, ethics and research from an introductory perspective.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**ATTR 15011 INTRODUCTION TO CLINICAL ATHLETIC TRAINING II 2 Credit Hours**

Basic concepts and skills related to the professional domains of the athletic training profession including basic modalities and rehabilitation, research, ethics, palpations, and blood borne pathogens. Moderate to advanced Skills training in padding, splinting, wound care, equipment, bracing, tapings, wrappings, spine immobilization, and basic assessment techniques.

**Prerequisite:** Athletic training major.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 1 lecture, 2 lab

**Grade Mode:** Standard Letter

**ATTR 15012 DOCUMENTATION IN HEALTH CARE 2 Credit Hours**

Addresses clinical writing skills associated with documentation in health care. Addresses the legal, ethical, and practical needs for proper documentation in health care. Focus is on reading, writing and interpreting various forms of medical documentation including but not limited to SOAP notes, progress notes, treatment notes, clinical record keeping, and facility records. Electronic medical record techniques and other clinical record methods will be addressed.

**Prerequisite:** Sport medicine major.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**ATTR 15092 PRACTICUM IN ATHLETIC TRAINING I (ELR) 3 Credit Hours**

The study and clinical application of the competencies in athletic training educational domains. Specific emphasis on the introductory cognitive and psychomotor, as well as foundational behaviors of professional practice. Clinical hours and completion of specific competencies are required.

**Prerequisite:** ATTR 15011; and special approval.

**Schedule Type:** Lecture, Practical Experience

**Contact Hours:** 2 lecture, 12 other

**Grade Mode:** Standard Letter-IP

**Attributes:** Experiential Learning Requirement

**ATTR 20001 SOCIOCULTURAL ASPECTS OF HEALTH CARE 3 Credit Hours**

Advanced examination of the sociocultural aspects of healthcare careers. Specific emphasis will be placed of the recognition of diverse patient populations and effectively addressing their unique needs. Cultural competence will be the focus of of the course and will address various aspects of sociocultural diversity; including but not limited to racial, ethnic, religious, socioeconomic, regional beliefs, and alternative approaches to healthcare.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ATTR 25036 RESPONDING TO EMERGENCIES 3 Credit Hours**

Principles of emergency care including prevention, management, and administrative aspects associated with injury and trauma. Practical competency in emergency care and first aid; American Red Cross Professional Rescuer Certification for CPR and AED.

**Prerequisite:** None.

**Schedule Type:** Laboratory, Lecture, Combined Lecture and Lab

**Contact Hours:** 2 lab, 2 other

**Grade Mode:** Standard Letter

**ATTR 25037 PHYSICAL ASSESSMENT TECHNIQUES AND KINESIOLOGY FOR THE LOWER EXTREMITY AND SPINE 3 Credit Hours**

Anatomical, clinical assessment and kinesiology related to injuries and illnesses common in athletic training and sports medicine. Emphasis on orthopedic assessment and kinesiology concepts of the Lower extremity and spine.

**Prerequisite:** ATTR 25036; and ATTR 25057 or EXSC 25057 or BSCI 11010 or BSCI 21010.

**Schedule Type:** Laboratory, Lecture, Combined Lecture and Lab

**Contact Hours:** 2 lecture, 2 lab

**Grade Mode:** Standard Letter

**ATTR 25038 PHYSICAL ASSESSMENT TECHNIQUES AND KINESIOLOGY FOR THE UPPER EXTREMITY, HEAD AND NECK 3 Credit Hours**

Anatomical, clinical assessment and kinesiology related to injuries and illnesses common in athletic training and sports medicine. Emphasis on orthopedic assessment and kinesiology concepts of the Upper Extremity, Health and neck.

**Prerequisite:** ATTR 25036 and ATTR 25037; and ATTR 25057 or EXSC 25057 or BSCI 11010 or BSCI 21010.

**Schedule Type:** Laboratory, Lecture, Combined Lecture and Lab

**Contact Hours:** 2 lecture, 2 lab

**Grade Mode:** Standard Letter

**ATTR 25057 HUMAN ANATOMY AND PHYSIOLOGY I (KBS) (KLAB) 4 Credit Hours**

(Cross-listed with EXSC 25057) Comprehensive examination of anatomy and physiology related to the organization of the body and basic cell and tissue types. Specific structure and function of the muscular, skeletal, integumentary and nervous systems are addressed.

**Prerequisite:** None.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 3 lecture, 2 lab

**Grade Mode:** Standard Letter

**Attributes:** Kent Core Basic Sciences, Kent Core Basic Sciences Lab

**ATTR 25058 HUMAN ANATOMY AND PHYSIOLOGY II (KBS) (KLAB) 4 Credit Hours**

(Cross-listed with EXSC 25058) Comprehensive examination of anatomy and physiology related to the human body under rest and exercise conditions. Specific structure and function of the metabolic, endocrine, lymphatic, digestive, urinary and reproductive systems are addressed. Advanced coverage of neurological, cardiovascular and respiratory systems are also addressed.

**Prerequisite:** ATTR 25057 or EXSC 25057 or BSCI 11010 or BSCI 21010.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 3 lecture, 2 lab

**Grade Mode:** Standard Letter

**Attributes:** Kent Core Basic Sciences, Kent Core Basic Sciences Lab

**ATTR 25092 PRACTICUM IN ATHLETIC TRAINING II (ELR) 3 Credit Hours**

The study and clinical application of the competencies in athletic training educational domains. Specific emphasis on the intermediate cognitive and psychomotor components. Clinical hours and completion of specific competencies are required.

**Prerequisite:** ATTR 15092.

**Schedule Type:** Lecture, Practical Experience

**Contact Hours:** 2 lecture, 15 other

**Grade Mode:** Standard Letter-IP

**Attributes:** Experiential Learning Requirement

**ATTR 35025 ESSENTIALS OF ATHLETIC INJURY MANAGEMENT 1 Credit Hour**

Common injuries related to physical activity and/or athletic participation from the cause, management and care perspectives. American Red Cross sport safety training certification (including adult/child CPR) will be granted. Emphasis on application of skills.

**Prerequisite:** None.

**Schedule Type:** Laboratory

**Contact Hours:** 1 lab

**Grade Mode:** Standard Letter

**ATTR 35037 ADVANCED PHYSICAL ASSESSMENT TECHNIQUES 3 Credit Hours**

Anatomical, medical and clinical assessment techniques for injuries and illnesses common to the physically active. Emphasis on neurological and non-orthopedic assessment strategies for proper referral and care.

**Prerequisite:** ATTR 25037 and ATTR 25038; and ATTR 25058 or BSCI 11020 or BSCI 21020 or EXSC 25058.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 2 lecture, 2 lab

**Grade Mode:** Standard Letter

**ATTR 35039 THERAPEUTIC MODALITIES 3 Credit Hours**

The study and practical application of physical modalities including physical principles, physiologic effects, indications/contraindications and standard application procedures. Safety and legal issues of modality usage are also addressed.

**Prerequisite:** ATTR 25036.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**ATTR 35040 STRENGTH AND CONDITIONING 2 Credit Hours**

Demonstrate didactic understanding and clinical application of energy systems, anatomy and proper techniques for strength and conditioning exercises for practical applications with athletes.

**Prerequisite:** ATTR 25057 or EXSC 25057 or BSCI 11010 or BSCI 21010; and Athletic Training, Exercise Science or Physical Education-Professional major.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 1 lecture, 2 lab

**Grade Mode:** Standard Letter

**ATTR 35045 EMERGENCY MEDICAL TECHNICIAN-BASIC 5 Credit Hours**

Preparing for Emergency Medical Technician certification including patient assessment, airway and cardiac management, trauma management, medical patient management and clinical experience. Prepares students to challenge the National Registry Examination for the State of Ohio for EMT-Basic. Clinical hours are required for this course through Hudson EMS.

**Prerequisite:** None.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 2 lecture, 6 lab

**Grade Mode:** Standard Letter

**ATTR 35050 NEUROLOGICAL PROCESS FOR THE HEALTHCARE PROFESSIONAL 3 Credit Hours**

Advanced cognitive content in the areas of normal and pathological function of the nervous system and its components. Specific emphasis on the neurophysiological basis for motor learning, special senses, and memory serves to address the central and peripheral nervous system structure and function. Growth and Development and pathological responses to hypoxia, microbiologic agents, genetic derangements, nutritional deficiencies, chemicals, drugs and aging are addressed.

**Prerequisite:** ATTR 25057 or EXSC 25057 or BSCI 11010 or BSCI 21010; and ATTR 25058 or EXSC 25058 or BSCI 11020 or BSCI 21020.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ATTR 35054 BIOMECHANICS 3 Credit Hours**

(Cross-listed with EXSC 35054) Anatomical and mechanical bases of human movement. Emphasis is placed on tools and techniques for motion analysis, mechanical concepts, forces and performance analysis. Lecture and laboratory.

**Prerequisite:** ATTR 25057 or EXSC 25057 or BSCI 11010 or BSCI 21010.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 2 lecture, 2 lab

**Grade Mode:** Standard Letter

**ATTR 35062 EVIDENCE-BASED RESEARCH IN HEALTH CARE 3 Credit Hours**

An examination of evidence-based practice and evidence-based research in health care. The focus of the course will include understanding literature, research questions, methods of research, and how evidence-based research and evidence-based practice play a vital role in the delivery or modern day healthcare. Emphasis will be placed upon the process of evidence-based research, utilizing the outcomes of evidence-based research and the utilization of outcomes assessment in healthcare.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ATTR 35092 PRACTICUM IN ATHLETIC TRAINING III (ELR) 3 Credit Hours**

The study and clinical application of the competencies in athletic training educational domains. Specific emphasis on the intermediate and advanced cognitive and psychomotor components. Clinical hours and completion of specific competencies are required.

**Prerequisite:** ATTR 25092.

**Schedule Type:** Lecture, Practical Experience

**Contact Hours:** 2 lecture, 15 other

**Grade Mode:** Standard Letter-IP

**Attributes:** Experiential Learning Requirement

**ATTR 43018 ETHICAL LEADERSHIP FOR HEALTH CARE (WIC) 3 Credit Hours**

(Slashed with ATTR 53018) Examination of specific situations in healthcare from an ethical sensitivity, reasoning and decision making perspective. A problem-oriented case study approach based on contemporary moral issues and moral theory related to clinical and academic health professions. An examination and assessment of leadership styles and methods as they pertain to healthcare and healthcare administration.

**Prerequisite:** Senior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Writing Intensive Course

**ATTR 45017 PROFESSIONAL DEVELOPMENT IN ATHLETIC TRAINING 3 Credit Hours**

An investigation of the issues affecting the student athletic trainer as they prepare for an entry-level career in athletic training. Professional development issues and NATABOC exam preparation are included.

**Prerequisite:** Athletic Training majors only; and senior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ATTR 45019 PROFESSIONAL RESPONSIBILITY AND MANAGEMENT IN HEALTH CARE 3 Credit Hours**

An investigation of the issues affecting the entry level healthcare providers. Professional development issues and career advancement are included. Investigation into current philosophies and legal aspects of healthcare management. Organization and administrative concepts and models will focus on the advancement of patient based healthcare.

**Prerequisite:** Senior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ATTR 45038 ORGANIZATION AND ADMINISTRATION OF ATHLETIC TRAINING 3 Credit Hours**

(Cross-listed with ATTR 55038) Investigation into current philosophies and legal aspects of athletic training. Organization and administration of all aspects of athletic training programs.

**Prerequisite:** ATTR 25036.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ATTR 45039 THERAPEUTIC REHABILITATION 3 Credit Hours**

(Cross-listed with ATTR 55039) The study and clinical application of rehabilitation techniques including strategies for proper exercise selection based on anatomical and physiological considerations, program administration and guidelines for program progression.

**Prerequisite:** ATTR 25036; and ATTR 25057 or EXSC 25057 or BSCI 11010 or BSCI 21010.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 2 lecture, 1 lab

**Grade Mode:** Standard Letter

**ATTR 45040 PATHOLOGY AND PHARMACOLOGY FOR ALLIED HEALTH CARE PROVIDERS 3 Credit Hours**

(Cross-listed with ATTR 55040) Investigation of specific pathological conditions presented by professionals, including physicians and pharmacists. Will discuss common pathologies, associated pharmacological treatment and physiologic effects for various afflictions.

**Prerequisite:** ATTR 25058 or EXSC 25058 or BSCI 11020 or BSCI 21020.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ATTR 45041 ADVANCED THERAPEUTIC INTERVENTIONS 3 Credit Hours**

Addresses the physiological considerations of specific injuries and conditions commonly encountered in the athletic training profession. Focus is on contemporary rehabilitative programming for all of the major body regions. Specific units on Aquatic therapy and rehabilitation, Neurological considerations for rehabilitation, Return to Running Considerations, and Return to Throwing protocols are included.

**Prerequisite:** ATTR 25057 or EXSC 25057 or BSCI 11010 or BSCI 21010; and ATTR 25058 or EXSC 25058 or BSCI 11020 or BSCI 21020; and ATTR 35054 and ATTR 45039.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 2 lecture, 1 lab

**Grade Mode:** Standard Letter

**ATTR 45091 SENIOR SEMINAR IN ATHLETIC TRAINING 1 Credit Hour**

(Repeatable for credit) Contemporary issues related to preparing students for entry-level careers in the athletic training profession including development of the foundational behaviors of professional practice. Specific emphasis on employment preparation or graduate school preparation.

**Prerequisite:** Athletic Training major; and senior standing.

**Schedule Type:** Seminar

**Contact Hours:** 1 lecture

**Grade Mode:** Standard Letter

**ATTR 45096 INDIVIDUAL INVESTIGATION IN ATHLETIC TRAINING 1-3 Credit Hours**

(Repeatable for a maximum of 6 credit hours) Independent study completed under the supervision of a faculty member. Written approval of supervising faculty member and school director required prior to registration.

**Prerequisite:** Special approval.

**Schedule Type:** Individual Investigation

**Contact Hours:** 3-9 other

**Grade Mode:** Standard Letter-IP

**ATTR 45192 PRACTICUM IN ATHLETIC TRAINING IV (ELR) 3 Credit Hours**

The study and clinical application of competencies in athletic training educational domains. Specific emphasis on the advanced cognitive and psychomotor components. Clinical hours and completion of specific competencies are required.

**Prerequisite:** ATTR 35092.

**Schedule Type:** Lecture, Practical Experience

**Contact Hours:** 2 lecture, 15 other

**Grade Mode:** Standard Letter-IP

**Attributes:** Experiential Learning Requirement

**ATTR 45292 INTERNSHIP IN ATHLETIC TRAINING I (ELR) 3 Credit Hours**

Internship in approved athletic training setting under the direct supervision of a certified athletic trainer. Students complete 20 hours per week in a clinical experience.

**Prerequisite:** ATTR 45192; and special approval.

**Schedule Type:** Lecture, Practical Experience

**Contact Hours:** 1 lecture, 20 other

**Grade Mode:** Standard Letter-IP

**Attributes:** Experiential Learning Requirement

**ATTR 45392 INTERNSHIP IN ATHLETIC TRAINING II (ELR) 3 Credit Hours**

Internship in an approved athletic training setting under the supervision of a certified and licensed athletic trainer. Students are required to perform 20 hours per week in clinical experience.

**Prerequisite:** ATTR 45292; and special approval.

**Schedule Type:** Lecture, Practical Experience

**Contact Hours:** 1 lecture, 20 other

**Grade Mode:** Standard Letter-IP

**Attributes:** Experiential Learning Requirement

**ATTR 45492 INTER-PROFESSIONAL INTERNSHIP IN SPORTS MEDICINE (ELR) 3 Credit Hours**

(Repeatable for credit) Inter-professional internship experience in a sports medicine discipline. An internship experience in a sports medicine facility focusing on inter-professional dynamics and aspects of the discipline. A comprehensive clinical experience will be supported by engagement in the inter-professional environment through projects and professional development experiences. Integration of professionalism, professional development, and transition to practice in a sports medicine discipline drives this internship.

**Prerequisite:** Sports medicine major; and senior standing; and special approval.

**Schedule Type:** Practical Experience

**Contact Hours:** 9 other

**Grade Mode:** Standard Letter

**Attributes:** Experiential Learning Requirement

**ATTR 46095 SPECIAL TOPICS IN ATHLETIC TRAINING 1-3 Credit Hours**

(Repeatable for credit) Selected topics in athletic training dependent upon interest.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 1-3 lecture

**Grade Mode:** Standard Letter

**ATTR 53018 ETHICAL LEADERSHIP FOR HEALTH CARE 3 Credit Hours**

(Slashed with ATTR 43018) Examination of specific situations in healthcare from an ethical sensitivity, reasoning and decision making perspective. A problem-oriented case study approach based on contemporary moral issues and moral theory related to clinical and academic health professions. An examination and assessment of leadership styles and methods as they pertain to health care and health care administration.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ATTR 55038 ORGANIZATION AND ADMINISTRATION OF ATHLETIC TRAINING 3 Credit Hours**

(Cross-listed with ATTR 45038) Investigation into current philosophies and legal aspects of athletic training. Organization and administration of all aspects of athletic training programs.

**Prerequisite:** ATTR 25036; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ATTR 55039 THERAPEUTIC REHABILITATION 3 Credit Hours**

(Cross-listed with ATTR 45039) The study and clinical application of rehabilitation techniques including strategies for proper exercise selection based on anatomical and physiological considerations, program administration, and guidelines for program progression.

**Prerequisite:** Graduate standing.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 2 lecture, 2 lab

**Grade Mode:** Standard Letter

**ATTR 55040 PATHOLOGY AND PHARMACOLOGY FOR ALLIED HEALTH CARE PROVIDERS 3 Credit Hours**

Investigation of specific pathological conditions presented by professionals, including physicians and pharmacists. Will discuss common pathologies, associated pharmacological treatments and physiologic effects for various afflictions.

**Prerequisite:** ATTR 25058 or EXSC 25058.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ATTR 60000 CADAVER ANATOMY AND APPLIED ASSESSMENT 6 Credit Hours**

Cadaver dissection with emphasis on the systems of the body to understand structure and function of the anatomical structures. Applied assessment components integrate functional assessment and diagnostic signs and symptoms of common athletic training conditions and injuries. Evidence-based assessment will be infused throughout the course.

**Prerequisite:** Athletic Training major within the Master of Science degree; and graduate standing.

**Schedule Type:** Laboratory, Lecture, Combined Lecture and Lab

**Contact Hours:** 3 lecture, 6 lab

**Grade Mode:** Standard Letter

**ATTR 61000 ACUTE INJURY DIAGNOSIS, TREATMENT AND MANAGEMENT 3 Credit Hours**

Mechanisms of acute injuries will provide the foundation for the integration of evidence-based knowledge in the diagnosis, treatment and management of athletic training injuries. Contemporary clinical guidelines and management strategies will provide a framework for critical thinking and practical application.

**Prerequisite:** Graduate standing.

**Schedule Type:** Laboratory, Lecture, Combined Lecture and Lab

**Contact Hours:** 2 lecture, 2 lab

**Grade Mode:** Standard Letter

**ATTR 62010 CONTEMPORARY ISSUES IN ATHLETIC TRAINING 3 Credit Hours**

A comprehensive examination of contemporary issues, trends and problems affecting athletic training professionals related to the domains of practice for athletic trainers.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter



**ATTR 62012 EDUCATION AND SUPERVISION PROCESSES IN ATHLETIC TRAINING 3 Credit Hours**

A comprehensive examination of educational learning theories, curriculum design, evaluation and supervision strategies in athletic training education programs from didactic and clinical perspectives. Additional applications for continuing education programs will be included.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ATTR 62014 ADVANCED CLINICAL PROCEDURES IN ATHLETIC TRAINING AND SPORTS MEDICINE 3 Credit Hours**

Advanced clinical practice theory and skills as they relate to the profession of athletic training and sports medicine. Emphasis on contemporary clinical practice issues for a variety of athletic training and sports medicine professional settings.

**Prerequisite:** Graduate standing.

**Schedule Type:** Laboratory, Lecture, Combined Lecture and Lab

**Contact Hours:** 2 lecture, 2 lab

**Grade Mode:** Standard Letter

**ATTR 62016 CLINICAL INQUIRY IN ATHLETIC TRAINING 3 Credit Hours**

Principles of athletic training research methodologies with a focus on clinical athletic training research. Completion of a clinical research project will be required in this course.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ATTR 63091 RESEARCH SEMINAR 1 Credit Hour**

(Slashed with ATTR 73091) Presentation and discussion of research by faculty and students. A total of 2 credits may be applied toward degree requirements.

**Prerequisite:** Graduate standing.

**Schedule Type:** Seminar

**Contact Hours:** 1 other

**Grade Mode:** Satisfactory/Unsatisfactory

**ATTR 63094 COLLEGE TEACHING IN HEALTH SCIENCES 3 Credit Hours**

(Repeatable for a maximum of 6 credit hours) Guided teaching experiences in the Health Sciences. Specific emphasis on establishing and implementing a teaching philosophy in an instructional setting in the Health Sciences. Development of Professional Teaching Behaviors will be addressed. A comprehensive teaching experience rooted in contemporary teaching literature will guide this course.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Lecture, Seminar

**Contact Hours:** 1 lecture, 2 other

**Grade Mode:** Standard Letter

**ATTR 63096 INDIVIDUAL INVESTIGATION IN ATHLETIC TRAINING 1-3 Credit Hours**

(Repeatable for a maximum of 6 credit hours) Independent study completed under the supervision of a faculty member. Written approval of supervising faculty member and School director required prior to registration.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Individual Investigation

**Contact Hours:** 3-9 other

**Grade Mode:** Standard Letter-IP

**ATTR 63098 RESEARCH 1-15 Credit Hours**

(Repeatable for credit) Research carried out by the student under the supervision of a faculty member.

**Prerequisite:** Graduate standing.

**Schedule Type:** Research

**Contact Hours:** 1-15 other

**Grade Mode:** Standard Letter-IP

**ATTR 63193 VARIABLE TITLE WORKSHOP IN ATHLETIC TRAINING 1-3 Credit Hours**

(Repeatable for credit) Workshop in athletic training; topics vary. Maximum 4 hours applied to the degree.

**Prerequisite:** Graduate standing.

**Schedule Type:** Workshop

**Contact Hours:** 1-3 other

**Grade Mode:** Satisfactory/Unsatisfactory

**ATTR 63195 SPECIAL TOPICS IN ATHLETIC TRAINING 1-3 Credit Hours**

(Repeatable for a maximum of 6 credit hours) Selected and varied topics of relevance in athletic training.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 1-3 lecture

**Grade Mode:** Standard Letter

**ATTR 63199 THESIS I 2-6 Credit Hours**

(Repeatable for credit) Thesis students must register for a total of 6 hours, 2 to 6 hours in a semester distributed over several semesters if desired.

**Prerequisite:** Graduate standing.

**Schedule Type:** Masters Thesis

**Contact Hours:** 2-6 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**ATTR 63299 THESIS II 2 Credit Hours**

Thesis students must continue registration each semester until all degree requirements are met.

**Prerequisite:** ATTR 63199; and graduate standing.

**Schedule Type:** Masters Thesis

**Contact Hours:** 2 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**ATTR 65001 CLINICAL PRACTICE I: PREVENTION AND WELLNESS 3 Credit Hours**

Clinical practicum in an athletic training setting under the direct supervision of a certified, licensed health care provider. Emphasis on the development of clinical competencies related to prevention of injuries and medical conditions and overall wellness will be the primary focus. Engagement in an inter-professional environment with specific competencies for research and ethical case analysis are required. Students must complete a minimum of 180 hours in clinicals.

**Prerequisite:** Athletic Training major within the Master of Science degree; and graduate standing.

**Schedule Type:** Clinical Laboratory

**Contact Hours:** 12 other

**Grade Mode:** Standard Letter



**ATTR 65002 CLINICAL PRACTICE II: ADVANCED HEAD, NECK AND ORTHOPEDIC 3 Credit Hours**

Clinical practicum in an athletic training setting under the direct supervision of a certified, licensed health care provider. Emphasis on the development of clinical competencies related to Head, Neck, and Orthopedic conditions and overall wellness will be the primary focus. Engagement in an inter-professional environment with specific competencies for research and ethical case analysis are required. Student must complete a minimum of 180 hours in clinicals.

**Prerequisite:** Athletic Training major within the Master of Science degree; and graduate standing.

**Schedule Type:** Clinical Laboratory

**Contact Hours:** 12 other

**Grade Mode:** Standard Letter

**ATTR 65003 CLINICAL PRACTICE III: GENERAL MEDICAL 3 Credit Hours**

Clinical practicum in an athletic training setting under the direct supervision of a certified, licensed health care provider. Emphasis on the development of clinical competencies related to general medical conditions will be the primary focus. Engagement in an inter-professional environment including rotations with physicians and-or nurse practitioners with specific competencies for research and ethical case analysis are required. Student must complete a minimum of 180 hour in clinicals.

**Prerequisite:** Athletic Training major within the Master of Science degree; and graduate standing.

**Schedule Type:** Clinical Laboratory

**Contact Hours:** 12 other

**Grade Mode:** Standard Letter

**ATTR 65004 BIOMECHANICS 3 Credit Hours**

(Cross-listed with EXPH 75004) Survey of biomechanics, with particular emphasis on skeletal muscle mechanics.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ATTR 65005 CLINICAL PRACTICE IV: ADVANCED COMPETENCIES 3 Credit Hours**

Clinical practicum in an athletic training setting under the direct supervision of a certified, licensed health care provider. Emphasis on the development of clinical competencies related to advanced competencies and skills in athletic training will be the primary focus. Engagement in an inter-professional environment with specific competencies for research and ethical case analysis are required. Student must complete a minimum of 180 hours in clinicals.

**Prerequisite:** Athletic Training major within the Master of Science degree; and graduate standing.

**Schedule Type:** Clinical Laboratory

**Contact Hours:** 12 other

**Grade Mode:** Standard Letter

**ATTR 65037 PHYSICAL AGENTS IN ATHLETIC TRAINING AND SPORTS MEDICINE 3 Credit Hours**

The study and practical application of physical modalities including physical principles, physiologic effects, indications-contradictions, and standard application procedures. Safety and legal issues of modality usage are also addressed.

**Prerequisite:** Graduate standing.

**Schedule Type:** Laboratory, Lecture, Combined Lecture and Lab

**Contact Hours:** 2 lecture, 2 lab

**Grade Mode:** Standard Letter

**ATTR 65038 ADMINISTRATION CONCEPTS FOR THE HEALTHCARE PROFESSIONAL 3 Credit Hours**

Investigation into current philosophies and legal aspects of athletic training and sports medicine programs. Organization and administration of all aspects of athletic training and sports medicine programs with specific emphasis on policy and regulation of programs anchored in contemporary healthcare practices.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ATTR 65039 PHYSICAL REHABILITATION IN ATHLETIC TRAINING AND SPORTS MEDICINE 3 Credit Hours**

The study and clinical application of evidence based rehabilitation techniques including strategies for proper exercise selection based on anatomical and physiological considerations, program administration, and guidelines for program progression. This course will address the comprehensive concepts related to the rehabilitation of including but not limited to modality selection, pharmacological considerations, record keeping, program design and implementation, and safety aspects. The psychology of rehabilitation including goal setting and motivation will also be addressed. Current literature and techniques in the field will support the content of this course.

**Prerequisite:** Graduate standing.

**Schedule Type:** Laboratory, Lecture, Combined Lecture and Lab

**Contact Hours:** 2 lecture, 2 lab

**Grade Mode:** Standard Letter

**ATTR 65040 PATHOPHARMACOLOGY FOR HEALTHCARE PROVIDERS 3 Credit Hours**

Advanced investigation of specific pathological conditions presented by professionals, including physicians and pharmacists. Will discuss common pathologies, associated pharmacological treatment and physiologic effects for various afflictions anchored in evidence-based practice in health care.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ATTR 65050 NEUROLOGICAL CONCEPTS FOR THE HEALTHCARE PROFESSIONAL 3 Credit Hours**

Advanced cognitive content in normal and pathological function of the nervous system and its components. Specific emphasis on the neurophysiological basis for motor learning, special senses, and memory serves to address the central and peripheral nervous system structure and function. Growth and Development and pathological responses to hypoxia, microbiologic agents, genetic derangements, nutritional deficiencies, chemicals, drugs and aging are addressed. Evidence-based practice concepts will guide the integration from anatomy and physiology to effective interventions for selected neurological conditions.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ATTR 69999 CLINICAL CAPSTONE IN ATHLETIC TRAINING 6 Credit Hours**

Clinical Capstone is an intensive, immersion experience in the clinical setting under the direct supervision of a certified, licensed health care professional. Students will invest a minimum of 360 in the clinical setting working with inter-professional health care providers. Clinical capstone expectations include performance evaluations by supervisors and patient management to promote active clinical engagement and critical thinking. A portfolio will include professional skill assessments, performance assessment, case studies, mock interview, and formal evidence-based presentation to health care providers on an athletic training domain.

**Prerequisite:** Athletic Training major within the Master of Science degree; and graduate standing.

**Schedule Type:** Clinical Laboratory

**Contact Hours:** 24 other

**Grade Mode:** Standard Letter

**ATTR 73091 RESEARCH SEMINAR 1 Credit Hour**

(Slashed with ATTR 63091) Presentation and discussion of research by faculty and students. A total of 2 credits may be applied toward degree requirements.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Seminar

**Contact Hours:** 1 other

**Grade Mode:** Satisfactory/Unsatisfactory

**ATTR 73094 COLLEGE TEACHING IN HEALTH SCIENCES 3 Credit Hours**

Guided teaching experiences in health sciences. Specific emphasis on establishing and implementing a teaching philosophy in an instructional setting in the health sciences. Development of Professional Teaching Behaviors will be addressed. A comprehensive teaching experience rooting in contemporary literature will guide this course.

**Prerequisite:** Doctoral standing; and special approval.

**Schedule Type:** Lecture, Seminar

**Contact Hours:** 1 lecture, 2 other

**Grade Mode:** Standard Letter

**ATTR 75001 EVIDENCE BASED INTERVENTIONS IN ATHLETIC TRAINING 3 Credit Hours**

This course will examine the use of Evidence Based Interventions (EBI) in Athletic Training Education. This course will examine the implementation of EBI constructs across the curriculum and program. Specific emphasis on designing and implementing EBI into didactic and clinical experiences in Athletic Training. Implementation of EBI into the development, implementation and dissemination of research will also be addressed. Through an extensive examination of the critical literature, students will gain an understanding of how to broadly integrate EBI constructs in their professional practice.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ATTR 75002 ACADEMIC AND ADMINISTRATIVE LEADERSHIP IN ATHLETIC TRAINING 3 Credit Hours**

This course will address the key academic leadership constructs needed to navigate the higher education culture as a faculty and/or clinical faculty member. Human resources, politics, administrative processes and organizational factors related to successful higher education and clinical leadership will be the focus. Leadership and advocacy strategies for professional organizations will also be developed.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ATTR 75003 CONTINUOUS QUALITY IMPROVEMENT AND ASSESSMENT IN ATHLETIC TRAINING 3 Credit Hours**

The focus of the course includes the fundamental constructs associated with quality improvement through an academic program in athletic training. The development of inter-professional practice, engaging curriculum, creation of educational and administrative policy, and leading change within Athletic Training organizations. The course will assist students in developing action plans for their organization pertaining to organizational improvement.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ATTR 75004 TEACHING AND CLINICAL EDUCATION LEADERSHIP IN ATHLETIC TRAINING 3 Credit Hours**

This course focuses on the comprehensive and integrated elements in athletic training education. An in-depth analysis of curriculum design and implementation, didactic and clinical education, program assessments, and accreditation policies and standards will be addressed. A framework rooted in the context of inter-professional education promote organizational and programmatic improvements related dynamic trends in HC education.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Exercise Physiology (EXPH)****EXPH 50612 EXERCISE LEADERSHIP FOR THE OLDER ADULT 3 Credit Hours**

(Cross-listed with EXSC 40612) Designed to provide the students with a knowledge base in exercise leadership in the senior population and includes special populations. Students participate in the leading supervision and evaluation of the participant within the exercise program. They also assist in the collection of functional fitness data.

**Prerequisite:** Graduate standing.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 2 lecture, 2 lab

**Grade Mode:** Standard Letter

**EXPH 51000 EXERCISE IMPLEMENTATION: AN EXERCISE INTERVENTION PROGRAM 1-3 Credit Hours**

(Repeatable for credit) Students will participate in leading, supervising and developing plans for individuals who want to reduce cardiovascular risk factors through structured exercise.

**Prerequisite:** EXPH 55080; and graduate standing.

**Schedule Type:** Laboratory

**Contact Hours:** 3-9 lab

**Grade Mode:** Standard Letter

**EXPH 53093 VARIABLE TITLE WORKSHOP IN EXERCISE SCIENCE AND EXERCISE PHYSIOLOGY 1-3 Credit Hours**

(Repeatable for credit) (Cross-listed with EXSC 43093) Workshop in exercise science or physiology, topics vary.

**Prerequisite:** Graduate standing.

**Schedule Type:** Workshop

**Contact Hours:** 1-3 other

**Grade Mode:** Satisfactory/Unsatisfactory

**EXPH 55040 ADVANCED STRENGTH AND CONDITIONING 3 Credit Hours**

(Slashed with EXSC 45040) Advanced principles in strength and conditioning. Learn and understand the energy systems, anatomy, physiology and proper lifting technique of strength, speed, agility and conditioning exercises for practical application with athletes.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**EXPH 55065 EXERCISE TESTING 3 Credit Hours**

(Cross-listed with EXSC 45065) Lecture and laboratory experiences dealing with the administration and interpretation of exercise tests.

**Prerequisite:** Graduate standing.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 2 lecture, 2 lab

**Grade Mode:** Standard Letter

**EXPH 55070 ELECTROCARDIOGRAPHY FOR THE EXERCISE PHYSIOLOGIST 3 Credit Hours**

(Cross-listed with EXSC 45070) Designed to provide students with the knowledge base in electrocardiography. Students work on interpreting the 12-lead electrocardiogram with clinical case studies to enhance the knowledge base of the exercise specialist.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**EXPH 55080 PHYSIOLOGY OF EXERCISE 3 Credit Hours**

(Cross-listed with EXSC 45080) Physiological bases of muscular activity with special attention to general effects of exercise on body function. Laboratory included.

**Prerequisite:** Graduate standing.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 2 lecture, 2 lab

**Grade Mode:** Standard Letter

**EXPH 60610 PHYSIOLOGY OF AGING: IMPLICATIONS FOR HUMAN BEHAVIOR 3 Credit Hours**

(Cross-listed with EXPH 70610) Examine physiological changes which accompany advancing age. Special attention is paid to the effect of these changes on sensory motor and cognitive behavior.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**EXPH 63050 RESEARCH PROCESS IN ATHLETIC TRAINING AND EXERCISE PHYSIOLOGY 3 Credit Hours**

(Cross-listed with EXPH 73050) The research process and statistical concepts applied to athletic training and exercise physiology.

**Prerequisite:** Graduate standing.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 2 lecture, 2 lab

**Grade Mode:** Standard Letter

**EXPH 63051 QUANTITATIVE AND RESEARCH METHODS IN ATHLETIC TRAINING AND EXERCISE PHYSIOLOGY 3 Credit Hours**

(Slashed with EXPH 73051) Research design and statistical methods applied to exercise, physiology and athletic training.

**Prerequisite:** EXPH 63050; and graduate standing.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 2 lecture, 2 lab

**Grade Mode:** Standard Letter

**EXPH 63091 RESEARCH SEMINAR 1 Credit Hour**

(Repeatable for credit) (Slashed with EXPH 73091) Presentation and discussion of research by faculty and students. A total of 2 credits may be applied toward degree requirements.

**Prerequisite:** Graduate standing.

**Schedule Type:** Seminar

**Contact Hours:** 1 other

**Grade Mode:** Satisfactory/Unsatisfactory

**EXPH 63096 INDIVIDUAL INVESTIGATION IN EXERCISE PHYSIOLOGY 1-3 Credit Hours**

(Repeatable for a maximum of 6 credit hours) (Slashed with EXPH 73096) Independent study completed under the supervision of a faculty member. Written approval of supervising faculty member and School Director required prior to registration.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Individual Investigation

**Contact Hours:** 3-9 other

**Grade Mode:** Standard Letter-IP

**EXPH 63098 RESEARCH 1-15 Credit Hours**

(Repeatable for credit) Research carried out by the student under the supervision of a faculty member.

**Prerequisite:** Graduate standing.

**Schedule Type:** Research

**Contact Hours:** 1-15 other

**Grade Mode:** Standard Letter-IP

**EXPH 63193 VARIABLE TITLE WORKSHOP IN EXERCISE PHYSIOLOGY 1-3 Credit Hours**

(Repeatable for credit) Workshop in exercise physiology; topics vary. Maximum 4 hours applied to the degree.

**Prerequisite:** Graduate standing.

**Schedule Type:** Workshop

**Contact Hours:** 1-3 other

**Grade Mode:** Satisfactory/Unsatisfactory

**EXPH 63195 SPECIAL TOPICS IN EXERCISE PHYSIOLOGY 1-3 Credit Hours**

(Repeatable for credit) (Slashed with EXPH 73195) Selected and varied topics of relevance in exercise physiology.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 1-3 lecture

**Grade Mode:** Standard Letter

**EXPH 63199 THESIS I 2-6 Credit Hours**

(Repeatable for credit) Thesis students must register for a total of 6 hours, 2 to 6 hours in a semester distributed over several semesters if desired.

**Prerequisite:** Graduate standing.

**Schedule Type:** Masters Thesis

**Contact Hours:** 3 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**EXPH 63299 THESIS II 2 Credit Hours**

Thesis students must continue registration each semester until all degree requirements are met.

**Prerequisite:** EXPH 63199; and graduate standing.

**Schedule Type:** Masters Thesis

**Contact Hours:** 2 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**EXPH 65075 MUSCLE FUNCTION AND EXERCISE 3 Credit Hours**

(Slashed with EXPH 75075) Characteristics of skeletal muscle related to contraction during exercise, strength, elasticity, fatigue, and training.

Electromyograph analysis of muscle function emphasized.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**EXPH 65076 ENVIRONMENTAL STRESS AND EXERCISE 3 Credit Hours**

(Slashed with EXPH 75076) Effects of heat, cold, pressure, pollution and psychological stress upon physiological responses to exercise. Lecture and laboratory.

**Prerequisite:** Graduate standing.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 2 lecture, 2 lab

**Grade Mode:** Standard Letter

**EXPH 65080 PHYSIOLOGICAL BASIS OF EXERCISE AND SPORT 3 Credit Hours**

(Slashed with EXPH 75080) Application of physiological concepts to human performance. Includes role of testing, training strength and endurance, nutritional considerations, environmental influences and, adapted exercise programs.

**Prerequisite:** Graduate standing.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 2 lecture, 2 lab

**Grade Mode:** Standard Letter

**EXPH 65081 ENERGY METABOLISM AND BODY COMPOSITION 3 Credit Hours**

(Slashed with EXPH 75081) Measurement of metabolic response to exercise. Topics include ergometry spirometry energy expenditure body composition and performance correlates of strength power and endurance.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**EXPH 65082 CARDIO-RESPIRATORY FUNCTION 3 Credit Hours**

(Slashed with EXPH 75082) Measurement of the cardiovascular-respiratory response to exercise. Includes resting spirometry, lung function during exercise, electrocardiography, blood pressure, PWC testing and exercise prescription.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**EXPH 65083 EXERCISE ENERGY METABOLISM 3 Credit Hours**

(Slashed with EXPH 75083) Energy transformations during exercise. Emphasis on controlling mechanisms that regulate the anabolic and catabolic responses to both acute and chronic exercise.

**Prerequisite:** Graduate standing.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 2 lecture, 2 lab

**Grade Mode:** Standard Letter

**EXPH 65084 CARDIOVASCULAR-RESPIRATORY DYNAMICS DURING EXERCISE 3 Credit Hours**

(Slashed with EXPH 75084) Responses of the cardiovascular and respiratory systems to exercise. Use of noninvasive methods to measure cardio-respiratory function emphasized. Lecture and laboratory.

**Prerequisite:** Graduate standing.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 2 lecture, 2 lab

**Grade Mode:** Standard Letter

**EXPH 65086 NEUROBIOLOGY OF MOVEMENT AND EXERCISE 3 Credit Hours**

(Slashed with EXPH 75086) Provide students with knowledge to understand the role of the muscular and nervous systems in human movement and exercise. Motor disorders and rehabilitation techniques will also be discussed. Lecture and laboratory.

**Prerequisite:** Graduate standing.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 2 lecture, 2 lab

**Grade Mode:** Standard Letter

**EXPH 65192 INTERNSHIP IN EXERCISE PHYSIOLOGY 1-6 Credit Hours**

(Repeatable for a maximum of 8 credit hours) (Slashed with EXPH 75192) Field experience in exercise physiology programs and testing in Kent State University adult fitness program or cooperating agencies.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Practical Experience

**Contact Hours:** 3-18 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**EXPH 70610 PHYSIOLOGY OF AGING:IMPLICATIONS FOR HUMAN BEHAVIOR 3 Credit Hours**

(Slashed with EXPH 60610) Examine physiological changes which accompany advancing age. Special attention is paid to the effect of these changes on sensory motor and cognitive behavior.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**EXPH 73050 RESEARCH PROCESSES IN ATHLETIC TRAINING AND EXERCISE PHYSIOLOGY 3 Credit Hours**

(Slashed with EXPH 63050) The research process and statistical concepts applied to athletic training and exercise physiology.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 2 lecture, 2 lab

**Grade Mode:** Standard Letter

**EXPH 73051 QUANTITATIVE AND RESEARCH METHODS IN ATHLETIC TRAINING AND EXERCISE PHYSIOLOGY 3 Credit Hours**

(Slashed with EXPH 63051) Research design and statistical methods applied to exercise physiology and athletic training.

**Prerequisite:** EXPH 73050; and doctoral standing.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 2 lecture, 2 lab

**Grade Mode:** Standard Letter

**EXPH 73091 RESEARCH SEMINAR 1 Credit Hour**

(Repeatable for credit) Presentation and discussion of research by faculty and students. A total of 2 credits may be applied toward degree requirements.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Seminar

**Contact Hours:** 1 other

**Grade Mode:** Satisfactory/Unsatisfactory

**EXPH 73096 INDIVIDUAL INVESTIGATION IN EXERCISE PHYSIOLOGY 1-3 Credit Hours**

(Repeatable for a maximum of 6 credit hours) (Slashed with EXPH 63096) Independent student completed under the supervision of a faculty member. Written approval of supervising faculty member and School Director required prior to registration.

**Prerequisite:** Doctoral standing; and special approval.

**Schedule Type:** Individual Investigation

**Contact Hours:** 1-3 other

**Grade Mode:** Standard Letter-IP

**EXPH 73195 SPECIAL TOPICS IN EXERCISE PHYSIOLOGY 1-3 Credit Hours**

(Repeatable for a maximum of 6 credit hours) (Slashed with EXPH 63195) Selected and varied topics of relevance in exercise physiology.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 1-3 lecture

**Grade Mode:** Standard Letter

**EXPH 75004 BIOMECHANICS 3 Credit Hours**

(Cross-listed with ATTR 65004) Survey of biomechanics, with particular emphasis on skeletal muscle mechanics.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**EXPH 75075 MUSCLE FUNCTION AND EXERCISE 3 Credit Hours**

(Slashed with EXPH 65075) Characteristics of skeletal muscle related to contraction during exercise, strength, elasticity, fatigue and training. Electromyograph analysis of muscle function emphasized.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**EXPH 75076 ENVIRONMENTAL STRESS AND EXERCISE 3 Credit Hours**

(Slashed with EXPH 65076) Effects of heat, cold, pressure, pollution and psychological stress upon physiological responses to exercise. Lecture and laboratory.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 2 lecture, 2 lab

**Grade Mode:** Standard Letter

**EXPH 75080 PHYSIOLOGICAL BASIS OF EXERCISE AND SPORT 3 Credit Hours**

(Slashed with EXPH 65080) Application of physiological concepts to human performance. Includes role of testing, training, strength and endurance, nutritional considerations, environmental influences, and adapted exercise programs.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 2 lecture, 2 lab

**Grade Mode:** Standard Letter

**EXPH 75081 ENERGY METABOLISM AND BODY COMPOSITION 3 Credit Hours**

(Slashed with EXPH 65081) Measurement of metabolic response to exercise. Topics include ergometry, spirometry, energy expenditure, body composition and performance correlates of strength, power and endurance.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**EXPH 75082 CARDIO-RESPIRATORY FUNCTION 3 Credit Hours**

(Cross-listed with EXPH 65082) Measurement of the cardiovascular-respiratory response to exercise. Includes resting spirometry, lung function during exercise, electrocardiography, blood pressure, PWC testing and exercise prescription.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**EXPH 75083 EXERCISE ENERGY METABOLISM 3 Credit Hours**

(Slashed with EXPH 65083) Energy transformations during exercise. Emphasis on controlling mechanisms that regulate the anabolic and catabolic responses to both acute and chronic exercise.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 2 lecture, 2 lab

**Grade Mode:** Standard Letter

**EXPH 75084 CARDIOVASCULAR-RESPIRATORY DYNAMICS DURING EXERCISE 3 Credit Hours**

(Slashed with EXPH 65084) Responses of the cardiovascular and respiratory systems to exercise. Use of noninvasive methods to measure cardio-respiratory function emphasized. Lecture and laboratory.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 2 lecture, 2 lab

**Grade Mode:** Standard Letter



**EXPH 75086 NEUROBIOLOGY OF EXERCISE AND MOVEMENT 3****Credit Hours**

(Slashed with EXPH 65086) Provides students with knowledge to understand the role of the muscular and nervous systems in human movement and exercise. Motor disorders and rehabilitation techniques will also be discussed. Lecture and laboratory.

**Prerequisite:** Graduate standing.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 2 lecture, 2 lab

**Grade Mode:** Standard Letter

**EXPH 75192 INTERNSHIP IN EXERCISE PHYSIOLOGY 1-6 Credit Hours**

(Repeatable for a maximum of 8 credit hours) (Slashed with EXPH 65192) Field experience in exercise physiology programs and testing in KSU adult fitness program or cooperating agencies.

**Prerequisite:** Doctoral standing; and special approval.

**Schedule Type:** Practical Experience

**Contact Hours:** 3-18 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**EXPH 83098 RESEARCH 1-15 Credit Hours**

(Repeatable for credit) Research for doctoral students.

**Prerequisite:** Doctoral standing; and special approval.

**Schedule Type:** Research

**Contact Hours:** 1-15 other

**Grade Mode:** Standard Letter-IP

**EXPH 83199 DISSERTATION I 15 Credit Hours**

(Repeatable for credit) Doctoral dissertation, for which registration in at least two semesters is required, first of which will be semester in which dissertation work is begun and continuing until the completion of 30 hours.

**Prerequisite:** Doctoral standing; and special approval.

**Schedule Type:** Dissertation

**Contact Hours:** 15 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**EXPH 83299 DISSERTATION II 15 Credit Hours**

(Repeatable for credit) Continuing registration required of doctoral students who have completed the initial 30 hours of dissertation and continuing until all degree requirements are met.

**Prerequisite:** EXPH 83199; and doctoral standing.

**Schedule Type:** Dissertation

**Contact Hours:** 15 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**Exercise Science (EXSC)****EXSC 15010 INTRODUCTION TO EXERCISE SCIENCE 2 Credit Hours**

Introduction to the discipline of exercise science, including the history of the field, current position stands of the American College of Sports Medicine, the responsibilities and roles of the exercise physiologist and the current trends in exercise science.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**EXSC 23093 VARIABLE TITLE WORKSHOP IN EXERCISE SCIENCE****1-3 Credit Hours**

(Repeatable for credit) Workshop to develop mastery and application of knowledge and skills that address issues in exercise science; topics vary. Satisfactory/unsatisfactory (S/U) graded.

**Prerequisite:** None.

**Schedule Type:** Workshop

**Contact Hours:** 1-3 other

**Grade Mode:** Satisfactory/Unsatisfactory

**EXSC 25057 HUMAN ANATOMY AND PHYSIOLOGY I (KBS) (KLAB) 4 Credit Hours**

(Cross-listed with ATTR 25057) Comprehensive examination of anatomy and physiology related to the organization of the body and basic cell and tissue types. Specific structure and function of the muscular, skeletal, integumentary, and nervous systems are addressed.

**Prerequisite:** None.

**Schedule Type:** Laboratory, Lecture, Combined Lecture and Lab

**Contact Hours:** 3 lecture, 2 lab

**Grade Mode:** Standard Letter

**Attributes:** Kent Core Basic Sciences, Kent Core Basic Sciences Lab

**EXSC 25058 HUMAN ANATOMY AND PHYSIOLOGY II (KBS) (KLAB) 4 Credit Hours**

(Cross-listed with ATTR 25058) Comprehensive examination of anatomy and physiology related to the human body under rest and exercise conditions. Specific structure and function of the metabolic, endocrine, lymphatic, digestive, urinary and reproductive systems are addressed. Advanced coverage of neurological, cardiovascular and respiratory systems are also addressed.

**Prerequisite:** ATTR 25057 or EXSC 25057 or BSCI 11010 or BSCI 21010.

**Schedule Type:** Laboratory, Lecture, Combined Lecture and Lab

**Contact Hours:** 3 lecture, 2 lab

**Grade Mode:** Standard Letter

**Attributes:** Kent Core Basic Sciences, Kent Core Basic Sciences Lab

**EXSC 35022 EXERCISE LEADERSHIP 3 Credit Hours**

Designed to provide the students with the knowledge base in exercise leadership. Topic areas and competencies using a variety of techniques in leading and demonstrating safe and effective methods of applying the fundamental principles of exercise science. The exercise leader will demonstrate all forms of group exercise, flexibility and balance training.

**Prerequisite:** None.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 2 lecture, 2 lab

**Grade Mode:** Standard Letter

**Attributes:** CTAG Exercise Science

**EXSC 35023 PROFESSIONAL CERTIFICATE PREPARATION 2 Credit Hours**

Introductory course in personal training. Covers basic exercise science, fitness evaluation risk management, health appraisal, safety and legal issues for the personal trainer. Prepares the student to take the national certification examination for personal training.

**Prerequisite:** EXSC 25057 or ATTR 25057 or BSCI 11010 or BSCI 21010; and EXSC 25058 or ATTR 25058 or BSCI 11020 or BSCI 21020.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 1 lecture, 2 lab

**Grade Mode:** Standard Letter

**EXSC 35054 BIOMECHANICS 3 Credit Hours**

(Cross-listed with ATTR 35054) Anatomical and mechanical bases of human movement. Emphasis is placed on tools and techniques for motion analysis, mechanical concepts, forces and performance analysis. Lecture and laboratory.

**Prerequisite:** ATTR 25057 or EXSC 25057 or BSCI 11010 or BSCI 21010.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 2 lecture, 2 lab

**Grade Mode:** Standard Letter

**EXSC 35068 STATISTICS FOR THE EXERCISE SCIENTIST 3 Credit Hours**

Measurement and statistics applied to physical education and exercise/sport sciences; laboratory experiences in statistics test construction and administration and evaluation.

**Prerequisite:** None.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 2 lecture, 2 lab

**Grade Mode:** Standard Letter

**EXSC 35075 EXERCISE PROGRAMMING 3 Credit Hours**

Problems and issues in developing exercise programs in institutional and commercial settings.

**Prerequisite:** ATTR 25057 or EXSC 25057 or BSCI 11010 or BSCI 21010; and ATTR 25058 or EXSC 25058 or BSCI 11020 or BSCI 21020.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 2 lecture, 2 lab

**Grade Mode:** Standard Letter

**EXSC 40612 EXERCISE LEADERSHIP FOR THE OLDER ADULT 3 Credit Hours**

(Cross-listed with EXPH 50612) Designed to provide students with a knowledge base in exercise leadership in the older adult population, including special populations. Students participate in the leading, supervision and evaluation of participants within the exercise program. The also assist in the collection of functional fitness data.

**Prerequisite:** None.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 2 lecture, 2 lab

**Grade Mode:** Standard Letter

**EXSC 41000 EXERCISE IMPLEMENTATION: AN EXERCISE INTERVENTION PROGRAM 1-3 Credit Hours**

(Repeatable for credit) Students will participate in leading, supervising and developing plans for individuals who want to reduce cardiovascular risk factors through structured exercise.

**Prerequisite:** EXSC 45080.

**Schedule Type:** Laboratory

**Contact Hours:** 3-9 other

**Grade Mode:** Standard Letter

**EXSC 43093 VARIABLE TITLED WORKSHOP IN EXERCISE SCIENCE AND EXERCISE PHYSIOLOGY 1-3 Credit Hours**

(Repeatable for credit) (Cross-listed with EXPH 53093) Workshop in exercise science, topics vary.

**Prerequisite:** None.

**Schedule Type:** Workshop

**Contact Hours:** 1-3 lecture

**Grade Mode:** Satisfactory/Unsatisfactory

**EXSC 43098 RESEARCH IN EXERCISE SCIENCE (ELR) 1-3 Credit Hours**

(Repeatable for a maximum of 12 credit hours) Research project completed under the supervision of a faculty member. Written approval of supervising faculty member and School Director required prior to registration.

**Prerequisite:** Special approval.

**Schedule Type:** Research

**Contact Hours:** 3-9 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**Attributes:** Experiential Learning Requirement

**EXSC 45040 ADVANCED STRENGTH AND CONDITIONING 3 Credit Hours**

(Cross-listed with EXPH 55040) Advanced principles in strength and conditioning. Learn and understand the energy systems, anatomy, physiology and proper lifting technique of strength, speed, agility and conditioning exercises for practical application with athletes.

**Prerequisite:** EXSC 25057 or ATTR 25057 or BSCI 11010 or BSCI 21010; and EXSC 25058 or ATTR 25058 or BSCI 11020 or BSCI 21020.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**EXSC 45065 EXERCISE TESTING 3 Credit Hours**

(Cross-listed with EXPH 55065) Lecture and laboratory experiences dealing with the administration and interpretation of exercise tests.

**Prerequisite:** ATTR 25057 or EXSC 25057 or BSCI 11010 or BSCI 21010; and ATTR 25058 or EXSC 25058 or BSCI 11020 or BSCI 21020.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 2 lecture, 2 lab

**Grade Mode:** Standard Letter

**EXSC 45070 ELECTROCARDIOGRAPHY FOR THE EXERCISE PHYSIOLOGIST 3 Credit Hours**

(Cross-listed with EXPH 55070) Designed to provide students with the knowledge base in electrocardiography. Students work on interpreting the 12-lead electrocardiogram with clinical case studies to enhance the knowledge base of the exercise specialist.

**Prerequisite:** ATTR 25057 or EXSC 25057 or BSCI 11010 or BSCI 21010; and ATTR 25058 or EXSC 25058 or BSCI 11020 or BSCI 21020.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**EXSC 45080 PHYSIOLOGY OF EXERCISE (WIC) 3 Credit Hours**

(Cross-listed with EXPH 55080) Response of the human to acute and chronic exercise with emphasis on the underlying physiological mechanisms.

**Prerequisite:** ATTR 25057 or EXSC 25057 or BSCI 11010 or BSCI 21010; and ATTR 25058 or EXSC 25058 or BSCI 11020 or BSCI 21020.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 2 lecture, 2 lab

**Grade Mode:** Standard Letter

**Attributes:** Writing Intensive Course

**EXSC 45096 INDIVIDUAL INVESTIGATION IN EXERCISE SCIENCE (ELR) 1-3 Credit Hours**

(Repeatable for a maximum of 6 credit hours) Independent study completed under the supervision of a faculty member. Written approval of supervising faculty member and school director required prior to registration.

**Prerequisite:** Special approval.

**Schedule Type:** Individual Investigation

**Contact Hours:** 3-9 other

**Grade Mode:** Standard Letter

**Attributes:** Experiential Learning Requirement

**EXSC 45480 INTERNSHIP SEMINAR IN EXERCISE SCIENCE 1 Credit Hour**

Overview of the internship possibilities that are available for the exercise science major. The American College of Sports Medicine (ACSM) certification workshops and the scope of the practice for the exercises specialist is discussed in detail.

**Prerequisite:** Special approval.

**Schedule Type:** Lecture

**Contact Hours:** 1 lecture

**Grade Mode:** Standard Letter

**EXSC 45481 SEMINAR IN EXERCISE PHYSIOLOGY 1 Credit Hour**

Provides an overview of the research possibilities and the internship possibilities that are available for the exercise science major. The Institutional Review Board, research methodology and the risks and benefits of research in the area of exercise science are discussed in detail. Also covers The American College of Sports Medicine (ACSM) certification workshops and the scope of the practice for the exercises specialist.

**Prerequisite:** Special approval.

**Schedule Type:** Lecture

**Contact Hours:** 1 lecture

**Grade Mode:** Standard Letter

**EXSC 45492 INTERNSHIP IN PHYSICAL FITNESS AND CARDIAC REHABILITATION (ELR) 1-8 Credit Hours**

(Repeatable for a maximum of 8 credit hours) Supervised experience providing practical experience in administration and operation of programs in physical fitness, health enhancement and or cardiac rehabilitation. 45 clock hours per credit hour.

**Prerequisite:** Special approval.

**Schedule Type:** Practical Experience

**Contact Hours:** 3-24 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**Attributes:** Experiential Learning Requirement

**EXSC 46095 SPECIAL TOPICS IN EXERCISE SCIENCE 1-3 Credit Hours**

(Repeatable for credit) Selected topics in exercise science dependent upon interest.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 1-3 lecture

**Grade Mode:** Standard Letter

**Health Education (HED)****HED 11570 PERSONAL HEALTH 3 Credit Hours**

This course examines the leading causes of death and disability in the United States with an emphasis on the application of knowledge and skills to reduce risk and enhance the quality of life.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HED 11590 COMMUNITY HEALTH EDUCATION 3 Credit Hours**

Identification of community health problems and measures for control. Emphasizes principles, objectives and methods of community health education.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HED 13510 WINNING COMBINATION:HEALTH AND ATHLETES 1 Credit Hour**

An exploration of strategies for promoting healthy lifestyles for athletes. The course is reserved for varsity athletes.

**Prerequisite:** Special approval.

**Schedule Type:** Lecture

**Contact Hours:** 1 lecture

**Grade Mode:** Standard Letter

**HED 14020 MEDICAL TERMINOLOGY 3 Credit Hours**

Identification of the meaning of various roots and terms and combining forms that are components of medical words, including anatomical physiological and pathological therapeutic terminology and implications for health literacy.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HED 21030 INTRODUCTION TO HEALTH EDUCATION 3 Credit Hours**

This course introduces the student to the health education profession. Roles and responsibilities of health educators in a variety of occupational settings are described.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HED 21050 HEALTH EDUCATION THEORIES 3 Credit Hours**

Application of various attitude and behavior models to health and illness behavior in order to develop a framework for educational intervention.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HED 30000 TEACHING HEALTH TO YOUNG LEARNERS 3 Credit Hours**

Investigate current health issues relevant to children in primary grades, and identify educational strategies to increase student health knowledge, foster positive health attitudes and promote healthy behaviors.

**Prerequisite:** None.

**Schedule Type:** Lecture, Practical Experience

**Contact Hours:** 2.5 lecture, 1.5 other

**Grade Mode:** Standard Letter

**HED 32530 DRUG USE AND MISUSE 3 Credit Hours**

Introduction to the study of drug/alcohol abuse. Basic pharmacology of drug actions is reviewed. Common myths/misconceptions about drug/alcohol use are examined. Current drug problems and related prevention/treatment issues are analyzed.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HED 32542 METHODS AND APPLICATIONS OF HEALTH EDUCATION (WIC) 5 Credit Hours**

Analysis/observation, demonstration and experience in the teaching-learning process utilizing methods, materials and resources appropriate to the preparation of professional health educators. This course includes 50 field/clinical hours. Students are required to complete Bureau of Criminal Investigation and Identification (BCII) and Federal Bureau of Investigation (FBI) background checks and submit the results to authorized personnel at their assigned school/agency before the first day of the semester in which student teaching/internship will take place.

**Prerequisite:** HED 11570.

**Schedule Type:** Lecture

**Contact Hours:** 5 lecture

**Grade Mode:** Standard Letter

**Attributes:** Writing Intensive Course

**HED 32544 HUMAN SEXUALITY 3 Credit Hours**

A study of the role and meaning of human sexuality throughout the life cycle for self and society.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HED 32565 MARKETING IN HEALTH EDUCATION 3 Credit Hours**

Examines the basic elements of marketing processes as they relate to promoting health in communities. Emphasis on application of marketing planning, concepts and practices for service providers involved with health education.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HED 32575 CONSUMER HEALTH 3 Credit Hours**

An overview of the health marketplace including health products, services, financing, promotional practices and consumer protection laws.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HED 34050 PROGRAM PLANNING AND EVALUATION IN HEALTH EDUCATION 3 Credit Hours**

Provides students with the knowledge and skills to assess health resources and needs, develop health programs to meet specific needs in particular populations and determine appropriate measures to evaluate the effectiveness of health programs.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HED 34060 SMALL GROUP PROCESS 2 Credit Hours**

(Cross-listed with CES 37800) Students learn to understand the dynamics of problem solving groups and how to become effective leaders and members. Topics include climate, goals, decision making, communication, leadership, membership. Experience-based learning combined with conceptualizing.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**HED 36048 EMERGENCY MEDICAL TRAINING 5 Credit Hours**

Basic immediate care procedures for victims of acute illnesses and accidents. Course does not conform to EMT-B National Standard Curriculum as adopted by the Ohio Department of Public Safety, Division of EMS.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 5 lecture

**Grade Mode:** Standard Letter

**HED 40093 VARIABLE TITLE WORKSHOP IN HEALTH EDUCATION AND PROMOTION 1-3 Credit Hours**

(Repeatable for credit) (Slashed with HED 50093 and 70093) Discussion of major issues in health and safety education. Content emphasis and prerequisites vary depending on workshop.

**Prerequisite:** HED 11590; and special approval.

**Schedule Type:** Workshop

**Contact Hours:** 1-3 other

**Grade Mode:** Satisfactory/Unsatisfactory

**HED 42041 HEALTH COACHING 3 Credit Hours**

(Slashed with HED 52041) Techniques of health coaching and motivational interviewing applied to health education. Individual and group approaches relative to personal, family and societal health issues.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HED 42222 ADULTING 101' SEVEN DIMENSIONS TO A HEALTHY ADULTHOOD 2 Credit Hours**

The transition from college to post-college life can be uncertain. A design for the initial post-college years can alleviate the anxiety and stress that are often experienced. This course will examine issues related to a 7 dimensional model of health-financial, environmental, emotional, intellectual, physical, social, occupational-and apply those dimensions to a post-college life design process.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**HED 42392 STUDENT TEACHING IN HEALTH EDUCATION (ELR) 9 Credit Hours**

Provides a twelve week student teaching experience. See student teaching section of catalog. Students are required to complete Bureau of Criminal Investigation and Identification (BCII) and Federal Bureau of Investigation (FBI) background checks and submit the results to authorized personnel at their assigned school/agency before the first day of the semester in which student teaching/ internship will take place.

**Prerequisite:** Eligibility for admission to student teaching and admission to advanced study; and official valid certification of child safety training, approved basic life support and ALICE training must be presented to the campus office of clinical experience or designated faculty/staff at regional campuses as prerequisite for student teaching.

**Schedule Type:** Practical Experience

**Contact Hours:** 27 other

**Grade Mode:** Satisfactory/Unsatisfactory

**Attributes:** Experiential Learning Requirement

**HED 42575 HEALTH AND LEARNING: STRATEGIES FOR STUDENTS AND TEACHERS 3 Credit Hours**

(Slashed with HED 52575) Focus on health issues/education/ environment policy and practice/community strategies to respond to threats confronting students utilizing a coordinated school/community strategy to promote health to improve academic outcomes. CPR and first aid certification required for completion of course.

**Prerequisite:** Admission to advanced study.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HED 44025 WOMEN'S HEALTH ISSUES 3 Credit Hours**

(Slashed with HED 54025) Traditional and feminist analysis of women's health issues and the health educational responses to those issues.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HED 44051 BIOBEHAVIORAL ASPECTS OF DISEASE PREVENTION IN HEALTH EDUCATION AND PROMOTION 3 Credit Hours**

The etiology and pathogenesis of major diseases are studied from a biopsychosocial perspective with an emphasis on implications for disease prevention, health promotion and behavioral intervention.

**Prerequisite:** Junior or senior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HED 44092 INTERNSHIP IN COMMUNITY HEALTH EDUCATION (ELR) 9 Credit Hours**

(Repeatable for credit) Participation for one academic semester in the health education activities of an approved agency, organization or industry.

**Prerequisite:** Senior standing; and special approval.

**Schedule Type:** Practical Experience

**Contact Hours:** 27 other

**Grade Mode:** Satisfactory/Unsatisfactory

**Attributes:** Experiential Learning Requirement

**HED 44095 SPECIAL TOPICS: HEALTH EDUCATION AND PROMOTION 1-3 Credit Hours**

(Repeatable for credit) (Slashed with HED 54095) Selected topics related to public health issues facing professionals in communities, schools, health care settings and the worksite.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 1-3 lecture

**Grade Mode:** Standard Letter

**HED 44096 INDIVIDUAL INVESTIGATION IN HEALTH EDUCATION AND PROMOTION 1-3 Credit Hours**

(Repeatable for credit) (Slashed with HED 54096 and 74096) Independent reading and/or research directed by a HED faculty member.

**Prerequisite:** Permission.

**Schedule Type:** Individual Investigation

**Contact Hours:** 1-3 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**HED 44543 ADMINISTRATION OF SCHOOL HEALTH PROGRAMS 3 Credit Hours**

(Slashed with HED 54543) Organizational design and administration of a comprehensive school health program including health services, instruction and environment. This course includes 25 field/clinical hours. CPR and first aid certification required for completion of course.

**Prerequisite:** Admission to advanced study.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HED 44544 SEXUALITY EDUCATION PROGRAMS 3 Credit Hours**

(Slashed with HED 54544) This course prepares the student to develop, implement and evaluate sexuality education programs in school and community settings.

**Prerequisite:** HED 32544.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HED 44550 DRUG ABUSE AND VIOLENCE EDUCATION PROGRAMS 3 Credit Hours**

(Slashed with HED 54550) Drug abuse and violence prevention from theoretical, philosophical, empirical and practical perspectives.

Application of theories to plan, implement, and evaluate drug and violence education programs.

**Prerequisite:** HED 32530.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HED 46052 STRESS: RECOGNITION AND MANAGEMENT 2 Credit Hours**

(Slashed with HED 56052) An examination of stress, its role as a predisposing factor for various illnesses and diseases, types of stressors, the body's reaction to stress, and techniques for recognizing, preventing and reducing stress.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter



**HED 46057 ADVANCED HUMAN SEXUALITY 3 Credit Hours**  
(Slashed with HED 56057) Selected aspects of human sexuality; history, cross-cultural perspectives, medical/surgical conditions and sex therapy and counseling.

**Prerequisite:** HED 32544.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HED 46070 HEALTH RELATED ASPECTS OF AGING 3 Credit Hours**  
(Slashed with HED 56070) Theories of biological aging and identification of major health hazards, age-related diseases and age changes, their prevention and control. The health care delivery system for the elderly.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HED 47070 AIDS: ISSUES, EDUCATION AND PREVENTION 3 Credit Hours**

(Slashed with HED 57070) This course provides an extensive overview of the human immunodeficiency virus epidemic as it has developed and exists today. A particular emphasis will be given to aids education and prevention issues and strategies.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HED 47091 CURRENT ISSUES IN HEALTH EDUCATION AND PROMOTION 1-3 Credit Hours**

(Repeatable for credit) (Slashed with HED 57091 and 77091) Public health issues facing professionals in communities, schools, health care settings and the worksite.

**Prerequisite:** Junior or senior standing.

**Schedule Type:** Seminar

**Contact Hours:** 1-3 other

**Grade Mode:** Standard Letter

**HED 48092 FIELD EXPERIENCE IN HEALTH EDUCATION AND PROMOTION (ELR) 1-3 Credit Hours**

(Repeatable for credit) (Slashed with HED 58092 and 78092) Observation and participation in educational and promotional activities of a public health agency, school or health care facility. Joint university agency supervision.

**Prerequisite:** Permission.

**Schedule Type:** Field Experience

**Contact Hours:** 3-9 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**Attributes:** Experiential Learning Requirement

**HED 49525 INQUIRY SEMINAR INTO PROFESSIONAL PRACTICE 3 Credit Hours**

Interdisciplinary inquiry into teaching as a professional practice in health education; emphasis on teacher as disciplined investigator. Utilization of teaching and learning technology.

**Prerequisite:** Admission to advanced study.

**Pre/corequisite:** HED 42392.

**Schedule Type:** Seminar

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**HED 50093 VARIABLE TITLE WORKSHOP IN HEALTH EDUCATION AND PROMOTION 1-3 Credit Hours**

(Repeatable for credit) (Slashed with HED 40093 and 70093) Discussion of major issues in health and safety education. Content emphasis vary depending on workshop.

**Prerequisite:** Graduate standing.

**Schedule Type:** Workshop

**Contact Hours:** 1-3 other

**Grade Mode:** Satisfactory/Unsatisfactory

**HED 52041 HEALTH COACHING 3 Credit Hours**

(Slashed with HED 42041) Techniques of health coaching and motivational interviewing applied to health education. Individual and group approaches relative to personal, family and societal health issues.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HED 52575 HEALTH AND LEARNING: STRATEGIES FOR STUDENTS AND TEACHERS 3 Credit Hours**

(Slashed with HED 42575) Focus on health issues/education/environment policy and practice/community strategies to respond to threats confronting students, utilizing a coordinated school community strategy to promote health and improve academic outcomes. CPR first aid certification required for completion of course.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HED 54025 WOMEN'S HEALTH ISSUES 3 Credit Hours**

(Slashed with HED 44025) Traditional and feminist analysis of women's health issues and the health educational responses to those issues.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HED 54051 BIOBEHAVIORAL ASPECTS OF DISEASE PREVENTION IN HEALTH EDUCATION AND PROMOTION 3 Credit Hours**

(Slashed with HED 44051) The etiology and pathogenesis of major diseases are studied from a biopsychosocial perspective with an emphasis on implications for disease prevention, health promotion and behavioral intervention.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HED 54095 SPECIAL TOPICS:HEALTH EDUCATION AND PROMOTION 1-3 Credit Hours**

(Repeatable for credit) (Slashed with HED 44095) Selected topics related to public health issues facing professionals in communities, schools, health care settings and the worksite.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 1-3 lecture

**Grade Mode:** Standard Letter

**HED 54096 INDIVIDUAL INVESTIGATION IN HEALTH EDUCATION AND PROMOTION 1-3 Credit Hours**

(Repeatable for credit) (Slashed with HED 44096 and 74096) Independent reading and/or research directed by a graduate faculty member. Students are required to complete Bureau of Criminal Investigation and Identification (BCII) and Federal Bureau of Investigation (FBI) background checks and submit the results to authorized personnel at their assigned school/agency before the first day of the semester in which student teaching/ internship will take place.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Individual Investigation

**Contact Hours:** 1-3 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**HED 54543 ADMINISTRATION OF SCHOOL HEALTH PROGRAMS 3 Credit Hours**

(Slashed with HED 44543) Organizational design and administration of a comprehensive school health program including health services, instruction and environment. This course includes 25 field/clinical hours. CPR and first aid certification required for completion of course.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HED 54544 SEXUALITY EDUCATION PROGRAMS 3 Credit Hours**

(Slashed with HED 44544) This course prepares the student to develop, implement and evaluate sexuality education programs in school and community settings.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HED 54550 DRUG ABUSE AND VIOLENCE EDUCATION PROGRAMS 3 Credit Hours**

(Slashed with HED 44550) Drug abuse and violence prevention from theoretical, philosophical, empirical, and practical perspectives. Application of theories to plan, implement, and evaluate drug and violence education programs.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HED 56052 STRESS: RECOGNITION AND MANAGEMENT 2 Credit Hours**

(Slashed with HED 46052) An examination of stress, its role as a predisposing factor for various illnesses and diseases, types of stressors, the body's reaction to stress, and techniques for recognizing, preventing and reducing stress.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**HED 56057 ADVANCED HUMAN SEXUALITY 3 Credit Hours**

(Slashed with HED 46057) Selected aspects of human sexuality: history, cross-cultural perspectives, medical/surgical therapy and counseling.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HED 56070 HEALTH RELATED ASPECTS OF AGING 3 Credit Hours**

(Slashed with HED 46070) Theories of biological aging and identification of major health hazards, age-related diseases and age changes, their prevention and control. The health care delivery system for the elderly.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HED 57070 AIDS:ISSUES, EDUCATION AND PREVENTION 3 Credit Hours**

(Slashed with HED 47070) This course provides an extensive overview of the human immunodeficiency virus epidemic as it has developed and exists today. A particular emphasis will be given to AIDS education and prevention issues and strategies.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HED 57091 CURRENT ISSUES IN HEALTH EDUCATION AND PROMOTION 1-3 Credit Hours**

(Repeatable for credit) (Slashed with HED 47091 and 77091) Public health issues facing professionals in communities, schools, health care settings and the worksite.

**Prerequisite:** Graduate standing.

**Schedule Type:** Seminar

**Contact Hours:** 1-3 other

**Grade Mode:** Standard Letter

**HED 58092 FIELD EXPERIENCE IN HEALTH EDUCATION AND PROMOTION 1-3 Credit Hours**

(Repeatable for credit) (Slashed with HED 48092 and 78092) Observation and participation in educational and promotional activities of a public health agency, school, or health care facility joint university-agency supervision. Students are required to complete Bureau of Criminal Investigation and Identification (BCII) and Federal Bureau of Investigation (FBI) background checks and submit the results to authorized personnel at their assigned school/agency before the first day of the semester in which student teaching/ internship will take place.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Field Experience

**Contact Hours:** 3-9 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**HED 60199 THESIS I 2-6 Credit Hours**

Thesis students must register for a total of 6 hours, 2 to 6 hours in a single semester distributed over several semesters if desired.

**Prerequisite:** Graduate standing.

**Schedule Type:** Masters Thesis

**Contact Hours:** 2-6 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**HED 60299 THESIS II 2 Credit Hours**

Thesis students must continue registration each semester until all degree requirements are met.

**Prerequisite:** HED 60199; and graduate standing.

**Schedule Type:** Masters Thesis

**Contact Hours:** 2 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**HED 64030 INTRODUCTION TO RESEARCH AND DATA ANALYSIS IN HEALTH EDUCATION AND PROMOTION 3 Credit Hours**

Introduction of research methods in the field of health education and health promotion. Includes basic knowledge and skills in research design and concepts of descriptive and inferential statistics.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HED 64050 HEALTH BEHAVIOR 3 Credit Hours**

(Slashed with HED 84050) Analysis of a broad range of theoretical and empirical models of health and illness behavior.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HED 64055 NEEDS ASSESSMENT AND EVALUATION IN HEALTH PROMOTION 3 Credit Hours**

(Slashed with HED 84055) Students will assess individual and community needs for health promotion programs based on multiple sources of health data. Students will develop a rational plan to meet identified needs.

**Prerequisite:** HED 64061 and HED 64050 and HED 64063 and HED 64059; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HED 64057 PROGRAM PLANNING AND IMPLEMENTATION IN HEALTH PROMOTION 3 Credit Hours**

(Slashed with HED 84057) Students will develop, implement, and evaluate a health education and promotion program plan specific to a target audience and health issue.

**Prerequisite:** HED 64050 and HED 64055 and HED 64061 and HED 64063; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HED 64058 DEVELOPMENTAL APPROACHES IN TEACHING SCHOOL HEALTH EDUCATION 3 Credit Hours**

(Slashed with HED 84058) Develop and implement developmentally appropriate health education unit plans, methods, techniques, and strategies with K-12 school populations.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HED 64059 COMMUNICATION AND MARKETING IN HEALTH EDUCATION AND PROMOTION 3 Credit Hours**

(Slashed with HED 84059) Introduction to the theory and practice of planning, implementing, and evaluating marketing and communication programs in health promotion.

**Prerequisite:** HED 64050 and HED 64061; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HED 64061 FOUNDATIONS OF HEALTH EDUCATION AND PROMOTION 3 Credit Hours**

(Slashed with HED 84061) Historical, sociological and philosophical factors that have influenced definitions and the practice of health education and promotion are studied. Professional associations/ leadership, government initiatives, standards of practice and accreditations are examined.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HED 64062 ADMINISTRATION AND GRANT WRITING IN HEALTH PROMOTION 3 Credit Hours**

(Slashed with HED 84062) Basic concepts in the administration of health education promotion programs and grant writing. Coordination of program services, consultative relationships, management of human and fiscal resources, and organizational leadership are addressed as well as grant writing skills.

**Prerequisite:** HED 64061 and Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HED 64063 STRATEGIES IN HEALTH EDUCATION AND PROMOTION 3 Credit Hours**

(Slashed with HED 84063) Health education and promotion methods, techniques and strategies are presented for a variety of audiences, learning environments and intervention levels.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HED 64070 WORKSITE HEALTH PROMOTION 3 Credit Hours**

(Slashed with HED 84070) Program planning and evaluation of health promotion programs in business and industry with an emphasis on the role of health educators.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HED 64080 ADVOCACY AND POLICY ISSUES IN HEALTH EDUCATION AND PROMOTION 3 Credit Hours**

(Slashed with HED 84080) Emphasizes the advocacy role of health educators. Includes use of research results to develop, analyze and influence health policy.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HED 64094 COLLEGE TEACHING OF HEALTH EDUCATION AND PROMOTION 2 Credit Hours**

(Repeatable for credit) (Cross-listed with HED 84094) Guided experiences in teaching selected undergraduate courses.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Practical Experience

**Contact Hours:** 2 other

**Grade Mode:** Satisfactory/Unsatisfactory

**HED 64096 INDIVIDUAL INVESTIGATION: READINGS IN HEALTH EDUCATION AND PROMOTION 1-3 Credit Hours**

(Slashed with HED 84096) Independent study of approved topics in health and safety education related to the student's special interests. Adviser's permission required to repeat registration one time.

**Prerequisite:** Health Education or Public Health major; and graduate standing; and special approval.

**Schedule Type:** Individual Investigation

**Contact Hours:** 3-9 other

**Grade Mode:** Standard Letter-S/U

**HED 64098 PROJECT IN HEALTH EDUCATION AND PROMOTION 1-3 Credit Hours**

(Repeatable for credit) (Slashed with HED 84098) Research or individual investigation for master's level graduate students.

**Prerequisite:** Grading standing; and special approval.

**Schedule Type:** Research

**Contact Hours:** 1-3 other

**Grade Mode:** Standard Letter

**HED 70093 VARIABLE TITLE WORKSHOP IN HEALTH EDUCATION AND PROMOTION 1-3 Credit Hours**

(Repeatable for credit) (Slashed with HED 40093 and 50093) Discussion of major issues in health and safety education. Content emphasis and prerequisites vary depending on workshop.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Workshop

**Contact Hours:** 1-3 other

**Grade Mode:** Satisfactory/Unsatisfactory

**HED 74096 INDIVIDUAL INVESTIGATION IN HEALTH EDUCATION AND PROMOTION 1-3 Credit Hours**

(Repeatable for credit) (Slashed with HED 44096 and 54096) Independent reading and/or research directed by a graduate faculty member.

Students are required to complete Bureau of Criminal Investigation and Identification (BCII) and Federal Bureau of Investigation (FBI) background checks and submit the results to authorized personnel at their assigned school/agency before the first day of the semester in which student teaching/ internship will take place.

**Prerequisite:** Doctoral standing; and special approval.

**Schedule Type:** Individual Investigation

**Contact Hours:** 1-3 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**HED 77091 CURRENT ISSUES IN HEALTH EDUCATION AND PROMOTION 1-3 Credit Hours**

(Repeatable for credit) (Slashed with HED 47091 and 57091) Public health issues facing professionals in communities, schools, health care settings and the worksite.

**Prerequisite:** Graduate standing.

**Schedule Type:** Seminar

**Contact Hours:** 1-3 other

**Grade Mode:** Standard Letter

**HED 78092 FIELD EXPERIENCE IN HEALTH EDUCATION AND PROMOTION 1-3 Credit Hours**

(Repeatable for credit) (Slashed with HED 48092 and 58092) Observation and participation in educational and promotional activities of a public health agency, school or health care facility joint university-agency supervision. Students are required to complete Bureau of Criminal Investigation and Identification (BCII) and Federal Bureau of Investigation (FBI) background checks and submit the results to authorized personnel at their assigned school/agency before the first day of the semester in which student teaching/ internship will take place.

**Prerequisite:** Doctoral standing; and special approval.

**Schedule Type:** Field Experience

**Contact Hours:** 3-9 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**HED 80199 DISSERTATION I 15 Credit Hours**

(Repeatable for credit) Registration for two semesters required, first semester dissertation work begins and continues until completion of 30 hours.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Dissertation

**Contact Hours:** 15 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**HED 80292 PRACTICUM IN HEALTH EDUCATION AND PROMOTION 3 Credit Hours**

(Repeatable for credit) In this course, students obtain permission to work with an individual faculty member on research, community projects, or other professional activities in various health education settings (school, community, medical care, worksite). Assignments are individualized to meet the needs of the practicum experience.

**Prerequisite:** Doctoral standing; and special approval.

**Schedule Type:** Practical Experience

**Contact Hours:** 9 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**HED 80299 DISSERTATION II 15 Credit Hours**

(Repeatable for credit) Continuing registration required of doctoral students who have completed the initial 30 hours of dissertation and continuing until degree requirements are met.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Dissertation

**Contact Hours:** 15 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**HED 81100 RESIDENCY SEMINAR: SYNTHESIS OF LITERATURE IN HEALTH EDUCATION AND PROMOTION 3 Credit Hours**

Exploration of philosophical, theoretical and empirical issues in health education and promotion. Students synthesize courses, research and practice in preparation for comprehensive examinations.

**Prerequisite:** Doctoral standing; and special approval of instructor.

**Schedule Type:** Seminar

**Contact Hours:** 3 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**HED 81150 SEMINAR: PROFESSIONAL DEVELOPMENT IN HEALTH EDUCATION AND PROMOTION 3 Credit Hours**

Focuses on the process, practice and documentation of professional development in health education and promotion in the areas of instruction, program development, research and evaluation.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Satisfactory/Unsatisfactory

**HED 81200 RESIDENCY SEMINAR: RESEARCH PROPOSAL, DEVELOPMENT AND PRESENTATION 3 Credit Hours**

Review of the role of research and scholarly pursuits in the professorate, the professional health education literature, and in the development and dissemination of a range of scholarly products. Identification of requisite elements of a dissertation in health education and promotion. Refinement of a professional vita, updating of doctoral program prospectus, specification of dissertation topic, identification of potential dissertation committee members, development and presentation of draft dissertation proposal.

**Prerequisite:** Doctoral standing; and special approval of instructor.

**Schedule Type:** Seminar

**Contact Hours:** 3 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**HED 81300 HEALTH EDUCATION PRACTICE 3 Credit Hours**

Investigation of various health education settings including analysis of agency programming efforts and comparison to evidence-based practice. Application of community assessment, socioecological model, and community-based participatory research principles. Analysis of how health education theory and research are implemented in various practice settings.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HED 81400 RESEARCH DISSEMINATION AND TECHNICAL WRITING IN HEALTH EDUCATION AND PROMOTION 3 Credit Hours**

Examination and practice of technical writing for research proposals, technical reports, and journal publications in health education and promotion. Other methods of disseminating research such as preparation and submission of conference presentation applications and writing as part of consultative relationships with community agencies is explored.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HED 81450 ADVANCED PROGRAM EVALUATION IN HEALTH EDUCATION AND PROMOTION 3 Credit Hours**

A review of evaluation methods used in health education programs. Emphasis is placed on data collection procedures, linking program activities to outcomes, participant attrition and reporting of the results.

**Prerequisite:** HED 64055 and HED 64057; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HED 81550 APPLIED THEORY IN HEALTH EDUCATION RESEARCH AND PRACTICE 3 Credit Hours**

Examination of theory/models/hypotheses applied to specific health behaviors. Emphasis on operationalization of theoretical constructs.

**Prerequisite:** HED 64050 or HED 74050.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HED 84030 INTRODUCTION TO RESEARCH AND DATA ANALYSIS IN HEALTH EDUCATION AND PROMOTION 3 Credit Hours**

Introduction of research methods in the field of health education and health promotion. Includes basic knowledge and skills in research design and concepts of descriptive and inferential statistics.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HED 84050 HEALTH BEHAVIOR 3 Credit Hours**

(Slashed with HED 64050) Analysis of a broad range of theoretical and empirical models of health and illness behavior.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HED 84051 BIOBEHAVIORAL ASPECTS OF DISEASE PREVENTION IN HEALTH EDUCATION AND PROMOTION 3 Credit Hours**

The etiology and pathogenesis of major diseases are studied from a biopsychosocial perspective with an emphasis on implications for disease prevention, health promotion and behavioral intervention.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HED 84055 NEEDS ASSESSMENT AND EVALUATION IN HEALTH PROMOTION 3 Credit Hours**

(Slashed with HED 64055) Students will assess individual and community needs for health promotion programs based on multiple sources of health data. Students will develop a rational plan to meet identified needs.

**Prerequisite:** HED 64050 or 84050; and HED 64059 or 84059; and HED 64061 or 84061; and HED 64063 or 84063; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HED 84057 PROGRAM PLANNING AND IMPLEMENTATION IN HEALTH PROMOTION 3 Credit Hours**

(Slashed with HED 64057) Students will develop, implement, and evaluate a health education and promotion program plan specific to a target audience and health issue.

**Prerequisite:** HED 64050 or 84050; and HED 64055 or 84055; and HED 64061 or 84061; and HED 64063 or 84063; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HED 84058 DEVELOPMENTAL APPROACHES IN TEACHING SCHOOL HEALTH EDUCATION 3 Credit Hours**

(Slashed with HED 64058) Develop and implement developmentally appropriate health education unit plans, methods, techniques, and strategies with K12 school populations.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter



**HED 84059 COMMUNICATION AND MARKETING IN HEALTH EDUCATION AND PROMOTION 3 Credit Hours**

(Slashed with HED 64059) Introduction to the theory and practice of planning, implementing, and evaluating marketing and communication programs in health promotion.

**Prerequisite:** HED 64050 or 84050; and HED 64061 or 84061; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HED 84061 FOUNDATIONS OF HEALTH EDUCATION AND PROMOTION 3 Credit Hours**

(Slashed with HED 64061) Historical, sociological and philosophical factors that have influenced definitions and the practice of health education and promotion are studied. Professional associations/ leadership, government initiatives, standards of practice and accreditations are examined.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HED 84062 ADMINISTRATION AND GRANT WRITING IN HEALTH PROMOTION 3 Credit Hours**

(Slashed with HED 64062) Basic concepts in the administration of health education promotion programs and grant writing. Coordination of program services, consultative relationships, management of human and fiscal resources, and organizational leadership are addressed as well as grant writing skills.

**Prerequisite:** HED 64061 or 84061; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HED 84063 STRATEGIES IN HEALTH EDUCATION AND PROMOTION 3 Credit Hours**

(Slashed with HED 64063) Health education and promotion methods, techniques and strategies are presented for a variety of audiences, learning environments and intervention levels.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HED 84066 HEALTH IN THE DEVELOPING NATIONS 3 Credit Hours**

Overview of national development, review of problems process and strategy of health development.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HED 84070 WORKSITE HEALTH PROMOTION 3 Credit Hours**

(Slashed with HED 64070) Program planning and evaluation of health promotion programs in business and industry with an emphasis on the role of health educators.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HED 84080 ADVOCACY AND POLICY ISSUES IN HEALTH EDUCATION AND PROMOTION 3 Credit Hours**

(Slashed with HED 64080) Emphasizes the advocacy role of health educators. Includes use of research results to develop analyze and influence health policy.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HED 84094 COLLEGE TEACHING OF HEALTH EDUCATION AND PROMOTION 2 Credit Hours**

(Repeatable for credit) (Slashed with HED 64094) Guided experiences in teaching selected undergraduate courses.

**Prerequisite:** Doctoral standing; and special approval.

**Schedule Type:** Practical Experience

**Contact Hours:** 2 other

**Grade Mode:** Satisfactory/Unsatisfactory

**HED 84096 INDIVIDUAL INVESTIGATION: READINGS IN HEALTH EDUCATION AND PROMOTION 1-3 Credit Hours**

(Slashed with HED 64096) Independent study of approved topics in health and safety education related to the student's special interests. Adviser's permission required to repeat registration one time.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Individual Investigation

**Contact Hours:** 3-9 other

**Grade Mode:** Standard Letter-S/U

**HED 84098 PROJECT IN HEALTH EDUCATION AND PROMOTION 1-3 Credit Hours**

(Repeatable for credit) (Slashed with HED 64098) Research or individual investigation for doctoral level graduate students.

**Prerequisite:** Doctoral standing and special approval.

**Schedule Type:** Research

**Contact Hours:** 1-3 other

**Grade Mode:** Standard Letter

**Integrated Health Studies (IHS)****IHS 10000 CAREERS IN HEALTH SCIENCES AND HUMAN SERVICES 3 Credit Hours**

This course presents the diverse career options in the fields of health sciences and human services. Academic preparation and credentialing for professions will be included.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**IHS 40091 SEMINAR FOR PRACTICUM IN INTEGRATED HEALTH STUDIES 2 Credit Hours**

(Repeatable for credit) Seminar focuses on applying concepts from previous educational experiences to the practicum work experience.

**Prerequisite:** IHS 10000.

**Corequisite:** IHS 44092.

**Schedule Type:** Seminar

**Contact Hours:** 2 other

**Grade Mode:** Standard Letter

**IHS 44010 RESEARCH DESIGN AND STATISTICAL METHODS IN THE HEALTH PROFESSIONS 3 Credit Hours**

Fundamental concepts and procedures for systematic collection, analysis and interpretation of qualitative and quantitative data in health related fields includes group and single-subject designs and use of parametric and nonparametric statistics.

**Prerequisite:** PSYC 21621.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**IHS 44091 PROFESSIONAL SEMINAR IN INTEGRATED HEALTH STUDIES (WIC) 3 Credit Hours**

(Repeatable for credit) This course presents and integrates the role of scientists, practitioners and administrators in the health care and human service professions as they attempt to meet the needs of the individual in diverse environments. Current issues will be addressed. 400 hours observation/work experience in health/human service-related fields required prior to registration for this course.

**Prerequisite:** Senior standing; and special approval.

**Schedule Type:** Seminar

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**Attributes:** Writing Intensive Course

**IHS 44092 PRACTICUM IN INTEGRATED HEALTH STUDIES (ELR) 3-10 Credit Hours**

(Repeatable for credit) Practicum focuses on providing supervised practical experience in a health science, health care and human services organization which allows students to apply theoretical knowledge and skills learned in their coursework.

**Prerequisite:** Integrated health studies majors; and senior standing; and special approval.

**Corequisite:** IHS 40091.

**Schedule Type:** Practical Experience

**Contact Hours:** 9-30 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**Attributes:** Experiential Learning Requirement

**IHS 44095 SPECIAL TOPICS IN INTEGRATED HEALTH STUDIES 1-3 Credit Hours**

(Repeatable for credit) Selected topics in integrated health dependent upon interest.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 1-3 lecture

**Grade Mode:** Standard Letter

**IHS 44096 INDIVIDUAL INVESTIGATION IN INTEGRATED HEALTH 1-3 Credit Hours**

(Repeatable for credit) Independent study completed under the supervision of a faculty member. Written approval of supervising faculty member and school director required prior to registration.

**Prerequisite:** Special approval.

**Schedule Type:** Individual Investigation

**Contact Hours:** 3-9 other

**Grade Mode:** Standard Letter-IP

**Nutrition (NUTR)****NUTR 10011 NUTRITIONAL OUTREACH: A HOW-TO FOR LIFE-LONG HEALTHY EATING 1 Credit Hour**

Teaches basic nutrition information for healthy eating, including the important nutritional aspects of cooking, shopping, dining and disease prevention related to dietary intake.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 1 lecture

**Grade Mode:** Standard Letter

**NUTR 23012 INTRODUCTORY FOOD SCIENCE 3 Credit Hours**

(Cross-listed with HM 23012) Principles of food preparation and quality evaluation, with an emphasis on food science concepts, nutrition, food consumption trends and government regulation.

**Prerequisite:** NUTR 23511.

**Schedule Type:** Laboratory, Lecture, Combined Lecture and Lab

**Contact Hours:** 2 lecture, 3 lab

**Grade Mode:** Standard Letter

**NUTR 23112 INTRODUCTION TO THE PROFESSION: NUTRITION AND DIETETICS 1 Credit Hour**

Discusses academic requirements for the Nutrition major, the history of the nutrition profession as well as current credentialing and licensing requirements. Explores the opportunities within the field of dietetics. Teaches methods to document academic, personal and professional skills.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 1 lecture

**Grade Mode:** Standard Letter

**NUTR 23510 QUANTITY FOOD PRODUCTION, SERVICE AND SAFETY 3 Credit Hours**

(Cross-listed with HM 23510) The application of management principles in quantity food production and service systems, including safety and sanitation; production forecasting and management; distribution; and service, commercial equipment and physical facilities. Introduction to inventory, recipe standardization and considerations of nutrition, quality and sustainability in quantity production.

**Prerequisite:** NUTR 23112.

**Schedule Type:** Laboratory, Lecture, Combined Lecture and Lab

**Contact Hours:** 2 lecture, 3 lab

**Grade Mode:** Standard Letter

**NUTR 23511 SCIENCE OF HUMAN NUTRITION (KBS) 3 Credit Hours**

Basic concepts and principles in the science of human nutrition, energy balance and weight control, individual nutrient needs, diet selection, nutrition related metabolism and physiological functions, nutritional diseases and current human nutrition controversies.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Kent Core Basic Sciences, TAG Health

**NUTR 33512 INTERMEDIATE NUTRITION SCIENCE 3 Credit Hours**

Functions, sources, utilization and interactions of essential nutrients and associated physiology. Principles of designing a healthy diet using dietary standards and guidelines while considering nutrient needs of different populations.

**Pre/corequisite:** CHEM 20481 or CHEM 30481.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**NUTR 33522 INTRODUCTION TO NUTRITION ASSESSMENT 3 Credit Hours**

Application of nutrition principles, including nutrition-focused physical assessment, dietary intake assessment, nutrition surveys, introduction to medical records, nutrition interviewing, dietary standards and food exchange lists.

**Prerequisite:** NUTR 23511 and PSYC 11762 and SOC 12050; and nutrition major.

**Schedule Type:** Laboratory, Lecture, Combined Lecture and Lab

**Contact Hours:** 2 lecture, 2 lab

**Grade Mode:** Standard Letter

**NUTR 33532 BUSINESS AND MANAGEMENT OF NUTRITION SERVICES 3 Credit Hours**

Course explores the business management side of dietetics. Covers application of management theories, from dietetic programs and services to budgeting, billing and coding, in addition to quality improvement in dietetics programs and departments.

**Prerequisite:** NUTR 23511.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**NUTR 35319 NUTRITION, HEALTH AND SOCIETY 3 Credit Hours**

Course explores the role of environment, food, nutrition and lifestyle choices in promoting health and preventing disease. Focus is on the fundamentals of public policy, including legislative and regulatory basis of nutrition and dietetics practices.

**Prerequisite:** NUTR 23511.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**NUTR 41095 SPECIAL TOPICS IN NUTRITION 1-4 Credit Hours**

(Repeatable for credit)(Slashed with NUTR 51095) Discussion of a major topic within a specific field in nutrition and dietetics. Topic varies per course offering.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 1-4 lecture

**Grade Mode:** Standard Letter

**NUTR 41096 INDIVIDUAL INVESTIGATION IN NUTRITION 1-3 Credit Hours**

(Repeatable for credit) Students undertake an independent study in an area of nutrition and dietetics that is not covered by a regular course offering, with the guidance of a Kent State faculty member.

**Prerequisite:** Special approval.

**Schedule Type:** Individual Investigation

**Contact Hours:** 1-3 other

**Grade Mode:** Standard Letter

**NUTR 43013 RESEARCH AND STATISTICAL METHODS IN NUTRITION AND DIETETICS (WIC) 3 Credit Hours**

(Slashed with NUTR 53013) Student gain experience in research methods related to nutrition and dietetics, principles of experimental design, data analysis and techniques of scientific writing.

**Prerequisite:** NUTR 33512.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Writing Intensive Course

**NUTR 43016 WORLD FOOD CUSTOMS AND NUTRITION 3 Credit Hours**

(Slashed with NUTR 53016) Understanding the interrelationship between food and agricultural practices of racial, ethnic and religious populations globally.

**Prerequisite:** NUTR 23511 and SOC 12050.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**NUTR 43030 FOOD SERVICE SYSTEMS MANAGEMENT 3 Credit Hours**

(Slashed with NUTR 53030)(Cross-listed with HM 43030 and HM 53030) Food service systems management, including systems theory; menu planning and evaluation; procurement; food production systems; sustainability; layout and design basics. Management concepts in non-commercial food service, including financial control, marketing, quality, management, leadership and human resources.

**Prerequisite:** HM 23012 or NUTR 23012; and HM 23510 or NUTR 23510.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**NUTR 43511 MEDICAL NUTRITION THERAPY I 3 Credit Hours**

(Slashed with NUTR 53511) Exploration of the nutrition care process, including documentation, standardized language, nutrition assessment, interpretation of laboratory values and individualized patient care and planning for disease and nutrition needs. Students engage in case studies and nutrition assessment exercises.

**Prerequisite:** BSCI 30130 and CHEM 30284 and NUTR 33512.

**Schedule Type:** Laboratory, Lecture, Combined Lecture and Lab

**Contact Hours:** 2 lecture, 2 lab

**Grade Mode:** Standard Letter

**NUTR 43512 MACRONUTRIENT NUTRITIONAL BIOCHEMISTRY 3 Credit Hours**

(Slashed with NUTR 53512) Course explores the mechanisms through which the macronutrients meet biological needs and how these related to applied human nutrition.

**Prerequisite:** BSCI 30130 and CHEM 30284 and NUTR 33512.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**NUTR 43513 MICRONUTRIENT NUTRITIONAL BIOCHEMISTRY 3 Credit Hours**

(Slashed with NUTR 53513) Course explores the mechanisms through which micronutrients meet human biological needs in the relationship to underlying applied human nutrition.

**Prerequisite:** BSCI 30130 and CHEM 30284 and NUTR 33512.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**NUTR 43514 MEDICAL NUTRITION THERAPY II 3 Credit Hours**

(Slashed with NUTR 53514) Continued exploration of the nutrition care process, including relevant documentation, standardized language, nutrition assessment, interpretation of laboratory values and individualized patient care and planning for disease and nutritional needs. Students engage in case studies and nutritional assessments.

**Prerequisite:** NUTR 43511.

**Schedule Type:** Laboratory, Lecture, Combined Lecture and Lab

**Contact Hours:** 2 lecture, 2 lab

**Grade Mode:** Standard Letter

**NUTR 43515 COMMUNITY NUTRITION (ELR) 3 Credit Hours**

(Slashed with NUTR 53515) Introduction to nutrition problems and practices in the community. Principles and techniques of effective education, learning and behavior change theories and techniques. Includes an experiential laboratory component with a focus on planning, implementation, evaluation and outcomes in nutrition education, as well as nutrition communication, programming and counseling techniques.

**Prerequisite:** NUTR 33512 and NUTR 33522 and NUTR 33532.

**Schedule Type:** Laboratory, Lecture

**Contact Hours:** 2 lecture, 2 lab

**Grade Mode:** Standard Letter

**Attributes:** Experiential Learning Requirement

**NUTR 43518 LIFECYCLE NUTRITION 3 Credit Hours**

(Slashed with NUTR 53518) Explores the nutrition needs through growth, development and aging. Focus is on nutritional needs and issues during conception, pregnancy, lactation, infancy, childhood, adolescence, adulthood and older adulthood.

**Prerequisite:** NUTR 33512.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**NUTR 43520 SPORTS NUTRITION 3 Credit Hours**

(Slashed with NUTR 53520) Course focuses on the relationship between nutrition and exercise and the effect of nutrition on sports performance.

**Prerequisite:** NUTR 33512.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**NUTR 43521 FOOD CHOICES FOR PRESCRIBED DIETARY MODIFICATION 2 Credit Hours**

(Slashed with NUTR 53521) Adapting adequate normal diet in terms of food choices to accommodate prescribed food restriction or bodily dysfunction.

**Prerequisite:** NUTR 23511; course is not open to students in the nutrition major.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**NUTR 43522 INTEGRATIVE AND FUNCTIONAL NUTRITION 2 Credit Hours**

(Slashed with NUTR 53522) Introduces the foundations of integrative and functional medicine as it relates to nutrition. Includes personalized nutrition, nutrigenomics, complementary and alternative therapies, nutraceuticals and functional foods, in addition to the interaction of food on supplement and drug efficacy.

**Prerequisite:** NUTR 33512.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**NUTR 43523 NUTRITION AND DIETETICS: PROFESSIONAL PRACTICE 1 Credit Hour**

Development of professional awareness. Evaluation of professional growth and formulation of plans for continued growth.

**Prerequisite:** Nutrition major; and senior standing.

**Schedule Type:** Lecture

**Contact Hours:** 1 lecture

**Grade Mode:** Standard Letter

**NUTR 43532 METHODS AND EXPERIENCES IN NUTRITION OUTREACH 3 Credit Hours**

(Slashed with NUTR 53532) Students learn methods for development and evaluation techniques used for nutrition outreach programming; the role of community nutrition education in public health; and the impact of nutrition programming on disease prevention and management. Students engage in service learning opportunities in community nutrition education.

**Prerequisite:** Special approval.

**Schedule Type:** Field Experience, Lecture

**Contact Hours:** 2.5 lecture, .5 other

**Grade Mode:** Standard Letter

**NUTR 45092 PRACTICUM IN NUTRITION (ELR) 1-3 Credit Hours**

Application of education in pre-professional experience in clinical, community and nutrition foodservice environments. Combination of nutrition experiences throughout the semester.

**Prerequisite:** Special approval.

**Schedule Type:** Practical Experience

**Contact Hours:** 3-9 other

**Grade Mode:** Standard Letter

**Attributes:** Experiential Learning Requirement

**NUTR 45098 RESEARCH IN NUTRITION (ELR) 1-3 Credit Hours**

Students engage in research under the supervision of a nutrition faculty member. Students may develop a research idea or work on faculty-led research.

**Prerequisite:** Special approval.

**Schedule Type:** Research

**Contact Hours:** 3-9 other

**Grade Mode:** Standard Letter

**Attributes:** Experiential Learning Requirement

**NUTR 51095 SPECIAL TOPICS IN NUTRITION 1-4 Credit Hours**

(Repeatable for credit)(Slashed with NUTR 41095) Discussion of a major topic within a specific field in nutrition and dietetics. Topic varies per course offering.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 1-4 lecture

**Grade Mode:** Standard Letter

**NUTR 51096 INDIVIDUAL INVESTIGATION IN NUTRITION 1-3 Credit Hours**

(Repeatable for credit) Students undertake an independent study in an area of nutrition and dietetics that is not covered by a regular course offering, with the guidance of a Kent State faculty member.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Individual Investigation

**Contact Hours:** 1-3 other

**Grade Mode:** Standard Letter

**NUTR 53013 RESEARCH AND STATISTICAL METHODS IN NUTRITION 3 Credit Hours**

(Slashed with NUTR 43013) Students gain experience in research methods related to nutrition and dietetics, principles of experimental design, data analysis and techniques of scientific writing.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**NUTR 53016 WORLD FOOD CUSTOMS AND NUTRITION 3 Credit Hours**

(Slashed with NUTR 43016) Understanding the interrelationship between food and agricultural practices of racial, ethnic and religious populations globally.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**NUTR 53030 FOOD SERVICE SYSTEMS MANAGEMENT 3 Credit Hours**

(Slashed with NUTR 43030)(Cross-listed with HM 43030 and HM 53030) Food service systems management, including systems theory; menu planning and evaluation; procurement; food production systems; sustainability; layout and design basics. Management concepts in non-commercial food service, including financial control, marketing, quality, management, leadership and human resources.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**NUTR 53511 MEDICAL NUTRITION THERAPY I 3 Credit Hours**

(Slashed with NUTR 43511) Exploration of the nutrition care process, including documentation, standardized language, nutrition assessment, interpretation of laboratory values and individualized patient care and planning for disease and nutrition needs. Students engage in case studies and nutrition assessment exercises.

**Prerequisite:** Graduate standing.

**Schedule Type:** Laboratory, Lecture, Combined Lecture and Lab

**Contact Hours:** 2 lecture, 2 lab

**Grade Mode:** Standard Letter

**NUTR 53512 MACRONUTRIENT NUTRITIONAL BIOCHEMISTRY 3 Credit Hours**

(Slashed with NUTR 43512) Course explores the mechanisms through which the macronutrients meet biological need and how these related to applied human nutrition.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**NUTR 53513 MICRONUTRIENT NUTRITIONAL BIOCHEMISTRY 3 Credit Hours**

(Slashed with NUTR 43513) Course explores the mechanisms through which micronutrients meet human biological needs in the relationship to underlying applied human nutrition.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**NUTR 53514 MEDICAL NUTRITION THERAPY II 3 Credit Hours**

(Slashed with NUTR 43514) Continued exploration of the nutrition care process, including relevant documentation, standardized language, nutrition assessment, interpretation of laboratory values and individualized patient care and planning for disease and nutritional needs. Students engage in case studies and nutritional assessments.

**Prerequisite:** Graduate standing.

**Schedule Type:** Laboratory, Lecture, Combined Lecture and Lab

**Contact Hours:** 2 lecture, 2 lab

**Grade Mode:** Standard Letter

**NUTR 53515 COMMUNITY NUTRITION 3 Credit Hours**

(Slashed with NUTR 43515) Introduction to nutrition problems and practices in the community. Principles and techniques of effective education, learning and behavior change theories and techniques. Includes an experiential laboratory component with a focus on planning, implementation, evaluation and outcomes in nutrition education, as well as nutrition communication, programming and counseling techniques.

**Prerequisite:** Graduate standing.

**Schedule Type:** Laboratory, Lecture, Combined Lecture and Lab

**Contact Hours:** 2 lecture, 2 lab

**Grade Mode:** Standard Letter

**NUTR 53518 LIFECYCLE NUTRITION 3 Credit Hours**

(Slashed with NUTR 43518) Explores the nutrition needs through growth, development and aging. Focus is on nutritional needs and issues during conception, pregnancy, lactation, infancy, childhood, adolescence, adulthood and older adulthood.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**NUTR 53520 SPORTS NUTRITION 3 Credit Hours**

(Slashed with NUTR 43520) Course focuses on the relationship between nutrition and exercise and the effect of nutrition on sports performance.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**NUTR 53521 FOOD CHOICES FOR PRESCRIBED DIETARY MODIFICATION 2 Credit Hours**

Adapting adequate normal diet in terms of food choices to accommodate prescribed food restriction or bodily dysfunction.

**Prerequisite:** NUTR 23511; course is not open to students in the nutrition major.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**NUTR 53522 INTEGRATIVE AND FUNCTIONAL NUTRITION 2 Credit Hours**

(Slashed with NUTR 43522) Introduces the foundations of integrative and functional medicine as it relates to nutrition. Includes personalized nutrition, nutrigenomics, complementary and alternative therapies, nutraceuticals and functional foods, in addition to the interaction of food on supplement and drug efficacy.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter



**NUTR 53532 METHODS AND EXPERIENCES IN NUTRITION OUTREACH 3 Credit Hours**

(Slashed with NUTR 43532) Students learn methods for development and evaluation techniques used for nutrition outreach programming; the role of community nutrition education in public health; and the impact of nutrition programming on disease prevention and management. Students engage in service learning opportunities in community nutrition education.

**Prerequisite:** Nutrition major; and graduate standing; and special approval.

**Schedule Type:** Field Experience, Lecture

**Contact Hours:** 2.5 lecture, .5 other

**Grade Mode:** Standard Letter

**NUTR 61018 TECHNIQUES OF RESEARCH IN FAMILY AND CONSUMER STUDIES 3 Credit Hours**

Introduction to the types of research and methods of data collection that are applied to a project of the student's choice.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**NUTR 61098 RESEARCH 1-15 Credit Hours**

(Repeatable for credit) Research for master's-level students. Credit earned may be applied toward meeting degree requirements with school approval.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Research

**Contact Hours:** 1-15 other

**Grade Mode:** Standard Letter-IP

**NUTR 61198 MASTER'S PROJECT 2-6 Credit Hours**

(Repeatable for credit) Completion and successful defense of a master's project. Master's project students must register for a total of 6 hours, 2 to 6 hours in a single semester distributed over several semesters if desired.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Master's Project

**Contact Hours:** 2-6 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**NUTR 63199 THESIS I 2-6 Credit Hours**

Thesis students must register for a total of 6 hours, 2 to 6 hours in a single semester distributed over several semesters if desired.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Masters Thesis

**Contact Hours:** 2-6 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**NUTR 63299 THESIS II 2 Credit Hours**

Students must continue registration each semester until all degree requirements are met.

**Prerequisite:** NUTR 63199; and graduate standing.

**Schedule Type:** Masters Thesis

**Contact Hours:** 2 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**NUTR 63519 ADVANCED STUDY OF MICRONUTRIENTS 3 Credit Hours**

Course covers intake, digestion and absorption of nutrients.

**Prerequisite:** Nutrition major; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**NUTR 63520 MACRONUTRIENT NUTRITION 3 Credit Hours**

Course covers metabolic utilization of macronutrients for body processes.

**Prerequisite:** Nutrition major; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**NUTR 63521 NUTRITION AND DISEASE: CLINICAL APPLICATIONS 3 Credit Hours**

Recent trends and concepts in research and practice of therapeutic dietetics.

**Prerequisite:** Nutrition major; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**NUTR 63524 PERSPECTIVE ON PREVENTION AND PRACTICE IN COMMUNITY NUTRITION 3 Credit Hours**

Explores the relationship between nutritional epidemiology and the research, policies and programs for the successful treatment and prevention of nutrition related disease in the United States. Focuses on the behavioral and learning theories used in successful nutrition interventions and grant writing to sustain community programs.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**NUTR 63525 DIETETIC PRACTICE: COMMUNITY 1 Credit Hour**

Discussion focusing on nutrition care in the community setting. Evaluation and interpretation of the scientific literature.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 1 lecture

**Grade Mode:** Standard Letter

**NUTR 63526 DIETETIC PRACTICE: MANAGEMENT 1 Credit Hour**

Discussion focusing on the management of food and nutrition services. Evaluation and interpretation of the scientific literature.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 1 lecture

**Grade Mode:** Standard Letter

**NUTR 63527 DIETETIC PRACTICE: CLINICAL 1 Credit Hour**

Discussion focusing on nutrition care in the acute practice setting. Evaluation and interpretation of the scientific literature.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 1 lecture

**Grade Mode:** Standard Letter

**NUTR 63591 NUTRITION SEMINAR 1-3 Credit Hours**

(Repeatable for credit) Evaluation and interpretation of recent literature in an area of nutrition. Topic varies per course offering.

**Prerequisite:** Graduate standing.

**Schedule Type:** Seminar

**Contact Hours:** 1-3 other

**Grade Mode:** Standard Letter

**NUTR 63592 DIETETIC INTERNSHIP 1-4 Credit Hours**  
(Repeatable for credit) Supervised practice component of dietetic internship.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Practical Experience

**Contact Hours:** 12-48 other

**Grade Mode:** Satisfactory/Unsatisfactory

## Speech Pathology and Audiology (SPA)

**SPA 10002 INTRODUCTION TO COMMUNICATION DISORDERS AND DIFFERENCES 3 Credit Hours**

An introduction to communication disorders and differences using a) case studies via film and video review and critique, b) lecture, and c) class discussions. Covers speech, language, swallowing and hearing disorders and cultural and linguistic differences in communication.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPA 33101 HEARING AND SPEECH SCIENCE 3 Credit Hours**

Acoustics, psychoacoustics, and acoustics of speech production and perception.

**Prerequisite:** Admittance into the SPA professional phase (minimum 3.000 overall GPA at 60 credits).

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPA 34102 APPLIED PHONETICS 3 Credit Hours**

Basic principles of speech production and phonetic transcriptions of English with the international phonetic alphabet; emphasis on general American dialect.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPA 34103 ANATOMY AND PHYSIOLOGY OF SPEECH AND HEARING 3 Credit Hours**

Functional anatomy and physiology of the respiratory, phonatory, articulatory, neural, and auditory systems as they are used with normal and abnormal speech and hearing.

**Prerequisite:** SPA 34104.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPA 34104 SPEECH AND LANGUAGE ACQUISITION 3 Credit Hours**

Normal development and linguistic analysis of language systems including phonology, morphology, syntax, semantics, and pragmatics.

**Pre/corequisite:** SPA 34102.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPA 34105 PHONEMIC BASES OF SPEECH AND LANGUAGE 3 Credit Hours**

Fundamental processes related to production and perception of spoken language, with parallels to writing and reading particular application to normal and hearing impaired children and adolescents. For nonmajors only.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPA 34106 ARTICULATORY AND PHONOLOGICAL DISORDERS 3 Credit Hours**

Assessment and remediation of disorders of articulation and phonology.

**Prerequisite:** Admittance into the speech pathology and audiology professional phase (minimum 3.000 overall GPA at 60 credits); and SPA 34102 and SPA 34104.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPA 34107 LANGUAGE DISORDERS IN CHILDREN AND ADOLESCENTS 3 Credit Hours**

Introduction to assessment and intervention procedures associated with language disorders in children and adolescents.

**Prerequisite:** SPA 34104.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPA 34210 SPEECH AND LANGUAGE DEVELOPMENT 3 Credit Hours**

Normal development and linguistic analysis of language systems including phonology, morphology, syntax, semantics, and pragmatics. This course is for non-speech pathology and audiology majors.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPA 43402 AUDIOMETRY 3 Credit Hours**

(Slashed with SPA 53402) Measurement of human hearing by pure-tone and speech audiometry; evaluation of middle ear function by immittance audiometry; screening techniques; pathologies of the conductive and sensorineural systems.

**Prerequisite:** Admittance into the speech pathology and audiology professional phase (minimum 3.000 overall GPA at 60 credits); and SPA 33101.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPA 43403 CLINICAL PREPARATION IN AUDIOLOGY (ELR) 2 Credit Hours**

Exercises and practical experiences in audiometric procedures, test interpretation, counseling and management of the hearing impaired.

**Prerequisite:** Admittance into the speech pathology and audiology professional phase (minimum 3.000 overall GPA at 60 hours); and special approval.

**Corequisite:** SPA 43402.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**Attributes:** Experiential Learning Requirement

**SPA 43404 AURAL REHABILITATION 3 Credit Hours**

Basic principles, variables and techniques for understanding, evaluating and improving receptive communication of hearing impaired individuals.

**Prerequisite:** Admittance into the speech pathology and audiology professional phase (minimum 3.000 overall GPA at 60 credits); and SPA 33101 and 34102 and 43402 (speech pathology and audiology majors) or 43600 (Education of Hearing Impaired majors).

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPA 43600 FUNDAMENTALS OF EDUCATIONAL AUDIOLOGY 3 Credit Hours**

Auditory development and function/dysfunction; auditory assessment and family counseling; selection and fitting of personal and classroom amplification; care and maintenance of amplification systems; collaboration of professionals in audiology and education; communication approaches according to varying levels of hearing loss; classroom environments conducive to auditory and academic learning.

**Prerequisite:** Junior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPA 44010 SOCIAL COMMUNICATION DEVELOPMENT AND DISORDERS IN AUTISM SPECTRUM DISORDERS 3 Credit Hours**

Provides an understanding of the social, communication, and language needs of those with ASD from childhood through adulthood. Examines the cognitive, neurological, social, and environmental components influencing social, communicative functioning. Reviews contemporary assessment and intervention strategies. Explores the use of assistive technology to enhance social communicative functioning in those with ASD.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPA 44020 MEDICAL ASPECTS OF AUTISM SPECTRUM DISORDERS 3 Credit Hours**

(Cross-listed with SPED 44020) Description of medical issues facing individuals with autism spectrum disorders (ASD) and their families. Examination of etiology, co-occurring disabilities and disorders, and treatment options in relation to individuals with ASD.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPA 44030 AUTISM SPECTRUM DISORDERS OVER THE LIFESPAN 3 Credit Hours**

Provides students with a review of the significant aspects related to educational, social, vocational transitions for children, adolescents, and young adults with ASD. Students learning skills necessary to evaluate and develop programs designed to meet the changing and long term needs of those with ASD.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPA 44089 VARIABLE TOPIC INTERNATIONAL EXPERIENCE IN SPEECH PATHOLOGY AND AUDIOLOGY (ELR) 1-4 Credit Hours**

(Slashed with SPA 54089 and SPA 74089) A faculty-led study abroad experience that integrates traditional classroom learning with experiential activities and site visits outside the United States. International experience courses may have pre- and post-travel classroom study. Course activities may include, but are not limited to, classroom study, research, field work, internships and service learning.

**Prerequisite:** None.

**Schedule Type:** International Experience

**Contact Hours:** 1-4 other

**Grade Mode:** Standard Letter-IP

**Attributes:** Experiential Learning Requirement

**SPA 44096 INDEPENDENT STUDY:SPEECH PATHOLOGY AND AUDIOLOGY 2-6 Credit Hours**

(Repeatable for credit) Readings and/or research on problems approved by chairman of department in consultation with student's adviser and project director.

**Prerequisite:** Speech pathology and audiology major; and graduate standing; and special approval.

**Schedule Type:** Individual Investigation

**Contact Hours:** 2-6 other

**Grade Mode:** Standard Letter-IP

**SPA 44110 SPEECH SCIENCE 3 Credit Hours**

Consideration of physiological and acoustic characteristics of normal speech production and perception with implications for speech and hearing disorders.

**Prerequisite:** Admittance into the speech pathology and audiology professional phase (minimum 3.000 overall GPA at 60 credits); and SPA 34102 and SPA 34106.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPA 44111 NEURAL PROCESSES 3 Credit Hours**

(Slashed with SPA 54111) Anatomy and physiology of the nervous system underlying human neuromotor movements. Topics include: definition and fundamental concepts, afferent and efferent systems, cortical anatomy and function, cranial nerves, theories of brain function, and neural maturation and learning.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPA 44112 AGE-RELATED CHANGES IN COMMUNICATION 3 Credit Hours**

Nonpathological age-related changes in speech, language and voice. Topics include structural changes in orofacial, laryngeal and respiratory mechanism; sequelae for speech, language and voice in the elderly; effects of age on swallowing; facilitating conversational interactions with elderly individuals.

**Prerequisite:** Admittance into the speech pathology and audiology professional phase (minimum 3.000 overall GPA at 60 credits).

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPA 44130 COMMUNICATION DISORDERS OF THE AGING 2 Credit Hours**

Hearing, speech and language disorders in geriatric population. Symptoms, causes and treatment: normal changes in hearing, language and speech accompanying aging process.

**Prerequisite:** Senior standing.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**SPA 44310 CLINICAL PROCEDURES IN SPEECH PATHOLOGY 3 Credit Hours**

This course addresses evaluation and intervention procedures in the field of speech-language pathology across the lifespan.

**Prerequisite:** Admittance into the admittance into the speech pathology and audiology professional phase (minimum 3.000 overall GPA at 60 credits) professional phase (minimum 3.000 overall GPA at 60 credits); and Senior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPA 44311 CLINICAL PREPARATION IN SPEECH-LANGUAGE PATHOLOGY (ELR) (WIC) 2 Credit Hours**

The course covers evaluation and intervention methodology for individuals with communication disorders and essential professional written communication skills.

**Prerequisite:** Admittance into the speech pathology and audiology professional phase (3.000 overall GPA at 60 hours).

**Corequisite:** SPA 44310.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**Attributes:** Experiential Learning Requirement, Writing Intensive Course

**SPA 53402 AUDIOMETRY 3 Credit Hours**

(Slashed with SPA 43402) Measurement of human hearing by puretone and speech audiometry# evaluation of middle ear function by immittance audiometry# screening techniques# pathologies of the conductive and sensorineural systems.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPA 53404 AURAL REHABILITATION 3 Credit Hours**

Basic principles, variables and techniques for understanding, evaluating and improving receptive communication of hearing impaired individuals.

**Prerequisite:** Education of hearing impaired majors: SPA 43600; speech pathology and audiology majors: SPA 33101 and SPA 34102 and SPA 43402; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPA 54010 SOCIAL COMMUNICATION DEVELOPMENT AND DISORDERS IN AUTISM SPECTRUM DISORDERS 3 Credit Hours**

Provides an understanding of the social, communication, and language needs of those with ASD from childhood through adulthood. Examines the cognitive, neurological, social, and environmental components influencing social, communicative functioning. Reviews contemporary assessment and intervention strategies. Explores the use of assistive technology to enhance social communicative functioning in those with ASD.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPA 54089 VARIABLE TOPIC INTERNATIONAL EXPERIENCE IN SPEECH PATHOLOGY AND AUDIOLOGY 1-4 Credit Hours**

(Repeatable for credit) (Slashed with SPA 44089 and SPA 74089) A faculty-led study abroad experience that integrates traditional classroom learning with experiential activities and site visits outside the United States. International experience courses may have pre- and post-travel classroom study. Course activities may include, but are not limited to, classroom study, research, field work, internships and service learning.

**Prerequisite:** Graduate standing.

**Schedule Type:** International Experience

**Contact Hours:** 1-4 other

**Grade Mode:** Standard Letter-IP

**SPA 54096 INDEPENDENT STUDY:SPEECH PATHOLOGY AND AUDIOLOGY 2-6 Credit Hours**

(Repeatable for credit) Readings and/or research on problems approved by chair of department in consultation with student's adviser and project director.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Individual Investigation

**Contact Hours:** 2-6 other

**Grade Mode:** Standard Letter

**SPA 54110 SPEECH SCIENCE 3 Credit Hours**

Consideration of physiological and acoustic characteristics of normal speech production and perception with implications for speech and hearing disorders.

**Prerequisite:** SPA 34102 and 34106; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPA 54111 NEURAL PROCESSES IN SPEECH AND LANGUAGE 3 Credit Hours**

Anatomy and physiology of the nervous system underlying speech and language. Topics include: definition and fundamental concepts, afferent and efferent systems, cortical anatomy and function, cranial nerves, theories of brain function and neural maturation and learning.

**Prerequisite:** SPA 34103 or special approval of the instructor; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPA 54112 AGE-RELATED CHANGES IN COMMUNICATION 3 Credit Hours**

Nonpathological age-related changes in speech, language and voice. Topics include: structural changes in orofacial, laryngeal and respiratory mechanisms; sequelae for speech, language and voice in the elderly; effects of age on swallowing; facilitating conversational interactions with elderly individuals.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPA 54130 COMMUNICATION DISORDERS OF THE AGING 2 Credit Hours**

Hearing, speech and language disorders in geriatric population. Symptoms, causes and treatment: normal changes in hearing, language and speech accompanying aging process.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**SPA 63691 SEMINAR IN AUDIOLOGY 3 Credit Hours**

(Repeatable for a maximum of 12 credit hours) Research, readings and discussion in any of these areas: aural rehabilitation, amplification, psychoacoustics, auditory physiology, medical audiology, hearing conservation.

**Prerequisite:** Graduate standing.

**Schedule Type:** Seminar

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**SPA 64091 SEMINAR IN COMMUNICATION DISORDERS 1-3 Credit Hours**

(Repeatable for a maximum of 9 credit hours) Special topics seminar for advanced students in speech-language pathology and audiology. Presentations and discussion of research projects are required.

**Prerequisite:** Graduate standing.

**Schedule Type:** Seminar

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter-S/U-IP

**SPA 64093 WORKSHOP IN COMMUNICATION DISORDERS 1-3 Credit Hours**

(Repeatable for credit) Variable topic workshop offered when need arises, either on or off campus to update training in a particular area of speech pathology.

**Prerequisite:** Graduate standing.

**Schedule Type:** Workshop

**Contact Hours:** 1-3 other

**Grade Mode:** Satisfactory/Unsatisfactory

**SPA 64096 INDIVIDUAL INVESTIGATION:SPEECH PATHOLOGY AND AUDIOLOGY 1-6 Credit Hours**

(Repeatable for a maximum of 12 credit hours) Independent study of topics to be selected in consultation with graduate faculty.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Individual Investigation

**Contact Hours:** 1-6 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**SPA 64098 RESEARCH 1-15 Credit Hours**

(Repeatable for credit) Research or individual investigation for master's level graduate students.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Research

**Contact Hours:** 1-15 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**SPA 64191 SEMINAR:NEUROGENIC COMMUNICATION DISORDERS 1-3 Credit Hours**

(Repeatable for a maximum of 9 credit hours) Reading and discussion seminar on swallowing disorders and the communication disorders relating to aphasia, apraxia, dysarthria, closed head injury, right brain damage and dementia.

**Prerequisite:** SPA 64301; and graduate standing.

**Schedule Type:** Seminar

**Contact Hours:** 1-3 other

**Grade Mode:** Standard Letter-S/U-IP

**SPA 64199 THESIS I 2-6 Credit Hours**

Thesis students must register for a total of 6 hours, 2 to 6 hours in a single semester distributed over several semesters if desired.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Masters Thesis

**Contact Hours:** 2-6 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**SPA 64291 SEMINAR:CHILD LANGUAGE 1-3 Credit Hours**

(Repeatable for a maximum of 9 credit hours) Topics are selected for class investigation from the areas of child language development or disorders.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Seminar

**Contact Hours:** 1-3 other

**Grade Mode:** Standard Letter-S/U-IP

**SPA 64299 THESIS II 2 Credit Hours**

Thesis students must continue registration each semester until all degree requirements are met.

**Prerequisite:** SPA 64199; and graduate standing; and special approval.

**Schedule Type:** Masters Thesis

**Contact Hours:** 2 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**SPA 64301 APHASIA 3 Credit Hours**

Neuroanatomy, etiologies, symptomatologies, evaluation procedures and treatment techniques relating to aphasia in adults.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPA 64302 LANGUAGE ASSESSMENT AND INTERVENTION IN EARLY CHILDHOOD 3 Credit Hours**

Methods of language assessment and intervention for infants, toddlers and preschoolers who are either at risk or diagnosed as presenting language delays or disabilities.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter



**SPA 64303 DISORDERS OF ARTICULATION AND PHONOLOGY 3****Credit Hours**

Diagnosis and remediation of children's articulation and phonological disorders.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPA 64304 ACQUIRED COGNITIVE COMMUNICATIVE IMPAIRMENTS 3 Credit Hours**

Cognitive functions and etiologies, symptomologies, evaluation and treatment methods related to adults with cognitive communicative disorders subsequent to right hemisphere damage, traumatic brain injury, dementia and related impairments.

**Prerequisite:** Speech language pathology major; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPA 64305 FLUENCY DISORDERS 3 Credit Hours**

Nature, theories and their derived therapeutic approaches to the treatment of fluency disorders.

**Prerequisite:** Speech language pathology major; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPA 64306 VOICE DISORDERS 2 Credit Hours**

Normal aspects of voice production, etiology and symptomatology of voice disorders, diagnostic procedures and management techniques.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**SPA 64307 DYSARTHRIA 1 Credit Hour**

Neuro-anatomy, etiologies, symptomologies, evaluation procedures and treatment techniques relating to dysarthria in adults.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 1 lecture

**Grade Mode:** Standard Letter

**SPA 64308 LANGUAGE ASSESSMENT AND INTERVENTION WITH SCHOOL-AGE POPULATIONS 3 Credit Hours**

Theoretical background knowledge and practical assessment and intervention techniques for school-age children who demonstrate language disorders.

**Prerequisite:** SPA 34107; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPA 64309 AUTISM SPECTRUM DISORDERS: THEORY AND DIAGNOSIS 3 Credit Hours**

(Cross-listed with SPA 74309 and SPED 64309) (Slashed with SPED 44309) Provides an overview of autism spectrum disorders (ASD). Examines the history, characteristics, and prevalence of ASD. The different theoretical models for understanding ASD are explored as they relate to assessment and intervention.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPA 64310 AUTISM SPECTRUM DISORDERS: LIFESPAN INTERVENTIONS 3 Credit Hours**

(Cross-listed with SPED 64310) (Slashed with SPA 74310) Provides students with a review of the significant aspects related to educational, social, vocational transitions for children, adolescents, and young adults with autism spectrum disorders (ASD). Students learn skills necessary to evaluate and develop programs designed to meet the changing and long term needs of individuals with ASD.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPA 64311 AUTISM SPECTRUM DISORDERS 2 Credit Hours**

Provides an overview of the social, communication, and language needs of those with autism spectrum disorder. Reviews contemporary assessment and intervention strategies. This course is designed to prepare preservice speech language pathologists with foundational information about autism spectrum disorders.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**SPA 64312 MOTOR SPEECH DISORDERS IN CHILDREN AND ADULTS 3 Credit Hours**

(Slashed with SPA 74312) Anatomic and physiologic bases of congenital and acquired motor speech disorders. Etiology, symptomatology, evaluation and treatment techniques related to variety of motor speech disorders in children and adults.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPA 64354 PEDIATRIC MEDICAL ISSUES 2 Credit Hours**

Nature and rehabilitative procedures for speech-language pathology practice with pediatric medical issues, including dysphagia, maxillofacial anomalies, and resonance disorders.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**SPA 64356 ADULT DYSPHAGIA 3 Credit Hours**

(Slashed with SPA 74356) Anatomy, etiologies, symptomologies, evaluation procedures and treatment techniques relating to swallowing disorders in adults.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPA 64391 SEMINAR: SEMINAR: ARTICULATION AND PHONOLOGY 1-3 Credit Hours**

(Repeatable for a maximum of 9 credit hours) Critical review and application of systems and methods for assessment and remediation of articulation and phonological disorders.

**Prerequisite:** Graduate standing.

**Schedule Type:** Seminar

**Contact Hours:** 1-3 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**SPA 64491 SEMINAR:ORGANIC SPEECH DISORDERS 1-3 Credit Hours**

(Repeatable for credit)A revolving topics seminar on theoretical and/or clinical issues related to neurogenic/organic speech and/or language disorders.

**Prerequisite:** Graduate standing.

**Schedule Type:** Seminar

**Contact Hours:** 1-3 other

**Grade Mode:** Standard Letter-S/U-IP

**SPA 64492 CLINICAL PRACTICE IN SPEECH PATHOLOGY AND AUDIOLOGY 1-12 Credit Hours**

(Repeatable for credit) Supervised clinical practice with patients who have speech, hearing or language problems.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Practical Experience

**Contact Hours:** 1-12 other

**Grade Mode:** Standard Letter-IP

**SPA 64500 NORMAL LANGUAGE PROCESSES 3 Credit Hours**

Examines current theory and research specific to normal human development from birth to age 21. Significant neurological, cognitive, social, linguistic, emotional, literacy, and motor developmental changes are explored.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPA 64501 SOCIAL COMMUNICATION ASPECTS OF AUTISM SPECTRUM DISORDER 3 Credit Hours**

(Slashed with SPA 74501) Provides an understanding of the social, communication, and language needs of those with ASD from childhood through adulthood. Examines the cognitive, neurological, social, and environmental components influencing social, communicative functioning. Reviews contemporary assessment and intervention strategies. Explores use of assistive technology to enhance social communicative functioning in those with ASD.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPA 64504 ADVANCED SPEECH AND VOICE SCIENCE 3 Credit Hours**

Application of normal and disordered speech, swallowing, and voice production and perception; survey of literature; theories of production and perception.

**Prerequisite:** SPA 54110; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPA 64525 PUBLIC SCHOOL TECHNIQUES IN COMMUNICATION DISORDERS:INQUIRY INTO PROFESSIONAL PRACTICE 3 Credit Hours**

Inquiry into speech pathology and audiology as practiced in the school setting; emphasis on speech language pathologist or audiologist as disciplined investigator. Combination of themes including organizational procedures, therapy techniques, collaboration, ethics and research.

**Prerequisite:** Graduate standing; and special approval.

**Corequisite:** SPA 64528.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPA 64528 STUDENT TEACHING IN SPEECH-LANGUAGE PATHOLOGY AND AUDIOLOGY 8 Credit Hours**

Inquiry into speech pathology and audiology as practiced in the school setting; emphasis on speech language pathologist or audiologist as disciplined investigator. Combination of themes including organization, procedures, therapy techniques, collaboration, ethics and research. Students are required to complete Bureau of Criminal Investigation and Identification (BCII) and Federal Bureau of Investigation (FBI) background checks and submit the results to authorized personnel at their assigned 'school/agency' before the first day of the semester in which student teaching/ internship will take place. Training must be presented to the campus office of clinical experience or designated faculty/staff at college of applied and technical studies' campuses as prerequisite for student teaching; and special approval.

**Prerequisite:** Official valid certification of child safety training, approved basic life support and ALICE.

**Corequisite:** SPA 64525.

**Schedule Type:** Practical Experience

**Contact Hours:** 40 other

**Grade Mode:** Satisfactory/Unsatisfactory

**SPA 64591 SEMINAR:FLUENCY DISORDERS 1-3 Credit Hours**

(Repeatable for a maximum 9 credit hours)Seminar dealing with the theoretical and applied aspects of fluency disorders in children and adults.

**Prerequisite:** Graduate standing.

**Schedule Type:** Seminar

**Contact Hours:** 1-3 other

**Grade Mode:** Standard Letter-S/U-IP

**SPA 64600 RESEARCH METHODS IN SPEECH-LANGUAGE PATHOLOGY AND AUDIOLOGY 3 Credit Hours**

Methodologies for collecting, analyzing and interpreting data for clinical and research purposes in speech language pathology and audiology.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPA 64691 SEMINAR:VOICE DISORDERS 1-3 Credit Hours**

(Repeatable for a maximum of 9 credit hours) Current literature review and discussions dealing with varying topics ranging from normal aspects of phonation in various populations to disorders of voice and their diagnosis and treatment.

**Prerequisite:** SPA 6/74306; and graduate standing.

**Schedule Type:** Seminar

**Contact Hours:** 1-3 other

**Grade Mode:** Standard Letter-S/U-IP

**SPA 64791 SEMINAR:SPEECH SCIENCE 1-3 Credit Hours**

(Repeatable for a maximum of 9 credit hours)Consideration of selected topics related to physiological, anatomical and acoustic aspects of speech production and perception.

**Prerequisite:** SPA 4/54110 and SPA 6/74504; graduate standing.

**Schedule Type:** Seminar

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter-S/U-IP

**SPA 64891 SEMINAR:COMMUNICATION MODALITIES AND ASSISTIVE TECHNOLOGY 3 Credit Hours**

(Repeatable for credit) Nature, etiologies and correlates of speech/language communication disorders and differences that may indicate a need for a multi-modal communication approach. Includes an emphasis on assistive technology for communication, language, learning and literacy.

**Prerequisite:** SPA 64500 and SPA 64302; and graduate standing.

**Schedule Type:** Seminar

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**SPA 64991 SEMINAR:CRITICAL TOPICS IN SPEECH LANGUAGE 1-3 Credit Hours**

(Repeatable for credit) Principles and methods of assessment and intervention for various topics in speech-language pathology from critical thinking and case-study framework.

**Prerequisite:** Speech pathology and audiology major only; and graduate standing; and instructor special approval.

**Schedule Type:** Seminar

**Contact Hours:** 1-3 other

**Grade Mode:** Standard Letter-S/U-IP

**SPA 65092 CLINICAL PRACTICUM I IN SPEECH LANGUAGE PATHOLOGY 2-3 Credit Hours**

(Slashed with SPA 75092) (Repeatable twice for credit) Supervised, introductory clinical experience in assessment and intervention with populations within the Scope of Practice of speech language pathology per the current practice policy of the American Speech Language Hearing Association. To facilitate clinical competency and accrual of required clinical clock hours per current ASHA standards, students are expected to enroll in Clinical Practicum each semester that they are not enrolled in Externship or Student Teaching. A grade of B or better in this course is required for permission to register in SPA 65192.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Practical Experience

**Contact Hours:** 8-12 other

**Grade Mode:** Standard Letter-IP

**SPA 65192 CLINICAL PRACTICUM II IN SPEECH AND LANGUAGE PATHOLOGY 2-3 Credit Hours**

(Slashed with SPA 75192) (Repeatable twice for credit) This course includes additional supervised, hands on clinical experience with clients in on campus clinics. Student clinicians are provided with opportunities to demonstrate increased independence in clinical decision making and performance. Practicum requirements may include attendance at a weekly Clinical Colloquium. A grade of B or better in this course is required for registration in SPA 65292.

**Prerequisite:** SPA 65092 with a minimum C grade; and graduate standing; and special approval.

**Schedule Type:** Practical Experience

**Contact Hours:** 8-12 other

**Grade Mode:** Standard Letter-IP

**SPA 65292 CLINICAL PRACTICUM III IN SPEECH LANGUAGE PATHOLOGY 2-3 Credit Hours**

(Slashed with SPA 75292) (Repeatable twice for credit) Includes additional supervised, hands on clinical experience with clients in on campus clinics and or off-campus, supervised clinical experience in sites such as schools or long term care facilities. Students clinicians are provided with opportunities to demonstrate levels of independence in clinical decision making and performance that reflect readiness for Externship or Student Teaching experiences. Practicum requirements may include attendance at a weekly Clinical Colloquium. A grade of B or better in this course is required for permission to register in the following courses: Clinical Practicum IV in Speech Language Pathology SPA 65392, Externship in Speech Language Pathology: Adult SPA 65492, Externship in Speech Language Pathology: Pediatric SPA 65592, Student Teaching in Speech Language Pathology SPA 64528.

**Prerequisite:** SPA 65192 with a minimum B grade; and graduate standing; and special approval.

**Schedule Type:** Practical Experience

**Contact Hours:** 8-12 other

**Grade Mode:** Standard Letter-IP

**SPA 65392 CLINICAL PRACTICUM IV IN SPEECH LANGUAGE PATHOLOGY 2-3 Credit Hours**

(Slashed with SPA 75392) (Repeatable twice for credit) This supervised, hands on clinical experience with clients in on campus clinics or off campus sites is for second year graduate students who are not yet scheduled for externship or student teaching. Students clinicians are provided with opportunities to demonstrate levels of independence in clinical decision making and performance that are reflective of readiness for externship or student teaching experiences. A grade of B or better in this course is required for permission to register in the following courses: Externship in speech language pathology: adult SPA 65492, externship in speech language pathology: pediatric SPA 65592, student teaching in speech language pathology SPA 64528.

**Prerequisite:** SPA 65292 with a minimum B grade; and graduate standing; and special approval.

**Schedule Type:** Practical Experience

**Contact Hours:** 8-12 other

**Grade Mode:** Standard Letter-IP

**SPA 65492 EXTERNSHIP IN SPEECH LANGUAGE PATHOLOGY: ADULT 4-8 Credit Hours**

(Slashed with SPA 75492) (Repeatable once for credit) Considered a culminating clinical experience. Includes supervised, hands-on clinical experience with patients in adult care settings such as hospitals, rehabilitation and long term care facilities.

**Prerequisite:** SPA 65292 or SPA 65392 with a minimum B grade; and graduate standing; and permission.

**Schedule Type:** Practical Experience

**Contact Hours:** 20-40 other

**Grade Mode:** Standard Letter-IP

**SPA 65592 EXTERNSHIP IN SPEECH LANGUAGE PATHOLOGY: PEDIATRIC 4-8 Credit Hours**

(Slashed with SPA 75592) (Repeatable once for credit) Considered a culminating clinical experience. Students may choose this course as an alternative to student teaching in speech-language pathology. Includes supervised, hands-on clinical experience with children and adolescents in pediatric care settings such as hospitals and other habilitation and rehabilitation facilities.

**Prerequisite:** SPA 65292 or SPA 65392 with a minimum B grade; and graduate standing; and special approval.

**Schedule Type:** Practical Experience

**Contact Hours:** 20-40 other

**Grade Mode:** Standard Letter-IP

**SPA 70615 CENTRAL AUDITORY PROCESSING EVALUATION AND MANAGEMENT 2 Credit Hours**

Study of audiologic evaluation and (re)habilitation procedures for people central auditory processing disorders.

**Prerequisite:** SPA 70705 and SPA 70706; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**SPA 70616 HEARING AID FITTING AND SELECTION ACROSS THE LIFESPAN 4 Credit Hours**

Examination of the theory and practice of fitting hearing aids across the lifespan. Emphasis on special clinical procedures, research needs and evolving technology in hearing instruments.

**Prerequisite:** Admission to the audiology major; and SPA 70713; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 4 lecture

**Grade Mode:** Standard Letter

**SPA 70618 IMPLANTABLE TECHNOLOGY 4 Credit Hours**

Study of implantable devices in children and adults including equipment, candidacy, programming, fitting, and troubleshooting.

**Prerequisite:** Admission to the audiology major; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 4 lecture

**Grade Mode:** Standard Letter

**SPA 70627 MULTICULTURAL ISSUES IN AUDIOLOGY 2 Credit Hours**

An introduction to varying cultures and the audiologist's roles and responsibilities in planning treatment with a member of these cultures.

**Prerequisite:** Admission to the audiology major; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**SPA 70630 PRACTICE MANAGEMENT IN AUDIOLOGY 3 Credit Hours**

Study of issues which impact the management of audiological practices, including establishing a private practice, reimbursement, marketing, record keeping and professional liability.

**Prerequisite:** Admission to the audiology major; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPA 70691 SEMINAR IN AUDIOLOGY 2 Credit Hours**

(Repeatable for credit) Selected current topics in audiology with emphasis on review of current literature.

**Prerequisite:** Admission to the AUD program or special approval of the instructor; and doctoral standing.

**Schedule Type:** Seminar

**Contact Hours:** 2 other

**Grade Mode:** Standard Letter

**SPA 70692 INTERNSHIP IN AUDIOLOGY 2 Credit Hours**

(Repeatable for credit) Supervised practicum in audiology requiring the independent performance of basic audiologic procedures, including hearing aid management.

**Prerequisite:** SPA 70744; and doctoral standing; and special approval.

**Schedule Type:** Practical Experience

**Contact Hours:** 18 other

**Grade Mode:** Standard Letter

**SPA 70701 BASIC AND APPLIED PHYSICAL ACOUSTICS FOR AUDIOLOGY 4 Credit Hours**

Study of physical acoustics, basic electricity and electronics, as well as principles, methodology, calibration and maintenance of audiologic equipment.

**Prerequisite:** Admission to the AUD program or special approval of instructor; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 4 lecture

**Grade Mode:** Standard Letter

**SPA 70702 ANATOMY AND PHYSIOLOGY OF PERIPHERAL AUDITORY AND VESTIBULAR SYSTEMS 3 Credit Hours**

A study of the anatomy, biophysics and physiology of the auditory and vestibular systems.

**Prerequisite:** Admission to the AUD program or special approval of instructor; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPA 70703 ACOUSTIC PHONETICS 3 Credit Hours**

Study of the acoustics, measurement and nomenclature of speech sounds and theoretical and acoustic bases of speech perception (includes 1 hour lab).

**Prerequisite:** Admission to the AUD program; and doctoral standing.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**SPA 70704 CRITICAL ANALYSIS OF RESEARCH IN AUDIOLOGY 2 Credit Hours**

General introduction to the research process with an emphasis on acquiring a reading knowledge of research and an ability to evaluate research.

**Prerequisite:** Admission to the AUD program; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**SPA 70705 AUDITORY DISORDERS 2 Credit Hours**

Study of conditions/diseases that can affect the auditory system.

**Prerequisite:** Admission to the AUD program; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter



**SPA 70706 ANATOMY AND PHYSIOLOGY UNDERLYING NEURO-OTOLOGY 4 Credit Hours**

An in-depth study of the anatomy and physiology of the central auditory and vestibular nervous system (includes 1 hour lab.)

**Prerequisite:** SPA 70702; and doctoral standing.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 4 other

**Grade Mode:** Standard Letter

**SPA 70707 PSYCHOACOUSTICS 3 Credit Hours**

Study of the principles, procedures and research of psychoacoustics; the relationships between the physical dimensions of auditory stimuli and the resultant perceptual experience with normal and impaired hearing.

**Prerequisite:** Admission to the AUD program; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPA 70708 CRITICAL ANALYSIS OF RESEARCH 2 Credit Hours**

Development of a reading knowledge of research and the ability to evaluate the quality of research studies.

**Prerequisite:** SPA 70704; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**SPA 70709 AUDIOLOGIC ASSESSMENT 3 Credit Hours**

Theoretical basis for tests underlying basic audiologic assessments.

**Prerequisite:** Admission to the AUD program; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPA 70710 INDUSTRY AND COMMUNITY NOISE 3 Credit Hours**

Theoretical principles of noise measurement; etiology of noise-induced hearing loss and acoustic trauma; industrial hearing conservation programs; occupational safety and health act; community and recreational noise evaluation and management.

**Prerequisite:** Admission to the AUD program; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPA 70711 SPEECH-LANGUAGE PATHOLOGY FOR THE AUDIOLOGIST 3 Credit Hours**

Examination of normal and abnormal aspects of speech and language including their impact on auditory function and testing.

**Prerequisite:** Admission to the AUD program; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPA 70712 DIAGNOSIS OF AUDITORY DISORDERS 3 Credit Hours**

Underlying theory and principles of administration and interpretation of site-of-lesion tests.

**Prerequisite:** SPA 70709; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPA 70713 HEARING AID TECHNOLOGY 4 Credit Hours**

Study of amplification systems for the hearing impaired.

**Prerequisite:** SPA 70701; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 4 lecture

**Grade Mode:** Standard Letter

**SPA 70714 GERONTOLOGICAL ISSUES IN AUDIOLOGY 3 Credit Hours**

Physiological, psychological and sociological theories of aging with a focus on the etiology, symptomatology, assessment and rehabilitation of older adults with hearing impairments.

**Prerequisite:** Admission to the AUD program; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPA 70715 CENTRAL AUDITORY PROCESSING: EVALUATION AND MANAGEMENT 3 Credit Hours**

Study of audiologic evaluation and habilitation/rehabilitation procedures for people having central auditory disabilities.

**Prerequisite:** SPA 70705 and SPA 70706; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPA 70716 ADULT HEARING-AID FITTING AND SELECTION 3 Credit Hours**

Examination of the theory and practice of fitting hearing aids. Emphasis on special clinical procedures research needs and evolving technology in hearing instruments. Includes a one hour lab.

**Prerequisite:** SPA 70713; and doctoral standing.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**SPA 70717 PEDIATRIC AUDIOLOGY 3 Credit Hours**

Study of audiologic diagnostic and auditory habilitative protocols for the birth to 3 population. Both assessment and management strategies will be emphasized.

**Prerequisite:** SPA 70709; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPA 70718 COCHLEAR IMPLANTS 2 Credit Hours**

Study of cochlear implants in children and adults including equipment, candidacy, mapping and overview of (re)habilitation.

**Prerequisite:** Admission to the AUD program; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**SPA 70719 COUNSELING IN AUDIOLOGY 3 Credit Hours**

Focus on interviewing, counseling and interacting with individuals with hearing impairments their families and significant others.

**Prerequisite:** Admission to the AUD program; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPA 70720 PEDIATRIC AMPLIFICATIONS 3 Credit Hours**

The focus of study is on amplification systems and fitting techniques for the pediatric population.

**Prerequisite:** SPA 70713 and SPA 70716 and SPA 70717; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter



**SPA 70721 EVALUATION AND MANAGEMENT OF BALANCE DISORDERS 3 Credit Hours**

Study of the balance mechanism; differential diagnostic assessment of balance disorders including electronystagmography, posturography and rotational testing; rehabilitation of the balance disordered patient (1 hour lab included.)

**Prerequisite:** Admission to the AUD program or special approval of instructor; and doctoral standing.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**SPA 70722 AUDIOLOGIC MANAGEMENT OF THE SCHOOL-AGE CHILD 3 Credit Hours**

Focus on educational audiology. Features delivery of audiologic services designed to access the school environment for children ages 4-21.

**Prerequisite:** SPA 70717; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPA 70723 AUDIOLOGIC TREATMENT OF ADULTS 3 Credit Hours**

Study of current methodologies employed in the audiologic rehabilitation of adults with hearing impairments. Implementation of remedial strategies is emphasized.

**Prerequisite:** SPA 70716 or doctoral standing; and special approval of instructor.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPA 70724 HISTORY OF AUDIOLOGY 1 Credit Hour**

An examination of the history of deafness/hearing impairment and the profession of audiology.

**Prerequisite:** Admission to the AUD program; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 1 lecture

**Grade Mode:** Standard Letter

**SPA 70725 MEDICAL MANAGEMENT OF AUDITORY DISORDERS 2 Credit Hours**

A study of the multidisciplinary approach to medical/surgical management of patients with auditory and vestibular disorders.

**Prerequisite:** SPA 70712; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**SPA 70726 ELECTROPHYSIOLOGICAL TECHNIQUES IN AUDIOLOGY 3 Credit Hours**

Study of evoked responses used in diagnostic audiology, including ABR, MLR, ECHOCHG, ENOG, ALR, P300, VER, and SSER.

**Prerequisite:** SPA 70706; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPA 70727 CULTURAL ISSUES IN DEAFNESS 2 Credit Hours**

An introduction to deaf culture and the audiologist's roles and responsibilities in planning treatment with a member of the deaf community.

**Prerequisite:** Admission to the AUD program; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**SPA 70730 PRACTICE MANAGEMENT IN AUDIOLOGY 4 Credit Hours**

Study of issues which impact the management of audiological practices, including establishing a private practice, reimbursement, marketing, record keeping and professional liability.

**Prerequisite:** Admission to the AUD program; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 4 lecture

**Grade Mode:** Standard Letter

**SPA 70732 AUDIOLOGIC TREATMENT ACROSS THE LIFESPAN 4 Credit Hours**

Study of current methodologies employed in the audiologic treatment of people with hearing loss across the lifespan. Implementation of remedial strategies is emphasized.

**Prerequisite:** Admission to the audiology major; and SPA 70616; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 4 lecture

**Grade Mode:** Standard Letter

**SPA 70733 ADVANCED ELECTROPHYSIOLOGIC AND VESTIBULAR MEASURES 4 Credit Hours**

Advanced considerations in balance function assessment and management and in the study of evoked responses used in diagnostic audiology.

**Prerequisite:** Admission into the audiology program; and SPA 70726 and SPA 70721; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 4 lecture

**Grade Mode:** Standard Letter

**SPA 70734 PRINCIPLES IN PRECEPTING 1 Credit Hour**

Examination of the concepts and practices essential to the preceptor role. Emphasis on professional standards, adult learning theories, communication styles, ethical principles, and the multiple roles of a preceptor (educator, role model, mentor, facilitator and evaluator).

**Prerequisite:** Admission into the audiology major; and SPA 70748; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 1 lecture

**Grade Mode:** Standard Letter

**SPA 70741 DIRECTED OBSERVATION IN AUDIOLOGY I 1 Credit Hour**

Introduction to clinical practicum in audiology. Directed observation of clinical practice including audiologic diagnosis and audiologic rehabilitation are required.

**Prerequisite:** Admission to the AUD program or special approval of the instructor; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 1 lecture

**Grade Mode:** Standard Letter

**SPA 70742 DIRECTED OBSERVATION IN AUDIOLOGY II 1 Credit Hour**

Introduction to clinical practicum in audiology. Directed observation of clinical practice including audiologic diagnosis and audiologic rehabilitation are required.

**Prerequisite:** Admission to the AUD program; and doctoral standing; and special approval.

**Schedule Type:** Practical Experience

**Contact Hours:** 1 other

**Grade Mode:** Standard Letter

**SPA 70743 CLERKSHIP I 1 Credit Hour**

Clinical practicum in audiology during which students perform discrete tasks under supervision.

**Prerequisite:** Doctoral standing; and special approval of instructor.

**Corequisite:** SPA 70709.

**Schedule Type:** Practical Experience

**Contact Hours:** 1 other

**Grade Mode:** Standard Letter

**SPA 70744 CLERKSHIP II 1 Credit Hour**

Supervised clinical practicum in audiology during which students will perform discrete clinical tasks while under supervision.

**Prerequisite:** SPA 70743; and doctoral standing; and special approval.

**Schedule Type:** Practical Experience

**Contact Hours:** 1 other

**Grade Mode:** Standard Letter

**SPA 70747 GRADUATE AUDIOLOGIST I 3 Credit Hours**

Supervised clinical practicum in audiology which encompasses audiologic assessments and audiologic habilitation.

**Prerequisite:** SPA 70792; and doctoral standing.

**Schedule Type:** Practical Experience

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**SPA 70748 GRADUATE AUDIOLOGIST II 3 Credit Hours**

Supervised clinical practicum in audiology requiring the independent performance of audiologic assessment procedures, audiologic rehabilitation and vestibular assessment and rehabilitation.

**Prerequisite:** SPA 70747; and doctoral standing; and special approval.

**Schedule Type:** Practical Experience

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**SPA 70749 GRADUATE AUDIOLOGIST III 8 Credit Hours**

Full-time clinical practicum in audiology at an off-campus site.

**Prerequisite:** Passing score of 600 or higher on the PRAXIS examination; and SPA 70748; and doctoral standing and special approval.

**Corequisite:** SPA 70791.

**Schedule Type:** Practical Experience

**Contact Hours:** 8 other

**Grade Mode:** Standard Letter

**SPA 70750 GRADUATE AUDIOLOGIST IV 8 Credit Hours**

Full-time clinical practicum in audiology at an off-campus site. Students taking the course must have successfully completed the Praxis Examination.

**Prerequisite:** SPA 70749; and doctoral standing.

**Corequisite:** SPA 70791.

**Schedule Type:** Practical Experience

**Contact Hours:** 8 other

**Grade Mode:** Standard Letter

**SPA 70751 GRADUATE AUDIOLOGIST V 3 Credit Hours**

Full-time clinical practicum in audiology at an off-campus site.

**Prerequisite:** SPA 70750; and doctoral standing.

**Schedule Type:** Practical Experience

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**SPA 70753 LABORATORY FOR ELECTROPHYSIOLOGICAL TECHNIQUES IN AUDIOLOGY 1 Credit Hour**

Laboratory exercises for the assessment of auditory disorders including electrocochleography, the auditory brainstem response and auditory steady state responses.

**Prerequisite:** Audiology major; and doctoral standing.

**Corequisite:** SPA 70726.

**Schedule Type:** Laboratory

**Contact Hours:** 3 lab

**Grade Mode:** Standard Letter

**SPA 70754 LABORATORY FOR EVALUATION AND MANAGEMENT OF BALANCE DISORDERS 1 Credit Hour**

Laboratory exercises for the assessment of balance disorders including videonystagmography, posturography and informal evaluations; approaches for the rehabilitation and treatment of the balance disordered patient.

**Prerequisite:** Audiology major; and doctoral standing.

**Corequisite:** SPA 70721.

**Schedule Type:** Laboratory

**Contact Hours:** 3 lab

**Grade Mode:** Standard Letter

**SPA 70755 LABORATORY FOR ADVANCED ELECTROPHYSIOLOGIC AND VESTIBULAR MEASURES 1 Credit Hour**

Laboratory exercises for the assessment, management and treatment of auditory and vestibular disorders including early, middle and late auditory evoked potentials and advanced vestibular measures.

**Prerequisite:** Audiology major; and doctoral standing.

**Corequisite:** SPA 70733.

**Schedule Type:** Laboratory

**Contact Hours:** 3 lab

**Grade Mode:** Standard Letter

**SPA 70791 FOURTH YEAR SEMINAR 1 Credit Hour**

(Repeatable for credit) In-depth consideration of topics/issues in the practice of audiology with emphasis upon issues related to clinical rotation.

**Prerequisite:** Doctoral standing; and special approval.

**Corequisite:** SPA 70750 or SPA 70751.

**Schedule Type:** Seminar

**Contact Hours:** 1 other

**Grade Mode:** Standard Letter

**SPA 70792 INTERNSHIP IN AUDIOLOGY 2 Credit Hours**

(Repeatable for credit) Supervised clinical practicum in audiology requiring the independent performance of diagnostic, hearing aids and audiologic rehabilitation procedures. Students are required to complete Bureau of Criminal Investigation and Identification (BCII) and Federal Bureau of Investigation (FBI) background checks and submit the results to authorized personnel at their assigned 'school/agency' before the first day of the semester in which student teaching/internship will take place.

**Prerequisite:** SPA 70692; and doctoral standing.

**Schedule Type:** Practical Experience

**Contact Hours:** 18 other

**Grade Mode:** Standard Letter

**SPA 70798 RESEARCH PROJECT IN AUDIOLOGY 3 Credit Hours**

(Repeatable for credit) Completion of a doctoral research project including data collection, analysis write-up and oral presentation.

**Prerequisite:** Admission to the AUD program; and doctoral standing.

**Schedule Type:** Research

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter-IP

**SPA 70892 INTERNSHIP III 2 Credit Hours**

Clinical practicum in audiology during which students perform discrete tasks under supervision.

**Prerequisite:** Admission to the audiology major; and doctoral standing; and special approval.

**Schedule Type:** Practical Experience

**Contact Hours:** 18 other

**Grade Mode:** Standard Letter

**SPA 70992 INTERNSHIP IV 2 Credit Hours**

Clinical practicum in audiology during which students perform discrete tasks under supervision.

**Prerequisite:** Doctoral standing; and special approval.

**Schedule Type:** Practical Experience

**Contact Hours:** 18 other

**Grade Mode:** Standard Letter

**SPA 73691 SEMINAR IN AUDIOLOGY 3 Credit Hours**

(Repeatable for a maximum of 12 credit hours) Research, readings and discussion in any of these areas: aural rehabilitation, amplification, psychoacoustics, auditory physiology, medical audiology, hearing conservation.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Seminar

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**SPA 74089 VARIABLE TOPIC INTERNATIONAL EXPERIENCE IN SPEECH PATHOLOGY AND AUDIOLOGY 1-4 Credit Hours**

(Repeatable for credit) (Slashed with SPA 44089 and SPA 54089) A faculty-led study abroad experience that integrates traditional classroom learning with experiential activities and site visits outside the United States. International experience courses may have pre- and post-travel classroom study. Course activities may include, but are not limited to, classroom study, research, field work, internships and service learning.

**Prerequisite:** Doctoral standing.

**Schedule Type:** International Experience

**Contact Hours:** 1-4 other

**Grade Mode:** Standard Letter-IP

**SPA 74093 WORKSHOP IN COMMUNICATION DISORDERS 1-3 Credit Hours**

(Repeatable for credit) Variable topic workshop offered when need arises, either on or off campus to update training in a particular area of speech pathology.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Workshop

**Contact Hours:** 1-3 other

**Grade Mode:** Satisfactory/Unsatisfactory

**SPA 74191 SEMINAR:NEUROGENIC COMMUNICATION DISORDERS 1-3 Credit Hours**

(Repeatable for a maximum of 9 credit hours) Reading and discussion seminar on swallowing disorders and the communication disorders relating to aphasia, apraxia, dysarthria, closed head injury, right brain damage and dementia.

**Prerequisite:** SPA 64301; and doctoral standing.

**Schedule Type:** Seminar

**Contact Hours:** 1-3 other

**Grade Mode:** Standard Letter-S/U-IP

**SPA 74291 SEMINAR:CHILD LANGUAGE 1-3 Credit Hours**

(Repeatable for a maximum of 9 credit hours) Topics are selected for class investigation from the areas of child language, development or disorders.

**Prerequisite:** Doctoral standing; and special approval.

**Schedule Type:** Seminar

**Contact Hours:** 1-3 other

**Grade Mode:** Standard Letter-S/U-IP

**SPA 74301 APHASIA 3 Credit Hours**

Neuroanatomy, etiologies, symptomatologies, evaluation procedures and treatment techniques relating to aphasia in adults.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPA 74302 LANGUAGE ASSESSMENT AND INTERVENTION IN EARLY CHILDHOOD 3 Credit Hours**

Methods of language assessment and intervention for infants, toddlers and preschoolers who are either at risk or diagnosed as presenting language delays or disabilities.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPA 74303 DISORDERS OF ARTICULATION AND PHONOLOGY 3 Credit Hours**

Diagnosis and remediation of children's articulation and phonological disorders.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPA 74304 ACQUIRED COGNITIVE COMMUNICATIVE IMPAIRMENTS 3 Credit Hours**

Cognitive functions and etiologies, symptomologies, evaluation and treatment methods related to adults with cognitive communicative disorders subsequent to right hemisphere damage, traumatic brain injury, dementia and related impairments.

**Prerequisite:** Speech language pathology major; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPA 74305 FLUENCY DISORDERS 3 Credit Hours**

Nature, theories and their derived approaches to the assessment and treatment of fluency disorders.

**Prerequisite:** Speech language pathology major; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPA 74306 VOICE DISORDERS 2 Credit Hours**

Normal aspects of voice production, etiology and symptomatology of voice disorders, diagnostic procedures and management techniques.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**SPA 74307 DYSARTHRIA 1 Credit Hour**

Neuro-anatomy, etiologies, symptomatologies, evaluation procedures and treatment techniques relating to dysarthria in adults.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 1 lecture

**Grade Mode:** Standard Letter

**SPA 74308 LANGUAGE ASSESSMENT AND INTERVENTION WITH SCHOOL-AGE POPULATIONS 3 Credit Hours**

Theoretical background knowledge and practical assessment and intervention techniques for school-age children who demonstrate language disorders.

**Prerequisite:** SPA 34107; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPA 74309 AUTISM SPECTRUM DISORDERS: THEORY AND DIAGNOSIS 3 Credit Hours**

(Cross-listed with SPED 44309 and SPED 64309) (Slashed with SPA 64309) Provides an overview of Autism Spectrum Disorders (ASD). Examines the history, characteristics, and prevalence of ASD. Assessment and intervention models are explored as they relate to various theoretical models for understanding ASD.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPA 74310 AUTISM SPECTRUM DISORDERS: LIFESPAN INTERVENTIONS 3 Credit Hours**

(Cross-listed with SPA 64310) (Slashed with SPED 64310) Provides students with a review of the significant aspects related to educational, social, vocational transitions for children, adolescents, and young adults with autism spectrum disorders (ASD). Students learn skills necessary to evaluate and develop programs designed to meet the changing and long term needs of individuals with ASD.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPA 74312 MOTOR SPEECH DISORDERS IN CHILDREN AND ADULTS 3 Credit Hours**

(Slashed with SPA 64312) Anatomic and physiologic bases of congenital and acquired motor speech disorders. Etiology, symptomatology, evaluation and treatment techniques related to variety of motor speech disorders in children and adults.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPA 74354 PEDIATRIC MEDICAL ISSUES 2 Credit Hours**

Nature and rehabilitative procedures for speech-language pathology practice with pediatric medical issues, including dysphagia and maxillofacial anomalies and resonance disorders.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**SPA 74356 ADULT DYSPHAGIA 3 Credit Hours**

Anatomy, etiologies, symptomatologies, evaluation procedures and treatment techniques relating to swallowing disorders in adults.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPA 74391 SEMINAR: ARTICULATION AND PHONOLOGY 1-3 Credit Hours**

(Repeatable for a maximum of 9 credit hours) Critical review and application of systems and methods for assessment and remediation of articulation and phonological disorders.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Seminar

**Contact Hours:** 1-3 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**SPA 74491 SEMINAR: ORGANIC SPEECH DISORDERS 1-3 Credit Hours**

(Repeatable for credit) A revolving topics seminar on theoretical and/or clinical issues related to neurogenic/organic speech and/or language disorders.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Seminar

**Contact Hours:** 1-3 other

**Grade Mode:** Standard Letter-S/U-IP

**SPA 74492 CLINICAL PRACTICE IN SPEECH PATHOLOGY AND AUDIOLOGY 1-12 Credit Hours**

(Repeatable for credit) Supervised clinical practice with patients who have speech, hearing or language problems.

**Prerequisite:** Doctoral standing; and special approval.

**Schedule Type:** Practical Experience

**Contact Hours:** 1-12 other

**Grade Mode:** Standard Letter-IP

**SPA 74500 NORMAL LANGUAGE PROCESSES 3 Credit Hours**

Examines current theory and research specific to normal human development from birth to age 21. Significant neurological, cognitive, social, linguistic, emotional, literacy, and motor developmental changes are explored..

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPA 74501 SOCIAL COMMUNICATION ASPECTS OF AUTISM SPECTRUM DISORDER 3 Credit Hours**

Provides an understanding of the social, communication, and language needs of those with ASD from childhood through adulthood. Examines the cognitive, neurological, social, and environmental components influencing social, communicative functioning. Reviews contemporary assessment and intervention strategies. Explores use of assistive technology to enhance social communicative functioning in those with ASD.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter



**SPA 74504 ADVANCED SPEECH AND VOICE SCIENCE 3 Credit Hours**

Application of normal and disordered speech, swallowing, and voice production and perception; survey of literature; theories of production and perception.

**Prerequisite:** SPA 4/54110; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPA 74591 SEMINAR:FLUENCY DISORDERS 1-3 Credit Hours**

(Repeatable for a maximum of 9 credit hours)Seminar dealing with the theoretical and applied aspects of fluency disorders in children and adults.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Seminar

**Contact Hours:** 1-3 other

**Grade Mode:** Standard Letter-S/U-IP

**SPA 74592 CLERKSHIP I 1 Credit Hour**

Introduction to clinical practicum in audiology. Directed observation of clinical practice including audiologic diagnosis and audiologic rehabilitation are required.

**Prerequisite:** Admission to the audiology major; and doctoral standing; and special approval.

**Schedule Type:** Practical Experience

**Contact Hours:** 18 other

**Grade Mode:** Satisfactory/Unsatisfactory

**SPA 74600 RESEARCH METHODS IN SPEECH-LANGUAGE PATHOLOGY 3 Credit Hours**

Methodologies for collecting, analyzing and interpreting data for clinical and research purposes in speech language pathology and audiology.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPA 74691 SEMINAR:VOICE DISORDERS 1-3 Credit Hours**

(Repeatable for a maximum of 9 credit hours) Current literature review and discussions dealing with varying topics ranging from normal aspects of phonation in various populations to disorders of voice and their diagnosis and treatment.

**Prerequisite:** SPA 6/74306; and doctoral standing.

**Schedule Type:** Seminar

**Contact Hours:** 1-3 other

**Grade Mode:** Standard Letter-S/U-IP

**SPA 74692 CLERKSHIP II 1 Credit Hour**

Introduction to clinical practicum in audiology. Directed observation of clinical practice including audiologic diagnosis and audiologic rehabilitation are required.

**Prerequisite:** Admission to the audiology major; and doctoral standing; and special approval.

**Schedule Type:** Practical Experience

**Contact Hours:** 1 other

**Grade Mode:** Satisfactory/Unsatisfactory

**SPA 74791 SEMINAR:SPEECH SCIENCE 1-3 Credit Hours**

(Repeatable for a maximum of 9 credit hours) Consideration of selected topics related to physiological, anatomical and acoustic aspects of speech production and perception.

**Prerequisite:** SPA 4/54110 or SPA 6/74504; and doctoral standing.

**Schedule Type:** Seminar

**Contact Hours:** 1-3 other

**Grade Mode:** Standard Letter-S/U-IP

**SPA 74792 GRADUATE AUDIOLOGIST III 6 Credit Hours**

Supervised clinical practicum in audiology which encompasses the entire range of audiologic procedures including neurophysiological based procedures.

**Prerequisite:** Passing score of 600 or higher on the PRAXIS examination; and SPA 70748; and doctoral standing; and special approval.

**Corequisite:** SPA 70791.

**Schedule Type:** Practical Experience

**Contact Hours:** 18 other

**Grade Mode:** Standard Letter

**SPA 74891 SEMINAR:COMMUNICATION MODALITIES AND ASSISTIVE TECHNOLOGY 3 Credit Hours**

(Repeatable for credit)Nature, etiologies and correlates of speech language communication disorders and differences that may indicate a need for a multi-modal communication approach. Includes an emphasis on assistive technology for communication language, learning and literacy.

**Prerequisite:** Speech language pathology major; and doctoral standing.

**Schedule Type:** Seminar

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**SPA 74892 GRADUATE AUDIOLOGIST V 8 Credit Hours**

Full-time external audiology clinical placement with a licensed and appropriately credentialed preceptor who provides clinical teaching. This experience provides a capstone learning experience in the full scope of practice in the profession of audiology.

**Prerequisite:** SPA 70750; and doctoral standing; and special approval.

**Schedule Type:** Practical Experience

**Contact Hours:** 24 other

**Grade Mode:** Standard Letter

**SPA 74991 SEMINAR:CRITICAL TOPICS IN SPEECH LANGUAGE PATHOLOGY 1-3 Credit Hours**

(Repeatable for credit) Principles and methods of assessment and intervention for various topics in speech-language pathology from critical thinking and case-study framework.

**Prerequisite:** Speech pathology and audiology major; and doctoral standing.

**Schedule Type:** Seminar

**Contact Hours:** 1-3 other

**Grade Mode:** Standard Letter-S/U-IP

**SPA 75092 CLINICAL PRACTICUM I IN SPEECH LANGUAGE PATHOLOGY 2-3 Credit Hours**

(Slashed with SPA 65092) (Repeatable twice for credit) Supervised, introductory clinical experience in assessment and intervention with populations within the scope of practice of speech language pathology per the current practice policy of the American Speech Language Hearing Association. To facilitate clinical competency and accrual of required clinical clock hours per current ASHA standards, students are expected to enroll in clinical practicum each semester that they are not enrolled in externship or student teaching. A grade of B or better in this course is required for permission to register in CLIN PR II SPE LANG PATH-SPA 65192.

**Prerequisite:** Doctoral standing; and special approval.

**Schedule Type:** Practical Experience

**Contact Hours:** 8-12 other

**Grade Mode:** Standard Letter-IP



**SPA 75192 CLINICAL PRACTICUM II IN SPEECH LANGUAGE PATHOLOGY 2-3 Credit Hours**

(Slashed with SPA 65192) (Repeatable twice for credit) This course includes additional supervised hands on clinical experience with clients in on campus clinics. Student clinicians are provided with opportunities to demonstrate increased independence in clinical decision making and performance. Practicum requirements may include attendance at a weekly Clinical Colloquium. A grade of B or better in this course is required for permission to enroll in Clinical Practicum III in Speech Language Pathology SPA 75292.

**Prerequisite:** SPA 75092 with a minimum B grade; and doctoral standing; and special approval.

**Schedule Type:** Practical Experience

**Contact Hours:** 8-12 other

**Grade Mode:** Standard Letter-IP

**SPA 75292 CLINICAL PRACTICUM III IN SPEECH LANGUAGE PATHOLOGY 2-3 Credit Hours**

(Slashed with SPA 65292) (Repeatable twice for credit) Includes additional supervised, hands-on clinical experience with clients in on campus clinics and or off campus, supervised clinical experience in sites such as schools or long-term care facilities. Students clinicians are provided with opportunities to demonstrate levels of independence in clinical decision-making and performance that reflect readiness for externship or student teaching experiences. Practicum requirements may include attendance at a weekly clinical colloquium. A grade of B or better in this course is required for permission to register in the following courses: clinical practicum IV in speech language pathology SPA 75392, externship in speech language pathology: adult SPA 75492, externship in speech language pathology: pediatric SPA 75592, student teaching in speech language pathology SPA 64528.

**Prerequisite:** SPA 75192 with a minimum B grade; and doctoral standing; and special approval.

**Schedule Type:** Practical Experience

**Contact Hours:** 8-12 other

**Grade Mode:** Standard Letter-IP

**SPA 75392 CLINICAL PRACTICUM IV IN SPEECH LANGUAGE PATHOLOGY 2-3 Credit Hours**

(Repeatable for credit) This supervised, hands on clinical experience with clients in on campus clinics or off campus sites is for second year graduate students who are not yet scheduled for externship or student teaching. Students clinicians are provided with opportunities to demonstrate levels of independence in clinical decision making and performance that are reflective of readiness for externship or student teaching experiences. A grade of B or better in this course is required for permission to register in the following courses: externship in speech language pathology: adult SPA 75492, externship in speech language pathology: pediatric SPA 75592, student teaching in speech language pathology SPA 64528.

**Prerequisite:** SPA 75292 with a minimum B grade; and doctoral standing; and special approval.

**Schedule Type:** Practical Experience

**Contact Hours:** 8-12 other

**Grade Mode:** Standard Letter-IP

**SPA 75492 EXTERNSHIP IN SPEECH LANGUAGE PATHOLOGY: ADULT 4-8 Credit Hours**

(Cross-listed with SPA 65492) (Repeatable once for credit) Considered a culminating clinical experience. Includes supervised, hands on clinical experience with patients in adult care settings such as hospitals, rehabilitation and long term care facilities.

**Prerequisite:** SPA 75292 or SPA 75392 with a minimum B grade; and doctoral standing; and special approval.

**Schedule Type:** Practical Experience

**Contact Hours:** 20-40 other

**Grade Mode:** Standard Letter-IP

**SPA 75592 EXTERNSHIP IN SPEECH LANGUAGE PATHOLOGY: PEDIATRIC 4-8 Credit Hours**

(Slashed with SPA 65592) (Repeatable once for credit) Considered a culminating clinical experience. Students may choose this course as an alternative to Student Teaching in Speech Language Pathology. Includes supervised, hands on clinical experience with children and adolescents in pediatric care settings such as hospitals and other habilitation and rehabilitation facilities.

**Prerequisite:** SPA 75292 or SPA 75392 with a minimum B grade; and doctoral standing; and special approval.

**Schedule Type:** Practical Experience

**Contact Hours:** 20-40 other

**Grade Mode:** Standard Letter-IP

**SPA 75792 INTERNSHIP I 1 Credit Hour**

Clinical practicum in audiology during which students perform discrete tasks under supervision.

**Prerequisite:** Admission to the audiology major; and doctoral standing; and special approval.

**Corequisite:** SPA 70709.

**Schedule Type:** Practical Experience

**Contact Hours:** 18 other

**Grade Mode:** Standard Letter

**SPA 76792 INTERNSHIP II 1 Credit Hour**

Supervised clinical practicum in audiology during which students will perform discrete clinical tasks while under supervision.

**Prerequisite:** Admission to the audiology major; and SPA 75792; and doctoral standing and special approval.

**Schedule Type:** Practical Experience

**Contact Hours:** 18 other

**Grade Mode:** Standard Letter

**SPA 84091 SEMINAR IN COMMUNICATION DISORDERS 2 Credit Hours**

(Repeatable for a maximum 9 credit hours)Special topics seminar for advanced students in speech-language pathology and audiology. Presentations and discussion of research projects are required.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Seminar

**Contact Hours:** 2 other

**Grade Mode:** Standard Letter

**SPA 84096 INDIVIDUAL INVESTIGATION-SPEECH PATHOLOGY AND AUDIOLOGY 1-6 Credit Hours**

(Repeatable for a maximum of 12 credit hours)Independent study of topics to be selected in consultation with graduate faculty.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Individual Investigation

**Contact Hours:** 1-6 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**SPA 84098 RESEARCH 1-15 Credit Hours**

(Repeatable for credit) Research opportunities for doctoral students who have not yet passed their candidacy examination.

**Prerequisite:** Doctoral standing; and special approval.

**Schedule Type:** Research

**Contact Hours:** 1-15 other

**Grade Mode:** Standard Letter-S/U-IP

**SPA 84199 DISSERTATION I 15 Credit Hours**

(Repeatable for credit) Doctoral dissertation for which registration in at least two semesters is required, first of which will be semester in which dissertation work is begun and continuing until the completion of 30 hours.

**Prerequisite:** Doctoral standing; and special approval.

**Schedule Type:** Dissertation

**Contact Hours:** 15 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**SPA 84299 DISSERTATION II 15 Credit Hours**

(Repeatable for credit) Continuing registration required of doctoral students who have completed the initial 30 hours of dissertation and continuing until all degree requirements are met.

**Prerequisite:** SPA 84199; and doctoral standing; and special approval.

**Schedule Type:** Dissertation

**Contact Hours:** 15 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

## School of Lifespan Development and Educational Sciences

### American Sign Language/English Interpreting (ASEI)

**ASEI 30095 SPECIAL TOPICS IN AMERICAN SIGN LANGUAGE-ENGLISH INTERPRETING 1-4 Credit Hours**

(Repeatable for credit) Special topics courses to be offered on as-needed basis when the content cannot be covered in the traditional curriculum.

**Prerequisite:** ASL 29201 and ASEI 43102; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 1-4 lecture

**Grade Mode:** Standard Letter

**ASEI 43100 SURVEY OF THE INTERPRETING PROFESSION (WIC) 3 Credit Hours**

(Slashed with SPED 53100) Introduction to the field of ASL-English interpreting. The following will be discussed: the history of the interpreting profession; the varied roles and responsibilities of interpreters; issues & concerns facing interpreters; legal mandates and constraints governing the provision of interpreters; ethical guidelines and their application to educational environments. Since interpreters are expected to be fluent in both English and ASL, this course will strive to enhance students' facility with both languages.

**Prerequisite:** Minimum C grade in ASL 19202.

**Pre/corequisite:** Minimum C grade in ASL 29201.

**Corequisite:** ASEI 43106 and SPED 43309.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Writing Intensive Course

**ASEI 43102 INTERPRETING PROCESSES I 3 Credit Hours**

(Slashed with SPED 53102) Beginning level interpreting course that examines the models of interpreting and their application to practice. Consecutive and simultaneous interpreting strategies are used to develop processing skills for both English to ASL and ASL to English interpretations. Samples of narrative genre are the texts used for interpretations as students examine the linguistic and cultural differences between ASL and English narratives.

**Prerequisite:** ASL 29201 and ASEI 43100; and ASL English Interpreting (ASEI) major.

**Pre/corequisite:** ASL 29202.

**Corequisite:** ASL 49401.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ASEI 43103 INTERPRETING PROCESSES II 3 Credit Hours**

(Slashed with SPED 53103) Intermediate level interpreting course that challenges students to interpret the more complex genres including expository, procedural, and argumentative texts. Students will study and apply contextualization strategies. Discourse that is common to both the adult deaf community and educational settings will be interpreted and transliterated. There will be clinical application hours that students will need to accrue in this course.

**Prerequisite:** Minimum C grade in the following courses ASL 29202 and ASEI 43102; and ASL English Interpreting (ASEI) major; and admission to professional phase.

**Pre/corequisite:** Minimum C grade in ASL 39201.

**Corequisite:** ASEI 43111 and SPED 43310.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ASEI 43104 INTERPRETING PROCESSES III 3 Credit Hours**

(Slashed with SPED 53104) Advanced level interpreting course focused on enhancing students' English to ASL and ASL to English skills in a variety of settings. Complex texts are selected from a variety of disciplines from both community and educational settings. Students build on previously developed self-assessment skills to create detailed and analytical diagnostic charts of their interpreted work. There will be clinical application hours that students will need to accrue in this course.

**Prerequisite:** Minimum C grade in the following courses ASL 39202, ASEI 43107 and SPED 43092; and ASL English Interpreting (ASEI) major; and admission to professional phase.

**Pre/corequisite:** Minimum C grade in ASEI 43112.

**Corequisite:** ASL 49108.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ASEI 43105 TRANSLITERATING 3 Credit Hours**

(Slashed with SPED 53105) Receptive and expressive use of English-based sign language systems; ASL root words, prefix suffix use, simultaneous speaking and signing. Explanation and demonstration of Cued speech; exploration of the research related to individuals who use Cued speech.

**Prerequisite:** ASEI 43103 and ASL 39201; and ASL English Interpreting (ASEI) major; and admission to professional phase.

**Pre/corequisite:** ASL 39202.

**Corequisite:** ASEI 43107, ASEI 43110 and SPED 43092.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ASEI 43106 SCHOOL SETTING INTERPRETING 3 Credit Hours**

Issues, challenges, roles, responsibilities, and ethics of classroom-based educational interpreting are explored. Students are exposed to the variety of classroom designs where interpreters work such as mainstreaming, inclusion, resource room, and self-contained classrooms. K-12 settings place additional expectations for interpreter participation including IEP meetings, counseling, school assemblies and performing arts presentations.

**Prerequisite:** ASL 19202; and American Sign Language/English Interpreting [ASEI] major; and special approval.

**Pre/corequisite:** ASL 29201.

**Corequisite:** ASEI 43100.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ASEI 43107 COMMUNITY SETTING INTERPRETING 3 Credit Hours**

(Slashed with SPED 53107) This course explores the various venues that interpreters can work in the community. Emphasis will be given to the development of specialized vocabulary. Students participate in mock interpreting situations common to community interpreting in order to identify ethical dilemmas, demands and controls.

**Prerequisite:** ASEI 43103, ASEI 43111, ASL 39201 and SPED 43310; and ASL English Interpreting (ASEI) major; and admission to professional phase.

**Pre/corequisite:** ASL 39202.

**Corequisite:** ASEI 43110, ASEI 43105 and SPED 43092.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ASEI 43108 MEDICAL INTERPRETING 3 Credit Hours**

(Slashed with SPED 53108) This course provides students with the opportunity to explore medical topics, terminologies, and areas of practice to enable them to more effectively meet the needs of deaf patients in a variety of health care settings. This course is designed to equip students with basic skills and knowledge to meet the demands of this setting. Students in this course will become familiar with body systems structures, functions, and common conditions-diseases affecting these systems. Students will be exposed to a variety of medical protocols, scripts, testing procedures, and areas of medical practice. As a result, students will be able to interpret medical information into ASL appropriate structures. They will specifically be able to apply strategies of depiction and spatial mapping.

**Prerequisite:** Minimum C grade in ASEI 43102 or SPED 53102; and American Sign Language/English Interpreting major.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ASEI 43109 MENTAL HEALTH INTERPRETING 3 Credit Hours**

This course will provide students with a foundation of common diagnoses, mental health professionals and their various roles, common mental health settings interpreters may work, and terminology paired with ASL equivalents. This course will also emphasize the relationship between interpreter and mental health professional, providing skill sets in which to pre-and-post conference to ensure an accurate interpretation is rendered, and the goals of the therapist-professional have been met.

**Prerequisite:** Minimum C grade in ASEI 43103 or SPED 53103; and American Sign Language/English Interpreting major.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ASEI 43110 DISCOURSE ANALYSIS FOR INTERPRETERS 3 Credit Hours**

(Slashed with SPED 53110) This course will explore the field of discourse analysis and its relation to the work of an interpreter. Students will complete the course with an understanding of terminology specific to discourse analysis, a better understanding of one's own discourse style, and a better idea of how English and ASL use various discourse features. These features include the following: Turn-taking, Conversational Repair- false starts, Discourse Markers, Constructing Dialogue & Action, Cohesion, Rhythm, Rhyme, & Repetition.

**Prerequisite:** ASL 39201; and ASEI 43103, ASEI 43111 and SPED 43310; and admission to the professional phase.

**Pre/corequisite:** ASL 39202.

**Corequisite:** ASEI 43105 and ASEI 43107.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ASEI 43111 THE PROFESSIONAL INTERPRETER 3 Credit Hours**

(Slashed with ASEI 53111) Covers current trends in the field regarding situational and ethical issues. Demand-control schema and the RID Code of Professional Conduct are key components of the students' investigation and application. Students receive guidance in preparing for the RID NIC and participate in practicing for the RID performance test.

**Prerequisite:** ASEI 43102 and ASL 49401; and ASL English Interpreting major; and admission to professional phase.

**Pre/corequisite:** ASL 39201.

**Corequisite:** ASEI 43103 and SPED 43310.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ASEI 43112 INTERACTIVE INTERPRETING 3 Credit Hours**

(Slashed with SPED 53112) Guides students through a process of examining the complex nature of interpreting interactive discourse. Discussions will focus on managing this multi-layered process when participants' roles, assumptions, and goals can be congruent or adversarial. Student will learn to navigate contrasting cultural, linguistic, and discourse expectations. This course will present numerous interactive scenarios for students to interpret typical of a variety of settings with different participant configurations.

**Prerequisite:** ASL 29202, ASL 49401, ASEI 43100, ASEI 43102, ASEI 43103, ASEI 43106 and SPED 43309; and ASL English Interpreting major; and admission to professional phase.

**Pre/corequisite:** ASL 39201.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ASEI 43113 ASL TO ENGLISH INTERPRETING PROCESSES 3 Credit Hours**

(Slashed with SPED 53113) Guides students in developing interpreting skills from their L2 (ASL) to their L1 (English). Students will learn strategies for increasing their ASL and English vocabularies for the purposes of understanding equivalents when applying English vocabulary to ASL signs. Students will examine their ability to apply this proficiency to various registers of ASL. Course will also emphasize incorporating Academic English into written scholarly papers to increase students' abilities to apply this to their interpretations.

**Prerequisite:** ASL 29201 and ASEI 43100; and ASL English Interpreting major.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ASEI 43192 ADVANCED PRACTICUM: ASL ENGLISH INTERPRETING (ELR) 9 Credit Hours**

(Repeatable for credit) Field-based practicum experience provides pre-service interpreters with opportunity to learn from currently practicing master educational and-or community interpreters. Students will be placed in education and-or community settings. University supervisor and teacher mentor observe and assess student skill. Students are required to complete Bureau of Criminal Investigation and Identification (BCII) and Federal Bureau of Investigation (FBI) background checks and submit the results to authorized personnel at their assigned school-agency before the first day of the semester in which the internship will take place. Official valid certification of Child Safety Training, approved Basic Life Support, and A.L.I.C.E. Training must be presented to the campus office of clinical experience or designated faculty-staff at Regional campuses before registering for this course. Students must pass the SLPI or ASLPI on or before Oct. 31st the semester prior. Major GPA of 3.000 is required.

**Prerequisite:** Minimum B- grade in ASEI 43104; and minimum C grade in ASEI 43112 and ASL 49108; and ASL English Interpreting major; and admission to professional phase; and a 2.750 overall GPA; and special approval.

**Corequisite:** ASEI 49625.

**Schedule Type:** Practical Experience

**Contact Hours:** 27 other

**Grade Mode:** Satisfactory/Unsatisfactory

**Attributes:** Experiential Learning Requirement

**ASEI 49625 INQUIRY SEMINAR FOR ASL-ENGLISH INTERPRETERS 3 Credit Hours**

Final semester course to coincide with the advanced practice. Students present a professional description of their interpreting site analyzing students' needs, school and instructor expectations or barriers, application of the Demand – Control Schema, and ethical challenges. Current research in the field of interpreting is examined and a diagnostic chart of a work sample is created. Students explore the EIPA exam, its theoretical foundations, and participate in practicing for the EIPA.

**Prerequisite:** ASL 49108, ASEI 43104 and ASEI 43112; and ASL English Interpreting major; and admission to professional phase.

**Corequisite:** ASEI 43192.

**Schedule Type:** Seminar

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**Career and Community Services (CCS)****CCS 00005 COLLEGE ORIENTATION 1 Credit Hour**

This course introduces students to the expectations and responsibilities of being a college student. Students will be provided with valuable information of the resources and activities available at Kent State. Students will explore personal values, skills, abilities, and beliefs, and learn how to set academic goals that will guide them throughout their college experience.

**Prerequisite:** Career and Community Studies, Career Community Studies–College Preparation, Career Community Studies–Employment Readiness majors; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 1 lecture

**Grade Mode:** Satisfactory/Unsatisfactory

**CCS 00010 PERSONAL EXPLORATION I: NUTRITION AND PHYSICAL FITNESS 3 Credit Hours**

This course focuses on the importance of nutrition and physical exercise in order to take care of and to improve upon one's personal health needs.

**Prerequisite:** Career and Community Studies, Career Community Studies–College Preparation, Career Community Studies–Employment Readiness majors.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CCS 00015 ACADEMIC EXPERIENCE I: DISABILITY AWARENESS 3 Credit Hours**

This course promotes development of self-awareness through identifying personal strengths and needs, and self-advocacy skills through various methods of communication. Students will learn of their rights, responsibilities, and of the disabilities laws that help them to advocate for necessary supports.

**Prerequisite:** Career and Community Studies, Career Community Studies–College Preparation, Career Community Studies–Employment Readiness majors.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CCS 00020 TECHNOLOGY LABORATORY I 1 Credit Hour**

This course is an introduction to the uses of Flashline, BlackBoard Learn, and Microsoft Word to enhance student academic performance.

**Prerequisite:** Career and Community Studies, Career Community Studies–College Preparation, Career Community Studies–Employment Readiness majors.

**Schedule Type:** Laboratory

**Contact Hours:** 2 lab

**Grade Mode:** Standard Letter

**CCS 00025 FINANCIAL LITERACY I: BUDGETING PERSONAL EXPENSES IN COLLEGE 1 Credit Hour**

This introductory course will provide the student with an opportunity to develop attitudes and skills to achieve personal financial wellness and satisfaction while in college. Topics include how to set up a budget, considering where one might save money in daily living, and managing expenses.

**Prerequisite:** Career and Community Studies major, Career and Community Studies-College Preparation, or Career and Community Studies-Employment Readiness major.

**Schedule Type:** Lecture

**Contact Hours:** 1 lecture

**Grade Mode:** Standard Letter



**CCS 00030 PHYSICAL EDUCATION I 1 Credit Hour**

Students will participate in a sport or physical fitness activity in order to learn more about the topic of interest and to increase personal health. Students will practice appropriate personal and social skills, and demonstrate abilities to manage course responsibilities.

**Prerequisite:** Career and Community Studies, Career Community Studies–College Preparation, Career Community Studies–Employment Readiness majors.

**Schedule Type:** Laboratory

**Contact Hours:** 2 lab

**Grade Mode:** Satisfactory/Unsatisfactory

**CCS 00035 HEALTH AND WELLNESS I: PERSONAL SOCIAL SKILLS 3 Credit Hours**

Effective communication enhances personal, family, and community health. Select personal and social skills are presented in order to improve the health of the student. The student will participate in activities that allow them to practice and perform skills both in and outside of the classroom. The student creates a portfolio of course assignments for evaluation.

**Prerequisite:** Career and Community Studies, Career Community Studies–College Preparation, Career Community Studies–Employment Readiness majors.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CCS 00040 GET OUT OF YOUR COMFORT ZONE I: PREPARING FOR SUCCESS 3 Credit Hours**

Life begins with one step outside of your comfort zone. This introductory course is designed to teach many different literacy (e.g. reading, writing, speaking, and technology) skills that college students must develop in order for academic, community inclusion and social success, and to expand self-knowledge about personal strengths, preferences, interests, and needs. The student will apply self-determination as they develop skills necessary to attain academic success and to make connections to the university and community beyond.

**Prerequisite:** Career and Community Studies major, Career and Community Studies-College Preparation, or Career and Community Studies-Employment Readiness major.

**Schedule Type:** Laboratory, Lecture, Combined Lecture and Lab

**Contact Hours:** 1 lecture, 6 lab

**Grade Mode:** Standard Letter

**CCS 00105 INTRODUCTION TO CAREER EXPLORATION 1 Credit Hour**

Students begin the exploration process that helps them to become aware of their specific abilities, interests, and needs, and how these relate to their future life work.

**Prerequisite:** Career and Community Studies, Career Community Studies–College Preparation, Career Community Studies–Employment Readiness majors.

**Schedule Type:** Lecture

**Contact Hours:** 1 lecture

**Grade Mode:** Standard Letter

**CCS 00110 PERSONAL EXPLORATION II: INDEPENDENT LIVING AND LEISURE EDUCATION 3 Credit Hours**

This course focuses on two different but related topics. The first half of the semester is designed to provide college students with the opportunity to explore and develop personal leisure values, and expand their leisure interests. During the second half of the semester, students will practice various independent living skills in order to become more responsible adults.

**Prerequisite:** Career and Community Studies, Career Community Studies–College Preparation, Career Community Studies–Employment Readiness majors.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CCS 00115 ACADEMIC EXPERIENCE II: SELF-DETERMINATION 3 Credit Hours**

This course will provide students with opportunities to recognize and develop skills that can help them to increase success in all areas of their lives. Persons who are more self-determined often experience academic, employment, community living and personal satisfaction.

**Prerequisite:** Career and Community Studies, Career Community Studies–College Preparation, Career Community Studies–Employment Readiness majors.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CCS 00120 TECHNOLOGY LABORATORY II 1 Credit Hour**

Introduction to the uses of Microsoft Power Point, Publisher, and Excel in order to connect knowledge and learning experiences for student success.

**Prerequisite:** Career and Community Studies, Career Community Studies–College Preparation, Career Community Studies–Employment Readiness majors.

**Schedule Type:** Laboratory

**Contact Hours:** 2 lab

**Grade Mode:** Standard Letter

**CCS 00125 FINANCIAL LITERACY II: BUDGETING PERSONAL EXPENSES AFTER COLLEGE 1 Credit Hour**

This course will provide the student with a more detailed opportunity to reflect on one's desire and ability to manage money in adult life to achieve personal financial wellness and satisfaction. Topics include earning and saving money, how to calculate wages and understanding federal, state, and local taxes, and establishing a realistic budget that will help the student to transition into adult life.

**Prerequisite:** Career and Community Studies major, Career and Community Studies-College Preparation, or Career and Community Studies-Employment Readiness major.

**Schedule Type:** Lecture

**Contact Hours:** 1 lecture

**Grade Mode:** Standard Letter



**CCS 00130 PHYSICAL EDUCATION II 1 Credit Hour**

Students will participate in a sport or physical fitness activity in order to learn more about the topic of interest and to increase personal health. Students will advance appropriate personal and social skills, and demonstrate increased abilities to manage course responsibilities.

**Prerequisite:** Career and Community Studies, Career Community Studies–College Preparation, Career Community Studies–Employment Readiness majors; and special approval.

**Schedule Type:** Laboratory

**Contact Hours:** 2 lab

**Grade Mode:** Satisfactory/Unsatisfactory

**CCS 00135 HEALTH AND WELLNESS II: HUMAN SEXUALITY 3 Credit Hours**

Focus of the course is to understand behaviors and issues related to human sexuality.

**Prerequisite:** Career and Community Studies, Career Community Studies–College Preparation, Career Community Studies–Employment Readiness majors.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CCS 00140 GET OUT OF YOUR COMFORT ZONE II: VOLUNTEERING 3 Credit Hours**

With busy lives, it can be hard to find time to volunteer. However, the benefits of volunteering are enormous to you, your family, and your community. Volunteering and helping others can help you reduce stress, combat depression, keep you mentally stimulated, and provide a sense of purpose. The student will research and explore various opportunities to volunteer, even in simple ways, that can help others in need and improve student health and happiness.

**Prerequisite:** Career and Community Studies major, Career and Community Studies–College Preparation, or Career and Community Studies–Employment Readiness major.

**Schedule Type:** Laboratory, Lecture, Combined Lecture and Lab

**Contact Hours:** 1 lecture, 6 lab

**Grade Mode:** Standard Letter

**CCS 00196 FRESHMAN INDIVIDUAL STUDY 1-3 Credit Hours**

(Repeatable for credit) Independent Study is a student-initiated experience in order to pursue an area of career interest not covered by a regular course offering; with the approval and guidance of a Career and Community Studies faculty member.

**Prerequisite:** Career and Community Studies, Career Community Studies–College Preparation, Career Community Studies–Employment Readiness majors.

**Schedule Type:** Individual Investigation

**Contact Hours:** 3-9 other

**Grade Mode:** Standard Letter-IP

**CCS 00205 CAREER EXPLORATION I 3 Credit Hours**

This course promotes assessment of specific career skills, interests, and needs, and how these relate to future life work. The student develops career awareness through evaluation of past experiences that have influenced career development and uses person-centered planning tools to develop and implement meaningful future career goals.

**Prerequisite:** Career and Community Studies major, Career and Community Studies–College Preparation, or Career and Community Studies–Employment Readiness major.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CCS 00210 ACADEMIC SUCCESS I 3 Credit Hours**

This introductory course is designed to teach many different literacy (e.g. reading, writing, speaking, and technology) skills that college students must develop in order to have academic and social success. The student will practice to communicate effectively and identify resources available in order to complete coursework assignments and projects.

**Prerequisite:** Career and Community Studies major, Career and Community Studies–College Preparation, or Career and Community Studies–Employment Readiness major.

**Schedule Type:** Laboratory, Lecture, Combined Lecture and Lab

**Contact Hours:** 1 lecture, 6 lab

**Grade Mode:** Standard Letter

**CCS 00215 INTRODUCTION TO COMMUNICATION SKILLS 3 Credit Hours**

This course explores communication theories and practices in group, interpersonal, and public contexts. Students explore the processes of active listening, developing effective communication skills, and the processes of organizing thoughts into clear messages so that others may more easily understand.

**Prerequisite:** Career and Community Studies, Career Community Studies–College Preparation, Career Community Studies–Employment Readiness majors.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Satisfactory/Unsatisfactory

**CCS 00225 FINANCIAL LITERACY III 1 Credit Hour**

This course provides the student with real-life situations to practice basic math skills used in budgeting and managing money wisely. The student recognizes the hidden costs associated with many of the essentials and conveniences they use daily.

**Prerequisite:** Career and Community Studies, Career Community Studies–College Preparation, Career Community Studies–Employment Readiness majors.

**Schedule Type:** Lecture

**Contact Hours:** 1 lecture

**Grade Mode:** Standard Letter

**CCS 00235 HEALTH AND WELLNESS III: INJURY PREVENTION 3 Credit Hours**

The focus of the course is to understand behaviors and issues related to personal injury and safety.

**Prerequisite:** Career and Community Studies, Career Community Studies–College Preparation, Career Community Studies–Employment Readiness majors.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CCS 00292 SOPHOMORE PRACTICUM I 3 Credit Hours**

(Repeatable for credit) This course provides the student with the opportunity to develop crucial work skills that are important in any employment positions. The student gains self-awareness of their work skills and habits and receives support as they prepare for the career that they ultimately desire.

**Prerequisite:** Career and Community Studies, Career Community Studies–College Preparation, Career Community Studies–Employment Readiness majors; and special approval.

**Schedule Type:** Practical Experience

**Contact Hours:** 9 other

**Grade Mode:** Standard Letter-IP

**CCS 00296 SOPHOMORE INDEPENDENT STUDY 1-3 Credit Hours**

(Repeatable for credit) Independent Study is a student-initiated experience in order to pursue an area of career interest not covered by a regular course offering, with the approval and guidance of a Career and Community Studies faculty member.

**Prerequisite:** Career and Community Studies, Career Community Studies–College Preparation, Career Community Studies–Employment Readiness majors.

**Schedule Type:** Individual Investigation

**Contact Hours:** 3-9 other

**Grade Mode:** Standard Letter-IP

**CCS 00305 CAREER EXPLORATION II 3 Credit Hours**

The purpose of this course is to help the student to narrow career possibilities and to identify the career of their choice. The student conducts research into an identified career field in order to list the necessary skills, to investigate local occupational opportunities, and to specify any training experiences that are available to advance knowledge and skills in this area.

**Prerequisite:** CCS 00205; and Career and Community Studies major, Career and Community Studies-College Preparation, or Career and Community Studies-Employment Readiness major.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CCS 00310 ACADEMIC SUCCESS II 3 Credit Hours**

This course supports the student as they advance skills in learning strategies, critical thinking, problem-solving, and study skills; and as they apply skills to coursework that prepares for a specific career interest. The student practices effective communication through reading, writing, and speaking while completing assignments and projects.

**Prerequisite:** Career and Community Studies major, Career and Community Studies-College Preparation, or Career and Community Studies-Employment Readiness major.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 1 lecture, 6 lab

**Grade Mode:** Standard Letter

**CCS 00325 FINANCIAL LITERACY IV 1 Credit Hour**

The student will understand how credit card debt, personal loans for housing, leisure, or transportation needs, and investing in savings and bonds can have an effect on the lifestyle that one hopes to achieve. Making wise financial decisions and planning is important when becoming an independent adult.

**Prerequisite:** Career and Community Studies, Career Community Studies–College Preparation, Career Community Studies–Employment Readiness majors.

**Schedule Type:** Lecture

**Contact Hours:** 1 lecture

**Grade Mode:** Standard Letter

**CCS 00335 HEALTH AND WELLNESS IV: HEALTHY LIVING AND SUBSTANCE ABUSE 3 Credit Hours**

This course will support behavior that encourages students to make responsible choices for lifelong health and wellness through instruction and active participation. Topics to be discussed include personal and social skills, nutrition and fitness, developing coping skills, sexuality education, substance use, and injury prevention.

**Prerequisite:** Career and Community Studies, Career Community Studies–College Preparation, Career Community Studies–Employment Readiness majors.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CCS 00392 SOPHOMORE PRACTICUM II 3 Credit Hours**

(Repeatable for credit) This course provides the student with additional opportunities to develop crucial work skills that are important in all employment positions. The student expands self-awareness of their work skills and habits and receives support as they prepare for the career that they ultimately desire.

**Prerequisite:** Career and Community Studies, Career Community Studies–College Preparation, Career Community Studies–Employment Readiness majors.

**Schedule Type:** Practical Experience

**Contact Hours:** 9 other

**Grade Mode:** Standard Letter-IP

**CCS 00395 SPECIAL TOPICS 1-4 Credit Hours**

(Repeatable for credit) Course topic will vary depending upon individual career choices. The student will participate in courses with like-minded peers in order to gain knowledge and skills in the career field of interest. Students must get approval from their academic advisor and course faculty prior to taking this course.

**Prerequisite:** Career and Community Studies, Career Community Studies–College Preparation, Career Community Studies–Employment Readiness majors; and special approval.

**Schedule Type:** Laboratory, Lecture

**Contact Hours:** 1-4 lecture, 2-8 lab

**Grade Mode:** Satisfactory/Unsatisfactory

**CCS 00396 JUNIOR INDEPENDENT STUDY 1-3 Credit Hours**

(Repeatable for credit) Independent Study is a student-initiated experience in order to pursue an area of career interest not covered by a regular course offering, with the approval and guidance of a Career and Community Studies faculty member.

**Prerequisite:** Career and Community Studies, Career Community Studies–College Preparation, Career Community Studies–Employment Readiness majors; and special approval.

**Schedule Type:** Individual Investigation

**Contact Hours:** 3-9 other

**Grade Mode:** Standard Letter-IP

**CCS 00405 CAREER PREPARATION I: CHOOSING YOUR CAREER 3 Credit Hours**

This course prepares the student for entering the work force by creating a resume, practicing interviewing skills, and by developing networks of people who can help them to achieve their career goals. The student will participate in job shadowing opportunities in order to better understand the expectations and requirements of the career field of interest.

**Prerequisite:** Career and Community Studies, Career Community Studies–College Preparation, Career Community Studies–Employment Readiness majors.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CCS 00420 ACADEMIC SUPPORT I 3 Credit Hours**

This course provides support to the student as they advance in goal setting and attainment skills. The student is supported as they increase critical thinking skills and monitors academic progress; and as they complete course assignments while working towards becoming an organized and self-determined student.

**Prerequisite:** Career and Community Studies, Career Community Studies–College Preparation, Career Community Studies–Employment Readiness majors.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CCS 00492 JUNIOR PRACTICUM III 4 Credit Hours**

(Repeatable for credit) Once a career has been initially identified, it is important early on for the student to be exposed to the requirements and environments of that field. Students will be provided opportunities to perform work relevant to their career choice. Evaluating the fit helps to ensure that they have chosen wisely. In-progress (IP) mark permissible.

**Prerequisite:** Career and Community Studies, Career Community Studies–College Preparation, Career Community Studies–Employment Readiness majors.

**Schedule Type:** Practical Experience

**Contact Hours:** 12 other

**Grade Mode:** Standard Letter-IP

**CCS 00495 SPECIAL TOPICS 1-4 Credit Hours**

(Repeatable for credit) Course topic will vary depending upon individual career choices. The student will participate in courses with like-minded peers in order to gain knowledge and skills in the career field of interest. Students must get approval from their academic advisor and course faculty prior to taking this course.

**Prerequisite:** Career and Community Studies, Career Community Studies–College Preparation, Career Community Studies–Employment Readiness majors; and special approval.

**Schedule Type:** Laboratory, Lecture

**Contact Hours:** 1-4 lecture, 1-4 lab

**Grade Mode:** Satisfactory/Unsatisfactory

**CCS 00496 SENIOR INDEPENDENT STUDY 1-3 Credit Hours**

Independent Study is a student-initiated experience in order to pursue an area of career interest not covered by a regular course offering, with the approval and guidance of a Career and Community Studies faculty member.

**Prerequisite:** Career and Community Studies, Career Community Studies–College Preparation, Career Community Studies–Employment Readiness majors.

**Schedule Type:** Individual Investigation

**Contact Hours:** 3-9 other

**Grade Mode:** Standard Letter-IP

**CCS 00505 CAREER PREPARATION II 3 Credit Hours**

This course is designed to continue to prepare the student for entering into the work force by expanding interview skills and by locating and utilizing resources such as state employment and vocational rehabilitation services to promote career decisions.

**Prerequisite:** CCS 00405; and Career and Community Studies, Career Community Studies–College Preparation, Career Community Studies–Employment Readiness majors.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CCS 00520 ACADEMIC SUPPORT II 3 Credit Hours**

This sequenced course continues to provide support to the student as they advance in goal setting and attainment skills. The student is supported as they increase critical thinking skills, monitors progress, and receives support as they complete course assignments pertaining to career goals while working towards becoming an organized and self-determined student.

**Prerequisite:** CCS 00420; and Career and Community Studies, Career Community Studies–College Preparation, Career Community Studies–Employment Readiness majors.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CCS 00592 JUNIOR PRACTICUM IV 4 Credit Hours**

(Repeatable for credit) This course provides additional opportunities for the student to be exposed to the requirements and environments of the career field to ensure the student's commitment to the career choice. Additionally, the student continues to develop appropriate work habits and behaviors while obtaining specific occupation skills.

**Prerequisite:** Career and Community Studies, Career Community Studies–College Preparation, Career Community Studies–Employment Readiness majors; and special approval.

**Schedule Type:** Practical Experience

**Contact Hours:** 12 other

**Grade Mode:** Standard Letter-IP

**CCS 00595 SPECIAL TOPICS 1-4 Credit Hours**

(Repeatable for credit) Course topic will vary depending upon individual career choices. The student will participate in courses with like-minded peers in order to gain knowledge and skills in the career field of interest. Students must get approval from their academic advisor and course faculty prior to taking this course.

**Prerequisite:** Career and Community Studies, Career Community Studies–College Preparation, Career Community Studies–Employment Readiness majors; and special approval.

**Schedule Type:** Laboratory, Lecture

**Contact Hours:** 2-8 lab

**Grade Mode:** Satisfactory/Unsatisfactory

**CCS 00605 COMMUNITY LIFE I: PREPARE FOR EMPLOYMENT AFTER COLLEGE 1 Credit Hour**

This course guides the student as they prepare for employment by completing on-line employment recognized certifications that apply to career interest as they plan for transitioning back to the community in which they will work after graduation. The student considers personal strengths, preferences, interests, and needs as they relate to career specific qualifications.

**Prerequisite:** Career and Community Studies major, Career Community Studies-College Preparation major, or Career Community Studies-Employment Readiness major.

**Corequisite:** CCS 00606.

**Schedule Type:** Lecture

**Contact Hours:** 1 lecture

**Grade Mode:** Standard Letter

**CCS 00606 COMMUNITY LIFE I LABORATORY 3 Credit Hours**

Using the Personal Profile created in a coexisting course, the student will complete on-line employment recognized certifications in preparation for their identified career field.

**Prerequisite:** Career and Community Studies major, Career and Community Studies-College Preparation, or Career and Community Studies-Employment Readiness major.

**Corequisite:** CCS 00605.

**Schedule Type:** Laboratory

**Contact Hours:** 9 lab

**Grade Mode:** Standard Letter

**CCS 00692 SENIOR INTERNSHIP I 1-12 Credit Hours**

(Repeatable for credit) Internship courses are credit-bearing work experiences that are integrated with academic instruction and relate to an individual student's career goals. The internship occurs in a natural community setting and provides an environment and context to integrate specific career knowledge, skills, and professional behaviors.

**Prerequisite:** Career and Community Studies, Career Community Studies-College Preparation, Career Community Studies-Employment Readiness majors; and special approval.

**Schedule Type:** Practical Experience

**Contact Hours:** 3-36 other

**Grade Mode:** Standard Letter-IP

**CCS 00695 SPECIAL TOPICS 1-4 Credit Hours**

(Repeatable for credit) Course topic will vary depending upon individual career choices. The student will participate in courses with like-minded peers in order to gain knowledge and skills in the career field of interest. Students must get approval from their academic advisor and course faculty prior to taking this course.

**Prerequisite:** Career and Community Studies, Career Community Studies-College Preparation, Career Community Studies-Employment Readiness majors.

**Schedule Type:** Laboratory, Lecture

**Contact Hours:** 1-4 lecture, 2-8 lab

**Grade Mode:** Satisfactory/Unsatisfactory

**CCS 00705 COMMUNITY LIFE II: MAKING COMMUNITY CONNECTIONS 1 Credit Hour**

In this class, the student will discuss and design a plan to develop two valuable resources to aid in the transition back to their community. One is a portfolio that contains cumulative projects that will serve as a resource guide. The other is a Person-Centered Plan that identifies past, present, and future skill and goal development.

**Prerequisite:** Career and Community Studies major, Career and Community Studies-College Preparation, or Career and Community Studies-Employment Readiness major.

**Corequisite:** CCS 00705.

**Schedule Type:** Lecture

**Contact Hours:** 1 lecture

**Grade Mode:** Standard Letter

**CCS 00706 COMMUNITY LIFE II LABORATORY 3 Credit Hours**

The student will create a portfolio of documents completed throughout the four year college experience that showcase accomplishments in domains of Wellness, Community Inclusion, and Career Preparation. The student will also create a Person-Centered Plan that is useful to achieving life goals after graduation.

**Prerequisite:** Career and Community Studies major, Career and Community Studies-College Preparation, or Career and Community Studies-Employment Readiness major.

**Corequisite:** CCS 00705.

**Schedule Type:** Laboratory

**Contact Hours:** 9 lab

**Grade Mode:** Standard Letter

**CCS 00792 SENIOR INTERNSHIP II 1-12 Credit Hours**

(Repeatable for credit) Internship courses are credit-bearing work experiences that are integrated with academic instruction and relate to an individual student's career goals. The internship occurs in a natural community setting and provides an environment and context to integrate specific career knowledge, skills, and professional behaviors.

**Prerequisite:** Career and Community Studies, Career Community Studies-College Preparation, Career Community Studies-Employment Readiness majors; and special approval.

**Schedule Type:** Practical Experience

**Contact Hours:** 3-36 other

**Grade Mode:** Standard Letter-IP

**CCS 00795 SPECIAL TOPICS 1-4 Credit Hours**

(Repeatable for credit) Course topic will vary depending upon individual career choices. The student will participate in courses with like-minded peers in order to gain knowledge and skills in the career field of interest. Students must get approval from their academic advisor and course faculty prior to taking this course.

**Prerequisite:** Career and Community Studies, Career Community Studies-College Preparation, Career Community Studies-Employment Readiness majors; and special approval.

**Schedule Type:** Laboratory, Lecture

**Contact Hours:** 1-4 lecture, 2-8 lab

**Grade Mode:** Satisfactory/Unsatisfactory

## Counselor Education and Supervision (CES)

### CES 20092 FIELD EXPERIENCE I: MIDDLE CHILDHOOD (ELR) 1 Credit Hour

(Repeatable for credit) Course augments from an experiential perspective knowledge of early adolescence period of development. Placement in school settings (30 hrs.).

**Corequisite:** HDFS 24013.

**Schedule Type:** Field Experience

**Contact Hours:** 3 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**Attributes:** Experiential Learning Requirement

### CES 34650 PRACTICES AND THEORIES IN ADDICTIONS COUNSELING 3 Credit Hours

Review of historical and contemporary theories and models of addiction (e.g., disease, behavioral, public health, family systems), as well as recommended practices in addictions counseling. Pharmacology and sociocultural factors emphasized. Implications for prevention, treatment, and policy are considered.

**Prerequisite:** CES 37662.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

### CES 34654 EVIDENCE-BASED APPROACHES IN ADDICTIONS COUNSELING 3 Credit Hours

Intensive study of a select number of evidence-based or empirically-supported approaches in addictions counseling, including cognitive-behavioral and systems and family approaches. Didactic and experiential training methods used to promote practice with fidelity.

**Prerequisite:** CES 37665.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

### CES 37662 INTRODUCTION TO ADDICTIONS COUNSELING 3 Credit Hours

Introduction to fundamental concepts and recommended practices in addictions counseling today, including pharmacology, screening and assessment, facilitating individual and group services, and ethical and legal considerations. Meets minimum training requirements for State of Ohio credentialing eligibility as a chemical dependency counselor assistant.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

### CES 37665 PLANNING CARE IN ADDICTIONS COUNSELING 3 Credit Hours

Assessment and diagnosis of substance use disorders, and formulation of comprehensive and individualized care plans. Consideration of client dimensions and appropriate care levels, and emphasis on collaborative and coordinated care.

**Prerequisite:** CES 34650.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

### CES 37668 INTRODUCTION TO MOTIVATIONAL INTERVIEWING 3 Credit Hours

Introduction to motivational interviewing (MI), a strengths-based and evidence-based practice designed to facilitate the self-directed and beneficial change of others in a variety of health behaviors. Practice of MI-consistent skills with immediate feedback, use of MI coding scheme to evaluate MI-consistency, and emphasis on continuous learning and skill-building.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

### CES 37692 ADDICTIONS COUNSELING PRACTICUM (ELR) 4-9 Credit Hours

(Repeatable for credit) Field-based experiential training and supervised practice of addictions counseling with individual and group clients. Practicum site must be approved by CES program. Individual supervision must be supplied onsite (at location of practicum) by licensed behavioral health care provider approved by CES program. Six or seven class sessions per academic term that focus on theory- and training-to-practice implementation, professional role development, ensuring ethical practice, and self-care. Students are required to complete Bureau of Criminal Investigation and Identification (BCII) and Federal Bureau of Investigation (FBI) background checks and submit results to authorized personnel at practicum site prior to first day of academic term in which practicum will take place.

**Prerequisite:** CES 34654 or CES 37665.

**Schedule Type:** Lecture, Practical Experience

**Contact Hours:** 1 lecture, 21-56 other

**Grade Mode:** Standard Letter-IP

**Attributes:** Experiential Learning Requirement

### CES 37800 SMALL GROUP PROCESS 2 Credit Hours

(Cross-listed with HED 34060) Students learn to understand the dynamics of problem-solving groups and how to become effective leaders and members. Topics include climate, goals, decision making, communication, leadership, membership. Experience-based learning combined with conceptualizing.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

### CES 40093 VARIABLE TITLE WORKSHOP IN COUNSELOR EDUCATION AND SUPERVISION 1-4 Credit Hours

(Repeatable for a maximum of 6 credit hours) Topics of special interest to students who desire to increase their knowledge in counseling and related areas. Kent faculty and experts from other institutions and agencies. Topics will be announced in the schedule of classes booklet.

**Prerequisite:** None.

**Schedule Type:** Workshop

**Contact Hours:** 1-4 other

**Grade Mode:** Satisfactory/Unsatisfactory



**CES 44084 BEHAVIORAL SCIENCE IN HEALTH PROFESSIONS 1-3 Credit Hours**

(Repeatable for a maximum of 12 hours) Behavioral science perspective on individual and social issues affecting medical care delivery. Individually arranged. May include field projects participation in health related investigations and presentations and personal development programs.

**Prerequisite:** Special approval.

**Schedule Type:** Lecture

**Contact Hours:** 1-3 lecture

**Grade Mode:** Standard Letter

**CES 50093 VARIABLE TITLE WORKSHOP IN COUNSELOR EDUCATION AND SUPERVISION 1-4 Credit Hours**

(Repeatable for credit) (Slashed with CES 70093) Workshops and training laboratories in various aspects of counseling, guidance and personnel services for counselors, supervisors, administrators and paraprofessionals. Prospective enrollees not currently admitted to graduate school may obtain special admission for graduate credit in a workshop. Topics are announced in brochures of college of continuing studies. Limit of 6 hours with adviser's permission toward any degree program.

**Prerequisite:** Graduate standing.

**Schedule Type:** Workshop

**Contact Hours:** 1-4 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**CES 60193 VARIABLE TITLE WORKSHOP IN CLINICAL REHABILITATION COUNSELING 1-4 Credit Hours**

(Repeatable for credit)(Slashed with CES 70193) Variable topic workshop designed to respond to emerging or specialized needs in clinical rehabilitation counseling.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Workshop

**Contact Hours:** 1-4 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**CES 60199 THESIS I 2-6 Credit Hours**

(Repeatable for credit) Thesis students must register for a total of 6 hours, 2 to 6 hours in a single semester distributed over several semesters if desired.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Masters Thesis

**Contact Hours:** 2-6 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**CES 60299 THESIS II 2 Credit Hours**

(Repeatable for credit) Thesis students must continue registration each semester until all degree requirements are met.

**Prerequisite:** CES 60199; and graduate standing.

**Schedule Type:** Masters Thesis

**Contact Hours:** 2 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**CES 64084 BEHAVIORAL SCIENCE IN THE HEALTH PROFESSIONS 1-3 Credit Hours**

Behavioral science perspective on individual and social issues that affect medical care delivery. Individually arranged.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 1-3 lecture

**Grade Mode:** Standard Letter-IP

**CES 65511 RESEARCH IN COUNSELING 3 Credit Hours**

Introduction to purposes and practice of qualitative and quantitative research related to counseling. There will be emphasis on elements of conducting research and using products of research to support and enhance practice. Authentic examples from counseling will be used as illustration.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CES 67492 PRACTICUM I: CLINICAL MENTAL HEALTH COUNSELING 3 Credit Hours**

Students begin supervised practice of counseling with clients, primarily in The Counseling Center. Individual supervision and seminar discussion are used for the development of counseling skills, strategies and professional role.

**Prerequisite:** CES 67530 and CES 67531 and CES 67580 and CES 67663 and CES 67820 and CES 68126; and Clinical Mental Health Counseling major; and graduate standing.

**Schedule Type:** Practical Experience

**Contact Hours:** 16 other

**Grade Mode:** Standard Letter

**CES 67530 COUNSELING THEORIES 3 Credit Hours**

(Slashed with CES 77530) A survey of counseling practice that examines the nature of counseling process and relationships as described from major theoretical perspectives.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CES 67531 COUNSELING SKILLS AND TECHNIQUES 3 Credit Hours**

(Slashed with CES 77531) Didactic and experiential training in basic interviewing and counseling techniques prepares the student for practicum through role playing, videotaped feedback and simulation.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CES 67580 MULTICULTURAL COUNSELING 3 Credit Hours**

(Slashed with CES 77580) Seminar focused on sensitivities needed to work effectively with diverse clients. Consideration given to racism, oppression, poverty, ageism, gender, and relational affinity.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CES 67591 SEMINAR IN COUNSELOR EDUCATION AND SUPERVISION 1-3 Credit Hours**

(Repeatable for credit) Variable topic seminars considering problems, research and current practices for counselors and personnel workers. Topic to be announced in schedule of classes booklet.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Seminar

**Contact Hours:** 1-3 other

**Grade Mode:** Standard Letter

**CES 67592 PRACTICUM II: CLINICAL MENTAL HEALTH COUNSELING**  
**3 Credit Hours**

(Repeatable for credit) (Slashed with CES 77592) Involves individual counseling and group work with appropriate populations. Caseload geared toward preparation for internship.

**Prerequisite:** CES 67492 and CES 67628 or 77628; and graduate standing.

**Schedule Type:** Practical Experience

**Contact Hours:** 16 other

**Grade Mode:** Standard Letter

**CES 67595 SPECIAL TOPICS IN COUNSELOR EDUCATION AND SUPERVISION**  
**1-3 Credit Hours**

(Repeatable for credit) (Slashed with CES 87595) Presentation of topics of special interest to students in counselor education and supervision. Offered irregularly. Topics will be announced in schedule of classes booklet.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 1-3 lecture

**Grade Mode:** Standard Letter

**CES 67596 INDIVIDUAL INVESTIGATION IN COUNSELOR EDUCATION AND SUPERVISION**  
**1-3 Credit Hours**

(Repeatable for credit) (Slashed with CES 87596) Student investigates one or more topics in counseling under supervision. Review selected literature beyond normal course coverage. Arrangements with instructor must be made prior to registration.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Individual Investigation

**Contact Hours:** 1-3 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**CES 67628 DIAGNOSIS IN COUNSELING**  
**3 Credit Hours**

(Slashed with CHDS 77628) To develop diagnostic skills in interviewing and use of appropriate nosology in counseling diagnosis.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CES 67662 FOUNDATIONS OF ADDICTIONS COUNSELING**  
**3 Credit Hours**

(Slashed with CES 77662) Introduction to fundamental concepts and recommended practices in addictions counseling, including pharmacology, screening and assessment, facilitating individual and group services, and ethical and legal considerations. Meets minimum training requirements for State of Ohio credentialing eligibility as a chemical dependency counselor assistant.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CES 67663 ORIENTATION AND ETHICS: CLINICAL MENTAL HEALTH COUNSELING**  
**3 Credit Hours**

(Slashed with CES 77663) Attention is given to the identity, ethics, professional standards and organizations, and employment settings of the clinical mental health counselor. Models of problem definition, administrative structure and service delivery are explored.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CES 67664 THEORIES AND PRACTICES IN ADDICTIONS COUNSELING**  
**3 Credit Hours**

(Slashed with CES 77664) Review of historical and contemporary theories and models of addiction (e.g., disease, behavioral, public health, family systems), as well as recommended practices in addictions counseling. Pharmacology and sociocultural factors emphasized. Implications for prevention, treatment, and policy are considered.

**Prerequisite:** CES 67662; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CES 67665 TREATMENT PLANNING IN ADDICTIONS COUNSELING**  
**3 Credit Hours**

(Slashed with CES 77665) Assessment and diagnosis of substance use disorders, and formulation of comprehensive and individualized care plans. Consideration of client dimensions and appropriate care levels, and emphasis on collaborative, coordinated, and ethical care.

**Prerequisite:** CES 67664; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CES 67666 EVIDENCE-BASED PRACTICES IN ADDICTIONS COUNSELING**  
**3 Credit Hours**

(Slashed with CES 77666) Intensive study of a select number of evidence-based practices (EBPs) in addictions counseling for individuals, groups, and families, including cognitive-behavioral and systems and family approaches. Didactic and experiential training methods used to promote practice with fidelity.

**Prerequisite:** CES 67665; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CES 67668 MOTIVATIONAL INTERVIEWING**  
**3 Credit Hours**

(Slashed with CES 77668) Introduction to motivational interviewing (MI), a strengths-based evidence-based practice designed to facilitate the self-directed and beneficial change of others in a variety of health behaviors. Practice of MI-consistent skills with immediate feedback, use of MI coding scheme to evaluate MI-consistency, and emphasis on continuous learning and skill-building.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CES 67692 PRACTICUM IN ADDICTIONS COUNSELING 3-6 Credit Hours**

(Slashed with CES 77692) Field-based experiential training and supervised practice of addictions counseling with individual and group clients. Practicum site must be approved by CES program. Individual supervision must be supplied onsite (at location of practicum) by licensed behavioral health care provider approved by CES program. Six to seven class sessions per academic term that focus on theory- and training-to-practice implementation, professional role development, ensuring ethical practice, and counselor self-care. Students are required to complete Bureau of Criminal Investigation and Identification (BCII) and Federal Bureau of Investigation (FBI) background checks and submit results to authorized personnel at practicum site prior to first day of academic term in which practicum will take place.

**Prerequisite:** CES 67665 or CES 67666; and graduate standing.

**Schedule Type:** Lecture, Practical Experience

**Contact Hours:** 1 lecture, 14-35 other

**Grade Mode:** Standard Letter-IP

**CES 67695 SPECIAL TOPICS IN CLINICAL MENTAL HEALTH COUNSELING 1-3 Credit Hours**

(Repeatable for credit) (Slashed with CES 77695) Presentations of special interest to students. Offered irregularly. Topics will be announced in schedule of classes booklet.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 1-3 lecture

**Grade Mode:** Standard Letter

**CES 67698 INDIVIDUAL RESEARCH IN CLINICAL MENTAL HEALTH COUNSELING 1-9 Credit Hours**

(Repeatable for credit) Student pursues research project on selected aspect of clinical mental health counseling under supervision of instructor. Arrangements with instructor must be made prior to registration. Credit hours to be fixed at registration time.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Research

**Contact Hours:** 1-9 other

**Grade Mode:** Satisfactory/Unsatisfactory

**CES 67712 ORIENTATION AND ETHICS: CLINICAL REHABILITATION COUNSELING 3 Credit Hours**

(Slashed with CES 77712) Introductory course surveys philosophy, history and legislation in rehabilitation, which is defined as a process, social movement and public mandate. Particular emphasis is given to the role and function of the rehabilitation counselor in the private and public sectors.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CES 67723 MEDICAL INFORMATION FOR CLINICAL REHABILITATION COUNSELORS 3 Credit Hours**

(Slashed with CES 77723) Study of the physical impact of disease or injury on individuals; available medical and restorative resources skills in interpreting medical reports and rehabilitation planning.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CES 67725 PSYCHOSOCIAL IMPACT OF DISABILITY 3 Credit Hours**  
(Slashed with CES 77725) Introduction to major concepts in rehabilitation regarding the impact of disability on the individual, the family and the community. Normalization stigma and adjustment to loss emphasized.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CES 67732 OCCUPATIONAL ASPECTS OF DISABILITY 3 Credit Hours**  
(Slashed with CES 77732) An introduction to a wide range of occupational and vocational analysis through job analysis, job seeking, job placement, job restructuring, work adjustment and independent living approaches.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CES 67776 RESEARCH IN CLINICAL REHABILITATION COUNSELING 3 Credit Hours**

(Slashed with CES 77776) Survey of the research literature in disabilities. Guidelines for evaluating and implementing research findings. Course acquaints students with current research. Evaluation of design statistical analysis and conclusions.

**Prerequisite:** Graduate standing.

**Schedule Type:** Seminar

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**CES 67792 INTERNSHIP I: CLINICAL MENTAL HEALTH COUNSELING 3 Credit Hours**

(Repeatable for credit) Assignment to a mental health agency, private practice, etc. for extensive and intensive applications of clinical mental health counseling. The scope of practice for this internship is diagnosis and treatment of mental and emotional disorders.

**Prerequisite:** Clinical Mental Health Counseling major; and graduate standing; and special approval.

**Schedule Type:** Lecture, Practical Experience

**Contact Hours:** 3 lecture, 20 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**CES 67795 SPECIAL TOPICS IN CLINICAL REHABILITATION COUNSELING 1-3 Credit Hours**

(Repeatable for credit)(Slashed with CES 77795) Presentation of special interest to students. Topics vary per course offering.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 1-3 lecture

**Grade Mode:** Standard Letter

**CES 67796 INDIVIDUAL INVESTIGATION IN CLINICAL REHABILITATION COUNSELING 1-3 Credit Hours**

(Repeatable for credit) Independent reading and/or research directed by a graduate faculty member.

**Prerequisite:** Graduate standing.

**Schedule Type:** Individual Investigation

**Contact Hours:** 3-9 other

**Grade Mode:** Standard Letter-IP

**CES 67798 INDIVIDUAL RESEARCH IN CLINICAL REHABILITATION COUNSELING 1-6 Credit Hours**

(Repeatable for credit) Research project on an aspect of rehabilitation under supervision of an instructor. Students must make arrangements with the instructor prior to registration.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Research

**Contact Hours:** 3-18 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**CES 67820 GROUP WORK: THEORY AND TECHNIQUES 3 Credit Hours**

(Slashed with CES 77820) This is an experiential and didactic course designed to provide both an overview of groups and a basic group experience. Involvement in a group is part of this course as is practice of group leadership skills.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CES 67858 SEMINAR: GROUP COUNSELING 2 Credit Hours**

(Slashed with CES 77858) Study and experience of various theoretical and methodological and practical approaches to group counseling. Includes experience as counselor and participant in peer counseling group.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Seminar

**Contact Hours:** 2 other

**Grade Mode:** Standard Letter

**CES 67892 INTERNSHIP II: CLINICAL MENTAL HEALTH COUNSELING 3 Credit Hours**

(Repeatable for credit) Assignment to a mental health agency, private practice, etc. for extensive and intensive applications of clinical mental health counseling. The scope of practice for this internship is diagnosis and treatment of mental and emotional disorders.

**Prerequisite:** Clinical Mental Health Counseling major; and graduate standing; and special approval.

**Schedule Type:** Lecture, Practical Experience

**Contact Hours:** 3 lecture, 20 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**CES 68011 FOUNDATIONS OF SCHOOL COUNSELING 3 Credit Hours**

(Slashed with CES 78011) Foundation course in school counseling. Focuses on the professional identity of school counselors and other pupil service personnel and on the development of comprehensive school counseling programs.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CES 68066 COUNSELING ADOLESCENTS 3 Credit Hours**

(Slashed with CES 78066) A didactic and experiential seminar focusing on adolescents frequently referred to counselors. Counseling procedures, treatment plans and referral procedures for youth will be covered.

**Prerequisite:** CES 67530 and 67531; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CES 68067 COUNSELING CHILDREN 3 Credit Hours**

(Slashed with CES 78067) Seminar focusing on intra and interpersonal dynamics of children referred for treatment to counselors. Designed to supplement individual and group counseling skills with play media.

**Prerequisite:** CES 67530 or 77530 and 67531 or 77531; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CES 68068 SCHOOL COUNSELING PROGRAM MANAGEMENT AND LEADERSHIP 3 Credit Hours**

(Slashed with CES 78068) Focuses on the management, leadership and implementation of comprehensive school counseling program including developmental counseling approaches, management systems and outcome research.

**Prerequisite:** CES 68011; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CES 68069 ORIENTATION AND ETHICS: SCHOOL COUNSELING 3 Credit Hours**

(Slashed with CES 78069) Consideration given to issues that provide an orientation to school counseling. Examples of these issues include professional preparation standards, roles and functions of school counselors, and ethical standards and legal issues.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CES 68095 SPECIAL TOPICS IN SCHOOL COUNSELING 1-3 Credit Hours**

(Repeatable for credit) Presentations of special interest to students. Offered irregularly. Topics will be announced in schedule of classes booklet.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 1-3 lecture

**Grade Mode:** Standard Letter

**CES 68126 INTRODUCTION TO ASSESSMENT IN COUNSELING 3 Credit Hours**

(Slashed with CES 78126) Instruction and experience in utilizing observational, measurement and appraisal methods and instruments relevant to clinical mental health counseling and school counseling settings. Measurement theory and concepts related to the appraisal process are presented.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CES 68128 CLINICAL ASSESSMENT IN COUNSELING 3 Credit Hours**

(Slashed with CES 78128) Experience in selecting, administering and interpreting measures of personality and motivation. Primary attention will be placed on measures of psychopathology.

**Prerequisite:** CES 68126 and 67628; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CES 68130 PSYCHOPATHOLOGY FOR COUNSELORS 3 Credit Hours**  
(Slashed with CES 78130) This course covers the etiology and treatment of various disorders covered in the current DSM system. Assessment, treatment and psychopharmacological aspects of treatment are considered.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CES 68167 CASE CONCEPTUALIZATION AND TREATMENT PLANNING 3 Credit Hours**

(Slashed with CES 88167) Development of understanding of more in-depth and complex counseling processes, case conceptualization and treatment planning, and advanced skills for intervention. Didactic and role-playing methods will be used.

**Prerequisite:** CES 67628 and CES 67492; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CES 68168 ADVANCED COUNSELING THEORIES 3 Credit Hours**

(Repeatable twice for credit) (Slashed with CES 88168) Consideration in depth of major counseling theories, with special emphasis on comparative analysis. Original readings used.

**Prerequisite:** CES 67492 with a minimum S grade; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CES 68182 CAREER COUNSELING 3 Credit Hours**

(Slashed with CES 78182) The world of work, theories of career choice, techniques in career counseling. An introductory course in the career area for practitioners in education, helping services, human resources and personnel.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CES 68192 INTERNSHIP I: SCHOOL COUNSELING 3 Credit Hours**

(Repeatable for credit) Assignment to a school for extensive and intensive applications appropriate for school counseling. A focus on the implementation of advocacy, leadership, collaboration, and systemic change is highlighted. This course meets specific CACREP standards.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Lecture, Practical Experience

**Contact Hours:** 3 lecture, 20 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**CES 68284 SUPERVISION OF COUNSELING 3 Credit Hours**

(Repeatable twice for credit) (Slashed with CES 88284) Focuses on supervisory processes in terms of theoretical perspectives and practices of supervision. Reviews relevant literature related to the roles, functions and settings of clinical supervisor. Includes supervisory experiences.

**Prerequisite:** CES 67592 or 77592 with a minimum S grade; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CES 68292 INTERNSHIP II: SCHOOL COUNSELING 3 Credit Hours**

(Repeatable for credit) Assignment to a school for extensive and intensive applications appropriate for school counseling. A focus on the application of advocacy, leadership, collaboration and systemic change are highlighted in this course. This course meets specific CACREP standards.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Lecture, Practical Experience

**Contact Hours:** 2 lecture, 20 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**CES 68392 SCHOOL COUNSELING PRACTICUM 3 Credit Hours**

Students begin supervised practice of counseling with clients, primarily in a K-12 school. Direct observation, audio video recording, individual supervision, and seminar discussion are used for the development of counseling skills, strategies, and professional role. Students are required to complete Bureau of Criminal Investigation and Identification (BCII) and Federal Bureau of Investigation (FBI) background checks and submit the results to authorized personnel at their assigned school-agency before the first day of the semester in which the practicum will take place.

**Prerequisite:** CES 67530 and CES 67531 and CES 67820 and CES 68069; and graduate standing.

**Schedule Type:** Practical Experience

**Contact Hours:** 20 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**CES 68529 COUPLES THERAPY:THEORY AND TECHNIQUES 3 Credit Hours**

(Slashed with CES 78529) Study of selected couples therapy theories. Focus on concepts and techniques and their application in the therapeutic setting.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CES 68533 FAMILY THERAPY: THEORY AND TECHNIQUES 3 Credit Hours**

(Slashed with CES 78533) Explores systemic family therapy utilizing various philosophical orientations, theoretical concepts and techniques in a didactic experiential and applied atmosphere.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CES 68538 ADVANCED MULTICULTURAL COUNSELING 3 Credit Hours**

(Slashed with CES 78538) This course is designed to assist helping professionals in enhancing the knowledge and skill components of multicultural counseling. Cultural and multicultural counseling experiences with constructive feedback are provided.

**Prerequisite:** CES 67580 or CES 77580 and CES 67531 or CES 77531; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter



**CES 69192 PRACTICUM II: CLINICAL REHABILITATION COUNSELING 3 Credit Hours**

Supervised, controlled exposure to rehabilitation clients; examine alternative modes of intervention; group and individual feedback sessions using audio and videotape recordings.

**Prerequisite:** CES 67492 and CES 67628 and CES 67725; and graduate standing.

**Schedule Type:** Practical Experience

**Contact Hours:** 16 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**CES 69792 INTERNSHIP IN CLINICAL REHABILITATION COUNSELING 6 Credit Hours**

(Repeatable for credit) Assignment to rehabilitation agency for extensive and intensive applications appropriate for rehabilitation counseling, consulting and coordinating. Supervision of internships shared jointly by rehabilitation agency and university instructor.

**Prerequisite:** CES 69192; and graduate standing.

**Schedule Type:** Practical Experience

**Contact Hours:** 43 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**CES 70093 VARIABLE TITLE WORKSHOP IN COUNSELOR EDUCATION AND SUPERVISION 1-4 Credit Hours**

(Repeatable for credit) (Slashed with CES 50093) Workshops and training laboratories in various aspects of counseling, guidance and personnel services for counselors, supervisors, administrators and paraprofessionals. Prospective enrollees not currently admitted to graduate school may obtain special admission for graduate credit in a workshop. Topics are announced in brochures of College of Continuing Studies. Limit of 6 hours with adviser's permission toward any degree program.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Workshop

**Contact Hours:** 1-4 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**CES 70193 VARIABLE TITLE WORKSHOP IN CLINICAL REHABILITATION COUNSELING 1-4 Credit Hours**

(Repeatable for credit)(Slashed with CES 60193) Variable topic workshop designed to respond to emerging or specialized needs in clinical rehabilitation counseling.

**Prerequisite:** Doctoral standing; and special approval.

**Schedule Type:** Workshop

**Contact Hours:** 1-4 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**CES 77530 COUNSELING THEORIES 3 Credit Hours**

(Slashed with CES 67530) A survey of counseling practice that examines the nature of counseling process and relationships as described from major theoretical perspectives.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CES 77531 COUNSELING SKILLS AND TECHNIQUES 3 Credit Hours**

(Slashed with CES 67531) Didactic and experiential training in basic interviewing and counseling techniques prepares the student for practicum through role playing, videotaped feedback and simulation.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CES 77580 MULTICULTURAL COUNSELING 3 Credit Hours**

(Slashed with CES 67580) Seminar focused on sensitivities needed to work effectively with diverse clients. Consideration given to racism, oppression, poverty, ageism, gender and relational affinity.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CES 77584 WRITING FOR PROFESSIONAL PUBLICATIONS 3 Credit Hours**

Seminar experience designed to prepare professionals to publish research findings, conceptualizations and professional field experiences in refereed journals and books. Elements of grant writing also treated.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CES 77592 PRACTICUM II: CLINICAL MENTAL HEALTH COUNSELING 3 Credit Hours**

(Repeatable for credit) (Slashed with CES 67592) Involves individual counseling and group work with appropriate populations. Caseload geared toward preparation for internship. Controlled registration.

**Prerequisite:** CES 77628; and doctoral standing.

**Schedule Type:** Practical Experience

**Contact Hours:** 16 other

**Grade Mode:** Standard Letter

**CES 77628 DIAGNOSIS IN COUNSELING 3 Credit Hours**

(Slashed with CES 67628) To develop diagnostic skills in interviewing and use of appropriate nosology in counseling diagnosis.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CES 77662 FOUNDATIONS OF ADDICTIONS COUNSELING 3 Credit Hours**

(Slashed with CES 67662) Introduction to fundamental concepts and recommended practices in addictions counseling, including pharmacology, screening and assessment, facilitating individual and group services, and ethical and legal considerations. Meets minimum training requirements for State of Ohio credentialing eligibility as a chemical dependency counselor assistant.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CES 77663 ORIENTATION AND ETHICS: CLINICAL MENTAL HEALTH COUNSELING 3 Credit Hours**

(Slashed with CES 67663) Attention is given to the identity, ethics, professional standards and organizations and employment settings of the clinical mental health counselor. Models of problem definition, administrative structure and service delivery are explored.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CES 77664 THEORIES AND PRACTICES IN ADDICTIONS COUNSELING 3 Credit Hours**

(Slashed with CES 77664) Review of historical and contemporary theories and models of addiction (e.g., disease, behavioral, public health, family systems), as well as recommended practices in addictions counseling. Pharmacology and sociocultural factors emphasized. Implications for prevention, treatment, and policy are considered.

**Prerequisite:** CES 67662 or CES 77662; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CES 77665 TREATMENT PLANNING IN ADDICTIONS COUNSELING 3 Credit Hours**

(Slashed with CES 67665) Assessment and diagnosis of substance use disorders, and formulation of comprehensive and individualized care plans. Consideration of client dimensions and appropriate care levels, and emphasis on collaborative, coordinated, and ethical care.

**Prerequisite:** CES 67664 or CES 77664; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CES 77666 EVIDENCE-BASED PRACTICES IN ADDICTIONS COUNSELING 3 Credit Hours**

(Slashed with CES 67666) Intensive study of a select number of evidence-based practices (EBPs) in addictions counseling for individuals, groups, and families, including cognitive-behavioral and systems and family approaches. Didactic and experiential training methods used to promote practice with fidelity.

**Prerequisite:** CES 77665; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CES 77668 MOTIVATIONAL INTERVIEWING 3 Credit Hours**

(Slashed with CES 67668) Introduction to motivational interviewing (MI), a strengths-based evidence-based practice designed to facilitate the self-directed and beneficial change of others in a variety of health behaviors. Practice of MI-consistent skills with immediate feedback, use of MI coding scheme to evaluate MI-consistency, and emphasis on continuous learning and skill-building.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CES 77692 PRACTICUM IN ADDICTIONS COUNSELING 3-6 Credit Hours**

(Slashed with CES 67692) Field-based experiential training and supervised practice of addictions counseling with individual and group clients. Practicum site must be approved by CES program. Individual supervision must be supplied onsite (at location of practicum) by licensed behavioral health care provider approved by CES program. Six to seven class sessions per academic term that focus on theory- and training-to-practice implementation, professional role development, ensuring ethical practice, and counselor self-care. Students are required to complete Bureau of Criminal Investigation and Identification (BCII) and Federal Bureau of Investigation (FBI) background checks and submit results to authorized personnel at practicum site prior to first day of academic term in which practicum will take place.

**Prerequisite:** CES 67665 or CES 77665 or CES 67666 or CES 77666; and doctoral standing; and special approval.

**Schedule Type:** Lecture, Practical Experience

**Contact Hours:** 1 lecture, 14-35 other

**Grade Mode:** Standard Letter-IP

**CES 77695 SPECIAL TOPICS IN CLINICAL MENTAL HEALTH COUNSELING 1-3 Credit Hours**

(Repeatable for credit) (Slashed with CES 67695) Presentations of special interest to students. Offered irregularly. Topics will be announced in schedule of classes booklet.

**Prerequisite:** Doctoral standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 1-3 lecture

**Grade Mode:** Standard Letter

**CES 77712 ORIENTATION AND ETHICS: CLINICAL REHABILITATION COUNSELING 3 Credit Hours**

(Slashed with CES 67712) Introductory course surveys philosophy, history and legislation in rehabilitation, which is defined as a process, social movement and public mandate. Particular emphasis is given to the role and function of the rehabilitation counselor in the private and public sectors.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CES 77723 MEDICAL INFORMATION FOR CLINICAL REHABILITATION COUNSELORS 3 Credit Hours**

(Slashed with CES 67723) Study of the physical impact of disease or injury on individuals; available medical and restorative resources skills in interpreting medical reports and rehabilitation planning.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CES 77725 PSYCHOSOCIAL IMPACT OF DISABILITY 3 Credit Hours**

(Slashed with CES 67725) Introduction to major concepts in rehabilitation regarding the impact of disability on the individual, the family and the community. Normalization stigma and adjustment to loss emphasized.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CES 77732 OCCUPATIONAL ASPECTS OF DISABILITY 3 Credit Hours**  
(Slashed with CES 67732) An introduction to a wide range of occupational and vocational analysis through job analysis, job seeking, job placement, job restructuring, work adjustment and independent living approaches.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CES 77776 RESEARCH IN CLINICAL REHABILITATION COUNSELING 3 Credit Hours**

(Slashed with CES 67776) Survey of the research literature in disabilities. Guidelines for evaluating and implementing research findings. Course acquaints students with current research. Evaluation of design statistical analysis and conclusions.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Seminar

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**CES 77795 SPECIAL TOPICS IN CLINICAL REHABILITATION COUNSELING 1-3 Credit Hours**

(Repeatable for credit)(Slashed with CES 67795) Presentation of special interest to students. Topics vary per course offering.

**Prerequisite:** Doctoral standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 1-3 lecture

**Grade Mode:** Standard Letter

**CES 77796 INDIVIDUAL INVESTIGATION IN CLINICAL REHABILITATION COUNSELING 1-3 Credit Hours**

(Repeatable for credit) Independent reading and/or research directed by a graduate faculty member.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Individual Investigation

**Contact Hours:** 1-3 other

**Grade Mode:** Standard Letter-IP

**CES 77798 INDIVIDUAL RESEARCH IN CLINICAL REHABILITATION COUNSELING 1-6 Credit Hours**

(Repeatable for credit) Research project on an aspect of rehabilitation under supervision of an instructor. Students must make arrangements with the instructor prior to registration.

**Prerequisite:** Doctoral standing; and special approval.

**Schedule Type:** Research

**Contact Hours:** 3-18 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**CES 77820 GROUP WORK: THEORY AND TECHNIQUES 3 Credit Hours**

(Slashed with CES 67820) This is an experiential and didactic course designed to provide both an overview of groups and a basic group experience. Involvement in a group is part of this course as is practice of group leadership skills.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CES 77858 SEMINAR: GROUP COUNSELING 2 Credit Hours**

(Slashed with CES 67858) Study and experience of various theoretical and methodological and practical approaches to group counseling. Includes experience as counselor and participant in peer counseling group.

**Prerequisite:** Doctoral standing; and special approval.

**Schedule Type:** Seminar

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**CES 78011 FOUNDATIONS OF SCHOOL COUNSELING 3 Credit Hours**

(Slashed with CES 68011) Foundation course in school counseling. Focuses on the professional identity of school counselors and other pupil service personnel and on the development of comprehensive school counseling program.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CES 78066 COUNSELING ADOLESCENTS 3 Credit Hours**

(Slashed with CES 68066) A didactic and experiential seminar focusing on adolescents frequently referred to counselors. Counseling procedures, treatment plans and referral procedures for youth will be covered.

**Prerequisite:** CES 67530 or CES 77530 and CES 67531 or CES 77531; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CES 78067 COUNSELING CHILDREN 3 Credit Hours**

(Slashed with CES 68067) Seminar focusing on intra and interpersonal dynamics of children referred for treatment to counselors. Designed to supplement individual and group counseling skills with play media.

**Prerequisite:** CES 67530 or CES 77530 and CES 67531 or CES 77531; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CES 78068 SCHOOL COUNSELING PROGRAM MANAGEMENT AND LEADERSHIP 3 Credit Hours**

(Slashed with CES 68068) Focuses on the management, leadership and implementation of comprehensive school counseling program including developmental counseling approaches, management systems and outcome research.

**Prerequisite:** CES 68011 or CES 78011; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CES 78069 ORIENTATION AND ETHICS: SCHOOL COUNSELING 3 Credit Hours**

(Slashed with CES 68069) Consideration given to issues that provide an orientation to school counseling. Examples of these issues include professional preparation standards roles and functions of school counselors and ethical standards and legal issues.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CES 78126 INTRODUCTION TO ASSESSMENT IN COUNSELING 3 Credit Hours**

(Slashed with CES 68126) Instruction and experience in utilizing observational, measurement and appraisal methods and instruments relevant to clinical mental health counseling and school counseling settings. Measurement theory and concepts related to the appraisal process are presented.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CES 78128 CLINICAL ASSESSMENT IN COUNSELING 3 Credit Hours**

(Slashed with CES 68128) A laboratory experience in selecting, administering and interpreting measures of personality and motivation. Primary attention will be placed on measures of psychopathology.

**Prerequisite:** CES 68126 or CES 78126; and CES 67628 or CES 77628; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CES 78130 PSYCHOPATHOLOGY FOR COUNSELORS 3 Credit Hours**

(Slashed with CES 68130) This course covers the etiology and treatment of various disorders covered in the current DSM system. Assessment, treatment, and psychopharmacological aspects of treatment are considered.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CES 78182 CAREER COUNSELING 3 Credit Hours**

(Slashed with CES 68182) The world of work, theories of career choice, techniques in career counseling. An introductory course in the career area for practitioners in education, helping services, human resources and personnel.

**Prerequisite:** Doctoral standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CES 78529 COUPLES THERAPY:THEORY AND TECHNIQUES 3 Credit Hours**

(Slashed with CES 68529) Study of selected couples therapy theories. Focus on concepts and techniques and their application in the therapeutic setting.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CES 78533 FAMILY THERAPY: THEORY AND TECHNIQUES 3 Credit Hours**

(Slashed with CES 68533) Explores systemic family therapy utilizing various philosophical orientations, theoretical concepts and techniques in a didactic experiential and applied atmosphere.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CES 78538 ADVANCED MULTICULTURAL COUNSELING 3 Credit Hours**

(Slashed with CES 68538) This course is designed to assist helping professionals in enhancing the knowledge and skill components of multicultural counseling. Cultural and multicultural counseling experiences with constructive feedback are provided.

**Prerequisite:** CES 67580 or CES 77580; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CES 78592 PRACTICUM IN COUPLES AND FAMILY THERAPY 3 Credit Hours**

(Repeatable for credit) Supervised experience in the practice of couples and family counseling. Students meet for individual supervision and seminar groups to assess their effectiveness in helping relationships.

**Prerequisite:** Doctoral standing in Counselor Education and Supervision major; and special approval.

**Schedule Type:** Practical Experience

**Contact Hours:** 14 other

**Grade Mode:** Standard Letter

**CES 79192 PRACTICUM II: CLINICAL REHABILITATION COUNSELING 3 Credit Hours**

Supervised, controlled exposure to rehabilitation clients; examine alternative modes of intervention; group and individual feedback sessions using audio and videotape recordings.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Practical Experience

**Contact Hours:** 16 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**CES 79792 INTERNSHIP IN CLINICAL REHABILITATION COUNSELING 6 Credit Hours**

(Repeatable for credit) Assignment to rehabilitation agency for extensive and intensive applications appropriate for rehabilitation counseling, consulting and coordinating. Supervision of internships shared jointly by rehabilitation agency and university instructor.

**Prerequisite:** CES 69192 or CES 79192; and doctoral standing.

**Schedule Type:** Practical Experience

**Contact Hours:** 43 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**CES 80090 DOCTORAL RESIDENCY SEMINAR IN COUNSELOR EDUCATION AND SUPERVISION 3 Credit Hours**

Focus on professional identity, current issues and trends and involvement in professional activities.

**Prerequisite:** Doctoral standing in Counselor Education and Supervision major.

**Schedule Type:** Seminar

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**CES 80199 DISSERTATION I 15 Credit Hours**

(Repeatable for credit) Doctoral candidates work on dissertation research in consultation with their advisors. Doctoral candidates will register for two consecutive semesters of CES 80199 Dissertation I for 15 hours each semester, immediately following successful completion of doctoral comprehensive exams. Thereafter, students will register for CES 80299 Dissertation II each semester, including summer, until all degree requirements have been met.

**Prerequisite:** Doctoral standing; and special approval.

**Schedule Type:** Dissertation

**Contact Hours:** 15 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP



**CES 80200 FUNDAMENTALS OF WRITING AND RESEARCH IN COUNSELOR EDUCATION AND SUPERVISION 3 Credit Hours**

Didactic and experiential training in the fundamentals of academic or scholarly writing and research in the counseling profession. Emphasis on reading practices; elements, principles, and processes of academic or scholarly writing; and generativity and systematic methodology in applied research in counseling and counselor education and supervision.

**Prerequisite:** Doctoral standing in the Counselor Education and Supervision major.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CES 80299 DISSERTATION II 15 Credit Hours**

(Repeatable for credit) Continuing registration required of doctoral students who have completed the initial 30 hours of Dissertation I and continuing until all degree requirements are met. Satisfactory/unsatisfactory (S/U) graded. In-progress (IP) mark permissible.

**Prerequisite:** CES 80199; and doctoral standing.

**Schedule Type:** Dissertation

**Contact Hours:** 15 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**CES 80300 LEADERSHIP AND ADVOCACY IN COUNSELOR EDUCATION AND SUPERVISION 3 Credit Hours**

This course is designed to assist doctoral level CES students to become knowledgeable and skillful professionals in leadership and advocacy efforts. Students will learn aspects of leadership and advocacy, such as applications in various settings and with diverse populations, to enable them to develop ethical and culturally relevant practices. Students must have completed one semester in the Counselor Education and Supervision doctoral program to enroll in this course.

**Prerequisite:** Doctoral standing in the Counselor Education and Supervision major.

**Schedule Type:** Seminar

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**CES 87392 ADVANCED INDIVIDUAL COUNSELING PRACTICUM 3 Credit Hours**

(Repeatable for credit) Supervised experience in counseling. Students meet for individual supervision and in seminar groups to assess their effectiveness in helping relationships.

**Prerequisite:** Doctoral standing in the Counselor Education and Supervision major.

**Schedule Type:** Practical Experience

**Contact Hours:** 14 other

**Grade Mode:** Standard Letter

**CES 87595 SPECIAL TOPICS IN COUNSELOR EDUCATION AND SUPERVISION 1-3 Credit Hours**

(Repeatable for credit) Presentation of topics of special interest to students in counselor education and supervision. Offered irregularly. Topics will be announced in schedule of classes booklet.

**Prerequisite:** Doctoral standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 1-3 lecture

**Grade Mode:** Standard Letter

**CES 87596 INDIV INVEST IN CES 1-3 Credit Hours**

(Repeatable for credit) (Slashed with CES 67596) Student investigates one or more topics in counseling under supervision. Review selected literature beyond normal course coverage. Arrangements with instructor must be made prior to registration.

**Prerequisite:** Doctoral standing; and special approval.

**Schedule Type:** Individual Investigation

**Contact Hours:** 1-3 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**CES 88167 CASE CONCEPTUALIZATION AND TREATMENT PLANNING 3 Credit Hours**

(Slashed with CES 68167) Development of understanding of more in-depth and complex counseling processes, case conceptualization and treatment planning, and advanced skills for intervention. Didactic and role-playing methods will be used.

**Prerequisite:** CES 67628 or CES 77628; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CES 88168 ADVANCED COUNSELING THEORIES 3 Credit Hours**

(Repeatable twice for credit) (Slashed with CES 68168) Consideration in depth of major counseling theories, with special emphasis on comparative analysis. Original readings used.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CES 88281 RESEARCH SEMINAR IN COUNSELOR EDUCATION AND SUPERVISION 3 Credit Hours**

Topics or problems of current concern in counselor education and supervision services. Review of significant studies, design strategies, instrumentation, data analysis and research issues. Topic to be announced in schedule of classes booklet.

**Prerequisite:** CES 80200, EVAL 75510, EVAL 85515 and EVAL 85516; and doctoral standing.

**Schedule Type:** Seminar

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**CES 88284 SUPERVISION OF COUNSELING 3 Credit Hours**

(Repeatable twice for credit) (Slashed with CES 68284) This seminar focuses on supervisory processes in terms of theoretical perspectives and practices of supervision. Reviews relevant literature related to the roles, functions and settings of clinical supervisor. Includes supervisory experiences.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CES 88292 INTERNSHIP IN COUNSELOR EDUCATION AND SUPERVISION 3-6 Credit Hours**

(Repeatable for credit) Opportunity to integrate learning and skills in Counseling, Teaching, Research and Scholarship, Leadership, and Supervision. Each experience requires supervision. Completion of program course requirements is necessary prior to registration.

**Prerequisite:** Doctoral standing; and special approval.

**Schedule Type:** Practical Experience, Seminar

**Contact Hours:** 23-46 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP



**CES 88294 COLLEGE TEACHING IN COUNSELOR EDUCATION AND SUPERVISION 3 Credit Hours**

(Repeatable for credit) Application of planning, instructional and evaluation skills. Doctoral students lead skill training groups, lecture a large class and guide group discussion with faculty supervision. Arrangements for this experience to be made before semester begins.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CES 88298 INDIVIDUAL RESEARCH IN COUNSELOR EDUCATION AND SUPERVISION 1-3 Credit Hours**

(Repeatable for credit) Individual research on selected aspect of counseling and human development services under supervision of instructor. Arrangements with instructor must be made prior to registration. Satisfactory/unsatisfactory (S/U) graded.

**Prerequisite:** Doctoral standing; and special approval.

**Schedule Type:** Research

**Contact Hours:** 1-3 other

**Grade Mode:** Satisfactory/Unsatisfactory

**CES 88392 TEACHING PRACTICUM IN COUNSELOR EDUCATION AND SUPERVISION 3 Credit Hours**

(Repeatable for credit) Supervised experience in the practice of college teaching in Counselor Education and Supervision. Students meet for group supervision to assess their effectiveness in college teaching. Live video and audio supervisory processes will be utilized to assist with skill development. Limited to 6 students.

**Prerequisite:** CES 88294; and doctoral standing.

**Schedule Type:** Practical Experience

**Contact Hours:** 9 other

**Grade Mode:** Standard Letter

**CES 88492 SUPERVISION PRACTICUM IN COUNSELOR EDUCATION AND SUPERVISION 3 Credit Hours**

(Repeatable for credit) This practicum focuses on the application of theoretical perspectives and practices of counseling supervision. It includes multiple supervisory experiences, including facilitation of individual and group supervision of counseling students in master's practicums or internships.

**Prerequisite:** CES 88284; and doctoral standing in the Counselor Education and Supervision major.

**Schedule Type:** Practical Experience

**Contact Hours:** 9 other

**Grade Mode:** Standard Letter

**Educational Psychology (EPSY)****EPSY 29525 EDUCATIONAL PSYCHOLOGY 3 Credit Hours**

Examines major theories of human development and learning, motivation, instructional strategies, assessment; similarities and differences in learners. The role of factors in the students' learning and development is considered. Participation in the educational psychology research participant pool or an alternative research assignment is required.

**Prerequisite:** CULT 29535.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** TAG Education

**EPSY 49525 RELATIONAL LEARNING IN EDUCATION 3 Credit Hours**

(Repeatable for credit) Seminar focuses on national and international relational learning approaches to education. Current literature on relational learning is critiqued. Professional identity is supported through engages learning opportunities in per mentoring experiences and faculty-let research. Course may be repeated for maximum 9 credit hours.

**Prerequisite:** Special approval.

**Schedule Type:** Seminar

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**EPSY 50093 VARIABLE TITLE WORKSHOP IN EDUCATIONAL PSYCHOLOGY 1-4 Credit Hours**

(Repeatable for a maximum of 6 credit hours) (Slashed with EPSY 70093) Offered on request of school system. Enrollment limited to teachers, administrators or supervisors who are employed in sponsoring system and who are accepted to the university.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Workshop

**Contact Hours:** 1-4 other

**Grade Mode:** Satisfactory/Unsatisfactory

**EPSY 60199 THESIS I 2-6 Credit Hours**

Thesis student must register for total of 6 hours, 2 to 6 hours in a single semester distributed over several semesters if desired.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Masters Thesis

**Contact Hours:** 2-6 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**EPSY 60299 THESIS II 2 Credit Hours**

Thesis students must continue registration each semester until all degree requirements are met.

**Prerequisite:** EPSY 60199; and graduate standing.

**Schedule Type:** Masters Thesis

**Contact Hours:** 2 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**EPSY 63531 CURRICULUM DEVELOPMENT FOR GIFTED LEARNERS 3 Credit Hours**

Focus on design/development of curriculum for gifted learners; adapt/modify existing curricula; design curricular materials through predetermined process assessment of suitability of materials.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**EPSY 63532 GIFTED PROGRAM DESIGN, ASSESSMENT AND ADMINISTRATION 3 Credit Hours**

Fundamentals of designing gifted programs are reviewed. Topics include student identification, assessment, advocacy, program evaluation, compliance with state standards, and teacher preparation.

**Prerequisite:** EPSY 63540 and EPSY 63545; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**EPSY 63535 SOCIAL AND EMOTIONAL ASPECTS OF THE GIFTED AND SPECIAL SUBPOPULATIONS 3 Credit Hours**

The affective needs and characteristics of gifted learners and special subpopulations are examined with consideration of the implications for instruction and socio-emotional supports.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**EPSY 63540 NATURE AND NEEDS OF GIFTED 3 Credit Hours**

Personal characteristics, abilities and potentialities of gifted through review of related research. Evaluation of research findings and implications for psycho-educational development.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**EPSY 63545 INSTRUCTIONAL PROCESSES FOR GIFTED CHILDREN 3 Credit Hours**

Education and guidance of gifted students, K-12. Classroom strategies for instruction and accommodation including selection of appropriate instructional strategies.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**EPSY 64892 ADVANCED PRACTICUM: GIFTED AND TALENTED EDUCATION 3 Credit Hours**

This course is designed to provide an opportunity to practice skills and demonstrate appropriate dispositions for meeting the needs of students who are gifted and talented.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Practical Experience

**Contact Hours:** 9 other

**Grade Mode:** Standard Letter-IP

**EPSY 65520 CHILD AND ADOLESCENT DEVELOPMENT 3 Credit Hours**

(Slashed with EPSY 75520) Dimensions of human development and learning, causal factors and research findings which carry implications for educators in various settings; focusing on birth through adolescence.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**EPSY 65521 ADULT DEVELOPMENT 3 Credit Hours**

(Slashed with EPSY 75521) Essential dimensions of human development and learning, the causal factors and the research findings which carry implications for educators in various settings; focusing on early through late adulthood.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**EPSY 65523 LIFE SPAN DEVELOPMENT 3 Credit Hours**

(Slashed with EPSY 75523) Orientation to human development across life span from conception to death; emphasis on pluralistic determinants of individual growth within changing environmental contexts. Implications for educational and human service practices are emphasized.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**EPSY 65524 LEARNING THEORIES 3 Credit Hours**

(Slashed with EPSY 75524) Theories of learning with special emphasis on application to professional practice. A critical examination of research on human learning processes.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**EPSY 65529 EDUCATIONAL MOTIVATION 3 Credit Hours**

Provides students with the opportunity to explore, analyze and evaluate literature related to theories of motivation. Content is grounded in theories but each of the theories has clear classroom application.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**EPSY 68901 PSYCHOLOGICAL FOUNDATIONS OF EDUCATION 3 Credit Hours**

(Slashed with EPSY 78901) Overview of human development, particularly adolescence, and implications for educational policy and programming, generally and specifically for secondary schools.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**EPSY 68905 EDUCATIONAL PSYCHOLOGY 3 Credit Hours**

(Slashed with EPSY 78905) Analysis and critique of major learning theories, state-of-the-art development in theory, research and application to educational practice in selected disciplines.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**EPSY 69091 SEMINAR IN LEARNING AND DEVELOPMENT 1-5 Credit Hours**

(Repeatable for credit) Variable topic seminar for advanced study of specialized topics and areas; in learning and development; emphasis on theory and research findings as related to educational practice.

**Prerequisite:** Graduate standing.

**Schedule Type:** Seminar

**Contact Hours:** 1-5 other

**Grade Mode:** Standard Letter

**EPSY 69092 ADVANCED PRACTICUM AND INTERNSHIP 1-6 Credit Hours**

Supervised program in field setting involving application of theories, principles, and methodology in learning and development; planned with and supervised by graduate faculty member.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Practical Experience

**Contact Hours:** 3.333-20 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**EPSY 69095 SPECIAL TOPICS IN LEARNING AND DEVELOPMENT 1-3 Credit Hours**

(Repeatable for credit) Specific topic course offering in response to emerging student or program needs in learning and development.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 1-3 lecture

**Grade Mode:** Standard Letter

**EPSY 69096 INDIVIDUAL INVESTIGATION IN LEARNING AND DEVELOPMENT 1-3 Credit Hours**

(Repeatable for credit) Students pursue an individual project on a specific topic in learning and development with approval and under direction of instructor.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Individual Investigation

**Contact Hours:** 1-3 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**EPSY 69098 RESEARCH IN LEARNING AND DEVELOPMENT 1-15 Credit Hours**

(Repeatable for credit) Students pursue an individual research project on a specific topic in learning and development with approval and under direction of instructor.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Research

**Contact Hours:** 1-15 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**EPSY 70093 VARIABLE TOPIC WORKSHOP IN EDUCATIONAL PSYCHOLOGY 1-4 Credit Hours**

(Repeatable once for a maximum of 6 credit hours) (Cross-listed with EPSY 50093) Offered on request of school system. Enrollment limited to teachers, administrators or supervisors who are employed in sponsoring system and who are accepted to the university.

**Prerequisite:** Doctoral standing; and special approval.

**Schedule Type:** Workshop

**Contact Hours:** 1-4 other

**Grade Mode:** Satisfactory/Unsatisfactory

**EPSY 70094 COLLEGE TEACHING 3 Credit Hours**

(Repeatable for credit) Discusses major aspects of teaching in higher education, including such topics as students' philosophy of teaching, principles of adult learning, instructional strategies, students' assessment.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**EPSY 75520 CHILD AND ADOLESCENT DEVELOPMENT 3 Credit Hours**

(Slashed with EPSY 65520) Dimensions of human development and learning, causal factors and research findings which carry implications for educators in various settings; focusing on birth through adolescence.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**EPSY 75521 ADULT DEVELOPMENT 3 Credit Hours**

(Slashed with EPSY 65521) Essential dimensions of human development and learning, the causal factors and the research findings which carry implications for educators in various settings; focusing on early through late adulthood.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**EPSY 75523 LIFE SPAN DEVELOPMENT 3 Credit Hours**

(Slashed with EPSY 65523) Orientation to human development across life span from conception to death; emphasis on pluralistic determinants of individual growth within changing environmental contexts. Implications for educational and human service practices are emphasized.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**EPSY 75524 LEARNING THEORIES 3 Credit Hours**

(Slashed with EPSY 65524) Theories of learning with special emphasis on application to professional practice. A critical examination of research on human learning processes.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**EPSY 75529 EDUCATIONAL MOTIVATION 3 Credit Hours**

Provides students with the opportunity to explore, analyze and evaluate literature related to theories of motivation. Content is grounded in theories but each of the theories has clear classroom application.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**EPSY 78901 PSYCHOLOGICAL FOUNDATIONS OF EDUCATION 3 Credit Hours**

(Slashed with EPSY 68901) Overview of human development and its implications for educational policy and programming for schools.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**EPSY 78905 EDUCATIONAL PSYCHOLOGY 3 Credit Hours**

(Slashed with EPSY 68905) Analysis and critique of major learning theories, state-of-the-art development in theory, research and application to educational practice in selected disciplines.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**EPSY 80090 DOCTORAL RESIDENCY SEMINAR 3 Credit Hours**

Advanced doctoral residency seminar for students in all areas of educational foundations. Focus on current and emergent issues research and trends in education in multiple settings.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Seminar

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**EPSY 80199 DISSERTATION I 15 Credit Hours**

(Repeatable for credit) Doctoral dissertation for which registration in at least two semesters is required, first of which will be semester in which dissertation work is begun and continuing until the completion of 30 hours.

**Prerequisite:** Doctoral standing; and special approval.

**Schedule Type:** Dissertation

**Contact Hours:** 15 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**EPSY 80299 DISSERTATION II 15 Credit Hours**

(Repeatable for credit) Continuing registration required of doctoral students who have completed the initial 30 hours of dissertation and continuing until all degree requirements are met.

**Prerequisite:** EPSY 80199; and doctoral standing.

**Schedule Type:** Dissertation

**Contact Hours:** 15 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**EPSY 87450 PSYCHOLOGICAL PRINCIPLES OF EDUCATION 3 Credit Hours**

Provides an exploration of educational psychology as the study of learning and teaching, in particular the mental representations and processes involved in the acquisition, storage, retrieval and use of knowledge in educational settings. Discusses how research and theory in educational psychology can be applied to real world classroom problems. Students are also required to develop a research project, which utilizes technology to test psychological theories about learning and instruction.

**Prerequisite:** Doctoral standing.

**Corequisite:** ETEC 87450.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**EPSY 89091 SEMINAR IN LEARNING AND DEVELOPMENT 1-5 Credit Hours**

(Repeatable for credit) Variable topic seminar for advanced study of specialized topics and areas; in learning and development; emphasis on theory and research findings as related to educational practice.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Seminar

**Contact Hours:** 1-5 other

**Grade Mode:** Standard Letter

**EPSY 89092 ADVANCED PRACTICUM AND INTERNSHIP 1-6 Credit Hours**

Supervised program in field setting involving application of theories, principles, and methodology in learning and development; planned with and supervised by graduate faculty member.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Practical Experience

**Contact Hours:** 3.333-20 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**EPSY 89095 SPECIAL TOPICS IN LEARNING AND DEVELOPMENT 1-3 Credit Hours**

(Repeatable for credit) Specific topic course offering in response to emerging student or program needs in learning and development.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 1-3 lecture

**Grade Mode:** Standard Letter

**EPSY 89096 INDIVIDUAL INVESTIGATION IN LEARNING AND DEVELOPMENT 1-3 Credit Hours**

(Repeatable for credit) Students pursue an individual project on a specific topic in learning and development with approval and under direction of instructor.

**Prerequisite:** Doctoral standing; and special approval.

**Schedule Type:** Individual Investigation

**Contact Hours:** 1-3 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**EPSY 89098 RESEARCH IN LEARNING AND DEVELOPMENT 1-15 Credit Hours**

(Repeatable for credit) Students pursue an individual research project on a specific topic in learning and development with approval and under direction of instructor.

**Prerequisite:** Doctoral standing; and special approval.

**Schedule Type:** Research

**Contact Hours:** 1-15 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**Gerontology (GERO)****GERO 14029 INTRODUCTION TO GERONTOLOGY (DIVD) (KSS) 3 Credit Hours**

Interdisciplinary approach to the study of the aging process.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Diversity Domestic, Kent Core Social Sciences, Transfer Module Social Sciences

**GERO 40656 PSYCHOLOGY OF AGING 3 Credit Hours**

(Slashed with GERO 50656 and GERO 70656) Exploration of basic research and theory on the psychological consequences of aging and psychological factors that affect the behavior of older persons.

**Prerequisite:** PSYC 11762.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**GERO 41095 SPECIAL TOPICS IN GERONTOLOGY 1-4 Credit Hours**

(Repeatable for credit) (Slashed with GERO 51095) Discussion of a major topic within a specific field of gerontology.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 1-4 lecture

**Grade Mode:** Standard Letter

**GERO 41096 INDIVIDUAL INVESTIGATION 1-3 Credit Hours**

(Repeatable for credit) Independent study in gerontology.

**Prerequisite:** Written permission from instructor.

**Schedule Type:** Individual Investigation

**Contact Hours:** 1-3 other

**Grade Mode:** Standard Letter

**GERO 44030 ADULT DEVELOPMENT AND AGING (WIC) 3 Credit Hours**

(Slashed with GERO 54030) Examines developmental processes across adulthood. Evaluation of theoretical models and scientific literature.

**Prerequisite:** Admission into the HDFS Professional Phase.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Writing Intensive Course

**GERO 44031 SOCIAL POLICY AND COMMUNITY RESOURCES FOR OLDER ADULTS 3 Credit Hours**

Overview of national, state and local public policy affecting older adults. Legislation, funding, planning and the service delivery system are examined.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**GERO 44092 PRACTICUM IN GERONTOLOGY (ELR) 3,6 Credit Hours**

(Repeatable for a total of 6 credit hours) Observation and participation in long-term care or community agencies serving older adults. One class discussion per week. Major GPA of 2.250 required.

**Prerequisite:** HDFS 44018; and human development and family studies majors; and senior standing; and special approval.

**Schedule Type:** Practical Experience

**Contact Hours:** 1 lecture, 14-35 other

**Grade Mode:** Standard Letter

**Attributes:** Experiential Learning Requirement

**GERO 50656 PSYCHOLOGY OF AGING 3 Credit Hours**

(Slashed with GERO 40656 and GERO 70656) Exploration of basic research and theory on the psychological consequences of aging and psychological factors that affect the behavior of older persons.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**GERO 51095 SPECIAL TOPICS IN GERONTOLOGY 1-4 Credit Hours**

(Repeatable for credit) (Slashed with GERO 41095) Discussion of a major topic or topics within the field of gerontology.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 1-4 lecture

**Grade Mode:** Standard Letter

**GERO 51096 INDIVIDUAL INVESTIGATION IN GERONTOLOGY 1-3 Credit Hours**

(Repeatable for credit) Independent study in the area of gerontology.

**Prerequisite:** Graduate standing.

**Schedule Type:** Individual Investigation

**Contact Hours:** 1-3 other

**Grade Mode:** Standard Letter

**GERO 54030 ADULT DEVELOPMENT AND AGING 3 Credit Hours**

(Slashed with GERO 44030) Examines developmental processes across adulthood. Evaluation of theoretical models and scientific literature.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**GERO 61091 SEMINAR IN GERONTOLOGY 1-3 Credit Hours**

(Repeatable for credit) Seminar dealing with topics in the field of gerontology.

**Prerequisite:** Graduate standing.

**Schedule Type:** Seminar

**Contact Hours:** 1-3 other

**Grade Mode:** Standard Letter

**GERO 61191 INTERDISCIPLINARY SEMINAR IN GERONTOLOGY 3 Credit Hours**

(Repeatable for credit) Course is designed to assist students in developing the knowledge and skills needed to understand the major issues in gerontological theory, research and practice from a multi-disciplinary perspective.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Seminar

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**GERO 70656 PSYCHOLOGY OF AGING 3 Credit Hours**

(Slashed with GERO 40656 and GERO 50656) Exploration of basic research and theory on the psychological consequences of aging and psychological factors that affect the behavior of older persons.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Human Development and Family Studies (HDFS)****HDFS 14027 INTRODUCTION TO HUMAN DEVELOPMENT AND FAMILY STUDIES 3 Credit Hours**

This course is intended to introduce students to the study of lifespan development and family studies. Career opportunities available to Human Development and Family Studies (HDFS) graduates are explored and skills required to succeed in the field are introduced.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HDFS 24011 INTERPERSONAL RELATIONSHIPS AND FAMILIES (DIVD) 3 Credit Hours**

(Equivalent to SOC 24011) Exploration of the sociological nature of families across the lifespan, focusing on structure, diversity and life course processes such as dating, mate selection, cohabitation, marriage, parenthood, divorce, remarriage, singlehood, widowhood, parent-child interactions, sexual orientation, inequality and difference.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Diversity Domestic

**HDFS 24012 CHILD DEVELOPMENT 3 Credit Hours**

General development of the child from prenatal through middle childhood.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter



**HDFS 24013 EARLY ADOLESCENCE 3 Credit Hours**

Examines the fundamental transitions, social contexts and psychosocial processes involved in human development from ages 10 through 15. Implications for working with this age group within schools, human services agencies and youth development programs.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HDFS 24014 BRIDGING CROSS-NATIONAL RELATIONSHIPS FOR INDIVIDUALS AND FAMILIES 3 Credit Hours**

This an interactive course designed to promote students' intercultural competence. The course provides students with an introduction to key components of various cultures around the world and with skills with which to build effective relationships with individuals from countries others than their own.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HDFS 24095 SPECIAL TOPICS IN HUMAN DEVELOPMENT AND FAMILY STUDIES 1-4 Credit Hours**

(Repeatable for credit) Discussion of a major topic within human development or family studies.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 1-4 lecture

**Grade Mode:** Standard Letter

**HDFS 25512 MANAGEMENT OF FAMILY RESOURCES 3 Credit Hours**

Management as applied to individuals, families and human service professionals.

**Prerequisite:** HDFS 24011.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HDFS 34031 CULTURAL DIVERSITY:IMPLICATIONS FOR THE HELPING PROFESSIONS 3 Credit Hours**

This class is designed to enhance the competence and success of students planning to work in human services. Learning how different cultural backgrounds influence the perceptions and behaviors of clients in the human service setting is emphasized.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HDFS 41093 VARIABLE TOPIC WORKSHOP:HUMAN DEVELOPMENT AND FAMILY STUDIES 1-3 Credit Hours**

(Repeatable for credit) Workshop setting dealing with a topic or topics in human development and family studies. Learning experiences are provided in a wide range of areas.

**Prerequisite:** None.

**Schedule Type:** Workshop

**Contact Hours:** 1-3 other

**Grade Mode:** Satisfactory/Unsatisfactory

**HDFS 41095 SPECIAL TOPICS IN HUMAN DEVELOPMENT AND FAMILY STUDIES 1-4 Credit Hours**

(Repeatable for credit) (Slashed with HDFS 51095) Discussion of a major topic within human development or family studies.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 1-4 lecture

**Grade Mode:** Standard Letter

**HDFS 41096 INDIVIDUAL INVESTIGATION 1-3 Credit Hours**

(Repeatable for credit) (Slashed with HDFS 51096) Independent study in human development and family studies.

**Prerequisite:** Written special approval from instructor.

**Schedule Type:** Individual Investigation

**Contact Hours:** 1-3 other

**Grade Mode:** Standard Letter

**HDFS 42092 HUMAN DEVELOPMENT AND FAMILY STUDIES STUDY AWAY EXPERIENCE (ELR) 3 Credit Hours**

(Repeatable twice for credit) Exploration of human development and family studies-related topics while visiting various cultural contexts.

**Prerequisite:** Minimum 2.750 overall GPA; and special approval.

**Schedule Type:** Field Experience

**Contact Hours:** 9 other

**Grade Mode:** Standard Letter-IP

**Attributes:** Experiential Learning Requirement

**HDFS 44018 PROFESSIONAL DEVELOPMENT IN HUMAN DEVELOPMENT AND FAMILY STUDIES 3 Credit Hours**

Preparation of students for professional work experiences as well as providing an opportunity to discuss recent developments in the fields of human development, family studies and gerontology.

**Prerequisite:** Admission into the HDFS professional phase; and senior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HDFS 44020 ADOLESCENT DEVELOPMENT 3 Credit Hours**

(Slashed with HDFS 54020) Study of adolescent development with emphasis on forces related to adolescent behavior in the family and society. Evaluation of current research.

**Prerequisite:** Admission into the HDFS professional phase.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HDFS 44021 FAMILY INTERVENTION ACROSS THE LIFESPAN 3 Credit Hours**

(Slashed with HDFS 54021) Evaluation of research and theoretical models in the area of family intervention. Focus on strategies for assisting families in coping with a variety of critical issues over the family life cycle.

**Prerequisite:** Admission into the HDFS professional phase.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HDFS 44022 CHANGING ROLES OF MEN AND WOMEN 3 Credit Hours**

(Slashed with HDFS 54022) A study of roles of men and women, past, present and future.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HDFS 44023 BUILDING FAMILY STRENGTHS 3 Credit Hours**

(Slashed with HDFS 54023) The Building Family Strengths Model builds upon family life potential; based on extensive research emphasizing identified family strengths.

**Prerequisite:** Admission into the HDFS professional phase.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HDFS 44028 PARENT-CHILD RELATIONSHIPS 3 Credit Hours**

(Slashed with HDFS 54028) Study of parent-child relationships across the life span and within various contexts. Emphasis on the process of socialization and determinants of parent-child relationships based on current research.

**Prerequisite:** Admission into the HDFS professional phase.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HDFS 44029 FAMILY POLICY 3 Credit Hours**

(Slashed with HDFS 54029) Understanding federal, state and local policy issues affecting families. Role of family life educator in promoting a family-friendly perspective in policy making.

**Prerequisite:** Admission into the HDFS professional phase.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HDFS 44030 FAMILY LIFE EDUCATION METHODOLOGY 3 Credit Hours**

Developing teaching methods and techniques for family life education and the study of family life education content areas.

**Prerequisite:** Admission into the HDFS professional phase.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HDFS 44032 NONPROFIT FUNDRAISING AND GRANTWRITING 3 Credit Hours**

(Slashed with HDFS 54032) Provides comprehensive preparation in planning, seeking and acquiring funding from available resources in supporting the mission of nonprofit human service agencies.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HDFS 44033 COMMUNITY OUTREACH IN NONPROFIT MANAGEMENT (ELR) 3 Credit Hours**

An overview of nonprofit organizations at the local, national and international levels, including how to start and manage one. A comprehensive examination of the Board of Directors, advocacy and lobbying, program development, mission, vision and strategic goals, philanthropic fundraising and the financial management process, as well as the legal aspects. In addition, students will study service learning and complete a Field Experience at a nonprofit organization.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Experiential Learning Requirement

**HDFS 44034 PRINCIPLES AND PRACTICES OF NONPROFIT MANAGEMENT 3 Credit Hours**

An overview of nonprofit organizations including the areas of risk management, mentoring, cultural competence, social entrepreneurship, and how to effectively manage paid staff and volunteers. In addition, students will learn about earned income strategies and the marketing-communication process, including the use of technology. The course will also cover leadership, communication and conflict resolution skills. Other areas of study include accountability and transparency, ethical behavior, building capacity, change management, and the importance of collaborations and mergers and government support in the sector.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HDFS 44035 ASSESSMENT AND STRATEGIES IN CASE MANAGEMENT 3 Credit Hours**

An examination of the evaluation of client needs and assessment of client condition. Course emphasizes interviewing as a major assessment strategy.

**Prerequisite:** Admission into the HDFS professional phase.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HDFS 44036 GENERAL CASE MANAGEMENT METHODS 3 Credit Hours**

Examination of case management processes and strategies, with focus on community resources to meet client needs in the human service setting.

**Prerequisite:** Admission into the HDFS professional phase.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HDFS 44037 POSITIVE YOUTH DEVELOPMENT 3 Credit Hours**

Examines individual, family, school and community characteristics that comprise developmental assets contributing to positive youth development (PYD). Definitions and descriptions of PYD approaches are examined as well as evaluations of program effectiveness. Common elements of PYD programs are explored, such as emphasizing youths' strengths, providing opportunities to learn healthy behaviors, promoting positive peer relationships, connecting youth with caring adults, empowering youth to assume leadership roles, and challenging youth in ways that build their competence. Implications for professional child and youth work are discussed.

**Prerequisite:** HDFS 44020; and admission into the HDFS professional phase.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HDFS 44038 PROFESSIONAL CHILD AND YOUTH WORK PRACTICE 3 Credit Hours**

Provides students with an understanding of the historical and current methodologies and organizational structures of professional child and youth work practice, emphasizing a synthesis of previous and new learning regarding five domains of competence (professionalism, cultural and human diversity, applied human development, relationship and communication and developmental practice methods). Practice issues in community-based and out-of-home care settings as well as work with various child and youth populations are explored.

**Prerequisite:** Admission into the HDFS professional phase.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HDFS 44039 BEREAVEMENT, TRAUMA AND OTHER LOSSES 3 Credit Hours**

Exploration of the impact of death, trauma and other losses on individuals and families across the lifespan. Consideration of gender, social and cultural context. Implications for human services professionals.

**Prerequisite:** HDFS 24011.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HDFS 44092 PRACTICUM IN HUMAN DEVELOPMENT AND FAMILY STUDIES (ELR) 3-6 Credit Hours**

(Repeatable for credit) (Slashed with HDFS 54092) Observation and participation in child, family and social service agencies. One class discussion per week. Students are required to complete Bureau of Criminal Investigation and Identification (BCII) and Federal Bureau of Investigation (FBI) background checks and submit the results to authorized personnel at their assigned school agency before the first day of the semester in which student teaching internship will take place. Major GPA of 2.250 is required.

**Prerequisite:** HDFS 44018; and admission into the HDFS professional phase; and senior standing; and special approval.

**Schedule Type:** Practical Experience

**Contact Hours:** 1 lecture, 14-35 other

**Grade Mode:** Standard Letter

**Attributes:** Experiential Learning Requirement

**HDFS 44192 INTERNSHIP IN HUMAN DEVELOPMENT AND FAMILY STUDIES-CASE MANAGEMENT I (ELR) 3-6 Credit Hours**

(Repeatable for credit) Supervised field experience in a human service agency. Joint university-agency supervision.

**Prerequisite:** Admission into HDFS professional phase; and junior standing.

**Corequisite:** HDFS 44035.

**Schedule Type:** Practical Experience

**Contact Hours:** 3-6 other

**Grade Mode:** Standard Letter

**Attributes:** Experiential Learning Requirement

**HDFS 44292 INTERNSHIP IN HUMAN DEVELOPMENT AND FAMILY STUDIES-CASE MANAGEMENT II (ELR) 3-6 Credit Hours**

(Repeatable for credit) Continued supervised field experience in a human service agency. Joint university-agency supervision.

**Prerequisite:** HDFS 44192; and admission into the HDFS professional phase; and junior standing.

**Corequisite:** HDFS 44036.

**Schedule Type:** Practical Experience

**Contact Hours:** 9-18 other

**Grade Mode:** Standard Letter

**Attributes:** Experiential Learning Requirement

**HDFS 51093 VARIABLE TITLE WORKSHOP IN HUMAN DEVELOPMENT AND FAMILY STUDIES 1-3 Credit Hours**

(Repeatable for credit) (Slashed with HDFS 41093) Workshop setting dealing with a topic or topics in human development and family studies. Learning experiences are provided in a wide range of areas.

**Prerequisite:** Graduate standing.

**Schedule Type:** Workshop

**Contact Hours:** 1-3 other

**Grade Mode:** Satisfactory/Unsatisfactory

**HDFS 51095 SPECIAL TOPICS IN HUMAN DEVELOPMENT AND FAMILY STUDIES 1-4 Credit Hours**

(Repeatable for credit) (Slashed with HDFS 41095) Discussion of a major topic within human development and family studies.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 1-4 lecture

**Grade Mode:** Standard Letter

**HDFS 51096 INDIVIDUAL INVESTIGATION 1-3 Credit Hours**

(Repeatable for credit) (Slashed with HDFS 41096) Independent study in human development and/or family studies.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Individual Investigation

**Contact Hours:** 1-3 other

**Grade Mode:** Standard Letter

**HDFS 52092 HUMAN DEVELOPMENT AND FAMILY STUDIES STUDY AWAY EXPERIENCE 3 Credit Hours**

(Repeatable twice for credit) Exploration of human development and family studies-related topics while visiting various cultural contexts.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Field Experience

**Contact Hours:** 9 other

**Grade Mode:** Standard Letter-IP

**HDFS 54020 ADOLESCENT DEVELOPMENT 3 Credit Hours**

(Slashed with HDFS 44020) Adolescent development with emphasis on forces related to adolescent behavior. Evaluation of current research.

**Prerequisite:** Human development and family studies major; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HDFS 54021 FAMILY INTERVENTION ACROSS THE LIFE SPAN 3 Credit Hours**

(Slashed with HDFS 44021) Evaluation of research and theoretical models in the area of family intervention. Focus on strategies for assisting families in coping with a variety of critical issues over the family life cycle.

**Prerequisite:** Human development and family studies major; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HDFS 54022 CHANGING ROLES OF MEN AND WOMEN 3 Credit Hours**

(Slashed with HDFS 44022) A study of roles of men and women, past, present, and future.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HDFS 54023 BUILDING FAMILY STRENGTHS 3 Credit Hours**

(Slashed with HDFS 44023) The building family strengths model builds upon family life potential, based on extensive research emphasizing identified family strengths.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HDFS 54028 PARENT-CHILD RELATIONSHIPS 3 Credit Hours**

Study of parent-child relationships across the life span and within various contexts. Emphasis on the process of socialization and determinants of parent-child relationships based on current research.

**Prerequisite:** Human development and family studies major; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HDFS 54029 FAMILY POLICY 3 Credit Hours**

(Slashed with HDFS 44029) Understanding federal, state and local policy issues affecting families. Role of family life educator in promoting a family-friendly perspective in policy making.

**Prerequisite:** Human development and family studies major; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HDFS 54032 NONPROFIT FUNDRAISING AND GRANTWRITING 3 Credit Hours**

(Slashed with HDFS 44032) Provides comprehensive preparation in planning, seeking and acquiring funding from available resources in supporting the mission of nonprofit human services agencies.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HDFS 54037 POSITIVE YOUTH DEVELOPMENT 3 Credit Hours**

Examines individual, family, school and community characteristics that comprise developmental assets contributing to positive youth development (PYD). Definitions and descriptions of PYD approaches are examined as well as evaluations of program effectiveness. Common elements of PYD programs are explored, such as emphasizing youths' strengths, providing opportunities to learn health behaviors, promoting positive peer relationships, connecting youth with caring adults, empowering youth to assume leadership roles, and challenging youth in ways that build their competence. Implications for professional child and youth work are discussed. Students complete a program development project.

**Prerequisite:** HDFS 54020; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HDFS 54038 PROFESSIONAL CHILD AND YOUTH WORK PRACTICE 3 Credit Hours**

(Slashed with HDFS 44038) Provides students with an understanding of the historical and current methodologies and organizational structures of professional child and youth work practice emphasizing a synthesis of previous and new learning regarding five domains of competence (professionalism, culture and human diversity, applied human development, relationship and communication and developmental practice methods). Practice issues in community-based and out of home care settings as well as work with various child and youth populations are to be explored. Students complete a program development and evaluation project.

**Prerequisite:** Human development and family studies major; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HDFS 54039 BEREAVEMENT, TRAUMA AND OTHER LOSSES 3 Credit Hours**

Exploration of the impact of death, trauma and other losses on individuals and families across the lifespan. Consideration of gender, social and cultural context. Implications for human services professionals.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HDFS 54092 PRACTICUM IN HUMAN DEVELOPMENT AND FAMILY STUDIES 3-6 Credit Hours**

(Repeatable for credit) (Slashed with HDFS 44092) Observation and participation in child, family and human service agencies.

**Prerequisite:** Human development and family studies major; and graduate standing; and special approval.

**Schedule Type:** Lecture, Practical Experience

**Contact Hours:** 1 lecture, 14-35 other

**Grade Mode:** Standard Letter

**HDFS 61091 SEMINAR 2,3 Credit Hours**

(Repeatable for credit) Evaluation and interpretation of recent literature in human development and/or family studies. Topic selected for semester will be indicated in the schedule of classes.

**Prerequisite:** Graduate standing.

**Schedule Type:** Seminar

**Contact Hours:** 2-3 other

**Grade Mode:** Standard Letter

**HDFS 61098 RESEARCH 1-15 Credit Hours**

(Repeatable for credit) Research for master's level graduate students. Credits earned may be applied toward meeting degree requirements if school approves.

**Prerequisite:** Graduate standing.

**Schedule Type:** Research

**Contact Hours:** 1-15 other

**Grade Mode:** Standard Letter-IP

**HDFS 61198 MASTER'S PROJECT 2-6 Credit Hours**

(Repeatable for credit) (Cross-listed with NUTR 61198) Completion and successful defense of a master's project. Master's project students must register for a total of 6 hours, 2 to 6 hours in a single semester distributed over several semesters if desired.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Master's Project

**Contact Hours:** 2-6 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**HDFS 61199 THESIS I 2-6 Credit Hours**

Thesis students must register for total of 6 hours, 2 to 6 hours in a single semester distributed over several semesters if desired.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Masters Thesis

**Contact Hours:** 2-6 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**HDFS 61299 THESIS II 2 Credit Hours**

Thesis II students must continue registration each semester until all degree requirements are met.

**Prerequisite:** HDFS 61199; and graduate standing.

**Schedule Type:** Masters Thesis

**Contact Hours:** 2 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**HDFS 64023 FAMILY THEORIES AND PROCESSES 3 Credit Hours**

An examination of theories and research for understanding family dynamics and changes in families across the lifespan. Includes attention to diverse family structures, dyadic and group processes applicable to families, and social and cultural contexts.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HDFS 64024 FAMILY LIFE EDUCATION 3 Credit Hours**

Developing community acceptance, teaching aids and techniques and curriculum for family life education.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HDFS 64026 PROFESSIONAL ISSUES IN HUMAN DEVELOPMENT AND FAMILY STUDIES 2 Credit Hours**

This course covers ethical and professional issues related to the field of human development and family studies. The course will cover both conceptual ideas related to research and practice in the field as well as practical tools for professional development and successful completion of the Master's Thesis or Project.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**HDFS 64027 EARLY ADOLESCENCE 3 Credit Hours**

Examines the fundamental changes, social contexts and psychosocial processes involved in human development from ages eight through 15. Implications for working with this age group within schools and human service agencies.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Long-Term Care Administration (LTCA)****LTCA 43092 INTERNSHIP IN NURSING HOME ADMINISTRATION/ HEALTH SERVICES EXECUTIVE (ELR) 9 Credit Hours**

Internship in skilled nursing facility. One, 3 hour, on-campus seminar every three weeks (meets four times). Approximately 35-40 clock hours per week at internship site is required. Students participate in weekly online course discussions and have an on-site visit to their internship site during the semester.

**Prerequisite:** Minimum B grade in LTCA 44032; and human development and family studies majors or long-term care administration majors; and senior standing; and special approval.

**Schedule Type:** Lecture, Practical Experience

**Contact Hours:** 2 lecture, 33.33 other

**Grade Mode:** Standard Letter-IP

**Attributes:** Experiential Learning Requirement

**LTCA 43192 INTERNSHIP IN NURSING HOME ADMINISTRATION/ HEALTH SERVICES EXECUTIVE (ELR) 9 Credit Hours**

Internship in skilled nursing facility. One 3-hour, on-campus seminar every three weeks (meets four times). Approximately 35 clock hours per week at internship site is required. Students participate in weekly online course discussions and have an on-site visit to their internship site during the semester.

**Prerequisite:** Minimum B grade in LTCA 43092; and human development and family studies major or long-term care administration; and senior standing; and special approval.

**Schedule Type:** Lecture, Practical Experience

**Contact Hours:** 2 lecture, 33.33 other

**Grade Mode:** Standard Letter-IP

**Attributes:** Experiential Learning Requirement



**LTCA 44032 LONG-TERM CARE ADMINISTRATION I 3 Credit Hours**  
(Slashed with LTCA 54032) Presents an overview and introduction to the principles of long-term care administration and other administration options.

**Prerequisite:** Junior or senior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**LTCA 44033 LONG-TERM CARE ADMINISTRATION II 3 Credit Hours**  
(Slashed with LTCA 54033) Presents a focus on Assisted Living (AL) and Home and Community Based Services (HCBS) and Supports in long term care to align with accreditation standards for Nursing Home Administration-Health Services Executive (NHA-HSE).

**Prerequisite:** Minimum C+ in LTCA 44032; and senior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**LTCA 54032 LONG-TERM CARE ADMINISTRATION I 3 Credit Hours**  
(Slashed with LTCA 44032) Presents an overview and introduction to the principles of long-term care (LTC) administration and other administration options.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**LTCA 54033 LONG-TERM CARE ADMINISTRATION II 3 Credit Hours**  
(Slashed with LTCA 44033) Presents a focus on Assisted Living (AL) and Home and Community Based Services (HCBS) and Supports in long term care to align with accreditation standards for Nursing Home Administration-Health Services Executive (NHA-HSE).

**Prerequisite:** Minimum B grade in LTCA 54032; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**LTCA 63092 PRACTICUM IN NURSING HOME ADMINISTRATION I 6 Credit Hours**

Internship in skilled nursing facility. One, 3 hour, on-campus seminar every three weeks (meets five times). Weekly one hour online lectures and discussions also take place. Approximately 35 clock hours per week at internship site is required.

**Prerequisite:** Minimum B grade in LTCA 54032; and graduate standing; and special approval.

**Schedule Type:** Lecture, Practical Experience

**Contact Hours:** 2 lecture, 33.33 other

**Grade Mode:** Standard Letter

**LTCA 63192 PRACTICUM IN NURSING HOME ADMINISTRATION II 6 Credit Hours**

Internship in skilled nursing facility. One 3-hour, on-campus seminar every three weeks (meets five times). One hour online lectures and discussions are held each week. Approximately 35 clock hours per week at internship is required.

**Prerequisite:** A minimum B grade in both LTCA 54032 and LTCA 63092; and graduate standing; and special approval.

**Schedule Type:** Lecture, Practical Experience

**Contact Hours:** 2 lecture, 33.33 other

**Grade Mode:** Standard Letter

## Rehabilitation Counseling and Training (RHAB)

**RHAB 57712 INTRODUCTION TO REHABILITATION 3 Credit Hours**

Introductory course surveys philosophy, history, and legislation in rehabilitation which is defined as a process, social movement and public mandate. Particular emphasis is given to the role and function of the rehabilitation counselor in the private and public sectors.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**RHAB 60093 VARIABLE TITLE WORKSHOP IN REHABILITATION COUNSELING 1-4 Credit Hours**

(Repeatable for credit)

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Workshop

**Contact Hours:** 1-4 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**RHAB 67723 MEDICAL INFORMATION FOR REHABILITATION COUNSELORS 3 Credit Hours**

(Cross-listed with CES 77723) Study of the physical impact of disease or injury on individuals; available medical and restorative resources skills in interpreting medical reports and rehabilitation planning.

**Prerequisite:** Graduate standing.

**Schedule Type:** Clerkship

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**RHAB 67725 PSYCHOSOCIAL IMPACT OF DISABILITY 3 Credit Hours**

Introduction to major concepts in rehabilitation regarding the impact of disability on the individual, the family and the community. Normalization stigma and adjustment to loss emphasized.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**RHAB 67730 POLICIES AND PRACTICES FOR REHABILITATION COUNSELORS OF THE DEAF 3 Credit Hours**

Designed to integrate coursework in Rehabilitation and Deaf Education with field experiences in preparation for interning with an RCD by building upon coursework and field experiences to examine the unique issues, accommodations, and modifications needed when applying these processes to DHH individuals. The course addresses cultural, linguistic, and experiential issues that impact achievement, assessment, vocational identity and skills, career education and training, counseling theory and practice, and employer and employment site preparation with a focus on identification and use of research-based exemplary practices. It also provides specific consumer, vendor, organizational, political, social, and educational aspects facing RCDs.

**Prerequisite:** Rehabilitation counseling and training major; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**RHAB 67732 OCCUPATIONAL ASPECTS OF DISABILITY 3 Credit Hours**

An introduction to a wide range of occupational and vocational analysis through job analysis, job seeking, job placement, job restructuring, work adjustment and independent living approaches.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**RHAB 67776 SEMINAR ON RESEARCH IN DISABILITIES 3 Credit Hours**

Survey of the research literature in disabilities. Guidelines for evaluating and implementing research findings. Acquaints students with current research. Evaluation of design statistical analysis and conclusions.

**Prerequisite:** Graduate standing.

**Corequisite:** EVAL 65510.

**Schedule Type:** Seminar

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**RHAB 67795 SPECIAL TOPICS IN REHABILITATION 1-3 Credit Hours**

(Repeatable for credit) Presentation of special interest to students. Offered irregularly. Topic will be announced in schedule of classes booklet.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**RHAB 67796 INDIVIDUAL INVESTIGATION IN REHABILITATION COUNSELING 1-3 Credit Hours**

(Repeatable for credit) Independent reading and/or research directed by a graduate faculty member.

**Prerequisite:** Graduate standing.

**Schedule Type:** Individual Investigation

**Contact Hours:** 1-3 other

**Grade Mode:** Standard Letter-IP

**RHAB 67798 INDIVIDUAL RESEARCH IN REHABILITATION 1-9 Credit Hours**

(Repeatable for credit) Research project on an aspect of rehabilitation under supervision of instructor. Arrangements with instructor must be made prior to registration.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Research

**Contact Hours:** 1-9 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**RHAB 67892 INTERNSHIP: REHABILITATION 6 Credit Hours**

(Repeatable for credit) Assignment to rehabilitation agency for extensive and intensive applications appropriate for rehabilitation counseling, consulting and coordinating. Supervision of internships shared jointly by rehabilitation agency and university instructor. Credit hour reduction for prior experience may be granted.

**Prerequisite:** CES 69192; and graduate standing.

**Schedule Type:** Practical Experience

**Contact Hours:** 43 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**RHAB 70093 VARIABLE TITLE WORKSHOP IN REHABILITATION COUNSELING 1-4 Credit Hours**

(Repeatable for credit)

**Prerequisite:** Doctoral standing; and special approval.

**Schedule Type:** Workshop

**Contact Hours:** 1-4 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**RHAB 77712 INTRODUCTION TO REHABILITATION 3 Credit Hours**

Introductory course surveys philosophy, history and legislation in rehabilitation which is defined as a process, social movement and public mandate. Particular emphasis is given to the role and function of the rehabilitation counselor in the private and public sectors.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**RHAB 77723 MEDICAL INFORMATION FOR REHABILITATION COUNSELORS 3 Credit Hours**

(Cross-listed with CES 67723) Study of the physical impact of disease or injury on individuals; available medical and restorative resources skills in interpreting medical reports and rehabilitation planning.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Clerkship

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**RHAB 77725 PSYCHOSOCIAL IMPACT OF DISABILITY 3 Credit Hours**

Introduction to major concepts in rehabilitation regarding the impact of disability on the individual, the family and the community. Normalization, stigma and adjustment to loss emphasized.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**RHAB 77732 OCCUPATIONAL ASPECTS OF DISABILITY 3 Credit Hours**

An introduction to a wide range of occupational and vocational analysis through job analysis, job seeking, job placement, job restructuring, work adjustment and independent living approaches.

**Prerequisite:** RHAB 67729 or 77729; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**RHAB 77736 INDIVIDUAL COUNSELING PRACTICUM IN REHABILITATION 2-4 Credit Hours**

Supervised, controlled exposure to rehabilitation clients; examine alternative modes of intervention; group and individual feedback sessions using audio and videotape recordings.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Practical Experience

**Contact Hours:** 2-4 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**RHAB 77776 SEMINAR ON RESEARCH IN DISABILITIES 3 Credit Hours**

Survey of the research literature in disabilities. Guidelines for evaluating and implementing research findings. Acquaints students with current research. Evaluation of design statistical analysis and conclusions.

**Prerequisite:** Doctoral standing.

**Corequisite:** EVAL 66510.

**Schedule Type:** Seminar

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**RHAB 77792 INTERNSHIP REHABILITATION 6 Credit Hours**

(Repeatable for credit) Assignment to rehabilitation agency for extensive and intensive applications appropriate for rehabilitation counseling, consulting and coordinating. Supervision of internships shared jointly by rehabilitation agency and university instructor. Credit hour reduction for prior experience may be granted.

**Prerequisite:** CES 6/77736; and doctoral standing.

**Schedule Type:** Practical Experience

**Contact Hours:** 43 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**RHAB 77795 SPECIAL TOPICS IN REHABILITATION 1-3 Credit Hours**

(Repeatable for credit) Presentation of special interest to students. Offered irregularly. Topic will be announced in schedule of classes booklet.

**Prerequisite:** Doctoral standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 1-3 lecture

**Grade Mode:** Standard Letter

**RHAB 77796 INDIVIDUAL INVESTIGATION IN REHABILITATION COUNSELING 1-3 Credit Hours**

(Repeatable for credit) Independent reading and/or research directed by a graduate faculty member.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Individual Investigation

**Contact Hours:** 1-3 other

**Grade Mode:** Standard Letter-IP

**RHAB 77798 INDIVIDUAL RESEARCH IN REHABILITATION 1-9 Credit Hours**

(Repeatable for credit) Research project on an aspect of rehabilitation under supervision of instructor. Arrangements with instructor must be made prior to registration.

**Prerequisite:** Doctoral standing; and special approval.

**Schedule Type:** Research

**Contact Hours:** 1-9 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**School Psychology (SPSY)****SPSY 60093 VARIABLE TITLE WORKSHOP IN SCHOOL PSYCHOLOGY 1-4 Credit Hours**

(Repeatable for credit)

**Prerequisite:** Grading standing; and special approval.

**Schedule Type:** Workshop

**Contact Hours:** 1-4 other

**Grade Mode:** Satisfactory/Unsatisfactory

**SPSY 60094 COLLEGE TEACHING 3 Credit Hours**

(Repeatable for credit) (Slashed with SPSY 70094) Discusses major aspects of teaching in higher education, including such topics as students' philosophy of teaching, principles of adult learning, instructional strategies, students' assessment.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPSY 60162 DEVELOPMENTAL ASSESSMENT 3 Credit Hours**

Reviews the educational, family and regulatory forces that influence success at each significant transition for preschool, kindergarten and primary grade children. 24 clinical/field hours.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPSY 60165 PRINCIPLES OF SOCIAL LEARNING 3 Credit Hours**

The main focus is to provide students with an understanding of behavioral and social learning principles within the context of the school psychologist's professional practice. 19 clinical/field hours.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPSY 60191 SEMINAR:SCHOOL PSYCHOLOGY 1-4 Credit Hours**

(Repeatable for credit) Seminar in school psychology. Varied topics.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Seminar

**Contact Hours:** 1-4 other

**Grade Mode:** Standard Letter

**SPSY 67592 FIELD EXPERIENCE IN EDUCATION FOR SCHOOL PSYCHOLOGISTS 2 Credit Hours**

This field experience provides students with the opportunity to observe various school and educational settings that reflect the typical work scope for school psychologists. Required for those students in school psychology who do not have teaching certificates and have not spent extensive time in public schools. Students are required to complete Bureau of Criminal Investigation and Identification (BCII) and Federal Bureau of Investigation (FBI) background checks and submit the results to authorized personnel at their assigned 'school-agency' before the first day of the semester in which student teaching internship will take place.

**Prerequisite:** School psychology major; and graduate standing.

**Schedule Type:** Field Experience

**Contact Hours:** 8 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**SPSY 67692 PRACTICUM I IN SCHOOL PSYCHOLOGY 3 Credit Hours**

(Repeatable for credit) (Slashed with SPSY 77692) This course provides students with experience, support, and opportunities for reflection related to the foundational domains of the practice of school psychology and ongoing professional development. Students are required to complete Bureau of Criminal Investigation and Identification (BCII) and Federal Bureau of Investigation (FBI) background checks and submit the results to authorized personnel prior to the beginning of any field-based activities.

**Prerequisite:** School psychology major; and graduate standing.

**Schedule Type:** Practical Experience

**Contact Hours:** 9 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**SPSY 67792 PRACTICUM II IN SCHOOL PSYCHOLOGY 3 Credit Hours**

(Repeatable for credit) (Slashed with SPSY 77792) Provides students with applied experience and professional development related to foundational domains of school psychology practice. Students are required to complete Bureau of Criminal Investigation and Identification (BCII) and Federal Bureau of Investigation (FBI) background checks and submit the results to authorized personnel prior to beginning any field-based activities.

**Prerequisite:** SPSY 67692 or SPSY 77692; and school psychology major; and graduate standing.

**Schedule Type:** Practical Experience

**Contact Hours:** 9 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**SPSY 67892 ADVANCED PRACTICUM IN SCHOOL PSYCHOLOGY 3-6 Credit Hours**

(Repeatable for credit) (Slashed with SPSY 77892) Provides students with advanced applied experience in educational, mental health, or behavioral health settings. 60 clock hours per credit hour. Students are required to complete Bureau of Criminal Investigation and Identification (BCII) and Federal Bureau of Investigation (FBI) background checks and submit the results to authorized personnel prior to beginning any field-based activities.

**Prerequisite:** SPSY 67792; and school psychology major; and graduate standing and; special approval.

**Schedule Type:** Practical Experience

**Contact Hours:** 12-24 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**SPSY 67912 ROLE OF THE SCHOOL PSYCHOLOGIST 3 Credit Hours**

Study of role and functions of school psychologists in American education. Includes history of school psychology and future orientation. Five clinical/field hours.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter-IP

**SPSY 67920 DIAGNOSIS OF CHILDHOOD DISORDERS IN SCHOOLS 3 Credit Hours**

Provides overview of diagnosis of child and adolescent behavior disorders (ADHD, conduct problems) emotional and social disorders (depression, anxiety, phobias) and developmental acquired disorders (autism, mental retardation).

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPSY 67925 INTRODUCTION TO NEUROPSYCHOLOGY FOR SCHOOL PSYCHOLOGISTS 1 Credit Hour**

Introduces basic concepts in child neuropsychology with relevance for applied school psychological practice. Topics include biological bases of behavior and implications for educational interventions.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 1 lecture

**Grade Mode:** Standard Letter

**SPSY 67926 INTRODUCTION TO DIGITAL CITIZENSHIP FOR SCHOOL PSYCHOLOGISTS 1 Credit Hour**

(Slashed with SPSY 77926) This course is designed to provide students with an introductory understanding of the fundamental issues and practices of technology in school psychology. Students will gain skills related to: (a) ethical and professional use of technology; (b) evaluate features of various technology systems; (c) identify functional intervention goals to which technology can contribute; and (d) use technology to collect, analyze, summarize, and report student performance to aid instructional decision-making.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 1 lecture

**Grade Mode:** Standard Letter

**SPSY 67928 GROUP COUNSELING TECHNIQUES FOR REHABILITATION COUNSELORS AND SCHOOL PSYCHOLOGISTS 3 Credit Hours**

Review of group counseling techniques for rehab counselors and school psychologists. Skills developed in group process and group leadership. A variety of group interventions will be examined including techniques for persons with disabilities.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPSY 67929 INDIVIDUAL COUNSELING TECHNIQUES FOR REHABILITATION COUNSELORS AND SCHOOL PSYCHOLOGISTS 3 Credit Hours**

(Slashed with SPSY 77929) Review of individual counseling techniques. Skills developed in communication, interviewing, problem identification, goal setting and program development are fostered by lecture, video feedback and simulation.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPSY 67931 PROGRAM DEVELOPMENT AND ETHICAL APPLICATION OF APPLIED BEHAVIOR ANALYSIS 3 Credit Hours**

Describe and apply methodology and research design in monitoring the effectiveness of behavioral interventions and to use such information to evaluate overall program efficacy. Consideration is given to student characteristics (e.g., underlying disability) when developing and evaluating behavior programs based. Use of specific tools for prioritizing behaviors, evaluating progress, and making treatment program decisions are presented. Issues related to ethics, treatment implementation fidelity, and behavioral program development are also emphasized.

**Prerequisite:** SPED 53030; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPSY 67932 ADVANCED INTERVENTIONS FOR ADDRESSING SEVERE BEHAVIOR 3 Credit Hours**

Use and interpretation of functional behavioral assessment in educational settings to lead to the identification of empirically-supported interventions to address the behavioral needs of children. The development, implementation and analysis of functional analysis procedures. Special emphasis given to identifying/designing, implementing and assessing the effectiveness of advanced behavioral interventions in consultation. 20 field hrs.

**Prerequisite:** SPED 53030 and SPSY 67920 or SPSY 77920; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPSY 67951 COGNITIVE ASSESSMENT OF CHILDREN IN SCHOOLS 3 Credit Hours**

Training and experience in administering, scoring and interpreting cognitive measures for children and adolescents and writing reports. 30 clinical/field hours.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPSY 67955 INSTRUCTIONAL ASSESSMENT FOR SCHOOL PSYCHOLOGISTS 3 Credit Hours**

Training in administration, scoring and interpretation of normative and non-normative measures of academic achievement, instructional environment and writing psychoeducational and team reports. 25 clinical/field hours.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPSY 67960 INTERVENTIONS WITH CULTURALLY DIVERSE STUDENTS 3 Credit Hours**

Introduces skills to effectively and ethically implement educational and psychological interventions with culturally diverse children in educational settings. 5 clinical/field hours.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPSY 67965 INSTRUCTIONAL INTERVENTIONS FOR SCHOOL PSYCHOLOGISTS 3 Credit Hours**

Describes design and implementation of evidence-based interventions, methods of data collection and progress monitoring for school based academic referrals within a problem solving model. Requires 25 clinical field hours.

**Prerequisite:** SPSY 67955; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPSY 67970 LEGAL, ETHICAL AND PROFESSIONAL ISSUES IN SCHOOL PSYCHOLOGY 3 Credit Hours**

Ethical, legal and professional issues of school psychologists and counselors will be explored. Considerations of law, regulations, ethical standards and codes of professional practice of related professional organizations will be addressed.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPSY 67971 ISSUES AND APPROACHES IN SCHOOL PSYCHOLOGY 3 Credit Hours**

(Repeatable for a maximum of 6 credit hours) This course describes and illustrates contemporary elements and forces that impact professional service in school psychology practice. Students register for two consecutive semesters in conjunction with internship.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 3 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**SPSY 67972 SOCIAL-EMOTIONAL ASSESSMENT FOR SCHOOL PSYCHOLOGISTS 3 Credit Hours**

Training in administration, scoring and interpretation of techniques for assessment of social emotional functioning and adaptive behavior and writing evaluation team reports. 25 clinical/field hours. Students are required to complete Bureau of Criminal Investigation and Identification (BCII) and Federal Bureau of Investigation (FBI) background checks and submit the results to authorized personnel at their assigned 'school/agency' before the first day of the semester in which student teaching/ internship will take place.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPSY 67973 CONSULTATION IN THE HELPING PROFESSIONS 3 Credit Hours**

Students learn consultation skills and processes utilizing a number of professional models such as Caplan's model, behavior and problem solving models and crisis consultation. 20 clinical/field hours.

Students are required to complete Bureau of Criminal Investigation and Identification (BCII) and Federal Bureau of Investigation (FBI) background checks and submit the results to authorized personnel at their assigned 'school/agency' before the first day of the semester in which student teaching/ internship will take place.

**Prerequisite:** Graduate standing.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**SPSY 67974 SOCIAL-EMOTIONAL INTERVENTIONS IN SCHOOL PSYCHOLOGY 3 Credit Hours**

Describes design and implementation of social-emotional interventions for childhood disorders. Reviews progress monitoring for school-based social and emotional referrals within an eco-behavioral problem-solving model. 25 clinical field hours.

**Prerequisite:** SPSY 67972; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter



**SPSY 67975 HOME, SCHOOL AND COMMUNITY COLLABORATION 3 Credit Hours**

(Slashed with SPSY 77975) This course is designed to familiarize school psychologists with essential attitudes, approaches, and actions necessary to form successful family-school-community partnerships that can foster development and learning.

**Prerequisite:** School psychology major; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPSY 67995 SPECIAL TOPICS IN SCHOOL PSYCHOLOGY 1-3 Credit Hours**

(Repeatable for credit) Presentations of special interest to students. Offered irregularly. Topics will be announced in schedule of classes booklet.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 1-3 lecture

**Grade Mode:** Standard Letter

**SPSY 67996 INDIVIDUAL INVESTIGATION IN SCHOOL PSYCHOLOGY 1-3 Credit Hours**

(Repeatable for credit) Independent reading and/or research directed by a graduate faculty member.

**Prerequisite:** Graduate standing.

**Schedule Type:** Individual Investigation

**Contact Hours:** 1-3 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**SPSY 67998 INDIVIDUAL RESEARCH IN SCHOOL PSYCHOLOGY 1-9 Credit Hours**

(Repeatable for credit) Student pursues research project on selected aspect of school psychology under supervision of instructor. Arrangements with instructor must be made prior to registration.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Research

**Contact Hours:** 1-9 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**SPSY 70093 VARIABLE TITLE WORKSHOP IN SCHOOL PSYCHOLOGY 1-4 Credit Hours**

(Repeatable for credit)

**Prerequisite:** Doctoral standing; and special approval.

**Schedule Type:** Workshop

**Contact Hours:** 1-4 other

**Grade Mode:** Satisfactory/Unsatisfactory

**SPSY 70094 COLLEGE TEACHING 3 Credit Hours**

(Repeatable for credit) (Slashed with SPSY 60094) Discusses major aspects of teaching in higher education, including such topics as students' philosophy of teaching, principles of adult learning, instructional strategies, students' assessment.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPSY 70162 DEVELOPMENTAL ASSESSMENT 3 Credit Hours**

Reviews the educational, family and regulatory forces that influence success at each significant transition for preschool kindergarten and primary grade children. 24 clinical field hours.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPSY 70165 PRINCIPLES OF SOCIAL LEARNING 3 Credit Hours**

The main focus is to provide students with an understanding of behavioral and social learning principles within the context of the school psychologist's professional practice.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPSY 70191 SEMINAR:SCHOOL PSYCHOLOGY 1-4 Credit Hours**

(Repeatable for credit) Seminar in school psychology. Varied topics.

**Prerequisite:** Doctoral standing; and special approval.

**Schedule Type:** Seminar

**Contact Hours:** 1-4 other

**Grade Mode:** Standard Letter

**SPSY 77592 FIELD EXPERIENCE IN EDUCATION FOR SCHOOL PSYCHOLOGISTS 2 Credit Hours**

This field experience provides students with the opportunity to observe various school and educational settings that reflect the typical work scope for school psychologists. Required for those students in school psychology who do not have teaching certificates and have not spent extensive time in public schools. Students are required to complete Bureau of Criminal Investigation and Identification (BCII) and Federal Bureau of Investigation (FBI) background checks and submit the results to authorized personnel at their assigned 'school-agency' before the first day of the semester in which student teaching internship will take place.

**Prerequisite:** School psychology major; and graduate standing.

**Schedule Type:** Field Experience

**Contact Hours:** 8 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**SPSY 77692 PRACTICUM I IN SCHOOL PSYCHOLOGY 3 Credit Hours**

(Repeatable for credit) (Slashed with SPSY 67692) This course provides students with experience, support, and opportunities for reflection related to the foundational domains of the practice of school psychology and ongoing professional development. Students are required to complete Bureau of Criminal Investigation and Identification (BCII) and Federal Bureau of Investigation (FBI) background checks and submit the results to authorized personnel prior to the beginning of any field-based activities.

**Prerequisite:** School psychology major; and special approval.

**Schedule Type:** Practical Experience

**Contact Hours:** 9 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**SPSY 77792 PRACTICUM II IN SCHOOL PSYCHOLOGY 3 Credit Hours**

(Repeatable for credit) (Slashed with SPSY 67792) Provides students with applied experience and professional development related to foundational domains of school psychology practice. Students are required to complete Bureau of Criminal Investigation and Identification (BCII) and Federal Bureau of Investigation (FBI) background checks and submit the results to authorized personnel prior to beginning any field-based activities.

**Prerequisite:** SPSY 67692 or SPSY 77692; and school psychology major; and doctoral standing.

**Schedule Type:** Practical Experience

**Contact Hours:** 9 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**SPSY 77892 ADVANCED PRACTICUM IN SCHOOL PSYCHOLOGY 3-6 Credit Hours**

(Repeatable for credit) (Slashed with SPSY 67892) Provides students with advanced applied experience in educational, mental health, or behavioral health settings. 60 clock hours per credit hour. Students are required to complete Bureau of Criminal Investigation and Identification (BCII) and Federal Bureau of Investigation (FBI) background checks and submit the results to authorized personnel prior to beginning any field-based activities.

**Prerequisite:** SPSY 77792; and school psychology major; and doctoral standing; and special approval.

**Schedule Type:** Practical Experience

**Contact Hours:** 12-24 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**SPSY 77912 ROLE OF THE SCHOOL PSYCHOLOGIST 3 Credit Hours**

Study of role and functions of school psychologists in American education. Includes history of school psychology and future orientation. Five clinical field hours.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter-IP

**SPSY 77920 DIAGNOSIS OF CHILDHOOD DISORDERS IN SCHOOLS 3 Credit Hours**

Provides overview of diagnosis of child and adolescent behavior disorders (ADHD, conduct problems) emotional and social disorders (depression, anxiety, phobias) and developmental acquired disorders (autism, mental retardation).

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPSY 77925 INTRODUCTION TO NEUROPSYCHOLOGY FOR SCHOOL PSYCHOLOGISTS 1 Credit Hour**

Introduces basic concepts in child neuropsychology with relevance for applied school psychological practice. Topics include biological bases of behavior and implications for educational interventions.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 1 lecture

**Grade Mode:** Standard Letter

**SPSY 77926 INTRODUCTION TO DIGITAL CITIZENSHIP FOR SCHOOL PSYCHOLOGISTS 1 Credit Hour**

(Slashed with SPSY 67926) This course is designed to provide students with an introductory understanding of the fundamental issues and practices of technology in school psychology. Students will gain skills related to: (a) ethical and professional use of technology; (b) evaluate features of various technology systems; (c) identify functional intervention goals to which technology can contribute; and (d) use technology to collect, analyze, summarize, and report student performance to aid instructional decision-making.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 1 lecture

**Grade Mode:** Standard Letter

**SPSY 77928 GROUP COUNSELING TECHNIQUES FOR REHABILITATION COUNSELORS AND SCHOOL PSYCHOLOGISTS 3 Credit Hours**

Review of group counseling techniques for rehab counselors and school psychologists. Skills developed in group process and group leadership. A variety of group interventions will be examined including techniques for persons with disabilities.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPSY 77929 INDIVIDUAL COUNSELING TECHNIQUES FOR REHABILITATION COUNSELORS AND SCHOOL PSYCHOLOGISTS 3 Credit Hours**

(Slashed with SPSY 67929) Review of individual counseling techniques. Skills developed in communication interviewing problem identification goal setting and program development are fostered by lecture, video feedback and simulation.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPSY 77932 ADVANCED INTERVENTIONS FOR ADDRESSING SEVERE BEHAVIOR 3 Credit Hours**

Use and interpretation of functional behavioral assessment in educational settings to lead to the identification of empirically-supported interventions to address the behavioral needs of children. The development, implementation and analysis of functional analysis procedures. Special emphasis given to identifying/designing, implementing and assessing the effectiveness of advanced behavioral interventions in consultation. 20 field hrs.

**Prerequisite:** SPED 53030 and SPSY 67920 or SPSY 77920; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPSY 77951 COGNITIVE ASSESSMENT OF CHILDREN IN SCHOOLS 3 Credit Hours**

Training and experience in administering, scoring and interpreting cognitive measures for children and adolescents and writing reports. 30 clinical/field hours.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPSY 77955 INSTRUCTIONAL ASSESSMENT FOR SCHOOL PSYCHOLOGISTS 3 Credit Hours**

Training in administration, scoring and interpretation of normative and non-normative measures of academic achievement instructional environment and writing psychoeducational and team reports. 25 clinical field hours.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPSY 77960 INTERVENTIONS WITH CULTURALLY DIVERSE STUDENTS 3 Credit Hours**

Introduces skills to effectively and ethically implement educational and psychological interventions with culturally diverse children in educational settings. 5 clinical/field hours.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPSY 77965 INSTRUCTIONAL INTERVENTIONS FOR SCHOOL PSYCHOLOGISTS 3 Credit Hours**

Describes design and implementation of evidence-based interventions, methods of data collection and progress monitoring for school-based academic referrals within a problem-solving model. Requires 25 clinical field hours.

**Prerequisite:** SPSY 77955; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPSY 77970 LEGAL, ETHICAL AND PROFESSIONAL ISSUES IN SCHOOL PSYCHOLOGY 3 Credit Hours**

Ethical, legal and professional issues of school psychologists and counselors will be explored. Considerations of law, regulations, ethical standards and codes of professional practice of related professional organizations will be addressed.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPSY 77971 ISSUES AND APPROACHES IN SCHOOL PSYCHOLOGY 3 Credit Hours**

(Repeatable for a maximum of 6 credit hours) This course describes and illustrates contemporary elements and forces that impact professional service in school psychology practice. Students register for two consecutive semesters in conjunction with internship.

**Prerequisite:** Doctoral standing; and permission.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 3 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**SPSY 77972 SOCIAL-EMOTIONAL ASSESSMENT FOR SCHOOL PSYCHOLOGISTS 3 Credit Hours**

Training in administration, scoring and interpretation of techniques for assessment of social, emotional functioning and adaptive behavior and writing evaluation team reports. 25 clinical/field hours. Students are required to complete Bureau of Criminal Investigation and Identification (BCII) and Federal Bureau of Investigation (FBI) background checks and submit the results to authorized personnel at their assigned 'school/agency' before the first day of the semester in which student teaching/internship will take place.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPSY 77973 CONSULTATION IN THE HELPING PROFESSIONS 3 Credit Hours**

Students learn consultation skills and processes utilizing a number of professional models such as Caplan's model, behavior and problem-solving models and crisis consultation. 20 clinical/field hours.

Students are required to complete Bureau of Criminal Investigation and Identification (BCII) and Federal Bureau of Investigation (FBI) background checks and submit the results to authorized personnel at their assigned 'school/agency' before the first day of the semester in which student teaching/internship will take place.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**SPSY 77974 SOCIAL-EMOTIONAL INTERVENTIONS IN SCHOOL PSYCHOLOGY 3 Credit Hours**

Describes design and implementation of social-emotional interventions for childhood disorders. Reviews progress monitoring for school-based social and emotional referrals within an eco-behavioral problem-solving model. 25 clinical/field hours.

**Prerequisite:** SPSY 77972; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPSY 77975 HOME, SCHOOL AND COMMUNITY COLLABORATION 3 Credit Hours**

(Slashed with SPSY 67975) This course is designed to familiarize school psychologists with essential attitudes, approaches, and actions necessary to form successful family-school-community partnerships that can foster development and learning.

**Prerequisite:** School psychology major; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPSY 77980 INTEGRATING EXPERIENCE IN SCHOOL PSYCHOLOGY 2 Credit Hours**

This course requires student to research, study and develop expertise in a particular facet of school psychology and to present these findings at the conclusion of his/her training program. Restricted to students in school psychology Ed.S. program. 38 clinical field hours.

**Prerequisite:** Doctoral standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Satisfactory/Unsatisfactory

**SPSY 77992 SPECIALIST INTERNSHIP IN SCHOOL PSYCHOLOGY****1-6 Credit Hours**

(Repeatable for credit) The internship experience provides students with the opportunity to develop and practice the professional roles and functions of a school psychologist in an approved school setting. Students complete one academic year of internship in schools (minimum of 1,200 clock hours) under the supervision of a university supervisor and a certified school psychologist who is employed by a school system. Students are required to complete Bureau of Criminal Investigation and Identification (BCII) and Federal Bureau of Investigation (FBI) background checks and submit the results to authorized personnel at their assigned 'school-agency' before the first day of the semester in which student teaching internship will take place.

**Prerequisite:** School psychology major; and graduate standing; and guest students with permission.

**Schedule Type:** Practical Experience

**Contact Hours:** 7-40 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**SPSY 77995 SPECIAL TOPICS IN SCHOOL PSYCHOLOGY 1-3 Credit****Hours**

(Repeatable for credit) Presentations of special interest to students. Offered irregularly. Topics will be announced in schedule of classes booklet.

**Prerequisite:** Doctoral standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 1-3 lecture

**Grade Mode:** Standard Letter

**SPSY 77996 INDIVIDUAL INVESTIGATION IN SCHOOL PSYCHOLOGY****1-3 Credit Hours**

(Repeatable for credit) Independent reading and/or research directed by a graduate faculty member.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Individual Investigation

**Contact Hours:** 3 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**SPSY 77998 INDIVIDUAL RESEARCH IN SCHOOL PSYCHOLOGY 1-9****Credit Hours**

(Repeatable for credit) Student pursues research project on selected aspect of school psychology under supervision of instructor.

Arrangements with instructor must be made prior to registration.

**Prerequisite:** Doctoral standing; and special approval.

**Schedule Type:** Research

**Contact Hours:** 1-9 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**SPSY 80090 DOCTORAL RESIDENCY SEMINAR 3 Credit Hours**

Exploration of philosophical, definitional and attitudinal issues in the helping professions. Involvement in current activities of professional life through collaborative work with professors other students and practitioners.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Seminar

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**SPSY 80199 DISSERTATION I 15 Credit Hours**

(Repeatable for credit) Doctoral dissertation for which registration in at least two semesters is required, first of which will be semester in which dissertation work is begun and continuing until the completion of 30 hours.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Dissertation

**Contact Hours:** 3 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**SPSY 80299 DISSERTATION II 15 Credit Hours**

(Repeatable for credit) Continuing registration required of doctoral students who have completed the initial 30 hours of dissertation and continuing until all dissertation requirements are met.

**Prerequisite:** SPSY 80199; and doctoral standing.

**Schedule Type:** Dissertation

**Contact Hours:** 15 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**SPSY 87987 PROFESSIONAL SEMINAR IN SCHOOL PSYCHOLOGY 3****Credit Hours**

A professional seminar focused on the identity, history and development of school psychology with special emphasis on current professional issues.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPSY 87992 DOCTORAL INTERNSHIP IN SCHOOL PSYCHOLOGY****1-6 Credit Hours**

(Repeatable for credit) The internship experience provides students with the opportunity to develop and practice the professional roles and functions of a school psychologist in an approved school setting. Students complete one academic year of internship in schools (minimum of 1,500 clock hours) under the supervision of a university supervisor and a licensed school psychologist who is employed by a school system. Students are required to complete Bureau of Criminal Investigation and Identification (BCII) and Federal Bureau of Investigation (FBI) background checks and submit the results to authorized personnel at their assigned 'school-agency' before the first day of the semester in which student teaching internship will take place.

**Prerequisite:** School psychology major; and doctoral standing.

**Schedule Type:** Practical Experience

**Contact Hours:** 10-60 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**SPSY 87998 RESEARCH SEMINAR IN SCHOOL PSYCHOLOGY 3****Credit Hours**

(Repeatable for credit) Selected research topics in school psychology. Significant research literature is reviewed; research design methods and issues are presented and small research projects are conducted.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Research

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

## Special Education (SPED)

### SPED 23000 INTRODUCTION TO EXCEPTIONALITIES (DIVD) 3 Credit Hours

Introduction to student exceptionalities, service delivery/placement options and multidisciplinary team process. Focus on identification of characteristics definition and identification procedures of students with exceptionalities. Students will undertake 15 clinical hours.

**Prerequisite:** None.

**Schedule Type:** Clinical Laboratory, Lecture

**Contact Hours:** 3 lecture, 1 other

**Grade Mode:** Standard Letter

**Attributes:** Diversity Domestic, TAG Education

### SPED 24000 INCLUSIVE PRACTICES 3 Credit Hours

Overview of current special education issues as they relate to inclusive practices. Students gain an understanding of the challenges faced by exceptional students and analyze the responsibilities of educational professionals in addressing these challenges. Students develop a productive orientation toward effective instruction in inclusive settings through a study of legal, practical, professional and attitudinal issues relevant to inclusive education.

**Prerequisite:** SPED 23000.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

### SPED 40093 WORKSHOP IN SPECIAL EDUCATION 1-5 Credit Hours

(Slashed with SPED 50093 and SPED 70093)(Repeatable for credit)

Topics of special interest to students desiring to intensify their knowledge in particular areas. Presenters include Kent State University faculty and other institutions. Offered irregularly.

**Prerequisite:** None.

**Schedule Type:** Workshop

**Contact Hours:** 1-5 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

### SPED 42030 ISSUES IN MODERATE-INTENSIVE DISABILITIES 3 Credit Hours

(Slashed with SPED 52030) Addresses a variety of topics relevant to the education of students with moderate to intensive (MDIN) educational needs, including contemporary issues, evidence-based interventions and the understanding and addressing of mental health issues in educational environments. Prepares pre-service MDIN teachers to understand challenges they are likely to encounter in the classroom, and connects them with local and national professional development resources to help address those challenges.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

### SPED 42951 EARLY INTERVENTION IN NATURAL ENVIRONMENTS 3 Credit Hours

Course targets a broad array of early childhood professionals that comprise the field of early intervention from practitioners to future leaders in the field. Primary focus is on identifying natural opportunities for infants and toddlers to acquire and practice functional skills and behaviors. Recommended practice guidelines of the Division for Early Childhood indicate that interventions should be embedded and distributed within and across the routines, activities and places that are part of the child's daily experience. Course explores issues related to the various natural environments of the children in search of the routines, activities and places that offer the maximum learning and practice opportunities that are family-centered, developmentally and individually appropriate, culturally sensitive and least intrusive.

**Prerequisite:** Minimum 2.750 overall GPA; and junior or senior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

### SPED 43010 FAMILY AND PROFESSIONAL COLLABORATION 3 Credit Hours

(Slashed with SPED 53010) Course provides knowledge and strategies for working with family members of exceptional individuals and members of related professions who provide services to them. Use of collaborative, interdisciplinary and inter-agency models in special education. Students undertake 20 clinical and 10 field hours.

**Prerequisite:** Admission to advanced study; and SPED 23000.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

### SPED 43021 ASSESSMENT FOR SPECIAL EDUCATION 3 Credit Hours

(Slashed with SPED 53021) Investigates issues and methods for assessing the academic, behavioral, physiological, mental health, and life skills of individuals with mild, moderate, and intensive disabilities. Interpretation of norm- and criterion formal assessments, creation of alternative assessments, modification of informal assessments, ecological and community-based assessments specific to individuals with low incidence and multiple disabilities.

**Prerequisite:** SPED 23000.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

### SPED 43022 INDIVIDUALIZED PROGRAMMING AND ASSESSMENT IN SPECIAL EDUCATION 3 Credit Hours

(Slashed with SPED 53022) Course provides students with the knowledge and skills to select appropriate screening and assessment tools for the purpose of determining eligibility for special education services. In addition, students learn how to administer, score and use assessment results to develop an individualized education program (IEP) for students identified with disabilities.

**Prerequisite:** Admission to advanced standing; and SPED 24000.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter



**SPED 43030 APPLIED BEHAVIOR ANALYSIS I: THEORY AND TECHNIQUES 3 Credit Hours**

Theory and techniques associated with applied behavior analysis. Approaches for establishing, implementing, maintaining and monitoring skill development are emphasized. Procedures for assessing and modifying classroom environments/instructional techniques to enhance learning/behavior of individuals with disabilities, with specific emphasis on preventing, increasing positive and decreasing inappropriate behavior are introduced. 25 field hours.

**Prerequisite:** Admission to advanced study; and SPED 23000.

**Schedule Type:** Field Experience, Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPED 43031 APPLIED BEHAVIOR ANALYSIS II: APPLICATION 3 Credit Hours**

Equips students with the skills necessary to integrate the technology of applied behavior analysis (as learned in SPED 43030, Applied Behavior Analysis I) with the analytical skills necessary to prevent, teach, manage and assess behavior. Specific behavioral interventions are presented. Includes 40 field hours.

**Prerequisite:** Admission to advanced study; and SPED 43030.

**Schedule Type:** Field Experience, Lecture

**Contact Hours:** 1 lecture, 2 other

**Grade Mode:** Standard Letter

**SPED 43040 LANGUAGE AND READING IN SPECIAL EDUCATION 3 Credit Hours**

(Slashed with SPED 53040) Course focuses on instructional approaches to teaching reading and language arts to students with disabilities. Major emphasis throughout is on research-based techniques to improve student reading performance, focusing on the direct instruction approach to teaching reading. Students develop intervention strategies to adapt instructional techniques, materials and assessments to meet the needs of diverse learners with disabilities.

**Prerequisite:** Admission to advanced study; and SPED 23000.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPED 43041 SUPPLEMENTAL AND INTENSIVE INSTRUCTION FOR MATHEMATICAL DIFFICULTIES 3 Credit Hours**

This course provides students with the knowledge and skills to plan, deliver, and evaluate supplemental and intensive math instruction using research-based programs and practices. Data based individualization will be used to determine what and how to teach to promote mastery and understanding of critical math skills and concepts. Students learn effective strategies and instructional approaches for improving outcomes for students experiencing persistent difficulties learning math, including students with disabilities.

**Prerequisite:** Admission to advanced study.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPED 43050 CHARACTERISTICS OF STUDENTS WITH MILD/MODERATE INTERVENTION NEEDS 3 Credit Hours**

Definitions, causes and characteristics and social and educational implications of learning developmental and emotional/behavioral disorders of students identified with mild/moderate disabilities. Methods of assessment and interventions current issues. 10 clinical and 10 field hours.

**Prerequisite:** SPED 23000.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPED 43051 CHARACTERISTICS OF STUDENTS WITH MODERATE/INTENSIVE INTERVENTION NEEDS 3 Credit Hours**

Overview of specific facets and causes of severe disabilities, physical/psychological aspects, family societal responses political trends etiology and medical implications educational and vocational programming assessment and treatment planning assistive technology. 10 clinical 10 field hours.

**Prerequisite:** SPED 23000.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPED 43060 CURRICULUM METHODS IN SPECIAL EDUCATION 3 Credit Hours**

Curriculum development, programming, delivery for students with mild, moderate or intensive disabilities. Emphasis on application of state standards to IEP development. Adapting instructional techniques, materials, assessment to meet needs. 33 field/clinical hours.

**Prerequisite:** Admission to advanced study.

**Schedule Type:** Field Experience, Lecture

**Contact Hours:** 1 lecture, 2 other

**Grade Mode:** Standard Letter

**SPED 43062 CURRICULUM METHODS MILD/MODERATE INTERVENTION 3 Credit Hours**

(Slashed with SPED 53062) Effective methods for teaching students with mild to moderate disabilities. Research-based practices for individualizing the general education curriculum. Emphasis on specially designed instruction, collaboration, and team-based problem solving.

**Prerequisite:** Admission to advanced study; and SPED 24000.

**Corequisite:** SPED 44092.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPED 43063 CURRICULUM METHODS MODERATE/INTENSIVE INTERVENTION 3 Credit Hours**

(Slashed with SPED 53063) Delivery and adaptation of evidence based practices for students with moderate to intensive educational needs. An emphasis is placed on instruction of functional academic and life skills within naturalistic contexts.

**Prerequisite:** Admission to advanced study.

**Corequisite:** SPED 44192.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPED 43070 PLANNING AND PROGRAMMING FOR TRANSITIONS 3 Credit Hours**

This course discusses transitions that occur throughout the lifespan for individuals with and without disabilities, and the planning, support development and services available to successfully accomplish them. Introduction to community agencies and adult services.

**Prerequisite:** SPED 43050 or SPED 43051.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPED 43080 ASSISTIVE TECHNOLOGY FOR STUDENTS WITH DISABILITIES 3 Credit Hours**

Examines application of high and low technology assistive devices for students with intensive intervention needs. Analysis of technology needs; selection/development of technology; training/evaluation of technology use by students. 20 clinical hours.

**Prerequisite:** Admission to advanced study; and SPED 43050 or SPED 43051.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPED 43092 DEAF RESIDENTIAL SCHOOL FIELD EXPERIENCE (ELR) 1 Credit Hour**

(Repeatable for credit) Week-long practicum at a residential school for the deaf; 24-hour interaction with deaf students and adults. Students stay on campus. Conduct, interaction, sign language skills, maturity, responsibility and performance are evaluated by staff at the school.

**Prerequisite:** Admission to advanced study or admission to professional phase; and ASL 49309 or SPED 43309.

**Pre/corequisite:** ASL 29202.

**Schedule Type:** Practical Experience

**Contact Hours:** 8.33 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**Attributes:** Experiential Learning Requirement

**SPED 43306 FUNDAMENTALS OF AUDIOLOGY FOR STUDENTS WITH HEARING LOSS 3 Credit Hours**

(Slashed with SPED 53306) This course focuses on providing non-audiology majors, specifically deaf education, educational interpreting, and ASL majors, with knowledge to support and serve children with a variety of hearing disorders in the educational setting.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPED 43307 LISTENING, LANGUAGE AND PHONEMIC DEVELOPMENT FOR INDIVIDUALS WITH HEARING LOSS 3 Credit Hours**

(Slashed with SPED 53307) This class focuses on listening, language and phonemic development for individuals with hearing loss. Specific areas will focus on typical language development and the impacts of hearing loss on language development in receptive, expressive, semantic, phonological, social, morphological and syntactical domains with an emphasis on reading and written language. The Auditory-Visual continuum, SCALES, along with strategies for zone of development will be focused on with auditory development strategies.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPED 43309 INTRODUCTION TO DEAF STUDIES (ELR) (WIC) 3 Credit Hours**

(Cross-listed with ASL 49309) (Slashed with SPED 53309) Introductory survey course designed to provide informational base and understanding of the unique experiences of Deaf people as a cultural minority. Course includes a discussion of: the history of deaf education, etiology and prevalence data, service delivery systems, the process of diagnosis and discovery of hearing loss, issues associated with assessment, and the various communication systems used by deaf individuals. Specifically, topics discussed will include historical, medical, and cultural perspectives regarding the interactions between Deaf and hearing cultural groups and the resulting impact on social, academic-educational, and vocational experiences of deaf children, adults, and their families.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Experiential Learning Requirement, Writing Intensive Course

**SPED 43310 LANGUAGE DEVELOPMENT FOR DEAF AND HARD-OF-HEARING STUDENTS 3 Credit Hours**

(Slashed with SPED 53310) Reviews research, theories and theorists in the field of language development for hearing and deaf children; develops awareness of language differences commonly demonstrated by deaf and hard-of hearing children; demonstrates ways to assess linguistic differences and facilitate instruction. Six topic areas include theories of language development (review), language and cognition, normal language acquisition in signed and spoken languages, child-caregiver interaction, language learning in a bilingual setting and language assessment. Students gain foundational understanding of language development and awareness of classroom applications for this knowledge. Includes 20 hours of field-lab experience. Deaf Education majors must achieve a minimum grade of B (3.000) in SPED 43309 before registering for this course.

**Prerequisite:** Admission to advanced study; and SPED 43309; and ASL 19202; and special education major or ASL english interpreting major.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPED 43311 INSTRUCTION OF DEAF/HARD-OF-HEARING STUDENTS WITH SPECIAL NEEDS 3 Credit Hours**

IEP and transition planning strategies and program content for deaf/hard-of-hearing students w/ADHD, BD, DD, VI, DB, LD, CMI, TBI, chronically health impaired/medically fragile, gifted. Curriculum and lesson development and adaptation for impacted areas.

**Prerequisite:** Admission to advanced study; and SPED 43313 with a minimum B grade.

**Corequisite:** 2 credit hours of SPED 43392.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPED 43313 LITERACY ASSESSMENT AND INTERVENTION FOR DEAF/HARD-OF-HEARING STUDENTS 6 Credit Hours**

(Slashed with SPED 53313) Theoretical overview of integrated linguistics curriculum and reading theories. Strategies to address DHH difficulties and barriers, instructional planning and materials design, and ongoing assessment strategies. Course includes a practicum placement.

**Prerequisite:** Admission to advanced study; and SPED 43310 with a minimum B grade; and CI 47504 or ECED 40126.

**Pre/corequisite:** ASL 29202.

**Corequisite:** 2 credit hours of SPED 43392.

**Schedule Type:** Lecture

**Contact Hours:** 6 lecture

**Grade Mode:** Standard Letter

**SPED 43324 CURRICULUM METHODS AND MATERIALS FOR DEAF/HARD-OF-HEARING STUDENTS 3 Credit Hours**

Designed to provide students with basic knowledge and skills needed to effectively design and implement instruction for deaf and hard-of-hearing students. Conducted through a combination of lectures, discussions, demonstrations and group activities. Upon successful completion, students possess foundational understanding of how to design and implement lessons and curriculum with students who are deaf and hard of hearing.

**Prerequisite:** Admission to advanced study; and SPED 43313 with a minimum C grade; CI 47501 and 47502.

**Corequisite:** 2 credit hours of SPED 43392.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPED 43392 PRACTICUM:DEAF EDUCATION (ELR) 1-3 Credit Hours**

(Repeatable for a maximum of 3 credit hours) This classroom and field-based experience is designed to provide students pre-service deaf education teachers with the opportunity to develop professional-level skills in working with deaf and hard-of-hearing (DHH) students. The field component will provide experience in working with DHH students with diverse needs, disabilities and ethnic-cultural backgrounds. The class will address appropriate lesson planning and implementation and meets at least 6 times per semester.

**Prerequisite:** None.

**Schedule Type:** Practical Experience

**Contact Hours:** 3-9 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**Attributes:** Experiential Learning Requirement

**SPED 43953 FAMILY PROFESSIONAL COLLABORATION IN EARLY CHILDHOOD 3 Credit Hours**

The course is specifically designed to examine issues facing families and professionals serving young children with disabilities and those who are at-risk. This course will provide students with theory, general principles, and procedures for fostering partnerships among families, professionals, students, and other stakeholders that lead to outcomes of individual and mutual empowerment.

**Prerequisite:** Minimum 2.750 overall GPA; and junior or senior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPED 43954 PRACTICAL APPLICATION: TEAMING 3 Credit Hours**

The purpose of this course is to help students understand and apply the principles of effective collaborative teaming as related to their professional roles and responsibilities in a variety of educational settings serving young children with disabilities. A range of topics will be addressed throughout the course, including team models, consultation, reflective practices, effective meetings, conflict resolution and communication skills and coaching.

**Prerequisite:** Minimum 2.750 overall GPA; and junior or senior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPED 43955 TYPICAL AND ATYPICAL DEVELOPMENT IN YOUNG CHILDREN 3 Credit Hours**

This course provides an overview of typical and atypical development in young children from birth through age eight, both at the pre-natal and peri-natal levels. Traditional and modern theories of development are discussed within an ecological framework, with an emphasis on brain research, risk factors, culture, and the implications of atypical development as it relates to play and learning. Emphasis on the interrelatedness of development as well as the sequences of development (pedagogical, developmental and logical) is explored.

**Prerequisite:** Minimum 2.750 overall GPA; and junior or senior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPED 43958 FOUNDATIONS IN EARLY CHILDHOOD SERVICES 3 Credit Hours**

This course is designed to provide an overview of topics and issues in regard to young children with disabilities within the context of family and current society. This course is a foundational course relevant to early childhood intervention (ECI) professionals from a variety of fields, and includes the current practices in serving young children and their families. All the information provided is interdisciplinary, inclusive and family-focused by nature. The core principles of the Individuals with Disabilities Education Improvement Act (IDEIA) will be reviewed with specific emphasis on Part B 619 and Part C provisions.

**Prerequisite:** Minimum 2.750 overall GPA; and junior or senior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPED 43964 ASSESSMENT AND EVALUATION IN EARLY INTERVENTION AND EARLY CHILDHOOD SPECIAL EDUCATION 3 Credit Hours**

This course provides an overview of assessment and evaluation in early childhood services. We will examine a range of systems for comparing and observing early childhood services, practices, for young children and families including: screening, eligibility, programmatic assessment, performance monitoring, program evaluation, and accountability. The theoretical concepts of assessment and program evaluation in early childhood services will be investigated in this course, and there will also be opportunities for you to apply this knowledge of assessment instruments, curriculum and instructional strategies and program evaluation methods to intervention settings. Issues and trends related to assessing young children with disabilities (e.g., assessing family outcomes, cultural and linguistic differences) will also be discussed.

**Prerequisite:** Minimum 2.750 overall GPA; and junior or senior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPED 43991 SEMINAR IN SPECIAL EDUCATION 1-3 Credit Hours**

(Repeatable for credit) Undergraduate seminar in special education; varied topics.

**Prerequisite:** Admission to advanced study.

**Schedule Type:** Seminar

**Contact Hours:** 1-3 other

**Grade Mode:** Standard Letter

**SPED 43992 FIELD EXPERIENCE IN SPECIAL EDUCATION (ELR) 3 Credit Hours**

Provides opportunity to observe master teachers and begin working with students. Students are placed in education-based settings and work with a team of professionals to understand techniques for providing services to students with exceptionalities. Additional seminar meetings.

**Prerequisite:** SPED 23000.

**Schedule Type:** Practical Experience

**Contact Hours:** 9 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**Attributes:** Experiential Learning Requirement

**SPED 43995 SPECIAL TOPICS IN SPECIAL EDUCATION 1-4 Credit Hours**

(Repeatable for credit) Selected topics intended to encourage interdisciplinary study to cover areas not treated adequately in traditional coursework and to make available promptly the new and significant experience of faculty within Special Education.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 1-4 lecture

**Grade Mode:** Standard Letter

**SPED 43996 INDIVIDUAL INVESTIGATION IN SPECIAL EDUCATION 1-10 Credit Hours**

(Repeatable for credit) (Cross-listed with ASL 49096)

**Prerequisite:** Special approval.

**Schedule Type:** Individual Investigation

**Contact Hours:** 1-10 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**SPED 44020 MEDICAL ASPECTS OF AUTISM SPECTRUM DISORDERS 3 Credit Hours**

(Cross-listed with SPA 44020) Description of medical issues facing individuals with autism spectrum disorders (ASD) and their families. Examination of etiology, co-occurring disabilities and disorders, and treatment options in relation to individuals with ASD.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPED 44092 FIELD EXPERIENCE FOR MILD/MODERATE INTERVENTION SPECIALIST (ELR) 3 Credit Hours**

Field assignments in conjunction with mild-moderate coursework. Evaluates students in personal conduct, communication skills, instructional design and methods, and impact on student learning aligned with CEC standards.

**Prerequisite:** Admission to advanced study.

**Corequisite:** SPED 43062.

**Schedule Type:** Practical Experience

**Contact Hours:** 9 other

**Grade Mode:** Satisfactory/Unsatisfactory

**Attributes:** Experiential Learning Requirement

**SPED 44192 FIELD EXPERIENCE FOR MODERATE/INTENSIVE INTERVENTION SPECIALIST (ELR) 3 Credit Hours**

(Repeatable for credit) Field assignments in conjunction with moderate-intensive coursework. Evaluates students in personal conduct, communication skills, instructional design and methods, and impact on student learning aligned with CEC standards.

**Prerequisite:** Admission to advanced study.

**Corequisite:** SPED 43063.

**Schedule Type:** Practical Experience

**Contact Hours:** 9 other

**Grade Mode:** Satisfactory/Unsatisfactory

**Attributes:** Experiential Learning Requirement

**SPED 44309 AUTISM SPECTRUM DISORDERS: THEORY AND DIAGNOSIS 3 Credit Hours**

(Cross-listed with SPA 64309 and SPA 74309) (Slashed with SPED 64309)

Provides an overview of Autism Spectrum Disorders (ASD). Examines the history, characteristics, and prevalence of ASD. Assessment and intervention models are explored as they relate to various theoretical models for understanding ASD.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPED 44492 STUDENT TEACHING IN SPECIAL EDUCATION (ELR) 4-9 Credit Hours**

Provides opportunity to demonstrate skills in teaching. Students placed in education-based settings; assume total teaching responsibilities of students with exceptionalities for 480 clock hours under the supervision of the school-based mentor teacher and the university supervisor. Students are required to complete Bureau of Criminal Investigation and Identification (BCII) and Federal Bureau of Investigation (FBI) background checks and submit the results to authorized personnel at their assigned school-agency before the first day of the semester in which student teaching internship will take place. Official valid certification of Child Safety Training, approved Basic Life Support and A.L.I.C.E. Training must be presented to the campus office of clinical experience or designated faculty-staff at Regional campuses as prerequisite for student teaching. Training must be presented to the campus office of clinical experience or designated faculty/staff at college of applied and technical studies' campuses as prerequisite for student teaching.

**Prerequisite:** Admission to advanced study; and official valid certification of child safety Training, approved Basic Life Support and ALICE.

**Corequisite:** SPED 49525.

**Schedule Type:** Practical Experience

**Contact Hours:** 17-35 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**Attributes:** Experiential Learning Requirement



**SPED 44951 CREATING LEGALLY DEFENSIBLE INDIVIDUAL FAMILY SERVICE PLANS AND INDIVIDUALIZED EDUCATION PROGRAMS (WIC)****3 Credit Hours**

In this course, students will become familiar with the federal law and state rules as well as recommended practices governing IFSP and IEP development. Students will use this knowledge to competently develop and prepare to implement IFSP outcomes and strategies, and or IEP goals, objectives and benchmarks through the identification of appropriate strategies as well as related supports and services. Family-centered, strengths-based planning and collaboration within the teaming approach will be emphasized. Students will learn about the process of facilitating the development, implementation, and monitoring of the IFSP and IEP as well as learn about the products of this process.

**Prerequisite:** Minimum 2.750 overall GPA; and junior or senior standing.**Schedule Type:** Lecture**Contact Hours:** 3 lecture**Grade Mode:** Standard Letter**Attributes:** Writing Intensive Course**SPED 45089 VARIABLE TOPIC INTERNATIONAL EXPERIENCE IN SPECIAL EDUCATION (ELR) 1-4 Credit Hours**

(Slashed with SPED 55089 and SPED 75089) A faculty-led study abroad experience that integrates traditional classroom learning with experiential activities and site visits outside the United States. International experience courses may have pre- and post-travel classroom study. Course activities may include, but are not limited to, classroom study, research, field work, internships and service learning.

**Prerequisite:** None.**Schedule Type:** International Experience**Contact Hours:** 1-4 other**Grade Mode:** Standard Letter-IP**Attributes:** Experiential Learning Requirement**SPED 45090 VARIABLE TOPIC STUDY AWAY EXPERIENCE IN SPECIAL EDUCATION (ELR) 1-4 Credit Hours**

(Slashed with SPED 55090 and SPED 75090) A faculty-led study out-of-classroom experience that integrates traditional classroom learning with experiential activities and site visits within the United States. Study away courses may have pre- and post-travel classroom study. Course activities may include, but are not limited to, classroom study, research, field work, internships and service learning.

**Prerequisite:** None.**Schedule Type:** Study Away**Contact Hours:** 1-4 other**Grade Mode:** Standard Letter-IP**Attributes:** Experiential Learning Requirement**SPED 49525 INQUIRY SEMINAR INTO PROFESSIONAL PRACTICE 3 Credit Hours**

Focus on effective, ethical and responsible implication of professional practice. Provides vehicle to articulate and demonstrate professional competencies, commitment and ethical decision making for providing services to students.

**Prerequisite:** Admission to advanced study.**Corequisite:** SPED 44492.**Schedule Type:** Seminar**Contact Hours:** 3 other**Grade Mode:** Standard Letter**SPED 50093 VARIABLE TITLE WORKSHOP IN SPECIAL EDUCATION 1-5 Credit Hours**

(Slashed with SPED 40093 and 70093)(Repeatable for credit) Topics of special interest to students desiring to intensify their knowledge in particular areas. Presenters include Kent State University and other institution faculty. Offered irregularly.

**Prerequisite:** Graduate standing.**Schedule Type:** Workshop**Contact Hours:** 1-5 other**Grade Mode:** Satisfactory/Unsatisfactory**SPED 52030 ISSUES IN MODERATE-INTENSIVE DISABILITIES 3 Credit Hours**

(Slashed with SPED 42030) Addresses a variety of topics relevant to the education of students with moderate to intensive (MDIN) educational needs, including contemporary issues, evidence-based interventions and the understanding and addressing of mental health issues in educational environments. Prepares pre-service MDIN teachers to understand challenges they are likely to encounter in the classroom, and connects them with local and national professional development resources to help address those challenges.

**Prerequisite:** Graduate standing.**Schedule Type:** Lecture**Contact Hours:** 3 lecture**Grade Mode:** Standard Letter**SPED 53010 FAMILY AND PROFESSIONAL COLLABORATION 3 Credit Hours**

(Slashed with SPED 43010) Course provides knowledge and strategies for working with family members of exceptional individuals and members of related professions who provide services to them. Use of collaborative, interdisciplinary and inter-agency models in special education. Students undertake 20 clinical and 10 field hours.

**Prerequisite:** SPED 63200; and graduate standing.**Schedule Type:** Lecture**Contact Hours:** 3 lecture**Grade Mode:** Standard Letter**SPED 53021 ASSESSMENT FOR SPECIAL EDUCATION 3 Credit Hours**

(Slashed with SPED 43021) Investigates issues and methods for assessing the academic, behavioral, physiological, mental health, and life skills of individuals with mild, moderate, and intensive disabilities. Interpretation of norm- and criterion formal assessments, creation of alternative assessments, modification of informal assessments, ecological and community-based assessments specific to individuals with low incidence and multiple disabilities.

**Prerequisite:** Graduate standing.**Schedule Type:** Lecture**Contact Hours:** 3 lecture**Grade Mode:** Standard Letter**SPED 53022 INDIVIDUALIZED PROGRAMMING AND ASSESSMENT IN SPECIAL EDUCATION 3 Credit Hours**

(Slashed with SPED 43022) Course provides students with the knowledge and skills to select appropriate screening and assessment tools for the purpose of determining eligibility for special education services. In addition, students learn how to administer, score and use assessment results to develop an Individualized Education Program (IEP) for students identified with disabilities.

**Prerequisite:** SPED 24000; and graduate standing.**Schedule Type:** Lecture**Contact Hours:** 3 lecture**Grade Mode:** Standard Letter



**SPED 53030 APPLIED BEHAVIOR ANALYSIS I: THEORY AND TECHNIQUES 3 Credit Hours**

Theory and techniques associated with applied behavior analysis. Approaches for establishing, implementing, maintaining and monitoring skill development are emphasized. Procedures for assessing and modifying classroom environments/instructional techniques to enhance learning/behavior of individuals with disabilities, with specific emphasis on preventing, increasing positive and decreasing inappropriate behavior are introduced. 25 field hours.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPED 53031 APPLIED BEHAVIOR ANALYSIS II: APPLICATION 3 Credit Hours**

Equips students with the skills necessary to integrate the technology of applied behavior analysis (as learned in SPED 43030, Applied Behavior Analysis I) with the analytical skills necessary to prevent, teach, manage and assess behavior. Specific behavioral interventions are presented. Includes 40 field hours.

**Prerequisite:** SPED 53030; and graduate standing.

**Schedule Type:** Field Experience, Lecture

**Contact Hours:** 1 lecture, 2 other

**Grade Mode:** Standard Letter

**SPED 53040 LANGUAGE AND READING IN SPECIAL EDUCATION 3 Credit Hours**

(Slashed with SPED 43040) This course focuses on instructional approaches to teaching language and reading to students with disabilities. The major emphasis throughout the course will be on research based techniques to improve student reading performance, focusing on the direct instruction approach to teaching reading. The course will also include intervention strategies to adapt instructional techniques, materials and assessments to meet the needs of diverse learners with disabilities.

**Prerequisite:** SPED 63200; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPED 53041 SUPPLEMENTAL AND INTENSIVE INSTRUCTION FOR MATHEMATICAL DIFFICULTIES 3 Credit Hours**

(Slashed with SPED 43041) This course provides students with the knowledge and skills to plan, deliver, and evaluate supplemental and intensive math instruction using research-based programs and practices. Data based individualization will be used to determine what and how to teach to promote mastery and understanding of critical math skills and concepts. Students learn effective strategies and instructional approaches for improving outcomes for students experiencing persistent difficulties learning math, including students with disabilities.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPED 53050 CHARACTERISTICS OF STUDENTS WITH MILD/MODERATE INTERVENTION NEEDS 3 Credit Hours**

Definitions, causes, characteristics; social, educational implications of learning developmental and emotional behavioral disorders of students identified with mild/moderate disabilities. Methods of assessment and interventions; current issues. 10 clinical and 10 field hours.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPED 53051 CHARACTERISTICS OF STUDENTS WITH MODERATE/INTENSIVE INTERVENTION NEEDS 3 Credit Hours**

Overview of specific facets and causes of severe disabilities, physical/psychological aspects family/societal responses, political trends, etiology and medical implications, educational and vocational programming, assessment and treatment planning, assistive technology. 10 clinical 10 field hours.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPED 53060 CURRICULUM METHODS IN SPECIAL EDUCATION 3 Credit Hours**

Curriculum development, programming, delivery for students with mild to moderate disabilities. Introduction to transition planning. Emphasis on functional curriculum and adapting instructional techniques, materials, assessment to meet needs. 33 field clinical hours.

**Prerequisite:** Graduate standing.

**Schedule Type:** Field Experience, Lecture

**Contact Hours:** 3 lecture, 33 other

**Grade Mode:** Standard Letter

**SPED 53062 CURRICULUM METHODS MILD/MODERATE INTERVENTION 3 Credit Hours**

(Slashed with SPED 43062) Effective methods for teaching students with mild to moderate disabilities. Research-based practices for individualizing the general education curriculum. Emphasis on specially designed instruction, collaboration, and team-based problem solving.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPED 53063 CURRICULUM METHODS MODERATE/INTENSIVE INTERVENTION 3 Credit Hours**

(Slashed with SPED 43063) Delivery and adaptation of evidence based practices for students with moderate to intensive educational needs. An emphasis is placed on instruction of functional academic and life skills within naturalistic contexts.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPED 53070 PLANNING AND PROGRAMMING FOR TRANSITIONS 3 Credit Hours**

This course addresses life-span community participation and the planning, support, development, and services available to accomplish it. Introduction to community agencies and adult services. 10 clinical 15 field hours.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPED 53080 ASSISTIVE TECHNOLOGY FOR STUDENTS WITH DISABILITIES 3 Credit Hours**

Examines application of high and low technology assistive devices for students with intensive intervention needs. Analysis of technology needs; selection/development of technology; training/evaluation of technology use by students. 20 clinical hours.

**Prerequisite:** SPED 53050 or SPED 53051; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPED 53092 DEAF RESIDENTIAL SCHOOL FIELD EXPERIENCE 1 Credit Hour**

(Slashed with SPED 43092) Week-long practicum at a residential or post-secondary school for the deaf; 24-hour per day interaction with deaf students and adults to learn about and participate in activities, resources, and programs and interact with staff with expertise in deafness.

**Prerequisite:** SPED 53309; and graduate standing.

**Pre/corequisite:** ASL 29202.

**Schedule Type:** Practical Experience

**Contact Hours:** 8 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**SPED 53100 SURVEY OF THE INTERPRETING PROFESSION 3 Credit Hours**

(Cross-listed with ASEI 43100) Introduction to the field of ASL-English interpreting. The following will be discussed: the history of the interpreting profession; the varied roles-responsibilities of interpreters; issues and concerns facing interpreters; legal mandates and constraints governing the provision of interpreters; ethical guidelines and their application to educational environments. Since interpreters are expected to be fluent in both English and ASL, this course will strive to enhance students' facility with both languages.

**Prerequisite:** ASL 19202; and graduate standing.

**Pre/corequisite:** ASL 29201.

**Corequisite:** SPED 53106.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPED 53101 DEAF CULTURE AND COMMUNITY 3 Credit Hours**

(Slashed with ASL 49401) Exploration of historical events and figures from deaf community perspective. Life experiences of 'typical' deaf individuals as minority culture representatives interacting with majority culture institutions and processes as depicted in narrative storytelling and folklore.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPED 53102 INTERPRETING PROCESSES I 3 Credit Hours**

(Cross-listed with ASEI 43102) Beginning level interpreting course that examines the models of interpreting and their application to practice. Consecutive and simultaneous interpreting strategies are used to develop processing skills for both English to ASL and ASL to English interpretations. Samples of narrative genre are the texts used for interpretations as students examine the linguistic and cultural differences between ASL and English narratives.

**Prerequisite:** ASL 29202; and SPED 53100; and SPED 53107; and graduate standing.

**Corequisite:** ASL 39201 and SPED 53105.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPED 53103 INTERPRETING PROCESSES II 3 Credit Hours**

(Slashed with SPED 43103) Intermediate level interpreting course that challenges students to interpret the more complex genres including expository, procedural, and argumentative texts. Students will study and apply contextualization strategies. Discourse that is common to both the adult deaf community and educational settings will be interpreted and transliterated. There will be clinical application hours that students will need to accrue in this course.

**Prerequisite:** ASL 29202 and SPED 53102; and graduate standing.

**Pre/corequisite:** ASL 39201.

**Corequisite:** SPED 53310 and SPED 53111.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPED 53104 INTERPRETING PROCESSES III 3 Credit Hours**

(Slashed with SPED 43104) Advanced level interpreting course focused on enhancing students' English to ASL and ASL to English skills in a variety of settings. Complex texts are selected from a variety of disciplines from both community and educational settings. Students build on previously developed self-assessment skills to create detailed and analytical diagnostic charts of their interpreted work. There will be clinical application hours that students will need to accrue in this course.

**Prerequisite:** ASL 39202 and SPED 53107; and SPED 53092; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPED 53105 TRANSLITERATING 3 Credit Hours**

(Cross-listed with ASEI 43105) Students are exposed to the various English-based sign systems that are used in the education of deaf students as well as variations of sign communication in the deaf community. Focus is placed on developing transliterating skills utilizing conceptually accurate signed English. Students examine the implications of a diverse sign continuum and the professional expectation of identifying and meeting the language preferences of deaf consumers.

**Prerequisite:** SPED 53100 and ASL 29202; and graduate standing.

**Corequisite:** ASL 39201 and SPED 53102.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPED 53106 SCHOOL SETTING INTERPRETING 3 Credit Hours**

(Slashed with ASEI 43106) Issues, challenges, roles, responsibilities, and ethics of classroom-based educational interpreting are explored. Students are exposed to the variety of classroom designs where interpreters work such as mainstreaming, inclusion, resource room, and self-contained classrooms. K-12 settings place additional expectations for interpreter participation including IEP meetings, counseling, school assemblies and performing arts presentations.

**Prerequisite:** ASL 19201; ASL english interpreting (ASEI) concentration within the special education major; and graduate standing; and special approval.

**Pre/corequisite:** ASL 29201.

**Corequisite:** SPED 53100.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPED 53107 COMMUNITY SETTING INTERPRETING 3 Credit Hours**

(Cross-listed with ASEI 43107) This course explores the various venues that interpreters can work in the community. Emphasis will be given to the development of specialized vocabulary. Students participate in mock interpreting situations common to community interpreting in order to identify ethical dilemmas, demands and controls.

**Prerequisite:** Admission to the ASL english interpreting concentration with the special education major; and ASL 29201; SPED 53100; and SPED 53106; and graduate standing.

**Corequisite:** ASL 29202.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPED 53108 AMERICAN SIGN LANGUAGE LINGUISTICS AND USAGE 3 Credit Hours**

(Cross-listed with ASL 49108) Analytical study of American Sign Language syntactic, semantic, morphology and pragmatics; comparison of spoken languages and ASL using the Stokoe system, impact of educational-setting characteristics on linguistic processes.

**Prerequisite:** SPED 4/53100; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPED 53110 DISCOURSE ANALYSIS FOR INTERPRETERS 3 Credit Hours**

(Cross-listed with ASEI 43110) This course will explore the field of discourse analysis and its relation to the work of an interpreter. Students will complete the course with an understanding of terminology specific to discourse analysis, a better understanding of one's own discourse style, and a better idea of how English and ASL use various discourse features. These features include the following: Turn-taking, Conversational Repair - false starts, Discourse Markers, Constructing Dialogue & Action, Cohesion, Rhythm, Rhyme, and Repetition.

**Prerequisite:** ASL 39201; and SPED 53100 and SPED 53102 and SPED 53106 and SPED 53107.

**Corequisite:** SPED 53103.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPED 53111 THE PROFESSIONAL INTERPRETER 3 Credit Hours**

Covers current trends in the field regarding situational and ethical issues. Demand-Control Schema and the RID Code of Professional Conduct are key components of the students' investigation and application. Students receive guidance in preparing for the RID performance test.

**Prerequisite:** ASL 29202; and SPED 53100 and SPED 53107; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPED 53112 INTERACTIVE INTERPRETING 3 Credit Hours**

(Cross-listed with ASEI 43112) Guides students through a process of examining the complex nature of interpreting interactive discourse. Discussions will focus on managing this multi-layered process when participants' roles, assumptions, and goals can be congruent or adversarial. Student will learn to navigate contrasting cultural, linguistic, and discourse expectations. This course will present numerous interactive scenarios for students to interpret typical of a variety of settings with different participant configurations.

**Prerequisite:** ASL 29202 with a minimum C grade; and SPED 53100 and SPED 53103.

**Corequisite:** SPED 53102.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPED 53113 ASL TO ENGLISH INTERPRETING PROCESSES 3 Credit Hours**

(Cross-listed with ASEI 43113) Guides students in developing interpreting skills from their L2 (ASL) to their L1 (English). Students will learn strategies for increasing their ASL and English vocabularies for the purposes of understanding equivalents when applying English vocabulary to ASL signs. Students will examine their ability to apply this proficiency to various registers of ASL. Course will also emphasize incorporating Academic English into written scholarly appears to increase students' abilities to apply this to their interpretations.

**Prerequisite:** ASL 29202 and SPED 53100; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPED 53118 MEDICAL INTERPRETING 3 Credit Hours**

This course provides students with the opportunity to explore medical topics, terminologies, and areas of practice to enable them to more effectively meet the needs of deaf patients in a variety of healthcare settings. This course is designed to equip students with basic skills and knowledge to meet the demands of this setting. Students in this course will become familiar with body systems structures, functions, and common conditions-diseases affecting these systems. Students will be exposed to a variety of medical protocols, scripts, testing procedures, and areas of medical practice. As a result, students will be able to interpret medical information into ASL-appropriate structures. They will specifically be able to apply strategies of depiction and spatial mapping.

**Prerequisite:** SPED 53102; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPED 53119 MENTAL HEALTH INTERPRETING 3 Credit Hours**

This course will provide students with a foundation of common diagnoses, mental health professionals and their various roles, common mental health settings interpreters may work, and terminology paired with ASL equivalents. This course will also emphasize the relationship between interpreter and mental health professional, providing skill sets in which to pre- and post-conference to ensure an accurate interpretation is rendered, and the goals of therapist-professional have been met.

**Prerequisite:** SPED 53103; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPED 53192 ADVANCED PRACTICUM: ASL ENGLISH INTERPRETING 1-9 Credit Hours**

(Repeatable for credit) Field-based practicum experience provides pre-service interpreters with opportunity to learn from currently practicing master educational and-or community interpreters. Students will be placed in education and-or community settings. University supervisor and teacher mentor observe and assess student skill. Students are required to complete Bureau of Criminal Investigation and Identification (BCII) and Federal Bureau of Investigation (FBI) background checks and submit the results to authorized personnel at their assigned school-agency before the first day of the semester in which the internship will take place. Official valid certification of Child Safety Training, approved Basic Life Support, and A.L.I.C.E. Training must be presented to the campus office of clinical experience or designated faculty-staff at Regional campuses before registering for this course. Students must pass the SLPI or ASLPI on or before Oct. 31st the semester prior. A 3.000 major GPA is required.

**Prerequisite:** SPED 53104, SPED 53112 and ASL 49108; minimum 2.75 overall GPA; and graduate standing; and special approval.

**Schedule Type:** Practical Experience

**Contact Hours:** 3-27 other

**Grade Mode:** Satisfactory/Unsatisfactory

**SPED 53306 FUNDAMENTALS OF AUDIOLOGY FOR STUDENTS WITH HEARING LOSS 3 Credit Hours**

(Slashed with SPED 43306) This course focuses on providing non-audiology majors, specifically deaf education, educational interpreting, and ASL majors, with knowledge to support and serve children with a variety of hearing disorders in the educational setting.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPED 53307 LISTENING, LANGUAGE AND PHONEMIC DEVELOPMENT FOR INDIVIDUALS WITH HEARING LOSS 3 Credit Hours**

(Slashed with SPED 43307) This class focuses on listening, language and phonemic development for individuals with hearing loss. Specific areas will focus on typical language development and the impacts of hearing loss on language development in receptive, expressive, semantic, phonological, social, morphological and syntactical domains with an emphasis on reading and written language. The Auditory-Visual continuum, SCALES, along with strategies for zone of development will be focused on with auditory development strategies.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPED 53309 INTRODUCTION TO DEAF STUDIES 3 Credit Hours**

(Cross-listed with ASL 49309) (Slashed with SPED 43309) Introductory survey course designed to provide informational base and understanding of the unique experiences of Deaf people as a cultural minority. Course includes a discussion of: the history of deaf education, etiology and prevalence data, service delivery systems, the process of diagnosis and discovery of hearing loss, issues associated with assessment, and the various communication systems used by deaf individuals. Specifically, topics discussed will include historical, medical, and cultural perspectives regarding the interactions between Deaf and hearing cultural groups and the resulting impact on social, academic-educational, and vocational experiences of deaf children, adults, and their families.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPED 53310 LANGUAGE DEVELOPMENT FOR DEAF AND HARD-OF-HEARING STUDENTS 3 Credit Hours**

Reviews research, theories and theorists in the field of language development for hearing and deaf children; develops awareness of language differences commonly demonstrated by deaf and hard-of-hearing children; demonstrates ways to assess linguistic differences and facilitate instruction. Six topic areas include theories of language development (review), language and cognition, normal language acquisition in signed and spoken languages, child-caregiver interaction, language learning in a bilingual setting and language assessment. Students gain foundational understanding of language development and awareness of classroom applications for this knowledge. Includes 20 hours of field-lab experience. Deaf Education majors must achieve a minimum grade of B (3.000) in SPED 53309 before registering for this course.

**Prerequisite:** SPED 53309 and ASL 19202; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPED 53311 INSTRUCTION OF DEAF/HARD-OF-HEARING STUDENTS WITH SPECIAL NEEDS 3 Credit Hours**

IEP and transition planning strategies and program content for deaf/hard-of-hearing students with ADHD, BD, DD,VI,DB, LD, CMI, TBI, chronically health impaired/medically fragile, gifted. Curriculum and lesson development and adaptation for impacted areas.

**Prerequisite:** SPED 53313 with a minimum B grade; and graduate standing.

**Corequisite:** 2 credit hours of SPED 63392.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPED 53313 LITERACY ASSESSMENT AND INTERVENTION FOR DEAF/HARD-OF-HEARING STUDENTS 6 Credit Hours**

Theoretical overview of integrated linguistics curriculum and reading theories. Strategies to address DHH difficulties and barriers, instructional planning and materials design, and ongoing assessment strategies. Course includes a practicum placement.

**Prerequisite:** SPED 53310 with a minimum B grade; and CI 67310 or CI 57504; and graduate standing.

**Pre/corequisite:** ASL 29202 and 2 credit hours of SPED 63392.

**Schedule Type:** Lecture

**Contact Hours:** 6 lecture

**Grade Mode:** Standard Letter



**SPED 53316 EARLY CHILDHOOD DEAF EDUCATION: FAMILY AND CHILD SERVICE PROVISION 3 Credit Hours**

Targets the issues and needs of young deaf/hard-of-hearing children and their families. Topics covered relate to service provision in the home and classroom for deaf/hard-of-hearing children from birth to 5 years of age. Includes 30 hours of work in a practicum placement with a young D/HH child and his/her family.

**Prerequisite:** SPED 4/53310; ASL/SPED 29202 or sign language proficiency interview (SLPI) at intermediate or above; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPED 53324 CURRICULUM METHODS AND MATERIALS FOR DEAF/HARD OF HEARING STUDENTS 3 Credit Hours**

Designed to provide students with basic knowledge and skills needed to effectively design and implement instruction for deaf and hard-of-hearing students. Conducted through a combination of lectures, discussions, demonstrations and group activities. Upon successful completion, students possess foundational understanding of how to design and implement lessons and curriculum with students who are deaf and hard of hearing.

**Prerequisite:** SPED 53313 with a minimum B grade; and CI 57501 and 57502; and graduate standing.

**Corequisite:** 2 credit hours of SPED 63392.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPED 53534 SOCIAL/EMOTIONAL COMPONENTS OF GIFTEDNESS 3 Credit Hours**

Affective growth of gifted persons is reviewed through research literature and analysis of case studies. Reviews adjustment problems of gifted youth and adults.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPED 55089 VARIABLE TOPIC INTERNATIONAL EXPERIENCE IN SPECIAL EDUCATION 1-4 Credit Hours**

(Slashed with SPED 45089 and SPED 75089) A faculty-led study abroad experience that integrates traditional classroom learning with experiential activities and site visits outside the United States. International experience courses may have pre- and post-travel classroom study. Course activities may include, but are not limited to, classroom study, research, field work, internships and service learning.

**Prerequisite:** Graduate standing.

**Schedule Type:** International Experience

**Contact Hours:** 1-4 other

**Grade Mode:** Standard Letter-IP

**SPED 55090 VARIABLE TOPIC STUDY AWAY EXPERIENCE IN SPECIAL EDUCATION 1-4 Credit Hours**

(Slashed with SPED 45090 and SPED 75090) A faculty-led study out-of-classroom experience that integrates traditional classroom learning with experiential activities and site visits within the United States. Study away courses may have pre- and post-travel classroom study. Course activities may include, but are not limited to, classroom study, research, field work, internships and service learning.

**Prerequisite:** Graduate standing.

**Schedule Type:** Study Away

**Contact Hours:** 1-4 other

**Grade Mode:** Standard Letter-IP

**SPED 60199 THESIS I 2-6 Credit Hours**

Thesis students must register for a total of 6 hours, 2 to 6 hours in a single semester distributed over several semesters if desired.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Masters Thesis

**Contact Hours:** 2-6 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**SPED 60299 THESIS II 2 Credit Hours**

Thesis students must continue registration each semester until all degree requirements are met.

**Prerequisite:** SPED 60199; and graduate standing.

**Schedule Type:** Masters Thesis

**Contact Hours:** 2 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**SPED 62951 EARLY INTERVENTION IN NATURAL ENVIRONMENTS 3 Credit Hours**

This seminar targets early childhood special education and intervention professionals that comprise the field of early intervention from practitioners to future leaders in the field. Recommended practice guidelines of the Division for Early Childhood (DEC) indicate that interventions should be embedded and distributed within and across the routines, activities and places that are part of the child's daily experience. In keeping with DEC recommendations, this course will explore issues related to the various natural environments of the children in search of the routines, activities, and places that offer the maximum learning and practice opportunities that are family centered, developmentally and individually appropriate, culturally sensitive, and least intrusive.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPED 63030 PHARMACOLOGICAL INTERVENTIONS IN SPECIAL EDUCATION 3 Credit Hours**

Introduce mechanisms by which drugs act; identify benefits/side effects; implications for delivery/ intervention; monitoring in classroom. Classes of drugs examined; issues examined; delineation of responsibilities and prohibitions.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter



**SPED 63031 PROGRAM DEVELOPMENT IN APPLIED BEHAVIOR ANALYSIS 3 Credit Hours**

Describe and apply methodology and research design in developing and monitoring the effectiveness of behavioral interventions and to use such information to evaluate overall program efficacy. Consideration is given to student characteristics (e.g., underlying disability) when developing and evaluating behavior programs based in applied behavior analysis. Use of specific tools for prioritizing behaviors, evaluating progress, and making treatment program decisions are presented. Issues related to treatment implementation fidelity and behavioral program development are also emphasized.

**Prerequisite:** Graduate standing.

**Pre/corequisite:** SPED 53030.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPED 63032 ADVANCED INTERVENTIONS FOR ADDRESSING SEVERE BEHAVIOR 3 Credit Hours**

Use and interpretation of functional behavioral assessment in educational settings to lead to the identification of empirically-supported interventions to address the behavioral needs of children. The development, implementation and analysis of functional analysis procedures. Special emphasis given to identifying designing, implementing and assessing the effectiveness of advanced behavioral interventions in consultation. 20 field hours.

**Prerequisite:** SPED 53030, SPED 53031, SPED 63031, SPED 63301 and SPED 63033; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPED 63033 ETHICAL AND PROFESSIONAL CONDUCT IN APPLIED BEHAVIOR ANALYSIS 3 Credit Hours**

This course provides an intensive focus on ethical and professional conduct as it applies to day-to-day implementation of applied behavior analytic strategies by professional behavior analysts. Responsible conduct of a behavior analyst, ethical responsibilities to clients, colleagues, the field of applied behavior analysis, and society are featured. BACB Guidelines for Responsible Conduct for Behavior Analyst and BACB Disciplinary and Ethical Standards are reviewed and studied. This course focuses on meeting the updated standards for ethics set forth by the Behavior Analyst Certification Board in the BACB Fourth Edition Task List.

**Prerequisite:** SPED 53030 and SPED 63031; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPED 63034 PRINCIPLES AND CONCEPTS IN APPLIED BEHAVIOR ANALYSIS 3 Credit Hours**

This course focuses on the advanced conceptual, philosophical, and theoretical underpinnings of applied behavior analysis and the research literature from which they were derived. This course is designed for those who will pursue certification through the Behavior Analyst Certification Board, and as such, delves deep into the technical aspects of the science of applied behavior analysis. Students will become fluent in such areas as the theories of behavior, principles of operant and respondent conditioning, stimulus class, automatic and socially mediated contingencies, motivating operations, and stimulus control, as well as be able to identify and describe examples of how they are used. **Prerequisite:** Admission to Behavior Intervention Specialist Certificate; and graduate standing

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPED 63092 FIELD EXPERIENCE IN SPECIAL EDUCATION 3 Credit Hours**

Provides opportunity to observe master teachers and begin working with students. Students are placed in education-based settings and work with a team of professionals to understand techniques for providing services to students with exceptionalities. Additional seminar meetings.

**Prerequisite:** Graduate standing.

**Schedule Type:** Practical Experience

**Contact Hours:** 9 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**SPED 63101 ADMINISTRATION AND SUPERVISION IN SPECIAL EDUCATION 3 Credit Hours**

Administration of educational programs for exceptional children; improvement of teacher competencies; function of special education supervisors; and special education operations at local, state and national levels.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPED 63200 INTRODUCTION TO EXCEPTIONALITIES 3 Credit Hours**

Introduction to exceptionalities of student development. Focus on foundations/theories associated with characteristics and accommodations for human exceptionalities. Collaborative/multidiscipline educational service design. Fifteen clinical/field hours.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPED 63201 CONTEMPORARY ISSUES IN SPECIAL EDUCATION 3 Credit Hours**

(Slashed with SPED 83201) Surveys current research, literature and policy issues that affect identification, assessment and service provision to students with exceptionalities.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPED 63204 LEGAL AND POLICY FOUNDATIONS OF SPECIAL EDUCATION 3 Credit Hours**

(Slashed with SPED 73204) This course will review the statutory and regulatory foundations of U.S. public policies pertaining to children and youth with disabilities. Key judicial interpretations of those policies will also be reviewed. The course will provide comprehensive overviews of The Individuals with Disabilities Education Act, The Every Student Succeeds Act, The Americans with Disabilities Act, The Vocational Rehabilitation Act, relevant sections of The Social Security Act. In addition, students will gain an awareness of miscellaneous other pieces of legislation and examples of case law pertaining to the education of students with disabilities.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPED 63300 RESEARCH APPLICATIONS IN SPECIAL EDUCATION 3 Credit Hours**

(Slashed with SPED 73300) Culminating experience in which students apply their content, methods and research skills to develop a final project that addresses an area of special education. Focuses on techniques for answering research questions, developing curriculum, and assimilating knowledge through applied projects.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter-IP

**SPED 63301 SINGLE SUBJECT RESEARCH METHODS 3 Credit Hours**

(Repeatable 2 times for credit) Research designs and techniques associated with behavioral observation and a description of single subject experimental methodology are presented. The study of this methodology includes topics related to applied behavior analysis, assessment, experimental design and data evaluation. In addition, single subject methods are discussed in relations to other research designs. 20 field hours.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter-IP

**SPED 63392 PRACTICUM IN DEAF EDUCATION 1-3 Credit Hours**

(Repeatable for a maximum of 3 credit hours) This classroom and field-based experience is designed to provide students pre-service deaf education teachers with the opportunity to develop professional-level skills in working with deaf and hard-of-hearing (DHH) students. The field component will provide experience in working with DHH students with diverse needs, disabilities and ethnic-cultural backgrounds. The class will address appropriate lesson planning and implementation and meets at least 6 times per semester.

**Prerequisite:** Graduate standing.

**Schedule Type:** Practical Experience

**Contact Hours:** 3-9 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**SPED 63533 GIFTED SUBPOPULATIONS 3 Credit Hours**

The characteristics and needs of intellectually gifted individuals who often are not high academic achievers are studied with consideration of the implications for school practices.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPED 63892 EARLY INTERVENTION INTERNSHIP 3 Credit Hours**

(Repeatable for a maximum of 9 credit hours) The Early Intervention Internship involves supervised observation and participation in an early intervention setting(s) for children ages birth to three with developmental delays and disabilities or supervised observation and participation in research and scholarly activities related to the development, delivery, and evaluation of early intervention services to children and their families. Students may be placed at a county board of developmental disabilities, center-, community-, or home-based early intervention program, a developmental center, childcare center, a neonatal intensive care unit (NICU) or other approved placement. The Early Intervention internship will provide students practical experience in an Early Intervention professional setting, one that allows students to develop and refine a variety of skills when working with infants and toddlers with disabilities and their families.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Field Experience

**Contact Hours:** 9 other

**Grade Mode:** Satisfactory/Unsatisfactory

**SPED 63949 AUTISM SPECTRUM DISORDER CAPSTONE 1-3 Credit Hours**

Knowledge and skills gained through participation in the Autism Spectrum Disorders (ASD) program are utilized to develop a project related to the education of individuals with ASD and-or the individuals who support them.

**Prerequisite:** Graduate standing.

**Schedule Type:** Individual Investigation

**Contact Hours:** 3-9 other

**Grade Mode:** Satisfactory/Unsatisfactory

**SPED 63950 CURRICULUM AND INTERVENTION IN EARLY CHILDHOOD SERVICES 3 Credit Hours**

(Slashed with SPED 73950) Knowledge about early childhood intervention (ECI) curriculum and intervention. Students will first learn about what evidence-based practice is, and the curriculum models for home-based and center-based settings. Students will then learn about the ECI multi-tiered systems of support framework, and the different characteristics and intervention strategies across tiers. At the end of the course, students will be ready to support the diverse needs of young children using the multi-tiered system of support in early childhood settings.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPED 63952 FAMILY AND PROFESSIONAL COLLABORATION IN EARLY CHILDHOOD 3 Credit Hours**

(Cross-listed with ECED 60159) Examines issues facing families and professionals serving young children who are at-risk, disabled and typically developing.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPED 63953 PRACTICAL APPLICATIONS: BIRTH TO FIVE 3 Credit Hours**

Practical application of recommended practices for young children birth to five. Observation of young children in natural environments. Plan and evaluate intervention with families and professionals. Sixty field hours.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPED 63954 PRACTICAL APPLICATIONS: TEAMING 3 Credit Hours**

The purpose of this course is to help students understand and apply the principles of effective collaborative teaming as related to their professional roles and responsibilities in a variety of educational settings serving young children with disabilities. A range of topics will be addressed throughout the course, including giving and receiving feedback, reflective practices, effective meeting, conflict resolution and communication skills, developing and providing quality professional development, supervising, coaching, mentoring, working with para-professionals, itinerant teaching, service coordination, and consulting with general educators.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPED 63955 TYPICAL AND ATYPICAL DEVELOPMENT IN YOUNG CHILDREN 3 Credit Hours**

Overview of typical and atypical development pathways from birth to grade 3 including: theories of behavior, implications of atypical development on play, learning, early childhood development within ecological framework.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPED 63956 FOUNDATIONS IN EARLY CHILDHOOD SERVICES 3 Credit Hours**

(Cross-listed with ECED 60156) (Slashed with SPED 73956) Overview of issues facing young children within context of family/society including: history, early childhood services, theoretical perspectives, implications of childhood disabilities, and recommended assessment intervention and evaluation.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPED 63957 ASSESSMENT AND EVALUATION OF EARLY CHILDHOOD SERVICES 3 Credit Hours**

(Slashed with SPED 73957) Examines a range of systems for comparing and observing early childhood services, practices, young children and families: types and purposes of assessment procedures and instruments, monitoring progress.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPED 63958 EARLY CHILDHOOD INTERVENTION METHODS 3 Credit Hours**

Specific strategies for working with children birth to eight with intensive needs (e.g. cerebral palsy, spina bifida, autism). 30 clinical hours will provide students with the opportunity to practice newly acquired intervention strategies, knowledge and skills.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPED 63959 MEDICAL ASPECTS OF LIFESPAN DISABILITIES 3 Credit Hours**

Description of medical issues facing individuals with lifespan disabilities and their families. Examination of etiology, co-occurring disabilities and disorders, and treatment options in relation to individuals with Autism Spectrum Disorders and other developmental disabilities.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPED 63991 SEMINAR IN SPECIAL EDUCATION 1-3 Credit Hours**

(Repeatable for credit) Various topics include: behavior modification, research problems in special education, theories in special education, social processes in special education.

**Prerequisite:** Graduate standing.

**Schedule Type:** Seminar

**Contact Hours:** 1-3 other

**Grade Mode:** Standard Letter

**SPED 63992 STUDENT TEACHING IN SPECIAL EDUCATION 4-8 Credit Hours**

(Repeatable for maximum of 8 credit hours) Provides opportunity to demonstrate skills in teaching. Students placed in education-based settings; assume total teaching responsibilities of students with exceptionalities for 480 clock hours under the supervision of the school-based mentor teacher and the university supervisor. Students are required to complete Bureau of Criminal Investigation and Identification (BCII) and Federal Bureau of Investigation (FBI) background checks and submit the results to authorized personnel at their assigned school agency before the first day of the semester in which student teaching internship will take place. Official valid certification of Child Safety Training, approved Basic Life Support and A.L.I.C.E. Training must be presented to the campus office of clinical experience or designated faculty-staff at Regional campuses as prerequisite for student teaching. Training must be presented to the campus office of clinical experience or designated faculty/staff at college of applied and technical studies' campuses as prerequisite for student teaching; and graduate standing; and special approval.

**Prerequisite:** Official valid certification of Child Safety Training, approved Basic Life Support and ALICE.

**Corequisite:** SPED 69525.

**Schedule Type:** Practical Experience

**Contact Hours:** 17-35 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**SPED 63995 SPECIAL TOPICS IN SPED 1-3 Credit Hours**

(Repeatable for credit) Specialized offerings in response to emerging or selected program needs.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 1-3 lecture

**Grade Mode:** Standard Letter

**SPED 63996 INDIVIDUAL INVESTIGATION IN SPECIAL EDUCATION****1-10 Credit Hours**

(Repeatable for credit)

**Prerequisite:** Graduate standing; and special approval.**Schedule Type:** Individual Investigation**Contact Hours:** 1-10 other**Grade Mode:** Satisfactory/Unsatisfactory-IP**SPED 63998 RESEARCH:SPECIAL EDUCATION 1-10 Credit Hours**

(Repeatable for credit)

**Prerequisite:** Graduate standing; and special approval.**Schedule Type:** Research**Contact Hours:** 1-10 other**Grade Mode:** Satisfactory/Unsatisfactory-IP**SPED 64200 CURRICULUM METHODS FOR TRANSITION PLANNING AND COLLABORATION 3 Credit Hours**

This course focuses upon the development of transition agreements and collaboration between secondary transition specialists and other transition stakeholders (e.g., elementary school regular educators, parents of students with disabilities, adult service programs). Particular emphasis is placed upon infusing vocational, and non-vocational, transition planning in the curricula for individuals with moderate-to-intensive disabilities at all academic grade levels. 100 field hours are required for this course.

**Prerequisite:** SPED 53070; and graduate standing.**Schedule Type:** Lecture**Contact Hours:** 3 lecture**Grade Mode:** Standard Letter**SPED 64309 AUTISM SPECTRUM DISORDERS: THEORY AND DIAGNOSIS 3 Credit Hours**

(Cross-listed with SPA 64309 and SPA 74309) (Slashed with SPED 44309)

Provides an overview of Autism Spectrum Disorders (ASD). Examines the history, characteristics, and prevalence of ASD. Assessment and intervention models are explored as they relate to various theoretical models for understanding ASD.

**Prerequisite:** Graduate standing.**Schedule Type:** Lecture**Contact Hours:** 3 lecture**Grade Mode:** Standard Letter**SPED 64310 AUTISM SPECTRUM DISORDERS: LIFESPAN INTERVENTIONS 3 Credit Hours**

(Cross-listed with SPA 64310 and SPA 74310) Provides students with a review of the significant aspects related to educational, social, vocational transitions for children, adolescents, and young adults with Autism Spectrum Disorders (ASD). Students learn skills necessary to evaluate and develop programs designed to meet the changing and long term needs of individuals with ASD.

**Prerequisite:** Graduate standing.**Schedule Type:** Lecture**Contact Hours:** 3 lecture**Grade Mode:** Standard Letter**SPED 64892 ADVANCED PRACTICUM 3,4 Credit Hours**

(Repeatable for credit) The purpose of this advanced practicum is to integrate the knowledge and skills acquired through prior curricula to a field-based setting assisting individuals with disabilities. Settings may include, but are not limited to, general education and special education classrooms as well as therapeutic, residential and vocational programs.

**Prerequisite:** Graduate standing; and special approval.**Schedule Type:** Practical Experience**Contact Hours:** 9-12 other**Grade Mode:** Satisfactory/Unsatisfactory-IP**SPED 64951 DEVELOPING AN INDIVIDUALIZED FAMILY SERVICE PLAN AND INDIVIDUALIZED EDUCATION PROGRAM 3 Credit Hours**

Designed to increase students understanding regarding federal and state rules for developing IEPs for P-12 students and IFSPs for young children and their families. Students will learn how to write functional and measurable IEP goals, objectives and IFSP outcomes, and to use assessment information directly for identifying, writing, and monitoring IFSP outcomes and IEP goals. This course will also teach how to form partnerships with families around developing, implementing and evaluating the IFSP and IEP.

**Prerequisite:** Graduate standing.**Schedule Type:** Lecture**Contact Hours:** 3 lecture**Grade Mode:** Standard Letter**SPED 69525 INQUIRY PROFESSIONAL PRACTICE 3 Credit Hours**

This course is to support students during their student teaching experience in the last semester of the program. Planning for instruction and assessment, instructing and engaging students in various special education settings, and assessing learning outcomes are the focus of this course. The course also includes information specific to the professional responsibilities in their placements.

**Prerequisite:** Graduate standing.**Corequisite:** SPED 63992.**Schedule Type:** Lecture**Contact Hours:** 3 lecture**Grade Mode:** Standard Letter**SPED 70093 VARIABLE TITLE WORKSHOP IN SPECIAL EDUCATION 1-5 Credit Hours**

(Slashed with SPED 40093 and SPED 50093)(Repeatable for credit)

Topics of special interest to students desiring to intensify their knowledge in particular areas. Presenters include Kent State University and other institution faculty. Offered irregularly.

**Prerequisite:** Doctoral standing.**Schedule Type:** Workshop**Contact Hours:** 1-5 other**Grade Mode:** Satisfactory/Unsatisfactory**SPED 70094 COLLEGE TEACHING 3 Credit Hours**

(Repeatable for credit) Discusses major aspects of teaching in higher education, including such topics as students' philosophy of teaching, principles of adult learning, instructional strategies, students' assessment.

**Prerequisite:** Doctoral standing.**Schedule Type:** Lecture**Contact Hours:** 3 lecture**Grade Mode:** Standard Letter**SPED 73030 PHARMACOLOGICAL INTERVENTIONS IN SPECIAL EDUCATION 3 Credit Hours**

Introduce mechanisms by which drugs act; identify benefits/side effects; implications for delivery/intervention; monitoring in classroom. Classes of drugs examined; issues examined; delineation of responsibilities and prohibitions.

**Prerequisite:** Doctoral standing.**Schedule Type:** Lecture**Contact Hours:** 3 lecture**Grade Mode:** Standard Letter



**SPED 73204 LEGAL AND POLICY FOUNDATIONS OF SPECIAL EDUCATION 3 Credit Hours**

(Slashed with SPED 63204) This course will review the statutory and regulatory foundations of U.S. public policies pertaining to children and youth with disabilities. Key judicial interpretations of those policies will also be reviewed. The course will provide comprehensive overviews of The Individuals with Disabilities Education Act, The Every Student Succeeds Act, The Americans with Disabilities Act, The Vocational Rehabilitation Act, relevant sections of The Social Security Act. In addition, students will gain an awareness of miscellaneous other pieces of legislation and examples of case law pertaining to the education of students with disabilities.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPED 73300 RESEARCH APPLICATIONS IN SPECIAL EDUCATION 3 Credit Hours**

(Slashed with SPED 63300) Culminating experience in which students apply their content, methods and research skills to develop a final project that addresses an area of special education. Focuses on techniques for answering research questions, developing curriculum, and assimilating knowledge through applied projects.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter-IP

**SPED 73950 CURRICULUM AND INTERVENTION IN EARLY CHILDHOOD SERVICES 3 Credit Hours**

(Slashed with SPED 63950) Knowledge about early childhood intervention (ECI) curriculum and intervention. Students will first learn about what evidence-based practice is, and the curriculum models for home-based and center-based settings. Students will then learn about the ECI multi-tiered systems of support framework, and the different characteristics and intervention strategies across tiers. At the end of the course, students will be ready to support the diverse needs of young children using the multi-tiered system of support in early childhood settings.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPED 73956 FOUNDATIONS IN EARLY CHILDHOOD SERVICES 3 Credit Hours**

(Cross-listed with ECED 60156) (Slashed with SPED 63956) Overview of issues facing young children within context of family/society including: history, early childhood services, theoretical perspectives, implications of childhood disabilities, and recommended assessment intervention and evaluation.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPED 73957 ASSESSMENT AND EVALUATION OF EARLY CHILDHOOD SERVICES 3 Credit Hours**

(Slashed with SPED 73957) Examines a range of systems for comparing and observing early childhood services, practices, young children and families: types and purposes of assessment procedures and instruments monitoring progress.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPED 73991 SEMINAR IN SPECIAL EDUCATION 1,3 Credit Hour**

(Repeatable for credit) Various topics include: behavior modification, research problems in special education, theories in special education, social processes in special education.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Seminar

**Contact Hours:** 1-3 other

**Grade Mode:** Standard Letter

**SPED 73995 SPECIAL TOPICS IN SPED 1-3 Credit Hours**

(Repeatable for credit) Specialized offerings in response to emerging or selected program needs.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 1-3 lecture

**Grade Mode:** Standard Letter

**SPED 73996 INDIVIDUAL INVESTIGATION IN SPECIAL EDUCATION 1-10 Credit Hours**

(Repeatable for credit)

**Prerequisite:** Doctoral standing; and special approval.

**Schedule Type:** Individual Investigation

**Contact Hours:** 1-10 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**SPED 74200 CURRICULUM METHODS FOR TRANSITION PLANNING AND COLLABORATION 3 Credit Hours**

(Slashed with SPED 64200) This course focuses upon the development of transition agreements and collaboration between secondary transition specialists and other transition stakeholders (e.g., elementary school regular educators, parents of students with disabilities, adult service programs). Particular emphasis is placed upon infusing vocational, and non-vocational, transition planning in the curricula for individuals with moderate-to-intensive disabilities at all academic grade levels. 100 field hours are required for this course.

**Prerequisite:** SPED 53070; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPED 75089 VARIABLE TOPIC INTERNATIONAL EXPERIENCE IN SPECIAL EDUCATION 1-4 Credit Hours**

(Slashed with SPED 45089 and SPED 55089) A faculty-led study abroad experience that integrates traditional classroom learning with experiential activities and site visits outside the United States. International experience courses may have pre- and post-travel classroom study. Course activities may include, but are not limited to, classroom study, research, field work, internships and service learning.

**Prerequisite:** Doctoral standing.

**Schedule Type:** International Experience

**Contact Hours:** 1-4 other

**Grade Mode:** Standard Letter-IP



**SPED 75090 VARIABLE TOPIC STUDY AWAY EXPERIENCE IN SPECIAL EDUCATION 1-4 Credit Hours**

(Slashed with SPED 45090 and SPED 55090) A faculty-led study out-of-classroom experience that integrates traditional classroom learning with experiential activities and site visits within the United States. Study away courses may have pre- and post-travel classroom study. Course activities may include, but are not limited to, classroom study, research, field work, internships and service learning.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Study Away

**Contact Hours:** 1-4 other

**Grade Mode:** Standard Letter-IP

**SPED 80001 SPECIAL EDUCATION RESIDENCY 3 Credit Hours**

This course is designed to provide beginning SPED doctoral students skills and knowledge in the following global areas: information literacy and plagiarism, basic APA style writing and building a writing routine. Additionally, the course will prepare students in the following SPED specific areas: effectively synthesizing intervention based empirical research, establishing a line of inquiry in the disability related fields, and developing a CV for disability related positions in Higher Education. Overall, the course will help students to understand life in academia during the doctoral studies in SPED and life after graduation conducting timely SPED research and teaching SPED content (e.g., institutional differences for SPED higher education jobs, tenure, work and life balance, time management, etc).

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter-IP

**SPED 80002 ANALYSIS OF THE LITERATURE IN SPECIAL EDUCATION 3 Credit Hours**

This course is designed to assist doctoral students in the acquisition, organization, and interpretation of information about research in special education. The seminar introduces students to the nature of inquiry and the process of generating questions about a broad array of disability-related research topics. Students will gain knowledge to analyze critically the outcomes of research in special education.

**Prerequisite:** SPED 80001; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter-IP

**SPED 80003 IMPLEMENTATION SCIENCE IN SPECIAL EDUCATION 3 Credit Hours**

This course is designed to provide students an overview of implementation science, and seminal leadership and systems change literature. The course will describe current state of the science of implementation, and identify strategies that foster the effective transmission and implementation of innovative programs in intervention focused disability studies special education fields. Students analyze and apply the literature at the teacher, family, school building, district, state and federal levels. Students will gain skills and knowledge in implementation drivers that have the potential in reducing the research to practice gap, and increasing the integration of evidence based practices. Strategies for developing and mobilizing stakeholders to support the process of change will be covered.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPED 80005 EMPIRICAL INVESTIGATIONS IN SPECIAL EDUCATION 3 Credit Hours**

The course is intended to help students solidify their knowledge, skills, and dispositions related to research design, research methods, and scholarly writing by applying and expanding them in the context of special education research. Students will review and analyze quality indicators for special education research, critique select special education research literature, and develop a preliminary research proposal.

**Prerequisite:** SPED 80002; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**SPED 80040 RESEARCH GRANT DEVELOPMENT FOR DISABILITY PROGRAMS 3 Credit Hours**

Students develop and write research proposals for grant competitions focusing on disability issues. Considerations for types of competitions and funding sources are discussed. Focus of instruction is related to how to describe the importance of the research proposed, research methods identified, budget, administration of grant activities and evaluation of implementation.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Seminar

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter-IP

**SPED 80090 DOCTORAL RESIDENCY SEMINAR 3 Credit Hours**

Provides students with the opportunity to synthesize courses, research and practice by focusing on diverse issues and topics. Ordinarily, SPED 80090 is taken no earlier than the second year of doctoral studies as a culminating course in the doctoral sequence.

**Prerequisite:** Doctoral standing; and special approval.

**Schedule Type:** Seminar

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**SPED 80091 DOCTORAL RESIDENCY SEMINAR 3 Credit Hours**

Provides students with the opportunity to synthesize courses, research and practice by focusing on diverse issues and topics. Ordinarily, SPED 80091 is taken no earlier than the second year of doctoral studies as a culminating course in the doctoral sequence.

**Prerequisite:** Doctoral standing; and special approval.

**Schedule Type:** Seminar

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**SPED 80092 PRACTICUM IN COLLEGE TEACHING 3 Credit Hours**

(Repeatable for credit) This course will provide the student supervised experience in design, delivery, and evaluation of a college course in special education. The student will demonstrate skills learned in the pre-requisite course (SPED 70094) under the supervision of a designated special education faculty member.

**Prerequisite:** Doctoral standing.

**Pre/corequisite:** SPED 70094.

**Schedule Type:** Practical Experience

**Contact Hours:** 9 other

**Grade Mode:** Satisfactory/Unsatisfactory

**SPED 80199 DISSERTATION I 15 Credit Hours**

(Repeatable for credit) Doctoral dissertation for which registration in at least two semesters is required, first of which will be semester in which dissertation work is begun and continuing until the completion of 30 hours.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Dissertation

**Contact Hours:** 3 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**SPED 80299 DISSERTATION II 15 Credit Hours**

(Repeatable for credit) Continuing registration required of doctoral students who have completed the initial 30 hours of dissertation and continuing until all degree requirements are met.

**Prerequisite:** SPED 80199; and doctoral standing.

**Schedule Type:** Dissertation

**Contact Hours:** 15 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**SPED 83201 CONTEMPORARY ISSUES IN SPECIAL EDUCATION 3 Credit Hours**

(Slashed with SPED 63201) This course is designed to help doctoral students to develop (a) foundational knowledge for understanding important and controversial issues in special education and related disciplines; (b) skills in critical analysis and synthesis of research; and, (c) skills in effective oral and written communication about historical and contemporary issues in special education.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPED 83301 SINGLE-SUBJECT RESEARCH METHODS 3 Credit Hours**

(Repeatable for credit) Research designs and techniques associated with behavioral observation and a description of single subject experimental methodology are presented. The study of this methodology includes topics related to applied behavior analysis, assessment, experimental design and data evaluation. In addition, single subject methods are discussed in relations to other research designs. 20 field hours.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter-IP

**SPED 83952 THE LAW AND SPECIAL EDUCATION 3 Credit Hours**

Selected principles of constitutional, statutory, case and common law affecting handicapped and special education students, teachers and administrators are studied.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPED 83991 SEMINAR IN SPECIAL EDUCATION 1-3 Credit Hours**

(Repeatable for credit)

**Prerequisite:** Doctoral standing.

**Schedule Type:** Seminar

**Contact Hours:** 1-3 other

**Grade Mode:** Standard Letter

**SPED 83992 INTERNSHIP IN SPECIAL EDUCATION 2-8 Credit Hours**

(Repeatable for credit) A college-university doctoral-level supervised teaching experience. The candidates participate fully in the course and material development as well as delivery and grading of an undergraduate or masters level course under the direct supervision of a faculty member assigned to teach the class. Candidates are expected to partially participate in the delivery of a third of the course and fully deliver at least a third of the course under the observation and supervision of a faculty member.

**Prerequisite:** Doctoral standing; and special approval.

**Schedule Type:** Practical Experience

**Contact Hours:** 12-24 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**SPED 83998 RESEARCH:SPECIAL EDUCATION 1-10 Credit Hours**

(Repeatable for credit)

**Prerequisite:** Doctoral standing; and special approval.

**Schedule Type:** Research

**Contact Hours:** 1-10 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

## School of Teaching, Learning and Curriculum Studies

### Adolescent/Adult Education (ADED)

**ADED 20000 TOPICS IN SOCIAL JUSTICE IN TEACHING AND LEARNING 3 Credit Hours**

This course examines social justice issues that are central to teaching and learning across all educational contexts. In this course students will consider topics such as race, poverty, social class, LGBTQ youth and colleagues, socially responsive teaching, and at risk youth as they intersect with K-12 educational settings. This course will have a field experience to document some of the knowledge, skills, and dispositions for social justice in educational contexts learned throughout this course.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ADED 20020 EXPLORING SECONDARY SCIENCE TEACHING 1 Credit Hour**

This course is designed to allow students to learn and practice science teaching skills, develop real-world teaching experience in secondary schools, learn about research-based science teaching methods, and explore formal and informal science teaching careers. The course includes an associated field experience where students get to teach science lessons to local secondary students.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 1 lecture

**Grade Mode:** Standard Letter

**ADED 22275 ISSUES AND TRENDS IN SOCIAL STUDIES EDUCATION 3 Credit Hours**

A course that introduces you to the field of social studies education. In this course you will explore the history and current issues and trends in the field of social studies education.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ADED 32142 PRINCIPLES OF TEACHING ADOLESCENTS (WIC) 3 Credit Hours**

Orientation to adolescence and the teaching-learning process. This course includes 30 field-clinical hours in an urban setting. Students are required to complete Bureau of Criminal Investigation and Identification (BCII) and Federal Bureau of Investigation (FBI) background checks and submit the results to authorized personnel at their assigned school-agency before the first day of the semester in which student teaching internship will take place.

**Prerequisite:** ADED 20000; and admission to advanced study.

**Schedule Type:** Field Experience, Lecture

**Contact Hours:** 2 lecture, 2 other

**Grade Mode:** Standard Letter

**Attributes:** Writing Intensive Course

**ADED 32268 THE SECONDARY SCHOOL MATHEMATICS CURRICULUM 3 Credit Hours**

The secondary school mathematics curriculum will be examined. Student's textbooks and recommendations will be investigated. This course includes 30 field clinical hours. Students are required to complete Bureau of Criminal Investigation and Identification (BCII) and Federal Bureau of Investigation (FBI) background checks and submit the results to authorized personnel at their assigned school/agency before the first day of the semester in which student teaching/ internship will take place.

**Prerequisite:** ADED 32142 and MATH 22005.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ADED 32275 CURRICULUM AND PEDAGOGY IN SOCIAL STUDIES 3 Credit Hours**

A beginning social studies teaching and learning course. In this course you will explore how to achieve the purposes of social studies education through curriculum, instructional and planning decisions.

**Prerequisite:** ADED 22275 and ADED 32142; and admission to advanced study.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ADED 32277 TEACHING SCIENCE IN SECONDARY SCHOOLS 3 Credit Hours**

Goals, methodology and resources for effective teaching of science to adolescents and young adults.

**Prerequisite:** ADED 32142.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ADED 42196 INDIVIDUAL PROJECT IN ADOLESCENT EDUCATION 2-4 Credit Hours**

(Repeatable for credit) Independent study in Adolescent Education.

**Prerequisite:** Special approval.

**Schedule Type:** Individual Investigation

**Contact Hours:** 2-4 other

**Grade Mode:** Satisfactory/Unsatisfactory

**ADED 42268 TEACHING OF MATHEMATICS IN SECONDARY SCHOOLS 3 Credit Hours**

Methodology and materials for effective teaching of secondary school mathematics will be discussed and implemented in field experiences. Course includes 46 field/clinical hours. Mathematics courses through MATH 22005.

**Prerequisite:** ADED 32268.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ADED 42275 TEACHING SOCIAL STUDIES IN GRADES 7 - 12 3 Credit Hours**

An advanced social studies education teaching and learning course. Addresses a range of topics that will help you engage your 7th-12th grade students with social studies.

**Prerequisite:** Minimum C grade in ADED 32275; and admission to advanced study.

**Corequisite:** ADED 42292.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ADED 42277 TOPICS IN SECONDARY SCHOOL SCIENCE TEACHING 3 Credit Hours**

Analysis of trends in science teaching and materials and methods for introducing topics from the history of science and from health education.

**Prerequisite:** ADED 32277; and admission to advanced study.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ADED 42292 FIELD WORK PRACTICUM (ELR) 3 Credit Hours**

A minimum 96-hour field experience in a middle or high school. Observations, interviews, designing and teaching of lessons and debriefing. Students are required to complete Bureau of Criminal Investigation and Identification (BCII) and Federal Bureau of Investigation (FBI) background checks and submit the results to authorized personnel at their assigned school-agency before the first day of the semester in which student teaching internship will take place. Students must be on track for student teaching the following semester in order to register for this course.

**Prerequisite:** Minimum C grade in ADED 32268 or ADED 32275 or ADED 32277; or ADED 43325 and ADED 43335; and advanced study.

**Corequisite:** ADED 42268 or 42275 or 42277 or 43315.

**Schedule Type:** Practical Experience

**Contact Hours:** 9 other

**Grade Mode:** Standard Letter

**Attributes:** Experiential Learning Requirement

**ADED 42392 SECONDARY STUDENT TEACHING (ELR) 9 Credit Hours**

Provides a full time student-teaching experience. Observations, interviews, designing and teaching of lessons and debriefing. Students are required to complete Bureau of Criminal Investigation and Identification (BCII) and Federal Bureau of Investigation (FBI) background checks and submit the results to authorized personnel at their assigned school-agency before the first day of the semester in which student teaching internship will take place. Official valid certification of Child Safety Training, approved Basic Life Support and A.L.I.C.E. Training must be presented to the campus office of clinical experience or designated faculty-staff at Regional campuses as prerequisite for student teaching.

**Prerequisite:** Admission to advanced study; and Official valid certification of Child Safety Training, approved Basic Life Support and ALICE Training must be presented to the campus office of clinical experience or designated faculty/staff at Regional campuses as prerequisite for student teaching.

**Corequisite:** ADED 49525.

**Schedule Type:** Practical Experience

**Contact Hours:** 35 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**Attributes:** Experiential Learning Requirement

**ADED 43315 TEACHING LITERATURE IN THE SECONDARY SCHOOLS 3 Credit Hours**

(Slashed with ADED 53315) Explores the pedagogy of canonical literature, literary theory and approaches to teaching texts in the secondary classroom.

**Prerequisite:** ADED 43335; and advanced standing.

**Corequisite:** ADED 42292.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ADED 43325 MULTI-MODAL LITERACIES IN THE SECONDARY CLASSROOM 3 Credit Hours**

Explores the pedagogies of reading and composing with a variety of print and non-print texts. Focuses on the impact of media culture on adolescent learners. Utilizes new literacies to enhance learning in the content area.

**Prerequisite:** Advanced standing.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**ADED 43335 TEACHING LANGUAGE AND COMPOSITION 3 Credit Hours**

Explores linguistic and rhetorical perspectives on the teaching of composition in secondary schools.

**Prerequisite:** MCED 40007; and advanced standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ADED 49525 INQUIRY INTO PROFESSIONAL PRACTICE 3 Credit Hours**

Reflection on teaching for the purpose of instructional improvement. Emphases are placed on preparing implementing and assessing a curricular unit collaborative problem solving conducting an action research project and creating a portfolio.

**Prerequisite:** Admission to advanced study.

**Corequisite:** ADED 42357.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ADED 52267 IMPROVING MATHEMATICS INSTRUCTION FOR ADOLESCENT AND ADULT EDUCATION 3 Credit Hours**

Methodology and materials for effective teaching of secondary school mathematics.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ADED 52277 TEACHING SCIENCE IN THE SECONDARY SCHOOL 3 Credit Hours**

Analysis of teaching materials, demonstrations and participation in science classes appropriate for graduate students seeking certification to teach science in the secondary school.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ADED 53315 TEACHING LITERATURE IN THE SECONDARY SCHOOLS 3 Credit Hours**

(Slashed with ADED 43315) Explores the pedagogy of canonical literature, literary theory and approaches to teaching texts in the secondary classroom.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ADED 62145 PRINCIPLES OF SECONDARY TEACHING 3 Credit Hours**

Principles of teaching adolescents including curriculum, planning instruction, assessment, fundamentals of evaluation, and reflective practice. All course content focuses on preparing teachers for secondary school teaching.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ADED 62191 SEMINAR IN SECONDARY EDUCATION 1-3 Credit Hours**

(Repeatable for credit) (Cross-listed with ADED 72191) Study and experience of various theoretical and methodological and practical approaches to special problems.

**Prerequisite:** Graduate standing.

**Schedule Type:** Seminar

**Contact Hours:** 1-3 other

**Grade Mode:** Standard Letter



**ADED 62192 ADVANCED PRACTICUM AND INTERNSHIP IN SECONDARY EDUCATION 1-10 Credit Hours**

(Repeatable for credit) Provides a student-teaching or internship experience. Observations, interviews, designing and teaching of lessons and debriefing. Students are required to complete Bureau of Criminal Investigation and identification (BCII) and Federal Bureau of Investigation (FBI) background checks and submit the results to authorized personnel at their assigned school-agency before the first day of the semester in which student teaching internship will take place. Official valid certification of Child Safety Training, approved Basic Life Support and A.L.I.C.E. Training must be presented to the campus office of clinical experience or designated faculty staff at Regional campuses as prerequisite for student teaching.

**Prerequisite:** Official valid certification of Child Safety Training, approved Basic Life Support and ALICE Training must be presented to the campus office of clinical experience or designated faculty/staff at Regional campuses as prerequisite for student teaching; and Graduate standing.

**Schedule Type:** Practical Experience

**Contact Hours:** 3-32 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**ADED 62198 RESEARCH IN SECONDARY EDUCATION 2-15 Credit Hours**

(Repeatable for credit) Students pursue an individualized research project under direction of instructor.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Research

**Contact Hours:** 2-15 other

**Grade Mode:** Standard Letter

**ADED 67147 TEACHING ADOLESCENTS IN THE SECONDARY SCHOOL CULTURE 3 Credit Hours**

Providing for motivation, discipline and instruction of adolescents within the culture of the secondary school.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ADED 67232 SECONDARY SCHOOL SOCIAL STUDIES 3 Credit Hours**

(Cross-listed with ADED 77232) General focus is on examining current instructional and curricular trends in teaching social studies. Emphasis is placed on strategies of teaching developing student's critical thinking skills role of the computer use of primary sources teaching controversial issues and stimulating active citizenship.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ADED 72191 SEMINAR IN SECONDARY EDUCATION 1-3 Credit Hours**

(Repeatable for credit) (Cross-listed with ADED 62191) Study and experience of various theoretical and methodological and practical approaches to special problems.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Seminar

**Contact Hours:** 1-3 other

**Grade Mode:** Standard Letter

**Career and Technical Teacher Education (CTTE)****CCS 00005 COLLEGE ORIENTATION 1 Credit Hour**

This course introduces students to the expectations and responsibilities of being a college student. Students will be provided with valuable information of the resources and activities available at Kent State. Students will explore personal values, skills, abilities, and beliefs, and learn how to set academic goals that will guide them throughout their college experience.

**Prerequisite:** Career and Community Studies, Career Community Studies–College Preparation, Career Community Studies–Employment Readiness majors; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 1 lecture

**Grade Mode:** Satisfactory/Unsatisfactory

**CCS 00010 PERSONAL EXPLORATION I: NUTRITION AND PHYSICAL FITNESS 3 Credit Hours**

This course focuses on the importance of nutrition and physical exercise in order to take care of and to improve upon one's personal health needs.

**Prerequisite:** Career and Community Studies, Career Community Studies–College Preparation, Career Community Studies–Employment Readiness majors.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CCS 00015 ACADEMIC EXPERIENCE I: DISABILITY AWARENESS 3 Credit Hours**

This course promotes development of self-awareness through identifying personal strengths and needs, and self-advocacy skills through various methods of communication. Students will learn of their rights, responsibilities, and of the disabilities laws that help them to advocate for necessary supports.

**Prerequisite:** Career and Community Studies, Career Community Studies–College Preparation, Career Community Studies–Employment Readiness majors.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CCS 00020 TECHNOLOGY LABORATORY I 1 Credit Hour**

This course is an introduction to the uses of Flashline, BlackBoard Learn, and Microsoft Word to enhance student academic performance.

**Prerequisite:** Career and Community Studies, Career Community Studies–College Preparation, Career Community Studies–Employment Readiness majors.

**Schedule Type:** Laboratory

**Contact Hours:** 2 lab

**Grade Mode:** Standard Letter

**CCS 00025 FINANCIAL LITERACY I: BUDGETING PERSONAL EXPENSES IN COLLEGE 1 Credit Hour**

This introductory course will provide the student with an opportunity to develop attitudes and skills to achieve personal financial wellness and satisfaction while in college. Topics include how to set up a budget, considering where one might save money in daily living, and managing expenses.

**Prerequisite:** Career and Community Studies major, Career and Community Studies-College Preparation, or Career and Community Studies-Employment Readiness major.

**Schedule Type:** Lecture

**Contact Hours:** 1 lecture

**Grade Mode:** Standard Letter



**CCS 00030 PHYSICAL EDUCATION I 1 Credit Hour**

Students will participate in a sport or physical fitness activity in order to learn more about the topic of interest and to increase personal health. Students will practice appropriate personal and social skills, and demonstrate abilities to manage course responsibilities.

**Prerequisite:** Career and Community Studies, Career Community Studies–College Preparation, Career Community Studies–Employment Readiness majors.

**Schedule Type:** Laboratory

**Contact Hours:** 2 lab

**Grade Mode:** Satisfactory/Unsatisfactory

**CCS 00035 HEALTH AND WELLNESS I: PERSONAL SOCIAL SKILLS 3 Credit Hours**

Effective communication enhances personal, family, and community health. Select personal and social skills are presented in order to improve the health of the student. The student will participate in activities that allow them to practice and perform skills both in and outside of the classroom. The student creates a portfolio of course assignments for evaluation.

**Prerequisite:** Career and Community Studies, Career Community Studies–College Preparation, Career Community Studies–Employment Readiness majors.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CCS 00040 GET OUT OF YOUR COMFORT ZONE I: PREPARING FOR SUCCESS 3 Credit Hours**

Life begins with one step outside of your comfort zone. This introductory course is designed to teach many different literacy (e.g. reading, writing, speaking, and technology) skills that college students must develop in order for academic, community inclusion and social success, and to expand self-knowledge about personal strengths, preferences, interests, and needs. The student will apply self-determination as they develop skills necessary to attain academic success and to make connections to the university and community beyond.

**Prerequisite:** Career and Community Studies major, Career and Community Studies-College Preparation, or Career and Community Studies-Employment Readiness major.

**Schedule Type:** Laboratory, Lecture, Combined Lecture and Lab

**Contact Hours:** 1 lecture, 6 lab

**Grade Mode:** Standard Letter

**CCS 00105 INTRODUCTION TO CAREER EXPLORATION 1 Credit Hour**

Students begin the exploration process that helps them to become aware of their specific abilities, interests, and needs, and how these relate to their future life work.

**Prerequisite:** Career and Community Studies, Career Community Studies–College Preparation, Career Community Studies–Employment Readiness majors.

**Schedule Type:** Lecture

**Contact Hours:** 1 lecture

**Grade Mode:** Standard Letter

**CCS 00110 PERSONAL EXPLORATION II: INDEPENDENT LIVING AND LEISURE EDUCATION 3 Credit Hours**

This course focuses on two different but related topics. The first half of the semester is designed to provide college students with the opportunity to explore and develop personal leisure values, and expand their leisure interests. During the second half of the semester, students will practice various independent living skills in order to become more responsible adults.

**Prerequisite:** Career and Community Studies, Career Community Studies–College Preparation, Career Community Studies–Employment Readiness majors.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CCS 00115 ACADEMIC EXPERIENCE II: SELF-DETERMINATION 3 Credit Hours**

This course will provide students with opportunities to recognize and develop skills that can help them to increase success in all areas of their lives. Persons who are more self-determined often experience academic, employment, community living and personal satisfaction.

**Prerequisite:** Career and Community Studies, Career Community Studies–College Preparation, Career Community Studies–Employment Readiness majors.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CCS 00120 TECHNOLOGY LABORATORY II 1 Credit Hour**

Introduction to the uses of Microsoft Power Point, Publisher, and Excel in order to connect knowledge and learning experiences for student success.

**Prerequisite:** Career and Community Studies, Career Community Studies–College Preparation, Career Community Studies–Employment Readiness majors.

**Schedule Type:** Laboratory

**Contact Hours:** 2 lab

**Grade Mode:** Standard Letter

**CCS 00125 FINANCIAL LITERACY II: BUDGETING PERSONAL EXPENSES AFTER COLLEGE 1 Credit Hour**

This course will provide the student with a more detailed opportunity to reflect on one's desire and ability to manage money in adult life to achieve personal financial wellness and satisfaction. Topics include earning and saving money, how to calculate wages and understanding federal, state, and local taxes, and establishing a realistic budget that will help the student to transition into adult life.

**Prerequisite:** Career and Community Studies major, Career and Community Studies-College Preparation, or Career and Community Studies-Employment Readiness major.

**Schedule Type:** Lecture

**Contact Hours:** 1 lecture

**Grade Mode:** Standard Letter

**CCS 00130 PHYSICAL EDUCATION II 1 Credit Hour**

Students will participate in a sport or physical fitness activity in order to learn more about the topic of interest and to increase personal health. Students will advance appropriate personal and social skills, and demonstrate increased abilities to manage course responsibilities.

**Prerequisite:** Career and Community Studies, Career Community Studies–College Preparation, Career Community Studies–Employment Readiness majors; and special approval.

**Schedule Type:** Laboratory

**Contact Hours:** 2 lab

**Grade Mode:** Satisfactory/Unsatisfactory

**CCS 00135 HEALTH AND WELLNESS II: HUMAN SEXUALITY 3 Credit Hours**

Focus of the course is to understand behaviors and issues related to human sexuality.

**Prerequisite:** Career and Community Studies, Career Community Studies–College Preparation, Career Community Studies–Employment Readiness majors.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CCS 00140 GET OUT OF YOUR COMFORT ZONE II: VOLUNTEERING 3 Credit Hours**

With busy lives, it can be hard to find time to volunteer. However, the benefits of volunteering are enormous to you, your family, and your community. Volunteering and helping others can help you reduce stress, combat depression, keep you mentally stimulated, and provide a sense of purpose. The student will research and explore various opportunities to volunteer, even in simple ways, that can help others in need and improve student health and happiness.

**Prerequisite:** Career and Community Studies major, Career and Community Studies–College Preparation, or Career and Community Studies–Employment Readiness major.

**Schedule Type:** Laboratory, Lecture, Combined Lecture and Lab

**Contact Hours:** 1 lecture, 6 lab

**Grade Mode:** Standard Letter

**CCS 00196 FRESHMAN INDIVIDUAL STUDY 1-3 Credit Hours**

(Repeatable for credit) Independent Study is a student-initiated experience in order to pursue an area of career interest not covered by a regular course offering; with the approval and guidance of a Career and Community Studies faculty member.

**Prerequisite:** Career and Community Studies, Career Community Studies–College Preparation, Career Community Studies–Employment Readiness majors.

**Schedule Type:** Individual Investigation

**Contact Hours:** 3-9 other

**Grade Mode:** Standard Letter-IP

**CCS 00205 CAREER EXPLORATION I 3 Credit Hours**

This course promotes assessment of specific career skills, interests, and needs, and how these relate to future life work. The student develops career awareness through evaluation of past experiences that have influenced career development and uses person-centered planning tools to develop and implement meaningful future career goals.

**Prerequisite:** Career and Community Studies major, Career and Community Studies–College Preparation, or Career and Community Studies–Employment Readiness major.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CCS 00210 ACADEMIC SUCCESS I 3 Credit Hours**

This introductory course is designed to teach many different literacy (e.g. reading, writing, speaking, and technology) skills that college students must develop in order to have academic and social success. The student will practice to communicate effectively and identify resources available in order to complete coursework assignments and projects.

**Prerequisite:** Career and Community Studies major, Career and Community Studies–College Preparation, or Career and Community Studies–Employment Readiness major.

**Schedule Type:** Laboratory, Lecture, Combined Lecture and Lab

**Contact Hours:** 1 lecture, 6 lab

**Grade Mode:** Standard Letter

**CCS 00215 INTRODUCTION TO COMMUNICATION SKILLS 3 Credit Hours**

This course explores communication theories and practices in group, interpersonal, and public contexts. Students explore the processes of active listening, developing effective communication skills, and the processes of organizing thoughts into clear messages so that others may more easily understand.

**Prerequisite:** Career and Community Studies, Career Community Studies–College Preparation, Career Community Studies–Employment Readiness majors.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Satisfactory/Unsatisfactory

**CCS 00225 FINANCIAL LITERACY III 1 Credit Hour**

This course provides the student with real-life situations to practice basic math skills used in budgeting and managing money wisely. The student recognizes the hidden costs associated with many of the essentials and conveniences they use daily.

**Prerequisite:** Career and Community Studies, Career Community Studies–College Preparation, Career Community Studies–Employment Readiness majors.

**Schedule Type:** Lecture

**Contact Hours:** 1 lecture

**Grade Mode:** Standard Letter

**CCS 00235 HEALTH AND WELLNESS III: INJURY PREVENTION 3 Credit Hours**

The focus of the course is to understand behaviors and issues related to personal injury and safety.

**Prerequisite:** Career and Community Studies, Career Community Studies–College Preparation, Career Community Studies–Employment Readiness majors.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CCS 00292 SOPHOMORE PRACTICUM I 3 Credit Hours**

(Repeatable for credit) This course provides the student with the opportunity to develop crucial work skills that are important in any employment positions. The student gains self-awareness of their work skills and habits and receives support as they prepare for the career that they ultimately desire.

**Prerequisite:** Career and Community Studies, Career Community Studies–College Preparation, Career Community Studies–Employment Readiness majors; and special approval.

**Schedule Type:** Practical Experience

**Contact Hours:** 9 other

**Grade Mode:** Standard Letter-IP

**CCS 00296 SOPHOMORE INDEPENDENT STUDY 1-3 Credit Hours**

(Repeatable for credit) Independent Study is a student-initiated experience in order to pursue an area of career interest not covered by a regular course offering, with the approval and guidance of a Career and Community Studies faculty member.

**Prerequisite:** Career and Community Studies, Career Community Studies–College Preparation, Career Community Studies–Employment Readiness majors.

**Schedule Type:** Individual Investigation

**Contact Hours:** 3-9 other

**Grade Mode:** Standard Letter-IP

**CCS 00305 CAREER EXPLORATION II 3 Credit Hours**

The purpose of this course is to help the student to narrow career possibilities and to identify the career of their choice. The student conducts research into an identified career field in order to list the necessary skills, to investigate local occupational opportunities, and to specify any training experiences that are available to advance knowledge and skills in this area.

**Prerequisite:** CCS 00205; and Career and Community Studies major, Career and Community Studies-College Preparation, or Career and Community Studies-Employment Readiness major.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CCS 00310 ACADEMIC SUCCESS II 3 Credit Hours**

This course supports the student as they advance skills in learning strategies, critical thinking, problem-solving, and study skills; and as they apply skills to coursework that prepares for a specific career interest. The student practices effective communication through reading, writing, and speaking while completing assignments and projects.

**Prerequisite:** Career and Community Studies major, Career and Community Studies-College Preparation, or Career and Community Studies-Employment Readiness major.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 1 lecture, 6 lab

**Grade Mode:** Standard Letter

**CCS 00325 FINANCIAL LITERACY IV 1 Credit Hour**

The student will understand how credit card debt, personal loans for housing, leisure, or transportation needs, and investing in savings and bonds can have an effect on the lifestyle that one hopes to achieve. Making wise financial decisions and planning is important when becoming an independent adult.

**Prerequisite:** Career and Community Studies, Career Community Studies–College Preparation, Career Community Studies–Employment Readiness majors.

**Schedule Type:** Lecture

**Contact Hours:** 1 lecture

**Grade Mode:** Standard Letter

**CCS 00335 HEALTH AND WELLNESS IV: HEALTHY LIVING AND SUBSTANCE ABUSE 3 Credit Hours**

This course will support behavior that encourages students to make responsible choices for lifelong health and wellness through instruction and active participation. Topics to be discussed include personal and social skills, nutrition and fitness, developing coping skills, sexuality education, substance use, and injury prevention.

**Prerequisite:** Career and Community Studies, Career Community Studies–College Preparation, Career Community Studies–Employment Readiness majors.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CCS 00392 SOPHOMORE PRACTICUM II 3 Credit Hours**

(Repeatable for credit) This course provides the student with additional opportunities to develop crucial work skills that are important in all employment positions. The student expands self-awareness of their work skills and habits and receives support as they prepare for the career that they ultimately desire.

**Prerequisite:** Career and Community Studies, Career Community Studies–College Preparation, Career Community Studies–Employment Readiness majors.

**Schedule Type:** Practical Experience

**Contact Hours:** 9 other

**Grade Mode:** Standard Letter-IP

**CCS 00395 SPECIAL TOPICS 1-4 Credit Hours**

(Repeatable for credit) Course topic will vary depending upon individual career choices. The student will participate in courses with like-minded peers in order to gain knowledge and skills in the career field of interest. Students must get approval from their academic advisor and course faculty prior to taking this course.

**Prerequisite:** Career and Community Studies, Career Community Studies–College Preparation, Career Community Studies–Employment Readiness majors; and special approval.

**Schedule Type:** Laboratory, Lecture

**Contact Hours:** 1-4 lecture, 2-8 lab

**Grade Mode:** Satisfactory/Unsatisfactory

**CCS 00396 JUNIOR INDEPENDENT STUDY 1-3 Credit Hours**

(Repeatable for credit) Independent Study is a student-initiated experience in order to pursue an area of career interest not covered by a regular course offering, with the approval and guidance of a Career and Community Studies faculty member.

**Prerequisite:** Career and Community Studies, Career Community Studies–College Preparation, Career Community Studies–Employment Readiness majors; and special approval.

**Schedule Type:** Individual Investigation

**Contact Hours:** 3-9 other

**Grade Mode:** Standard Letter-IP

**CCS 00405 CAREER PREPARATION I: CHOOSING YOUR CAREER 3 Credit Hours**

This course prepares the student for entering the work force by creating a resume, practicing interviewing skills, and by developing networks of people who can help them to achieve their career goals. The student will participate in job shadowing opportunities in order to better understand the expectations and requirements of the career field of interest.

**Prerequisite:** Career and Community Studies, Career Community Studies–College Preparation, Career Community Studies–Employment Readiness majors.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CCS 00420 ACADEMIC SUPPORT I 3 Credit Hours**

This course provides support to the student as they advance in goal setting and attainment skills. The student is supported as they increase critical thinking skills and monitors academic progress; and as they complete course assignments while working towards becoming an organized and self-determined student.

**Prerequisite:** Career and Community Studies, Career Community Studies–College Preparation, Career Community Studies–Employment Readiness majors.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CCS 00492 JUNIOR PRACTICUM III 4 Credit Hours**

(Repeatable for credit) Once a career has been initially identified, it is important early on for the student to be exposed to the requirements and environments of that field. Students will be provided opportunities to perform work relevant to their career choice. Evaluating the fit helps to ensure that they have chosen wisely. In-progress (IP) mark permissible.

**Prerequisite:** Career and Community Studies, Career Community Studies–College Preparation, Career Community Studies–Employment Readiness majors.

**Schedule Type:** Practical Experience

**Contact Hours:** 12 other

**Grade Mode:** Standard Letter-IP

**CCS 00495 SPECIAL TOPICS 1-4 Credit Hours**

(Repeatable for credit) Course topic will vary depending upon individual career choices. The student will participate in courses with like-minded peers in order to gain knowledge and skills in the career field of interest. Students must get approval from their academic advisor and course faculty prior to taking this course.

**Prerequisite:** Career and Community Studies, Career Community Studies–College Preparation, Career Community Studies–Employment Readiness majors; and special approval.

**Schedule Type:** Laboratory, Lecture

**Contact Hours:** 1-4 lecture, 1-4 lab

**Grade Mode:** Satisfactory/Unsatisfactory

**CCS 00496 SENIOR INDEPENDENT STUDY 1-3 Credit Hours**

Independent Study is a student-initiated experience in order to pursue an area of career interest not covered by a regular course offering, with the approval and guidance of a Career and Community Studies faculty member.

**Prerequisite:** Career and Community Studies, Career Community Studies–College Preparation, Career Community Studies–Employment Readiness majors.

**Schedule Type:** Individual Investigation

**Contact Hours:** 3-9 other

**Grade Mode:** Standard Letter-IP

**CCS 00505 CAREER PREPARATION II 3 Credit Hours**

This course is designed to continue to prepare the student for entering into the work force by expanding interview skills and by locating and utilizing resources such as state employment and vocational rehabilitation services to promote career decisions.

**Prerequisite:** CCS 00405; and Career and Community Studies, Career Community Studies–College Preparation, Career Community Studies–Employment Readiness majors.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CCS 00520 ACADEMIC SUPPORT II 3 Credit Hours**

This sequenced course continues to provide support to the student as they advance in goal setting and attainment skills. The student is supported as they increase critical thinking skills, monitors progress, and receives support as they complete course assignments pertaining to career goals while working towards becoming an organized and self-determined student.

**Prerequisite:** CCS 00420; and Career and Community Studies, Career Community Studies–College Preparation, Career Community Studies–Employment Readiness majors.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CCS 00592 JUNIOR PRACTICUM IV 4 Credit Hours**

(Repeatable for credit) This course provides additional opportunities for the student to be exposed to the requirements and environments of the career field to ensure the student's commitment to the career choice. Additionally, the student continues to develop appropriate work habits and behaviors while obtaining specific occupation skills.

**Prerequisite:** Career and Community Studies, Career Community Studies–College Preparation, Career Community Studies–Employment Readiness majors; and special approval.

**Schedule Type:** Practical Experience

**Contact Hours:** 12 other

**Grade Mode:** Standard Letter-IP

**CCS 00595 SPECIAL TOPICS 1-4 Credit Hours**

(Repeatable for credit) Course topic will vary depending upon individual career choices. The student will participate in courses with like-minded peers in order to gain knowledge and skills in the career field of interest. Students must get approval from their academic advisor and course faculty prior to taking this course.

**Prerequisite:** Career and Community Studies, Career Community Studies–College Preparation, Career Community Studies–Employment Readiness majors; and special approval.

**Schedule Type:** Laboratory, Lecture

**Contact Hours:** 2-8 lab

**Grade Mode:** Satisfactory/Unsatisfactory

**CCS 00605 COMMUNITY LIFE I: PREPARE FOR EMPLOYMENT AFTER COLLEGE 1 Credit Hour**

This course guides the student as they prepare for employment by completing on-line employment recognized certifications that apply to career interest as they plan for transitioning back to the community in which they will work after graduation. The student considers personal strengths, preferences, interests, and needs as they relate to career specific qualifications.

**Prerequisite:** Career and Community Studies major, Career Community Studies-College Preparation major, or Career Community Studies-Employment Readiness major.

**Corequisite:** CCS 00606.

**Schedule Type:** Lecture

**Contact Hours:** 1 lecture

**Grade Mode:** Standard Letter

**CCS 00606 COMMUNITY LIFE I LABORATORY 3 Credit Hours**

Using the Personal Profile created in a coexisting course, the student will complete on-line employment recognized certifications in preparation for their identified career field.

**Prerequisite:** Career and Community Studies major, Career and Community Studies-College Preparation, or Career and Community Studies-Employment Readiness major.

**Corequisite:** CCS 00605.

**Schedule Type:** Laboratory

**Contact Hours:** 9 lab

**Grade Mode:** Standard Letter

**CCS 00692 SENIOR INTERNSHIP I 1-12 Credit Hours**

(Repeatable for credit) Internship courses are credit-bearing work experiences that are integrated with academic instruction and relate to an individual student's career goals. The internship occurs in a natural community setting and provides an environment and context to integrate specific career knowledge, skills, and professional behaviors.

**Prerequisite:** Career and Community Studies, Career Community Studies-College Preparation, Career Community Studies-Employment Readiness majors; and special approval.

**Schedule Type:** Practical Experience

**Contact Hours:** 3-36 other

**Grade Mode:** Standard Letter-IP

**CCS 00695 SPECIAL TOPICS 1-4 Credit Hours**

(Repeatable for credit) Course topic will vary depending upon individual career choices. The student will participate in courses with like-minded peers in order to gain knowledge and skills in the career field of interest. Students must get approval from their academic advisor and course faculty prior to taking this course.

**Prerequisite:** Career and Community Studies, Career Community Studies-College Preparation, Career Community Studies-Employment Readiness majors.

**Schedule Type:** Laboratory, Lecture

**Contact Hours:** 1-4 lecture, 2-8 lab

**Grade Mode:** Satisfactory/Unsatisfactory

**CCS 00705 COMMUNITY LIFE II: MAKING COMMUNITY CONNECTIONS 1 Credit Hour**

In this class, the student will discuss and design a plan to develop two valuable resources to aid in the transition back to their community. One is a portfolio that contains cumulative projects that will serve as a resource guide. The other is a Person-Centered Plan that identifies past, present, and future skill and goal development.

**Prerequisite:** Career and Community Studies major, Career and Community Studies-College Preparation, or Career and Community Studies-Employment Readiness major.

**Corequisite:** CCS 00705.

**Schedule Type:** Lecture

**Contact Hours:** 1 lecture

**Grade Mode:** Standard Letter

**CCS 00706 COMMUNITY LIFE II LABORATORY 3 Credit Hours**

The student will create a portfolio of documents completed throughout the four year college experience that showcase accomplishments in domains of Wellness, Community Inclusion, and Career Preparation. The student will also create a Person-Centered Plan that is useful to achieving life goals after graduation.

**Prerequisite:** Career and Community Studies major, Career and Community Studies-College Preparation, or Career and Community Studies-Employment Readiness major.

**Corequisite:** CCS 00705.

**Schedule Type:** Laboratory

**Contact Hours:** 9 lab

**Grade Mode:** Standard Letter

**CCS 00792 SENIOR INTERNSHIP II 1-12 Credit Hours**

(Repeatable for credit) Internship courses are credit-bearing work experiences that are integrated with academic instruction and relate to an individual student's career goals. The internship occurs in a natural community setting and provides an environment and context to integrate specific career knowledge, skills, and professional behaviors.

**Prerequisite:** Career and Community Studies, Career Community Studies-College Preparation, Career Community Studies-Employment Readiness majors; and special approval.

**Schedule Type:** Practical Experience

**Contact Hours:** 3-36 other

**Grade Mode:** Standard Letter-IP

**CCS 00795 SPECIAL TOPICS 1-4 Credit Hours**

(Repeatable for credit) Course topic will vary depending upon individual career choices. The student will participate in courses with like-minded peers in order to gain knowledge and skills in the career field of interest. Students must get approval from their academic advisor and course faculty prior to taking this course.

**Prerequisite:** Career and Community Studies, Career Community Studies-College Preparation, Career Community Studies-Employment Readiness majors; and special approval.

**Schedule Type:** Laboratory, Lecture

**Contact Hours:** 1-4 lecture, 2-8 lab

**Grade Mode:** Satisfactory/Unsatisfactory



## Curriculum and Instruction (CI)

### CI 40093 VARIABLE TITLE WORKSHOP IN CURRICULUM AND INSTRUCTION 1-5 Credit Hours

(Slashed with CI 50093 and CI 70093)(Repeatable for credit) Variable topic workshop designed to respond to curriculum trends and issues and specialized needs.

**Prerequisite:** Special approval.

**Schedule Type:** Workshop

**Contact Hours:** 1-5 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

### CI 47095 SPECIAL TOPICS IN CURRICULUM AND INSTRUCTION 1-5 Credit Hours

(Repeatable for credit) Topic varies for each offering.

**Prerequisite:** Special approval.

**Schedule Type:** Lecture

**Contact Hours:** 1-5 lecture

**Grade Mode:** Standard Letter-IP

### CI 47096 INDIVIDUAL INVESTIGATION IN CURRICULUM AND INSTRUCTION 1-5 Credit Hours

(Repeatable for credit) Student-initiated experience to pursue an area of interest not covered by a regular course offering, with the guidance of a Kent State faculty member.

**Prerequisite:** Special approval.

**Schedule Type:** Individual Investigation

**Contact Hours:** 1-5 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

### CI 47195 SPECIAL TOPICS IN CURRICULUM AND INSTRUCTION 1-5 Credit Hours

(Repeatable for credit) Student teaching topics vary for each offering.

**Prerequisite:** Special approval.

**Schedule Type:** Practical Experience

**Contact Hours:** 1-5 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

### CI 47330 READING AND WRITING IN ADOLESCENCE/ADULTHOOD 3 Credit Hours

(Slashed with CI 57330) Understanding of literacy learning in adolescence and adulthood (ages 12-21) with an emphasis on strategies for text learning, literacy in electronic environments and teaching students who struggle as readers and writers.

**Prerequisite:** Admission to advanced study.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

### CI 47501 TEACHING MATHEMATICS IN EARLY AND MIDDLE GRADES 3 Credit Hours

(Slashed with CI 57501) Addresses pedagogical content knowledge for the teaching and learning of mathematics in grades K-9, based on the national content and process standards.

**Prerequisite:** MATH 14001 or MATH 14002 with a minimum C grade; and admission to advanced study.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

### CI 47502 SCIENCE TEACHING IN EARLY AND MIDDLE GRADES 3 Credit Hours

(Slashed with CI 57502) Addresses pedagogical content knowledge for the teaching and learning of science in grades K-9. Students examine how to best align science practice to state and national standards.

**Prerequisite:** Admission to advanced study.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

### CI 47503 TEACHING SOCIAL STUDIES IN EARLY AND MIDDLE GRADES 3 Credit Hours

(Slashed with CI 57503) Addresses pedagogical content knowledge for the teaching and learning of social studies in grades K-9, based on the national content and process standards.

**Prerequisite:** Admission to advanced study.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

### CI 47504 TEACHING READING AND WRITING IN MIDDLE GRADES 3 Credit Hours

(Slashed with CI 57504) Addresses pedagogical content knowledge for the teaching and learning of reading and writing in grades 4-9, based on the national content and process standards.

**Prerequisite:** Admission to advanced study.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

### CI 47505 INTEGRATED SOCIAL STUDIES AND SCIENCE 3 Credit Hours

(Slashed with CI 57505) Addresses principles of teaching and learning as applied to teaching social studies and science in elementary and middle grades. Students examine how to best align social studies and science practice with state and national standards.

**Prerequisite:** Admission to advanced study.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

### CI 50093 VARIABLE TITLE WORKSHOP IN CURRICULUM AND INSTRUCTION 1-5 Credit Hours

(Slashed with CI 40093 and CI 70093)(Repeatable for credit) Variable topic workshop designed to respond to curriculum trends and issues and specialized needs.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Workshop

**Contact Hours:** 1-5 other

**Grade Mode:** Satisfactory/Unsatisfactory

### CI 50095 SPECIAL TOPICS: SEMINAR/WORKSHOP IN CURRICULUM AND INSTRUCTION 1 Credit Hour

(Repeatable for credit) Topics varies for each offering. Seminar workshop for International Baccalaureate program.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 1 lecture

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**CI 55015 PSYCHOLOGY OF COACHING 3 Credit Hours**

(Slashed with PESP 45015) Factors affecting athletic performance emphasizing skill, motivation, personality and practice conditions.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CI 55020 CONTEMPORARY ATHLETIC COACHING 3 Credit Hours**

(Slashed with PESP 45020) A focus on the philosophy, skills, strategies and tactics of coaching within contemporary society.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CI 55051 ELEMENTARY SCHOOL PHYSICAL EDUCATION METHODS 3 Credit Hours**

(Slashed with PESP 45051) Approaches to teaching in elementary school physical education. Focus on establishing an environment for learning, planning standards based lessons, instructional effectiveness, and assessment of student learning. Students are required to complete Bureau of Criminal Investigation and Identification (BCII) and Federal Bureau of Investigation (FBI) background checks and submit the results to authorized personnel at their assigned school-agency before the first day of field experience.

**Prerequisite:** Physical Education Teacher Education concentration in the Curriculum and Instruction major; and graduate standing; and special approval.

**Corequisite:** CI 55053.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 2 lecture, 2 lab

**Grade Mode:** Standard Letter

**CI 55053 ELEMENTARY SCHOOL PHYSICAL EDUCATION CONTENT 3 Credit Hours**

(Slashed with PESP 45053) Physical education content for the elementary school child with emphasis on developmentally appropriate learning in three domains. Students are required to complete Bureau of Criminal Investigation and Identification (BCII) and Federal Bureau of Investigation (FBI) background checks and submit the results to authorized personnel at their assigned school-agency before the first day of field experience.

**Prerequisite:** Graduate standing; and special approval.

**Corequisite:** CI 55051.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 2 lecture, 2 lab

**Grade Mode:** Standard Letter

**CI 55058 SECONDARY SCHOOL PHYSICAL EDUCATION METHODS 3 Credit Hours**

(Slashed with PESP 45058) Approaches to teaching in secondary physical education. Focus on management of the learning environment, planning for learning outcomes in three domains, instructional effectiveness, and sequential curriculum development. Students are required to complete Bureau of Criminal Investigation and Identification (BCII) and Federal Bureau of Investigation (FBI) background checks and submit the results to authorized personnel at their assigned school-agency before the first day of field experience.

**Prerequisite:** Graduate standing; and special approval.

**Corequisite:** CI 55059.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 2 lecture, 2 lab

**Grade Mode:** Standard Letter

**CI 55059 SECONDARY SCHOOL PHYSICAL EDUCATION CONTENT 3 Credit Hours**

(Slashed with PESP 45059) Introduction and development of content, standards-based curriculum models, management and organizational skills related to sports and activities utilized in secondary school physical education. Students are required to complete Bureau of Criminal Investigation and Identification (BCII) and Federal Bureau of Investigation (FBI) background checks and submit the results to authorized personnel at their assigned school-agency before the first day of field experience.

**Prerequisite:** Graduate standing; and special approval.

**Corequisite:** CI 55058.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 2 lecture, 2 lab

**Grade Mode:** Standard Letter

**CI 57330 READING AND WRITING IN ADOLESCENCE/ADULTHOOD 3 Credit Hours**

(Slashed with CI 47330) Understanding of literacy learning in adolescence and adulthood (ages 12-21) with an emphasis on strategies for text learning, literacy in electronic environments, and teaching students who struggle as readers and writers.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CI 57501 TEACHING MATHEMATICS IN EARLY AND MIDDLE GRADES 3 Credit Hours**

(Slashed with CI 47501) Addresses pedagogical content knowledge for the teaching and learning of mathematics in grades K-9, based on the national content and process standards.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CI 57502 SCIENCE TEACHING IN EARLY AND MIDDLE GRADES 3 Credit Hours**

(Slashed with CI 47502) Addresses pedagogical content knowledge for the teaching and learning of science in grades K-9. Students examine how to best align science practice to state and national standards.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CI 57503 TEACHING SOCIAL STUDIES IN EARLY AND MIDDLE GRADES 3 Credit Hours**

(Slashed with CI 47503) Addresses pedagogical content knowledge for the teaching and learning of social studies in grades K-9, based on the national content and process standards.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CI 57504 TEACHING READING AND WRITING IN MIDDLE GRADES 3 Credit Hours**

(Slashed with CI 47504) Addresses pedagogical content knowledge for the teaching and learning of reading and writing in grades 4-9, based on the national content and process standards.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CI 57505 INTEGRATED SOCIAL STUDIES AND SCIENCE 3 Credit Hours**

(Slashed with CI 47505) Addresses principles of teaching and learning as applied to teaching social studies and science in elementary and middle grades. Students examine how to best align social studies and science practice with state and national standards.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CI 60199 THESIS I 2-6 Credit Hours**

Thesis students must register for a total of 6 hours, 2 to 6 hours in a single semester distributed over several semesters if desired.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Masters Thesis

**Contact Hours:** 2-6 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**CI 60299 THESIS II 2 Credit Hours**

Thesis students must continue registration each semester until all degree requirements are met.

**Prerequisite:** CI 60199; and Graduate standing.

**Schedule Type:** Masters Thesis

**Contact Hours:** 2 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**CI 61124 EDUCATING THE GOOD CITIZEN 3 Credit Hours**

(Slashed with CI 71124) Course explores the competing conceptions of citizenship education through an examination and critique of the diverse perspectives on the purposes and possibilities of citizenship education—including the contributions and influence of multicultural, international and theoretical perspectives on the meaning of educating citizens in a democracy—situating work, thinking and practice in the literature. As part of the process of reading, discussing and deliberating together, students articulate a rationale for citizenship education and develop ways to incorporate their vision for citizenship education into their work as teacher educators, practicing social studies teachers and/or community members.

**Prerequisite:** Graduate standing.

**Schedule Type:** Seminar

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**CI 61125 ISSUES AND TRENDS IN SOCIAL STUDIES EDUCATION 3 Credit Hours**

(Slashed with CI 71125) Provides an overview of historical trends and contemporary issues in social studies education.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CI 61126 RESEARCH IN SOCIAL STUDIES TEACHING AND LEARNING 3 Credit Hours**

(Slashed with CI 71126) Students examine, discuss and study research in the teaching and learning of social studies, as well as develop their own study of social studies teaching and learning.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CI 61127 TECHNOLOGY AND SOCIAL STUDIES 3 Credit Hours**

(Slashed with CI 71127) Course provides experiences with and study of various uses of technology in social studies teaching and learning. Students examine implications and effects of technology on student learning, teaching and society as a whole.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CI 61130 MULTICULTURAL EDUCATION: STRATEGIES 3 Credit Hours**

(Slashed with CI 71130) Course provides the strategies for teaching children to function effectively in a pluralistic society.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CI 61133 ISSUES AND TRENDS IN ELEMENTARY SCIENCE 3 Credit Hours**

(Slashed with CI 71133) New discoveries in science, including issues in society with direct science content. Emphasis is on practical and simple classroom applications.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CI 61134 RESEARCH TRENDS IN SCIENCE EDUCATION 3 Credit Hours**

(Slashed with CI 71134) Course in issues relating to research methods pertinent to science education.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CI 61140 CULTURE AND MULTICULTURALISM IN SCIENCE EDUCATION 3 Credit Hours**

(Slashed with CI 71140) Provides a general introduction to the impacts of multiculturalism and the social studies of science on science education. Implications for science educational curriculum theory, classroom practice and research are explored. Teaching topics examined include race and gender in science education, culture of science and science in a global context.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CI 61141 NATURE OF SCIENCE IN SCIENCE EDUCATION 3 Credit Hours**

(Slashed with CI 71141) Course in issues relating to the nature of science as it impacts science education.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CI 63193 VARIABLE TITLE WORKSHOP IN EXERCISE, LEISURE AND SPORT 1-3 Credit Hours**

(Repeatable for credit) Workshop in exercise, leisure and sport. Topics vary. Maximum 4 credit hours applied to the degree.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Workshop

**Contact Hours:** 1-3 other

**Grade Mode:** Satisfactory/Unsatisfactory

**CI 65025 CONTEMPORARY ISSUES IN SPORT PEDAGOGY - AN INTERNATIONAL PERSPECTIVE 3 Credit Hours**

(Slashed with CI 85025) An international perspective on the investigation and study of current problems, issues and trends in sport pedagogy.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CI 65037 ADAPTED PHYSICAL EDUCATION 3 Credit Hours**

(Slashed with CI 85037) Course prepares physical education teachers to provide safe, appropriate and individualized accommodations to students with disabilities. All information presented is structured around research-based and cross-culturally appropriate practices in adapted physical education that have been implemented in physical education programs globally.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CI 65044 PEDAGOGICAL ANALYSIS OF PHYSICAL EDUCATION AND SPORT 3 Credit Hours**

(Slashed with CI 85044) An analysis of contemporary pedagogical models, practices and theories relevant to the multidimensional environments of physical education and sport.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CI 65055 CURRICULUM DEVELOPMENT IN SPORT PEDAGOGY 3 Credit Hours**

(Slashed with CI 85055) The analysis, development and design of curricular theory and practice in physical education and sport. An examination of current and future issues in curriculum implementation.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CI 65392 ADVANCED PRACTICUM IN PHYSICAL EDUCATION 10 Credit Hours**

(Repeatable for credit) A 16-week practicum in K-12 physical education, combining full-time student teaching and student teaching seminar. Students spend eight weeks student teaching at the preschool to fifth-grade level and then eight weeks at the sixth- to 12th-grade level. Students are required to complete Bureau of Criminal Investigation and Identification (BCII) and Federal Bureau of Investigation (FBI) background checks and submit the results to authorized personnel at their assigned school/agency before the first day of the semester in which student teaching/ internship will take place. Official valid certification of Child Safety Training, approved Basic Life Support and ALICE training must be presented to the campus office of clinical experience or designated faculty/staff at regional campuses as prerequisite for student teaching.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Practical Experience, Seminar

**Contact Hours:** 3 lecture, 32 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**CI 65592 PRACTICUM IN ADAPTED PHYSICAL EDUCATION 3 Credit Hours**

(Repeatable for credit) Supervised and supervisory experiences in motor development for all ages and abilities, including conceptual bases for assessment and individualized task analysis.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Practical Experience

**Contact Hours:** 9 other

**Grade Mode:** Standard Letter-IP

**CI 65692 INTERNSHIP IN ATHLETIC COACHING 2-4 Credit Hours**

(Repeatable for a maximum of 4 credits) Supervised experience in organized sport focused upon the duties of a coach; can involve one or more level (youth, school, college, professional) and sport. A focus on the philosophy, skills, strategies and tactics of coaching within contemporary society. 45 contact hours per credit. Students are required to complete Bureau of Criminal Investigation and Identification (BCII) and Federal Bureau of Investigation (FBI) background checks and submit the results to authorized personnel at their assigned school-agency before the first day of the semester in which student teaching-internship will take place.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Practical Experience

**Contact Hours:** 6-12 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**CI 67001 FUNDAMENTALS OF CURRICULUM 3 Credit Hours**

(Slashed with CI 77001) Orientation to the curriculum field. Theoretical examination of foundations, elements, design and development of school, college and non-school curricula.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CI 67002 CURRICULUM LEADERSHIP 3 Credit Hours**

(Slashed with CI 77002) Course explores the theories and practices of curriculum leadership with reference to the current politics of education and the democratic ideals of information-age, pluralistic societies. Mandated accountability reform is critically compared to invited professional renewal.

**Prerequisite:** CI 67001; and Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter



**CI 67003 TEACHER EDUCATION 3 Credit Hours**

(Slashed with CI 77003) Course provides a broad overview of teacher education, including curriculum, organization, governance and policy.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CI 67004 PROFESSIONAL DEVELOPMENT IN TEACHING 3 Credit Hours**

(Slashed with CI 77004) Course provides a broad overview and conceptual framework for professional development; its historical, cultural, psychological and social contexts.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CI 67005 INTERCULTURAL DIMENSIONS OF TEACHING AND LEARNING 3 Credit Hours**

(Slashed with CI 77005) Course addresses teaching and learning in the intercultural K-16 context. Increasing intercultural interaction in schools and communities across the nation and around the world are prompting educational changes in terms of what is being taught and how it is being taught. Educators at all levels are increasingly being called upon to enhance their own intercultural competence and to consider how best to translate this to students in their charge.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CI 67007 CRITICAL REFLECTION IN CURRICULUM AND INSTRUCTION 2 Credit Hours**

Capstone course for a master's degree in curriculum and instruction. Students critique their content area studies with reference to the standard of curriculum-based pedagogy. Three concepts inform this critique: continuing professional development, multicultural education, curriculum leadership for reform and renewal.

**Prerequisite:** CI 67001; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**CI 67010 CURRICULUM EVALUATION 3 Credit Hours**

(Slashed with CI 77010) Students learn to plan for and use a variety of techniques to gather information in systematic ways, across different phases of curriculum planning, development, implementation and evaluation to enhance decision-making processes. Students develop evaluation questions around a curriculum or program of their choice and then design a detailed evaluation plan.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CI 67091 SEMINAR IN CURRICULUM AND INSTRUCTION 1-4 Credit Hours**

(Slashed with CI 87091)(Repeatable for credit) A wide range of topics for advanced graduate inquiry. Normally, course provides a balance of theoretical study and creative application.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Seminar

**Contact Hours:** 1-4 other

**Grade Mode:** Standard Letter-IP

**CI 67092 ADVANCED PRACTICUM AND INTERNSHIP IN CURRICULUM AND INSTRUCTION 1-3 Credit Hours**

(Repeatable for credit) Supervised practicum in curriculum design, development, implementation and-or leadership. Planned with and directed by a graduate faculty member. Students are required to complete Bureau of Criminal Investigation and Identification (BCII) and Federal Bureau of Investigation (FBI) background checks and submit the results to authorized personnel at their assigned school-agency before the first day of the semester in which student teaching internship will take place.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Practical Experience

**Contact Hours:** 3-9 other

**Grade Mode:** Satisfactory/Unsatisfactory

**CI 67095 SPECIAL TOPICS IN CURRICULUM AND INSTRUCTION 1-5 Credit Hours**

(Slashed with CI 77095)(Repeatable for credit) Specialized offerings in response to emerging or selected program needs in curriculum design, development and implementation.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 1-5 lecture

**Grade Mode:** Standard Letter

**CI 67096 INDIVIDUAL INVESTIGATION IN CURRICULUM AND INSTRUCTION 1-5 Credit Hours**

(Repeatable for credit) Directed independent reading and/or research of special interest or need in student's program. Planned with and directed by a graduate faculty member.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Individual Investigation

**Contact Hours:** 1-5 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**CI 67098 RESEARCH IN CURRICULUM AND INSTRUCTION 1-15 Credit Hours**

(Repeatable for credit) Students pursue an individualized research project on a specialized topic with approval and under direction of instructor.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Research

**Contact Hours:** 1-15 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**CI 67105 IMPROVING CLASSROOM INSTRUCTION 3 Credit Hours**

(Slashed with CI 77105) Emphasizes motivation, varied materials and methods, individual needs and sources of teacher help. Class members define goals and means.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CI 67107 CURRICULUM AND ORGANIZATION IN THE MIDDLE GRADES 3 Credit Hours**

(Slashed with CI 77107) Course enhances students' knowledge, skills and dispositions about curriculum history and organization of middle schools (grades 4-9) that is developmentally responsive to early adolescents, and promotes student achievement and equity. In addition, students are able to extend their knowledge, skills, techniques and professional dispositions as related to middle school students' experiences, as well as to differentiate curriculum and assessment for diverse learners.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter



**CI 67108 TEACHING AND LEARNING IN THE MIDDLE GRADES 3 Credit Hours**

(Slashed with CI 77108) Course emphasizes theories of learning and teaching and their application to teaching in middle childhood classrooms with a diversity of learners. Major class topics include lesson planning, teaching strategies, assessment, classroom management and effective classroom instructions. In a concurrent clinical field experience, teacher candidates apply teaching methods in intermediate-middle school classrooms.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CI 67224 TEACHING MATHEMATICS USING COMPUTERS AND CALCULATORS 3 Credit Hours**

(Slashed with CI 77224) Students develop knowledge of research and theories regarding teaching and learning mathematics via computing devices. Students develop proficiency in the use of computing devices and software that would be used in the teaching and learning of mathematics.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CI 67225 RESEARCH IN MATHEMATICS EDUCATION 3 Credit Hours**

(Slashed with CI 77225) Current research theory, methodology and results in mathematics education are investigated. Implications for instructional practice and curriculum design are examined.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CI 67226 IMPROVING MATHEMATICS INSTRUCTION IN MIDDLE CHILDHOOD 3 Credit Hours**

(Slashed with CI 77226) Instructional psychology and materials, including technology, for the effective teaching of mathematics in grades 3-8, with a theoretical emphasis on cognitive development.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CI 67227 ASSESSMENT IN MATHEMATICS EDUCATION 2 Credit Hours**

(Slashed with CI 77227) Investigation of standards and practices in mathematical assessments as recommended by current research and the National Council of Teachers of Mathematics.

**Prerequisite:** Two courses from the following: ADED 52267, CI 67224, CI 67226 and/or ECED 50147; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**CI 67228 INTERVENTION IN MATHEMATICS INSTRUCTION 2 Credit Hours**

(Slashed with CI 77228) Investigation of alternative methods of teaching mathematics to diverse learners who experience difficulties in learning mathematics.

**Prerequisite:** Two courses from the following: ADED 52267, CI 67224, CI 67226 and/or ECED 50147; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**CI 67240 INTRODUCTION TO ENVIRONMENTAL EDUCATION 3 Credit Hours**

(Slashed with CI 77240) Survey course emphasizes current debates in environmental issues, exploring the interconnectedness of ecology, understanding the impact of culture and education on notions of environmental concerns, and how these ideas can be investigated within classroom contexts. The course is designed for teachers, science educators and other concerned citizens of the earth.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CI 67292 PRACTICUM IN MATHEMATICAL ASSESSMENT 2 Credit Hours**

(Repeatable for credit) Practicum experience in designing and administering both formal and informal assessments.

**Prerequisite:** Two courses from the following: ADED 52267, CI 67224, CI 67226 and/or ECED 50147; and graduate standing.

**Schedule Type:** Practical Experience

**Contact Hours:** 6 other

**Grade Mode:** Standard Letter

**CI 67310 THEORY AND PRACTICE IN THE TEACHING OF READING 3 Credit Hours**

(Slashed with CI 77310) Nature and development of reading, approaches to instruction, relation to learning and development.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CI 67312 TEACHING WRITING AS A PROCESS 3 Credit Hours**

(Slashed with CI 77312) Course emphasizes a process approach to writing instruction in grades K-12. Examines the steps and studies of composing, evaluation and components of a school-wide program.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CI 67314 SURVEY OF YOUNG ADULT LITERATURE 3 Credit Hours**

(Slashed with CI 77314) Presents a survey of selected types of literature appropriate for students in middle school, junior high and high school. Emphasis on evaluating, selecting and teaching.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CI 67315 SURVEY OF CHILDREN'S LITERATURE 3 Credit Hours**

(Slashed with CI 77315) Wide reading in children's literature, with particular application to school curriculum and field of reading.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CI 67319 DIAGNOSIS AND REMEDIATION IN READING 3 Credit Hours**

(Slashed with CI 77319) Theory and application of diagnostic principles and remedial reading approaches with school-age children. Cultural, linguistic, cognitive and effective factors in diagnosing and remediating reading problems.

**Prerequisite:** CI 67310; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CI 67320 TEACHER AS LITERACY RESEARCHER 3 Credit Hours**

Capstone experience in master's program in literacy in which students pursue an individualized literacy research program.

**Prerequisite:** CI 67351 or EVAL 65510 or EVAL 65511; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CI 67330 READING IN CONTENT AREAS 3 Credit Hours**

(Slashed with CI 77330) Information and competencies for improving students' reading and studying in the content areas. Focus on intermediate grades through post-secondary years.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CI 67339 WRITING ASSESSMENT AND RESPONSE 3 Credit Hours**

(Slashed with CI 77339) Exploration of issues in writing assessment, theoretical base for effective formative response to student writing and design, and implementation of writing assessment measures.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CI 67351 PERSPECTIVES ON LITERACY RESEARCH 3 Credit Hours**

(Slashed with CI 77351) Inquiry into basic concepts and agendas for research through a study of historical, landmark and ground-breaking studies in literacy.

**Prerequisite:** Reading Specialization major; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CI 67352 LITERACY COACHING 3 Credit Hours**

(Slashed with CI 77352) Focus on principles and strategies related to literacy coaching, within classrooms, schools and districts.

**Prerequisite:** CI 67310 and CI 67319 and CI 67330 and CI 67692 and MCED 50005; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CI 67353 MULTICULTURAL VOICES IN TEACHING CHILDREN'S AND YOUNG ADULT LITERATURE 3 Credit Hours**

(Slashed with CI 77353) Exploring diverse voices in children's and young adult literature in K-12 literacy classrooms to support culturally responsive teaching and learning and broaden student understandings of diversity.

**Prerequisite:** Reading Specialization major; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CI 67392 ADVANCED PRACTICUM AND INTERNSHIP IN READING 1-10 Credit Hours**

(Repeatable for credit) Supervised practicum requiring application of theory and practices in reading in field settings. Planned with and directed by a graduate faculty member. Students are required to complete Bureau of Criminal Investigation and Identification (BCII) and Federal Bureau of Investigation (FBI) background checks and submit the results to authorized personnel at their assigned school/agency before the first day of the semester in which student teaching/ internship will take place.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Practical Experience

**Contact Hours:** 3-30 other

**Grade Mode:** Standard Letter

**CI 67395 SPECIAL TOPICS IN READING 1-5 Credit Hours**

(Slashed with CI 77395)(Repeatable for credit) Specialized offerings in response to emerging or selected program needs in reading.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 1-5 lecture

**Grade Mode:** Standard Letter

**CI 67396 INDIVIDUAL INVESTIGATION IN READING AND LANGUAGE ARTS 1-5 Credit Hours**

(Repeatable for credit) Directed independent reading and/or research of special interest or need in student's program. Planned with and directed by a graduate faculty member.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Individual Investigation

**Contact Hours:** 1-5 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**CI 67517 NEW LITERACIES IN PRACTICE 3 Credit Hours**

(Slashed with CI 87517) Developing technologies are changing the very definition of literacy. Designed to provide an overview of current (and past) theory and practices related to the growing line of inquiry known as new literacies. Participants of the class follow their own paths of inquiry related to the question: How is the definition of literacy changing? Participants engage in discussions of theoretical positions related to this question (from perspectives as new literacies, multi-literacies and arts-based knowing to name a few) as well as encounter the basics of creating a blog or wiki and editing video. Appropriate for any educator who is interested in examining how new literacies are transforming the classrooms.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CI 67592 PRACTICUM IN MATHEMATICS EDUCATION INTERVENTION 3 Credit Hours**

(Repeatable for credit) Experience in providing leadership in designing intervention programs for schools, and designing curriculum and instruction for individual learners that experience difficulties in learning mathematics.

**Prerequisite:** Graduate standing.

**Schedule Type:** Practical Experience

**Contact Hours:** 9 other

**Grade Mode:** Standard Letter

**CI 67692 CLINICAL PRACTICUM IN CORRECTIVE READING 3 Credit Hours**

Application of previous courses includes supervised diagnostic/prescriptive reading work with school-age pupils and diagnostic/remedial reporting.

**Prerequisite:** CI 67319; and graduate standing; and special approval.

**Schedule Type:** Practical Experience

**Contact Hours:** 9 other

**Grade Mode:** Standard Letter

**CI 67791 SEMINAR IN MATHEMATICS EDUCATION 3 Credit Hours**

(Repeatable for credit) An in-depth exploration of the theoretical frameworks and methodologies used in current research in mathematics education.

**Prerequisite:** Graduate standing.

**Schedule Type:** Seminar

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**CI 70093 VARIABLE TITLE WORKSHOP IN CURRICULUM AND INSTRUCTION 1-5 Credit Hours**

(Slashed with CI 40093 and CI 50093) (Repeatable for credit) Variable topic workshop designed to respond to curriculum trends and issues and specialized needs.

**Prerequisite:** Doctoral standing; and special approval.

**Schedule Type:** Workshop

**Contact Hours:** 3 other

**Grade Mode:** Satisfactory/Unsatisfactory

**CI 71124 EDUCATING THE GOOD CITIZEN 3 Credit Hours**

(Slashed with CI 61124) Course explores the competing conceptions of citizenship education through an examination and critique of the diverse perspectives on the purposes and possibilities of citizenship education—including the contributions and influence of multicultural, international and theoretical perspectives on the meaning of educating citizens in a democracy—situating work, thinking and practice in the literature. As part of the process of reading, discussing and deliberating together, students articulate a rationale for citizenship education and develop ways to incorporate their vision for citizenship education into their work as teacher educators, practicing social studies teachers and/or community members.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Seminar

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**CI 71125 ISSUES AND TRENDS IN SOCIAL STUDIES EDUCATION 3 Credit Hours**

(Slashed with CI 61125) Provides an overview of historical trends and contemporary issues in social studies education.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CI 71126 RESEARCH IN SOCIAL STUDIES TEACHING AND LEARNING 3 Credit Hours**

(Slashed with CI 61126) Students examine, discuss and study research in the teaching and learning of social studies, as well as develop their own study of social studies teaching and learning.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CI 71127 TECHNOLOGY AND SOCIAL STUDIES 3 Credit Hours**

(Slashed with CI 61127) Course provides experiences with and study of various uses of technology in social studies teaching and learning. Students examine implications and effects of technology on student learning, teaching and society as a whole.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CI 71130 MULTICULTURAL EDUCATION: STRATEGIES 3 Credit Hours**

(Slashed with CI 61130) Course provides the strategies for teaching children to function effectively in a pluralistic society.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CI 71133 ISSUES AND TRENDS IN ELEMENTARY SCIENCE 3 Credit Hours**

(Slashed with CI 61133) New discoveries in science, including issues in society with direct science content. Emphasis is on practical and simple classroom applications.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CI 71134 RESEARCH TRENDS IN SCIENCE EDUCATION 3 Credit Hours**

(Slashed with CI 61134) Course in issues relating to research methods pertinent to science education.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CI 71140 CULTURE AND MULTICULTURALISM IN SCIENCE EDUCATION 3 Credit Hours**

(Slashed with CI 61140) Provides a general introduction to the impacts of multiculturalism and the social studies of science on science education. Implications for science educational curriculum theory, classroom practice and research are explored. Teaching topics examined include race and gender in science education, culture of science and science in a global context..

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CI 71141 NATURE OF SCIENCE IN SCIENCE EDUCATION 3 Credit Hours**

(Slashed with CI 61141) Course in issues relating to the nature of science as it impacts science education.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CI 75592 PRACTICUM IN ADAPTED PHYSICAL EDUCATION 3 Credit Hours**

(Repeatable for credit) Supervised and supervisory experiences in motor development for all ages and abilities, including conceptual bases for assessment and individualized task analysis.

**Prerequisite:** Doctoral standing; and special approval.

**Schedule Type:** Practical Experience

**Contact Hours:** 9 other

**Grade Mode:** Standard Letter-IP

**CI 77001 FUNDAMENTALS OF CURRICULUM 3 Credit Hours**

(Slashed with CI 67001) Orientation to the curriculum field. Theoretical examination of foundations, elements, design and development of school, college and non-school curricula.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CI 77002 CURRICULUM LEADERSHIP 3 Credit Hours**

Course explores the theories and practices of curriculum leadership with reference to the current politics of education and the democratic ideals of information-age, pluralistic societies. Mandated accountability reform is critically compared to invited professional renewal. It is recommended that students complete CI 77001 or a compatible professional experience with fundamentals of curriculum work is before taking this course.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CI 77003 TEACHER EDUCATION 3 Credit Hours**

(Slashed with CI 67003) Course provides a broad overview of teacher education, including curriculum, organization, governance and policy.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CI 77004 PROFESSIONAL DEVELOPMENT IN TEACHING 3 Credit Hours**

(Slashed with CI 67004) Course provides a broad overview and conceptual framework for professional development; its historical, cultural, psychological and social contexts.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CI 77005 INTERCULTURAL DIMENSIONS OF TEACHING AND LEARNING 3 Credit Hours**

(Slashed with CI 67005) Course addresses teaching and learning in the intercultural K-16 context. Increasing intercultural interaction in schools and communities across the nation and around the world are prompting educational changes in terms of what is being taught and how it is being taught. Educators at all levels are increasingly being called upon to enhance their own intercultural competence and to consider how best to translate this to students in their charge.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CI 77010 CURRICULUM EVALUATION 3 Credit Hours**

(Slashed with CI 67010) Students learn to plan for and use a variety of techniques to gather information in systematic ways, across different phases of curriculum planning, development, implementation and evaluation to enhance decision-making processes. Students develop evaluation questions around a curriculum or program of their choice and then design a detailed evaluation plan.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CI 77092 ADVANCED PRACTICUM IN CURRICULUM AND INSTRUCTION 1-3 Credit Hours**

(Repeatable for credit) Supervised practicum in curriculum design, development, implementation and-or leadership. Planned with and directed by a graduate faculty member. Students are required to complete Bureau of Criminal Investigation and Identification (BCII) and Federal Bureau of Investigation (FBI) background checks and submit the results to authorized personnel at their assigned school-agency before the first day of the semester in which student teaching internship will take place.

**Prerequisite:** Doctoral standing; and special approval.

**Schedule Type:** Practical Experience

**Contact Hours:** 3-9 other

**Grade Mode:** Satisfactory/Unsatisfactory

**CI 77095 SPECIAL TOPICS IN CURRICULUM AND INSTRUCTION 1-5 Credit Hours**

(Slashed with CI 67095)(Repeatable for credit) Specialized offerings in response to emerging or selected program needs in curriculum design, development and implementation.

**Prerequisite:** Doctoral standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 1-5 lecture

**Grade Mode:** Standard Letter

**CI 77096 INDIVIDUAL INVESTIGATION IN CURRICULUM AND INSTRUCTION 1-5 Credit Hours**

(Repeatable for credit) Directed independent reading and/or research of special interest or need in student's program. Planned with and directed by a graduate faculty member.

**Prerequisite:** Doctoral standing; and special approval.

**Schedule Type:** Individual Investigation

**Contact Hours:** 1-5 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**CI 77105 IMPROVING CLASSROOM INSTRUCTION 3 Credit Hours**

(Slashed with CI 67105) Emphasizes motivation, varied materials and methods individual needs and sources of teacher help. Class members define goals and means.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CI 77107 CURRICULUM AND ORGANIZATION IN THE MIDDLE GRADES 3 Credit Hours**

(Slashed with CI 67107) Course enhances students' knowledge, skills and dispositions about curriculum history and organization of middle schools (grades 4-9) that is developmentally responsive to early adolescents, and promotes student achievement and equity. In addition, students are able to extend their knowledge, skills, techniques and professional dispositions as related to middle school students' experiences, as well as to differentiate curriculum and assessment for diverse learners.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CI 77108 TEACHING AND LEARNING IN THE MIDDLE GRADES 3 Credit Hours**

(Slashed with CI 67108) Course emphasizes theories of learning and teaching and their application to teaching in middle childhood classrooms with a diversity of learners. Major class topics include lesson planning, teaching strategies, assessment, classroom management and effective classroom instructions. In a concurrent clinical field experience, teacher candidates apply teaching methods in intermediate-middle school classrooms.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CI 77224 TEACHING MATHEMATICS USING COMPUTERS AND CALCULATORS 3 Credit Hours**

(Slashed with CI 67224) Students develop knowledge of research and theories regarding teaching and learning mathematics via computing devices. Students develop proficiency in the use of computing devices and software that would be used in the teaching and learning of mathematics.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CI 77225 RESEARCH IN MATHEMATICS EDUCATION 3 Credit Hours**

(Slashed with CI 67225) Current research theory, methodology and results in mathematics education are investigated. Implications for instructional practice and curriculum design are examined.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CI 77226 IMPROVING MATHEMATICS INSTRUCTION IN MIDDLE CHILDHOOD 3 Credit Hours**

(Slashed with CI 67226) Instructional psychology and materials, including technology, for the effective teaching of mathematics in grades 3-8, with a theoretical emphasis on cognitive development.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CI 77227 ASSESSMENT IN MATHEMATICS EDUCATION 2 Credit Hours**

(Slashed with CI 67227) Investigation of standards and practices in mathematical assessments as recommended by current research and the National Council of Teachers of Mathematics.

**Prerequisite:** Two courses from the following: ADED 52267, CI 77224, CI 77226 and/or ECED 50147; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**CI 77228 INTERVENTION IN MATHEMATICS INSTRUCTION 2 Credit Hours**

(Slashed with CI 67228) Investigation of alternative methods of teaching mathematics to diverse learners who experience difficulties in learning mathematics.

**Prerequisite:** Two courses from the following: ADED 52267, CI 77224, CI 77226 and/or ECED 50147; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**CI 77240 INTRODUCTION TO ENVIRONMENTAL EDUCATION 3 Credit Hours**

(Slashed with CI 67240) Survey course emphasizing current debates in environmental issues, exploring the interconnectedness of ecology, understanding the impact of culture and education on notions of environmental concerns, and how these ideas can be investigated within classroom contexts. The course is designed for teachers, science educators and other concerned citizens of the earth.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CI 77292 PRACTICUM IN MATHEMATICAL ASSESSMENT 2 Credit Hours**

(Repeatable for credit) Practicum experience in designing and administering both formal and informal assessments.

**Prerequisite:** Two courses from the following: ADED 52267, CI 77224, CI 77226 and/or ECED 50147; and doctoral standing.

**Schedule Type:** Practical Experience

**Contact Hours:** 6 other

**Grade Mode:** Standard Letter

**CI 77310 THEORY AND PRACTICE IN THE TEACHING OF READING 3 Credit Hours**

(Slashed with CI 67310) Nature and development of reading, approaches to instruction, relation to learning and development.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter



**CI 77312 TEACHING WRITING AS A PROCESS 3 Credit Hours**

(Slashed with CI 67312) Course emphasizes a process approach to writing instruction in grades K-12. Examines the steps and studies of composing, evaluation and components of a school-wide program.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CI 77314 SURVEY OF YOUNG ADULT LITERATURE 3 Credit Hours**

(Slashed with CI 67314) Presents a survey of selected types of literature appropriate for students in middle school, junior high and high school. Emphasis on evaluating, selecting and teaching.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CI 77315 SURVEY OF CHILDREN'S LITERATURE 3 Credit Hours**

(Slashed with CI 67315) Wide reading in children's literature, with particular application to school curriculum and field of reading.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CI 77319 DIAGNOSIS AND REMEDIATION IN READING 3 Credit Hours**

(Slashed with CI 67319) Theory and application of diagnostic principles and remedial reading approaches with school-age children. Cultural linguistic cognitive and affective factors in diagnosing and remediating reading problems.

**Prerequisite:** CI 77310; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CI 77330 READING IN CONTENT AREAS 3 Credit Hours**

(Slashed with CI 67330) Information and competencies for improving students' reading and studying in the content areas. Focus on intermediate grades through post-secondary years.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CI 77339 WRITING ASSESSMENT AND RESPONSE 3 Credit Hours**

(Slashed with CI 67339) Exploration of issues in writing assessment, theoretical base for effective formative response to student writing, and design and implementation of writing assessment measures.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CI 77351 PERSPECTIVES ON LITERACY RESEARCH 3 Credit Hours**

(Slashed with CI 67351) Inquiry into basic concepts and agendas for research through a study of historical, landmark and ground-breaking studies in literacy.

**Prerequisite:** Curriculum and Instruction major; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CI 77352 LITERACY COACHING 3 Credit Hours**

(Slashed with CI 67352) Focus on principles and strategies related to literacy coaching, within classrooms, schools and districts.

**Prerequisite:** CI 77310 and CI 77319 and CI 77330 and CI 77692 and MCED 50005; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CI 77353 MULTICULTURAL VOICES IN TEACHING CHILDREN'S AND YOUNG ADULT LITERATURE 3 Credit Hours**

(Slashed with CI 67353) Exploring diverse voices in children's and young adult literature in K-12 literacy classrooms to support culturally responsive teaching and learning and broaden student understandings of diversity.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CI 77392 ADVANCED PRACTICUM AND INTERNSHIP IN READING 1-10 Credit Hours**

(Repeatable for credit) Supervised program requiring application of theory and practices in reading in field settings. Planned with and directed by a graduate faculty member. Students are required to complete Bureau of Criminal Investigation and Identification (BCII) and Federal Bureau of Investigation (FBI) background checks and submit the results to authorized personnel at their assigned school/agency before the first day of the semester in which student teaching/internship will take place.

**Prerequisite:** Doctoral standing; and special approval.

**Schedule Type:** Practical Experience

**Contact Hours:** 3-30 other

**Grade Mode:** Standard Letter

**CI 77395 SPECIAL TOPICS IN READING 1-5 Credit Hours**

(Slashed with CI 67395)(Repeatable for credit) Specialized offerings in response to emerging or selected program needs in reading.

**Prerequisite:** Doctoral standing and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 1-5 lecture

**Grade Mode:** Standard Letter

**CI 77396 INDIVIDUAL INVESTIGATION IN READING AND LANGUAGE ARTS 1-5 Credit Hours**

(Repeatable for credit) Directed independent reading and/or research of special interest or need in student's program. Planned with and directed by a graduate faculty member.

**Prerequisite:** Doctoral standing; and special approval.

**Schedule Type:** Individual Investigation

**Contact Hours:** 1-5 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**CI 77592 PRACTICUM IN MATHEMATICS EDUCATION INTERVENTION 3 Credit Hours**

(Repeatable for credit) Experience in providing leadership in designing intervention programs for schools, and designing curriculum and instruction for individual learners that experience difficulties in learning mathematics.

**Prerequisite:** ADED 52267 and CI 77224 and CI 77226 and ECED 50147; and doctoral standing.

**Schedule Type:** Practical Experience

**Contact Hours:** 9 other

**Grade Mode:** Standard Letter

**CI 77692 CLINICAL PRACTICUM IN CORRECTIVE READING 3 Credit Hours**

Application of previous courses includes supervised diagnostic/prescriptive reading work with school-age pupils and diagnostic/remedial reporting.

**Prerequisite:** CI 77319; and doctoral standing; and special approval.

**Schedule Type:** Practical Experience

**Contact Hours:** 9 other

**Grade Mode:** Standard Letter

**CI 77791 SEMINAR IN MATHEMATICS EDUCATION 3 Credit Hours**

(Repeatable for credit) An in-depth exploration of the theoretical frameworks and methodologies used in current research in mathematics education.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Seminar

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**CI 80089 RESIDENCY I 3 Credit Hours**

Beginning doctoral seminar. Students explore the field of curriculum and instruction by reading and discussing foundational and current theories and research in the field. Students begin to identify and explore their research interests in the field.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Satisfactory/Unsatisfactory

**CI 80090 RESIDENCY II 3 Credit Hours**

Advanced doctoral seminar. Structured opportunity for students to synthesize research from the field, explore research options for their dissertation study, review literature for their research studies and discuss the development of their research.

**Prerequisite:** CI 80089; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Satisfactory/Unsatisfactory

**CI 80199 DISSERTATION I 15 Credit Hours**

(Repeatable for credit) Doctoral dissertation for which registration in at least two semesters is required, first of which will be semester in which dissertation work is begun and continuing until the completion of 30 hours.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Dissertation

**Contact Hours:** 15 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**CI 80299 DISSERTATION II 15 Credit Hours**

(Repeatable for credit) Continuing registration required of doctoral students who have completed the initial 30 hours of dissertation and continuing until all degree requirements are met.

**Prerequisite:** CI 80199; and doctoral standing.

**Schedule Type:** Dissertation

**Contact Hours:** 15 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**CI 85025 CONTEMPORARY ISSUES IN SPORT PEDAGOGY - AN INTERNATIONAL PERSPECTIVE 3 Credit Hours**

(Slashed with CI 65025) An international perspective on the investigation and study of current problems, issues and trends in sport pedagogy.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CI 85037 ADAPTED PHYSICAL EDUCATION 3 Credit Hours**

(Slashed with CI 65037) Course prepares physical education teachers to provide safe, appropriate and individualized accommodations to students with disabilities. All information presented is structured around research-based and cross-culturally appropriate practices in adapted physical education that have been implemented in physical education programs globally.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CI 85044 PEDAGOGICAL ANALYSIS OF PHYSICAL EDUCATION AND SPORT 3 Credit Hours**

(Slashed with CI 65044) An analysis of contemporary pedagogical models, practices and theories relevant to the multidimensional environments of physical education and sport.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CI 85055 CURRICULUM DEVELOPMENT IN SPORT PEDAGOGY 3 Credit Hours**

(Slashed with CI 65055) The analysis, development and design of curricular theory and practice in physical education and sport. An examination of current and future issues in curriculum implementation.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CI 87000 THEORY AND RESEARCH IN TEACHING 3 Credit Hours**

Focuses on critical study of contrasting approaches to the study of teaching processes. Surveys issues to give students a more critical perspective and to provoke thought about the relationship among theory research and practice.

**Prerequisite:** Doctoral standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CI 87001 THEORY AND RESEARCH IN CURRICULUM 3 Credit Hours**

Focuses on historic and contemporary examples of curriculum theory and their application in curriculum design, development and evaluation. Examines modes of inquiry used by curriculum researchers and contemporary curriculum issues.

**Prerequisite:** CI 77001; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CI 87002 FORMS OF INQUIRY IN CURRICULUM AND INSTRUCTION 3 Credit Hours**

Introduction to the history, context, philosophy and ethics of inquiry in curriculum and instruction. Emphasis on acquainting students with faculty lines of inquiry and research foci while preparing them for critical consumption of and significant contribution to inquiry in curriculum and instruction.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**CI 87091 SEMINAR IN CURRICULUM AND INSTRUCTION 1-4 Credit Hours**

(Slashed with CI 87091)(Repeatable for credit) A wide range of topics for advanced graduate inquiry. Normally, course provides a balance of theoretical study and creative application.

**Prerequisite:** Doctoral standing; and special approval.

**Schedule Type:** Seminar

**Contact Hours:** 1-4 other

**Grade Mode:** Standard Letter-IP

**CI 87098 RESEARCH IN CURRICULUM AND INSTRUCTION 1-15 Credit Hours**

(Repeatable for credit) Students pursue an individualized research project on a specialized topic with approval and under direction of instructor.

**Prerequisite:** Doctoral standing; and special approval.

**Schedule Type:** Research

**Contact Hours:** 1-15 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**CI 87340 RESEARCH IN READING 3 Credit Hours**

An introduction to a perspective on psychological processes underlying levels of reading from pre-reading to mature reading with implications for instruction.

**Prerequisite:** Doctoral standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CI 87342 SEMINAR IN READING AND LANGUAGE 3 Credit Hours**

Exploration of some of the issues, methods and findings on the relationship of reading and language. Examination of selected issues such as dialect bilingualism readability language based-strategies for reading instruction.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CI 87343 RESEARCH IN TEACHING OF WRITING 3 Credit Hours**

Issues and methodologies in research in the teaching of writing. Students review the literature and conduct research in a significant area of writing instruction.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CI 87391 SEMINAR IN READING 1-4 Credit Hours**

(Repeatable for credit) Variable topic seminar for advanced study of specialized areas and topics. Normally designed around research and theory applied to practice.

**Prerequisite:** Doctoral standing; and special approval.

**Schedule Type:** Seminar

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**CI 87398 RESEARCH IN READING AND LANGUAGE ARTS 1-15 Credit Hours**

(Repeatable for credit) Students pursue an individualized research project on a specialized topic with approval and under direction of instructor.

**Prerequisite:** Doctoral standing; and special approval.

**Schedule Type:** Research

**Contact Hours:** 1-15 other

**Grade Mode:** Standard Letter

**CI 87517 NEW LITERACIES IN PRACTICE 3 Credit Hours**

(Slashed with CI 67517) Developing technologies are changing the very definition of literacy. Designed to provide an overview of current (and past) theory and practices related to the growing line of inquiry known as new literacies. Participants of the class follow their own paths of inquiry related to the question: How is the definition of literacy changing? Participants engage in discussions of theoretical positions related to this question (from perspectives as new literacies, multi-literacies and arts-based knowing to name a few) as well as encounter the basics of creating a blog or wiki and editing video. Appropriate for any educator who is interested in examining how new literacies are transforming the classrooms.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CI 87791 DOCTORAL SEMINAR IN MATHEMATICS EDUCATION 1-3 Credit Hours**

(Repeatable for a maximum of 12 credit hours) Variable content seminar covering mathematics education. Students must seek faculty advisor recommendation prior to registration.

**Prerequisite:** Curriculum and Instruction major; and doctoral standing.

**Schedule Type:** Seminar

**Contact Hours:** 1-3 other

**Grade Mode:** Standard Letter

**Early Childhood Education (ECED)****ECED 10120 INTRODUCTION TO EARLY CHILDHOOD SERVICES 2 Credit Hours**

Orientation to the field of early childhood education: historical and present day programs and services for young children 0-8.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**ECED 20101 UNDERSTANDING YOUNG CHILDREN'S DEVELOPMENT**  
**3 Credit Hours**

Growth and development of young children from birth to age 11 as it occurs along both typical and atypical pathways. There are field-based assignments in this course.

**Prerequisite:** Minimum C grade in ECED 10120; and special approval.

**Pre/corequisite:** Minimum C grade in SPED 23000; and admission to advanced study.

**Corequisite:** ECED 20102, ECED 20103, ECED 20104 and ECED 20192 (Block I).

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ECED 20102 SOCIAL STUDIES AND THE ARTS IN PRESCHOOL**  
**3 Credit Hours**

Young children's development in the expressive arts and social studies; implications for development of the environment, integrated curriculum and teaching methods for preschool children. There are field-based assignments in this course.

**Prerequisite:** Admission to advanced study.

**Corequisite:** ECED 20101, ECED 20103, ECED 20104 and ECED 20192 (Block I).

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ECED 20103 SEMINAR: PRESCHOOL TEACHING AND LEARNING**  
**3 Credit Hours**

(Equivalent to ECET 22000) Integrated field-based seminar that gives students a foundation for the ways children learn during preschool years. Field-based assignments are included. Students are required to complete Bureau of Criminal Investigation and Identification (BCII) and Federal Bureau of Investigation (FBI) background checks and submit the results to authorized personnel at their assigned school or agency before the first day of the semester.

**Prerequisite:** Admission to advanced standing.

**Corequisite:** ECED 20101, ECED 20102, ECED 20104 and ECED 20192 (Block I).

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ECED 20104 PARTNERING WITH FAMILIES FOR EFFECTIVE GUIDANCE**  
**3 Credit Hours**

(Equivalent to ECET 21005) Appropriate guidance strategies set the foundation for positive experiences our youngest children in school; patterns learned early often set a foundation for primary school entry. This course addresses the concerns of guidance, family partnerships, and inclusive schooling with preschool children and their educators. It takes a proactive stance, helping teachers develop a constructive guidance approach. There are field-based assignments in this course.

**Prerequisite:** Admission to advanced study.

**Corequisite:** ECED 20101, ECED 20102, ECED 20103 and ECED 20192 (Block I).

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ECED 20163 UNDERSTANDING YOUNG CHILDREN: TYPICAL AND ATYPICAL PATHWAYS**  
**3 Credit Hours**

Growth and development of young children from birth to age eight as it occurs along both typical and atypical pathways. Pre/Corequisite: SPED 23000; and admission to advanced study.

**Prerequisite:** ECED 10120; and special approval.

**Corequisite:** ECED 30134 and 30164 and 40145.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** TAG Education

**ECED 20192 CLINICAL EXPERIENCE IN PRESCHOOL (ELR)**  
**3 Credit Hours**

(Equivalent to ECET 22192) Internship in preschool settings. Official valid certification of Child Safety Training, approved Basic Life Support and A.L.I.C.E. Training must be presented to the campus office of clinical experience or designated faculty-staff at Regional campuses as prerequisite for student teaching.

**Prerequisite:** Admission to advanced study.

**Corequisite:** ECED 20101, ECED 20102, ECED 20103 and ECED 20104 (Block I).

**Schedule Type:** Practical Experience

**Contact Hours:** 15 other

**Grade Mode:** Satisfactory/Unsatisfactory

**Attributes:** Experiential Learning Requirement

**ECED 22222 INTEGRATED PRIMARY CURRICULUM**  
**3 Credit Hours**

This course extends student's knowledge of the application of integrated curriculum through the study and critique of pedagogical and curricular approaches in the early primary years classroom. This course has a field component attached to it. Students are required to complete Bureau of Criminal Investigation and Identification (BCII) and Federal Bureau of Investigation (FBI) background checks and submit the results to authorized personnel at their assigned school-agency before the first day of the semester in which student teaching internship will take place.

**Prerequisite:** Minimum C grade in the following courses ECED 20101, ECED 20102, ECED 20103, ECED 20104 and ECED 20192 (Block I); and admission to advanced study.

**Corequisite:** ECED 30201, ECED 30202 and ECED 40203 (Block II).

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ECED 30123 LANGUAGE AND LITERACY FOR THE PRESCHOOL CHILD**  
**3 Credit Hours**

(Equivalent to ECET 22130) An examination of the process of language and literacy development in preschool children. The course focuses on how preschool teachers integrate knowledge of development with early school and family literacy learning.

**Prerequisite:** Admission to advanced study.

**Corequisite:** ECED 30142 and ECED 30147 and ECED 40165 and ECED 40192 (ECED Block II).

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ECED 30134 INTEGRATED EXPRESSIVE ARTS AND SOCIAL STUDIES IN PRESCHOOL 3 Credit Hours**

Young children's development in the expressive arts and social studies; implications for development of the environment, integrated curriculum and teaching methods for preschool children.

**Prerequisite:** Admission to advanced study.

**Corequisite:** ECED 20163 and ECED 30164 and ECED 40145 (ECED Block I).

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ECED 30142 PARTNERSHIPS AND GUIDANCE FOR PRESCHOOL CHILDREN 3 Credit Hours**

(Equivalent to ECET 21005) Appropriate guidance strategies set the foundation for positive experiences our youngest children in school; patterns learned early often set a foundation for primary school entry. This course addresses the concerns of guidance family partnerships and inclusive schooling with preschool children and their educators. It takes a proactive stance, helping teachers develop a constructive guidance approach.

**Prerequisite:** Admission to advanced study.

**Corequisite:** ECED 30123 and ECED 30147 and ECED 40165 and ECED 40192 (ECED Block II).

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ECED 30144 INTEGRATED CURRICULUM FOR SOCIAL STUDIES 3 Credit Hours**

Objectives, resources, curriculum development, methods of teaching social studies and expressive arts at kindergarten and primary levels; emphasis on developing integrated social studies curriculum; infusing multiple forms of expressive arts into integrated curriculum and assessment; and engaging professional collaboration with teachers in the field.

**Prerequisite:** ECED 30134; and admission to advanced study.

**Corequisite:** ECED 40142 and ECED 40105 and ECED 40107 and ECED 40123.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ECED 30147 EARLY EXPERIENCES IN MATHEMATICS AND SCIENCE 3 Credit Hours**

Instructional psychology and materials for effective teaching of mathematics and science in preschool settings with a theoretical emphasis on cognitive development.

**Prerequisite:** MATH 14001 and 14002 with a minimum of a C grade; and admission to advanced study.

**Corequisite:** ECED 30123 and ECED 30142 and ECED 40165 and ECED 40192.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ECED 30164 PRESCHOOL EDUCATION 3 Credit Hours**

Integrated curriculum utilizing principles of developmentally appropriate practice in settings for children under five. Field experience two mornings a week. Students are required to complete Bureau of Criminal Investigation and Identification (BCII) and Federal Bureau of Investigation (FBI) background checks and submit the results to authorized personnel at their assigned school or agency before the first day of the semester.

**Prerequisite:** Admission to advanced standing.

**Corequisite:** ECED 20163 and ECED 30134 and ECED 40145 (ECED Block I).

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ECED 30201 LANGUAGES AND LITERACIES 3 Credit Hours**

(Slashed with ECET 22130) An examination of the process of languages and literacies development. This course focuses on teaching literacy to primary age students.

**Prerequisite:** Minimum C grade in the following courses, ECED 20101, ECED 20102, ECED 20103, ECED 20104 and ECED 20192 (Block I); and admission to advanced study.

**Corequisite:** ECED 22222, ECED 30202 and ECED 40203 (Block II).

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ECED 30202 MATHEMATICS AND SCIENCE IN THE EARLY YEARS 3 Credit Hours**

Instructional psychology and materials for effective teaching of mathematics and science in preschool settings with a theoretical emphasis on cognitive development. There are field-based projects in this course.

**Prerequisite:** ECED 20101, ECED 20102, ECED 20103, ECED 20104 and ECED 20192 (Block I) all with a minimum C grade; and admission to advanced study.

**Corequisite:** ECED 22222, ECED 30201 and ECED 40203 (Block II).

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ECED 40092 INTEGRATED FIELD EXPERIENCES (ELR) 3 Credit Hours**

(Repeatable for credit) Participation in experiences offering opportunity to plan and teach reading, language arts, integrated content units and observe students in early childhood classrooms. Students are required to complete Bureau of Criminal Investigation and Identification (BCII) and Federal Bureau of Investigation (FBI) background checks and submit the results to authorized personnel at their assigned school agency before the first day of the semester in which student teaching internship will take place.

**Prerequisite:** Admission to advanced study.

**Corequisite:** ECED 40114 and ECED 40126 and ECED 40127 and ECED 40147.

**Schedule Type:** Practical Experience

**Contact Hours:** 9 other

**Grade Mode:** Satisfactory/Unsatisfactory

**Attributes:** Experiential Learning Requirement



**ECED 40093 VARIABLE TITLE WORKSHOP IN EARLY CHILDHOOD EDUCATION 1-5 Credit Hours**

(Repeatable for credit) (Slashed with ECED 50093 and ECED 70093)  
Topics of special interest to students desiring to intensify their knowledge in particular areas. Presenters include Kent early childhood faculty members and may include experts from outside agencies and other institutions.

**Prerequisite:** Permission.

**Schedule Type:** Workshop

**Contact Hours:** 3 other

**Grade Mode:** Satisfactory/Unsatisfactory

**ECED 40105 APPROPRIATE PHONICS INSTRUCTION FOR KINDERGARTEN AND PRIMARY CHILDREN 3 Credit Hours**

(Slashed with ECED 50105) An examination of phonics in early reading and writing development, effective strategies for teaching and assessing phonics appropriate for kindergarten and primary grade children.

**Prerequisite:** ECED 30123; and admission to advanced study.

**Corequisite:** ECED 30144 ECED 40107 and ECED 40123 and ECED 40142 (Block III).

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ECED 40107 TEACHING MATHEMATICS: EARLY YEARS I 3 Credit Hours**

Instructional psychology and materials for effective teaching of mathematics in grades K-1 with a theoretical emphasis on cognitive development.

**Prerequisite:** ECED 30147 and MATH 14001 and 14002; and admission to advanced study.

**Corequisite:** ECED 30144 and ECED 40105 and ECED 40123 and ECED 40142.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ECED 40114 TEACHING SCIENCE IN THE EARLY YEARS 3 Credit Hours**

(Slashed with ECED 50114) This course investigates engaging young children in inquiry-based processes of science. Emphasis is given to creating developmentally appropriate experiences in accordance to NAEYC guidelines. National and state science standards as well as the college and graduate school of education conceptual framework. Attention is focused on the use of science materials safety planning assessment and incorporating science across the curriculum.

**Prerequisite:** ECED 30147; and admission to advanced study.

**Corequisite:** ECED 40126 and ECED 40127 and ECED 40092 and ECED 40147 (Block IV).

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ECED 40123 CRITICAL INQUIRY INTO INTEGRATED CURRICULUM IN THE PRIMARY YEARS 3 Credit Hours**

(Slashed with ECED 50123) Theoretical and content background addressing integration of curriculum and global perspectives aligned with the International Baccalaureate Primary Years Program.

**Prerequisite:** Admission to advanced study.

**Corequisite:** ECED 30144 and ECED 40105 and ECED 40107 and ECED 40142.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ECED 40125 INQUIRY INTO PROFESSIONAL PRACTICE 3 Credit Hours**

Interdisciplinary inquiry into teaching as a professional practice in early childhood education. Completion of edTPA portfolio.

**Prerequisite:** ECED 40401, ECED 40402, ECED 40403, ECED 40404 and ECED 44444 (Block IV) all with a minimum C grade; and admission to advanced study.

**Corequisite:** ECED 40292.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ECED 40126 DEVELOPMENTAL READING AND WRITING: EARLY YEARS 3 Credit Hours**

(Slashed with ECED 50126) This course explores how teachers support children's literacy development through small group strategic instruction based on formative assessments.

**Prerequisite:** ECED 40105; and admission to advanced study.

**Corequisite:** ECED 40092 and ECED 40114 and ECED 40127 and ECED 40147.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ECED 40127 DEVELOPING A BALANCED LITERACY PROGRAM (WIC) 3 Credit Hours**

This course expands on the previous three literacy courses to explore how research-based instruction requires a balance of literacy learning formats; an integration with learning in the content areas and is based on assessment of individual children's writing abilities and how to design instruction to meet the needs of writers. The course specifically develops understandings about principles, practices, theories and research related to writing instruction.

**Prerequisite:** ECED 40105; and admission to advanced study.

**Corequisite:** ECED 40114 and ECED 40126 and ECED 40092 and ECED 40147.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Writing Intensive Course

**ECED 40142 HOME-SCHOOL-COMMUNITY-PARTNERSHIPS IN DIVERSE CONTEXTS (ELR) 3 Credit Hours**

(Slashed with ECED 50142) Approaches to parent and community involvement in the education and welfare of children are examined, applied, and discussed. Focuses are theories, policies, practices, skills, and knowledge of partnership building in educational settings. An emphasis on differentiation of practices for diverse communities is applied to teaching and learning in the primary grades.

**Prerequisite:** Admission to advanced study.

**Corequisite:** ECED 30144 and ECED 40105 and 40107 and 40123.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Experiential Learning Requirement, TAG Education

**ECED 40145 MUSIC MOVEMENT IN PRE-PRIMARY EDUCATION 3 Credit Hours**

(Slashed with ECED 50145) Music and movement for pre-primary children. Course intended for majors in early childhood education or other persons desiring additional work with pre-primary children.

**Prerequisite:** Admission to advanced study.

**Corequisite:** ECED 20163 and ECED 30134 and ECED 30164 (ECED Block I).

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ECED 40147 TEACHING MATHEMATICS:EARLY YEARS II 3 Credit Hours**

Instructional psychology and materials for effective teaching of mathematics in grades K-3 with a theoretical emphasis on cognitive development.

**Prerequisite:** MATH 14001 and 14002 with a minimum C grade; and admission to advanced study.

**Corequisite:** ECED 40114 and ECED 40126 and ECED 40127 and ECED 40092 (Block IV).

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ECED 40151 GUIDANCE OF YOUNG CHILDREN 3 Credit Hours**

Principles and practices of appropriate guidance for young children, intervention strategies, resources and materials for guidance.

**Prerequisite:** Admission to advanced study.

**Corequisite:** ECED 40105 and 40107 and 40142 and CULT 29535.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ECED 40165 INTEGRATED APPLICATION OF PRESCHOOL CURRICULUM 3 Credit Hours**

(Equivalent to ECET 22140) Internship in preschool. Advanced integrated preschool curriculum utilizing principles of developmentally appropriate practice focusing on infant toddler and preschool age children.

Students are required to complete Bureau of Criminal Investigation and Identification (BCII) and Federal Bureau of Investigation (FBI) background checks and submit the results to authorized personnel at their assigned school-agency before the first day of the semester in which student teaching internship will take place.

**Prerequisite:** ECED 30164.

**Corequisite:** ECED 30123 and ECED 30142 and ECED 30147 and ECED 40192.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ECED 40192 INTERNSHIP IN PRESCHOOL (ELR) 4-6 Credit Hours**

(Equivalent to ECET 22192) Internship in preschool settings, full day for fifteen weeks. Corequisites: ECED 30123 and ECED 30142 and ECED 30147 and ECED 40165

**Prerequisite:** ECED 30164; and admission to advanced study; and Official valid certification of Child Safety Training, approved Basic Life Support and ALICE Training must be presented to the campus office of clinical experience or designated faculty/staff at Regional campuses as prerequisite for student teaching.

**Schedule Type:** Practical Experience

**Contact Hours:** 20-30 other

**Grade Mode:** Satisfactory/Unsatisfactory

**Attributes:** Experiential Learning Requirement

**ECED 40196 INDIVIDUAL INVESTIGATION IN EARLY CHILDHOOD EDUCATION 1-5 Credit Hours**

(Repeatable for credit) Open to seniors in ECED. Intensive individual study on an early childhood topic selected by student and adviser.

**Prerequisite:** Admission to advanced study; and special approval.

**Schedule Type:** Individual Investigation

**Contact Hours:** 1-5 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**ECED 40203 CRITICAL INQUIRY: THE IB FRAMEWORK 3 Credit Hours**

(Slashed with ECED 50203) Theoretical and content background addressing integration of curriculum and global perspectives aligned with the International Baccalaureate Primary Years Program.

**Prerequisite:** Minimum C grade in the following courses ECED 20101, ECED 20102, ECED 20103, ECED 20104 and ECED 20192 (Block I); and admission to advanced study.

**Corequisite:** ECED 22222, ECED 30201 and ECED 30202 (Block II).

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ECED 40292 INTERNSHIP IN ELEMENTARY SCHOOLS (ELR) 4-9 Credit Hours**

(Repeatable for credit) Internship in grades K-5, full day for 15 weeks.

Students are required to complete Bureau of Criminal Investigation and Identification (BCII) and Federal Bureau of Investigation (FBI) background checks and submit the results to authorized personnel at their assigned school-agency before the first day of the semester in which student teaching internship will take place.

**Prerequisite:** ECED 40401, ECED 40402, ECED 40403, ECED 40404 and ECED 44444 (Block IV) all with a minimum C grade; official valid certification of Child Safety Training, approved Basic Life Support and ALICE Training must be presented to the campus office of clinical experience or designated faculty-staff at Regional campuses as prerequisite for student teaching; and admission to advanced study.

**Corequisite:** ECED 40125.

**Schedule Type:** Practical Experience

**Contact Hours:** 18-36 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**Attributes:** Experiential Learning Requirement

**ECED 40301 TEACHING SOCIAL STUDIES IN THE ELEMENTARY YEARS 3 Credit Hours**

Objectives, resources, curriculum development, and methods of teaching social studies K-fifth grade with an emphasis on developing integrated social studies curriculum and engaging professional collaboration with teachers in the field. Emphasis on non-dominant narratives will be considered. At least one field experience assignment will be integrated in this course.

**Prerequisite:** ECED 22222, ECED 30201, ECED 30202 and ECED 40203 (Block II) all with a minimum C grade; and ECED 20102 with a minimum of a C grade; and admission to advanced study.

**Corequisite:** ECED 40302, ECED 40303, ECED 40304 and ECED 43333 (Block III).

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ECED 40302 APPROPRIATE PHONICS INSTRUCTION AND WORD STUDY 3 Credit Hours**

(Slashed with ECED 50302) An examination of phonics in reading and writing development, effective strategies for teaching and assessing phonics appropriate for K-5 students.

**Prerequisite:** ECED 22222, ECED 30201, ECED 30202 and ECED 40203 (Block II) all with a minimum C grade; and admission to advanced study.

**Corequisite:** ECED 40301, ECED 40303, ECED 40304 and ECED 43333 (Block III).

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ECED 40303 TEACHING MATHEMATICS IN THE ELEMENTARY YEARS I 3 Credit Hours**

Instructional psychology and materials for effective teaching of mathematics in grades K-5 with a theoretical emphasis on cognitive development.

**Prerequisite:** ECED 22222, ECED 30201, ECED 30202 and ECED 40203 (Block II) all with a minimum C grade; and admission to advanced study.

**Corequisite:** ECED 40301, ECED 40302, ECED 40304 and ECED 43333 (Block III).

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ECED 40304 TEACHING SCIENCE IN THE ELEMENTARY YEARS 3 Credit Hours**

(Slashed with ECED 50304) This course investigates engaging students in inquiry-based science practices and big science ideas. Emphasis is given to creating developmentally appropriate experiences.

**Prerequisite:** ECED 22222, ECED 30201, ECED 30202 and ECED 40203 (Block II) all with a minimum C grade; and admission to advanced study.

**Corequisite:** ECED 40301, ECED 40302, ECED 40303 and ECED 43333 (Block III).

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ECED 40401 TEACHING SCIENCE AND SOCIAL STUDIES IN THE ELEMENTARY YEARS 3 Credit Hours**

This course focuses on the following aspects for grades 2-5: science and social studies content and practices; planning and teaching of science and social studies; and critical literacy and non-dominant narratives. There are field-based assignments in this course.

**Prerequisite:** ECED 40301, ECED 40302, ECED 40303, ECED 40304 and ECED 43333 (Block III) all with a minimum C grade; and admission to advanced study.

**Corequisite:** ECED 40402, ECED 40403, ECED 40404 and ECED 44444 (Block IV).

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ECED 40402 DEVELOPMENTAL READING AND WRITING IN THE ELEMENTARY YEARS 3 Credit Hours**

(Slashed with ECED 50402) This course explores how teachers support children's literacy development through small group strategic instruction based on formative assessments.

**Prerequisite:** ECED 40301, ECED 40302, ECED 40303, ECED 40304 and ECED 43333 (Block III); and admission to advanced study.

**Corequisite:** ECED 40401, ECED 40403, ECED 40404 and ECED 44444 (Block IV).

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ECED 40403 DEVELOPING A BALANCED LITERACY PROGRAM IN THE ELEMENTARY YEARS (WIC) 3 Credit Hours**

This course expands on the previous three literacy courses to explore how research-based instruction requires a balance of literacy learning formats; an integration with learning in the content areas and is based on assessment of individual children's writing abilities and how to design instruction to meet the needs of writers. The course specifically develops understandings about principles, practices, theories and research related to writing instruction. There are field-based assignments in this course.

**Prerequisite:** Minimum C grade in ECED 40301, ECED 40302, ECED 40303, ECED 40304 and ECED 43333 (Block III); and admission to advanced study.

**Corequisite:** ECED 40401, ECED 40402, ECED 40404 and ECED 44444 (Block IV).

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Writing Intensive Course

**ECED 40404 TEACHING MATHEMATICS IN THE ELEMENTARY YEARS II 3 Credit Hours**

Instructional psychology and materials for effective teaching of mathematics in grades K-5 with a theoretical emphasis on cognitive development. There are field-based assignments in this course.

**Prerequisite:** ECED 40301, ECED 40302, ECED 40303, ECED 40304 and ECED 43333 (Block III) all with a minimum C grade; and admission to advanced study.

**Corequisite:** ECED 40401, ECED 40402, ECED 40403 and ECED 44444 (Block IV).

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ECED 43333 FAMILY-SCHOOL-COMMUNITY PARTNERSHIPS IN DIVERSE SETTINGS 3 Credit Hours**

Approaches to parent and community involvement in the education and welfare of children are examined, applied, and discussed. Focuses are theories, policies, practices, skills, and knowledge of partnership building in educational settings. An emphasis on differentiation of practices for diverse communities is applied to teaching and learning in the elementary grades. This course has a field component attached to it. Students are required to complete Bureau of Criminal Investigation and Identification (BCII) and Federal Bureau of Investigation (FBI) background checks and submit the results to authorized personnel at their assigned school-agency before the first day of the semester in which field work will take place.

**Prerequisite:** ECED 22222, ECED 30201, ECED 30202 and ECED 40203 (Block II) all with a minimum C grade; and admission to advanced study.

**Corequisite:** ECED 40301, ECED 40302, ECED 40303 and ECED 40304 (Block III).

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ECED 44444 DEVELOPMENT AND PEDAGOGY IN UPPER ELEMENTARY SCHOOL 3 Credit Hours**

Growth and development of children in grades four and five; implications for the application to the intermediate classroom; developmentally-appropriate practices including differentiation; examination of classroom systems and whole-child learning including impacts of trauma and stress. There are field-based assignments in this course.

**Prerequisite:** ECED 40301, ECED 40302, ECED 40303, ECED 40304 and ECED 43333 (Block III) all with a minimum C grade; and admission to advanced study.

**Corequisite:** ECED 40401, ECED 40402, ECED 40403 and ECED 40404 (Block IV).

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ECED 50093 VARIABLE TITLE WORKSHOP IN EARLY CHILDHOOD EDUCATION 1-5 Credit Hours**

(Repeatable for credit) (Slashed with ECED 40093 and ECED 70093) Variable topic workshop in early childhood education.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Workshop

**Contact Hours:** 1-5 other

**Grade Mode:** Satisfactory/Unsatisfactory

**ECED 50105 APPROPRIATE PHONICS INSTRUCTION FOR KINDERGARTEN AND PRIMARY CHILDREN 3 Credit Hours**

An examination of phonics in early reading and writing development, effective strategies for teaching and assessing phonics appropriate for kindergarten and primary grade children.

**Prerequisite:** ECED 60167; and Early Childhood Education major; and graduate standing.

**Corequisite:** ECED 50147, ECED 50114 and ECED 50126.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ECED 50114 TEACHING SCIENCE IN THE EARLY YEARS 3 Credit Hours**

(Slashed with ECED 40114) This course investigates engaging young children in inquiry-based processes of science. Emphasis is given to creating developmentally appropriate experiences in accordance to NAEYC guidelines. National and state science standards as well as the college and graduate school of education conceptual framework. Attention is focused on the use of science materials safety planning assessment and incorporating science across the curriculum.

**Prerequisite:** Graduate standing in the Master of Arts in Teaching program.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ECED 50123 CRITICAL INQUIRY INTO INTEGRATED CURRICULUM IN THE PRIMARY YEARS 3 Credit Hours**

(Slashed with ECED 40123) Theoretical and content background addressing integration of curriculum and global perspectives aligned with the International Baccalaureate Primary Years Program.

**Prerequisite:** ECED 60113 and 60152; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ECED 50125 INQUIRY INTO PROFESSIONAL PRACTICE 3 Credit Hours**

(Slashed with ECED 40125) Interdisciplinary inquiry into teaching as a professional practice in early childhood education. Completion of edTPA portfolio. Corequisites: ECED 67292

**Prerequisite:** Admission to advanced study; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ECED 50126 DEVELOPMENTAL READING AND WRITING: THE EARLY YEARS 3 Credit Hours**

(Slashed with ECED 40126) This course explores how teachers support children's literacy development through small group strategic instruction based on formative assessments.

**Prerequisite:** Early Childhood Education major within the Master of Arts in Teaching degree.

**Corequisite:** ECED 50105.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ECED 50142 HOME, SCHOOL AND COMMUNITY RELATIONS 3 Credit Hours**

(Slashed with ECED 40142) Approaches to parent and community involvement in the education and welfare of children. Understanding of role of community agencies and organizations.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ECED 50145 MUSIC AND MOVEMENT IN PRE-PRIMARY EDUCATION 3 Credit Hours**

(Slashed with ECED 40145) Music and movement for pre-primary children. Course intended for majors in early childhood education or other persons desiring additional work with pre-primary children.

**Prerequisite:** Graduate standing; and special approval from instructor.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ECED 50147 TEACHING MATHEMATICS:EARLY YEARS 3 Credit Hours**

Instructional psychology and materials for effective teaching of mathematics in prekindergarten through grade three with a theoretical emphasis on cognitive development.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ECED 50153 ORGANIZATION AND SUPERVISION OF EARLY CHILDHOOD CENTERS 3 Credit Hours**

Basic guidelines for establishing and supervising early childhood settings for infants, preschool and school age children.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ECED 50203 CRITICAL INQUIRY: THE IB FRAMEWORK 3 Credit Hours**

(Slashed with ECED 40203) Theoretical and content background addressing integration of curriculum and global perspectives aligned with the International Baccalaureate Primary Years Program.

**Prerequisite:** ECED 60113 and ECED 60152; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ECED 50301 TEACHING SOCIAL STUDIES IN K-5 CLASSROOMS 3 Credit Hours**

Social Studies objectives, resources, curriculum development, and methods of teaching K-5 with an emphasis on developing integrated social studies curriculum and engaging professional collaborations with teachers in the field is emphasized. Narratives of diversity and difference with an emphasis upon social justice pedagogies are discussed and described. At least one field based experience assignment will be integrated into teaching and learning in this course.

**Prerequisite:** Graduate standing.

**Corequisite:** ECED 50304 and ECED 50402 and ECED 50403 and ECED 50404.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ECED 50302 APPROPRIATE PHONICS INSTRUCTION AND WORD STUDY 3 Credit Hours**

(Slashed with ECED 40302) An examination of phonics in reading and writing development, effective strategies for teaching and assessing phonics appropriate for K-5 students.

**Prerequisite:** ECED 60113; and Early Childhood Education major; and graduate standing.

**Corequisite:** ECED 50303 and ECED 60152 and ECED 60201.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ECED 50303 TEACHING MATHEMATICS IN THE ELEMENTARY YEARS I 3 Credit Hours**

Instructional psychology and materials for effective teaching of mathematics in grades K-5 with a theoretical emphasis on cognitive development.

**Prerequisite:** ECED 50102 and ECED 60113 and ECED 60151; and graduate standing.

**Corequisite:** ECED 50302 and ECED 60152 and ECED 60201 and ECED 63333.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ECED 50304 TEACHING SCIENCE IN THE ELEMENTARY YEARS 3 Credit Hours**

(Slashed with ECED 40304) This course investigates engaging students in inquiry-based science practices and big science ideas. Emphasis is given to creating developmentally appropriate experiences.

**Prerequisite:** Majors enrolled in a Master of Arts in Teaching degree; and graduate standing.

**Corequisite:** ECED 50301 and ECED 50402 and ECED 50403 and ECED 50404.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ECED 50402 DEVELOPMENTAL READING AND WRITING IN THE ELEMENTARY YEARS 3 Credit Hours**

(Slashed with ECED 40402) This course explores how teachers support children's literacy development through small group strategic instruction based on formative assessments.

**Prerequisite:** ECED 50302 and ECED 50303 and ECED 60201 and ECED 63333 all with a minimum C grade; and Early Childhood Education within the Master of Arts in Teaching degree; and graduate standing.

**Corequisite:** ECED 50301 and ECED 50304 and ECED 50403 and ECED 50404.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter



**ECED 50403 DEVELOPING A BALANCED LITERACY PROGRAM IN THE ELEMENTARY YEARS 3 Credit Hours**

This course expands on the previous three literacy courses to explore how research-based instruction requires a balance of literacy learning formats; an integration with learning in the content areas and is based on assessment of individual children's writing abilities and how to design instruction to meet the needs of writers. The course specifically develops understandings about principles, practices, theories and research related to writing instruction. There are field-based assignments in this course.

**Prerequisite:** ECED 50302 and ECED 50303 and ECED 60103 and ECED 60113 and ECED 60151 and ECED 60152 and ECED 60201; and graduate standing.

**Corequisite:** ECED 50301 and ECED 50304 and ECED 50402 and ECED 50404.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ECED 50404 TEACHING MATHEMATICS IN THE ELEMENTARY YEARS II 3 Credit Hours**

Instructional psychology and materials for effective teaching of mathematics in grades K-5 with a theoretical emphasis on cognitive development. There are field based assignments in this course.

**Prerequisite:** ECED 50303 and ECED 60152; and graduate standing.

**Corequisite:** ECED 50402 and ECED 50301 and ECED 50304 and ECED 50403.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ECED 54444 DEVELOPMENT AND PEDAGOGY IN UPPER ELEMENTARY SCHOOL 3 Credit Hours**

Growth and development of children in grades four and five; implications for the application to the intermediate classroom; developmentally-appropriate practices including differentiation; examination of classroom systems and whole-child learning including impacts of trauma and stress. There are field-based assignments in this course.

**Prerequisite:** Graduate standing.

**Pre/corequisite:** CI 67005.

**Corequisite:** ECED 50203 and ECED 60115.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ECED 60101 CONSTRUCTIVIST TEACHING IN TRADITIONAL AND NON-TRADITIONAL EARLY CHILDHOOD SETTINGS 3 Credit Hours**

Theorists and researchers with a constructivist orientation will be examined in relationship to teacher beliefs and diverse settings. The course will focus on constructivist practices emphasizing child sensitive curriculum within traditional (classrooms and schools) and non-traditional settings (museums, forests, etc.).

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ECED 60102 DEVELOPING A BALANCED LITERACY PROGRAM 3 Credit Hours**

An examination of own teaching practice focusing on assessment strategies to inform decision making for individual children and evaluation strategies to fine tune a balanced literacy program.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ECED 60103 SOCIAL STUDIES AND THE ARTS IN PRESCHOOL 3 Credit Hours**

Young children's development in the expressive arts and social studies; implications for development of the environment, integrated curriculum and teaching methods for preschool children. There are field-based assignments in this course.

**Prerequisite:** Graduate standing.

**Corequisite:** ECED 60113 and ECED 60151 and ECED 67292.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ECED 60110 TEACHING HUMANITIES: EARLY YEARS 3 Credit Hours**

Looking at Humanities through the lens of a young child's experience in learning with a focus on visual thinking and expression, music and movement.

**Prerequisite:** Admission to advanced study; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ECED 60112 HUMANITIES FOR CHILDREN 2 Credit Hours**

(Slashed with ECED 70112) Relevance of humanities as applied to education of young children.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**ECED 60113 PRESCHOOL EDUCATION 3 Credit Hours**

(Slashed with ECED 70113) In-depth study of curriculum development in preschool programs.

**Prerequisite:** Graduate standing.

**Corequisite:** ECED 60103 and ECED 60151 and ECED 67292.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ECED 60115 SCIENCE TECHNOLOGY ENGINEERING AND MATHEMATICS FOUNDATIONS FOR EARLY AND MIDDLE CHILDHOOD EDUCATION 3 Credit Hours**

(Cross-listed with MCED 60115) This course introduces early and middle childhood educators to STEM (Science, Technology, Engineering, Mathematics) for students in K-6 classrooms. This includes a foundation and overview of the what, how, and why STEM is included in K-6 classrooms. As a foundations course, students will gain exposure to integrating the STEM disciplines, assessment of mathematics and science in STEM, and aspects of developmentally appropriate STEM for early and middle childhood settings.

**Prerequisite:** ECED 50404, ECED 50304 and ECED 50303; and graduate standing.

**Corequisite:** ECED 50203.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ECED 60116 SCIENCE TECHNOLOGY ENGINEERING AND MATH INQUIRY FOR EARLY CHILDHOOD EDUCATION 3 Credit Hours**

This course builds on STEM Foundations for Early Childhood Education. Interdisciplinary teaching of STEM for young children is the main focus, with attention to specific pedagogical applications. Thus, inquiry as a pedagogic approach to STEM application is a central, concurrent feature of this course.

**Prerequisite:** ECED 60115; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ECED 60145 TEACHING SOCIAL STUDIES: EARLY YEARS 3 Credit Hours**

Involves the systematic study of the theories, methods, and materials necessary to successfully teach social studies to diverse populations of pre-Kindergarten and elementary school students growing up in a global society. The course will consider aspects of the history of social studies and theory and research in social education as a background for understanding methods and materials.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ECED 60151 SOCIOMORAL ENVIRONMENT IN EARLY CHILDHOOD EDUCATION 3 Credit Hours**

(Slashed with ECED 70151) Children's social and moral development will be explored in relationship to the context of primary classrooms. Children's social problem-solving, friendship making, guidance strategies and interventions, building and facilitating classroom communities and promoting caring classrooms will be the focus of this course.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ECED 60152 APPLICATION OF SELECTED THEORETICAL PRINCIPLES TO THE DEVELOPMENT OF YOUNG CHILDREN 3 Credit Hours**

(Slashed with ECED 70152) Examination of theories pertaining to child development which have special relevance in understanding and meeting developmental needs of young children. Application of selected theoretical principles to child development.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ECED 60156 FOUNDATIONS IN EARLY CHILDHOOD SERVICES 3 Credit Hours**

(Cross-listed with SPED 63956 and SPED 73956) Issues facing children within family/society; history of early childhood services; theoretical perspectives; implications of childhood disabilities; recommended assessment, intervention and evaluation.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ECED 60158 RECONCEPTUALIZING EARLY CHILDHOOD CURRICULUM 3 Credit Hours**

(Slashed with ECED 70158) Course examines postmodern understanding of early childhood education curricula in relationship to teaching (instruction-oriented teaching vs. pedagogy-based teaching). Social, historical, legal, political, international and cultural issues that have affected early childhood education curricula practices will be critically examined.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ECED 60159 FAMILY PROFESSIONAL COLLABORATION IN EARLY CHILDHOOD 3 Credit Hours**

(Cross-listed with SPED 63952) Examines issues facing families and professionals serving young children who are at risk, disabled and typically developing.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ECED 60160 TYPICAL AND ATYPICAL DEVELOPMENT IN YOUNG CHILDREN 3 Credit Hours**

(Cross-listed with SPED 63955) Overview of typical/atypical development pathways age three to grade three: theories of behavior, implications of atypical development on play/learning; development within ecological framework.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ECED 60163 CONTEMPORARY ISSUES AND TRENDS IN EARLY CHILDHOOD EDUCATION 3 Credit Hours**

(Slashed with ECED 70163) The course is an examination of contemporary issues with young children, families, school communities, and diverse populations detailing the philosophical, social, and political ramifications of the study of children highlighting current research, practices and policies. This course will examine a body of literature, (recent seminal works of impact in early childhood), which encompass a few of the pervasive dilemmas and debates shaping the early childhood field in the U.S. today (with a global international backdrop). International perspectives on issues will be liberally juxtaposed in conjunction with U.S. issues, and overall this course will address how educators have and can structure their practice with various communities to support young children, families, and society.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ECED 60167 LANGUAGE AND LITERACY:UNDERSTANDING DEVELOPMENT 3 Credit Hours**

(Slashed with ECED 70167) The development of language in children from birth through age eight with a focus on the process of typical language development and the diversity of multi-cultural language. Topics specifically related to classroom teaching include the assessment of language delays and disorders and strategies for connecting oral language to literacy in preschool.

**Prerequisite:** Graduate standing.

**Corequisite:** ECED 60152.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ECED 60169 UNDERSTANDING EMERGENT BILINGUAL AND IMMIGRANT STUDENTS AND THEIR FAMILIES 3 Credit Hours**

(Slashed with ECED 80169) This course is designed to help the general practitioner understand and know foundational concepts about multi-lingual students, immigrants, English Language Learners and their families.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ECED 60170 WRITING FOR PUBLICATION AND DISSEMINATION IN EARLY CHILDHOOD EDUCATION 3 Credit Hours**

The seminar examines publication possibilities within early childhood education. A wide range of writing (e.g., journals, book reviews, training modules-manuals) will be reviewed for topics concerning young children (i.e., education, development, families, care, schools, health, and-or their teachers-providers.) This seminar will rely greatly on student participation for determining topics in support of individual interests, research, teaching practices at the university level, curriculum practices in the early childhood classrooms and settings, and more.

**Prerequisite:** Graduate standing.

**Schedule Type:** Seminar

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ECED 60171 TEACHING EMERGENT BILINGUAL AND IMMIGRANTS IN THE EARLY YEARS 3 Credit Hours**

(Slashed with ECED 80171) General educators will explore the application of teaching methods and a variety of curriculum approaches for immigrant and bi-literate children, and apply more fully their work with families and communities.

**Prerequisite:** ECED 60169; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ECED 60199 THESIS I 2-6 Credit Hours**

Thesis students must register for a total of 6 hours, 2 to 6 hours in a single semester distributed over several semesters if desired.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Masters Thesis

**Contact Hours:** 2-6 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**ECED 60201 LANGUAGE AND LITERACIES 3 Credit Hours**

An examination of the process of languages and literacies development. This course focuses on teaching literacy to primary age students.

**Prerequisite:** Graduate standing.

**Corequisite:** ECED 50302 and ECED 50303 and ECED 60152 and ECED 63333.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ECED 60299 THESIS II 2 Credit Hours**

Thesis students must continue registration each semester until all degree requirements are met.

**Prerequisite:** ECED 60199; and graduate standing.

**Schedule Type:** Masters Thesis

**Contact Hours:** 2 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**ECED 63333 FAMILY-SCHOOL-COMMUNITY PARTNERSHIPS IN DIVERSE SETTINGS 3 Credit Hours**

Approaches to parent and community involvement in the education and welfare of children are examined, applied, and discussed. Focuses are theories, policies, practices, skills, and knowledge of partnership building in educational settings. An emphasis on differentiation of practices for diverse communities is applied to teaching and learning in the primary grades.

**Prerequisite:** Graduate standing.

**Corequisite:** ECED 50302, ECED 50303, ECED 60201 and ECED 60152.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ECED 67291 SEMINAR IN EARLY CHILDHOOD EDUCATION 1-4 Credit Hours**

(Repeatable for credit) (Slashed with ECED 77291) Seminar in early childhood education.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Seminar

**Contact Hours:** 1-4 other

**Grade Mode:** Standard Letter

**ECED 67292 PRACTICUM AND INTERNSHIP IN EARLY CHILDHOOD EDUCATION 1-10 Credit Hours**

(Repeatable for credit) (Slashed with ECED 77292) Practicum/internship in early childhood education. Students are required to complete Bureau of Criminal Investigation and Identification (BCII) and Federal Bureau of Investigation (FBI) background checks and submit the results to authorized personnel at their assigned school/agency before the first day of the semester in which student teaching/ internship will take place.

**Prerequisite:** Official valid certification of Child Safety Training, approved Basic Life Support and ALICE Training must be presented to the campus office of clinical experience or designated faculty/staff at Regional campuses as prerequisite for student teaching; and graduate standing.

**Schedule Type:** Practical Experience

**Contact Hours:** 3-30 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**ECED 67295 SPECIAL TOPICS IN EARLY CHILDHOOD EDUCATION 1-5 Credit Hours**

(Repeatable for credit) (Slashed with ECED 77295) Special topics in early childhood education.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 1-5 lecture

**Grade Mode:** Standard Letter

**ECED 67296 INDIVIDUAL INVESTIGATION IN EARLY CHILDHOOD EDUCATION 1-5 Credit Hours**

(Repeatable for credit) Individual investigation in early childhood education.

**Prerequisite:** Graduate standing; and permission.

**Schedule Type:** Individual Investigation

**Contact Hours:** 1-5 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**ECED 67298 RESEARCH IN EARLY CHILDHOOD EDUCATION 1-15 Credit Hours**

(Repeatable for credit) Research in early childhood education.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Research

**Contact Hours:** 1-15 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**ECED 70093 VARIABLE TITLE WORKSHOP IN EARLY CHILDHOOD EDUCATION 1-5 Credit Hours**

(Repeatable for credit) (Slashed with ECED 40093 and ECED 50093)

**Prerequisite:** Doctoral standing; and special approval.

**Schedule Type:** Workshop

**Contact Hours:** 1-5 other

**Grade Mode:** Satisfactory/Unsatisfactory

**ECED 70101 CONSTRUCTIVIST TEACHING IN EARLY CHILDHOOD CLASSROOMS 3 Credit Hours**

Theorists and researchers with a constructivist orientation will be examined in relationship to teacher beliefs. The course will focus on constructivist practices emphasizing child-sensitive curriculum and teaching practices.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ECED 70102 DEVELOPING A BALANCED LITERACY PROGRAM 3 Credit Hours**

An examination of own teaching practice focusing on assessment strategies to inform decision-making for individual children and evaluation strategies to fine tune a balanced literacy program.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ECED 70112 HUMANITIES FOR CHILDREN 2 Credit Hours**

(Slashed with ECED 60112) Relevance of humanities as applied to education of young children.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**ECED 70113 PRESCHOOL EDUCATION 3 Credit Hours**

(Slashed with ECED 60113) In-depth study of curriculum development in preschool programs.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ECED 70151 SOCIOMORAL ENVIRONMENT IN EARLY CHILDHOOD EDUCATION 3 Credit Hours**

(Slashed with ECED 60151) Children's social and moral development will be explored in relationship to the context of primary classrooms. Children's social problem-solving, friendship-making, guidance strategies and interventions, building and facilitating classroom communities and promoting caring classrooms will be the focus of this course.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ECED 70152 APPLICATION OF SELECTED THEORETICAL PRINCIPLES TO THE DEVELOPMENT OF YOUNG CHILDREN 3 Credit Hours**

(Slashed with ECED 60152) Examination of theories pertaining to child development which have special relevance in understanding and meeting developmental needs of young children. Application of selected theoretical principles to child development.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ECED 70158 RECONCEPTUALIZING EARLY CHILDHOOD CURRICULUM 3 Credit Hours**

(Slashed with ECED 60158) Course examines postmodern understanding of early childhood education curricula in relationship to teaching (instruction-oriented teaching vs. pedagogy-based teaching). Social, historical, legal, political, international and cultural issues that have affected early childhood education curricula practices will be critically examined.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ECED 70163 CONTEMPORARY ISSUES AND TRENDS IN EARLY CHILDHOOD EDUCATION 3 Credit Hours**

(Slashed with ECED 60163) The course is an examination of contemporary issues with young children, families, school communities, and diverse populations detailing the philosophical, social, and political ramifications of the study of children highlighting current research, practices and policies. This course will examine a body of literature (recent seminal works of impact in early childhood), which encompass a few of the pervasive dilemmas and debates shaping the early childhood field in the U.S. today (with a global international backdrop). International perspectives on issues will be liberally juxtaposed with U.S. issues, and overall this course will address how educators have and can structure their practice with various communities to support young children, families and society.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ECED 70167 LANGUAGE AND LITERACY:UNDERSTANDING DEVELOPMENT 3 Credit Hours**

(Slashed with ECED 60167) The development of language in children from birth through age eight with a focus on the process of typical language development and the diversity of multi-cultural language. Topics specifically related to classroom teaching include the assessment of language, delays and disorders and strategies for connecting oral language to literacy in preschool.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ECED 70170 WRITING FOR PUBLICATION AND DISSEMINATION IN EARLY CHILDHOOD EDUCATION 3 Credit Hours**

(Slashed with ECED 60170) The seminar examines publication possibilities within the field of early childhood education. A wide range of writing (e.g., journals, books reviews, training modules-manuals) will be reviewed for topics concerning young children (i.e., education, development, families, care, schools, health, and-or their teachers providers.) This seminar will rely a great deal on student participation for determining topics in support of individual interests, research, teaching practices at the university level, curriculum practices in the early childhood classrooms and settings and more.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Seminar

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ECED 77291 SEMINAR IN EARLY CHILDHOOD EDUCATION 1-4 Credit Hours**

(Repeatable for credit) (Slashed with ECED 67291) Seminar in ECED.

**Prerequisite:** Doctoral standing; and special approval.

**Schedule Type:** Seminar

**Contact Hours:** 1-4 other

**Grade Mode:** Standard Letter

**ECED 77292 PRACTICUM AND INTERNSHIP IN EARLY CHILDHOOD EDUCATION 1-10 Credit Hours**

(Repeatable for credit) (Slashed with ECED 67292) Practicum/ internship in ECED. Students are required to complete Bureau of Criminal Investigation and Identification (BCII) and Federal Bureau of Investigation (FBI) background checks and submit the results to authorized personnel at their assigned school/agency before the first day of the semester in which student teaching/ internship will take place.

**Prerequisite:** Doctoral standing; and special approval.

**Schedule Type:** Practical Experience

**Contact Hours:** 3-30 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**ECED 77295 SPECIAL TOPICS IN EARLY CHILDHOOD EDUCATION 1-5 Credit Hours**

(Repeatable for credit) (Slashed with ECED 67295) Special topics in ECED.

**Prerequisite:** Doctoral standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 1-5 lecture

**Grade Mode:** Standard Letter

**ECED 80169 UNDERSTANDING EMERGENT BILINGUAL AND IMMIGRANT STUDENTS AND THEIR FAMILIES 3 Credit Hours**

(Slashed with ECED 60169) This course is designed to help the general practitioner understand and know foundational concepts about multi-lingual students, immigrants, English Language Learners and their families.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ECED 80171 TEACHING EMERGENT BILINGUAL AND IMMIGRANTS IN THE EARLY YEARS 3 Credit Hours**

(Slashed with ECED 60171) General educators will explore the application of teaching methods and a variety of curriculum approaches for immigrant and bi-literate children, and apply more fully their work with families and communities.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ECED 80291 ADVANCED SEMINAR IN EARLY CHILDHOOD EDUCATION 1-4 Credit Hours**

(Repeatable for credit) Advanced seminar in ECED.

**Prerequisite:** Doctoral standing; and permission.

**Schedule Type:** Seminar

**Contact Hours:** 1-4 other

**Grade Mode:** Standard Letter

**ECED 80295 SPECIAL TOPICS IN EARLY CHILDHOOD EDUCATION 1-5 Credit Hours**

(Repeatable for credit) Special topics in ECED.

**Prerequisite:** Doctoral standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 1-5 lecture

**Grade Mode:** Standard Letter

**ECED 80298 RESEARCH IN EARLY CHILDHOOD EDUCATION 1-15 Credit Hours**

(Repeatable for credit) Research in ECED.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Research

**Contact Hours:** 1-15 other

**Grade Mode:** Standard Letter

**Educational Technology (ETEC)****ETEC 39525 EDUCATIONAL TECHNOLOGY 3 Credit Hours**

Develops knowledge and skills in designing, implementing, and assessing learning experiences, using various digital tools and resources to support teaching, learning, and research.

**Prerequisite:** CULT 29535.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter



**ETEC 40093 VARIABLE TITLE WORKSHOP IN EDUCATIONAL TECHNOLOGY 1-4 Credit Hours**

(Repeatable for credit) (Slashed with ETEC 50093) Variable topic workshop designed to respond to emerging or specialized needs in educational technology.

**Prerequisite:** None.

**Schedule Type:** Workshop

**Contact Hours:** 1-4 other

**Grade Mode:** Satisfactory/Unsatisfactory

**ETEC 47400 TRENDS IN EDUCATIONAL TECHNOLOGY 3 Credit Hours**

(Slashed with ETEC 57400) Overview of current technologies as they are used in education. Teaches principles and techniques for selecting and using technology for instruction. Focuses on digital technologies that can be used to increase the effectiveness of education.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ETEC 47403 INSTRUCTIONAL DESIGN 3 Credit Hours**

(Slashed with ETEC 57403) Enables students to design and develop instructional systems and materials using a systematic and research- and theory-based instructional design model.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ETEC 47427 TECHNOLOGY AND LEARNING 3 Credit Hours**

(Slashed with ETEC 57427) The effective use of technology for teaching and learning depends on understanding how researchers have created, integrated, and adapted technology integration and adoption models. This course presents an overview of key theories and concepts that have transformed our understanding of educational technology. It relies on a knowledge of the psychological principles of learning. Students without such knowledge should consider taking EPSY 29525 Educational Psychology first.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ETEC 47495 SPECIAL TOPICS: EDUCATIONAL TECHNOLOGY 1-4 Credit Hours**

(Repeatable for credit) Specialized offering in response to emerging or selected program needs in educational technology.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 1-4 lecture

**Grade Mode:** Standard Letter

**ETEC 47496 INDIVIDUAL INVESTIGATION IN EDUCATIONAL TECHNOLOGY 1-3 Credit Hours**

(Repeatable for credit) Directed independent reading and/or research of special interest or need in student's program. Planned with and directed by a faculty member.

**Prerequisite:** Special approval.

**Schedule Type:** Individual Investigation

**Contact Hours:** 3-9 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**ETEC 50093 VARIABLE TITLE WORKSHOP IN EDUCATIONAL TECHNOLOGY 1-4 Credit Hours**

(Repeatable for credit) (Slashed with ETEC 40093) Variable topic workshop designed to respond to emerging or specialized needs in educational technology.

**Prerequisite:** Graduate standing.

**Schedule Type:** Workshop

**Contact Hours:** 1-4 other

**Grade Mode:** Satisfactory/Unsatisfactory

**ETEC 57400 TRENDS IN EDUCATIONAL TECHNOLOGY 3 Credit Hours**

(Slashed with ETEC 47400) Overview of current technologies as they are used in education. Teaches principles and techniques for selecting and using technology for instruction. Focuses on digital technologies that can be used to increase the effectiveness of education.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ETEC 57403 INSTRUCTIONAL DESIGN 3 Credit Hours**

(Slashed with ETEC 47403) Enables students to design and develop instructional systems and materials using a systematic and research- and theory-based instructional design model.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ETEC 57427 TECHNOLOGY AND LEARNING 3 Credit Hours**

(Slashed with ETEC 47427) The effective use of technology for teaching and learning depends on understanding how researchers have created, integrated, and adapted technology integration and adoption models. This course presents an overview of key theories and concepts that have historically transformed our understanding of educational technology. It relies on a knowledge of the psychological principles of learning. Students without such knowledge should consider taking EPSY 65524 Learning Theories, first.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ETEC 60199 THESIS I 2-6 Credit Hours**

(Repeatable for credit) Students electing to complete a thesis to fulfill the requirements for the Master of Education degree must register for at least one semester of Thesis I.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Masters Thesis

**Contact Hours:** 6-18 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**ETEC 60299 THESIS II 2 Credit Hours**

(Repeatable for credit) When 6 credits of Thesis I have been complete, students electing to complete a thesis to fulfill the requirements for the Master of Education degree must continue to register each semester for Thesis II until all degree requirements have been completed.

**Prerequisite:** Graduate standing.

**Schedule Type:** Masters Thesis

**Contact Hours:** 6 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**ETEC 67402 MANAGING SCHOOL TECHNOLOGY CENTERS AND PROGRAMS 3 Credit Hours**

(Slashed with ETEC 77402) Provides skills in planning, organizing, administering and evaluating school-based technology and media centers.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ETEC 67410 SIMULATIONS AND GAMES IN EDUCATION 3 Credit Hours**

(Slashed with ETEC 77410) Introduction to digital simulations and games as educational tools. Students develop proficiency in applying these tools to learning. Surveys research and design principles and introduces game editors for developing simulations and games.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ETEC 67411 DESIGNING VISUALS FOR EDUCATION 3 Credit Hours**

(Slashed with ETEC 77411) Investigates research in perception and cognition and its influence on principles and best practices in educational visual design. Focuses on the design of educational visuals and media in print, video, and computer-based technology.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ETEC 67420 RESEARCH ISSUES IN EDUCATIONAL TECHNOLOGY 3 Credit Hours**

(Slashed with ETEC 77420) Reviews the foundations of the field of Educational Technology as well as the basic theories that underlie its practice. Teaches masters students to read and make use of research in the field and doctoral students to critique research and develop meaningful research questions in the field.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ETEC 67425 MANAGING TECHNOLOGICAL CHANGE 3 Credit Hours**

(Slashed with ETEC 77425) Analyzing organizations and situations to determine the needs for and obstacles to technological change. Development of strategies for technological change. Identifying goals for change projects and basic project management techniques for implementing them.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ETEC 67426 MANAGING SCHOOL TECHNOLOGIES 3 Credit Hours**

(Slashed with ETEC 77426) Specifically for students interested in working in school settings managing computer labs and school servers and networks. Covers managing aspects of computer hardware, software and updates, and networks.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ETEC 67432 DESIGNING MULTIMEDIA FOR EDUCATION 3 Credit Hours**

(Slashed with ETEC 77432) Application of evidence-based instructional methods to the design, development, and evaluation of multimedia learning materials. Research-based guidelines for multimedia learning that influence learning outcomes. Uses various tools to design and develop multimedia projects.

**Prerequisite:** ETEC 57403; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ETEC 67434 EMERGING TECHNOLOGIES FOR EDUCATION 3 Credit Hours**

(Slashed with ETEC 77434) Focuses on the theoretical foundations, design, and development of educational delivery systems employing leading-edge and emergent technologies. Includes presentations and activities that employ the technologies.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ETEC 67435 VIRTUAL AND AUGMENTED REALITY 3 Credit Hours**

(Slashed with ETEC 77435) Virtual augmented reality can help provide engaging educational experiences. This course enables students to understand best practices and core guidelines in these technologies. Design principles and software for developing environments are included.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ETEC 67442 DESIGNING ONLINE AND BLENDED COURSES 3 Credit Hours**

(Slashed with ETEC 77442) Online and blended courses present new challenges in designing instructional experiences for students. Students will analyze course goals and contexts, design and develop effective online educational materials, interactions and discourses, and plan the evaluation of online courses.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ETEC 67444 TEACHING ONLINE AND BLENDED COURSES 3 Credit Hours**

(Slashed with ETEC 77444) Course explores using pedagogical approaches appropriate to online learning, including facilitating synchronous and asynchronous discussions, facilitating embedded assessment, enhancing online interactivity, collaboration and community and incorporating self-directed learning. Students discuss, analyze and use these strategies in online teaching and learning.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ETEC 67445 DESIGNING INSTRUCTIONAL AND PERFORMANCE SOLUTIONS 3 Credit Hours**

(Slashed with ETEC 77445) Develop knowledge of the systematic approach to instructional design, the contexts of application of this approach, and the roles of professionals in this field in adapting and applying the process in a flexible and innovative manner, especially to large-scale projects.

**Prerequisite:** ETEC 57403; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ETEC 67449 RESEARCH IN ONLINE AND BLENDED LEARNING 3 Credit Hours**

(Slashed with ETEC 77449) Course reviews current research issues in online teaching and learning and explores potential new areas of research. Students engage in guided inquiry to identify, understand, apply, and critique current research. Students participate in a constructive online learning environment.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ETEC 67491 SEMINAR: EDUCATIONAL TECHNOLOGY 1-4 Credit Hours**

(Repeatable for credit) (Slashed with ETEC 77491) Variable topic seminar for advanced study of specialized areas and topics. Normally designed around research and theory applied to practice.

**Prerequisite:** Graduate standing.

**Schedule Type:** Seminar

**Contact Hours:** 1-4 other

**Grade Mode:** Standard Letter

**ETEC 67492 PRACTICUM AND PORTFOLIO 3 Credit Hours**

Apply knowledge and skills related to the design, development, implementation, management, and evaluation of educational technologies through practical field experience in a school setting or an environment where educational technology services and programs are being used. Create a standards-based online portfolio to demonstrate professional competence and growth.

**Prerequisite:** Graduate standing.

**Schedule Type:** Practical Experience

**Contact Hours:** 10 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**ETEC 67495 SPECIAL TOPICS IN EDUCATIONAL TECHNOLOGY 1-4 Credit Hours**

(Repeatable for credit) Specialized offering in response to emerging or selected program needs in educational technology.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 1-4 lecture

**Grade Mode:** Standard Letter

**ETEC 67496 INDIVIDUAL INVESTIGATION IN EDUCATIONAL TECHNOLOGY 1-3 Credit Hours**

(Repeatable for credit) (Slashed with ETEC 77496) Directed independent reading and/or research of special interest or need in student's program. Planned with and directed by a graduate faculty member.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Individual Investigation

**Contact Hours:** 3-9 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**ETEC 67498 INDEPENDENT RESEARCH IN EDUCATIONAL TECHNOLOGY 1-5 Credit Hours**

(Repeatable for credit) (Slashed with ETEC 77498) Students pursue an individualized research project on a specialized topic with approval and under direction of instructor.

**Prerequisite:** Graduate standing.

**Schedule Type:** Research

**Contact Hours:** 3-15 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**ETEC 77402 MANAGING SCHOOL TECHNOLOGY CENTERS AND PROGRAMS 3 Credit Hours**

(Slashed with ETEC 67402) Provides skills in planning, organizing, administering and evaluating school-based technology and media centers.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ETEC 77410 SIMULATIONS AND GAMES IN EDUCATION 3 Credit Hours**

Introduction to digital simulations and games as educational tools. Students develop proficiency in applying these tools to learning. Surveys research and design principles and introduces game editors for developing simulations and games.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ETEC 77411 DESIGNING VISUALS FOR EDUCATION 3 Credit Hours**

(Slashed with ETEC 67411) Investigates research in perception and cognition and its influence on principles and best practices in educational visual design. Focuses on the design of educational visuals and media in print, video, and computer-based technology.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ETEC 77420 RESEARCH ISSUES IN EDUCATIONAL TECHNOLOGY 3 Credit Hours**

Reviews the foundations of the field of Educational Technology as well as the basic theories that underlie its practice. Teaches masters students to read and make use of research in the field and doctoral students to critique research and develop meaningful research questions in the field.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ETEC 77425 MANAGING TECHNOLOGICAL CHANGE 3 Credit Hours**

(Slashed with ETEC 67425) Analyzing organizations and situations to determine the needs for and obstacles to technological change. Development of strategies for technological change. Identifying goals for change projects and basic project management techniques for implementing them.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**EETC 77426 MANAGING SCHOOL TECHNOLOGIES 3 Credit Hours**  
(Slashed with EETC 67426) Specifically for students interested in working in school settings managing computer labs and school servers and networks. Covers managing aspects of computer hardware, software and updates, and networks.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**EETC 77432 DESIGNING MULTIMEDIA FOR EDUCATION 3 Credit Hours**

(Slashed with EETC 67432) Application of evidence-based instructional methods to the design, development, and evaluation of multimedia learning materials. Research-based guidelines for multimedia learning that influence learning outcomes. Uses various tools to design and develop multimedia projects.

**Prerequisite:** EETC 57403; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**EETC 77434 EMERGING TECHNOLOGIES FOR EDUCATION 3 Credit Hours**

(Slashed with EETC 67434) Focuses on the theoretical foundations, design, and development of educational delivery systems employing leading-edge and emergent technologies. Includes presentations and activities that employ the technologies.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**EETC 77435 VIRTUAL AND AUGMENTED REALITY 3 Credit Hours**

(Slashed with EETC 67435) Virtual augmented reality can help provide engaging educational experiences. This course enables students to understand best practices and core guidelines in these technologies. Design principles and software for developing environments are included.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**EETC 77442 DESIGNING ONLINE AND BLENDED COURSES 3 Credit Hours**

(Slashed with EETC 67442) Online and blended courses present new challenges in designing instructional experiences for students. Students will analyze course goals and contexts, design and develop effective online educational materials, interactions and discourses, and plan the evaluation of online courses.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**EETC 77444 TEACHING ONLINE AND BLENDED COURSES 3 Credit Hours**

(Slashed with EETC 67444) Course explores using pedagogical approaches appropriate to online learning, including facilitating synchronous and asynchronous discussions, facilitating embedded assessment, enhancing online interactivity, collaboration and community and incorporating self-directed learning. Students discuss, analyze and use these strategies in online teaching and learning.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**EETC 77445 DESIGNING INSTRUCTIONAL AND PERFORMANCE SOLUTIONS 3 Credit Hours**

(Slashed with EETC 67445) Develop knowledge of the systematic approach to instructional design, the contexts of application of this approach, and the roles of professionals in this field in adapting and applying the process in a flexible and innovative manner, especially to large-scale projects.

**Prerequisite:** EETC 57403; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**EETC 77449 RESEARCH IN ONLINE AND BLENDED LEARNING 3 Credit Hours**

(Slashed with EETC 67449) Course reviews current research issues in online teaching and learning and explores potential new areas of research. Students engage in guided inquiry to identify, understand, apply, and critique current research. Students participate in a constructive online learning environment.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**EETC 77491 SEMINAR: EDUCATIONAL TECHNOLOGY 1-4 Credit Hours**

(Repeatable for credit) (Slashed with EETC 67491) Variable topic seminar for advanced study of specialized areas and topics. Normally designed around research and theory applied to practice.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Seminar

**Contact Hours:** 1-4 other

**Grade Mode:** Standard Letter

**EETC 77492 ADVANCED PRACTICUM AND INTERNSHIP IN EDUCATIONAL TECHNOLOGY 1-10 Credit Hours**

Supervised program requiring application of theory to practice in the use of instructional technology directed by a graduate faculty member and a practitioner in the field. Students are required to complete Bureau of Criminal Investigation and Identification (BCII) and Federal Bureau of Investigation (FBI) background checks and submit the results to authorized personnel at their assigned school-agency before the first day of the semester in which internship will take place.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Practical Experience

**Contact Hours:** 3-33 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**ETEC 77495 SPECIAL TOPICS IN EDUCATIONAL TECHNOLOGY 1-4 Credit Hours**

(Slashed with ETEC 67495) Specialized offering in response to emerging or selected program needs in educational technology.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 1-4 lecture

**Grade Mode:** Standard Letter

**ETEC 77496 INDIVIDUAL INVESTIGATION IN EDUCATIONAL TECHNOLOGY 1-3 Credit Hours**

(Repeatable for credit) (Slashed with ETEC 67496) Directed independent reading and/or research of special interest or need in student's program. Planned with and directed by a graduate faculty member.

**Prerequisite:** Doctoral standing; and special approval.

**Schedule Type:** Individual Investigation

**Contact Hours:** 3-9 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**ETEC 77498 INDEPENDENT RESEARCH IN EDUCATIONAL TECHNOLOGY 1-5 Credit Hours**

(Repeatable for credit) (Slashed with ETEC 67498) Students pursue an individualized research project on a specialized topic with approval and under direction of instructor.

**Prerequisite:** Doctoral standing; and special approval.

**Schedule Type:** Research

**Contact Hours:** 3-15 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**ETEC 87450 LEARNING WITH EDUCATIONAL TECHNOLOGIES 3 Credit Hours**

Provides an overall introduction to research and practice in educational technology at the doctoral level. Includes examination of principles and examples of the effective application of technology to educational settings as well as approaches to research in the field.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Middle Childhood Education (MCED)****MCED 20000 LEARNING AND EXPERIENCE IN MIDDLE CHILDHOOD EDUCATION 3 Credit Hours**

This course introduces Middle Childhood Education (MCED) teacher candidates to the cultural, community, social, emotional, cognitive, physical and moral development of early adolescents. It offers MCED candidates the opportunity to immerse themselves in a grades 4-9 clinical experience while exploring the experiences of early adolescence.

**Prerequisite:** CULT 29535.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter-IP

**MCED 30001 TEACHING MATHEMATICS IN MIDDLE CHILDHOOD I 3 Credit Hours**

Examine issues and trends in mathematics and mathematics education. Theories of the teaching and learning of mathematics will be addressed within the context of problem solving, communications, reasoning and connections with other disciplines.

**Prerequisite:** EPSY 29525; and MATH 14001 and MATH 14002; and admission to advanced study.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MCED 30002 INTEGRATED SOCIAL STUDIES AND SCIENCE IN MIDDLE CHILDHOOD 3 Credit Hours**

Introductory methods course integrating social studies and science.

Emphasis on principles of teaching and learning as applied to teaching to social issues and problems appropriate for middle childhood students.

**Prerequisite:** Admission to advanced study.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MCED 31000 TEACHING AND LEARNING IN MIDDLE CHILDHOOD 3 Credit Hours**

This course emphasizes theories of learning and teaching and their application to teaching in middle childhood classrooms with a diversity of learners. Major class topics include lesson planning, teaching strategies, assessment, classroom management, and effective classroom instructions. In a concurrent clinical field experience, teacher candidates will apply teaching methods in intermediate-middle school classrooms.

Students are required to complete Bureau of Criminal Investigation and Identification (BCII) and Federal Bureau of Investigation (FBI) background checks and submit the results to authorized personnel at their assigned school before the first day of the semester in which student teaching internship will take place.

**Prerequisite:** Admission to advanced study; and middle childhood education major.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter-IP

**MCED 40000 TEACHING AND LEARNING IN MIDDLE CHILDHOOD 2 Credit Hours**

This course is the third of the four required seminars in middle childhood. Emphasis on theories of learning and classroom management and their application to teaching in classrooms with diverse learners.

**Prerequisite:** HDFS 24013; and admission to advanced study.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**MCED 40001 TEACHING MATHEMATICS IN MIDDLE CHILDHOOD II 3 Credit Hours**

To develop knowledge of the theories, materials and methods used to teach mathematics in the contemporary classroom for grades 4-9 and develop skill in their use.

**Prerequisite:** MCED 30001; and admission to advanced study.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MCED 40002 TEACHING SCIENCE IN THE MIDDLE CHILDHOOD II 3 Credit Hours**

This course is designed to provide pre-service teachers with meaningful and practical learning experiences that will prepare them to create effective science learning environments for grade 4-9 students. This course includes 40 field clinical hours. Students are required to complete Bureau of Criminal Investigation and Identification (BCII) and Federal Bureau of Investigation (FBI) background checks and submit the results to authorized personnel at their assigned school-agency before the first day of the semester in which clinical hours will take place.

**Prerequisite:** MCED 30002; and admission to advanced study.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter



**MCED 40003 TEACHING SOCIAL STUDIES IN MIDDLE CHILDHOOD II**  
**3 Credit Hours**

Advanced methods course. Examines the purpose of citizenship education and understanding the role of history and the social sciences. Applying the principles of powerful teaching. Includes a major field experience at the student teaching site. Students are required to complete Bureau of Criminal Investigation and Identification (BCII) and Federal Bureau of Investigation (FBI) background checks and submit the results to authorized personnel at their assigned school/agency before the first day of the semester in which student teaching/ internship will take place.

**Prerequisite:** MCED 30002; and admission to advanced study.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MCED 40005 EFFECTIVE USE OF PHONICS IN READING** **3 Credit Hours**

The influence of theoretical perspectives on word identification instruction, an examination of the role of phonics in reading and writing strategies for effective phonics instruction and assessment.

**Prerequisite:** Admission to advanced study.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MCED 40006 READING AND WRITING IN MIDDLE CHILDHOOD (WIC)**  
**6 Credit Hours**

Understanding of literacy learning in the middle childhood (classrooms grades 4-9) with emphasis on the development of reading and writing processes, strategies for text learning, literacy in electronic environments, authentic assessment and teaching children who struggle as readers.

**Prerequisite:** Admission to advanced study.

**Schedule Type:** Lecture

**Contact Hours:** 6 lecture

**Grade Mode:** Standard Letter

**Attributes:** Writing Intensive Course

**MCED 40007 TEACHING READING WITH LITERATURE IN MIDDLE CHILDHOOD** **3 Credit Hours**

The study of the teaching of reading with literature with middle childhood students within an integrated language arts approach in a comprehensive literature program.

**Prerequisite:** MCED 40006; and admission to advanced study.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MCED 40045 TEACHING MATHEMATICS IN THE INTERMEDIATE YEARS, GRADES 4-5** **3 Credit Hours**

To develop knowledge of the theories, materials and methods used to teach mathematics in the contemporary classroom for grades 4-5 and develop skill in their use.

**Prerequisite:** ECED 40147 with a minimum grade of C.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MCED 41000 CURRICULUM AND ORGANIZATION IN MIDDLE CHILDHOOD** **3 Credit Hours**

This course is designed to enhance knowledge, skills, and dispositions about curriculum history and organization of middle level schools (grades 4-9) that is developmentally responsive to early adolescents, and promotes student achievement and equity. Additionally, this course is also designed to extend knowledge, skills, techniques, and professional dispositions as related to middle school students' experiences, and differentiate curriculum and assessment for diverse learners. Students are required to complete Bureau of Criminal Investigation and Identification (BCII) and Federal Bureau of Investigation (FBI) background checks and submit the results to authorized personnel at their assigned school before the first day of the semester in which student teaching internship will take place.

**Prerequisite:** Admission to advanced study; and MCED 31000; and middle childhood education major.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter-IP

**MCED 42392 STUDENT TEACHING IN MIDDLE CHILDHOOD (ELR)** **9 Credit Hours**

(Slashed with MCED 52392) Full-time student teaching for sixteen weeks in two selected concentrations (mathematics, science, language arts, social studies) and reading in grades 4-5 or grades 6-7-8. Students are required to complete Bureau of Criminal Investigation and Identification (BCII) and Federal Bureau of Investigation (FBI) background checks and submit the results to authorized personnel at their assigned school-agency before the first day of the semester in which student teaching internship will take place.

**Prerequisite:** Admission to advanced study; and Official valid certification of Child Safety Training, approved Basic Life Support and ALICE Training must be presented to the campus office of clinical experience or designated faculty/staff at Regional campuses as prerequisite for student teaching; and MCED 41000 and MCED 40007.

**Corequisite:** MCED 49525.

**Schedule Type:** Practical Experience

**Contact Hours:** 27 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**Attributes:** Experiential Learning Requirement

**MCED 46645 CRITICAL INQUIRY AND INTEGRATION: SCIENCE AND SOCIAL STUDIES, GRADE 4** **3 Credit Hours**

Introduces students to fourth grade content using an interdisciplinary, inquiry approach to teaching and learning in science and social studies.

**Prerequisite:** Special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MCED 47745 CRITICAL INQUIRY AND INTEGRATION: SCIENCE AND SOCIAL STUDIES, GRADE 5** **3 Credit Hours**

Engages students in the use and development of pedagogical content knowledge for teaching grade 5 using an interdisciplinary, inquiry approach to teaching and learning in science and social studies.

**Prerequisite:** Special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MCED 49525 INQUIRY INTO PROFESSIONAL PRACTICE:MIDDLE CHILDHOOD 3 Credit Hours**

A seminar linked to student teaching with an emphasis on action research as professional development; completion of professional portfolios; professional ethics; and legal, medical and ethical issues in teaching.

**Prerequisite:** MCED 41000 and MCED 40007.

**Corequisite:** MCED 42392.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MCED 50002 TEACHING SCIENCE IN MIDDLE CHILDHOOD II 3 Credit Hours**

(Slashed with MCED 40002) This course is designed to provide pre-service teachers with meaningful and practical learning experiences that will prepare them to create effective science learning environments for grade 4-9 students. This course includes 40 field clinical hours. Students are required to complete Bureau of Criminal Investigation and Identification (BCII) and Federal Bureau of Investigation (FBI) background checks and submit the results to authorized personnel at their assigned school-agency before the first day of the semester in which clinical hours will take place.

**Prerequisite:** MCED 30002; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MCED 50003 TEACHING SOCIAL STUDIES IN MIDDLE CHILDHOOD II 3 Credit Hours**

Advanced methods course. Examines the purpose of citizenship education and understanding the role of history and the social sciences. Applying the principles of powerful teaching. Includes a major field experience at the student teaching site. Students are required to complete Bureau of Criminal Investigation and Identification (BCII) and Federal Bureau of Investigation (FBI) background checks and submit the results to authorized personnel at their assigned school/agency before the first day of the semester in which student teaching/internship will take place.

**Prerequisite:** MCED 30002; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MCED 50005 EFFECTIVE USE OF PHONICS IN READING 3 Credit Hours**

The influence of theoretical perspectives on word identification instruction, an examination of the role of phonics in reading and writing, strategies for effective phonics instruction and assessment.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MCED 50006 READING AND WRITING IN MIDDLE CHILDHOOD 6 Credit Hours**

Understanding of literacy learning in the middle childhood (classrooms grades 4-9) with emphasis on the development of reading and writing processes, strategies for text learning, literacy in electronic environments, authentic assessment and teaching children who struggle as readers.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 6 lecture

**Grade Mode:** Standard Letter

**MCED 50007 TEACHING READING WITH LITERATURE IN MIDDLE CHILDHOOD 3 Credit Hours**

The study of the teaching of reading with literature with middle childhood students within an integrated language arts approach in a comprehensive literature program.

**Prerequisite:** MCED 50006; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MCED 50045 TEACHING MATHEMATICS IN THE INTERMEDIATE YEARS, GRADES 4-5 3 Credit Hours**

To develop knowledge of the theories, materials and methods used to teach mathematics in the contemporary classroom for grades 4-5 and develop skill in their use.

**Prerequisite:** ECED 40147 with a minimum C grade; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MCED 52392 STUDENT TEACHING IN MIDDLE CHILDHOOD 9 Credit Hours**

Full-time student teaching for sixteen weeks on an interdisciplinary team in two selected concentrations (mathematics, language arts, social studies, science) and reading in grades 4-9. Students are required to complete Bureau of Criminal Investigation and Identification (BCII) and Federal Bureau of Investigation (FBI) background checks and submit the results to authorized personnel at their assigned school-agency before the first day of the semester in which student teaching internship will take place.

**Prerequisite:** Official valid certification of child safety training, approved basic life support and ALICE training must be presented to the campus office of clinical experience or designated faculty-staff at Regional campuses as prerequisite for student teaching; and graduate standing.

**Corequisite:** MCED 59525.

**Schedule Type:** Practical Experience

**Contact Hours:** 27 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**MCED 56645 CRITICAL INQUIRY AND INTEGRATION: SCIENCE AND SOCIAL STUDIES, GRADE 4 3 Credit Hours**

Introduces students to fourth grade content using an interdisciplinary, inquiry approach to teaching and learning in science and social studies.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MCED 57745 CRITICAL INQUIRY AND INTEGRATION: SCIENCE AND SOCIAL STUDIES, GRADE 5 3 Credit Hours**

Engages students in the use and development of pedagogical content knowledge for teaching grade 5 using an interdisciplinary, inquiry approach to teaching and learning in science and social studies.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MCED 59525 INQUIRY INTO PROFESSIONAL PRACTICE MIDDLE CHILDHOOD 3 Credit Hours**

A seminar linked to student teaching with an emphasis on action research as professional development, completion of professional portfolios, professional ethics and legal, medical and ethical issues in teaching.

**Prerequisite:** CI 67107 and MCED 50007 with a minimum C grade; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MCED 60115 SCIENCE TECHNOLOGY ENGINEERING AND MATH FOUNDATIONS FOR EARLY AND MIDDLE CHILDHOOD EDUCATION 3 Credit Hours**

(Cross-listed with ECED 60115) This course introduces early and middle childhood educators to STEM (Science, Technology, Engineering, Mathematics) for students in K-6 classrooms. This includes a foundation and overview of the what, how, and why STEM is included in K-6 classrooms. As a foundation course, students will gain exposure to integrating the STEM disciplines, assessment of mathematics and science in STEM, and aspects of developmentally appropriate STEM for early and middle childhood settings.

**Prerequisite:** ECED 50404 and ECED 50304 and ECED 50303; and graduate standing.

**Pre/corequisite:** ECED 50203.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Physical Activity, Wellness and Sport (PWS)****PWS 10020 DEVELOPMENT AND CONDITIONING 1 Credit Hour**

Introduction to the principles of physical training. Practical application of these principles through a variety of activities.

**Prerequisite:** None.

**Schedule Type:** Laboratory

**Contact Hours:** 2 lab

**Grade Mode:** Standard Letter

**PWS 10035 LIFETIME FITNESS 2 Credit Hours**

The role of exercise in enhancing physical fitness. Lectures on principles of planning scientifically sound exercise programs. Laboratory experiences in personal fitness evaluation and exercise routines.

**Prerequisite:** None.

**Schedule Type:** Laboratory, Lecture, Combined Lecture and Lab

**Contact Hours:** 1 lecture, 2 lab

**Grade Mode:** Standard Letter

**PWS 10036 FITNESS WALKING 1 Credit Hour**

Introduction to Fitness Walking as a lifetime physical activity through personal cardiovascular fitness.

**Prerequisite:** None.

**Schedule Type:** Laboratory

**Contact Hours:** 2 lab

**Grade Mode:** Standard Letter

**PWS 10095 SELECTED TOPICS: PHYSICAL EDUCATION ACTIVITIES 1-2 Credit Hours**

(Repeatable for credit) Selected and varied topics of relevance in physical education basic instruction.

**Prerequisite:** None.

**Schedule Type:** Laboratory

**Contact Hours:** 2-4 lab

**Grade Mode:** Standard Letter

**PWS 10101 SCUBA DIVING 1 Credit Hour**

Designed to make students a comfortable and qualified diver, capable of conducting recreational dives to shallow depths and deep water diving. Could lead to certification as a PADI open water diver.

**Prerequisite:** None.

**Schedule Type:** Laboratory

**Contact Hours:** 2 lab

**Grade Mode:** Standard Letter

**PWS 10125 BASKETBALL 1 Credit Hour**

The course is designed to give students a basic understanding of how to play the game of basketball through active participation. Students are expected to learn and be able to demonstrate the skills and strategies of the game through various practice and competitive activities. Material is presented through class instruction and handouts.

**Prerequisite:** None.

**Schedule Type:** Laboratory

**Contact Hours:** 2 lab

**Grade Mode:** Standard Letter

**PWS 10204 BADMINTON 1 Credit Hour**

Instruction in the skills and techniques of the game of Badminton

**Prerequisite:** None.

**Schedule Type:** Laboratory

**Contact Hours:** 2 lab

**Grade Mode:** Standard Letter

**PWS 10304 BOWLING 1 Credit Hour**

**Prerequisite:** None.

**Schedule Type:** Laboratory

**Contact Hours:** 2 lab

**Grade Mode:** Standard Letter

**PWS 10305 BILLIARDS 1 Credit Hour**

Skills, technique, strategy, game knowledge as introduction to billiards (pool), a 'cue' sport; rules and gaming for variations of pocket billiards; practice and class tournament play.

**Prerequisite:** None.

**Schedule Type:** Laboratory

**Contact Hours:** 2 lab

**Grade Mode:** Standard Letter

**PWS 10306 JOGGING 1 Credit Hour**

This course is designed to enhance cardiovascular fitness through jogging and or running. The course will focus on a mixture of training techniques including light jogging and interval type workouts. This course will also include supplemental exercises such as core strengthening and stretching. Students will perform basic calculations to determine target heart rate zones. Students will establish fitness goals and select appropriate activities to attain these goals. Pre and Post assessments will allow students to monitor progress towards their fitness goals.

**Prerequisite:** None.

**Schedule Type:** Laboratory

**Contact Hours:** 2 lab

**Grade Mode:** Standard Letter

**PWS 10325 SOCCER 1 Credit Hour**

(Repeatable for credit)

**Prerequisite:** None.

**Schedule Type:** Laboratory

**Contact Hours:** 2 lab

**Grade Mode:** Standard Letter

**PWS 10403 BEGINNING BALLROOM DANCE 1 Credit Hour**

This course is designed for the beginning social dance to learn how to partner dance in a recreational setting. Dances include: Foxtrot, Rhumba, Meringue, Swing, Cha Cha.

**Prerequisite:** None.

**Schedule Type:** Laboratory

**Contact Hours:** 2 lab

**Grade Mode:** Standard Letter

**PWS 10413 LATIN SOCIAL DANCE 1 Credit Hour**

Presentation of the DVIDA bronze syllabus for Latin dances. Introduction of Latin rhythm dances, which will include the Merengue, Salsa, Rumba, Cha Cha and Samba. Includes proper technique, rhythm of the dance and approximately 10-15 figures for each dance.

**Prerequisite:** None.

**Schedule Type:** Laboratory

**Contact Hours:** 2 lab

**Grade Mode:** Standard Letter

**PWS 10504 SAND VOLLEYBALL 1 Credit Hour**

Basic instruction in Volleyball skills and Sand Volleyball game strategies.

**Prerequisite:** None.

**Schedule Type:** Laboratory

**Contact Hours:** 2 lab

**Grade Mode:** Standard Letter

**PWS 10505 VOLLEYBALL 1 Credit Hour**

Introduction to the sport of Volleyball through instruction in individual and team skills, team building and game play.

**Prerequisite:** None.

**Schedule Type:** Laboratory

**Contact Hours:** 2 lab

**Grade Mode:** Standard Letter

**PWS 10604 BEGINNING GOLF 1 Credit Hour**

The student will have the opportunity to develop basic golf skills through lectures, demonstration, drills and game play. The student will also gain knowledge of golf etiquette and other areas as related to the game of golf.

**Prerequisite:** None.

**Schedule Type:** Laboratory

**Contact Hours:** 2 lab

**Grade Mode:** Standard Letter

**PWS 10704 INTERMEDIATE GOLF 1 Credit Hour**

Learn mechanics and techniques of the full golf swing, pitching, chipping, bunker play and putting. Learn to play better by playing rounds of golf. Learn the basic rules of golf and proper golf etiquette.

**Prerequisite:** PWS 10604.

**Schedule Type:** Laboratory

**Contact Hours:** 2 lab

**Grade Mode:** Standard Letter

**PWS 10904 TENNIS 1 Credit Hour**

You will be exposed to and utilize basic tennis skills, terms, and principles, with an emphasis on skill development and integration of playing tactics and strategies during match play.

**Prerequisite:** None.

**Schedule Type:** Laboratory

**Contact Hours:** 2 lab

**Grade Mode:** Standard Letter

**PWS 10906 RACQUETBALL 1 Credit Hour**

Instruction in the skills, techniques and strategies of the game of Racquetball.

**Prerequisite:** None.

**Schedule Type:** Laboratory

**Contact Hours:** 2 lab

**Grade Mode:** Standard Letter

**PWS 11126 FLAG FOOTBALL I 1 Credit Hour**

This course is designed to give the students an opportunity to review and practice the basic fundamental skills relative to the game of flag football. Students are expected to be able to demonstrate the skills and strategies of the game through various practice and competitive activities.

**Prerequisite:** None.

**Schedule Type:** Laboratory

**Contact Hours:** 2 lab

**Grade Mode:** Standard Letter

**PWS 11325 ADVANCED ICE HOCKEY 1 Credit Hour**

To build on the basic hockey fundamentals, leading to advanced team play and game situations providing deeper insight into the game of hockey.

**Prerequisite:** None.

**Schedule Type:** Laboratory

**Contact Hours:** 2 lab

**Grade Mode:** Standard Letter

**PWS 11327 KETTLEBELLS 1 Credit Hour**

A vigorous introductory physical conditioning course primarily utilizing kettlebells. Exercises designed to enhance strength, power, endurance, and agility will be emphasized. Introductory approach to kettlebell techniques and kettlebell program development.

**Prerequisite:** None.

**Schedule Type:** Laboratory

**Contact Hours:** 2 lab

**Grade Mode:** Standard Letter

**PWS 11425 VARSITY SPORTS 1 Credit Hour**

(Repeatable for credit) Designed to focus on advanced varsity sport skill development, to promote techniques and strategies to perform at a high level of competition, and to foster ethical values, sportsmanship and responsible citizenship through practices and game competitions. Designed for the student athlete who meets NCAA eligibility requirements.

**Prerequisite:** Special approval.

**Schedule Type:** Laboratory

**Contact Hours:** 2 lab

**Grade Mode:** Satisfactory/Unsatisfactory

**PWS 11426 VARSITY SPORT TRAINING AND CONDITIONING 1 Credit Hour**

(Repeatable for credit) Designed for sport specific training both in and out of season to produce highly skilled student-athletes through structured programs for immediate performance enhancement and injury prevention and to endure practice and competition. Designed for the student athlete who meets NCAA eligibility requirements.

**Prerequisite:** Special approval.

**Schedule Type:** Laboratory

**Contact Hours:** 2 lab

**Grade Mode:** Satisfactory/Unsatisfactory

**PWS 11435 SPORTS CONDITIONING 1 Credit Hour**

This course will cover methods and techniques that are used to safely and effectively enhance an individual's athletic performance by increasing speed, strength, endurance, agility and flexibility. This course will cover a variety of training principles, training methods, basic components of fitness and the physiological factors and benefits of exercise to promote a healthy lifestyle. This course is part theory and part practical application.

**Prerequisite:** None.

**Schedule Type:** Laboratory

**Contact Hours:** 2 lab

**Grade Mode:** Standard Letter

**PWS 11604 BEGINNING KARATE 1 Credit Hour**

A karate course designed for students with little or no martial arts or karate experience. This course will involve the training in the philosophy, principles, and techniques of Karate for self-defense, improvement of overall fitness and to give a greater understanding of the art and themselves.

**Prerequisite:** None.

**Schedule Type:** Laboratory

**Contact Hours:** 2 lab

**Grade Mode:** Standard Letter

**PWS 11605 INTERMEDIATE KARATE 1 Credit Hour**

Continuation of the perfection of basic karate techniques with the main emphasis on kumite (fighting).

**Prerequisite:** PWS 11604.

**Schedule Type:** Laboratory

**Contact Hours:** 2 lab

**Grade Mode:** Standard Letter

**PWS 11633 JU JITSU 1 Credit Hour**

Presentation of Ju-Jitsu and Judo techniques for use in self-defense. Includes falling, throwing, grappling, bars, locks, strikes, kicks and defends against various weapons.

**Prerequisite:** None.

**Schedule Type:** Laboratory

**Contact Hours:** 2 lab

**Grade Mode:** Standard Letter

**PWS 11634 SELF-DEFENSE 1 Credit Hour**

A self-defense course designed for students with little or no martial arts or self-defense background. Physical, verbal, and mental defensive techniques, tactics, and strategies are taught to prepare students for any potentially dangerous situation they may encounter. The course will also improve the student's physical and mental fitness.

**Prerequisite:** None.

**Schedule Type:** Laboratory

**Contact Hours:** 2 lab

**Grade Mode:** Standard Letter

**PWS 11663 BEGINNING YOGA 1 Credit Hour**

Overview course in yoga, an integrated study of health. Involves the investigation and practice of breathing techniques (pranayama), hatha yoga postures (asana), meditation and relaxation. Also unifies the mind, body and spirit.

**Prerequisite:** None.

**Schedule Type:** Laboratory

**Contact Hours:** 2 lab

**Grade Mode:** Standard Letter

**PWS 11664 PILATES 1 Credit Hour**

Pilates is a form of fitness endeavors which unite the rhythmic performances and strength with the conditioning principles of the movement sciences.

**Prerequisite:** None.

**Schedule Type:** Laboratory

**Contact Hours:** 2 lab

**Grade Mode:** Standard Letter

**PWS 11665 ZUMBA 1 Credit Hour**

Zumba® is a fitness program that fuses hypnotic Latin rhythms and easy-to-follow moves and mixes body sculpting movements with dance steps.

**Prerequisite:** None.

**Schedule Type:** Laboratory

**Contact Hours:** 2 lab

**Grade Mode:** Standard Letter

**PWS 11666 BEGINNING SPINNING 1 Credit Hour**

The Spinning program is based on two major components: health and fitness. Each of these parts is also related to the concept of mind (the health component) and body (the fitness component), and the overall program design is intended as more than a fitness regimen. It encourages Spinning participants to shift and broaden their perspectives by exposing them to new ideas and a variety of training styles and Energy Zones.

**Prerequisite:** None.

**Schedule Type:** Laboratory

**Contact Hours:** 2 lab

**Grade Mode:** Standard Letter

**PWS 11667 BOOT CAMP I 1 Credit Hour**

This course is designed to acquaint students with an exercise program using calisthenics, resistance training, running, and agility drills. The course will focus on increasing physical fitness, including cardiovascular efficiency, muscular strength, and flexibility. Students will also learn the fundamental principles of physical fitness and their effect on lifelong health and fitness.

**Prerequisite:** None.

**Schedule Type:** Laboratory

**Contact Hours:** 2 lab

**Grade Mode:** Standard Letter

**PWS 11673 INTERMEDIATE YOGA 1 Credit Hour**

Expansion of Yoga skills, building on knowledge base from Beginning Yoga. Students will explore movement components of anatomy, as related to yoga asanas and understand relationship of asanas to anatomy, creating movement and space.

**Prerequisite:** PWS 11663.

**Schedule Type:** Laboratory

**Contact Hours:** 2 lab

**Grade Mode:** Standard Letter

**PWS 11674 INTERMEDIATE PILATES 1 Credit Hour**

Intermediate Pilates reviews the fundamentals of the beginner class while moving on to the more challenging exercises and repertoire. Students will review and practice correct technique and form for strength, breathing, fluidity, and endurance for mat Pilates. This class is designed for experienced Pilates students.

**Prerequisite:** PWS 11664.

**Schedule Type:** Laboratory

**Contact Hours:** 2 lab

**Grade Mode:** Standard Letter



**PWS 11675 ZUMBA TONING 1 Credit Hour**

Zumba® is a fitness program that fuses hypnotic Latin and International rhythms with easy-to-follow moves and body sculpting movements to create a dynamic workout. The Zumba Toning® program uses hand held weights to enhance rhythm and tone the muscles, specifically arms, thighs, and abdomen. Zumba Toning is an ideal way to sculpt the body.

**Prerequisite:** None.

**Schedule Type:** Laboratory

**Contact Hours:** 2 lab

**Grade Mode:** Standard Letter

**PWS 11684 BALL PILATES 1 Credit Hour**

Ball Pilates, 'Pilates on an Exercise Ball' is very similar to other Pilates classes in that it incorporates many mat and equipment-based exercises. Adding the ball increases your mind-body awareness, core strength, balance and flexibility as you perform the work on an unstable base of support.

**Prerequisite:** None.

**Schedule Type:** Laboratory

**Contact Hours:** 2 lab

**Grade Mode:** Standard Letter

**PWS 11904 BEGINNING ICE SKATING 1 Credit Hour**

This course will give the beginner an introduction to the basic skills of ice skating with a focus on safe technique and the development of the basic skills of ice skating. Students will learn the fundamentals of balance, movement and safety on the ice.

**Prerequisite:** None.

**Schedule Type:** Laboratory

**Contact Hours:** 2 lab

**Grade Mode:** Standard Letter

**PWS 12004 BASIC FIGURE SKATING 1 Credit Hour**

This course will give the intermediate skater an introduction to the disciplines of figure skating and basic figure skating terminology. Students will learn figure skating fundamentals and how to use previously developed skills to achieve proficiency in more difficult skills.

**Prerequisite:** PWS 11904.

**Schedule Type:** Laboratory

**Contact Hours:** 2 lab

**Grade Mode:** Standard Letter

**PWS 12204 BEGINNING BROOMBALL 1 Credit Hour**

Broomball is a recreational ice game played in an ice rink. Skills, tactics and plays are similar to those used in ice hockey.

**Prerequisite:** None.

**Schedule Type:** Laboratory

**Contact Hours:** 2 lab

**Grade Mode:** Standard Letter

**PWS 12324 WEIGHT TRAINING 1 Credit Hour**

This course is designed to teach students the correct technique in lifting with machines, free weights and body weight in a safe and effective manner. Students learn scientific methods (macrocycle, mesocycle and microcycle) on how to correctly design a resistance training workout based around desired goals of strength, endurance, hypertrophy, power and speed. Students will be tested on the application of their knowledge by having to design an 8 week training planning with specific training principles used.

**Prerequisite:** None.

**Schedule Type:** Laboratory

**Contact Hours:** 2 lab

**Grade Mode:** Standard Letter

**PWS 12325 WOMEN'S WEIGHT TRAINING 1 Credit Hour**

A basic course in the use of equipment in an average weight room and its application towards the development of strength and power.

**Prerequisite:** None.

**Schedule Type:** Laboratory

**Contact Hours:** 2 lab

**Grade Mode:** Standard Letter

**PWS 12424 EXERCISE AND WEIGHT CONTROL 1 Credit Hour**

The course aims to educate the student on differing types of exercise styles currently available to assist in living a healthy lifestyle. The student will also learn ideal dietary requirements required to compliment the variety of exercise components. This course will teach how to combine this information to create a nutritional and training plan to meet current goals for this course. Students will pre-test and post-test physical fitness components in order to successfully assess how a change in a nutrition and exercise can contribute to living a healthy lifestyle.

**Prerequisite:** None.

**Schedule Type:** Laboratory

**Contact Hours:** 2 lab

**Grade Mode:** Standard Letter

**PWS 12425 NAUTILUS EXERCISES 1 Credit Hour**

This course will cover the proper use and weight training equipment. This course will also cover the instruction of proper weight training techniques for a safe and effective weight training program. Functional training and isolation training will be discussed and practiced, so that the student will benefit from both types of strength training exercises. The course is part theory and part practical application.

**Prerequisite:** None.

**Schedule Type:** Laboratory

**Contact Hours:** 2 lab

**Grade Mode:** Standard Letter

**PWS 13003 DANCE EXERCISE 1 Credit Hour**

Dance Exercise is a form of fitness, which unites the rhythmic performance, and energy of dance with the conditioning principles of the movement sciences. In addition to the physical exercise, students will also learn about the basic methodology behind an exercise class, a general history of dance exercise, and its relevance in the fitness industry today. Students should leave the course with knowledge of basic exercise and nutrition principles that can be applied in their personal exercise programs.

**Prerequisite:** None.

**Schedule Type:** Laboratory

**Contact Hours:** 2 lab

**Grade Mode:** Standard Letter

**PWS 13008 INTERMEDIATE VOLLEYBALL 1 Credit Hour**

Introduction of advanced playing systems and strategies in volleyball while emphasizing individual skill performance.

**Prerequisite:** PWS 10505.

**Schedule Type:** Laboratory

**Contact Hours:** 2 lab

**Grade Mode:** Standard Letter

**PWS 13010 JUDO-JUJITSU 1 Credit Hour**

Presentation of Jujitsu-Judo techniques for use in self-defense. This will include falling skills, throwing, grappling, come-along, as well as strikes and kicks and defenses against various weapons.

**Prerequisite:** None.

**Schedule Type:** Laboratory

**Contact Hours:** 2 lab

**Grade Mode:** Standard Letter

**PWS 13012 BACKPACKING 2 Credit Hours**

Trip planning and leadership, equipment and clothing selection, safety considerations, search and rescue, environmental ethics, map and compass, weekend backpacking trip. Student must supply equipment.

**Prerequisite:** Special approval.

**Schedule Type:** Lecture

**Contact Hours:** 4 lecture

**Grade Mode:** Standard Letter

**PWS 13016 CYCLING 1 Credit Hour**

**Prerequisite:** None.

**Schedule Type:** Laboratory

**Contact Hours:** 2 lab

**Grade Mode:** Standard Letter

**PWS 13022 CAMPING 2 Credit Hours**

Basic camping skills including: toolcraft, ropecraft, fire building, cooking, campsite management, equipment selection, safety considerations, environmental ethics, and map and compass for use on weekend trip.

Students must supply own clothing and shelter.

**Prerequisite:** Special approval.

**Schedule Type:** Laboratory

**Contact Hours:** 4 lecture

**Grade Mode:** Standard Letter

**PWS 13028 INTRODUCTION TO KAYAKING 1 Credit Hour**

Basic paddling skills learned in a pool environment and then experienced in open lakes and whitewater situations.

**Prerequisite:** None.

**Schedule Type:** Laboratory

**Contact Hours:** 2 lab

**Grade Mode:** Standard Letter

**PWS 13030 BEGINNING ROCK CLIMBING 1 Credit Hour**

Basic instruction in safe rope handling, knots, conditioning, climbing technique, belaying, anchor systems and rappelling.

**Prerequisite:** None.

**Schedule Type:** Laboratory

**Contact Hours:** 2 lab

**Grade Mode:** Standard Letter

**PWS 13036 INDOOR CYCLING 1 Credit Hour**

Covers the knowledge and skills that are needed for understanding and participating in an indoor cycling program. Also covers the components of fitness and the physiological factors and benefits of exercise to promote a healthy lifestyle.

**Prerequisite:** None.

**Schedule Type:** Laboratory

**Contact Hours:** 2 lab

**Grade Mode:** Standard Letter

**PWS 13040 CARDIO KICKBOXING 1 Credit Hour**

Covers the knowledge and skills that are needed to understand and participate in Cardio Kickboxing. Also covers the components of fitness and the physiological factors and benefits of exercise to promote a healthy lifestyle. This course is part theory and part practical application.

**Prerequisite:** None.

**Schedule Type:** Laboratory

**Contact Hours:** 2 lab

**Grade Mode:** Standard Letter

**PWS 13041 HARDCORE ABS 1 Credit Hour**

Examines methods and techniques that improve abdominal and back strength, mechanics and the ability to dynamically stabilize. The student masters total body movement that occur through all three planes of motion. The exercises are performed on a stable and unstable surface for greater balance challenge. Equipment is used to increase resistance to intensify the work load. Improves core strength and activities of daily living.

**Prerequisite:** None.

**Schedule Type:** Laboratory

**Contact Hours:** 2 lab

**Grade Mode:** Standard Letter

**PWS 13093 VARIABLE TITLE WORKSHOP IN EXERCISE, LEISURE AND SPORT 1-2 Credit Hours**

(Repeatable for credit) Workshop in exercise, leisure and sport activities topics vary.

**Prerequisite:** None.

**Schedule Type:** Workshop

**Contact Hours:** 1-3 other

**Grade Mode:** Satisfactory/Unsatisfactory

**Physical Education and Sport Performance (PESP)****PESP 15010 INTRODUCTION TO PHYSICAL EDUCATION, FITNESS AND SPORT 3 Credit Hours**

Development of a knowledge base on the roles, foundations, contextual and social issues, and career opportunities as they relate to physical education, physical activity and sport. Experimentation with various fitness tests and assessments that lead to the development of personal fitness plans.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PESP 15011 DEVELOPMENT AND ANALYSIS OF INVASION GAMES 3 Credit Hours**

Development, analysis and assessment of game performance skills used in invasion games.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PESP 15015 DEVELOPMENT AND ANALYSIS OF NET GAMES 3 Credit Hours**

Development and analysis of game performance skills in net games. Emphasis on problem solving strategies and skill execution related to game performance and on effective pedagogy.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PESP 15016 DEVELOPMENT AND ANALYSIS OF TARGET AND FIELD GAMES 3 Credit Hours**

Development and analysis of game performance skills used in target games and field-run-score games.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PESP 15018 DEVELOPMENT OF SWIMMING AND AQUATIC SKILLS  
1 Credit Hour**

Development and analysis of basic aquatic skills, swimming strokes, starts and turns, diving skills, physical fitness principles, aquatic safety and basic rescue techniques.

**Prerequisite:** None.

**Schedule Type:** Laboratory

**Contact Hours:** 2 lab

**Grade Mode:** Standard Letter

**PESP 15020 FUNDAMENTAL MOVEMENT, GYMNASTICS AND DANCE  
3 Credit Hours**

Designed to provide teachers and activity leaders with knowledge, skills, and dispositions necessary to teach developmentally appropriate progressions for fundamental movement skills, dance and gymnastics.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PESP 25025 TEACHING IN PHYSICAL EDUCATION 3 Credit Hours**

A seminar focused on the inquiry of teaching and learning of movement activities. A study of the role of the teacher, teacher behaviors, learning environments in movement activities and technology applications in physical education. Field observation hours requires a BCII and FBI background check report.

**Prerequisite:** PESP 15010.

**Schedule Type:** Laboratory, Lecture, Combined Lecture and Lab

**Contact Hours:** 1 lecture, 4 lab

**Grade Mode:** Standard Letter

**PESP 25026 OVERVIEW OF OUTDOOR PURSUITS AND ADVENTURE EDUCATION 3 Credit Hours**

An overview of outdoor pursuits and adventure education is provided for students preparing to serve students/clients in physically active, outdoor and adventure contexts. Includes a required service learning component, which involves the design and delivery of quality outdoor education programs and/or curricula to children within the local community.

**Prerequisite:** Physical Education and Sport Performance majors.

**Schedule Type:** Laboratory, Lecture, Combined Lecture and Lab

**Contact Hours:** 1 lecture, 4 lab

**Grade Mode:** Standard Letter

**PESP 25033 LIFESPAN MOTOR DEVELOPMENT 3 Credit Hours**

Introduction to motor development across the life span. Special emphasis on description of motor development changes and factors influencing change.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PESP 25056 ASSESSMENT OF LEARNING IN PHYSICAL EDUCATION AND SPORT 3 Credit Hours**

This course is designed to provide students with an understanding of the principles and applications of assessment methods in the fields of physical education and sport. Emphasis is placed on the selection, construction, administration, analysis and interpretation of appropriate assessments in a variety of settings, with particular emphasis on using assessments to evaluate learner progress relative to established standards in PE and sport. Throughout the course appropriate technological applications are used to facilitate data collection, management and analysis.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PESP 35010 PSYCHOLOGICAL DIMENSIONS OF MOTOR BEHAVIOR (WIC) 3 Credit Hours**

Psychological factors in exercise, physical activity and sport emphasizing motor control learning and performance. Laboratory included.

**Prerequisite:** EXSC 35068 or PESP 25056; and junior standing.

**Schedule Type:** Laboratory, Lecture, Combined Lecture and Lab

**Contact Hours:** 2 lecture, 2 lab

**Grade Mode:** Standard Letter

**Attributes:** Writing Intensive Course

**PESP 35020 FITNESS EDUCATION 3 Credit Hours**

This course is designed to prepare teachers, coaches, and physical activity specialists for an interdisciplinary approach to fitness education. Specific emphasis will be placed on enhancing students' content knowledge of fitness and physical activity within a classroom setting as well as applying pedagogical principles of class management, instructional strategies, feedback and assessment in practical settings to enhance students' ability to teach and coach fitness content within a variety of physical education, sport and physical activity contexts.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PESP 35040 COACHING FOOTBALL 2 Credit Hours**

Techniques of coaching football, including film analysis and offensive and defensive skills and systems.

**Prerequisite:** Not open to freshmen.

**Schedule Type:** Laboratory, Lecture, Combined Lecture and Lab

**Contact Hours:** 1 lecture, 2 lab

**Grade Mode:** Standard Letter

**PESP 35041 COACHING SOCCER 2 Credit Hours**

Coaching soccer, including analysis of skills strategy and administrative responsibilities.

**Prerequisite:** Not open to freshmen.

**Schedule Type:** Laboratory, Lecture, Combined Lecture and Lab

**Contact Hours:** 1 lecture, 2 lab

**Grade Mode:** Standard Letter

**PESP 35042 COACHING VOLLEYBALL 2 Credit Hours**

Coaching volleyball, including analysis of skills, offensive and defensive strategy and administrative responsibilities.

**Prerequisite:** Not open to freshmen.

**Schedule Type:** Laboratory, Lecture, Combined Lecture and Lab

**Contact Hours:** 1 lecture, 2 lab

**Grade Mode:** Standard Letter

**PESP 35044 COACHING BASKETBALL 2 Credit Hours**

Philosophy, fundamentals, strategy, administrative responsibilities and conditioning.

**Prerequisite:** Not open to freshmen.

**Schedule Type:** Laboratory, Lecture, Combined Lecture and Lab

**Contact Hours:** 1 lecture, 2 lab

**Grade Mode:** Standard Letter

**PESP 35048 COACHING BASEBALL AND SOFTBALL 2 Credit Hours**

Coaching techniques in softball and baseball, including analysis of basic skills, position play and offensive and defensive strategies.

**Prerequisite:** Not open to freshmen.

**Schedule Type:** Laboratory, Lecture, Combined Lecture and Lab

**Contact Hours:** 1 lecture, 2 lab

**Grade Mode:** Standard Letter

**PESP 35049 COACHING TRACK AND FIELD 2 Credit Hours**

Coaching techniques relative to track and field events. Principles of organization for track and field meets.

**Prerequisite:** Not open to freshmen.

**Schedule Type:** Laboratory, Lecture, Combined Lecture and Lab

**Contact Hours:** 1 lecture, 2 lab

**Grade Mode:** Standard Letter

**PESP 35084 MOTOR SKILL ANALYSIS 3 Credit Hours**

Designed to assist teachers, coaches, and physical activity specialists in the analysis of motor skills. Students study the applications of performance and biomechanical principles to enhance skill and tactical performance in physical activity settings.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PESP 45015 PSYCHOLOGY OF COACHING 3 Credit Hours**

(Slashed with CI 55015) Psychological factors affecting athletic performance, with particular attention to practice factors, personality, motivation and problem athletes.

**Prerequisite:** Junior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PESP 45020 CONTEMPORARY ATHLETIC COACHING 3 Credit Hours**

(Slashed with CI 55020) A focus on the philosophy, skills strategies and tactics of coaching within contemporary society.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PESP 45037 ADAPTED PHYSICAL EDUCATION 3 Credit Hours**

An academic and practical approach to physical education for specific disorders. Field based experience (10 hours).

**Prerequisite:** Junior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PESP 45051 ELEMENTARY SCHOOL PHYSICAL EDUCATION METHODS 3 Credit Hours**

(Slashed with CI 55051) Approaches to teaching in elementary school physical education. Focus on establishing an environment for learning, planning standards based lessons, instructional effectiveness, and assessment of student learning. Students are required to complete Bureau of Criminal Investigation and Identification (BCII) and Federal Bureau of Investigation (FBI) background checks and submit the results to authorized personnel at their assigned school-agency before the first day of field experience.

**Prerequisite:** PESP 15010 and PESP 15011 and PESP 15015 and PESP 15016 and PESP 15020 and PESP 25025 and PESP 25033; and admission to advanced study.

**Corequisite:** PESP 45053.

**Schedule Type:** Laboratory, Lecture, Combined Lecture and Lab

**Contact Hours:** 2 lecture, 2 lab

**Grade Mode:** Standard Letter

**PESP 45053 ELEMENTARY SCHOOL PHYSICAL EDUCATION CONTENT 3 Credit Hours**

(Slashed with CI 55053) Physical education content for the elementary school child with emphasis on developmentally appropriate learning in three domains. Students are required to complete Bureau of Criminal Investigation and Identification (BCII) and Federal Bureau of Investigation (FBI) background checks and submit the results to authorized personnel at their assigned school-agency before the first day of field experience.

**Prerequisite:** PESP 15010 and PESP 15011 and PESP 15015 and PESP 15016 and PESP 15020 and PESP 25025 and PESP 25033; and admission to advanced study.

**Corequisite:** PESP 45051.

**Schedule Type:** Laboratory, Lecture, Combined Lecture and Lab

**Contact Hours:** 2 lecture, 2 lab

**Grade Mode:** Standard Letter

**PESP 45058 SECONDARY SCHOOL PHYSICAL EDUCATION METHODS 3 Credit Hours**

(Slashed with CI 55058) Approaches to teaching in secondary school physical education. Focus on management of the learning environment, planning for learning outcomes in three domains, instructional effectiveness, and sequential curriculum development. Students are required to complete Bureau of Criminal Investigation and Identification (BCII) and Federal Bureau of Investigation (FBI) background checks and submit the results to authorized personnel at their assigned school-agency before the first day of field experience.

**Prerequisite:** PESP 15010 and PESP 15011 and PESP 15015 and PESP 15016 and PESP 15020 and PESP 25025 and PESP 25033; and admission to advanced study.

**Corequisite:** PESP 45059.

**Schedule Type:** Laboratory, Lecture, Combined Lecture and Lab

**Contact Hours:** 2 lecture, 2 lab

**Grade Mode:** Standard Letter

**PESP 45059 SECONDARY SCHOOL PHYSICAL EDUCATION CONTENT**  
**3 Credit Hours**

(Slashed with CI 55059) Introduction and development of content, standards-based curriculum models, management and organizational skills related to sports and activities utilized in secondary school physical education. Students are required to complete Bureau of Criminal Investigation and Identification (BCII) and Federal Bureau of Investigation (FBI) background checks and submit the results to authorized personnel at their assigned school-agency before the first day of field experience.

**Prerequisite:** PSEP 15010 and PESP 15011 and PESP 15015 and PESP 15016 and PESP 15020 and PESP 25025 and PESP 25033; and admission to advanced study.

**Corequisite:** PESP 45058.

**Schedule Type:** Laboratory, Lecture, Combined Lecture and Lab

**Contact Hours:** 2 lecture, 2 lab

**Grade Mode:** Standard Letter

**PESP 45092 INTERNSHIP IN PHYSICAL EDUCATION (ELR) 2-4**  
**Credit Hours**

(Repeatable for a maximum of 8 credit hours) Supervised full-time experience providing knowledge of overall operations for an agency or sports program in an approved setting. Forty-five (45) work hours per credit hour.

**Prerequisite:** Senior standing; and special approval.

**Schedule Type:** Practical Experience

**Contact Hours:** 6-12 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**Attributes:** Experiential Learning Requirement

**PESP 45096 INDIVIDUAL INVESTIGATION IN PHYSICAL EDUCATION**  
**1-3 Credit Hours**

(Repeatable for a maximum of 6 credit hours) Independent study completed under the supervision of a faculty member. Written approval of supervising faculty member and school director required prior to registration.

**Prerequisite:** Junior standing; and special approval.

**Schedule Type:** Individual Investigation

**Contact Hours:** 3-6 other

**Grade Mode:** Standard Letter-IP

**PESP 45692 INTERNSHIP IN ATHLETIC COACHING (ELR) 2-4**  
**Hours**

(Repeatable for a maximum of 4 credit hours) Supervised experience in organized sport focused upon the duties of a coach; can involve one or more level (youth, school, college, professional) and sport. 45 contact hours per credit.

**Prerequisite:** PESP 45020; and special approval.

**Schedule Type:** Practical Experience

**Contact Hours:** 6-12 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**Attributes:** Experiential Learning Requirement

**PESP 49525 INQUIRY INTO PROFESSIONAL PRACTICE IN PHYSICAL**  
**EDUCATION 3 Credit Hours**

Seminar focused on development of those skills and knowledge which enable future teachers to engage in effective reflective, collaborative and ethical professional practice.

**Prerequisite:** Admission to advanced study.

**Corequisite:** PESP 49592.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PESP 49592 STUDENT TEACHING IN PHYSICAL EDUCATION (ELR)**  
**12 Credit Hours**

This experience provides for a full semester of student teaching in a school setting that is corequisite with PESP 49525 Inquiry into Professional Practice in Physical Education. Students are required to complete Bureau of Criminal Investigation and Identification (BCII) and Federal Bureau of Investigation (FBI) background checks and submit the results to authorized personnel at their assigned school/agency before the first day of the semester in which student teaching/ internship will take place; Official valid certification of Child Safety Training, approved Basic Life Support and A.L.I.C.E. Training must be presented to the campus office of clinical experience or designated faculty/staff at Regional campuses as prerequisite for student teaching.

**Prerequisite:** Admission to advanced study; and special approval.

**Corequisite:** PESP 49525.

**Schedule Type:** Practical Experience

**Contact Hours:** 45 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**Attributes:** Experiential Learning Requirement

## Education - Minor

**College of Education Health and Human Services**

408 White Hall

Kent Campus

330-672-2202

ehhsdean@kent.edu

www.kent.edu/ehhs

## Description

The Education minor allows students pursuing a major other than teacher education to prepare for public school teaching. The minor provides the professional coursework necessary for graduates to seek an Ohio teaching license.

### Fully Offered At:

- Kent Campus

## Admission Requirements

Admission to the minor is selective, open only to students who have a minimum 2.500 overall GPA and are declared in a program area for which the state of Ohio issues a teaching license. Those majors at Kent State are the following: Biology; Spanish; Mathematics; Earth Science; American Sign Language; Classics (Latin concentration); Teaching English as a Second Language; French; and German.

The Education minor does not provide preparation for teacher licensure in English or individual social science areas (e.g., economics, geography, history, political science, psychology or sociology). Students wishing to pursue licensure in one of those areas should declare, instead, the Integrated Language Arts or Integrated Social Studies major. Students should contact a college advisor for more information.

To declare this minor, students must have attempted a minimum 12 credit hours at Kent State and earned a minimum 2.500 overall Kent State GPA. Students who have not attempted 12 credit hours at Kent State will be evaluated for admission based on their high school GPA for new students or transfer GPA for transfer students. Transfer students who have not attempted 12 credit hours of college-level coursework at Kent



State and/or other institutions will be evaluated based on both their high school GPA and college GPA.

## Minor Requirements

Code	Title	Credit Hours
<b>Minor Requirements</b>		
CI 47330	READING AND WRITING IN ADOLESCENCE/ADULTHOOD (min C grade)	3
CULT 29535	EDUCATION IN A DEMOCRATIC SOCIETY (min C grade)	3
EPSY 29525	EDUCATIONAL PSYCHOLOGY (min C grade)	3
ETEC 39525	EDUCATIONAL TECHNOLOGY (min C grade)	3
SPED 23000	INTRODUCTION TO EXCEPTIONALITIES (DIVD) (min C grade)	3
Secondary Student Teaching Requirement		9
<i>Students in a Foreign Language Major</i>		
MCLS 40657	STUDENT TEACHING OF A SECOND LANGUAGE (ELR)	
<i>Students in Teaching English as a Second Language Major</i>		
ENG 41009	STUDENT TEACHING (ELR)	
Inquiry into Professional Practice Requirement		3
<i>Students in a Foreign Language Major</i>		
MCLS 40525	INQUIRY INTO PROFESSIONAL PRACTICE (min C grade)	
<i>Students in Teaching English as a Second Language Major</i>		
ENG 41525	INQUIRY INTO PROFESSIONAL PRACTICE (min C grade)	
Methods Requirement		6
<i>Students in a Foreign Language Major</i>		
MCLS 30660	ORIENTATION TO SECOND LANGUAGE PEDAGOGY (min C grade)	
MCLS 40660	METHODS OF TEACHING FOREIGN LANGUAGE (min C grade)	
<i>Students in Teaching English as a Second Language Major</i>		
ENG 31007	PEDAGOGY FOR TEACHING ENGLISH AS A SECOND LANGUAGE (min C grade)	
ENG 41003	LANGUAGE CURRICULUM, MATERIALS AND ASSESSMENT (min C grade)	
Additional Courses		9
<i>Students in a Foreign Language Major</i>		
MCLS 30420	FOREIGN LANGUAGES AND CULTURE STUDIES (min C grade)	
MCLS 40654	COMPUTERS IN SECOND LANGUAGE TEACHING (min C grade)	
PSYC 40461	PSYCHOLOGY OF LANGUAGE (min C grade)	
<i>Students in Teaching English as a Second Language Major</i>		
ADED 32142	PRINCIPLES OF TEACHING ADOLESCENTS (WIC) (min C grade)	
ENG 31005	CHILD SECOND LANGUAGE ACQUISITION (min C grade)	
ENG 41192	ESL PRACTICUM IN A P-12 SETTING (ELR) (min C grade)	
EVAL 45610	CLASSROOM ASSESSMENT (min C grade in any)	
or HDF5 34031	CULTURAL DIVERSITY:IMPLICATIONS FOR THE HELPING PROFESSIONS	
or MCED 40005	EFFECTIVE USE OF PHONICS IN READING	

Minimum Total Credit Hours:

42

## Progression Requirement

Students must meet all professional requirements for admission to advanced study.

To manage enrollment and deliver high-quality programs, the faculty will select the most qualified applicants for admission based upon evaluation of standardized test scores of reading, writing and mathematics; academic success (overall GPA) at Kent State University; non-academic criteria and other specific program criteria.

Please be aware that reapplication may be necessary if postponing advanced study coursework or if withdrawn for one year or more.

## Graduation Requirements

Minimum Minor GPA	Minimum Overall GPA
2.000	2.000

- Based on program requirements, credits may exceed the minimum required for the minor. When a difference exists between the two colleges' major requirements in teaching fields, students must also complete the specific major sequences required by the College of Education, Health and Human Services. This ensures that the students will meet licensure requirements.
- Those pursuing an Education minor must be admitted to advanced study prior to student teaching. For complete student teaching information, refer to the Clinical Experience/Student Teaching website through EHHS Vacca Office of Student Services.
- Minimum 2.500 overall GPA and 2.500 major GPA are required for advanced study, student teaching, graduation and licensure. All courses in the minor must be completed with a minimum C or S grade. Some majors may have a higher GPA required, see advisor.
- Minimum 6 credit hours in the minor must be upper-division coursework (30000 and 40000 level).
- Minimum 6 credit hours in the minor must be outside of the course requirements for any major or other minor the student is pursuing.
- Minimum 50 percent of the total credit hours for the minor must be taken at Kent State (in residence).

## Licensure Information

Candidates seeking Ohio licensure are required to pass specific assessments in order to apply for licensure. See the Ohio Department of Education-Educator Preparation website for more information on assessments specific to licensure type. Taking and passing the licensure tests prior to graduation is encouraged but not required.

## School of Foundations, Leadership and Administration

**College of Education Health and Human Services**  
 School of Foundations, Leadership and Administration  
 300 White Hall  
 Kent Campus  
 330-672-2012  
[www.kent.edu/ehhs/fla](http://www.kent.edu/ehhs/fla)

## Undergraduate Programs

- Educational Studies - B.S.
- Hospitality Management - B.S.
- Recreation, Park and Tourism Management - B.S.
- Sport Administration - B.S.

## Minors

- Disability Studies and Community Inclusion
- Event Planning
- Hospitality Management
- Park Management
- Recreation Management
- Sport Administration
- Tourism Management

## Graduate Programs

- Cultural Foundations - M.A.
- Cultural Foundations - M.Ed.
- Cultural Foundations - Ph.D.
- Educational Leadership K-12 - M.Ed.
- Educational Leadership K-12 - Ed.S.
- Educational Leadership K-12 - Ph.D.
- Evaluation and Measurement - M.Ed.
- Evaluation and Measurement - Ph.D.
- Higher Education Administration - Ph.D.
- Higher Education Administration and Student Affairs - Ed.S.
- Higher Education Administration and Student Affairs - M.Ed.
- Hospitality and Tourism Management - M.S.
- Interprofessional Leadership - Ed.D.
- Sport Administration - M.A.

## Certificates

### Graduate Certificates

- Career and Academic Advising
- College Teaching
- Community College Leadership
- Disability Studies and Community Inclusion
- Institutional Research and Assessment
- Internationalization of Higher Education
- Ohio Superintendent's Licensure
- Qualitative Research

## Licensure/Endorsement Programs - Non-Degree

### Graduate

- Principal Grades 4-9 Licensure Preparation
- Principal Grades 5-12 Licensure Preparation
- Principal Grades PK-6 Licensure Preparation

## School of Foundations, Leadership and Administration Faculty

- Boske, Christa A. (2008), Associate Professor, Ed.D., Northern Illinois University, 2006
- Chuang, Ning Kuang (2005), Associate Professor, Ph.D., Texas Tech University, 2005
- Clark, Debra L. (1995), Associate Professor, Ph.D., Kent State University, 2003
- Damrow, Amy (2014), Assistant Professor, Ph.D., Michigan State University, 2011
- Devine, Mary Ann (1997), Professor, Ed.D., University of Georgia, 1997
- Eckert, Erica L. (1998), Assistant Professor & Assistant Dean, Ph.D., Kent State University, 2012
- Eith, Andrew S. (2014), Lecturer, New England Culinary Institute, 2013
- Gonzalez, Gloria L. (1998), Assistant Professor & Academic Program Director, Ph.D., University of Iowa, 1994
- Gornik, Rosemary (2003), Assistant Professor, Ph.D., Kent State University, 2003
- Guivernau, Marta (2007), Assistant Professor, Ph.D., Purdue University, 1999
- Hamilton, Anthony J. (2017), Associate Lecturer
- Hoegler, Edward M. (2008), Associate Lecturer, M.S., Johnson & Wales University, 1994
- Hudson, Tara D. (2017), Assistant Professor, Ph.D., North Carolina State, 2015
- Israeli, Aviad A. (2012), Associate Professor, Ph.D., Kent State University, 1997
- Karpinski, Aryn C. (2010), Assistant Professor, Ph.D., The Ohio State University, 2010
- Kosmidis, Aryn C. (2010), Associate Professor
- Kretovics, Mark A. (2001), Associate Professor, Ph.D., Colorado State University, 1998
- Lee, Seon Jeong (2014), Assistant Professor, Ph.D., University of Massachusetts, Amherst, 2014
- Lee, Kiwon (2017), Assistant Professor, Ph.D., Penn State University, 2013
- Lepp, Andrew P. (2004), Professor, Ph.D., University of Florida, 2004
- Levinson, Natasha (1997), Associate Professor, Ph.D., University of Illinois, Urbana-Champaign, 2001
- Li, Jian (2012), Associate Professor, Ph.D., The Ohio State University, 2012
- Lyberger, Mark R. (1996), Associate Professor, Ph.D., The Ohio State University, 1996
- Merrill, Martha C. (2008), Associate Professor, Ph.D., University of Michigan, Ann Arbor, 1982
- Mulrooney, Aaron L. (1992), Associate Professor, J.D., University of Akron, 1990
- Niesz-Kutsch, Tricia (2004), Associate Professor, Ph.D., University of Pennsylvania, 2003
- Parr, Mary G. (1992), Associate Professor, Ph.D., University of Illinois-Urbana, Champaign, 1992
- Pasquarella, Deborah S. (2019), Associate Lecturer, M.Ed., Colorado State University, 1988
- Porter, Christa J. (2017), Assistant Professor, Ph.D., University of Georgia, 2013

- Schenker, Jason D. (2000), Associate Professor, Ph.D., Kent State University, 2007
- Schimmel, Kimberly S. (1995), Professor & School Director, Ph.D., University of North Carolina-Greensboro, 1994
- Seeberg, Vilma (1989), Associate Professor
- Siler, Greta Y. (2004), Associate Lecturer, M.S., Kent State University, 2007
- Thomas, Stephen B. (1985), Professor, Ed.D., University of Florida, 1974
- Ulicney, Mandy L. (2010), Associate Lecturer, M.S., Kent State University, 2011
- Walton-Fisette, Theresa A. (2003), Professor, Ph.D., University of Iowa, 2002
- Wang, Philip C. (1990), Associate Professor, Ph.D., Pennsylvania State University, 1991
- Yim, Hyong Il (2015), Assistant Professor, Ph.D., University of Georgia, 2015

## Cultural Foundations (CULT)

### CULT 20091 PREPROFESSIONAL SEMINAR IN EDUCATIONAL STUDIES 2-4 Credit Hours

(Repeatable for credit) Introduction to the nature and scope of educational service delivery across settings, and to the social and cultural foundations of educational policies and programs. Open to any university student and to those considering alternative careers in education.

**Prerequisite:** None.

**Schedule Type:** Seminar

**Contact Hours:** 2-4 other

**Grade Mode:** Standard Letter

### CULT 29535 EDUCATION IN A DEMOCRATIC SOCIETY 3 Credit Hours

Students utilize readings, explore themes, broadly explore purposes of school in society and what knowledge, dispositions and performances are necessary to be a successful teacher today.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** CTAG Education, TAG Education

### CULT 39539 INTRODUCTION TO THE PHILOSOPHY OF EDUCATION 3 Credit Hours

An introduction to the philosophical analysis of educational problems focusing on the goals of education and the school's role in achieving these goals.

**Prerequisite:** Junior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

### CULT 39595 SPECIAL TOPICS IN CULTURAL FOUNDATIONS 2-4 Credit Hours

(Repeatable for credit) Directed reading and/or research of special interest or need to small groups of students in cultural foundations. Planned with and directed by a faculty member.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 2-4 lecture

**Grade Mode:** Standard Letter-IP

### CULT 39596 INDIVIDUAL INVESTIGATION IN CULTURAL FOUNDATIONS 1-3 Credit Hours

(Repeatable for credit) Directed independent reading and/or research of special interest or need in student program. Planned with and directed by a faculty member.

**Prerequisite:** Special approval.

**Schedule Type:** Individual Investigation

**Contact Hours:** 1-3 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

### CULT 40093 VARIABLE TITLE WORKSHOP IN CULTURAL FOUNDATIONS 1-4 Credit Hours

(Repeatable for credit) (Slashed with CULT 50093 and CULT 70093) Variable topics; designed to respond to specialized needs of various groups within the context of trends issues and problems in the educational foundations disciplines.

**Prerequisite:** Special approval.

**Schedule Type:** Workshop

**Contact Hours:** 1-4 other

**Grade Mode:** Satisfactory/Unsatisfactory

### CULT 49570 SOCIAL FOUNDATIONS OF MULTICULTURAL EDUCATION 3 Credit Hours

Explores the history, social context, and issues in multicultural education (formal PK-12) in the U.S. Students gain an appreciation of the challenges of equalizing opportunity of educational achievement, an understanding that is essential for 21st century educational leadership.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

### CULT 50093 VARIABLE TITLE WORKSHOP IN CULTURAL FOUNDATIONS 1-4 Credit Hours

(Repeatable for credit) (Slashed with CULT 40093 and CULT 70093) Offered on request of school system. Enrollment limited to teachers, administrators or supervisors who are employed in sponsoring system and who are accepted to the university.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Workshop

**Contact Hours:** 1-4 other

**Grade Mode:** Satisfactory/Unsatisfactory

### CULT 59570 SOCIAL FOUNDATIONS OF MULTICULTURAL EDUCATION 3 Credit Hours

Explores the history, social context, and issues in multicultural education (formal PK-12) in the U.S. Students gain an appreciation of the challenges of equalizing opportunity of educational achievement, an understanding that is essential for 21st century educational leadership.

**Prerequisite:** Graduate standing.

**Schedule Type:** Seminar

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CULT 60030 SOCIAL CONTEXTS OF EDUCATION: CONTEMPORARY ISSUES AND THEORY 3 Credit Hours**

(Slashed with CULT 80030) The course will explore contemporary social contexts of education through the lenses of major sociological perspectives, including seminal theoretical works and emerging contemporary scholarship. Students will become familiar with the uses of classic and current sociological theories in order to understand contemporary educational issues.

**Prerequisite:** Graduate standing.

**Schedule Type:** Seminar

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CULT 60050 HUMANITIES-ORIENTED RESEARCH IN EDUCATION 3 Credit Hours**

(Slashed with CULT 80050) Course is designed to give students an understanding of humanities-oriented approaches to research in education. This includes disciplinary approaches to the study of education (philosophy, history, literary theory) as well as humanities oriented theoretical work in the social sciences. Students will develop facility with key concepts as well as approaches to method and research design within these approaches.

**Prerequisite:** Graduate standing.

**Schedule Type:** Seminar

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CULT 60199 THESIS I 2-6 Credit Hours**

This student must register for total of 6 hours, 2 to 6 hours in a single semester distributed over several semesters if desired.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Masters Thesis

**Contact Hours:** 2-6 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**CULT 60299 THESIS II 2 Credit Hours**

This student must continue registration each semester until all degree requirements are met. Graduate standing.

**Prerequisite:** CULT 60199.

**Schedule Type:** Masters Thesis

**Contact Hours:** 2 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**CULT 65530 FOUNDATIONS OF EDUCATION AND HUMAN SERVICES 3 Credit Hours**

Inquiry into the assumptions and implications of educational policies and practices in education and human service settings through the application of historical, philosophical and sociological perspectives.

**Prerequisite:** Graduate standing.

**Schedule Type:** Seminar

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CULT 69510 CLASSICS IN PHILOSOPHY OF EDUCATION 3 Credit Hours**

(Repeatable for a maximum of 6 credit hours) (Slashed with CULT 79510) Philosophical exploration of the relationship between education and society and the dynamics of education through close reading and discussion of a selection of influential philosophical texts.

**Prerequisite:** Graduate standing.

**Schedule Type:** Seminar

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CULT 69521 MULTICULTURAL EDUCATIONAL PRACTICE AND POLICY 3 Credit Hours**

Interdisciplinary inquiry into issues of pluralism and its influence on professional practice in education and human service settings. Cross-cultural interaction will be analyzed; reflection on developing culturally responsive professional practice.

**Prerequisite:** Graduate standing.

**Schedule Type:** Seminar

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CULT 69522 ETHICS IN PROFESSIONAL PRACTICE 3 Credit Hours**

(Slashed with CULT 89522) An examination of ethics in schooling and other educational settings through foundational study and issue analysis; strong case study and professional application emphasis.

**Prerequisite:** Graduate standing.

**Schedule Type:** Seminar

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CULT 69530 MULTICULTURAL THEORIES AND SCHOLARSHIP IN EDUCATION 3 Credit Hours**

(Slashed with CULT 79530) An investigation of multicultural theories in education, the social sciences and humanities as articulated in the works of major scholars. Approaches to research and scholarship and contemporary issues in public discourse is explored.

**Prerequisite:** Graduate standing.

**Schedule Type:** Seminar

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CULT 69560 CONTEMPORARY PHILOSOPHY OF EDUCATION 3 Credit Hours**

(Slashed with CULT 79560) Explores a range of contemporary philosophical perspectives on the moral and political dimensions of education. Students will be introduced to the philosophical frameworks through which these questions are discussed within the field of philosophy of education and they will have opportunity to engage these debates in the course of carefully structured writing assignments.

**Prerequisite:** Graduate standing.

**Schedule Type:** Seminar

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CULT 69564 HISTORY OF AMERICAN EDUCATION 3 Credit Hours**

(Cross-listed with CULT 79564) European origins and American innovations in colonial education, rise of common school, completion of education ladder. Emphasis is on present status and recent developments.

**Prerequisite:** Graduate standing.

**Schedule Type:** Seminar

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CULT 69567 HISTORY OF HIGHER EDUCATION 3 Credit Hours**  
(Slashed with CULT 79567) (Cross-listed with HIED 66600 and HIED 76600) Overview and exploration of history of higher education in the United States. Survey course covers ancient and medieval European antecedents but focuses largely on American Higher Education from the seventeenth through the 20th century. Students explore changes in student body, curricula and purposes of higher education in the U.S. in the context of American culture.  
**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture  
**Contact Hours:** 3 lecture  
**Grade Mode:** Standard Letter

**CULT 69569 INTERNATIONAL EDUCATION: FOUNDATIONAL ISSUES 3 Credit Hours**  
(Slashed with CULT 79569) An introductory seminar to explore current foundational issues and challenges in education worldwide (nonformal, formal PK-advanced post-secondary education). Students gain an understanding of the socio-political, historical context of education worldwide and implications for local policy formation. An international-comparative approach connects and integrates cross-cultural literature, theoretical and research scholarship, on the impact of world dynamics on education. Students also explore the impact of education on economies and social compacts worldwide, with attention to inequalities or marginalities based on region, social status, ethnicity, race, religion, gender and disability.

**Prerequisite:** Graduate standing.  
**Schedule Type:** Seminar  
**Contact Hours:** 3 lecture  
**Grade Mode:** Standard Letter

**CULT 69570 MULTICULTURAL EDUCATION: THEORY AND POLICY 3 Credit Hours**  
(Slashed with CULT 79570) Theoretical foundations of cultural pluralism, structural marginalization processes, knowledge construction, equity pedagogy and praxis in intercultural relations, democratic change processes and policy addressing inequities in institutional practices.

**Prerequisite:** Graduate standing.  
**Schedule Type:** Seminar  
**Contact Hours:** 3 lecture  
**Grade Mode:** Standard Letter

**CULT 69571 GLOBALIZATION AND EDUCATION 3 Credit Hours**  
(Slashed with CULT 79571) A multi-disciplinary exploration of the impact of globalization/localization on the delivery and uses of education and the dynamics of power and resistance in globalized education.

**Prerequisite:** Graduate standing.  
**Schedule Type:** Seminar  
**Contact Hours:** 3 lecture  
**Grade Mode:** Standard Letter

**CULT 69575 ANTHROPOLOGY AND EDUCATION 3 Credit Hours**  
(Slashed with CULT 79575) Students explore the contributions that cultural and social anthropologists have made to the study of education broadly conceived, focusing particularly on studies addressing the interrelationships among education, culture and forms of social inequity. Through engaging in critical readings of classic and contemporary educational ethnographies, students explore the myriad ways in which 'culture' has been theoretically conceptualized as well as the implications of those conceptualizations for educational inquiry and practice.

**Prerequisite:** Graduate standing.  
**Schedule Type:** Seminar  
**Contact Hours:** 3 lecture  
**Grade Mode:** Standard Letter

**CULT 69582 SOCIAL THEORIES IN EDUCATION 3 Credit Hours**  
(Slashed with CULT 89582) This course examines both classic and contemporary social theories in education. Students will become familiar with different social theories, specifically focusing on strengths and limitations of various theoretical approaches. Students will also analyze the role social theories have had upon educational research, and examine different conceptual issues within various social theoretical traditions.

**Prerequisite:** Graduate standing.  
**Schedule Type:** Seminar  
**Contact Hours:** 3 lecture  
**Grade Mode:** Standard Letter

**CULT 69591 SEMINAR IN CULTURAL FOUNDATIONS 1-5 Credit Hours**  
(Repeatable for credit) (Slashed with CULT 89591) Variable topic seminar for advanced study of specialized topics and areas; in cultural foundations; emphasis on theory and research findings as related to educational practice.

**Prerequisite:** Graduate standing.  
**Schedule Type:** Seminar  
**Contact Hours:** 1-5 other  
**Grade Mode:** Standard Letter

**CULT 69592 ADVANCED PRACTICUM AND INTERNSHIP IN CULTURAL FOUNDATIONS 2-6 Credit Hours**

(Repeatable for credit) (Slashed with CULT 89592) Supervised program in field setting involving application of theories, principles and methodology in cultural foundations of education; planned with and supervised by graduate faculty member.

**Prerequisite:** Graduate standing; and special approval.  
**Schedule Type:** Practical Experience  
**Contact Hours:** 6-18 other  
**Grade Mode:** Satisfactory/Unsatisfactory-IP

**CULT 69595 SPECIAL TOPICS IN CULTURAL FOUNDATIONS 1-3 Credit Hours**  
(Repeatable for credit) (Slashed with CULT 89595) Specific topic course offering in response to emerging student or program needs in cultural foundations of education.

**Prerequisite:** Graduate standing.  
**Schedule Type:** Seminar  
**Contact Hours:** 1-3 lecture  
**Grade Mode:** Standard Letter

**CULT 69596 INDIVIDUAL INVESTIGATION IN CULTURAL FOUNDATIONS 1-3 Credit Hours**

(Repeatable for credit) (Slashed with CULT 89596) Students pursue an individual project on a specific topic in cultural foundations of education with approval and under direction of instructor.

**Prerequisite:** Graduate standing; and special approval.  
**Schedule Type:** Individual Investigation  
**Contact Hours:** 1-3 other  
**Grade Mode:** Satisfactory/Unsatisfactory-IP

**CULT 69598 RESEARCH IN CULTURAL FOUNDATIONS 1-15 Credit Hours**

(Repeatable for credit) (Slashed with CULT 89598) Students pursue an individual research project on a specific topic in cultural foundations of education with approval and under direction of instructor.

**Prerequisite:** Graduate standing; and special approval.  
**Schedule Type:** Research  
**Contact Hours:** 1-15 other  
**Grade Mode:** Satisfactory/Unsatisfactory-IP



**CULT 69691 VARIABLE CONTENT SEMINAR: GREAT IDEAS IN EDUCATION 3 Credit Hours**

(Repeatable for credit) (Slashed with CULT 89691) This course explores a great idea in education from multiple disciplinary perspectives (philosophical, sociological, historical) and looks at the ways in which the idea in question has shaped or could transform educational practice at multiple levels.

**Prerequisite:** Graduate standing.

**Schedule Type:** Seminar

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CULT 70093 VARIABLE TOPIC WORKSHOP IN CULTURAL FOUNDATIONS 1-4 Credit Hours**

(Repeatable for credit) (Slashed with CULT 40093 and CULT 50093) Offered on request of school system. Enrollment limited to teachers, administrators or supervisors who are employed in sponsoring system and who are accepted to the university. May be repeated once for total maximum credit of six hours.

**Prerequisite:** Doctoral standing; and special approval.

**Schedule Type:** Workshop

**Contact Hours:** 1-4 other

**Grade Mode:** Satisfactory/Unsatisfactory

**CULT 79510 CLASSICS IN PHILOSOPHY OF EDUCATION 3 Credit Hours**

(Repeatable for a maximum of 6 credit hours) (Slashed with CULT 69510) Philosophical exploration of the relationship between education and society and the dynamics of education through close reading and discussion of a selection of influential philosophical texts.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Seminar

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CULT 79530 MULTICULTURAL THEORIES AND SCHOLARSHIP IN EDUCATION 3 Credit Hours**

(Slashed with CULT 69530) An investigation of multicultural theories in education, the social sciences and humanities as articulated in the works of major scholars. Approaches to research and scholarship and contemporary issues in public discourse is explored.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Seminar

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CULT 79560 CONTEMPORARY PHILOSOPHY OF EDUCATION 3 Credit Hours**

(Slashed with CULT 69560) Explores a range of contemporary philosophical perspectives on the moral and political dimensions of education. Students will be introduced to the philosophical frameworks through which these questions are discussed within the field of philosophy of education and they will have opportunity to engage these debates in the course of carefully structured writing assignments.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Seminar

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CULT 79564 HISTORY OF AMERICAN EDUCATION 3 Credit Hours**

(Cross-listed with CULT 69564) European origins and American innovations in colonial education, rise of common school, completion of education ladder. Emphasis is on present status and recent developments.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Seminar

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CULT 79567 HISTORY OF HIGHER EDUCATION 3 Credit Hours**

(Slashed with CULT 69567) (Cross-listed with HIED 66600 and HIED 76600) Overview and exploration of history of higher education in the United States. Survey course covers ancient and medieval European antecedents but focuses largely on American Higher Education from the seventeenth through the 20th century. Students explore changes in student body, curricula and purposes of higher education in the U.S. in the context of American culture.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CULT 79569 INTERNATIONAL EDUCATION: FOUNDATIONAL ISSUES 3 Credit Hours**

(Slashed with CULT 69569) An introductory seminar to explore current foundational issues and challenges in education worldwide (nonformal, formal PK-advanced post-secondary education). Students gain an understanding of the socio-political, historical context of education worldwide and implications for local policy formation. An international-comparative approach connects and integrates cross-cultural literature, theoretical and research scholarship, on the impact of world dynamics on education. Students also explore the impact of education on economies and social compacts worldwide, with attention to inequalities or marginalities based on region, social status, ethnicity, race, religion, gender and disability. Gaining a broad understanding of the place of education in a rapidly changing world is essential for 21st century educational leadership and the formation of constructive policies for the future of both developed and developing countries.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Seminar

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CULT 79570 MULTICULTURAL EDUCATION: THEORY AND POLICY 3 Credit Hours**

(Slashed with CULT 69570) Theoretical foundations of cultural pluralism, structural marginalization processes, knowledge construction, equity pedagogy and praxis in intercultural relations, democratic change processes and policy addressing inequities in institutional practices.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Seminar

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CULT 79571 GLOBALIZATION AND EDUCATION 3 Credit Hours**

(Cross-listed with CULT 69571) A multi-disciplinary exploration of the impact of globalization/localization on the delivery and uses of education and the dynamics of power and resistance in globalized education.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Seminar

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CULT 79575 ANTHROPOLOGY AND EDUCATION 3 Credit Hours**  
(Slashed with CULT 69575) Students explore the contributions that cultural and social anthropologists have made to the study of education broadly conceived, focusing particularly on studies addressing the interrelationships among education, culture and forms of social inequity. Through engaging in critical readings of classic and contemporary educational ethnographies, students explore the myriad ways in which 'culture' had been theoretically conceptualized, as well as the implications of those conceptualizations for educational inquiry and practice.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Seminar

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CULT 80030 SOCIAL CONTEXTS OF EDUCATION: CONTEMPORARY ISSUES AND THEORY 3 Credit Hours**

(Slashed with CULT 80030) The course will explore contemporary social contexts of education through the lenses of major sociological perspectives, including seminal theoretical works and emerging contemporary scholarship. Students will become familiar with the uses of classic and current sociological theories in order to understand contemporary educational issues.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Seminar

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CULT 80050 HUMANITIES-ORIENTED RESEARCH IN EDUCATION 3 Credit Hours**

(Slashed with CULT 60050) Course is designed to give students an understanding of humanities-oriented approaches to research in education. This includes disciplinary approaches to the study of education (philosophy, history, literary theory) as well as humanities oriented theoretical work in the social sciences. Students will develop facility with key concepts as well as approaches to method and research design within these approaches.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Seminar

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CULT 80090 DOCTORAL RESIDENCY SEMINAR 3 Credit Hours**

Advanced doctoral residency seminar for students in all areas of educational foundations. Focus on current and emergent issues research and trends in education in multiple settings.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Seminar

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**CULT 80091 SEMINAR: GREAT ISSUES IN EDUCATION 1-3 Credit Hours**

(Repeatable for credit) Interdisciplinary review of current great issues in education that are catalogs for presentation after discussion with membership of the course.

**Prerequisite:** Open to doctoral students from any field.

**Schedule Type:** Seminar

**Contact Hours:** 1-3 other

**Grade Mode:** Standard Letter

**CULT 80199 DISSERTATION I 15 Credit Hours**

(Repeatable for credit) Doctoral dissertation for which registration in at least two semesters is required, first of which will be semester in which dissertation work is begun and continuing until the completion of 30 hours.

**Prerequisite:** Doctoral standing; and special approval.

**Schedule Type:** Dissertation

**Contact Hours:** 15 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**CULT 80299 DISSERTATION II 15 Credit Hours**

(Repeatable for credit) Continuing registration required of doctoral students who have completed the initial 30 hours of dissertation and continuing until all degree requirements are met.

**Prerequisite:** CULT 80199; and doctoral standing.

**Schedule Type:** Dissertation

**Contact Hours:** 15 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**CULT 85535 INTERPROFESSIONAL STUDIES 3 Credit Hours**

Comprehensive analysis of issues affecting professional practice in education and human service resource settings. Examination of questions related to interprofessional collaboration on policy, research and practice.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Seminar

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CULT 89521 MULTICULTURAL EDUCATIONAL PRACTICE AND POLICY 3 Credit Hours**

Interdisciplinary inquiry into issues of pluralism and its influence on professional practice in education and human service settings. Cross-cultural interaction will be analyzed; reflection on developing culturally responsive professional practice.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Seminar

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CULT 89522 ETHICS IN PROFESSIONAL PRACTICE 3 Credit Hours**

(Slashed with CULT 69522) An examination of ethics in schooling and other educational settings through foundational study and issue analysis; strong case study and professional application emphasis.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Seminar

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CULT 89571 COMPARATIVE AND INTERNATIONAL EDUCATION 3 Credit Hours**

Comparative analysis of contemporary educational policies and structures in large-and small scale societies throughout the world.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Seminar

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CULT 89581 PROSEMINAR IN CULTURAL FOUNDATIONS 3 Credit Hours**

Doctoral seminar to familiarize Ph.D. students with cultural and social foundations of education as a field of study so that they may locate their inquiry within the relevant knowledge base and academic disciplines that comprise the cultural foundations of education.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Seminar

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CULT 89582 SOCIAL THEORIES IN EDUCATION 3 Credit Hours**

(Slashed with CULT 69582) This course examines both classic and contemporary social theories in education. Students will become familiar with different social theories, specifically focusing on strengths and limitations of various theoretical approaches. Students will also analyze the role social theories have had upon educational research, and examine different conceptual issues within various social theoretical traditions.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Seminar

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CULT 89591 SEMINAR IN CULTURAL FOUNDATIONS 1-5 Credit Hours**

(Repeatable for credit) (Slashed with CULT 69591) Variable topic seminar for advanced study of specialized topics and areas in cultural foundations; emphasis on theory and research findings as related to educational practice.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Seminar

**Contact Hours:** 1-5 other

**Grade Mode:** Standard Letter

**CULT 89592 ADVANCED PRACTICUM AND INTERNSHIP IN CULTURAL FOUNDATIONS 2-6 Credit Hours**

(Repeatable for credit) (Slashed with CULT 69592) Supervised program in field setting involving application of theories, principles and methodology in cultural foundations of education; planned with and supervised by graduate faculty member.

**Prerequisite:** Doctoral standing; and special approval.

**Schedule Type:** Practical Experience

**Contact Hours:** 6-18 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**CULT 89595 SPECIAL TOPICS IN CULTURAL FOUNDATIONS 1-3 Credit Hours**

(Repeatable for credit) (Slashed with CULT 69595) Specific topic course offering in response to emerging student or program needs in cultural foundations of education.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Seminar

**Contact Hours:** 1-3 lecture

**Grade Mode:** Standard Letter

**CULT 89596 INDIVIDUAL INVESTIGATION IN CULTURAL FOUNDATIONS 1-3 Credit Hours**

(Repeatable for credit) (Slashed with CULT 69596) Students pursue an individual project on a specific topic in cultural foundations of education with approval and under direction of instructor.

**Prerequisite:** Doctoral standing; and special approval.

**Schedule Type:** Individual Investigation

**Contact Hours:** 1-3 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**CULT 89598 RESEARCH IN CULTURAL FOUNDATIONS 1-15 Credit Hours**

(Repeatable for credit) (Slashed with CULT 69598) Students pursue an individual research project on a specific topic in cultural foundations of education with approval and under direction of instructor.

**Prerequisite:** Doctoral standing; and special approval.

**Schedule Type:** Research

**Contact Hours:** 1-15 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**CULT 89691 VARIABLE CONTENT SEMINAR: GREAT IDEAS IN EDUCATION 3 Credit Hours**

(Repeatable for credit) (Slashed with CULT 69691) This course explores a great idea in education from multiple disciplinary perspectives (philosophical, sociological, historical) and looks at the ways in which the idea in question has shaped or could transform educational practice at multiple levels.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Seminar

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

## Educational Leadership K-12 (EDLE)

**EDLE 40093 VARIABLE TITLE WORKSHOP IN EDUCATIONAL ADMINISTRATION 1-5 Credit Hours**

(Repeatable for credit) (Slashed with EDLE 50093 and EDLE 70093)

**Prerequisite:** None.

**Schedule Type:** Workshop

**Contact Hours:** 1-5 other

**Grade Mode:** Satisfactory/Unsatisfactory

**EDLE 50093 VARIABLE TITLE WORKSHOP IN EDUCATIONAL ADMINISTRATION 1-5 Credit Hours**

(Repeatable for credit) (Slashed with EDLE 40093 and EDLE 70093) Variable title workshop in educational administration.

**Prerequisite:** Graduate standing.

**Schedule Type:** Workshop

**Contact Hours:** 1-5 other

**Grade Mode:** Satisfactory/Unsatisfactory

**EDLE 60199 THESIS I 2-6 Credit Hours**

Thesis students must register for a total of 6 hours, 2 to 6 hours in a single semester distributed over several semesters if desired.

**Prerequisite:** Graduate standing.

**Schedule Type:** Masters Thesis

**Contact Hours:** 2-6 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**EDLE 60299 THESIS II 2 Credit Hours**

Thesis students must continue registration each semester until all degree requirements are met.

**Prerequisite:** EDLE 60199; and graduate standing.

**Schedule Type:** Masters Thesis

**Contact Hours:** 2 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**EDLE 66492 INTERNSHIP IN EDUCATIONAL ADMINISTRATION 3-6 Credit Hours**

(Repeatable for a maximum of 6 credit hours) (Slashed with EDLE 76492)

A field-based internship utilizing an inquiry-based learning model, requiring projects as designated by the program area faculty. Specific topics are outlined and shared at meetings prior to beginning internship. Students are required to complete Bureau of Criminal Investigation and Identification (BCII) and Federal Bureau of Investigation (FBI) background checks and submit the results to authorized personnel at their assigned school-agency before the first day of the semester in which student teaching internship will take place.

**Prerequisite:** Graduate standing.

**Schedule Type:** Practical Experience

**Contact Hours:** 10-20 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**EDLE 66515 FACILITIES PLANNING AND ADMINISTRATION 3 Credit Hours**

(Slashed with EDLE 76515) Overview of facilities planning and administration, including architectural/ construction management, the educational program, restoration and maintenance.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**EDLE 66517 ADMINISTRATION AND SUPERVISION OF SPECIAL EDUCATION 3 Credit Hours**

(Slashed with EDLE 76517) Administration of educational programs for exceptional children: improvement of teacher competencies; function of special education supervisors; and special education operations at a local, state and national level.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**EDLE 66518 SCHOOL AND SPECIAL EDUCATION LAW 3 Credit Hours**

(Slashed with EDLE 76518) Constitutional, statutory, and case law involving schools, special and regular education students, administrators, parents and others are studied.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**EDLE 66520 SCHOOL LAW FOR TEACHERS AND PRINCIPALS 3 Credit Hours**

(Slashed with EDLE 76520) Selected principles of constitutional, statutory case and common law affecting the administration of schools generally and Ohio schools specifically.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**EDLE 66522 PUBLIC SCHOOL FINANCE AND ECONOMICS 3 Credit Hours**

(Slashed with EDLE 76522) Analysis of national, state and local problems of collection custody and expenditure of public school funds.

**Prerequisite:** EDLE 66526; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**EDLE 66525 THE EDUCATIONAL PRINCIPALSHIP 3 Credit Hours**

(Slashed with EDLE 76525) Organizing and administering elementary, middle level and secondary schools.

**Prerequisite:** EDLE 66526 or EDLE 76526; 16 hrs of EDLE; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**EDLE 66526 FUNDAMENTALS OF EDUCATIONAL ADMINISTRATION 3 Credit Hours**

(Slashed with EDLE 76526) Examines theory and practice essential for administration. Skills and understanding are developed in theory goal setting staff development.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**EDLE 66527 SCHOOL FINANCE FOR BUILDING ADMINISTRATORS 3 Credit Hours**

(Slashed with EDLE 76527) Identification of the responsibilities of the school building administrator related to all financial operations in the school building; included are the budget process and development, student accounts, the purchase order process and fund raising and school groups.

**Prerequisite:** Major in Educational Leadership K-12, Higher Education Administration and Student Affairs or Higher Education Administration; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**EDLE 66529 LEADING FOR SOCIAL JUSTICE 3 Credit Hours**

(Slashed with EDLE 76529) Centers on investigating a broad research agenda on leading for social justice within educational leadership.

Provides a context for candidates to establish strong connections between what it means to lead and the primary concerns for learning and equity, which are associated with increased performance and effectiveness for American education. Candidates engage in concepts such as equity audits, border culture, hegemony, moral transformation and other concepts aligned with leading 21st century schools. Such concepts encourage school leaders to reconsider the influence of wider social, political, cultural and economic contexts in creating transformative and revolutionary schools.

**Prerequisite:** Graduate standing.

**Schedule Type:** Field Experience, Lecture

**Contact Hours:** 2 lecture, 1 other

**Grade Mode:** Standard Letter

**EDLE 66531 INSTRUCTIONAL LEADERSHIP 3 Credit Hours**

(Slashed with EDLE 76531) Focuses on the administrative role pertaining to the leadership, management, and evaluation of quality and effective school classroom instruction. Building administrators are responsible for providing the resource for effective instruction, which result in student learning. The key to effective instruction at any level requires a solid grounding in curriculum theory and design. Designed to provide the tools that administrators need to oversee the development, production, monitoring and evaluation of instructional methods and strategies.

**Prerequisite:** Graduate standing.

**Schedule Type:** Field Experience, Lecture

**Contact Hours:** 2 lecture, 1 other

**Grade Mode:** Standard Letter



**EDLE 66533 CENTRAL OFFICE ADMINISTRATION: CURRICULUM AND PUPIL SERVICES 3 Credit Hours**

(Slashed with EDLE 76533) Analyzes roles and responsibilities of central office personnel with an emphasis on curriculum, pupil, and support services as impacted by current educational policy, and practice and focused on impacting the achievement of all students.

**Prerequisite:** Graduate standing.

**Schedule Type:** Field Experience, Lecture

**Contact Hours:** 1.75 lecture, 1.25 other

**Grade Mode:** Standard Letter

**EDLE 66534 THE SUPERINTENDENCY 3 Credit Hours**

(Slashed with EDLE 76534) Focuses on major responsibilities of board of education and superintendent.

**Prerequisite:** EDLE 66526 or EDLE 76526; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**EDLE 66536 THE ADMINISTRATOR'S ROLE IN CURRICULUM DEVELOPMENT 3 Credit Hours**

(Slashed with EDLE 76536) Focusing on the administrative role pertaining to the development, management and evaluation of a quality and effective district school classroom curriculum.

**Prerequisite:** Major in Educational Leadership K-12, Higher Education Administration and Student Affairs or Higher Education Administration; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**EDLE 66538 ADMINISTRATION OF SCHOOL CULTURE, POLITICS AND REFORMS 3 Credit Hours**

(Slashed with EDLE 76538) Focuses on administrative roles in assessing, leading, developing and reforming school culture. Centers on building and district administrators, who are responsible for providing the cultural frameworks and context of school culture through politics and reform efforts. The key to effective school reform requires a solid understanding of micropolitics as well as policy and practice at a state and national level. Designed to provide educational leaders with tools to assess school and district-wide cultural practices and norms as well as the skill sets to disrupt and change them.

**Prerequisite:** Graduate standing.

**Schedule Type:** Field Experience, Lecture

**Contact Hours:** 1.75 lecture, 1.25 other

**Grade Mode:** Standard Letter

**EDLE 66540 WOMEN IN LEADERSHIP 3 Credit Hours**

(Slashed with EDLE 76540) An interactive study of women's development and its effect on their dispositions toward leadership. Provides theoretical contract to traditional management theory.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**EDLE 66542 PRINCIPLES AND TECHNIQUES OF SUPERVISION AND SPECIAL EDUCATION 3 Credit Hours**

(Slashed with EDLE 76542) Principles and techniques needed by administrative specialists and supervisors (curriculum, pupil services, special education) are given. Research findings include changing human relations, change leadership, legal implications, group process, communication, coordination, management, observations, and conferencing skills.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**EDLE 66543 SCHOOL ADMINISTRATION IN URBAN SETTINGS 3 Credit Hours**

(Slashed with EDLE 76543) This course is designed to provide students with opportunities to discuss and investigate the unique challenges of leading inner-city schools. Issues of focus include transportation, staffing, extracurricular support for students and more.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**EDLE 66544 COMMUNITY RELATIONS AND COMMUNICATION SKILLS 3 Credit Hours**

(Slashed with EDLE 76544) Centers on encouraging school leaders to consider the way in which children's learning is influenced by behaviors and perspectives of family members, school personnel and members of the larger community. Educators and school leaders have much to gain by deepening their understanding of how students learn from their family and cultural backgrounds, which fosters more inclusive school practices. Candidates investigate the influence of such collaborations and their role in upholding the ethical responsibility to promote children's welfare.

**Prerequisite:** Graduate standing.

**Schedule Type:** Field Experience, Lecture

**Contact Hours:** 1.75 lecture, 1.25 other

**Grade Mode:** Standard Letter

**EDLE 66591 SEMINAR IN EDUCATIONAL ADMINISTRATION 1-4 Credit Hours**

(Repeatable for credit) Seminar in educational administration.

**Prerequisite:** Graduate standing.

**Schedule Type:** Seminar

**Contact Hours:** 1-4 other

**Grade Mode:** Standard Letter

**EDLE 66595 SPECIAL TOPICS IN EDUCATIONAL ADMINISTRATION 1-3 Credit Hours**

(Repeatable for credit) (Slashed with EDLE 76595) Specialized offerings in response to emerging or selected program needs.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 1-3 lecture

**Grade Mode:** Standard Letter

**EDLE 66596 INDIVIDUAL INVESTIGATION IN EDUCATIONAL ADMINISTRATION 2-4 Credit Hours**

(Repeatable for credit) (Slashed with EDLE 76596) Projects as assigned.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Individual Investigation

**Contact Hours:** 2-4 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP



**EDLE 66598 RESEARCH IN EDUCATIONAL ADMINISTRATION 2-8 Credit Hours**

(Repeatable for credit) Projects as assigned.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Research

**Contact Hours:** 2-8 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**EDLE 66602 TECHNOLOGY LEADERSHIP IN EDUCATION 3 Credit Hours**

(Slashed with EDLE 76602) Prepares educational administrators to be leaders in the advancement of the appropriate integration of technology. Current and prospective administrators increase their understanding of how technology can be used as a tools for teaching, learning, assessment, management, planning and communications. The development and implementations of vision for educational technology is addressed, as well as social and ethical issues.

**Prerequisite:** Graduate standing.

**Schedule Type:** Field Experience, Lecture

**Contact Hours:** 2.25 lecture, .75 other

**Grade Mode:** Standard Letter

**EDLE 66747 PERSONNEL 3 Credit Hours**

(Slashed with EDLE 76747) Administration of education staff at building and central office levels; scope and depth of supervisory responsibilities and development of evaluation techniques.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**EDLE 66750 COACHING AND MENTORING FOR TEACHER LEADERS 3 Credit Hours**

Focuses on developing the knowledge, skills, and dispositions necessary for teacher leaders to provide high levels of effective coaching and mentoring for improving teaching practices and learning for all students. Specific approaches related to mentoring, coaching and per assistance will be examined and practiced.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**EDLE 66751 INSTRUCTIONAL LEADERSHIP FOR TEACHER LEADERS 3 Credit Hours**

This course provides the tools that teacher leaders need to engage in the development, production, monitoring and evaluation of instructional methods and strategies.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**EDLE 70093 VARIABLE TITLE WORKSHOP IN EDUCATIONAL ADMINISTRATION 1-5 Credit Hours**

(Repeatable for credit) (Slashed with EDLE 40093 and EDLE 50093) Variable title workshop in EDAD.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Workshop

**Contact Hours:** 1-5 other

**Grade Mode:** Satisfactory/Unsatisfactory

**EDLE 76492 INTERNSHIP IN EDUCATIONAL ADMINISTRATION 3-6 Credit Hours**

(Repeatable for a maximum of 6 credit hours) (Slashed with EDLE 76492)

A field-based internship utilizing an inquiry-based learning model, requiring projects as designated by the program area faculty. Specific topics are outlined and shared at meetings prior to beginning internship. Students are required to complete Bureau of Criminal Investigation and Identification (BCII) and Federal Bureau of Investigation (FBI) background checks and submit the results to authorized personnel at their assigned school-agency before the first day of the semester in which student teaching internship will take place.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Practical Experience

**Contact Hours:** 10-20 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**EDLE 76515 FACILITIES PLANNING AND ADMINISTRATION 3 Credit Hours**

(Slashed with EDLE 66515) Overview of facilities planning and administration, including architectural/ construction management, the educational program, restoration and maintenance.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**EDLE 76517 ADMINISTRATION AND SUPERVISION OF SPECIAL EDUCATION 3 Credit Hours**

(Slashed with EDLE 66517) Administration of educational programs for exceptional children: improvement of teacher competencies; function of special education supervisors; and special education operations at a local, state, and national level.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**EDLE 76518 SCHOOL AND SPECIAL EDUCATION LAW 3 Credit Hours**

(Slashed with EDLE 66518) Constitutional, statutory, and case law involving schools, special and regular education students, administrators, parents and others are studied.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**EDLE 76520 SCHOOL LAW FOR TEACHERS AND PRINCIPALS 3 Credit Hours**

(Slashed with EDLE 66520) Selected principles of constitutional, statutory, case and common law affecting the administration of schools generally and Ohio schools specifically.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**EDLE 76522 PUBLIC SCHOOL FINANCE AND ECONOMICS 3 Credit Hours**

(Slashed with EDLE 66522) Analysis of national, state and local problems of collection custody and expenditure of public school funds.

**Prerequisite:** EDLE 76526; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**EDLE 76525 THE EDUCATIONAL PRINCIPALSHIP 3 Credit Hours**  
(Slashed with EDLE 66525) Organizing and administering elementary, middle level and secondary schools.

**Prerequisite:** EDLE 66526 or EDLE 76526; 16 credit hours of EDLE; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**EDLE 76526 FUNDAMENTALS OF EDUCATIONAL ADMINISTRATION 3 Credit Hours**

(Slashed with EDLE 66526) Examines theory and practice essential for administration. Skills and understanding are developed in theory goal setting staff development.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**EDLE 76527 SCHOOL FINANCE FOR BUILDING ADMINISTRATORS 3 Credit Hours**

(Slashed with EDLE 66527) Identification of the responsibilities of the school building administrator related to all financial operations in the school building; included are the budget process and development, student accounts, the purchase order process, and fund raising and school groups.

**Prerequisite:** Major in Educational Leadership K-12 or Higher Education Administration; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**EDLE 76529 LEADING FOR SOCIAL JUSTICE 3 Credit Hours**

(Slashed with EDLE 66529) Centers on investigating a broad research agenda on leading for social justice within educational leadership. Provides a context for candidates to establish strong connections between what it means to lead and the primary concerns for learning and equity, which are associated with increased performance and effectiveness for American education. Candidates engage in concepts such as equity audits, border culture, hegemony, moral transformation and other concepts aligned with leading 21st century schools. Such concepts encourage school leaders to reconsider the influence of wider social, political, cultural and economic contexts in creating transformative and revolutionary schools.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Field Experience, Lecture

**Contact Hours:** 2 lecture, 1 other

**Grade Mode:** Standard Letter

**EDLE 76531 INSTRUCTIONAL LEADERSHIP 3 Credit Hours**

(Slashed with EDLE 66531) Focuses on the administrative role pertaining to the leadership, management, and evaluation of quality and effective school classroom instruction. Building administrators are responsible for providing the resource for effective instruction, which result in student learning. The key to effective instruction at any level requires a solid grounding in curriculum theory and design. Designed to provide the tools that administrators need to oversee the development, production, monitoring and evaluation of instructional methods and strategies.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Field Experience, Lecture

**Contact Hours:** 2 lecture, 1 other

**Grade Mode:** Standard Letter

**EDLE 76533 CENTRAL OFFICE ADMINISTRATION 3 Credit Hours**

(Slashed with EDLE 66533) Analyzes roles and responsibilities of central office personnel with an emphasis on curriculum, pupil, and support services as impacted by current educational policy, and practice and focused on impacting the achievement of all students.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Field Experience, Lecture

**Contact Hours:** 1.75 lecture, 1.25 other

**Grade Mode:** Standard Letter

**EDLE 76534 THE SUPERINTENDENCY 3 Credit Hours**

(Slashed with EDLE 66534) Focuses on major responsibilities of board of education and superintendent.

**Prerequisite:** EDLE 66526 or EDLE 76526; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**EDLE 76536 THE ADMINISTRATOR'S ROLE IN CURRICULUM DEVELOPMENT 3 Credit Hours**

(Slashed with EDLE 66536) Focusing on the administrative role pertaining to the development, management and evaluation of a quality and effective district/school/classroom curriculum.

**Prerequisite:** Major in Educational Leadership K-12; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**EDLE 76538 ADMINISTRATION OF SCHOOL CULTURE, POLITICS AND REFORM 3 Credit Hours**

(Slashed with EDLE 66538) Focuses on administrative roles in assessing, leading, developing and reforming school culture. Centers on building and district administrators, who are responsible for providing the cultural frameworks and context of school culture through politics and reform efforts. The key to effective school reform requires a solid understanding of micropolitics as well as policy and practice at a state and national level. Designed to provide educational leaders with tools to assess school and district-wide cultural practices and norms as well as the skill sets to disrupt and change them.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Field Experience, Lecture

**Contact Hours:** 1.75 lecture, 1.25 other

**Grade Mode:** Standard Letter

**EDLE 76540 WOMEN IN LEADERSHIP 3 Credit Hours**

(Slashed with EDLE 66540) An interactive study of women's development and its effect on their dispositions toward leadership. Provides theoretical contract to traditional management theory.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**EDLE 76542 PRINCIPLES AND TECHNIQUES OF SUPERVISION AND SPECIAL EDUCATION 3 Credit Hours**

(Slashed with EDLE 66542) Principles and techniques needed by administrative specialists and supervisors (curriculum, pupil services, special education) are given. Research findings include changing human relations, change leadership, legal implications, group process, communication, coordination, management, observations, and conferencing skills.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**EDLE 76543 SCHOOL ADMINISTRATION IN URBAN SETTINGS 3 Credit Hours**

(Slashed with EDLE 66543) This course is designed to provide students with opportunities to discuss and investigate the unique challenges of leading inner-city schools. Issues of focus include transportation, staffing, extracurricular support for students and more.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**EDLE 76544 COMMUNITY RELATIONS AND COMMUNICATION SKILLS 3 Credit Hours**

(Slashed with EDLE 66544) Centers on encouraging school leaders to consider the way in which children's learning is influenced by behaviors and perspectives of family members, school personnel and members of the larger community. Educators and school leaders have much to gain by deepening their understanding of how students learn from their family and cultural backgrounds, which fosters more inclusive school practices. Candidates investigate the influence of such collaborations and their role in upholding the ethical responsibility to promote children's welfare.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Field Experience, Lecture

**Contact Hours:** 1.75 lecture, 1.25 other

**Grade Mode:** Standard Letter

**EDLE 76595 SPECIAL TOPICS IN EDUCATIONAL ADMINISTRATION 1-3 Credit Hours**

(Repeatable for credit) (Slashed with EDLE 66595) Specialized offerings in response to emerging or selected program needs.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 1-3 lecture

**Grade Mode:** Standard Letter

**EDLE 76596 INDIVIDUAL INVESTIGATION IN EDUCATIONAL ADMINISTRATION 2-4 Credit Hours**

(Repeatable for credit) (Slashed with EDLE 66596) Projects as assigned.

**Prerequisite:** Doctoral standing; and special approval.

**Schedule Type:** Individual Investigation

**Contact Hours:** 2-4 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**EDLE 76602 TECHNOLOGY LEADERSHIP IN EDUCATION 3 Credit Hours**

(Slashed with EDLE 66602) Prepares educational administrators to be leaders in the advancement of the appropriate integration of technology. Current and prospective administrators increase their understanding of how technology can be used as a tools for teaching, learning, assessment, management, planning and communications. The development and implementations of vision for educational technology is addressed, as well as social and ethical issues.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Field Experience, Lecture

**Contact Hours:** 2.25 lecture, .75 other

**Grade Mode:** Standard Letter

**EDLE 76747 PERSONNEL 3 Credit Hours**

(Slashed with EDLE 66747) Administration of education staff at building and central office levels; scope and depth of supervisory responsibilities and development of evaluation techniques.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**EDLE 80080 DISSERTATION PREPARATION SEMINAR 3 Credit Hours**

Gain an in-depth understanding of the dissertation-writing process.

Complete a dissertation proposal.

**Prerequisite:** Doctoral standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**EDLE 80199 DISSERTATION I 15 Credit Hours**

(Repeatable for credit) Doctoral dissertation for which registration in at least two semesters is required, first of which will be semester in which dissertation work is begun and continuing until the completion of 30 hours.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Dissertation

**Contact Hours:** 15 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**EDLE 80299 DISSERTATION II 15 Credit Hours**

(Repeatable for credit) Continuing registration required of doctoral students who have completed the initial 30 hours of dissertation and continuing until all degree requirements are met.

**Prerequisite:** EDLE 80199; and doctoral standing.

**Schedule Type:** Dissertation

**Contact Hours:** 15 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**EDLE 86591 SEMINAR IN EDUCATIONAL ADMINISTRATION 1-4 Credit Hours**

(Repeatable for credit) Seminar in EDAD.

**Prerequisite:** Doctoral standing; and special approval.

**Schedule Type:** Seminar

**Contact Hours:** 1-4 other

**Grade Mode:** Standard Letter

**EDLE 86598 RESEARCH IN EDUCATIONAL ADMINISTRATION 2-8 Credit Hours**

(Repeatable for credit) Projects as assigned.

**Prerequisite:** Doctoral standing; and special approval.

**Schedule Type:** Research

**Contact Hours:** 2-8 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

## Educational Studies (EDST)

### EDST 40095 SPECIAL TOPICS IN EDUCATIONAL STUDIES 1-3 Credit Hours

(Course is repeatable) Selected topics in Educational Studies dependent upon interest.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 1-3 lecture

**Grade Mode:** Standard Letter

### EDST 40096 INDIVIDUAL INVESTIGATION IN EDUCATIONAL STUDIES PROGRAM 1-3 Credit Hours

(Course is repeatable) Independent study completed under the supervision of a faculty member. Written approval of supervising faculty member required prior to registration.

**Prerequisite:** Special approval.

**Schedule Type:** Individual Investigation

**Contact Hours:** 1-3 other

**Grade Mode:** Standard Letter-IP

### EDST 44003 SEMINAR IN EDUCATIONAL STUDIES 3 Credit Hours

Directed discussion applying concepts from previous educational coursework and internships or prior work experience.

**Prerequisite:** Senior standing.

**Schedule Type:** Seminar

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter-IP

### EDST 44004 RESEARCH AND WRITINGS IN EDUCATIONAL STUDIES (WIC) 3 Credit Hours

This course presents and integrates the role of professionals in the Education, Health and Human Services fields as they attempt to meet the needs of individuals in diverse environments.

**Prerequisite:** Senior standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter-IP

**Attributes:** Writing Intensive Course

### EDST 44092 PRACTICUM IN EDUCATIONAL STUDIES (ELR) 1-12 Credit Hours

(Course is repeatable for a maximum of 12 credit hours) Placement in a work site congruent with student's career aspirations.

**Prerequisite:** Educational Studies majors; and senior standing; and special approval.

**Schedule Type:** Practical Experience

**Contact Hours:** 1-12 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**Attributes:** Experiential Learning Requirement

## Evaluation and Measurement (EVAL)

### EVAL 45610 CLASSROOM ASSESSMENT 3 Credit Hours

(Slashed with EVAL 55610 and EVAL 75610) Instruction on contemporary and classic theories and issues in classroom assessment. Students learn about the purposes and strengths of informal and formal, traditional and alternative approaches to classroom assessment. Students examine both selected response assessments and constructed response assessments, develop assessment frameworks, identify alternative models of assessments, evaluate best practices in classroom assessment, and discuss respective advantages and disadvantages of multiple kinds of assessments.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

### EVAL 50093 VARIABLE TOPIC WORKSHOP EVALUATION AND MEASUREMENT 1-4 Credit Hours

(Repeatable once for a maximum of 6 credit hours) (Slashed with EVAL 70093) Offered on request of school system. Enrollment limited to teachers, administrators or supervisors who are employed in sponsoring system and who are accepted to the university.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Workshop

**Contact Hours:** 1-4 other

**Grade Mode:** Satisfactory/Unsatisfactory

### EVAL 55610 CLASSROOM ASSESSMENT 3 Credit Hours

(Slashed with EVAL 45610 and EVAL 75610) Instruction on contemporary and classic theories on and issues in classroom assessment. Students will learn about the purposes and strengths of informal and formal, traditional and alternative approaches to classroom assessment. Students will examine both selected response assessments and constructed response assessments, develop assessment frameworks, identify alternative models of assessments, evaluate best practices in classroom assessment, and discuss respective advantages and disadvantages of multiple kinds of assessments.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

### EVAL 60199 THESIS I 2-6 Credit Hours

Thesis student must register for total of 6 hours, 2 to 6 hours in a single semester distributed over several semesters if desired.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Masters Thesis

**Contact Hours:** 2-6 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

### EVAL 60299 THESIS II 2 Credit Hours

Thesis students must continue registration each semester until all degree requirements are met.

**Prerequisite:** EVAL 60199; and graduate standing.

**Schedule Type:** Masters Thesis

**Contact Hours:** 2 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**EVAL 65510 STATISTICS I FOR EDUCATIONAL SERVICES 3 Credit Hours**

(Slashed with EVAL 75510) Introduction to descriptive and inferential statistics used in educational services research: univariate and bivariate techniques (correlations and simple regression); hypothesis testing; non-parametric techniques. Ordinarily taken in graduate course sequence.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**EVAL 65511 RESEARCH IN EDUCATIONAL SERVICES 3 Credit Hours**

Introduction to purposes and practice of qualitative and quantitative research related to educational services. Emphasis on elements of doing research and using products of research to support and enhance practice. Authentic examples used as illustration.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**EVAL 65515 QUANTITATIVE RESEARCH DESIGN AND ANALYSIS 3 Credit Hours**

(Slashed with EVAL 85515) Introduction to quantitative research design and analysis in the social sciences. Students are introduced to various concerns and issues that arise in conducting quantitative research, as well as various quantitative research designs, including experimental, quasi-experimental, and non-experimental research approaches. Students will also learn to critically examine quantitative research reports in terms of reliability and validity. Additionally, students will be introduced to analysis of variance (ANOVA) procedures for analyzing quantitative research designs.

**Prerequisite:** EVAL 65510; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**EVAL 65516 QUALITATIVE RESEARCH DESIGN 3 Credit Hours**

(Slashed with EVAL 85516) Introduction to qualitative research approaches, design, and methods. Students learn about the theoretical underpinnings, nature, characteristics, and methods of qualitative research. Students are introduced to several types of qualitative research designs. They learn to engage in critical reading of qualitative research reports. Students also learn to design qualitative research studies.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**EVAL 65522 BASICS OF QUALITATIVE INTERVIEWING 1 Credit Hour**

(Slashed with EVAL 75522) Specialized interviewing methods and techniques prior to engaging in qualitative research.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 1 lecture

**Grade Mode:** Standard Letter

**EVAL 65530 PRACTITIONER INQUIRY 3 Credit Hours**

(Slashed with EVAL 85530) This course prepares students to engage in practitioner research. It provides an overview of the history, theoretical, ethical, and practical issues related to engaging in practitioner work in a variety of fields. Research design, data collection and analysis are explored and practiced. Students will critique practitioner research and design their own practitioner research study.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**EVAL 65533 INTRODUCTION TO NARRATIVE INQUIRY AND ANALYSIS 1 Credit Hour**

(Slashed with EVAL 75533) This course will introduce students to the "rapidly maturing" methodology, providing a foundational exploration of narrative techniques, the craft of good academic writing, and a practice of narrative analysis.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 1 lecture

**Grade Mode:** Standard Letter-IP

**EVAL 68710 CLASSICAL TEST THEORY 3 Credit Hours**

(Slashed with EVAL 78710) Students develop an understanding of ideas and procedures related to classical test theory sufficient for test development and meaningful interpretation of results from standardized tests and other assessments.

**Prerequisite:** EVAL 65510; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**EVAL 68711 MODERN TEST THEORY: ITEM RESPONSE THEORY 3 Credit Hours**

(Slashed with EVAL 78711) The primary objective of the course is to provide students with knowledge and skills necessary to use item response theory methods and to organize, manipulate, analyze and interpret data from IRT applications. Some of the popular IRT computer programs are introduced.

**Prerequisite:** EVAL 65510; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**EVAL 68713 MULTIVARIATE ANALYSIS IN EDUCATIONAL RESEARCH 3 Credit Hours**

(Slashed with EVAL 78713) Objectives are to enable students to select and use multivariate methods appropriately, to develop knowledge and skills necessary to conduct multivariate analyses using various statistical packages (SPSS, SAS) and to develop knowledge and skills necessary for interpreting results of multivariate analysis.

**Prerequisite:** EVAL 65510; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter



**EVAL 68714 FACTOR ANALYSIS IN EDUCATIONAL RESEARCH 3 Credit Hours**

(Slashed with EVAL 78714) This course develops the ability of students to conceptualize and apply the logic and techniques of factor analysis. The focus is on both exploratory and confirmatory procedures.

**Prerequisite:** EVAL 65510; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**EVAL 68715 SURVEY DESIGN AND APPLIED RESEARCH IN EDUCATION 3 Credit Hours**

Designed to be an introduction to survey design including the use of online survey applications data collection and will focus on applied quantitative research using SPSS. Open to any graduate students with appropriate prerequisite courses and an interest in applied quantitative research. The project-based course has two major components: survey construction and applied research. Students will perform tasks typically requested of data analysts, institutional researchers, and program evaluators including but not limited to SPSS data management, data transformations, descriptive and inferential analysis, and interpretation of results.

**Prerequisite:** EVAL 65510; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**EVAL 68716 STATISTICS II: ANOVA AND NONPARAMETRIC TESTS 3 Credit Hours**

The primary objective of the course is to develop students' understanding of statistical concepts and procedures sufficient for both conducting appropriate statistical analysis and interpreting the results. Authentic research examples are used throughout the course as illustrations of the different methods of conducting statistical analyses for the social sciences. This course is designed to lead students to become informed consumers of intermediate level statistical analyses, specifically analysis of variance (ANOVA) procedures, used in the social sciences.

**Prerequisite:** EVAL 65510; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**EVAL 68728 MULTIPLE REGRESSION 3 Credit Hours**

(Slashed with EVAL 78728) The purpose of this course is to develop an understanding of use of multiple regression in the social sciences and related issues, including examining assumptions, diagnosis of outliers and influential data points, determining statistical power, testing for moderation and mediation, etc. The course begins with an introduction to simple models with two predictor variables, and continues to more advanced models, including those with three or more variables, categorical predictors, interactions, non-linear models, and logistic regression.

**Prerequisite:** EVAL 65510; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**EVAL 68735 STRUCTURAL EQUATION MODELING 3 Credit Hours**

(Slashed with EVAL 78735) The purpose of this course is to develop an understanding of the basic concepts of structural equation modeling and the use of path analysis, confirmatory factor analysis, bi-factor and second-order CFA, multitrait-multimethod analysis, multiple sample-multiple group SEM, latent class model, and latent growth modeling covered under the theoretical framework of structural equation modeling. The course familiarizes students with these methods in order to (a) critique a research study with respect to the statistical analysis, and (b) select an appropriate model and be able to apply it.

**Prerequisite:** EVAL 65510 and EVAL 68728; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**EVAL 68745 HIERARCHICAL LINEAR MODELING 3 Credit Hours**

(Slashed with EVAL 78745) This course introduces methods for the analysis of multilevel data and emphasizes practical, hands-on development, analysis and interpretation of hierarchical linear models. Applications will be drawn from education, psychology, other social sciences, and health-related disciplines. Topic coverage includes development of multilevel models, estimation, hypothesis testing, statistical inference, model assessment and residual diagnostics, centering options and impact, treatment of heterogeneity, and introduction to longitudinal analysis via multilevel models.

**Prerequisite:** EVAL 65510 and EVAL 68728; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**EVAL 68791 SEMINAR IN EVALUATION AND MEASUREMENT 1-5 Credit Hours**

(Repeatable for credit) Variable topic seminar for advance study of specialized topics and areas in evaluation and measurement; emphasis on theory and research findings as related to educational practice.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Seminar

**Contact Hours:** 1-5 other

**Grade Mode:** Standard Letter

**EVAL 68795 SPECIAL TOPICS IN EVALUATION AND MEASUREMENT 1-3 Credit Hours**

(Repeatable for credit) Specific topic course offering in response to emerging student or program needs in evaluation and measurement.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 1-3 lecture

**Grade Mode:** Standard Letter

**EVAL 68796 INDIVIDUAL INVESTIGATION IN EVALUATION AND MEASUREMENT 1-3 Credit Hours**

(Repeatable for credit) Specific topic course offering in response to emerging student or program needs in evaluation and measurement.

**Prerequisite:** Doctoral standing; and special approval.

**Schedule Type:** Individual Investigation

**Contact Hours:** 1-3 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**EVAL 68798 RESEARCH IN EVALUATION AND MEASUREMENT 1-15 Credit Hours**

(Repeatable for credit) Students pursue an individual research project on a specific topic in evaluation and measurement with approval and under direction of instructor.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Research

**Contact Hours:** 1-15 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**EVAL 68806 HIGHER EDUCATION DATA AND INSTITUTIONAL RESEARCH 3 Credit Hours**

(Slashed with EVAL 78806) This course is designed to be an overview of institutional research function and practice, introducing students to the purpose and history of IR, IR terminology and metrics, and IR application to a variety of university areas. The target audiences for this course are: 1) students with an evaluation and measurement background who are interested in applying their skills in a higher education context and 2) students from a higher education and or student affairs background who are looking to better understand higher education data and the applied research that occurs within an institution.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**EVAL 68807 PROGRAM EVALUATION 3 Credit Hours**

(Slashed with EVAL 78807) Study of principles and techniques of evaluation and measurement, and utilization of evidence to improve teaching, learning and implementation programs.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**EVAL 70093 VARIABLE TOPIC WORKSHOP IN EVALUATION AND MEASUREMENT 1-4 Credit Hours**

(Repeatable for credit) (Slashed with EVAL 50093) Offered on request of school system. Enrollment limited to teachers, administrators or supervisors who are employed in sponsoring system and who are accepted to the university.

**Prerequisite:** Doctoral standing; and special approval.

**Schedule Type:** Workshop

**Contact Hours:** 1-4 other

**Grade Mode:** Satisfactory/Unsatisfactory

**EVAL 75510 STATISTICS I FOR EDUCATIONAL SERVICES 3 Credit Hours**

(Slashed with EVAL 65510) Introduction to descriptive and inferential statistics used in educational services research: univariate and bivariate techniques (correlations and simple regression); hypothesis testing; non-parametric techniques. Ordinarily taken in graduate course sequence.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**EVAL 75522 BASICS OF QUALITATIVE INTERVIEWING 1 Credit Hour**

(Slashed with EVAL 65522) Specialized interviewing methods and techniques prior to engaging in qualitative research.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 1 lecture

**Grade Mode:** Standard Letter

**EVAL 75533 INTRODUCTION TO NARRATIVE INQUIRY AND ANALYSIS 1 Credit Hour**

(Slashed with EVAL 65533) This course will introduce students to the "rapidly maturing" methodology, providing a foundational exploration of narrative techniques, the craft of good academic writing, and a practice of narrative analysis.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 1 lecture

**Grade Mode:** Standard Letter-IP

**EVAL 75550 INTRODUCTION TO QUANTITATIVE RESEARCH IN EDUCATION 3 Credit Hours**

This course provides an introduction to the purposes, practices, and applications of quantitative research in the field of education. The course focuses on foundational knowledge related to the methods used for conducting quantitative research, evaluating quantitative research, and using products of research to support and enhance practice. Authentic examples are used as illustrations throughout the course. The course is designed to allow students to become informed consumers of quantitative research in education.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**EVAL 75610 CLASSROOM ASSESSMENT 3 Credit Hours**

(Slashed with EVAL 45610 and EVAL 55610) Instruction on contemporary and classic theories and issues in classroom assessment. Students will learn about the purposes and strengths of informal and formal, traditional and alternative approaches to classroom assessment. Students will examine both selected response assessments and constructed response assessments, develop assessment frameworks, identify alternative models of assessments, evaluate best practices in classroom assessment, and discuss respective advantages and disadvantages of multiple kinds of assessments.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**EVAL 78710 CLASSICAL TEST THEORY 3 Credit Hours**

(Slashed with EVAL 68710) Students develop an understanding of ideas and procedures related to classical test theory sufficient for test development and meaningful interpretation of results from standardized tests and other assessments.

**Prerequisite:** EVAL 65510; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**EVAL 78711 MODERN TEST THEORY: ITEM RESPONSE THEORY 3 Credit Hours**

(Slashed with EVAL 68711) The primary objective of the course is to provide students with knowledge and skills necessary to use item response theory methods and to organize, manipulate, analyze and interpret data from IRT applications. Some of the popular IRT computer programs are introduced.

**Prerequisite:** EVAL 75510; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**EVAL 78713 MULTIVARIATE ANALYSIS IN EDUCATIONAL RESEARCH 3 Credit Hours**

(Slashed with EVAL 68713) Objectives are to enable students to select and use multivariate methods appropriately, to develop knowledge and skills necessary to conduct multivariate analyses using various statistical packages (SPSS, SAS) and to develop knowledge and skills necessary for interpreting results of multivariate analysis.

**Prerequisite:** EVAL 75510; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**EVAL 78714 FACTOR ANALYSIS IN EDUCATIONAL RESEARCH 3 Credit Hours**

(Slashed with EVAL 68714) This course develops the ability of students to conceptualize and apply the logic and techniques of factor analysis. The focus is on both exploratory and confirmatory procedures.

**Prerequisite:** EVAL 75510; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**EVAL 78715 SURVEY DESIGN AND APPLIED RESEARCH IN EDUCATION 3 Credit Hours**

Designed to be an introduction to survey design including the use of online survey applications data collection and will focus on applied quantitative research using SPSS. Open to any graduate students with appropriate prerequisite courses and an interest in applied quantitative research. The project-based course has two major components: survey construction and applied research. Students will perform tasks typically requested of data analysts, institutional researchers, and program evaluators including but not limited to SPSS data management, data transformations, descriptive and inferential analysis, and interpretation of results.

**Prerequisite:** EVAL 65510 or EVAL 75510; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**EVAL 78716 STATISTICS II: ANOVA AND NONPARAMETRIC TESTS 3 Credit Hours**

(Slashed with EVAL 68716) The primary objective of the course is to develop students' understanding of statistical concepts and procedures sufficient for both conducting appropriate statistical analysis and interpreting the results. Authentic research examples are used throughout the course as illustrations of the different methods of conducting statistical analyses for the social sciences. This course is designed to lead students to become informed consumers of intermediate level statistical analyses, specifically analysis of variance (ANOVA) procedures, used in the social sciences.

**Prerequisite:** EVAL 65510 or EVAL 75510; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**EVAL 78728 MULTIPLE REGRESSION 3 Credit Hours**

(Slashed with EVAL 68728) The purpose of this course is to develop an understanding of use of multiple regression in the social sciences and related issues, including examining assumptions, diagnosis of outliers and influential data points, determining statistical power, testing for moderation and mediation, etc. The course begins with an introduction to simple models with two predictor variables, and continues to more advanced models, including those with three or more variables, categorical predictors, interactions, non-linear models, and logistic regression.

**Prerequisite:** EVAL 75510; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**EVAL 78735 STRUCTURAL EQUATION MODELING 3 Credit Hours**

(Slashed with EVAL 68735) The purpose of this course is to develop an understanding of the basic concepts of structural equation modeling and the use of path analysis, confirmatory factor analysis, bi-factor and second-order CFA, multitrait-multimethod analysis, multiple sample and multiple group SEM, latent class model, and latent growth modeling covered under the theoretical framework of structural equation modeling. The course familiarizes students with these methods in order to (a) critique a research study with respect to the statistical analysis, and (b) select an appropriate model and be able to apply it.

**Prerequisite:** EVAL 75510 and EVAL 78728; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**EVAL 78745 HIERARCHICAL LINEAR MODELING 3 Credit Hours**

(Slashed with EVAL 68745) This course introduces methods for the analysis of multilevel data and emphasizes practical, hands-on development, analysis and interpretation of hierarchical linear models. Applications will be drawn from education, psychology, other social sciences, and health-related disciplines. Topic coverage includes development of multilevel models, estimation, hypothesis testing, statistical inference, model assessment and residual diagnostics, centering options and impact, treatment of heterogeneity, and introduction to longitudinal analysis via multilevel models.

**Prerequisite:** EVAL 75510 and EVAL 78728; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**EVAL 78806 HIGHER EDUCATION DATA AND INSTITUTIONAL RESEARCH 3 Credit Hours**

(Slashed with EVAL 68806) This course is designed to be an overview of institutional research function and practice, introducing students to the purpose and history of IR, IR terminology and metrics, and IR application to a variety of university areas. The target audiences for this course are: 1) students with an evaluation and measurement background who are interested in applying their skills in a higher education context and 2) students from a higher education and or student affairs background who are looking to better understand higher education data and the applied research that occurs within an institution.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**EVAL 78807 PROGRAM EVALUATION 3 Credit Hours**

(Slashed with EVAL 68807) Study of principles and techniques of evaluation and measurement, and utilization of evidence to improve teaching, learning and implementation programs.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**EVAL 78898 COMPARATIVE RESEARCH DESIGN 3 Credit Hours**

(Repeatable for credit) The course develops the ability of the student to conceptualize the design elements of educational research and to write results of studies.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Research

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**EVAL 80090 DOCTORAL RESIDENCY SEMINAR 3 Credit Hours**

Advanced doctoral residency seminar for students in all areas of educational foundations. Focus on current and emergent issues research and trends in education in multiple settings.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Seminar

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**EVAL 80199 DISSERTATION I 15 Credit Hours**

(Repeatable for credit) Doctoral dissertation for which registration in at least two semesters is required, first of which will be semester in which dissertation work is begun and continuing until the completion of 30 hours.

**Prerequisite:** Doctoral standing; and special approval.

**Schedule Type:** Dissertation

**Contact Hours:** 15 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**EVAL 80299 DISSERTATION II 15 Credit Hours**

(Repeatable for credit) Continuing registration required of doctoral students who have completed the initial 30 hours of dissertation and continuing until all degree requirements are met.

**Prerequisite:** EVAL 80199; and doctoral standing.

**Schedule Type:** Dissertation

**Contact Hours:** 15 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**EVAL 85515 QUANTITATIVE RESEARCH DESIGN AND ANALYSIS 3 Credit Hours**

(Slashed with EVAL 65515) Introduction to quantitative research design and analysis in the social sciences. Students are introduced to various concerns and issues that arise in conducting quantitative research, as well as various quantitative research designs, including experimental, quasi-experimental, and non-experimental research approaches. Students will also learn to critically examine quantitative research reports in terms of reliability and validity. Additionally, students will be introduced to analysis of variance (ANOVA) procedures for analyzing quantitative research designs.

**Prerequisite:** EVAL 65510 or 75510; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**EVAL 85516 QUALITATIVE RESEARCH DESIGN 3 Credit Hours**

(Slashed with EVAL 65516) Introduction to qualitative research approaches, design, and methods. Students learn about the theoretical underpinnings, nature, characteristics, and methods of qualitative research. Students are introduced to several types of qualitative research designs. They learn to engage in critical reading of qualitative research reports. Students also learn to design qualitative research studies.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**EVAL 85517 ADVANCED QUANTITATIVE RESEARCH IN EDUCATIONAL SERVICES 3 Credit Hours**

Advanced quantitative research design and application in educational services. Statistical packages of instructional strategies with methodological principles focus, theoretical models and practical application of experimental and multivariate research design.

**Prerequisite:** EVAL 85515; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**EVAL 85518 ADVANCED QUALITATIVE RESEARCH IN EDUCATIONAL SERVICES 3 Credit Hours**

Utilizes qualitative data in educational services. Applications in qualitative methodology (video techniques) and protocol analysis are applied and evaluated. Generate findings; develop applications to theory; reliability and validity considerations.

**Prerequisite:** EVAL 85516; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**EVAL 85520 MIXED METHODS RESEARCH 3 Credit Hours**

This course provides an overview of theoretical and practical issues pertaining to mixed methods research in educational settings. This overview includes the history and philosophy of mixed methods research, types of mixed methods designs, and various strategies for mixed methods data collection and analysis. Course outcomes include the development of a rationale for mixed methods approaches, critique of published mixed methods educational research, and the design and preliminary implementation of a mixed methods research project.

**Prerequisite:** EVAL 85515 and EVAL 85516; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**EVAL 85530 PRACTITIONER INQUIRY 3 Credit Hours**

(Slashed with EVAL 65530) This course prepares students to engage in practitioner research. It provides an overview of the history, theoretical, ethical, and practical issues related to engaging in practitioner work in a variety of fields. Research design, data collection and analysis are explored and practiced. Students will critique practitioner research and design their own practitioner research study.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter



**EVAL 85540 GROUNDED THEORY AND PHENOMENOLOGICAL RESEARCH 3 Credit Hours**

This course prepares students to engage in and argue for phenomenological research and grounded theory research. It provides an overview of the history, theoretical, and practical background related to various forms of phenomenological and grounded theory research. Research design, data collection and analysis are explored and practiced. Students will critique phenomenological and grounded theory research and design their own study or pilot a study of one of the two types.

**Prerequisite:** EVAL 85516; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**EVAL 85550 ETHNOGRAPHY AND CASE STUDY RESEARCH 3 Credit Hours**

The purpose of this course is to provide doctoral students advanced instruction in two approaches to qualitative inquiry: ethnography and case study research. In addition to providing students with an understanding of the theoretical perspectives which underlie the methodological approach to case study and ethnographic research, the course is designed to provide numerous opportunities for students to learn and practice techniques for generating, analyzing, writing-up, and using both ethnographic and case study data.

**Prerequisite:** EVAL 85516; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**EVAL 85560 CRITICAL SOCIAL RESEARCH 3 Credit Hours**

Critical social research refers to a diverse set of approaches to research that employ a critical ontological and epistemological lens. Critical researchers work from sets of assumptions about power in the social world articulated by some form of critical theory. This graduate course surveys a range of approaches to critical social research, engaging students in learning about the theoretical foundations and inquiry methods of these diverse approaches.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**EVAL 88791 SEMINAR: EVALUATION AND MEASUREMENT 1-5 Credit Hours**

(Repeatable for credit) Variable topic seminar for advance study of specialized topics and areas in evaluation and measurement; emphasis on theory and research findings as related to educational practice.

**Prerequisite:** Doctoral standing; and special approval.

**Schedule Type:** Seminar

**Contact Hours:** 1-5 other

**Grade Mode:** Standard Letter

**EVAL 88795 SPECIAL TOPICS: EVALUATION AND MEASUREMENT 1-3 Credit Hours**

(Repeatable for credit) Specific topic course offering in response to emerging student or program needs in evaluation and measurement.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 1-3 lecture

**Grade Mode:** Standard Letter

**EVAL 88796 INDIVIDUAL INVESTIGATION IN EVALUATION AND MEASUREMENT 1-3 Credit Hours**

(Repeatable for credit) Specific topic course offering in response to emerging student or program needs in evaluation and measurement.

**Prerequisite:** Doctoral standing; and special approval.

**Schedule Type:** Individual Investigation

**Contact Hours:** 1-3 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**EVAL 88798 RESEARCH IN EVALUATION AND MEASUREMENT 1-15 Credit Hours**

(Repeatable for credit) Students pursue an individual research project on a specific topic in evaluation and measurement of education with approval and under direction of instructor.

**Prerequisite:** Doctoral standing; and special approval.

**Schedule Type:** Research

**Contact Hours:** 1-15 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

## Higher Education (HIED)

**HIED 46525 CAREERS IN HIGHER EDUCATION 3 Credit Hours**

Familiarize students with the history of higher education; philosophies of higher education, financial, legal and political issues facing higher education; and the careers available in colleges and universities.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HIED 60093 VARIABLE TOPIC WORKSHOP IN HIGHER EDUCATION ADMINISTRATION 1-6 Credit Hours**

(Slashed with HIED 70093) Variable topics; designed to respond to specialized needs of various groups with the contexts of trends, issues and problems in the various higher education disciplines.

**Prerequisite:** Graduate standing.

**Schedule Type:** Workshop

**Contact Hours:** 1-6 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**HIED 66492 INTERNSHIP IN HIGHER EDUCATION ADMINISTRATION 3-6 Credit Hours**

(Slashed with HIED 76492)(Repeatable for a maximum of 12 credit hours) Field-based internship, minimum 150 clock hours, as approved by the program area faculty. Specific topics are outlined and shared at meetings prior to beginning internship.

**Prerequisite:** Graduate standing.

**Schedule Type:** Practical Experience

**Contact Hours:** 10-20 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**HIED 66521 EMPLOYMENT LAW 3 Credit Hours**

(Slashed with HIED 76521) Study of public and private sector bargaining law and all terms and conditions of employment.

**Prerequisite:** Higher education administration and student affairs; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter



**HIED 66558 ADVANCED EDUCATIONAL LEADERSHIP 3 Credit Hours**

(Slashed with HIED 86558) Course provides the opportunity for students to gain additional knowledge and skills in educational leadership, to improve research writing and teaching skills# to share and discuss leadership knowledge and insights with their peers and to defend their work before their peers.

**Prerequisite:** HIED 66657; and graduate standing.

**Schedule Type:** Seminar

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HIED 66594 INTERNSHIP IN COLLEGE TEACHING 3 Credit Hours**

(Repeatable for credit) (Slashed with HIED 76594) Application of course and lesson planning; instructional and evaluation skills under faculty supervision; lecturing, guiding group performance and evaluating performances. Arrangements made on individual basis.

**Prerequisite:** At least 12 hours in higher education; and graduate standing; and special approval.

**Schedule Type:** Practical Experience

**Contact Hours:** 9 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**HIED 66595 SPECIAL TOPICS IN HIGHER EDUCATION****ADMINISTRATION 3 Credit Hours**

(Slashed with HIED 76595)(Repeatable for credit) Specialized offerings in response to emerging or selected program needs.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HIED 66596 INDIVIDUAL INVESTIGATION IN HIGHER EDUCATION****ADMINISTRATION 2-4 Credit Hours**

(Repeatable for credit) Projects as assigned.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Individual Investigation

**Contact Hours:** 2-4 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**HIED 66598 RESEARCH IN HIGHER EDUCATION ADMINISTRATION****2-8 Credit Hours**

(Repeatable for credit) Projects as assigned.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Research

**Contact Hours:** 2-8 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**HIED 66600 HISTORY OF HIGHER EDUCATION 3 Credit Hours**

(Cross-listed with CULT 69567 and CULT 79567)(Slashed with HIED 76600) Overview and exploration of history of higher education in the United States. Survey course covers ancient and medieval European antecedents, but focuses largely on American higher education from the 17th through the 20th century. Students explore changes in student body curricula and purposes of higher education in the United States in the context of American culture.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HIED 66601 THE PRIVATE LIBERAL ARTS COLLEGE 3 Credit Hours**

(Slashed with HIED 76601) Explores a unique type of institution in American higher education, the private liberal arts college. Identifies common themes and challenges across institutions as well as the nature of specific examples of institutions.

**Prerequisite:** Higher education administration and student affairs major; and Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HIED 66651 STUDENT AFFAIRS FUNCTIONS IN HIGHER EDUCATION****3 Credit Hours**

(Slashed with HIED 76651) Study of the history, philosophy, practices and organization of student affairs functions in higher education.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HIED 66652 LAW AND HIGHER EDUCATION 3 Credit Hours**

(Slashed with HIED 76652) Provides for the examination of major legal aspects of the administration of institutions of higher learning.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HIED 66653 COLLEGE STUDENT DEVELOPMENT: THEORY AND****PRACTICE 3 Credit Hours**

(Slashed with HIED 76653) Study of theories concerning the development of college students and other adults, and the principles for translating theory into practice.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HIED 66654 STUDENTS AND THE COLLEGE ENVIRONMENT 3 Credit Hours**

(Slashed with HIED 76654) Study of the impact of different types of students and college environments on each other and within the context of a changing society.

**Prerequisite:** HIED 66653; and graduate standing; and special approval of instructor.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HIED 66655 CASE STUDIES IN HIGHER EDUCATION ADMINISTRATION 3 Credit Hours**

(Slashed with HIED 76655) Study of management responsibilities and leadership issues of student affairs administrators.

**Prerequisite:** HIED 66652 and HIED 66653 and HIED 66657; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HIED 66656 HIGHER EDUCATION CURRICULUM 3 Credit Hours**

(Slashed with HIED 76656) Introduces perspectives on curriculum development, implementation and assessment in higher education. Course addresses theoretical, historical, political and contemporary perspectives on higher education curriculum.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HIED 66657 LEADERSHIP IN EDUCATION ORGANIZATIONS 3 Credit Hours**

(Slashed with HIED 76657) By learning to appraise their own leadership styles, students improve their leadership effectiveness and explore the relationship between leadership and college and university effectiveness.

**Prerequisite:** Higher education administration and student affairs major; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HIED 66658 THE COMMUNITY COLLEGE 3 Credit Hours**

(Slashed with HIED 76658) A study of the foundations, structure, programs and issues of community college education in the United States.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HIED 66660 FACULTY ROLES AND RESPONSIBILITIES 3 Credit Hours**

(Slashed with HIED 76660) A study of faculty roles and responsibilities in American higher education.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HIED 66662 POLITICS AND POWER IN ORGANIZATIONS 3 Credit Hours**

(Slashed with HIED 76662) Course is designed to provide a conceptual framework for understanding the multifaceted processes of policy-making that take place in both internal and external settings in organizations.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HIED 66663 STATUS OF WOMEN IN HIGHER EDUCATION 3 Credit Hours**

(Slashed with HIED 76663) Provides a comprehensive overview of the historical, contemporary and scholarly perspectives on women students, faculty, administrators and staff. Students explore why and how women and men experience higher education differently, by drawing on scholarly contributions, feminist theoretical and research perspectives and historical, cultural and psychological contexts. The course considers how the context, recognition of power, other dimensions of identities and desire to change society and the academy have fueled and shaped feminist study of the history and condition of women in higher education. Students explore these issues through various media, and they also have the opportunity to investigate a real-life problem of their choice.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HIED 66664 SERVICE LEARNING IN HIGHER EDUCATION 3 Credit Hours**

(Slashed with HIED 76664) Examines the concepts, debate and principles of practice of service-learning in U.S. higher education. Focus is on developing knowledge about service-learning and enhancing skills and competencies for designing service-learning opportunities in higher education. The course involves an active, experiential component. Additionally, as a class, students investigate problem-based service-learning along a continuum of action to discern how it contributes to individual's civic efficacy.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HIED 66665 TECHNOLOGY, SYSTEMS AND DATA IN HIGHER EDUCATION ADMINISTRATION 3 Credit Hours**

(Slashed with HIED 76665) Exploration of technology, systems and data analysis essential to the practice of higher education administration. Students examine and apply tools used for the organization, analysis and dissemination of information, including, but not limited to, ERP systems, learning management systems, web applications for data collection and office productivity software. Students perform tasks typically requested of administrators related to budget or workload management, managing lists and or rosters, exploring trend data for decision-making and generating charts, tables and other data for reporting needs. Survey design and construction using online applications are a significant component of this course. It is strongly advised that students taking the course have moderate experience with office productivity software.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HIED 66666 FINANCIAL MANAGEMENT IN HIGHER EDUCATION 3 Credit Hours**

(Slashed with HIED 76666) Course covers financial issues, sources of funds, economics of education, financial roles of professional and academic administrators and the financial management skills as applicable to institutions of higher education.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HIED 66667 BUSINESS ADMINISTRATION IN HIGHER EDUCATION 3 Credit Hours**

(Slashed with HIED 76667) Course introduces students to the administrative and business management of institutions of higher education. Covers topics on institutional planning, space management, insurance matters, personnel administration and purchasing and facility management.

**Prerequisite:** HIED 66657; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HIED 66669 ADMINISTRATION OF STUDENT DISABILITY SERVICES IN HIGHER EDUCATION 3 Credit Hours**

(Slashed with HIED 76669) Understanding the legal and practical issues regarding the identification, accommodation and matriculation of students with disabilities into colleges and universities.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HIED 66670 INTERNATIONALIZATION OF HIGHER EDUCATION INSTITUTIONS 3 Credit Hours**

(Slashed with HIED 76670) Students study the historical and current development of the internationalization of higher education institutions. They explore higher education administrative leadership characteristics; social, political and economic factors; and national and international relationships that have affected various countries and regions. They also examine rationales behind internationalization of higher education institutions, its meaning and approaches, and the different strategies and organizational models in different types of higher education institutions.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HIED 66671 THE ADMINISTRATION OF MULTICULTURALISM AND DIVERSITY IN HIGHER EDUCATION 3 Credit Hours**

(Slashed with HIED 76671) Course covers racial, ethnic and inclusive diversity and multiculturalism in U.S. higher education settings. Diversity is discussed from a historical perspective, providing a context for contemporary experiences described by and about students, staff, faculty and administrators. Main topics include multiculturalism in higher education in light of inclusive education; racial and ethnic diversity in higher education history; benefits of diversity; faculty issues; student issues; curriculum and pedagogy matters; research issues; law and policy issues; and strategic planning for institution diversity in higher education.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HIED 66672 INTERNATIONAL STUDENTS AND AMERICAN COLLEGES 3 Credit Hours**

(Slashed with HIED 76672) Course bridges theory and application with an emphasis on the latter. The course begins with a national perspective and then concentrates on the various aspects and best practices of recruiting and supporting international students at the institutional level.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HIED 66673 RESEARCH IN ADMINISTRATION OF INTERNATIONAL HIGHER EDUCATION 3 Credit Hours**

(Slashed with HIED 76673) Examines and analyzes research related to higher education administration in the field of international and global education. Implications for application of findings for improvement of colleges and universities at home and abroad is discussed thoroughly.

**Prerequisite:** Higher education administration and student affairs major; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HIED 66674 COMPARATIVE HIGHER EDUCATION 3 Credit Hours**

(Slashed with HIED 76674) Students learn the differences between comparative, international and cross-border education. They reflect on how the U.S. higher education system grew out of specific historical, cultural and socio-economic contexts and analyze the higher education systems and structures of other selected countries and regions, focusing on the contexts which have influenced their development. Students examine emerging trends in the globalization of qualifications frameworks and quality assessment standards, and define their own positions in aspects of the universal criteria/local contexts debate.

**Prerequisite:** Higher education administration and student affairs major; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HIED 66675 DESIGN AND DELIVERY OF EDUCATION ABROAD PROGRAMS 3 Credit Hours**

(Slashed with HIED 76675) Students examine the many critical aspects of designing, planning and implementing an education abroad program. Students analyze components an education abroad program and, with others, design a new program. Students also consider the institutional contexts in which the program design occurs, on a campus or third-party organizational level, including design decisions about curriculum content and program delivery mechanisms, co-curricular activities and safety issues. Students also develop skills in conducting needs assessments and program evaluations.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HIED 66676 INTERCULTURAL COMMUNICATION FOR INTERNATIONAL EDUCATORS 3 Credit Hours**

(Slashed with HIED 76676) Students examine both classic and evolving intercultural communication theories, with an emphasis on the practical application of those theories to working in intercultural environments in higher education. Students analyze cultural influences on individuals, through the reading of cultural biographies and reflection on cultural influences in their own lives. Definitions of intercultural competence and strategies for intercultural learning (particularly in higher education contexts) are reviewed, with implications for program design in education abroad, work with international students and other international education contexts.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HIED 66677 WORKFORCE, ECONOMIC AND COMMUNITY DEVELOPMENT IN COMMUNITY COLLEGES 3 Credit Hours**

(Slashed with HIED 76677) Course examines the role of the community college in workforce, economic and community development and within the context of social, economic and technology shifts.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HIED 66678 ISSUES AND TRENDS IN COMMUNITY COLLEGE ADMINISTRATION 3 Credit Hours**

(Slashed with HIED 76678) Course addresses current salient issues in community college administration. A variety of topics are examined as related to challenges for community college leaders arising from social, economic and political shifts.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HIED 66679 CAREER ADVISING: THEORY AND PRACTICE 3 Credit Hours**

(Slashed with HIED 76679) Develop practical skills in providing developmentally appropriate theory based academic and career advising to assist individuals in adding meaningful and purposeful work into their lives.

**Prerequisite:** Graduate standing.

**Schedule Type:** Seminar

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**HIED 66680 ADMINISTRATION OF CAREER AND ADVISING SERVICES 1 Credit Hour**

(Slashed with HIED 76680) Examines contemporary issues in administration of career and academic advising services. Challenges students to rethink the models and methods used to prepare individuals to enter the workforce and navigate their careers.

**Prerequisite:** Graduate standing.

**Schedule Type:** Seminar

**Contact Hours:** 1 other

**Grade Mode:** Standard Letter

**HIED 66681 ADMINISTRATION OF ADVISING SERVICES 3 Credit Hours**

(Slashed with HIED 76681) Examines contemporary issues in administration of academic advising services. Challenges students to rethink models and methods used to prepare individuals to enter the workforce and navigate their careers.

**Prerequisite:** HIED 66653; and graduate standing.

**Schedule Type:** Seminar

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HIED 66733 INTERPERSONAL AND GROUP DYNAMICS IN EDUCATIONAL ORGANIZATIONS 3 Credit Hours**

(Slashed with HIED 76733) Students working in task groups learn about interpersonal, group and inter-group dynamics in organizations through lectures, discussions and analysis of their in-group experiences.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HIED 66745 EQUITY, JUSTICE AND U.S. HIGHER EDUCATION 3 Credit Hours**

(Slashed with HIED 76745) Examines issues of equity and justice in the U.S. higher education, including historical origins, access to higher education, students' experiences within colleges and universities and outcomes of higher education. Course also focuses on the role of higher education as a social institution, including higher education as a public good and the intersection of higher education with current social issues such as labor and free speech.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HIED 66749 ASSESSMENT AND EVALUATION IN HIGHER EDUCATION 3 Credit Hours**

(Slashed with HIED 76749) Course provides an understanding of current assessment and evaluation methods in higher education settings. Topics span from individual classroom assessment through institutional accreditation processes.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HIED 66771 PLANNING AND IMPLEMENTING STUDY ABROAD WHILE STUDYING ABROAD 3 Credit Hours**

Students learn the principles and practice of designing and delivering effective study- abroad programs through Kent State location in Florence, Italy. Students observe summer programs; study the principles of developing effective study abroad experiences; and meet with university program officials, faculty, facility support staff, private third-party providers of study abroad and the community, in addition to such onsite support services as legal advisors, health professionals and housing offices.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter-IP

**HIED 70093 VARIABLE TOPIC WORKSHOP IN HIGHER EDUCATION ADMINISTRATION 1-6 Credit Hours**

(Slashed with HIED 60093) Variable topics# designed to respond to specialized needs of various groups with the contexts of trends, issues and problems in the various higher education disciplines.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Workshop

**Contact Hours:** 1-6 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**HIED 76492 INTERNSHIP IN HIGHER EDUCATION ADMINISTRATION 3-6 Credit Hours**

(Repeatable for a maximum of 12 credit hours) (Slashed with HIED 66492) Field-based internship of at least 150 clock hours, as approved by the program area faculty. Specific topics are outlined and shared at meetings prior to beginning internship.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Practical Experience

**Contact Hours:** 10-20 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**HIED 76521 EMPLOYMENT LAW 3 Credit Hours**

(Slashed with HIED 66521) Study of public and private sector bargaining law and all terms of employment.

**Prerequisite:** Higher education administration major; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HIED 76594 INTERNSHIP IN COLLEGE TEACHING 3 Credit Hours**

(Repeatable for credit) (Slashed with HIED 66594) Application of course and lesson planning; instructional and evaluation skills under faculty supervision; lecturing, guiding group performance and evaluating performances. Arrangements made on individual basis.

**Prerequisite:** At least 12 hours in higher education; and doctoral standing; and special approval.

**Schedule Type:** Practical Experience

**Contact Hours:** 9 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**HIED 76595 SPECIAL TOPICS IN HIGHER EDUCATION ADMINISTRATION 3 Credit Hours**

(Slashed with HIED 66595)(Repeatable for credit) Specialized offerings in response to emerging or selected program needs.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HIED 76596 INDIVIDUAL INVESTIGATION IN HIGHER EDUCATION ADMINISTRATION 2-4 Credit Hours**

(Repeatable for credit) Projects as assigned.

**Prerequisite:** Doctoral standing; and special approval.

**Schedule Type:** Individual Investigation

**Contact Hours:** 2-4 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**HIED 76598 RESEARCH IN HIGHER EDUCATION ADMINISTRATION 2-8 Credit Hours**

(Repeatable for credit) Projects as assigned.

**Prerequisite:** Doctoral standing; and special approval.

**Schedule Type:** Research

**Contact Hours:** 2-8 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**HIED 76600 HISTORY OF HIGHER EDUCATION 3 Credit Hours**

(Cross-listed with CULT 69567 and CULT 79567)(Slashed with HIED 66600) Overview and exploration of history of higher education in the United States. Survey course covers ancient and medieval European antecedents, but focuses largely on American higher education from the 17th through the 20th century. Students explore changes in student body curricula and purposes of higher education in the United States in the context of American culture.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HIED 76601 THE PRIVATE LIBERAL ARTS COLLEGE 3 Credit Hours**

(Slashed with HIED 66601) Explores a unique type of institution in American higher education, the private liberal arts college. Identifies common themes and challenges across institutions as well as the nature of specific examples of institutions.

**Prerequisite:** Higher education administration major; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HIED 76651 STUDENT AFFAIRS FUNCTIONS IN HIGHER EDUCATION 3 Credit Hours**

(Slashed with HIED 66651) Study of the history, philosophy, practices and organization of student affairs functions in higher education.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HIED 76652 LAW AND HIGHER EDUCATION 3 Credit Hours**

(Slashed with HIED 66652) Provides for the examination of major legal aspects of the administration of institutions of higher learning.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HIED 76653 COLLEGE STUDENT DEVELOPMENT: THEORY AND PRACTICE 3 Credit Hours**

(Slashed with HIED 66653) Study of theories concerning the development of college students and other adults, and the principles for translating theory into practice.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HIED 76654 STUDENTS AND THE COLLEGE ENVIRONMENT 3 Credit Hours**

(Slashed with HIED 66654) Study of the impact of different types of students and college environments on each other and within the context of a changing society.

**Prerequisite:** HIED 76653; and doctoral standing; and special approval of the instructor.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HIED 76655 CASE STUDIES IN HIGHER EDUCATION ADMINISTRATION 3 Credit Hours**

(Slashed with HIED 66655) Study of management responsibilities and leadership issues of student affairs administrators.

**Prerequisite:** HIED 76652 and 76653 and 76657; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter



**HIED 76656 HIGHER EDUCATION CURRICULUM 3 Credit Hours**  
 (Slashed with HIED 66656) Introduces perspectives on curriculum development, implementation and assessment in higher education and addresses theoretical, historical, political and contemporary perspectives on higher education curriculum.  
**Prerequisite:** Doctoral standing.  
**Schedule Type:** Lecture  
**Contact Hours:** 3 lecture  
**Grade Mode:** Standard Letter

**HIED 76657 LEADERSHIP IN EDUCATION ORGANIZATIONS 3 Credit Hours**  
 (Slashed with HIED 66657) By learning to appraise their own leadership styles, students improve their leadership effectiveness and explore the relationship between leadership and college and university effectiveness.  
**Prerequisite:** Higher education administration major; and doctoral standing.  
**Schedule Type:** Lecture  
**Contact Hours:** 3 lecture  
**Grade Mode:** Standard Letter

**HIED 76658 THE COMMUNITY COLLEGE 3 Credit Hours**  
 (Slashed with HIED 66658) A study of the foundations, structure, programs and issues of community college education in the United States.  
**Prerequisite:** Doctoral standing.  
**Schedule Type:** Lecture  
**Contact Hours:** 3 lecture  
**Grade Mode:** Standard Letter

**HIED 76660 FACULTY ROLES AND RESPONSIBILITIES 3 Credit Hours**  
 (Slashed with HIED 66660) A study of faculty roles and responsibilities in American higher education.  
**Prerequisite:** Doctoral standing.  
**Schedule Type:** Lecture  
**Contact Hours:** 3 lecture  
**Grade Mode:** Standard Letter

**HIED 76662 POLITICS AND POWER IN ORGANIZATIONS 3 Credit Hours**  
 (Slashed with HIED 66662) Course is designed to provide a conceptual framework for understanding the multifaceted processes of policy-making that take place in both internal and external settings in organizations.  
**Prerequisite:** Doctoral standing.  
**Schedule Type:** Lecture  
**Contact Hours:** 3 lecture  
**Grade Mode:** Standard Letter

**HIED 76663 STATUS OF WOMEN IN HIGHER EDUCATION 3 Credit Hours**  
 (Slashed with HIED 66663) Provides a comprehensive overview of the historical, contemporary and scholarly perspectives on women students, faculty, administrators and staff. Students explore why and how women and men experience higher education differently, by drawing on scholarly contributions, feminist theoretical and research perspectives and historical, cultural and psychological contexts. The course considers how the context, recognition of power, other dimensions of identities and desire to change society and the academy have fueled and shaped feminist study of the history and condition of women in higher education. Students explore these issues through various media, and they also have the opportunity to investigate a real-life problem of their choice.  
**Prerequisite:** Doctoral standing.  
**Schedule Type:** Lecture  
**Contact Hours:** 3 lecture  
**Grade Mode:** Standard Letter

**HIED 76664 SERVICE LEARNING IN HIGHER EDUCATION 3 Credit Hours**  
 (Slashed with HIED 66664) Examines the concepts, debate and principles of practice of service-learning in U.S. higher education. Focus is on developing knowledge about service-learning and enhancing skills and competencies for designing service-learning opportunities in higher education. The course involves an active, experiential component. Additionally, as a class, students investigate problem-based service-learning along a continuum of action to discern how it contributes to individual's civic efficacy.  
**Prerequisite:** Doctoral standing.  
**Schedule Type:** Lecture  
**Contact Hours:** 3 lecture  
**Grade Mode:** Standard Letter

**HIED 76665 TECHNOLOGY, SYSTEMS AND DATA IN HIGHER EDUCATION ADMINISTRATION 3 Credit Hours**  
 (Slashed with HIED 66665) Exploration of technology, systems and data analysis essential to the practice of higher education administration. Students examine and apply tools used for the organization, analysis and dissemination of information, including, but not limited to, ERP systems, learning management systems, web applications for data collection and office productivity software. Students perform tasks typically requested of administrators related to budget or workload management, managing lists and or rosters, exploring trend data for decision-making and generating charts, tables and other data for reporting needs. Survey design and construction using online applications are a significant component of this course. It is strongly advised that students taking the course have moderate experience with office productivity software.  
**Prerequisite:** Doctoral standing.  
**Schedule Type:** Lecture  
**Contact Hours:** 3 lecture  
**Grade Mode:** Standard Letter

**HIED 76666 FINANCIAL MANAGEMENT IN HIGHER EDUCATION 3 Credit Hours**  
 (Slashed with HIED 66666) Course covers financial issues, sources of funds, economics of education, financial roles of professional and academic administrators and the financial management skills as applicable to institutions of higher education.  
**Prerequisite:** Doctoral standing.  
**Schedule Type:** Lecture  
**Contact Hours:** 3 lecture  
**Grade Mode:** Standard Letter

**HIED 76667 BUSINESS ADMINISTRATION IN HIGHER EDUCATION 3 Credit Hours**

(Slashed with HIED 66667) Course introduces students to the administrative and business management of institutions of higher education. Covers topics on institutional planning, space management, insurance matters, personnel administration and purchasing and facility management.

**Prerequisite:** HIED 76657; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HIED 76669 ADMINISTRATION OF STUDENT DISABILITY SERVICES IN HIGHER EDUCATION 3 Credit Hours**

(Slashed with HIED 66669) Understanding the legal and practical issues regarding the identification, accommodation and matriculation of students with disabilities into colleges and universities.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HIED 76670 INTERNATIONALIZATION OF HIGHER EDUCATION INSTITUTIONS 3 Credit Hours**

(Slashed with HIED 66670) Students study the historical and current development of the internationalization of higher education institutions. They explore higher education administrative leadership characteristics; social, political and economic factors; and national and international relationships that have affected various countries and regions. They also examine rationales behind internationalization of higher education institutions, its meaning and approaches, and the different strategies and organizational models in different types of higher education institutions.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HIED 76671 THE ADMINISTRATION OF MULTICULTURALISM AND DIVERSITY IN HIGHER EDUCATION 3 Credit Hours**

(Slashed with HIED 66671) Course covers racial, ethnic and inclusive diversity and multiculturalism in U.S higher education settings. Diversity is discussed from a historical perspective providing a context for contemporary experiences described by and about students, staff, faculty and administrators. Main topics include multiculturalism in higher education in light of inclusive education; racial and ethnic diversity in higher education history; benefits of diversity; faculty issues; student issues; administrator and leadership issues; curriculum and pedagogy matters; research issues; law and policy issues and strategic planning for institutional diversity in higher education.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HIED 76672 INTERNATIONAL STUDENTS AND AMERICAN COLLEGES 3 Credit Hours**

(Slashed with HIED 66672) Course bridges theory and application with an emphasis on the latter. The course begins with a national perspective and then concentrates on the various aspects and best practices of recruiting and supporting international students at the institutional level.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HIED 76673 RESEARCH IN ADMINISTRATION OF INTERNATIONAL HIGHER EDUCATION 3 Credit Hours**

(Slashed with HIED 66673) Examines and analyzes research related to higher education administration in the field of international and global education. Implications for application of findings for improvement of colleges and universities at home and abroad is discussed thoroughly.

**Prerequisite:** Higher education administration major; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HIED 76674 COMPARATIVE HIGHER EDUCATION 3 Credit Hours**

(Slashed with HIED 66674) Students learn the differences between comparative, international and cross-border education. They reflect on how the United States higher education system grew out of specific historical, cultural and socio-economic contexts and analyze the higher education systems and structures of other selected countries and regions, focusing on the contexts which have influenced their development. Students examine emerging trends in the globalization of qualifications frameworks and quality assessment standards, and define their own positions in aspects of the universal criteria/local contexts debate.

**Prerequisite:** Higher education administration major; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HIED 76675 DESIGN AND DELIVERY OF EDUCATION ABROAD PROGRAMS 3 Credit Hours**

(Slashed with HIED 66675) Students examine the many critical aspects of designing, planning and implementing an education abroad program. Students analyze components an education abroad program and, with others, design a new program. Students also consider the institutional contexts in which the program design occurs, on a campus or third-party organizational level, including design decisions about curriculum content and program delivery mechanisms, co-curricular activities and safety issues. Students also develop skills in conducting needs assessments and program evaluations.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HIED 76676 INTERCULTURAL COMMUNICATION FOR INTERNATIONAL EDUCATORS 3 Credit Hours**

(Slashed with HIED 66676) Students examine both classic and evolving intercultural communication theories, with an emphasis on the practical application of those theories to working in intercultural environments in higher education. Students analyze cultural influences on individuals, through the reading of cultural biographies and reflection on cultural influences in their own lives. Definitions of intercultural competence and strategies for intercultural learning (particularly in higher education contexts) are reviewed, with implications for program design in education abroad, work with international students and other international education contexts.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HIED 76677 WORKFORCE, ECONOMIC AND COMMUNITY DEVELOPMENT IN COMMUNITY COLLEGES 3 Credit Hours**

(Slashed with HIED 66677) Course examines the role of the community college in workforce, economic and community development and within the context of social, economic and technology shifts.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HIED 76678 ISSUES AND TRENDS IN COMMUNITY COLLEGE ADMINISTRATION 3 Credit Hours**

(Slashed with HIED 66678) Course addresses current salient issues in community college administration. A variety of topics are examined as related to challenges for community college leaders arising from social, economic and political shifts.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HIED 76679 CAREER ADVISING: THEORY AND PRACTICE 3 Credit Hours**

(Slashed with HIED 66679) Develop practical skills in providing developmentally appropriate theory based academic and career advising to assist individuals in adding meaningful and purposeful work into their lives.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Seminar

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**HIED 76680 ADMINISTRATION OF CAREER AND ADVISING SERVICES 1 Credit Hour**

(Slashed with HIED 66680) Examines contemporary issues in administration of career and academic advising services. Challenges students to rethink the models and methods used to prepare individuals to enter the workforce and navigate their careers.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Seminar

**Contact Hours:** 1 other

**Grade Mode:** Standard Letter

**HIED 76681 ADMINISTRATION OF ADVISING SERVICES 3 Credit Hours**

(Slashed with HIED 66681) Examines contemporary issues in administration of academic advising services. Challenges students to rethink models and methods used to prepare individuals to enter the workforce and navigate their careers.

**Prerequisite:** HIED 76653; and doctoral standing.

**Schedule Type:** Seminar

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HIED 76733 INTERPERSONAL AND GROUP DYNAMICS IN EDUCATIONAL ORGANIZATIONS 3 Credit Hours**

(Slashed with HIED 66733) Students working in task groups learn about interpersonal, group and inter-group dynamics in organizations through lectures, discussions and analysis of their in-group experiences.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HIED 76745 EQUITY, JUSTICE AND U.S. HIGHER EDUCATION 3 Credit Hours**

(Slashed with HIED 66745) Examines issues of equity and justice in U.S. higher education, including historical origins, access to higher education, students' experiences within colleges and universities, and outcomes of higher education. Course also focuses on the role of higher education as a social institution, including higher education as a public good and the intersection of higher education with current social issues such as labor and free speech.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HIED 76749 ASSESSMENT AND EVALUATION IN HIGHER EDUCATION 3 Credit Hours**

(Slashed with HIED 66749) This course is designed to provide an understanding of current assessment and evaluation methods in higher education settings. Topics will span from individual classroom assessment through institutional accreditation processes.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HIED 80080 DISSERTATION PREPARATION SEMINAR 3 Credit Hours**

Students gain an in-depth understanding of the dissertation writing process to complete their dissertation proposal.

**Prerequisite:** Doctoral standing; and special approval.

**Schedule Type:** Seminar

**Contact Hours:** 3 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**HIED 80199 DISSERTATION I 15 Credit Hours**

(Repeatable for credit) Doctoral dissertation for which registration in at least two semesters is required, the first of which is a semester in which dissertation work is begun and continuation of 30 hours.

**Prerequisite:** Doctoral standing; and special approval.

**Schedule Type:** Dissertation

**Contact Hours:** 15 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**HIED 80299 DISSERTATION II 15 Credit Hours**

(Repeatable for credit) Continuing registration required of doctoral students who have completed the initial 30 hours of dissertation and continuing until all degree requirements are met.

**Prerequisite:** HIED 80199; and doctoral standing.

**Schedule Type:** Dissertation

**Contact Hours:** 15 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**HIED 86558 ADVANCED EDUCATIONAL LEADERSHIP 3 Credit Hours**

(Slashed with HIED 66558) Course provides the opportunity for students to gain additional knowledge and skills in educational leadership, to improve research writing and teaching skills# to share and discuss leadership knowledge and insights with their peers and to defend their work before their peers.

**Prerequisite:** HIED 76657; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HIED 86559 ADVANCED STUDENT AND ADULT DEVELOPMENT 3 Credit Hours**

Students develop an in-depth understanding of one or more current theories of student or adult development. They gain additional knowledge in student development theory and theory creation.

**Prerequisite:** Higher education administration major; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Hospitality Management (HM)****HM 13022 SANITATION AND SAFETY PRINCIPLES AND PRACTICES 3 Credit Hours**

Food safety and sanitation practices for restaurants and foodservices as related to foodborne illness prevention, food purchasing, receiving, storage, preparation, cooling and heating practices, and sanitation of dishes and overall facility. HACCP plans, microbiological concerns related to foods, government regulations and inspections, and employee safety and accident prevention are covered.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** CTAG Culinary and Food Service

**HM 13023 TECHNIQUES OF FOOD PRODUCTION 6 Credit Hours**

Commercial food production principles for milk, cheese, eggs, produce, grains, meats, poultry and fish are covered. Sauces, soups, salads, entrees, side dishes and desserts are prepared with an emphasis on food quality and safety, effective equipment use, work planning and simplification, recipe standardization, pricing and presentation.

**Prerequisite:** HM 13022; and hospitality management major.

**Schedule Type:** Laboratory, Lecture, Combined Lecture and Lab

**Contact Hours:** 3 lecture, 6 lab

**Grade Mode:** Standard Letter

**Attributes:** CTAG Culinary and Food Service

**HM 13024 INTRODUCTION TO HOSPITALITY MANAGEMENT 3 Credit Hours**

Career opportunities and the scope, development and history of the hospitality industry. Introduction to management in the hospitality industry including food service, lodging and tourism.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** CTAG Culinary and Food Service

**HM 21095 SPECIAL TOPICS IN HOSPITALITY MANAGEMENT 1-4 Credit Hours**

(Repeatable for a maximum of 8 credit hours) Discussion of a major discipline or subject within the hospitality industry.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 1-4 lecture

**Grade Mode:** Standard Letter

**HM 23012 INTRODUCTORY FOOD SCIENCE 3 Credit Hours**

(Cross-listed with NUTR 23012) Principles of food preparation and quality evaluation, with an emphasis on food science concepts, nutrition, food consumption trends and government regulation.

**Prerequisite:** NUTR 23511.

**Schedule Type:** Laboratory, Lecture, Combined Lecture and Lab

**Contact Hours:** 2 lecture, 3 lab

**Grade Mode:** Standard Letter

**Attributes:** TAG Health

**HM 23030 HOTEL OPERATIONS 3 Credit Hours**

The purpose of this course is to give students a basic understanding of the overall hotel operations. Students will be introduced to the principles and practices of managerial functions relating to the operation of hotels and other accommodations.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** CTAG Culinary and Food Service

**HM 23510 QUANTITY FOOD PRODUCTION, SERVICE AND SAFETY 3 Credit Hours**

(Cross-listed with NUTR 23510) The application of management principles in quantity food production and service systems, including safety and sanitation; production forecasting and management; distribution; and service, commercial equipment and physical facilities. Introduction to inventory, recipe standardization and considerations of nutrition, quality and sustainability in quantity production.

**Prerequisite:** NUTR 23112.

**Schedule Type:** Laboratory, Lecture, Combined Lecture and Lab

**Contact Hours:** 2 lecture, 3 lab

**Grade Mode:** Standard Letter

**HM 33020 LEGAL ISSUES IN THE HOSPITALITY INDUSTRY 3 Credit Hours**

Overview and analysis of legal issues of concern to the hospitality operation. Topics include employment law, food and beverage liabilities, patron civil rights, local, state, and federal regulations; and franchising.

**Prerequisite:** Junior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HM 33026 HOSPITALITY COST CONTROL AND ANALYSIS 3 Credit Hours**

Prepares students to analyze and control costs encountered in hospitality operations. Includes computer applications, math drills and simulations.

**Prerequisite:** ACCT 23020, CIS 24053 and HM 13023.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HM 33028 HOSPITALITY PURCHASING 3 Credit Hours**

Emphasis on the selection of food, goods and services for the management of hospitality organizations. Emphasis is placed on product identification, grading and quality standards.

**Prerequisite:** HM 13023.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HM 33029 CATERING AND BANQUET MANAGEMENT 3 Credit Hours**

The course includes an in-depth analysis of all components of the catering profession including management, legal aspects, getting started in business, catering contracts, menu planning, beverage service, catering equipment, catering logistics, personnel, marketing, pricing, sanitation and safety practices, purchasing, accessory services, accounting and control practices.

**Prerequisite:** HM 33026.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HM 33031 FOOD, WINE AND BEVERAGE PAIRING 3 Credit Hours**

Provides knowledge of the sensory relationship of food, wine, beer and other spirits and the important role this process has on hospitality operations. Topics include developing an understanding of wine, beer and food pairing as a hierarchical process. Menu development and cooking the food play an important role in this class; food is chosen first then paired with the appropriate beverage. Students must be 21 years old to enroll in the class.

**Prerequisite:** None.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 2 lecture, 2 lab

**Grade Mode:** Standard Letter

**HM 33036 CLUB MANAGEMENT 3 Credit Hours**

Introduction to private club management and operations. Strategic planning, marketing, human resources, service excellence, legal issues and financial management will be emphasized within the context of food and beverage, golf and recreation.

**Prerequisite:** Junior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HM 33040 CONVENTION SALES AND MANAGEMENT 3 Credit Hours**

From a sales and convention management perspective, the convention and meetings industry is examined. Students are introduced to all facets of the conventions and meetings industry.

**Prerequisite:** HM 23030; and junior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HM 33050 PROFESSIONAL PRACTICE IN HOSPITALITY MANAGEMENT 1 Credit Hour**

Preparation of students for professional work experiences in hospitality management. Career development and professional workplace issues are addressed.

**Prerequisite:** Meet hospitality management professional study requirements; and junior standing.

**Schedule Type:** Lecture

**Contact Hours:** 1 lecture

**Grade Mode:** Standard Letter

**HM 33070 INTERNATIONAL CUISINE 4 Credit Hours**

Provides comprehensive coverage of cuisines found throughout the world, not only through recipes and techniques but also through coverage of the history, culture, geography, religion, and locally grown ingredients that influence these various cuisines. The intent is to increase learning and retention through repetitive practice cooking, using recipes steeped in culinary history and culture from around the world.

**Prerequisite:** Sophomore standing.

**Schedule Type:** Laboratory, Lecture, Combined Lecture and Lab

**Contact Hours:** 1.5 lecture, 5 lab

**Grade Mode:** Standard Letter

**HM 33145 BAKING AND PASTRY FUNDAMENTALS 3 Credit Hours**

Building on the theoretical and practical foundations of Baking and Pastry Fundamentals, this course will help students develop advanced skills and knowledge in the production and selection of quality handcrafted and purchased products. Scientific principles and experimental methods will be explored and addition emphasis will be placed on advanced decorating and finishing techniques, yeast beads, sweet doughs, cakes, tortes, chocolate work.

**Prerequisite:** None.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 1.5 lecture, 4 lab

**Grade Mode:** Standard Letter

**HM 37777 CASINO MANAGEMENT AND GAMING OPERATIONS 3 Credit Hours**

Introduction to the various aspects of the casino and gaming industry. Students study the structure of casino organizations, gain basic understanding of gaming operations and responsible gaming. Casino environments are experienced through on-site visitations. Funds for travel are the student's responsibility, and all students must be legal age of 21 prior to on-site class visitations.

**Prerequisite:** Special approval.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 2.5 lecture, 1 lab

**Grade Mode:** Standard Letter

**HM 41093 VARIABLE TOPIC WORKSHOP IN HOSPITALITY MANAGEMENT 1-3 Credit Hours**

(Repeatable for credit) Workshop setting dealing with a topic or topics in hospitality management. Learning experiences are provided in a wide range of areas.

**Prerequisite:** None.

**Schedule Type:** Workshop

**Contact Hours:** 1-3 other

**Grade Mode:** Satisfactory/Unsatisfactory

**HM 41095 SPECIAL TOPICS IN HOSPITALITY MANAGEMENT 1-4 Credit Hours**

(Repeatable for credit) Discussion of a major topic within a specific field of hospitality management.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 1-4 lecture

**Grade Mode:** Standard Letter

**HM 41096 INDIVIDUAL INVESTIGATION 1-3 Credit Hours**

(Repeatable for credit) Independent study in hospitality management.

**Prerequisite:** Written permission from instructor.

**Schedule Type:** Individual Investigation

**Contact Hours:** 1-3 other

**Grade Mode:** Standard Letter



**HM 43025 HOSPITALITY MARKETING 3 Credit Hours**

Application of marketing principles, practices and theories relevant to hospitality organizations. Case studies drawn from the hospitality industry are incorporated.

**Prerequisite:** HM 13023 and MGMT 24163 and MKTG 25010.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HM 43027 HOSPITALITY HUMAN RESOURCE MANAGEMENT (WIC) 3 Credit Hours**

(Slashed with HM 53027) Application of human resource management principles, practices, theories and legal issues relevant to hospitality organizations. Hospitality management focused case studies are incorporated.

**Prerequisite:** HM 13023 and HRM 34180.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Writing Intensive Course

**HM 43029 HOSPITALITY FINANCIAL POLICY 3 Credit Hours**

(Slashed with HM 53029) Developing financial analysis skills and decision making capabilities for short-and long-term financial management problems in the unique setting of service industries with a specific focus on hospitality organizations, restaurants, clubs and resorts, through case analysis.

**Prerequisite:** HM 33026.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HM 43030 FOOD SERVICE SYSTEMS MANAGEMENT 3 Credit Hours**

(Slashed with HM 53030)(Cross-listed with NUTR 43030 and NUTR 53030) Food service systems management, including systems theory; menu planning and evaluation; procurement; food production systems; sustainability; layout and design basics. Management concepts in non-commercial food service, including financial control, marketing, quality, management, leadership and human resources.

**Prerequisite:** HM 23012 or NUTR 23012; and HM 23510 or NUTR 23510.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** TAG Health

**HM 43031 LAYOUT AND DESIGN OF FOOD SERVICE OPERATIONS 3 Credit Hours**

Analysis and planning for the layout and design of commercial food service operations. Includes basic principles of design; space analysis; and equipment use, care, selection and layout for food service facilities based on the financial performance of the operation; food codes and related regulations. An appreciation for engineering and architecture concerns pertaining to food service operations is developed.

**Prerequisite:** HM 33026.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HM 43035 HOSPITALITY SERVICE QUALITY MANAGEMENT 3 Credit Hours**

(Slashed with HM 53035) Tourism and hospitality are service industries. A significant element in these industries is management of the service encounters which will be the focus this course. In order to provide a comprehensive, inter- and multi-disciplinary view, the course will be constructed in three modules. The first module will present the characteristics and dynamics of the service encounter. The second module will focus on successful service encounters (service quality) and its outcome (customer satisfaction). The third module will present the dynamics of service failure and service recovery. The three modules of this course will provide an opportunity to understand the dynamics of the service encounter, to manage service quality and to learn how to identify service failure and plan for service recovery.

**Prerequisite:** MGMT 24163.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HM 43040 STRATEGIC HOTEL MANAGEMENT 3 Credit Hours**

(Slashed with HM 53040) The hotel manager's role as a strategic thinker is emphasized. Techniques such as co-alignment model, brand strategy, competitor analysis, market research, risk management and finance options are used to develop strategic plans in hotels.

**Prerequisite:** HM 23030 and HM 33026.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 2 lecture, 2 lab

**Grade Mode:** Standard Letter

**HM 43043 HOSPITALITY MEETINGS MANAGEMENT 3 Credit Hours**

(Slashed with HM 53043) Exploration of the unique issues associated with managing hospitality meeting and event planning. Emphasis on management of social, association and corporate events, weddings, reunions, award banquets, receptions and annual meetings held in hospitality venues requiring food and beverage and/or lodging.

**Prerequisite:** HM 23030 and HM 33026.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HM 43092 PRACTICUM IN HOSPITALITY MANAGEMENT (ELR) 3-6 Credit Hours**

(Repeatable for a total of 6 credit hours) Supervised professional experience in the hospitality industry including operations such as restaurants, hotels, clubs, health care, theme parks and food distribution. Course assignments are included. Repeatable for a total of 6 credits.

**Prerequisite:** HM 33050; and junior or senior standing; and special approval.

**Schedule Type:** Practical Experience

**Contact Hours:** 19-37 other

**Grade Mode:** Satisfactory/Unsatisfactory

**Attributes:** Experiential Learning Requirement

**HM 43192 HOSPITALITY MEETINGS MANAGEMENT PRACTICUM (ELR) 2 Credit Hours**

(Slashed with HM 53192) Practical experience in a hospitality establishment related to: inside and outside event sales, event management, guest services, food and beverage management, event staff scheduling, banquet operations, maintenance and housekeeping related to events.

**Corequisite:** HM 43043.

**Schedule Type:** Practical Experience

**Contact Hours:** 6 other

**Grade Mode:** Standard Letter

**Attributes:** Experiential Learning Requirement

**HM 51092 HOSPITALITY AND TOURISM MANAGEMENT PROFESSIONAL PRACTICUM 3 Credit Hours**

Supervised professional experience in the hospitality and-or tourism industry including operations such as restaurants, hotels, clubs, resorts, theme parks, and casinos. Minimum of 405 hours in the field.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Practical Experience

**Contact Hours:** 27 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**HM 53025 HOSPITALITY MARKETING 3 Credit Hours**

(Slashed with HM 53025) Application of marketing principles, practices and theories relevant to hospitality organizations. Internet marketing in hospitality. Case studies drawn from the hospitality industry are incorporated.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HM 53027 HOSPITALITY HUMAN RESOURCE MANAGEMENT 3 Credit Hours**

(Slashed with HM 43027) Application of human resource management principles, practices, theories and legal issues relevant to hospitality organizations. Hospitality management focused case studies and current controversies are incorporated.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HM 53029 HOSPITALITY FINANCIAL POLICY 3 Credit Hours**

(Slashed with HM 43029) Developing financial analysis skills and decision making capabilities for short-and long-term financial management problems in the unique setting of service industries with a specific focus on hospitality organizations, restaurants, clubs and resorts, through case analysis.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HM 53030 FOOD SERVICE SYSTEMS MANAGEMENT 3 Credit Hours**

(Slashed with HM 43030)(Cross-listed with NUTR 43030 and NUTR 53030) Food service systems management, including systems theory; menu planning and evaluation; procurement; food production systems; sustainability; layout and design basics. Management concepts in non-commercial food service, including financial control, marketing, quality, management, leadership and human resources.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HM 53035 HOSPITALITY SERVICE QUALITY MANAGEMENT 3 Credit Hours**

(Slashed with HM 43035) Tourism and hospitality are service industries. A significant element in these industries is management of the service encounters which will be the focus this course. In order to provide a comprehensive, inter- and multi-disciplinary view, the course will be constructed in three modules. The first module will present the characteristics and dynamics of the service encounter. The second module will focus on successful service encounters (service quality) and its outcome (customer satisfaction). The third module will present the dynamics of service failure and service recovery. The three modules of this course will provide an opportunity to understand the dynamics of the service encounter, to manage service quality and to learn how to identify service failure and plan for service recovery.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HM 53040 STRATEGIC HOTEL MANAGEMENT 3 Credit Hours**

(Slashed with HM 43040) The hotel manager's role as a strategic thinker is emphasized. Techniques such as co-alignment model, brand strategy, competitor analysis, market research, risk management and finance options are used to develop strategic plans in hotels.

**Prerequisite:** Graduate standing.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 2 lecture, 2 lab

**Grade Mode:** Standard Letter

**HM 53043 HOSPITALITY MEETINGS MANAGEMENT 3 Credit Hours**

(Slashed with HM 43043) Exploration of the unique issues associated with managing hospitality meeting and event planning. Emphasis on management of social, association and corporate events, weddings, reunions, award banquets, receptions and annual meetings held in hospitality venues requiring food and beverage and/or lodging.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HM 53192 HOSPITALITY MEETINGS MANAGEMENT PRACTICUM 2 Credit Hours**

(Slashed with HM 43192) Practical experience in a hospitality establishment related to: inside and outside event sales, event management, guest services, food and beverage management, event staff scheduling, banquet operations, maintenance and housekeeping related to events.

**Prerequisite:** Graduate standing; and special approval.

**Corequisite:** HM 53043.

**Schedule Type:** Practical Experience

**Contact Hours:** 2 lab

**Grade Mode:** Standard Letter

**HM 61098 RESEARCH IN HOSPITALITY MANAGEMENT 1-15 Credit Hours**

(Repeatable for credit) Research for master's-level graduate students. Credit earned may be applied toward meeting degree requirements if school approves.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Research

**Contact Hours:** 1-15 other

**Grade Mode:** Standard Letter

**HM 61198 MASTERS PROJECT IN HOSPITALITY MANAGEMENT 2-6 Credit Hours**

(Repeatable for credit) Completion and successful defense of master's project. Master's project students must register for a total of 6 credit hours, 2-6 in a single semester; distributed over several semesters if desired.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Research

**Contact Hours:** 2-6 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**HM 61199 THESIS I 2-6 Credit Hours**

(Repeatable for credit) Thesis students register for a total of 6 credit hours, 2 to 6 hours in a single semester, distributed over several semesters if desired.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Masters Thesis

**Contact Hours:** 2-6 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**HM 61299 THESIS II 2 Credit Hours**

(Repeatable for credit) Thesis II students must continue registration each semester until all degree requirements are met.

**Prerequisite:** HM 61199; and graduate standing.

**Schedule Type:** Masters Thesis

**Contact Hours:** 2 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**HM 63022 CURRENT ISSUES IN HOSPITALITY AND TOURISM MANAGEMENT 3 Credit Hours**

Current research and management issues in hotels, resorts, restaurants, clubs and other hospitality operations are explored through the peer-reviewed and professional literature. Current tourism topics with implications for hospitality managers are included.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HM 63024 MANAGEMENT OF FOOD AND NUTRITION SERVICES 3 Credit Hours**

Management issues in healthcare, food and nutrition services, child nutrition programs and other noncommercial food services will be examined. The impact of quality standards, public policy and current societal trends upon management of noncommercial operations will be studied.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HM 63026 RESEARCH SEMINAR 1 Credit Hour**

(Repeatable once for credit) Presentation and discussion of research and projects by students and faculty. 2 credit hours to be applied toward degree requirements.

**Prerequisite:** Graduate standing.

**Corequisite:** SPAD 63098 or 63199 or 63299; or HM 61198 or 61199 or 61299.

**Schedule Type:** Seminar

**Contact Hours:** 1 other

**Grade Mode:** Standard Letter

**HM 63092 HOSPITALITY AND TOURISM MANAGEMENT PRACTICUM 1 Credit Hour**

Supervised professional experience in a hospitality or travel and tourism setting. This course is supervised by a practitioner and faculty member(s) with whom the student works closely. Course assignments are included.

**Prerequisite:** Hospitality and tourism management major; and graduate standing.

**Schedule Type:** Practical Experience

**Contact Hours:** 20 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**HM 63095 SPECIAL TOPICS IN HOSPITALITY MANAGEMENT 1-3 Credit Hours**

(Repeatable for credit) Specialized offering of a major topic within hospitality management.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 1-3 lecture

**Grade Mode:** Standard Letter

**HM 64010 HOSPITALITY AND TOURISM MANAGEMENT CAPSTONE 3 Credit Hours**

This capstone course provides a comprehensive view of the business setting of hospitality and tourism organizations. The course includes a review of the competitive business environments, competitive advantage, above-average performance and competitive strategies as they pertain to hospitality and tourism management. The course will highlight current strategic issues in hospitality and tourism management referring to the most recent literature (practitioners' literature and academic journals). The course concludes with a capstone group case analysis of a business problem in hospitality and, or tourism.

**Prerequisite:** RPTM 56000 or HM 53025; and MIS 64005 or EVAL 65510; and HM 63022, RPTM 65041 and RPTM 65047; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Satisfactory/Unsatisfactory

## Recreation, Park, and Tourism Management (RPTM)

**RPTM 16000 FOUNDATIONS OF RECREATION AND LEISURE 3 Credit Hours**

Historical examination of the park and recreation movement, sociological, economic, psychological and political considerations for the delivery of leisure and recreation services in contemporary society.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**RPTM 16001 CAREER EXPLORATION IN RECREATION, PARK, AND TOURISM MANAGEMENT 1 Credit Hour**

Introduction to career opportunities in Recreation, Park, and Tourism Management. Includes public, non-profit, and commercial settings and site visits.

**Pre/corequisite:** RPTM 16000.

**Schedule Type:** Lecture

**Contact Hours:** 1 lecture

**Grade Mode:** Standard Letter

**RPTM 26001 INTRODUCTION TO COMMUNITY INCLUSION FOR INDIVIDUALS WITH DISABILITIES 3 Credit Hours**

Interdisciplinary exploration of conceptual theoretical, philosophical and legal aspects related to inclusion of individuals with disabilities in community life.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**RPTM 26010 COMMUNITY DEVELOPMENT IN RECREATION 3 Credit Hours**

Explores the contemporary and historical roles, organization and services of public and non-profit leisure service providers. Includes various theoretical perspectives on community organization and development as well as methods available to the recreation practitioner to facilitate the development of recreation services in communities.

**Prerequisite:** RPTM 16000.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**RPTM 26030 LEADERSHIP IN RECREATION, PARKS AND TOURISM 3 Credit Hours**

Leadership concepts, principles, methods and techniques necessary for facilitating beneficial recreation activities for diverse populations.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**RPTM 26060 INTRODUCTION TO GLOBAL TOURISM (DIVG) 3 Credit Hours**

(Cross-listed with GEOG 22040) Introduction to travel and tourism around the world. Students study tourism technologies and cultural and natural environments as attractions, benefits of travel, travel ethics and sustainable development.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Diversity Global

**RPTM 26071 MAINTENANCE AND OPERATION OF AREAS AND FACILITIES 3 Credit Hours**

A systems approach for the effective maintenance and operation of areas and facilities.

**Prerequisite:** RPTM 16000.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**RPTM 26081 PRINCIPLES OF OUTDOOR RECREATION 3 Credit Hours**

Introduction to outdoor recreation including historical and cultural perspectives, outdoor recreation resources, environmental aspects, trends and management.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**RPTM 36010 RECREATION, LEISURE AND AGING 3 Credit Hours**

Knowledge and understanding of leisure and aging. Planning and implementing recreation programs and activities for enriching the lives of older persons.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**RPTM 36040 INCLUSION OF PEOPLE WITH DISABILITIES IN LEISURE SERVICES (DIVD) 3 Credit Hours**

An examination of attitudes toward people with disabilities, characteristics of various disability groups, the role and responsibility of leisure service providers to be inclusive of all individuals and techniques for adapting programs.

**Prerequisite:** RPTM 26030.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Diversity Domestic

**RPTM 36060 ENTREPRENEURIAL APPROACHES TO LEISURE AND HOSPITALITY SERVICES 3 Credit Hours**

Principles of commercial recreation and tourism services, including entrepreneurship, economic concepts of the for-profit recreation industries and management skills.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**RPTM 36075 PROGRAM DESIGN AND EVALUATION 3 Credit Hours**

Programming leisure services within a socio-cultural context, involving understanding and assessing client behavior and needs, proficiency in program design and implementation, and knowledge of evaluation methods reflective of a service-centered and benefits approach.

**Prerequisite:** RPTM 26030.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**RPTM 36081 ADVENTURE EDUCATION 3 Credit Hours**

Introduction to adventure education, the history and philosophy, initiatives, ropes courses, adventure curricula and the basics of outdoor leadership and process facilitation.

**Prerequisite:** RPTM 26030 and RPTM 26081.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**RPTM 36082 INTERPRETATION OF NATURAL AND CULTURAL RESOURCES 3 Credit Hours**

Interpretation is the art of creating intellectual and emotional bonds between people and natural and cultural resources. Interpretation is commonly practiced in parks and other protected areas, zoos, museums and a variety of tourist attractions. This course provides students with the philosophies, concepts and practical techniques necessary to plan and present effective interpretation of natural and cultural resources.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**RPTM 36083 ENVIRONMENTAL EDUCATION AND CONSERVATION 3 Credit Hours**

Environmental education helps people better understand the natural world and to develop attitudes and behaviors conducive to environmental conservation. Teaches students the foundations, principles and techniques of environmental education thus enabling students to prepare and present effective environmental education programs. Prerequisite:

None

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**RPTM 36085 LEISURE AND CULTURE (DIVD) 3 Credit Hours**

Leisure behaviors and beliefs for people from diverse cultures, factors perpetuating inequity in the United States and strategies for leisure programming in a pluralistic society.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Diversity Domestic

**RPTM 36911 WILDERNESS AND REMOTE FIRST AID FOR PROFESSIONALS AND EDUCATORS 3 Credit Hours**

Students build first aid knowledge skills and behaviors through a variety of learning strategies to individually help in an emergency. A key focus is on how to work in limited resource environments or remote environments (i.e., foreign countries, wilderness, air travel). Then students learn and demonstrate how to prepare others, and be a leader during emergencies through practical experiences. Course is taught and assessed in a cognitively, physically, and emotionally stressed manner. This course includes three weekends and include outdoors experiences. Successful completion of the course may result in American Red Cross certification and Instructor status.

**Prerequisite:** None.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 1.5 lecture, 3 lab

**Grade Mode:** Standard Letter

**RPTM 45031 SPORT TOURISM 3 Credit Hours**

(Cross-listed with SPAD 45031) Course incorporates both theoretical learning of travel for sports as a global phenomenon and application of such knowledge in hosting a sporting event with travel as the focus. The experiential, cultural and economic aspects of sport tourism are examined. Students demonstrate their ability to prepare a sport tourism plan upon the completion of the course.

**Prerequisite:** Junior or senior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**RPTM 46000 TOURISM DEVELOPMENT AND RECREATIONAL TRAVEL 3 Credit Hours**

(Cross-listed with GEOG 42040)(Slashed with RPTM 56000) Investigation of travel and tourism development using an interdisciplinary social science approach.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**RPTM 46001 PRINCIPLES AND METHODS OF COMMUNITY INCLUSION 3 Credit Hours**

(Slashed with RPTM 56001) Interdisciplinary approach to the principles and methods of designing an inclusive environment. Focus is on characteristics of disability groups and societal considerations to making adaptations and accommodations. Students complete a service learning component that focuses on inclusion of people with disabilities in community life.

**Prerequisite:** RPTM 26001.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**RPTM 46030 DYNAMICS OF LEISURE BEHAVIOR (WIC) 3 Credit Hours**

(Slashed with RPTM 56030) Analysis of leisure behavior through an examination of social-psychological theories and research.

**Prerequisite:** RPTM 36040 and RPTM 36075.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Writing Intensive Course

**RPTM 46060 ADMINISTRATION OF LEISURE SERVICES 3 Credit Hours**

(Slashed with RPTM 56060) Administrative practices of private and public leisure service agencies. Organization, philosophy, personnel and fiscal management, public relations and legal concerns are examined.

**Prerequisite:** RPTM 36040 and RPTM 36075.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**RPTM 46070 PARK PLANNING 3 Credit Hours**

(Slashed with RPTM 56070) Understanding the relationship between recreation places and the people who use them. This includes the planning, design and functioning of public and commercial recreation places. Prerequisite: RPTM 26081

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**RPTM 46091 SEMINAR FOR INTERNSHIP PREPARATION 1 Credit Hour**

(Repeatable for credit) Planning and preparation for the internship experience in leisure service settings. Students should register for this course two semesters before enrolling in the internship course.

**Prerequisite:** Recreation, Park, and Tourism Management (RPTM) major and junior standing.

**Schedule Type:** Seminar

**Contact Hours:** 1 lecture

**Grade Mode:** Satisfactory/Unsatisfactory



**RPTM 46092 INTERNSHIP IN RECREATION (ELR) 12 Credit Hours**  
(Repeatable for credit) Supervised full-time experience providing knowledge of overall agency operation in approved leisure setting.

**Prerequisite:** RPTM 46091; and senior standing; and special approval.

**Schedule Type:** Practical Experience

**Contact Hours:** 40 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**Attributes:** Experiential Learning Requirement

**RPTM 46095 SELECTED TOPICS IN RECREATION 1-3 Credit Hours**  
(Repeatable for a maximum of 6 credit hours) Selected topics dependent upon interest.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**RPTM 46096 INDIVIDUAL INVESTIGATION IN RECREATION 1-3 Credit Hours**

(Repeatable for a maximum of 6 credit hours) Independent study completed under the supervision of a faculty member. Written approval of the supervising faculty member and school director required prior to registration.

**Prerequisite:** Junior standing; and special approval.

**Schedule Type:** Individual Investigation

**Contact Hours:** 3-9 other

**Grade Mode:** Standard Letter-IP

**RPTM 56000 TOURISM DEVELOPMENT AND RECREATIONAL TRAVEL 3 Credit Hours**

Investigation of travel and tourism development using an interdisciplinary social science approach.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**RPTM 56001 PRINCIPLES AND METHODS OF COMMUNITY INCLUSION PRINCIPLES AND METHODS OF COMMUNITY INCLUSION PRINCIPLES 3 Credit Hours**

(Slashed with RPTM 46001) Interdisciplinary approach to the principles and methods of designing an inclusive environment. Focus is on characteristics of disability groups and societal consideration to making adaptations and accommodations. Students complete a service learning component that focuses on inclusion of people with disabilities in community life.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**RPTM 56030 DYNAMICS OF LEISURE BEHAVIOR 3 Credit Hours**

(Slashed with RPTM 46030) Analysis of leisure behavior through examination of social-psychological theories and research.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Grade Mode:** Standard Letter

**RPTM 56060 ADMINISTRATION OF LEISURE SERVICES 3 Credit Hours**

(Slashed with RPTM 46060) Administrative practices of private and public leisure service agencies. Organization, philosophy, personnel and fiscal management, public relations and legal concerns are examined.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**RPTM 56070 PARK PLANNING 3 Credit Hours**

(Slashed with RPTM 46070) Understanding the relationship between recreation places and the people who use them. This includes the planning, design and functioning of public and commercial recreation places.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**RPTM 65041 TOURISM AND HOSPITALITY REVIEW 3 Credit Hours**

Reviews academic tourism and hospitality literature to provide students with a theoretical and empirical understanding of the tourism phenomenon. Issues include tourist motivations; the social, cultural and environmental impacts of tourism; tourism and development; and the impact of hospitality services on tourism.

**Prerequisite:** RPTM 56000; and graduate standing.

**Schedule Type:** Lecture

**Grade Mode:** Standard Letter

**RPTM 65047 GLOBAL ISSUES OF TOURISM TRADE 3 Credit Hours**

An examination of international and intercultural changes due to travel and tourism, particularly in economic, social and environmental areas. The studies include theories and cases and form the basis upon which a sustainable tourism policy is developed. The goal of the course is to prepare students for a leadership role in tourism policy making. The course has an emphasis on reading and discussion.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Grade Mode:** Standard Letter

**RPTM 65061 PHILOSOPHICAL AND SOCIAL BASES OF LEISURE AND SPORT 3 Credit Hours**

(Slashed with RPTM 75061) Overview of philosophical and social foundations of leisure and sport. Contemporary theories and perspectives are examined.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**RPTM 75061 PHILOSOPHICAL AND SOCIAL BASES OF LEISURE AND SPORT 3 Credit Hours**

(Slashed with RPTM 65061) Overview of philosophical and social foundations of leisure and sport. Contemporary theories and perspectives are examined.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

## Sports Administration (SPAD)

### SPAD 15000 INTRODUCTION TO SPORT ADMINISTRATION 3 Credit Hours

This course is designed to introduce students to the field of sport administration. Students will be made aware of the career options available to them in the sport management profession. All course materials, assignments and class discussions will emphasize both the understanding and application of key concepts across various aspects of the sport industry. Students will also be introduced to the sport administration major curriculum and requirements. Recommend first course in the sport administration program sequences.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

### SPAD 15015 ORIENTATION TO PROFESSIONAL GOLF MANAGEMENT 1 Credit Hour

An overview of opportunities and responsibilities in the golf profession. Emphasis on concepts, techniques and practices of teaching golf skills; understanding the PGA Constitution, rules of golf, tournament golf operations and golf car fleet management.

**Prerequisite:** Special approval.

**Schedule Type:** Lecture

**Contact Hours:** 1 lecture

**Grade Mode:** Standard Letter

### SPAD 25000 SPORT IN SOCIETY (DIVD) 3 Credit Hours

Analysis of how sport relates to the social relations and cultural values of United States society. The course is framed by a critical evaluative perspective, examining how social class, ethnicity, race and gender relations contour sport practices.

**Prerequisite:** Sophomore standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Diversity Domestic

### SPAD 25092 PRACTICUM I IN SPORT ADMINISTRATION (ELR) 1-3 Credit Hours

(Repeatable for credit) A 105-hour (per credit) field experience in a sport management setting.

**Prerequisite:** Special approval from instructor.

**Schedule Type:** Practical Experience

**Contact Hours:** 7-21 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**Attributes:** Experiential Learning Requirement

### SPAD 25192 PRACTICUM IN PROFESSIONAL GOLF MANAGEMENT I (ELR) 1-3 Credit Hours

(Repeatable for a maximum of 3 credit hours) A cumulative 105-hour (per credit) on-campus seminar and field experience in a professional golf management setting.

**Prerequisite:** SPAD 15015; and special approval.

**Schedule Type:** Practical Experience

**Contact Hours:** 7-21 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**Attributes:** Experiential Learning Requirement

### SPAD 35021 GOVERNANCE IN SPORT 3 Credit Hours

Issues of governance in amateur and professional sports.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

### SPAD 35025 FACILITY MANAGEMENT 3 Credit Hours

Overview of planning, staffing, marketing and managing sport facilities and complexes. The primary emphasis in this course is on management, personnel and operations issues.

**Prerequisite:** Junior; or senior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

### SPAD 35065 HISTORY AND PHILOSOPHY OF SPORT AND PHYSICAL ACTIVITY (WIC) 3 Credit Hours

Historical and philosophical foundations of sport and physical education; a study of factors influencing pedagogical, curricular and evaluation decisions in sport and physical education programs today.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Writing Intensive Course

### SPAD 35092 PRACTICUM II IN SPORT ADMINISTRATION (ELR) 1-3 Credit Hours

(Repeatable for credit) A 105-hour (per credit) field experience in a sport management setting.

**Prerequisite:** SPAD 25092; and special approval from instructor.

**Schedule Type:** Practical Experience

**Contact Hours:** 7-21 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**Attributes:** Experiential Learning Requirement

### SPAD 35192 PRACTICUM IN PROFESSIONAL GOLF MANAGEMENT II (ELR) 1-3 Credit Hours

(Repeatable for a maximum of 3 credit hours) A cumulative 105-hour (per credit) on-campus seminar and field experience in a professional golf management setting.

**Prerequisite:** SPAD 15015 and SPAD 25192; and special approval.

**Schedule Type:** Practical Experience

**Contact Hours:** 7-21 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**Attributes:** Experiential Learning Requirement

### SPAD 45015 GOLF MANAGEMENT II 2 Credit Hours

An in-depth study of the business of golf. Topics include maintaining a high performance work environment and motivating techniques for staff, delegating assignments, managing performance problems, merchandise assortment plans, vendor relations, inventory management and merchandise display and promotion.

**Prerequisite:** SPAD 15015.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 1 lecture, 1 lab

**Grade Mode:** Standard Letter

**SPAD 45021 ORGANIZATION AND ADMINISTRATION OF ATHLETICS 3 Credit Hours**

An understanding of theories necessary to run an efficient athletic department at all levels, including budgeting, leadership and administrative theory, organizational structure, personnel, legal issues and facilities.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPAD 45022 EVENT PLANNING AND PRODUCTION 3 Credit Hours**

(Slashed with SPAD 55022) Students learn the proper planning process that all sport events undergo. Students apply these concepts in actual events that they develop and hold.

**Prerequisite:** MKTG 25010; and junior or senior standing.

**Schedule Type:** Laboratory, Lecture, Combined Lecture and Lab

**Contact Hours:** 2 lecture, 2 lab

**Grade Mode:** Standard Letter

**SPAD 45023 SPORT MARKETING 3 Credit Hours**

The course, which is designed around market planning, examines how to formulate market ideas, incorporate market research, select segmentation, targeting and positioning strategies, implement sales and promotion strategies and assess control procedures within the sport and entertainment industry.

**Prerequisite:** MKTG 25010.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPAD 45024 SPORT IN GLOBAL PERSPECTIVE 3 Credit Hours**

(Slashed with SPAD 55024) Students critically analyze how sport relates to general features of globalization and provide insight into the connection between global and local politics (including ethnic, religious, gender, environmental and sociospatial politics). The underlying assumption is that sport is part of a growing network of global interdependencies that bind human beings together.

**Prerequisite:** Senior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPAD 45026 SPORT AND THE MEDIA 3 Credit Hours**

(Slashed with SPAD 55026) Course offers an introduction to current scholarship and issues concerning sport and the media, including critical analysis of media representations with attention to gender, race, sexuality and disability; an examination of the structure of sports journalism and production; and an analysis of the role of mediated sport in culture more generally. The roles of institutions, producers, texts and audiences and their relationships to each other are examined.

**Prerequisite:** Junior or senior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPAD 45027 PUBLIC RELATIONS AND PROMOTION IN SPORT 3 Credit Hours**

Issues in public relations and promotion of sport such as advertising, crisis management, sales promotion and atmospherics.

**Prerequisite:** MKTG 25010.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPAD 45029 HISTORY AND CURRENT ISSUES IN COLLEGIATE ATHLETICS 3 Credit Hours**

(Slashed with SPAD 55029) Examination of the historical development of athletics within American institutions of higher learning, with an emphasis upon concepts and ideals that underlie the developments and the major problems affecting contemporary intercollegiate athletics.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPAD 45030 SPORT ENTERPRISE (WIC) 3 Credit Hours**

This is a capstone course for sport administration majors. The course which is designed around business planning for sport, examines how to formulate business ideas, select a legal form of organization, locate financing sources, assess the market, develop a human resource management system and establish budget control.

**Prerequisite:** Senior standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Writing Intensive Course

**SPAD 45031 SPORT TOURISM 3 Credit Hours**

(Cross-listed with RPTM 45031) (Slashed with SPAD 55031) Course incorporates both theoretical learning of travel for sports as a global phenomenon and application of such knowledge in hosting a sporting event with travel as the focus. The experiential, cultural and economic aspects of sport tourism are examined. Students demonstrate their ability to prepare a sport tourism plan upon the completion of the course.

**Prerequisite:** Junior or senior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPAD 45032 SALES MANAGEMENT IN SPORT AND ENTERTAINMENT 3 Credit Hours**

(Slashed with SPAD 55032) Students are introduced to the area of sales-force management in sport and entertainment. Historical, theoretical and conceptual frameworks are examined thoroughly, as well as functions, activities and skills of the professional salesperson in the age of information and technology.

**Prerequisite:** Junior or senior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPAD 45033 CHANGE YOUR MIND, GAME AND LIFE 1 Credit Hour**

(Slashed with SPAD 55033) Course focuses students on mental training to enhance sport performance and have personal growth experiences. Course assists students to tap into their inner potential by refocusing their mind, to learn they are responsible for their own life experiences, to learn that the things they want most in their lives are found within themselves and to take responsibility for their upsets.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 1 lecture

**Grade Mode:** Standard Letter

**SPAD 45034 ESPORT MANAGEMENT 3 Credit Hours**

(Slashed with SPAD 55034) Students will learn about the esports industry, its consumer and constituents. Also, students will investigate the steps and components necessary to manage esports teams and esports events.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPAD 45035 SPORTS WAGERING 3 Credit Hours**

(Slashed with SPAD 55035) This course investigates the sports wagering industry. Students will learn about the different forms of wagering, the statutes and cases impacting sports wagering as well as impact on society of increased access to sports wagering.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPAD 45091 SEMINAR FOR INTERNSHIP PREPARATION 1 Credit Hour**

(Repeatable for credit) This course prepares the students for the internship experience in sport administration. Students must successfully complete this course prior to registering for internship.

**Prerequisite:** Minimum 2.500 overall GPA; Senior standing and special approval.

**Schedule Type:** Seminar

**Contact Hours:** 1 other

**Grade Mode:** Standard Letter

**SPAD 45092 INTERNSHIP IN SPORT ADMINISTRATION (ELR) 3-12 Credit Hours**

(Repeatable for credit) Supervised full-time experience providing knowledge of overall agency operation in approved sport management setting. 50 contact hours per credit hour.

**Prerequisite:** SPAD 35092 and SPAD 45091; minimum 2.500 overall GPA; and special approval.

**Schedule Type:** Practical Experience

**Contact Hours:** 10-40 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**Attributes:** Experiential Learning Requirement

**SPAD 45096 INDIVIDUAL INVESTIGATION IN SPORT ADMINISTRATION 1-3 Credit Hours**

(Repeatable for a maximum of 12 credit hours) Individual investigation in sport administration. Faculty approval is required.

**Prerequisite:** Sport administration major; and special approval.

**Schedule Type:** Individual Investigation

**Contact Hours:** 1-3 other

**Grade Mode:** Standard Letter-IP

**SPAD 45192 INTERNSHIP IN PROFESSIONAL GOLF MANAGEMENT (ELR) 2-12 Credit Hours**

(Repeatable for credit) Supervised full-time experience providing knowledge of overall agency operation in approved sport administration, professional golf management setting. 100 contact hours per credit hour with seminar interactive requirements.

**Prerequisite:** SPAD 15015 and SPAD 25192; and special approval.

**Schedule Type:** Practical Experience

**Contact Hours:** 13-80 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**Attributes:** Experiential Learning Requirement

**SPAD 46028 SPORT IN FILM 3 Credit Hours**

(Slashed with SPAD 56028) Critically evaluates the role of sport in film as it relates to a variety of issues in society.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPAD 46080 LEGAL ISSUES IN SPORT AND RECREATION 3 Credit Hours**

(Slashed with SPAD 56080) A discussion of legal issues as they apply to the sport and recreation industries.

**Prerequisite:** Junior or senior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPAD 46095 SPECIAL TOPICS IN SPORT ADMINISTRATION 1-3 Credit Hours**

(Repeatable for credit) Special topics in Sport Administration.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 1-3 lecture

**Grade Mode:** Standard Letter

**SPAD 50020 HIGH PERFORMANCE ATHLETES IN SPORT 3 Credit Hours**

(Slashed with SEPP 40020) This course provides an understanding of various aspects of training, coaching, and best practices in working with athletes in a high-performance environment along with an emphasis on the social-psychological factors related to the successful performance of elite level athletes and teams.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPAD 53093 VARIABLE TITLE WORKSHOP IN SPORT ADMINISTRATION 1-3 Credit Hours**

(Repeatable for credit) Topics vary in sport studies. Maximum 4 credit hours may be applied to degree.

**Prerequisite:** Graduate standing.

**Schedule Type:** Workshop

**Contact Hours:** 1-3 other

**Grade Mode:** Satisfactory/Unsatisfactory

**SPAD 55007 PRINCIPLES AND APPLICATION OF SPORT PSYCHOLOGY 3 Credit Hours**

(Cross-listed with SEPP 45007) This course encompasses the most current developments in the field of psychology with a strong foundation of the principles of human behavior in the sport and movement sciences. It incorporates sound practical theory with a focus on the application of that knowledge to be readily used by students in a range of sport and movement science careers; such as athletic training, coaching, sport management, consulting, physical education teachers and related areas with the goal to improve the sport performance and experience for all.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPAD 55022 EVENT PLANNING AND PRODUCTION 3 Credit Hours**  
(Slashed with SPAD 45022) Students learn the proper planning process that all sport events undergo. Students apply these concepts in actual events that they develop and hold.

**Prerequisite:** Graduate standing.

**Schedule Type:** Laboratory, Lecture, Combined Lecture and Lab

**Contact Hours:** 2 lecture, 2 lab

**Grade Mode:** Standard Letter

**SPAD 55024 SPORT IN GLOBAL PERSPECTIVE 3 Credit Hours**

(Slashed with SPAD 45024) Students critically analyze how sport relates to general features of globalization and provide insight into the connection between global and local politics (including ethnic, religious, gender, environmental and sociospatial politics). The underlying assumption is that sport is part of a growing network of global interdependencies that bind human beings together.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPAD 55026 SPORT AND THE MEDIA 3 Credit Hours**

(Slashed with SPAD 45026) Course offers an introduction to current scholarship and issues concerning sport and the media, including critical analysis of media representations with attention to gender, race, sexuality and disability; an examination of the structure of sports journalism and production; and an analysis of the role of mediated sport in culture more generally. The roles of institutions, producers, texts and audiences and their relationships to each other are examined.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPAD 55029 HISTORY AND CURRENT ISSUES IN COLLEGIATE ATHLETICS 3 Credit Hours**

(Slashed with SPAD 45029) Examination of the historical development of athletics within American institutions of higher learning, with an emphasis upon concepts and ideals that underlie the developments and the major problems affecting contemporary intercollegiate athletics.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPAD 55031 SPORT TOURISM 3 Credit Hours**

(Cross-listed with RPTM 45031) (Slashed with SPAD 45031) Course incorporates both theoretical learning of travel for sports as a global phenomenon and application of such knowledge in hosting a sporting event with travel as the focus. The experiential, cultural and economic aspects of sport tourism are examined. Students demonstrate their ability to prepare a sport tourism plan upon the completion of the course.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPAD 55032 SALES MANAGEMENT IN SPORT AND ENTERTAINMENT 3 Credit Hours**

(Slashed with SPAD 45032) Students are introduced to the area of sales-force management in sport and entertainment. Historical, theoretical and conceptual frameworks are examined thoroughly, as well as functions, activities and skills of the professional salesperson in the age of information and technology.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPAD 55033 CHANGE YOUR MIND, GAME AND LIFE 1 Credit Hour**

(Slashed with SPAD 45033) Course focuses students on mental training to enhance sport performance and have personal growth experiences. Course assists students to tap into their inner potential by refocusing their mind, to learn they are responsible for their own life experiences, to learn that the things they want most in their lives are found within themselves and to take responsibility for their upsets.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 1 lecture

**Grade Mode:** Standard Letter

**SPAD 55034 ESPORT MANAGEMENT 3 Credit Hours**

(Slashed with SPAD 45034) Students will learn about the esports industry, its consumer and constituents. Also, students will investigate the steps and components necessary to manage esports teams and esports events.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPAD 55035 SPORTS WAGERING 3 Credit Hours**

(Slashed with SPAD 45035) This course investigates the sports wagering industry. Students will learn about the different forms of wagering, the statutes and cases impacting sports wagering as well as impact on society of increased access to sports wagering. Prerequisite: Graduate Standing

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture, 0 lab, 0 other

**Grade Mode:** Standard Letter

**SPAD 55300 MOTIVATION IN SPORT, PERFORMANCE, AND MOVEMENT SETTINGS 3 Credit Hours**

(Slashed with SEPP 45300) This course provides an in-depth and wide-ranging look at motivational theories and its application to sport, performance and physical activity. It combines the many theoretical concepts of the diverse frameworks and principles with a survey of motivational interventions performed in the sport domain. Students will leave the class with a rigorous and comprehensive knowledge of constructs, cutting-edge research, effective interventions and future outlook of motivation in sport.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPAD 56028 SPORT IN FILM 3 Credit Hours**

(Slashed with SPAD 46028) Critically evaluates the role of sport in film as it relates to a variety of issues in society.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter



**SPAD 56030 DYNAMICS OF LEISURE BEHAVIOR 3 Credit Hours**

(Cross-listed with RPTM 46030) Analysis of leisure behavior through examination of social-psychological theories and research.

**Prerequisite:** RPTM 36040 and RPTM 36075; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPAD 56080 LEGAL ISSUES IN SPORT AND RECREATION 3 Credit Hours**

(Slashed with SPAD 46080) A discussion of legal issues as they apply to the sport and recreation industries.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPAD 63018 ETHICS IN SPORT 3 Credit Hours**

(Slashed with SPAD 73018) Examination of selected situations in sport from an ethical reasoning perspective. Students undertake a problem-oriented case study approach that is based upon contemporary moral issues and moral theory.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPAD 63091 RESEARCH SEMINAR 1 Credit Hour**

(Slashed with SPAD 73091) Presentation and discussion of research by faculty and students. Maximum 2 credit hours may be applied toward degree requirements.

**Prerequisite:** Graduate standing.

**Schedule Type:** Seminar

**Contact Hours:** 1 other

**Grade Mode:** Satisfactory/Unsatisfactory

**SPAD 63096 INDIVIDUAL INVESTIGATION IN SPORT ADMINISTRATION 1-3 Credit Hours**

(Repeatable for maximum 6 credit hours) Independent study completed under the supervision of a faculty member. Written approval of supervising faculty member and school director required prior to registration.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Individual Investigation

**Contact Hours:** 1-3 other

**Grade Mode:** Standard Letter-IP

**SPAD 63098 RESEARCH 1-6 Credit Hours**

(Repeatable for credit) Research carried out by the student under the supervision of a faculty member.

**Prerequisite:** Graduate standing.

**Schedule Type:** Research

**Contact Hours:** 3-18 other

**Grade Mode:** Standard Letter-IP

**SPAD 63195 SPECIAL TOPICS IN SPORT ADMINISTRATION 1-3 Credit Hours**

(Repeatable for credit) Selected and varied topics of relevance in sport administration.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 1-3 lecture

**Grade Mode:** Standard Letter

**SPAD 63199 THESIS I 2-6 Credit Hours**

(Repeatable for credit) Highly-individualized investigative study resulting in developing and writing a scholarly, comprehensive paper. Thesis students must register for a total of 6 credit hours, 2 to 6 credit hours in a semester distributed over several semesters if desired.

**Prerequisite:** Graduate standing.

**Schedule Type:** Masters Thesis

**Contact Hours:** 6-18 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**SPAD 63299 THESIS II 2 Credit Hours**

Highly-individualized investigative study resulting in developing and writing a scholarly, comprehensive paper. Thesis students must continue registration each semester until all degree requirements are met.

**Prerequisite:** SPAD 63199; and graduate standing.

**Schedule Type:** Masters Thesis

**Contact Hours:** 6 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**SPAD 65006 CONTEMPORARY ISSUES IN SPORT MANAGEMENT 3 Credit Hours**

(Slashed with SPAD 75006) A comprehensive examination of current topics impacting administrations of professional and amateur sport programs from the local to international level.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPAD 65008 SOCIOLOGY OF SPORT AND PHYSICAL ACTIVITY 3 Credit Hours**

(Slashed with SPAD 75008) Sociological analysis of sport from a theoretical and empirical perspective.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPAD 65021 ORGANIZATION AND MANAGEMENT OF SPORTS PROGRAMS 3 Credit Hours**

A study of the pragmatic understanding necessary in the organization and management of a sports program at the high school, college or professional level.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPAD 65031 SOCIAL PSYCHOLOGY OF SPORT 3 Credit Hours**

(Slashed with SPAD 75031) Psychological, social and developmental factors of participation and behavior in sport exercise and recreational activities. Theoretical and applied perspectives addressed.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPAD 65033 SPORT LAW 3 Credit Hours**

Course provides students with a basic understanding of tort, contract and constitutional law in relation to sport.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPAD 65034 CONTEMPORARY SPORT LAW 3 Credit Hours**

(Slashed with SPAD 75034) Legal principles of antitrust law, injunctions, labor law and agency in sport, with a focus on professional sports.

**Prerequisite:** SPAD 65033; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPAD 65036 SPORT IN HIGHER EDUCATION 3 Credit Hours**

Identification of contemporary problems and issues in collegiate sport, their history and the role of sport in colleges and universities now and in the future.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPAD 65037 NATIONAL COLLEGIATE ATHLETIC ASSOCIATION COMPLIANCE ADMINISTRATION 3 Credit Hours**

This course introduces students to basic NCAA compliance principles and the NCAA rules that affect the administration of a college athletic department. This course offers an understanding of the structure and function of a Division I compliance operation and explores compliance at the Divisions II & III level. The governing principles of institutional control and ethical conduct will be explored from a compliance perspective.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPAD 65038 SPORT PROMOTION AND FUNDRAISING 3 Credit Hours**

(Slashed with SPAD 75038) Analysis of contemporary sports promotions strategies, as well as promotion of fundraising tactics.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPAD 65039 FINANCIAL ASPECTS OF SPORT 3 Credit Hours**

Review of basic accounting, sources and uses of funds, capital budgeting, leasing and investments as they apply in a sports context. Students are introduced to financial software used in the sport industry.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPAD 65040 SPORT ECONOMICS 3 Credit Hours**

Course provides students with key economic theories and principles as applied to the sport industry.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPAD 65042 LEADERSHIP OF SPORT 3 Credit Hours**

Study of theoretical and applied constructs foundational to the leadership behavior applied to sport.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPAD 65045 SPORT MARKETING 3 Credit Hours**

Students develops an understanding of strategic marketing concepts and principles as they apply to the context of sport and entertainment. Students examine a variety of topics related to the marketing mix, consumer/fan behavior and research methodology. They also explore sport, entertainment and business organization relationships.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPAD 65046 FACILITY MANAGEMENT AND OPERATIONS 3 Credit Hours**

Analysis of management competencies necessary to operate sport facilities. Conceptual and technical aspects of planning and design are introduced.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPAD 65048 INTRAMURAL AND CLUB SPORT ADMINISTRATION 3 Credit Hours**

Students focus on developing an understanding of how these programs work and what role they play in various recreational environments. Course emphasizes decision-making techniques and communication skills leading to effective planning, organizing and managing a recreational sports-related service or product.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPAD 65092 INTERNSHIP IN SPORT ADMINISTRATION 2-4 Credit Hours**

(Repeatable for credit) Field experience involving supervised contact with sport administrators. Students work as an understudy with these administrators in all phases of their positions.

**Prerequisite:** Graduate standing and special approval.

**Schedule Type:** Practical Experience

**Contact Hours:** 13-27 other

**Grade Mode:** Standard Letter-IP

**SPAD 73018 ETHICS IN SPORT 3 Credit Hours**

(Slashed with SPAD 63018) Examination of selected situations in sport from an ethical reasoning perspective. Students undertake a problem-oriented case study approach that is based upon contemporary moral issues and moral theory.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPAD 73091 RESEARCH SEMINAR 1 Credit Hour**

(Slashed with SPAD 63091) Presentation and discussion of research by faculty and students. Maximum 2 credit hours may be applied toward degree requirements.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Seminar

**Contact Hours:** 1 other

**Grade Mode:** Satisfactory/Unsatisfactory

**SPAD 75006 CONTEMPORARY ISSUES IN SPORT MANAGEMENT 3****Credit Hours**

(Slashed with SPAD 65006) A comprehensive examination of current topics impacting administrations of professional and amateur sport programs from the local to international level.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPAD 75008 SOCIOLOGY OF SPORT AND PHYSICAL ACTIVITY 3****Credit Hours**

(Slashed with SPAD 65008) Sociological analysis of sport from a theoretical and empirical perspective.

**Prerequisite:** SPAD 75006; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPAD 75031 SOCIAL PSYCHOLOGY OF SPORT 3 Credit Hours**

(Slashed with SPAD 65031) Psychological, social and developmental factors of participation and behavior in sport exercise and recreational activities. Theoretical and applied perspectives addressed.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPAD 75034 CONTEMPORARY SPORT LAW 3 Credit Hours**

(Slashed with SPAD 65034) Legal principles of antitrust law, injunctions, labor law and agency in sport, with a focus on professional sports.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPAD 75038 SPORT PROMOTION AND FUNDRAISING 3 Credit Hours**

(Slashed with SPAD 65038) Analysis of contemporary sports promotions strategies, as well as promotion of fundraising tactics.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

## Sport and Recreation Management (SRM) Career and Academic Advising - Graduate Certificate

**College of Education Health and Human Services**

School of Foundations, Leadership and Administration

300 White Hall

Kent Campus

330-672-2012

[www.kent.edu/ehhs/fla](http://www.kent.edu/ehhs/fla)

### Description

The Career and Academic Advising graduate certificate meets the needs of students interested in learning more about academic and career advising and/or aspiring to work in academic advising or career services or to become a credentialed career development facilitator. Furthermore, this certificate program is appropriate for professionals

currently employed in career services settings, including counseling supervisors, counselors, career advisors, career specialists, school counselors, workforce development specialists and academic advisors.

### Fully Offered At:

- Kent Campus

### Admission Requirements

- Bachelor's degree from an accredited college or university
- Minimum 3.000 undergraduate GPA is preferred<sup>1</sup>
- Official transcript(s)
- Résumé or vita
- Goal statement
- Interview
- Two letters of recommendation

For more information about graduate admission, please visit the Graduate Studies website.

<sup>1</sup> Post-baccalaureate work may be taken into consideration when interpreting the GPA for admission.

### Program Requirements

#### Certificate Requirements

Code	Title	Credit Hours
<b>Certificate Requirements</b>		
CES 68182	CAREER COUNSELING	3
HIED 66653	COLLEGE STUDENT DEVELOPMENT: THEORY AND PRACTICE	3
HIED 66679	CAREER ADVISING: THEORY AND PRACTICE	3
Certificate Electives, choose from the following:		6
CES 67531	COUNSELING SKILLS AND TECHNIQUES	
HIED 66733	INTERPERSONAL AND GROUP DYNAMICS IN EDUCATIONAL ORGANIZATIONS	
HIED 66492	INTERNSHIP IN HIGHER EDUCATION ADMINISTRATION <sup>1</sup>	
HIED 66677	WORKFORCE, ECONOMIC AND COMMUNITY DEVELOPMENT IN COMMUNITY COLLEGES	
HIED 66681	ADMINISTRATION OF ADVISING SERVICES	
Other course as approved by faculty advisor		
Minimum Total Credit Hours:		15

<sup>1</sup> Students must have completed at least 6 credit hours in the certificate program before applying for an internship. Internships must be in settings suitable for academic and career advising services.

### Graduation Requirements

Minimum Certificate GPA	Minimum Overall GPA
3.000	

- Students declared in a doctoral degree should enroll in the doctoral level version of these courses, if offered.

# College Teaching - Graduate Certificate

## College of Education Health and Human Services

School of Foundations, Leadership and Administration  
300 White Hall  
Kent Campus  
330-672-2012  
www.kent.edu/ehhs/fla

## Description

**Admission to the online offering of the College Teaching graduate certificate has been suspended temporarily as of Fall 2019.**

The College Teaching graduate certificate enhances teaching competencies at the post-secondary level. It is particularly appropriate for graduate students from any discipline interested in a career in college teaching, but also for adjunct and full-time faculty who are currently engaged in a career in academia.

Students may select from a variety of courses that emphasize the knowledge and practice of college teaching and the organizational culture of postsecondary education institutions. The certificate includes an internship in college teaching.

Additionally, students in the certificate program are encouraged to take effective teaching courses offered within their discipline specialty as part of the certificate requirements. This certificate program is grounded in the latest educational research of best practices in college teaching, and is designed to offer and/or enhance teaching and learning experiences.

### Fully Offered At:

- Kent Campus

## Admission Requirements

- Master's degree
- Minimum 3.250 graduate GPA on a 4.000 point scale
- Official transcript(s)
- Résumé or vita
- Goal statement
- Two letters of recommendation

For more information about graduate admission, please visit the Graduate Studies website.

## Program Requirements

### Certificate Requirements

Code	Title	Credit Hours
<b>Certificate Requirements</b>		
HIED 66594	INTERNSHIP IN COLLEGE TEACHING <sup>1</sup>	3
HIED 66660	FACULTY ROLES AND RESPONSIBILITIES	3
Certificate Electives, choose from the following:		
HIED 66600	HISTORY OF HIGHER EDUCATION	3
HIED 66601	THE PRIVATE LIBERAL ARTS COLLEGE	3

or HIED 66658	THE COMMUNITY COLLEGE
HIED 66652	LAW AND HIGHER EDUCATION
HIED 66653	COLLEGE STUDENT DEVELOPMENT: THEORY AND PRACTICE
HIED 66656	HIGHER EDUCATION CURRICULUM
HIED 66671	THE ADMINISTRATION OF MULTICULTURALISM AND DIVERSITY IN HIGHER EDUCATION
HIED 66749	ASSESSMENT AND EVALUATION IN HIGHER EDUCATION
Other approved elective	

Minimum Total Credit Hours:

15

- <sup>1</sup> Internship may be waived pending faculty approval. Students will complete the minimum credit hours toward certificate completion by taking more elective courses.

## Graduation Requirements

Minimum Certificate GPA	Minimum Overall GPA
3.000	

- Students declared in a doctoral degree should enroll in the doctoral level version of these courses, if offered.

# Community College Leadership - Graduate Certificate

## College of Education Health and Human Services

School of Foundations, Leadership and Administration  
300 White Hall  
Kent Campus  
330-672-2012  
www.kent.edu/ehhs/fla

## Description

**Admission to the Graduate Certificate in Community College Leadership has been temporarily suspended as of fall 2020.**

The Community College Leadership graduate certificate prepares and enhances the skills of administrators, staff and faculty in community colleges and regional campuses to meet the leadership challenges posed by social, political and economic changes. The program provides knowledge and skills development in the areas of administration; curriculum; contemporary issues; student development and learning; community college purpose and roles; and workforce, economic and community development. This certificate is designed in alignment with the competencies for community college leaders established by the American Association of Community Colleges.

### Fully Offered At:

- Online
- Kent Campus

## Admission Requirements

- Bachelor's degree from an accredited college or university (master's preferred)
- Minimum 3.000 undergraduate GPA<sup>1</sup>

- Official transcript(s)
- Résumé or vita
- Goal statement
- Two letters of recommendation

For more information about graduate admission, please visit the Graduate Studies website.

<sup>1</sup> Post-baccalaureate work will be taken into consideration when interpreting GPA for admission.

## Program Requirements

### Certificate Requirements

Code	Title	Credit Hours
<b>Certificate Requirements</b>		
HIED 66492	INTERNSHIP IN HIGHER EDUCATION ADMINISTRATION <sup>1</sup>	3
HIED 66653	COLLEGE STUDENT DEVELOPMENT: THEORY AND PRACTICE	3
HIED 66658	THE COMMUNITY COLLEGE	3
HIED 66677	WORKFORCE, ECONOMIC AND COMMUNITY DEVELOPMENT IN COMMUNITY COLLEGES	3
HIED 66678	ISSUES AND TRENDS IN COMMUNITY COLLEGE ADMINISTRATION	3
Minimum Total Credit Hours:		15

<sup>1</sup> Students must have completed at least 6 credit hours in the certificate program before applying for an internship. Internships must be at community colleges or regional/extended campuses. With advisor approval this requirement can be substituted with one additional elective course. Elective with HIED 66492 waiver may include HIED 66656.

### Graduation Requirements

Minimum Certificate GPA	Minimum Overall GPA
3.000	

- Students declared in a doctoral degree should enroll in the doctoral level version of these courses, if offered.

## Cultural Foundations - M.A.

### College of Education Health and Human Services

School of Foundations, Leadership and Administration  
300 White Hall  
Kent Campus  
330-672-2012  
[www.kent.edu/ehhs/fla](http://www.kent.edu/ehhs/fla)

### Description

The Master of Arts degree in Cultural Foundations explores education through a range of disciplinary and interdisciplinary perspectives: philosophy of education, history of education, sociology of education, comparative/international education, anthropology of education, gender studies, multicultural studies and religious studies. Students examine

the social contexts of education, with particular emphasis on structural inequalities, issues of access, and the distribution of educational opportunity, normative considerations about the purposes of education, and the transformative potential of education.

The degree program promotes students' responsibilities as change agents in a range of educational settings, including schools, cultural and religious institutions and civic associations. Graduates of the program have the knowledge and skills to interpret and critique educational policies and practices and to promote innovative practices in a variety of educational settings, domestically and worldwide.

Students in the M.A. degree write a thesis on an educational topic of their own choosing. Thesis students work closely with their academic supervisor to generate a thesis topic and design a research study or undertake a scholarly analysis of an issue of interest to the student.

### Fully Offered At:

- Kent Campus

### Admission Requirements

- Bachelor's degree from an accredited college or university for unconditional admission
- Minimum 3.000 undergraduate GPA on a 4.000 point scale for unconditional admission
- Official transcript(s)
- Goal statement
- Two letters of recommendation
- English language proficiency - all international students must provide proof of English language proficiency (unless they meet specific exceptions) by earning one of the following:
  - Minimum 550 TOEFL PBT score (paper-based version)
  - Minimum 79 TOEFL IBT score (Internet-based version)
  - Minimum 77 MELAB score
  - Minimum 6.5 IELTS score
  - Minimum 58 PTE score
  - Minimum 110 Duolingo English Test score

Applicants will be assessed holistically, considering academic credentials, related professional experience, academic or professional references, scholarly activities and professional activities, among others. For more information about graduate admissions, please visit the Graduate Studies admission website. For more information on international admission, visit the Office of Global Education's admission website.

### Program Learning Outcomes

Graduates of the program will be able to:

1. Demonstrate an understanding of the social, cultural, economic and political assumptions shaping educational policies and reforms in the United States and other societies.
2. Understand the nature of the democratic challenge for schooling in answering such foundational questions as: 'What should be taught?' 'Who should be taught?' and 'Who should teach?'
3. Demonstrate an understanding of the convergence of social class, race, gender, sexual orientation and disability as barriers



to and opportunities for educational change, domestically and internationally.

## Program Requirements

### Major Requirements

Code	Title	Credit Hours
<b>Major Requirements</b>		
CULT 60199	THESIS I	6
CULT 65530	FOUNDATIONS OF EDUCATION AND HUMAN SERVICES	3
EPSY 65520	CHILD AND ADOLESCENT DEVELOPMENT	3
or EPSY 65521	ADULT DEVELOPMENT	
or EPSY 65523	LIFE SPAN DEVELOPMENT	
or EPSY 65524	LEARNING THEORIES	
EVAL 65511	RESEARCH IN EDUCATIONAL SERVICES	3
Major Electives, choose from the following:		15
CULT 60030	SOCIAL CONTEXTS OF EDUCATION: CONTEMPORARY ISSUES AND THEORY	
CULT 69510	CLASSICS IN PHILOSOPHY OF EDUCATION	
CULT 69521	MULTICULTURAL EDUCATIONAL PRACTICE AND POLICY	
CULT 69522	ETHICS IN PROFESSIONAL PRACTICE	
CULT 69530	MULTICULTURAL THEORIES AND SCHOLARSHIP IN EDUCATION	
CULT 69560	CONTEMPORARY PHILOSOPHY OF EDUCATION	
CULT 69564	HISTORY OF AMERICAN EDUCATION	
CULT 69569	INTERNATIONAL EDUCATION: FOUNDATIONAL ISSUES	
CULT 69571	GLOBALIZATION AND EDUCATION	
CULT 69575	ANTHROPOLOGY AND EDUCATION	
CULT 69582	SOCIAL THEORIES IN EDUCATION	
CULT 69591	SEMINAR IN CULTURAL FOUNDATIONS	
CULT 69595	SPECIAL TOPICS IN CULTURAL FOUNDATIONS	
CULT 69691	VARIABLE CONTENT SEMINAR: GREAT IDEAS IN EDUCATION	
Other electives with faculty advisor approval		
Minimum Total Credit Hours:		30

### Graduation Requirements

- Students have six years from the term of first enrollment to complete the program.

## Cultural Foundations - M.Ed.

### College of Education Health and Human Services

School of Foundations, Leadership and Administration  
300 White Hall  
Kent Campus  
330-672-2012  
[www.kent.edu/ehhs/fla](http://www.kent.edu/ehhs/fla)

### Description

The Master of Education degree in Cultural Foundations explores education through a range of disciplinary and interdisciplinary perspectives: philosophy of education, history of education, sociology

of education, comparative/international education, anthropology of education, gender studies, multicultural studies and religious studies. Students examine the social contexts of education, with particular emphasis on structural inequalities, issues of access and the distribution of educational opportunity, normative considerations about the purposes of education, and the transformative potential of education.

The degree program promotes students' responsibilities as change agents in a range of educational settings, including schools, cultural and religious institutions and civic associations. Graduates of the program have the knowledge and skills to interpret and critique educational policies and practices and to promote innovative practices in a variety of educational settings, domestically and worldwide.

### Fully Offered At:

- Kent Campus

## Admission Requirements

- Bachelor's degree from an accredited college or university for unconditional admission
- Minimum 3.000 undergraduate GPA on a 4.000 point scale for unconditional admission
- Official transcript(s)
- Goal statement
- Two letters of recommendation
- English language proficiency - all international students must provide proof of English language proficiency (unless they meet specific exceptions) by earning one of the following:
  - Minimum 550 TOEFL PBT score (paper-based version)
  - Minimum 79 TOEFL IBT score (Internet-based version)
  - Minimum 77 MEL AB score
  - Minimum 6.51 ELTS score
  - Minimum 58 PTE score
  - Minimum 110 Duolingo English Test score

Applicants will be assessed holistically, considering academic credentials, related professional experience, academic or professional references, scholarly activities and professional activities, among others. For more information about graduate admissions, please visit the Graduate Studies admission website. For more information on international admission, visit the Office of Global Education's admission website.

## Program Learning Outcomes

Graduates of the program will be able to:

1. Demonstrate an understanding of the social, cultural, economic and political assumptions shaping educational policies and reforms in the United States and other societies.
2. Understand the nature of the democratic challenge for schooling in answering such foundational questions as: 'What should be taught?' 'Who should be taught?' and 'Who should teach?'
3. Demonstrate an understanding of the convergence of social class, race, gender, sexual orientation and disability as barriers to and opportunities for educational change, domestically and internationally.

## Program Requirements

### Major Requirements

Code	Title	Credit Hours
<b>Major Requirements</b>		
CULT 65530	FOUNDATIONS OF EDUCATION AND HUMAN SERVICES	3
EPSY 65520	CHILD AND ADOLESCENT DEVELOPMENT	3
or EPSY 65521	ADULT DEVELOPMENT	
or EPSY 65523	LIFE SPAN DEVELOPMENT	
or EPSY 65524	LEARNING THEORIES	
Eval 65511	RESEARCH IN EDUCATIONAL SERVICES	3
Major Electives, choose from the following:		21
CULT 60030	SOCIAL CONTEXTS OF EDUCATION: CONTEMPORARY ISSUES AND THEORY	
CULT 69510	CLASSICS IN PHILOSOPHY OF EDUCATION	
CULT 69521	MULTICULTURAL EDUCATIONAL PRACTICE AND POLICY	
CULT 69522	ETHICS IN PROFESSIONAL PRACTICE	
CULT 69530	MULTICULTURAL THEORIES AND SCHOLARSHIP IN EDUCATION	
CULT 69560	CONTEMPORARY PHILOSOPHY OF EDUCATION	
CULT 69564	HISTORY OF AMERICAN EDUCATION	
CULT 69569	INTERNATIONAL EDUCATION: FOUNDATIONAL ISSUES	
CULT 69571	GLOBALIZATION AND EDUCATION	
CULT 69575	ANTHROPOLOGY AND EDUCATION	
CULT 69582	SOCIAL THEORIES IN EDUCATION	
CULT 69591	SEMINAR IN CULTURAL FOUNDATIONS	
CULT 69595	SPECIAL TOPICS IN CULTURAL FOUNDATIONS	
CULT 69691	VARIABLE CONTENT SEMINAR: GREAT IDEAS IN EDUCATION	
Other electives with faculty advisor approval		
Minimum Total Credit Hours:		30

### Graduation Requirements

- Students have six years from the term of first enrollment to complete the program.

## Cultural Foundations - Ph.D.

### College of Education Health and Human Services

School of Foundations, Leadership and Administration

300 White Hall

Kent Campus

330-672-2012

[www.kent.edu/ehhs/fla](http://www.kent.edu/ehhs/fla)

### Description

The Ph.D degree in Cultural Foundations explores education through a range of disciplinary and interdisciplinary perspectives: philosophy of education, history of education, sociology of education, comparative/international education, anthropology of education, gender studies, multicultural studies and religious studies. Students examine the social contexts of education, with particular emphasis on critical questions

concerning structural inequalities and considerations of access to education, distribution of educational opportunity and successful navigation of educational systems, normative considerations about the purposes of education, and interpretive understandings of the nature of educational experience and the transformative potential of education.

Students in the doctoral program work closely with faculty to generate dissertation topics that seek to add something new to existing scholarship in their chosen area of study within the field of education.

Graduates have the knowledge, critical understandings and interpretive skills to analyze and assess educational theories, policies and practices, as well as to lead and promote innovative practices in a range of educational settings and social contexts. Recent graduates have embarked on new careers or been promoted in their existing institutions in governmental agencies, K-12 school systems, institutions of higher education and nongovernmental organizations, both nationally and internationally.

### Fully Offered At:

- Kent Campus

## Admission Requirements

- Master's degree from an accredited college or university for unconditional admission
- Minimum 3.500 graduate GPA on a 4.000 point scale for unconditional admission
- Official transcript(s)
- Résumé or vita
- Goal statement
- Two letters of recommendation
- Writing sample
- Interview
- English language proficiency - all international students must provide proof of English language proficiency (unless they meet specific exceptions) by earning one of the following:
  - Minimum 550 TOEFL PBT score (paper-based version)
  - Minimum 79 TOEFL IBT score (Internet-based version)
  - Minimum 77 MELAB score
  - Minimum 6.5 IELTS score
  - Minimum 58 PTE score
  - Minimum 110 Duolingo English Test score

Applicants will be assessed holistically, considering academic credentials, related professional experience, academic or professional references, scholarly activities and professional activities, among others. For more information about graduate admissions, please visit the Graduate Studies admission website. For more information on international admission, visit the Office of Global Education's admission website.

## Program Learning Outcomes

Graduates of the program will be able to:

1. Analyze the social, cultural, economic and political conditions that shape education in domestic and international contexts.
2. Analyze pressing social issues related to education from a foundational point of view.

3. Critically engage a range of theoretical approaches to understanding education.
4. Examine dynamics of social differentiation, power and injustice related to education in and out of school.
5. Theorize education's contribution to social justice.
6. Develop facility with the range of social science and humanities-oriented research methods and modes of analysis in the field of social foundations of education.
7. Conduct independent research resulting in an original contribution to knowledge in the field of cultural foundations of education.
8. Bring foundational research to bear on the intellectual and organizational aspects of their professions, schools and communities.

## Program Requirements

### Major Requirements

Code	Title	Credit Hours
<b>Major Requirements</b>		
CULT 80050	HUMANITIES-ORIENTED RESEARCH IN EDUCATION	3
CULT 80090	DOCTORAL RESIDENCY SEMINAR	3
CULT 80199	DISSERTATION I <sup>1</sup>	30
CULT 89581	PROSEMINAR IN CULTURAL FOUNDATIONS	3
Evaluation and Measurement (EVAL) doctoral-level electives, as approved by advisor		6
Specialized research as approved by faculty advisor		3
Major Focus Electives, choose from the following:		30
CULT 70093	VARIABLE TOPIC WORKSHOP IN CULTURAL FOUNDATIONS	
CULT 79510	CLASSICS IN PHILOSOPHY OF EDUCATION	
CULT 79530	MULTICULTURAL THEORIES AND SCHOLARSHIP IN EDUCATION	
CULT 79560	CONTEMPORARY PHILOSOPHY OF EDUCATION	
CULT 79564	HISTORY OF AMERICAN EDUCATION	
CULT 79569	INTERNATIONAL EDUCATION: FOUNDATIONAL ISSUES	
CULT 79571	GLOBALIZATION AND EDUCATION	
CULT 79575	ANTHROPOLOGY AND EDUCATION	
CULT 80030	SOCIAL CONTEXTS OF EDUCATION: CONTEMPORARY ISSUES AND THEORY	
CULT 89521	MULTICULTURAL EDUCATIONAL PRACTICE AND POLICY	
CULT 89522	ETHICS IN PROFESSIONAL PRACTICE	
CULT 89571	COMPARATIVE AND INTERNATIONAL EDUCATION	
CULT 89582	SOCIAL THEORIES IN EDUCATION	
CULT 89591	SEMINAR IN CULTURAL FOUNDATIONS	
CULT 89592	ADVANCED PRACTICUM AND INTERNSHIP IN CULTURAL FOUNDATIONS	
CULT 89595	SPECIAL TOPICS IN CULTURAL FOUNDATIONS	
CULT 89596	INDIVIDUAL INVESTIGATION IN CULTURAL FOUNDATIONS	
CULT 89598	RESEARCH IN CULTURAL FOUNDATIONS	
CULT 89691	VARIABLE CONTENT SEMINAR: GREAT IDEAS IN EDUCATION	

Other courses, as approved by faculty advisor

Minimum Total Credit Hours:

78

- <sup>1</sup> Upon admission to candidacy each doctoral candidate, must register for CULT 80199. It is expected that a doctoral candidate will continuously register for Dissertation I for a total of 30 credit hours, and thereafter CULT 80299, each semester until all requirements for the degree have been met.

## Graduation Requirements

Students whose background is not related to the cultural foundations of education may be required to complete a maximum of 9 additional credit hours of foundational coursework. After admission to the program, students plan a program of study with their respective faculty advisory committee headed by their advisor. A midpoint formative review presentation and comprehensive exam are required.

## Disability Studies and Community Inclusion - Graduate Certificate

**College of Education Health and Human Services**  
 School of Foundations, Leadership and Administration  
 300 White Hall  
 Kent Campus  
 330-672-2012  
[www.kent.edu/ehhs/fla](http://www.kent.edu/ehhs/fla)

## Description

The Disability Studies and Community Inclusion graduate certificate prepares students to be leaders in promoting the inclusion of people with disabilities in all aspects of life and across the lifespan. The focus is to understand the nature, meaning, health, social and political implications and consequences of disability within the context of a diverse and global world. Following guidelines from the Society for Disability Studies, the certificate is interdisciplinary, challenges the view of disability as an individual defect that can be remedied through medical intervention and includes national and international perspectives, policies, literature, culture and history.

### Fully Offered At:

- Kent Campus

## Admission Requirements

- Official transcript(s)
- Goal Statement and professional objectives
- Two letters of recommendation

For more information about graduate admissions, please visit the Graduate Studies admission website. For more information on international admission, visit the Office of Global Education's admission website.

## Program Requirements

### Certificate Requirements

Code	Title	Credit Hours
<b>Certificate Requirements</b>		
RHAB 67725	PSYCHOSOCIAL IMPACT OF DISABILITY	3
SRM 56001		3
SRM 63096		1
Certificate Electives, choose from the following:		10
ANTH 58250	MEDICAL ANTHROPOLOGY	
CI 65037	ADAPTED PHYSICAL EDUCATION	
COMM 55459	COMMUNICATION AND CONFLICT	
EDLE 66518	SCHOOL AND SPECIAL EDUCATION LAW	
HDFS 54020	ADOLESCENT DEVELOPMENT	
HDFS 54021	FAMILY INTERVENTION ACROSS THE LIFE SPAN	
HED 54051	BIOBEHAVIORAL ASPECTS OF DISEASE PREVENTION IN HEALTH EDUCATION AND PROMOTION	
HED 57091	CURRENT ISSUES IN HEALTH EDUCATION AND PROMOTION	
HED 64050	HEALTH BEHAVIOR	
MUS 50295	SPECIAL TOPICS IN MUSIC	
PSYC 61580	SOCIAL PSYCHOLOGY	
SOC 52558	WEALTH, POVERTY AND POWER	
SOC 52563	SOCIOLOGY OF HEALTH AND HEALTH CARE	
SPED 53030	APPLIED BEHAVIOR ANALYSIS I: THEORY AND TECHNIQUES	
SPED 53050	CHARACTERISTICS OF STUDENTS WITH MILD/MODERATE INTERVENTION NEEDS	
SPED 53051	CHARACTERISTICS OF STUDENTS WITH MODERATE/INTENSIVE INTERVENTION NEEDS	
SPED 53070	PLANNING AND PROGRAMMING FOR TRANSITIONS	
SPED 53309	INTRODUCTION TO DEAF STUDIES	
SPED 63200	INTRODUCTION TO EXCEPTIONALITIES	
THEA 61094	COLLEGE TEACHING IN THEATRE	

Minimum Total Credit Hours: 17

### Graduation Requirements

Minimum Certificate GPA	Minimum Overall GPA
3.000	

- Students declared in a doctoral degree should enroll in the doctoral level version of these courses, if offered.

## Disability Studies and Community Inclusion - Minor

### College of Education Health and Human Services

School of Foundations, Leadership and Administration  
300 White Hall  
Kent Campus  
330-672-2012  
www.kent.edu/ehhs/fla

## Description

The Disability Studies and Community Inclusion minor prepares students to be leaders in promoting greater inclusion of people with disabilities in all aspects of life and across the lifespan. The minor enhances students' knowledge and skills by preparing them to understand and comply with the Americans with Disabilities Act (ADA); provide services to people with disabilities in a variety of settings; and understand: the nature of disabilities, the meaning of disability in society, social, political and health implications of disability, and the methods of accommodations that aid in making society more inclusive to those who live with disabilities.

### Fully Offered At:

- Kent Campus

## Admission Requirements

Admission to a minor is open to students declared in a bachelor's degree, the A.A.B. or A.A.S. degree or the A.T.S. degree (not Individualized Program major). Students declared only in the A.A. or A.S. degree or the A.T.S. degree in Individualized Program may not declare a minor. Students may not pursue a minor and a major in the same discipline.

To declare this minor, students must have attempted a minimum 12 credit hours at Kent State and earned a minimum 2.000 overall Kent State GPA. Students who have not attempted 12 credit hours at Kent State will be evaluated for admission based on their high school GPA for new students or transfer GPA for transfer students. Transfer students who have not attempted 12 credit hours of college-level coursework at Kent State and/or other institutions will be evaluated based on both their high school GPA and college GPA.

## Minor Requirements

Code	Title	Credit Hours
<b>Minor Requirements</b>		
PSYC 21211	PSYCHOLOGY OF EVERYDAY LIFE (DIVD) (KSS)	3
or SOC 32570	INEQUALITY IN SOCIETIES (DIVD)	
RPTM 26001	INTRODUCTION TO COMMUNITY INCLUSION FOR INDIVIDUALS WITH DISABILITIES	3
RPTM 46001	PRINCIPLES AND METHODS OF COMMUNITY INCLUSION	3
Minor Electives, choose from the following:		9
ANTH 48250	MEDICAL ANTHROPOLOGY (DIVG)	
ARTE 41002	ART EDUCATION: FOUNDATIONS AND CONCEPTS - SECONDARY (ELR)	
ARTE 41192	ART EDUCATION: FIELD EXPERIENCE (ELR) (WIC)	
BSCI 30130	HUMAN PHYSIOLOGY	
BUS 10123	EXPLORING BUSINESS	
COMM 26000	CRITICISM OF PUBLIC DISCOURSE (DIVD) (KHUM)	
COMM 35852	INTERCULTURAL COMMUNICATION (DIVG)	
COMM 45459	COMMUNICATION AND CONFLICT	
CRIM 26704	ISSUES IN LAW AND SOCIETY (KSS)	
DAN 27076	DANCE AS AN ART FORM (DIVG) (KFA)	
DAN 37057	DANCE FOR CHILDREN	
ENG 37101	CRITICAL RHETORICAL STUDIES OF TEXTS IN CONTEXT	

ENG 39895	SPECIAL TOPICS IN RHETORIC, COMPOSITION AND WRITING
EXSC 35022	EXERCISE LEADERSHIP
EXSC 35075	EXERCISE PROGRAMMING
EXSC 40612	EXERCISE LEADERSHIP FOR THE OLDER ADULT
EXSC 45065	EXERCISE TESTING
EXSC 45080	PHYSIOLOGY OF EXERCISE (WIC)
GERO 14029	INTRODUCTION TO GERONTOLOGY (DIVD) (KSS)
HDFS 44020	ADOLESCENT DEVELOPMENT
HDFS 44021	FAMILY INTERVENTION ACROSS THE LIFESPAN
PESP 45037	ADAPTED PHYSICAL EDUCATION
PHIL 21001	INTRODUCTION TO ETHICS (DIVG) (KHUM)
PHIL 40005	HEALTH CARE ETHICS
PLST 38003	ADMINISTRATIVE LAW AND PROCESS
POL 40320	ETHICS AND PUBLIC POLICY
PSYC 31532	SOCIAL PSYCHOLOGY
PSYC 40112	PSYCHOLOGICAL DISORDERS OF CHILDHOOD AND ADOLESCENCE
RPTM 36040	INCLUSION OF PEOPLE WITH DISABILITIES IN LEISURE SERVICES (DIVD)
SOC 22570	UNDERSTANDING DIFFERENCES AND INEQUALITY
SOC 22778	SOCIAL PROBLEMS (DIVG) (KSS)
SOC 32400	INDIVIDUAL AND SOCIETY
SOC 42563	SOCIOLOGY OF HEALTH AND HEALTH CARE
SPED 23000	INTRODUCTION TO EXCEPTIONALITIES (DIVD)
SPED 43030	APPLIED BEHAVIOR ANALYSIS I: THEORY AND TECHNIQUES
SPED 43050	CHARACTERISTICS OF STUDENTS WITH MILD/MODERATE INTERVENTION NEEDS
SPED 43051	CHARACTERISTICS OF STUDENTS WITH MODERATE/INTENSIVE INTERVENTION NEEDS
SPED 43070	PLANNING AND PROGRAMMING FOR TRANSITIONS
SPED 43309	INTRODUCTION TO DEAF STUDIES (ELR) (WIC)

Minimum Total Credit Hours: 18

## Graduation Requirements

Minimum Minor GPA	Minimum Overall GPA
2.000	2.000

- Minimum 6 credit hours in the minor must be upper-division coursework (30000 and 40000 level).
- Minimum 6 credit hours in the minor must be outside of the course requirements for any major or other minor the student is pursuing.
- Minimum 50 percent of the total credit hours for the minor must be taken at Kent State (in residence).

## Educational Leadership K-12 - Ed.S.

### College of Education Health and Human Services

School of Foundations, Leadership and Administration  
300 White Hall  
Kent Campus  
330-672-2012  
www.kent.edu/ehhs/fla

## Description

**Admission to the Education Specialist (Ed.S.) degree in Educational Leadership K-12 has been temporarily suspended as of fall 2020.**

The Educational Specialist degree in Educational Leadership–K-12 provides continuing educational opportunities for practitioners who wish to hold professional leadership positions such as director of instruction, special subject/area coordinator, director of staff development, director of research and director of pupil services.

### Fully Offered At:

- Kent Campus

## Admission Requirements

- Master's degree from an accredited college or university for unconditional admission
- Minimum 3.250 graduate GPA on a 4.000 point scale for unconditional admission
- Official transcript(s)
- Goal statement
- Two letters of recommendation
- Interview
- English language proficiency - all international students must provide proof of English language proficiency (unless they meet specific exceptions) by earning one of the following:
  - Minimum 550 TOEFL PBT score (paper-based version)
  - Minimum 79 TOEFL IBT score (Internet-based version)
  - Minimum 77 MELAB score
  - Minimum 6.5 IELTS score
  - Minimum 58 PTE score
  - Minimum 110 Duolingo English Test score

For more information about graduate admissions, please visit the Graduate Studies admission website. For more information on international admission, visit the Office of Global Education's admission website.

## Program Learning Outcomes

Graduates of this program will be able to:

1. Facilitate collaboratively the development, articulation, implementation and stewardship of a shared school vision of learning through the collection and use of data to identify school goals.
2. Sustain a school culture and instructional program conducive to student learning through collaboration, trust and a personalized learning environment with high expectations for students.
3. Create and evaluate a comprehensive, rigorous and coherent curricular and instructional school program.
4. Act in an ethical manner with integrity and fairness to ensure a school system of accountability for every student's academic and social success by modeling school principles of self-awareness, reflective practice, transparency and ethical behavior as related to their roles within the school.
5. Safeguard the values of democracy, equity and diversity within the school.



6. Evaluate the potential moral and legal consequences of decision-making in the school.
7. Promote social justice within the school to ensure that individual student needs inform all aspects of schooling.

[www.kent.edu/ehhs/fla](http://www.kent.edu/ehhs/fla)

## Description

**Admission to the Master of Education (M.Ed.) degree in Educational Leadership K-12 has been temporarily suspended as of fall 2020.**

The Master of Education degree in Educational Leadership–K-12 prepares teachers to become administrators in public and private school settings. This is an academically rigorous and experientially intense program, where future school leaders are challenged to excel and take their learning and potential to the next level by developing knowledge and understanding of current and developing leadership theories and practices in a democratic society.

### Fully Offered At:

- Kent Campus

## Admission Requirements

- Bachelor's degree from an accredited college or university for unconditional admission
- Minimum 3.000 undergraduate GPA on a 4.000 point scale for unconditional admission
- Official transcript(s)
- GRE scores required if undergraduate GPA is below 3.000
- Goal statement
- Two letters of recommendation
- Interview
- English language proficiency - all international students must provide proof of English language proficiency (unless they meet specific exceptions) by earning one of the following:
  - Minimum 550 TOEFL PBT score (paper-based version)
  - Minimum 79 TOEFL IBT score (Internet-based version)
  - Minimum 77 MELAB score
  - Minimum 6.5 IELTS score
  - Minimum 58 PTE score
  - Minimum 110 Duolingo English Test score

For more information about graduate admissions, please visit the Graduate Studies admission website. For more information on international admission, visit the Office of Global Education's admission website.

## Program Learning Outcomes

Graduates of this program will be able to:

1. Facilitate collaboratively the development, articulation, implementation and stewardship of a shared school vision of learning through the collection and use of data to identify school goals.
2. Sustain a school culture and instructional program conducive to student learning through collaboration, trust and a personalized learning environment with high expectations for students.
3. Create and evaluate a comprehensive, rigorous and coherent curricular and instructional school program.
4. Act in an ethical manner with integrity and fairness to ensure a school system of accountability for every student's academic and social success by modeling school principles of self-awareness,

## Program Requirements

### Major Requirements

Code	Title	Credit Hours
<b>Major Requirements</b>		
EVAL 65511 or EVAL 75510	RESEARCH IN EDUCATIONAL SERVICES STATISTICS I FOR EDUCATIONAL SERVICES	3
Major Electives, choose from the following:		27
EDLE 66492	INTERNSHIP IN EDUCATIONAL ADMINISTRATION	
EDLE 66515	FACILITIES PLANNING AND ADMINISTRATION	
EDLE 66517	ADMINISTRATION AND SUPERVISION OF SPECIAL EDUCATION	
EDLE 66518	SCHOOL AND SPECIAL EDUCATION LAW	
EDLE 66520	SCHOOL LAW FOR TEACHERS AND PRINCIPALS	
EDLE 66522	PUBLIC SCHOOL FINANCE AND ECONOMICS	
EDLE 66525	THE EDUCATIONAL PRINCIPALSHIP	
EDLE 66526	FUNDAMENTALS OF EDUCATIONAL ADMINISTRATION	
EDLE 66527	SCHOOL FINANCE FOR BUILDING ADMINISTRATORS	
EDLE 66529	LEADING FOR SOCIAL JUSTICE	
EDLE 66531	INSTRUCTIONAL LEADERSHIP	
EDLE 66533	CENTRAL OFFICE ADMINISTRATION: CURRICULUM AND PUPIL SERVICES	
EDLE 66534	THE SUPERINTENDENCY	
EDLE 66536	THE ADMINISTRATOR'S ROLE IN CURRICULUM DEVELOPMENT	
EDLE 66538	ADMINISTRATION OF SCHOOL CULTURE, POLITICS AND REFORMS	
EDLE 66540	WOMEN IN LEADERSHIP	
EDLE 66542	PRINCIPLES AND TECHNIQUES OF SUPERVISION AND SPECIAL EDUCATION	
EDLE 66543	SCHOOL ADMINISTRATION IN URBAN SETTINGS	
EDLE 66544	COMMUNITY RELATIONS AND COMMUNICATION SKILLS	
EDLE 66595	SPECIAL TOPICS IN EDUCATIONAL ADMINISTRATION	
EDLE 66598	RESEARCH IN EDUCATIONAL ADMINISTRATION	
EDLE 66602	TECHNOLOGY LEADERSHIP IN EDUCATION	
EDLE 66747	PERSONNEL	

Minimum Total Credit Hours: 30

## Educational Leadership K-12 - M.Ed.

### College of Education Health and Human Services

School of Foundations, Leadership and Administration  
300 White Hall  
Kent Campus  
330-672-2012

reflective practice, transparency and ethical behavior as related to their roles within the school.

5. Safeguard the values of democracy, equity and diversity within the school.
6. Evaluate the potential moral and legal consequences of decision-making in the school.
7. Promote social justice within the school to ensure that individual student needs inform all aspects of schooling.

## Program Requirements

### Major Requirements

Code	Title	Credit Hours
<b>Major Requirements</b>		
EDLE 66518	SCHOOL AND SPECIAL EDUCATION LAW	3
EDLE 66525	THE EDUCATIONAL PRINCIPALSHIP	3
EDLE 66526	FUNDAMENTALS OF EDUCATIONAL ADMINISTRATION	3
EDLE 66527	SCHOOL FINANCE FOR BUILDING ADMINISTRATORS	3
EDLE 66529	LEADING FOR SOCIAL JUSTICE	3
EDLE 66531	INSTRUCTIONAL LEADERSHIP	3
EDLE 66536	THE ADMINISTRATOR'S ROLE IN CURRICULUM DEVELOPMENT	3
EDLE 66542	PRINCIPLES AND TECHNIQUES OF SUPERVISION AND SPECIAL EDUCATION	3
EDLE 66544	COMMUNITY RELATIONS AND COMMUNICATION SKILLS	3
EVAL 65511	RESEARCH IN EDUCATIONAL SERVICES	3
Minimum Total Credit Hours:		30

## Educational Leadership K-12 - Ph.D.

### College of Education Health and Human Services

School of Foundations, Leadership and Administration  
300 White Hall  
Kent Campus  
330-672-2012  
www.kent.edu/ehhs/fla

### Description

**Admission to the Doctor of Philosophy (Ph.D.) degree in Educational Leadership K-12 has been temporarily suspended as of fall 2020.**

The Ph.D. degree in Educational Leadership—K-12 prepares scholarly practitioners and practicing scholars to lead complex educational settings. Graduates are employed in public and private institutions at the pre-kindergarten to grade 12 and higher educational levels, as well as in non-school settings, both public and private.

### Fully Offered At:

- Kent Campus

### Admission Requirements

- Master's degree from an accredited college or university for unconditional admission

- Minimum 3.500 GPA on a 4.000 point scale for unconditional admission
- Official transcript(s) from each college or university in which 8 semester or 12 quarter credit hours were earned
- Detailed résumé or curriculum vitae
- Goal statement
- Two letters of recommendation (minimum one academic reference is preferred)
- Interview
- English language proficiency - all international students must provide proof of English language proficiency (unless they meet specific exceptions) by earning one of the following:
  - Minimum 550 TOEFL PBT score (paper-based version)
  - Minimum 79 TOEFL IBT score (Internet-based version)
  - Minimum 77 MELAB score
  - Minimum 6.5 IELTS score
  - Minimum 58 PTE score
  - Minimum 110 Duolingo English Test score

Program faculty attempt a holistic evaluation of applicants for the Ph.D. degree.

In addition to the criteria above, admission is based on work experience, prior leadership, professionalism and ethics, interpersonal skills and performance during the interview. Students may submit materials they feel will more accurately reflect their potential to succeed within the program (e.g., master's thesis, publications).

For more information about graduate admissions, please visit the Graduate Studies admission website. For more information on international admission, visit the Office of Global Education's admission website.

### Program Learning Outcomes

Graduates of the program will be able to:

1. Facilitate collaboratively the development, articulation, implementation and stewardship of a shared school vision of learning through the collection and use of data to identify school goals.
2. Sustain a school culture and instructional program conducive to student learning through collaboration, trust and a personalized learning environment with high expectations for students.
3. Create and evaluate a comprehensive, rigorous and coherent curricular and instructional school program.
4. Act in an ethical manner with integrity and fairness to ensure a school system of accountability for every student's academic and social success by modeling school principles of self-awareness, reflective practice, transparency and ethical behavior as related to their roles within the school.
5. Safeguard the values of democracy, equity and diversity within the school.
6. Evaluate the potential moral and legal consequences of decision-making in the school.
7. Promote social justice within the school to ensure that individual student needs inform all aspects of schooling.

## Program Requirements

### Major Requirements

Code	Title	Credit Hours
<b>Major Requirements</b>		
EDLE 80199	DISSERTATION I <sup>1</sup>	30
Educational Leadership K-12 Electives (EDLE 70000 or 80000 level)		39
Evaluation and Measurement Electives, choose from the following:		15
EVAL 75510	STATISTICS I FOR EDUCATIONAL SERVICES	
EVAL 78711	MODERN TEST THEORY: ITEM RESPONSE THEORY	
EVAL 78713	MULTIVARIATE ANALYSIS IN EDUCATIONAL RESEARCH	
EVAL 78713	MULTIVARIATE ANALYSIS IN EDUCATIONAL RESEARCH	
EVAL 78714	FACTOR ANALYSIS IN EDUCATIONAL RESEARCH	
EVAL 78716	STATISTICS II: ANOVA AND NONPARAMETRIC TESTS	
EVAL 78728	MULTIPLE REGRESSION	
EVAL 78898	COMPARATIVE RESEARCH DESIGN	
EVAL 85515	QUANTITATIVE RESEARCH DESIGN AND ANALYSIS	
EVAL 85516	QUALITATIVE RESEARCH DESIGN	
EVAL 85517	ADVANCED QUANTITATIVE RESEARCH IN EDUCATIONAL SERVICES	
EVAL 85518	ADVANCED QUALITATIVE RESEARCH IN EDUCATIONAL SERVICES	
Minimum Total Credit Hours:		84

<sup>1</sup> Upon admission to candidacy, each doctoral candidate must register for EDLE 80199. It is expected that a doctoral candidate will continuously register for Dissertation I for a total of 30 credit hours, and thereafter EDLE 80299, each semester until all requirements for the degree have been met.

## Educational Studies - B.S.

### College of Education Health and Human Services

School of Foundations, Leadership and Administration  
300 White Hall  
Kent Campus  
330-672-2012  
[www.kent.edu/ehhs/fla](http://www.kent.edu/ehhs/fla)

## Description

The Bachelor of Science degree in Educational Studies is a complete program designed for those who wish to work in education, health and human services settings. The program reflects a consideration for the nature of the setting in which individuals will work (e.g., youth center, social agency, museum, park, business), the particular skills and competencies required in such career (e.g., program planning, technology utilization, interpersonal and multicultural facilitation) and the nature of the particular function which characterizes the option (e.g., program design, instruction, service delivery).

### Fully Offered At:

- Kent Campus

## Admission Requirements

Admission to this major is selective. The Educational Studies program requires a 2.500 overall GPA to be accepted into the major. Students who do not meet the GPA requirement at the time of admission for this major will be admitted to the EHHS General non-degree program until which time they have established a Kent State GPA of 2.500. They may then submit a change of program to declare this major.

**Current Kent State and Transfer Students:** Active Kent State students who wish to change their major must have attempted a minimum 12 credit hours at Kent State and meet all admission criteria listed above to be admitted. Students who have not attempted 12 credit hours at Kent State will be evaluated for admission based on their high school GPA for new students or transfer GPA for transfer students. Transfer students who have not attempted 12 credit hours of college-level coursework at Kent State and/or other institutions will be evaluated based on both their high school GPA and college GPA.

**English Language Proficiency Requirements for International Students:** All international students must provide proof of English language proficiency (unless they meet specific exceptions) by earning a minimum 525 TOEFL score (71 on the Internet-based version), minimum 75 MELAB score, minimum 6.0 IELTS score or minimum 48 PTE Academic score, or by completing the ELS level 112 Intensive Program. For more information on international admission, visit the Office of Global Education's admission website.

## Program Learning Outcomes

Graduates of this program will be able to:

1. Demonstrate a basic knowledge of education that meets the requirements of the College of Education, Health, and Human Services.
2. Apply skills and competencies required in desired career paths.

## University Requirements

All students in a bachelor's degree program at Kent State University must complete the following university requirements for graduation.

**NOTE:** University requirements may be fulfilled in this program by specific course requirements. Please see Program Requirements for details.

Destination Kent State: First Year Experience	1
Course is not required for students with 25 transfer credits, excluding College Credit Plus, or age 21+ at time of admission.	
Diversity Domestic/Global (DIVD/DIVG)	2 courses
Students must successfully complete one domestic and one global course, of which one must be from the Kent Core.	
Experiential Learning Requirement (ELR)	varies
Students must successfully complete one course or approved experience.	
Kent Core (see table below)	36-37
Writing-Intensive Course (WIC)	1 course
Students must earn a minimum C grade in the course.	

Upper-Division Requirement	39 (or 42)
Students must successfully complete 39 upper-division (numbered 30000 to 49999) credit hours to graduate. Students in a B.A. and/or B.S. degree in the College of Arts and Sciences must complete 42 upper-division credit hours.	
Total Credit Hour Requirement	120
Some bachelor's degrees require students to complete more than 120 credit hours.	

## Kent Core Requirements

Kent Core Composition (KCMP)	6
Kent Core Mathematics and Critical Reasoning (KMCR)	3
Kent Core Humanities and Fine Arts (KHUM/KFA) (min one course each)	9
Kent Core Social Sciences (KSS) (must be from two disciplines)	6
Kent Core Basic Sciences (KBS/KLAB) (must include one laboratory)	6-7
Kent Core Additional (KADL)	6
<b>Total Credit Hours:</b>	<b>36-37</b>

## Program Requirements

### Major Requirements

Code	Title	Credit Hours
<b>Major Requirements (courses count in major GPA)</b>		
EDST 44004	RESEARCH AND WRITINGS IN EDUCATIONAL STUDIES (WIC) (min C grade) <sup>1</sup>	3
EDST 44092	PRACTICUM IN EDUCATIONAL STUDIES (ELR) <sup>2</sup>	1-12
<b>Additional Requirements (courses do not count in major GPA)</b>		
UC 10097	DESTINATION KENT STATE: FIRST YEAR EXPERIENCE	1
Kent Core Composition		6
Kent Core Mathematics and Critical Reasoning		3
Kent Core Humanities and Fine Arts (minimum one course from each)		9
Kent Core Social Sciences (courses from two curricular areas)		6
Kent Core Basic Sciences (must include one laboratory)		6-7
Kent Core Additional		6
General Electives (total credit hours depends on earning 120 credit hours, including 39 upper-division credit hours)		79
Minimum Total Credit Hours:		120

<sup>1</sup> Students who have successfully completed a designated writing-intensive course may be waived from EDST 44004 with approval by the Educational Studies program coordinator. A minimum C grade must be earned to fulfill the writing-intensive requirement.

<sup>2</sup> State/Federal background checks may be required for practicum experiences. Students with prior work, internship, practicum, student teaching and/or field experience may be waived from EDST 44092 with approval by the Educational Studies program coordinator. However, the experiential learning requirement will still need to be met by a course or non-course activity.

### Graduation Requirements

<b>Minimum Major GPA</b>	<b>Minimum Overall GPA</b>
2.000	2.500

- No dual degree/major may be earned with a Bachelor of Science in Educational Studies.

## Evaluation and Measurement - M.Ed.

**College of Education Health and Human Services**  
 School of Foundations, Leadership and Administration  
 300 White Hall  
 Kent Campus  
 330-672-2012  
[www.kent.edu/ehhs/fla](http://www.kent.edu/ehhs/fla)

### Description

The Master of Education degree in Evaluation and Measurement develops educators and specialists in the areas of assessment, measurement, research design and program evaluation. The program serves teachers and administrators seeking applied measurement, research and evaluation skills for use in schools (pre-kindergarten to grade 12) and in higher education. The program also serves professionals seeking careers in the areas of evaluation, research and psychometrics.

### Fully Offered At:

- Online
- Kent Campus

### Admission Requirements

- Bachelor's degree from an accredited college or university for unconditional admission
- Minimum 3.000 undergraduate GPA on a 4.000 point scale for unconditional admission
- Official transcript(s)
- Goal statement
- Two letters of recommendation
- English language proficiency - all international students must provide proof of English language proficiency (unless they meet specific exceptions) by earning one of the following:
  - Minimum 550 TOEFL PBT score (paper-based version)
  - Minimum 79 TOEFL IBT score (Internet-based version)
  - Minimum 77 MELAB score
  - Minimum 6.5 IELTS score
  - Minimum 58 PTE score
  - Minimum 110 Duolingo English Test score

For more information about graduate admissions, please visit the Graduate Studies admission website. For more information on international admission, visit the Office of Global Education's admission website.

### Program Learning Outcomes

Graduates of this program will be able to:

1. Demonstrate knowledge of descriptive and inferential statistics at a conceptual and application level.
2. Demonstrate knowledge of research design and methods by selecting and executing the appropriate research design and methods for a variety of applications.

3. Demonstrate knowledge of measurement, including the methods to develop valid and reliable measures of constructs.
4. Demonstrate knowledge of contemporary and classic theories in program evaluation, the purposes and logic of program evaluation and the processes of different types of program evaluation.

## Program Requirements

### Major Requirements

Code	Title	Credit Hours
<b>Major Requirements</b>		
EVAL 55610	CLASSROOM ASSESSMENT	3
or EVAL 68710	INTRODUCTION TO MEASUREMENT	
EVAL 65510	STATISTICS I FOR EDUCATIONAL SERVICES	3
EVAL 65511	RESEARCH IN EDUCATIONAL SERVICES	3
EVAL 65515	QUANTITATIVE RESEARCH DESIGN AND ANALYSIS	3
EVAL 65516	QUALITATIVE RESEARCH DESIGN	3
EVAL 68715	SURVEY DESIGN AND APPLIED RESEARCH IN EDUCATION	3
EVAL 68716	STATISTICS II: ANOVA AND NONPARAMETRIC TESTS	3
or EVAL 68728	MULTIPLE REGRESSION	
EVAL 68798	RESEARCH IN EVALUATION AND MEASUREMENT	3
EVAL 68807	PROGRAM EVALUATION	3
Electives		3
Minimum Total Credit Hours:		30

### Graduation Requirements

Students have six years from the term of first enrollment to complete their M.Ed. degree.

## Evaluation and Measurement - Ph.D.

### College of Education Health and Human Services

School of Foundations, Leadership and Administration

300 White Hall

Kent Campus

330-672-2012

[www.kent.edu/ehhs/fla](http://www.kent.edu/ehhs/fla)

### Description

The Ph.D. degree in Evaluation and Measurement develops professionals who have the theoretical knowledge base and application skills to teach courses at the college level in research design, statistics, measurement and evaluation; conceptualize, design and evaluate a wide variety of research methodologies; choose appropriate analyses for questions and designs that have been proposed; communicate effectively with educators and other professionals in the development and application of research and psychometric materials; and evaluate programs culminating in written reports.

Course offerings encompass the broad range of expertise required of those who will assume leadership roles in the conduct and teaching of research, measurement, statistics and evaluation.

### Fully Offered At:

- Kent Campus

## Admission Requirements

- Master's degree from an accredited college or university for unconditional admission
- Minimum 3.500 GPA is recommended for unconditional admission
- Official transcript(s)
- GRE scores (minimum score 50th percentile is recommended)
- Résumé or curriculum vita
- Goal statement
- Two letters of recommendation
- English language proficiency - all international students must provide proof of English language proficiency (unless they meet specific exceptions) by earning one of the following:
  - Minimum 550 TOEFL PBT score (paper-based version)
  - Minimum 79 TOEFL IBT score (Internet-based version)
  - Minimum 77 MELAB score
  - Minimum 6.5 IELTS score
  - Minimum 58 PTE score
  - Minimum 110 Duolingo English Test score

For more information about graduate admissions, please visit the Graduate Studies admission website. For more information on international admission, visit the Office of Global Education's admission website.

## Program Learning Outcomes

Graduates of this program will be able to:

1. Demonstrate knowledge of descriptive and inferential statistics at a conceptual and application level.
2. Demonstrate knowledge of research design and methods by selecting and executing the appropriate research design and methods for a variety of applications.
3. Demonstrate knowledge of measurement, including the methods to develop valid and reliable measures of constructs.
4. Demonstrate knowledge of contemporary and classic theories in program evaluation, the purposes and logic of program evaluation and the processes of different types of program evaluation.

## Program Requirements

### Major Requirements

[PHD-EVAL]

Code	Title	Credit Hours
<b>Major Requirements</b>		
EVAL 75510	STATISTICS I FOR EDUCATIONAL SERVICES	3
EVAL 78710	INTRODUCTION TO MEASUREMENT	3
or EVAL 78715	SURVEY DESIGN AND APPLIED RESEARCH IN EDUCATION	
EVAL 78711	MODERN TEST THEORY: ITEM RESPONSE THEORY	3
EVAL 78713	MULTIVARIATE ANALYSIS IN EDUCATIONAL RESEARCH	3



EVAL 78714	FACTOR ANALYSIS IN EDUCATIONAL RESEARCH	3
EVAL 78716	STATISTICS II: ANOVA AND NONPARAMETRIC TESTS	3
EVAL 78728	MULTIPLE REGRESSION	3
EVAL 78735	STRUCTURAL EQUATION MODELING	3
EVAL 78745	HIERARCHICAL LINEAR MODELING	3
EVAL 78807	PROGRAM EVALUATION	3
EVAL 80199	DISSERTATION I <sup>1</sup>	30
EVAL 85515	QUANTITATIVE RESEARCH DESIGN AND ANALYSIS	3
EVAL 85516	QUALITATIVE RESEARCH DESIGN	3
EVAL 85518	ADVANCED QUALITATIVE RESEARCH IN EDUCATIONAL SERVICES	3
or EVAL 85520	MIXED METHODS RESEARCH	
EVAL 88791	SEMINAR: EVALUATION AND MEASUREMENT	3
Electives, as approved by program advisor		9
Minimum Total Credit Hours:		81

<sup>1</sup> Upon admission to candidacy, each doctoral candidate must register for EVAL 80199. It is expected that a doctoral candidate will continuously register for Dissertation I for a total of 30 credit hours, and thereafter EVAL 80299, each semester (including summer) until all requirements for the degree have been met.

## Graduation Requirements

After admission to the Ph.D. degree program, students plan a program of study with their respective faculty advisory committee headed by their advisor.

## Event Planning - Minor

### College of Education Health and Human Services

School of Foundations, Leadership and Administration  
300 White Hall  
Kent Campus  
330-672-2012  
www.kent.edu/ehhs/fla

## Description

The Event Planning minor prepares students to assume leadership roles within the industry. Through innovation, research, knowledge dissemination and the enhancement of educational and practical opportunities, this minor affords students the opportunity to enroll in a variety of courses across disciplines to procure knowledge and practical skills pertaining to the process of event planning.

### Fully Offered At:

- Kent Campus

## Admission Requirements

Admission to a minor is open to students declared in a bachelor's degree, the A.A.B. or A.A.S. degree or the A.T.S. degree (not Individualized Program major). Students declared only in the A.A. or A.S. degree or the A.T.S. degree in Individualized Program may not declare a minor. Students may not pursue a minor and a major in the same discipline.

To declare this minor, students must have attempted a minimum 12 credit hours at Kent State and earned a minimum 2.000 overall Kent State GPA. Students who have not attempted 12 credit hours at Kent State will be evaluated for admission based on their high school GPA for new students or transfer GPA for transfer students. Transfer students who have not attempted 12 credit hours of college-level coursework at Kent State and/or other institutions will be evaluated based on both their high school GPA and college GPA.

## Program Learning Outcomes

Graduates of this program will be able to:

- apply the event planning process in the design, implementation, and evaluation of special events
- integrate event planning principles in a variety of settings including hospitality, sport, recreation, and tourism
- gain practical experience in event planning

## Minor Requirements

Code	Title	Credit Hours
<b>Minor Requirements</b>		
HM 23030	HOTEL OPERATIONS	3
HM 33070	INTERNATIONAL CUISINE	4
RPTM 36075	PROGRAM DESIGN AND EVALUATION	3
SPAD 45022	EVENT PLANNING AND PRODUCTION	3
Practicum Electives, choose from the following: <sup>1</sup>		1-3
HM 43092	PRACTICUM IN HOSPITALITY MANAGEMENT (ELR)	
SPAD 25092	PRACTICUM I IN SPORT ADMINISTRATION (ELR)	
SPAD 35092	PRACTICUM II IN SPORT ADMINISTRATION (ELR)	
Discipline Electives, choose from the following: <sup>2</sup>		9
<i>Hospitality Management</i>		
HM 33040	CONVENTION SALES AND MANAGEMENT	
HM 43043	HOSPITALITY MEETINGS MANAGEMENT	
HM 41095	SPECIAL TOPICS IN HOSPITALITY MANAGEMENT <sup>3</sup>	
<i>Recreation, Park and Tourism Management</i>		
RPTM 26030	LEADERSHIP IN RECREATION, PARKS AND TOURISM	
RPTM 26060	INTRODUCTION TO GLOBAL TOURISM (DIVG)	
RPTM 36040	INCLUSION OF PEOPLE WITH DISABILITIES IN LEISURE SERVICES (DIVD)	
RPTM 36060	ENTREPRENEURIAL APPROACHES TO LEISURE AND HOSPITALITY SERVICES	
RPTM 46000	TOURISM DEVELOPMENT AND RECREATIONAL TRAVEL	
RPTM 46095	SELECTED TOPICS IN RECREATION <sup>3</sup>	
<i>Sport Administration</i>		
SPAD 35025	FACILITY MANAGEMENT	
SPAD 45023	SPORT MARKETING	
SPAD 45024	SPORT IN GLOBAL PERSPECTIVE	
SPAD 45026	SPORT AND THE MEDIA	
SPAD 45027	PUBLIC RELATIONS AND PROMOTION IN SPORT	
SPAD 45030	SPORT ENTERPRISE (WIC)	

SPAD 46080	LEGAL ISSUES IN SPORT AND RECREATION
SPAD 46095	SPECIAL TOPICS IN SPORT ADMINISTRATION <sup>3</sup>

Minimum Total Credit Hours: 23

- <sup>1</sup> Students may repeat the practicum for maximum 3 credit hours with advisor approval.
- <sup>2</sup> Students **not** enrolled in the Hospitality Management, Sport Administration or Recreation, Park and Tourism major (or one of their related minors) must select at least one course from each of the three categories. Students enrolled in one of those three majors or a related minor must select one course from each of the two categories that are not their major or minor; remaining coursework may be selected from any of the three categories or consist of an approved elective.
- <sup>3</sup> Students should select a special topics with advisor approval.

## Graduation Requirements

Minimum Minor GPA	Minimum Overall GPA
2.500	2.000

- Minimum 6 credit hours in the minor must be upper-division coursework (30000 and 40000 level).
- Minimum 6 credit hours in the minor must be outside of the course requirements for any major or other minor the student is pursuing.
- Minimum 50 percent of the total credit hours for the minor must be taken at Kent State (in residence).

## Higher Education Administration - Ph.D.

### College of Education Health and Human Services

School of Foundations, Leadership and Administration  
300 White Hall  
Kent Campus  
330-672-2012  
[www.kent.edu/ehhs/fla](http://www.kent.edu/ehhs/fla)

## Description

The Ph.D. degree in Higher Education Administration prepares students for careers as highly effective higher education administrators and staff professionals. The coursework prepares students for the varied challenges facing two-year, four-year and graduate institutions and communities today, and helps shape educational institutions in the future.

### Fully Offered At:

- Kent Campus

## Admission Requirements

- Master's degree from an accredited college or university for unconditional admission
- Minimum 3.000 graduate GPA on a 4.000 point scale (minimum 3.500 graduate GPA is recommended) for unconditional admission
- Official transcript(s)
- GRE scores with recommended scores at 50th percentile or higher

- Résumé or vita
- Goal statement
- Two letters of recommendation
- Interview
- English language proficiency - all international students must provide proof of English language proficiency (unless they meet specific exceptions) by earning one of the following:
  - Minimum 550 TOEFL PBT score (paper-based version)
  - Minimum 79 TOEFL IBT score (Internet-based version)
  - Minimum 77 MELAB score
  - Minimum 6.5 IELTS score
  - Minimum 58 PTE score
  - Minimum 110 Duolingo English Test score

Program faculty will assess applicants holistically, considering academic credentials, related professional experience, academic or professional references and scholarly and professional activities, among others. For more information about graduate admissions, please visit the Graduate Studies admission website. For more information on international admission, visit the Office of Global Education's admission website.

## Program Learning Outcomes

Graduates of the program will be able to:

1. Understand the administrative and financial functions performed on a college or university campus.
2. Understand the complexities of college/university budgeting process and construct a divisional or departmental budget.
3. Understand and commit to the diverse nature of higher education in the United States.
4. Articulate the challenges and opportunities associated with the provision of a diverse, multicultural educational setting, including the impact of demographic changes on higher education and familiarity with strategies to diversify higher education.
5. Understand the role of a faculty member and the curriculum development process in an institution of higher education.
6. Understand and have conversant knowledge of the legal issues facing higher education today, including being familiar with legislation that impacts decision making within higher education.
7. Understand the rights and responsibilities of employees and students within institutions of higher education, as well as the responsibilities of the institutions.
8. Understand research methodology to conduct individual research.
9. Understand the internationalization of higher education institutions, including explaining the different rationales for internationalization that may motivate different stakeholders in higher education and analyzing an institution's internationalization goals and activities in terms of both an institutional strategy and in terms of student learning outcomes.

## Program Requirements

### Major Requirements

Code	Title	Credit Hours
<b>Prerequisite Requirements</b>		
HIED 76652	LAW AND HIGHER EDUCATION	

HIED 76653	COLLEGE STUDENT DEVELOPMENT: THEORY AND PRACTICE	
HIED 76671	THE ADMINISTRATION OF MULTICULTURALISM AND DIVERSITY IN HIGHER EDUCATION	
<b>Major Requirements</b>		
EVAL 75510	STATISTICS I FOR EDUCATIONAL SERVICES	3
EVAL 85515	QUANTITATIVE RESEARCH DESIGN AND ANALYSIS	3
EVAL 85516	QUALITATIVE RESEARCH DESIGN	3
HIED 76521	EMPLOYMENT LAW	3
HIED 76598	RESEARCH IN HIGHER EDUCATION ADMINISTRATION	3
HIED 76656	HIGHER EDUCATION CURRICULUM	3
HIED 76662	POLITICS AND POWER IN ORGANIZATIONS	3
HIED 76667	BUSINESS ADMINISTRATION IN HIGHER EDUCATION	3
HIED 76670	INTERNATIONALIZATION OF HIGHER EDUCATION INSTITUTIONS	3
HIED 80080	DISSERTATION PREPARATION SEMINAR	3
HIED 80199	DISSERTATION I <sup>1</sup>	30
HIED 86558	ADVANCED EDUCATIONAL LEADERSHIP	3
Major Electives, choose from the following: <sup>2</sup>		15
CES 78182	CAREER COUNSELING	
EVAL 78806	HIGHER EDUCATION DATA AND INSTITUTIONAL RESEARCH	
HIED 76492	INTERNSHIP IN HIGHER EDUCATION ADMINISTRATION	
HIED 76594	INTERNSHIP IN COLLEGE TEACHING	
HIED 76595	SPECIAL TOPICS IN HIGHER EDUCATION ADMINISTRATION	
HIED 76596	INDIVIDUAL INVESTIGATION IN HIGHER EDUCATION ADMINISTRATION	
HIED 76600	HISTORY OF HIGHER EDUCATION	
HIED 76601	THE PRIVATE LIBERAL ARTS COLLEGE	
HIED 76651	STUDENT AFFAIRS FUNCTIONS IN HIGHER EDUCATION	
HIED 76654	STUDENTS AND THE COLLEGE ENVIRONMENT	
HIED 76658	THE COMMUNITY COLLEGE	
HIED 76660	FACULTY ROLES AND RESPONSIBILITIES	
HIED 76663	STATUS OF WOMEN IN HIGHER EDUCATION	
HIED 76664	SERVICE LEARNING IN HIGHER EDUCATION	
HIED 76665	TECHNOLOGY, SYSTEMS AND DATA IN HIGHER EDUCATION ADMINISTRATION	
HIED 76666	FINANCIAL MANAGEMENT IN HIGHER EDUCATION	
HIED 76669	ADMINISTRATION OF STUDENT DISABILITY SERVICES IN HIGHER EDUCATION	
HIED 76672	INTERNATIONAL STUDENTS AND AMERICAN COLLEGES	
HIED 76673	RESEARCH IN ADMINISTRATION OF INTERNATIONAL HIGHER EDUCATION	
HIED 76674	COMPARATIVE HIGHER EDUCATION	
HIED 76675	DESIGN AND DELIVERY OF EDUCATION ABROAD PROGRAMS	
HIED 76676	INTERCULTURAL COMMUNICATION FOR INTERNATIONAL EDUCATORS	
HIED 76677	WORKFORCE, ECONOMIC AND COMMUNITY DEVELOPMENT IN COMMUNITY COLLEGES	
HIED 76678	ISSUES AND TRENDS IN COMMUNITY COLLEGE ADMINISTRATION	

HIED 76679	CAREER ADVISING: THEORY AND PRACTICE	
HIED 76680	ADMINISTRATION OF CAREER AND ADVISING SERVICES	
HIED 76733	INTERPERSONAL AND GROUP DYNAMICS IN EDUCATIONAL ORGANIZATIONS	
HIED 76749	ASSESSMENT AND EVALUATION IN HIGHER EDUCATION	
HIED 86559	ADVANCED STUDENT AND ADULT DEVELOPMENT	
Additional electives as approved		
Research Electives, choose from the following:		6
EVAL 78710	INTRODUCTION TO MEASUREMENT	
EVAL 78711	MODERN TEST THEORY: ITEM RESPONSE THEORY	
EVAL 78713	MULTIVARIATE ANALYSIS IN EDUCATIONAL RESEARCH	
EVAL 78714	FACTOR ANALYSIS IN EDUCATIONAL RESEARCH	
EVAL 78716	STATISTICS II: ANOVA AND NONPARAMETRIC TESTS	
EVAL 78728	MULTIPLE REGRESSION	
EVAL 78898	COMPARATIVE RESEARCH DESIGN	
EVAL 85517	ADVANCED QUANTITATIVE RESEARCH IN EDUCATIONAL SERVICES	
EVAL 85518	ADVANCED QUALITATIVE RESEARCH IN EDUCATIONAL SERVICES	
EVAL 85520	MIXED METHODS RESEARCH	
EVAL 85540	GROUNDING THEORY AND PHENOMENOLOGICAL RESEARCH	
EVAL 85560	CRITICAL SOCIAL RESEARCH	
EVAL 88795	SPECIAL TOPICS: EVALUATION AND MEASUREMENT	
Additional electives as approved		
Minimum Total Credit Hours:		84

- <sup>1</sup> Upon admission to candidacy, each doctoral candidate must register for HIED 80199. It is expected that a doctoral candidate will continuously register for Dissertation I for a total of 30 credit hours, and thereafter HIED 80299, each semester until all requirements for the degree have been met.
- <sup>2</sup> Major elective courses are to be determined by the students and their advisor(s).

## Higher Education Administration and Student Affairs - Ed.S.

**College of Education Health and Human Services**  
 School of Foundations, Leadership and Administration  
 300 White Hall  
 Kent Campus  
 330-672-2012  
[www.kent.edu/ehhs/fla](http://www.kent.edu/ehhs/fla)

### Description

The Educational Specialist degree in Higher Education Administration and Student Affairs provides continuing educational opportunities for practitioners who wish to hold careers as higher education administrators and staff professionals. The coursework prepares

students for the varied challenges facing two-year, four-year and graduate institutions today and in the future.

### Fully Offered At:

- Kent Campus

## Admission Requirements

- Master's degree from an accredited college or university for unconditional admission
- Minimum 3.000 graduate GPA on a 4.000 point scale (minimum 3.250 graduate GPA is recommended) for unconditional admission
- Official transcript(s)
- GRE scores with recommended scores at 50th percentile or higher (waived if master's degree GPA is 3.25 or higher)
- Résumé or vita
- Goal statement
- Two letters of recommendation
- Interview
- English language proficiency - all international students must provide proof of English language proficiency (unless they meet specific exceptions) by earning one of the following:
  - Minimum 550 TOEFL PBT score (paper-based version)
  - Minimum 79 TOEFL IBT score (Internet-based version)
  - Minimum 77 MELAB score
  - Minimum 6.5 IELTS score
  - Minimum 58 PTE score
  - Minimum 110 Duolingo English Test score

Applications will be assessed holistically, considering applicants' academic credentials, related professional experience, academic or professional references, scholarly and professional activities, among others. For more information about graduate admissions, please visit the Graduate Studies admission website. For more information on international admission, visit the Office of Global Education's admission website.

## Program Learning Outcomes

Graduates of the program will be able to:

1. Demonstrate a broad understanding of theories of student and adult development that guide the profession and influence student learning and development within their collegiate environment.
2. Demonstrate a basic understanding and conversant knowledge of the legal issues facing higher education today, including being familiar with legislation that impacts decision making within higher education and understanding the rights and responsibilities of students, staff, faculty and institutions.
3. Demonstrate, through practical experience in two or more functional areas within higher education, the potential to succeed in professional leadership positions.
4. Demonstrate an understanding of the administrative and financial functions performed on a college or university campus.
5. Demonstrate an understanding of and commitment to the diverse nature of higher education in the United States, and articulate the challenges and opportunities associated with the provision of a diverse, multicultural educational setting.

## Program Requirements

### Major Requirements

Code	Title	Credit Hours
<b>Major Requirements</b>		
HIED 76652	LAW AND HIGHER EDUCATION	3
HIED 76653	COLLEGE STUDENT DEVELOPMENT: THEORY AND PRACTICE	3
HIED 76657	LEADERSHIP IN EDUCATION ORGANIZATIONS	3
HIED 76671	THE ADMINISTRATION OF MULTICULTURALISM AND DIVERSITY IN HIGHER EDUCATION	3
HIED 76749	ASSESSMENT AND EVALUATION IN HIGHER EDUCATION	3
Major Electives, choose from the following:		15
HIED 76492	INTERNSHIP IN HIGHER EDUCATION ADMINISTRATION	
HIED 76521	EMPLOYMENT LAW	
HIED 76595	SPECIAL TOPICS IN HIGHER EDUCATION ADMINISTRATION	
HIED 76596	INDIVIDUAL INVESTIGATION IN HIGHER EDUCATION ADMINISTRATION	
HIED 76600	HISTORY OF HIGHER EDUCATION	
HIED 76601	THE PRIVATE LIBERAL ARTS COLLEGE	
HIED 76651	STUDENT AFFAIRS FUNCTIONS IN HIGHER EDUCATION	
HIED 76654	STUDENTS AND THE COLLEGE ENVIRONMENT	
HIED 76656	HIGHER EDUCATION CURRICULUM	
HIED 76658	THE COMMUNITY COLLEGE	
HIED 76660	FACULTY ROLES AND RESPONSIBILITIES	
HIED 76662	POLITICS AND POWER IN ORGANIZATIONS	
HIED 76663	STATUS OF WOMEN IN HIGHER EDUCATION	
HIED 76664	SERVICE LEARNING IN HIGHER EDUCATION	
HIED 76666	FINANCIAL MANAGEMENT IN HIGHER EDUCATION	
HIED 76667	BUSINESS ADMINISTRATION IN HIGHER EDUCATION	
HIED 76669	ADMINISTRATION OF STUDENT DISABILITY SERVICES IN HIGHER EDUCATION	
HIED 76670	INTERNATIONALIZATION OF HIGHER EDUCATION INSTITUTIONS	
HIED 76672	INTERNATIONAL STUDENTS AND AMERICAN COLLEGES	
HIED 76673	RESEARCH IN ADMINISTRATION OF INTERNATIONAL HIGHER EDUCATION	
HIED 76674	COMPARATIVE HIGHER EDUCATION	
HIED 76676	INTERCULTURAL COMMUNICATION FOR INTERNATIONAL EDUCATORS	
HIED 76677	WORKFORCE, ECONOMIC AND COMMUNITY DEVELOPMENT IN COMMUNITY COLLEGES	
HIED 76678	ISSUES AND TRENDS IN COMMUNITY COLLEGE ADMINISTRATION	
HIED 76733	INTERPERSONAL AND GROUP DYNAMICS IN EDUCATIONAL ORGANIZATIONS	
HIED 76745	EQUITY, JUSTICE AND U.S. HIGHER EDUCATION	
Additional electives as approved		
Minimum Total Credit Hours:		30

# Higher Education Administration and Student Affairs - M.Ed.

## College of Education Health and Human Services

School of Foundations, Leadership and Administration

300 White Hall

Kent Campus

330-672-2012

[www.kent.edu/ehhs/fla](http://www.kent.edu/ehhs/fla)

## Description

The Master of Education degree in Higher Education Administration and Student Affairs prepares graduates to assume a wide variety of administrative positions within colleges and universities throughout the world, ranging from entry level to director level. The curriculum, grounded in theory and focused on practice, is designed to reinforce entry-level skills, to support diverse student populations in their development, and to cultivate the skills and competencies necessary to lead and administer programs. Focusing on the “big picture,” students gain an understanding of the complex environment in which they will be working.

Graduates are prepared to work as staff and administrators in campus life, career services, judicial affairs, resident services, alumni, admissions, academic success, academic advising, international student services, institutional advancement, upward bound, student disability services, student multicultural center and undergraduate and graduate studies.

## Fully Offered At:

- Kent Campus

## Admission Requirements

- Bachelor's degree from an accredited college or university for unconditional admission
- Minimum 3.000 undergraduate GPA on a 4.000 point scale for unconditional admission
- Official transcript(s)
- Goal statement
- GRE if undergraduate GPA is below 3.000
- Résumé or vita
- Two letters of recommendation
- Interview
- English language proficiency - all international students must provide proof of English language proficiency (unless they meet specific exceptions) by earning one of the following:
  - Minimum 550 TOEFL PBT score (paper-based version)
  - Minimum 79 TOEFL IBT score (Internet-based version)
  - Minimum 77 MELAB score
  - Minimum 6.5 IELTS score
  - Minimum 58 PTE score
  - Minimum 110 Duolingo English Test score

For more information about graduate admissions, please visit the Graduate Studies admission website. For more information on international admission, visit the Office of Global Education's admission website.

## Program Learning Outcomes

Graduates of this program will be able to:

1. Demonstrate a broad understanding of theories of student and adult development that guide the profession and influence student learning and development within their collegiate environment.
2. Demonstrate a basic understanding of and conversant knowledge of the legal issues facing higher education today, including being familiar with legislation that impacts decision making within higher education and understanding the rights and responsibilities of students, staff, faculty and institutions.
3. Demonstrate practical experience in two or more functional areas within higher education.
4. Demonstrate an understanding of the administrative and financial functions performed on a college or university campus.
5. Demonstrate an understanding of and commitment to the diverse nature of higher education in the United States, and will be able to articulate the challenges and opportunities associated with the provision of a diverse, multicultural educational setting.

## Program Requirements

### Major Requirements

Code	Title	Credit Hours
<b>Major Requirements</b>		
HIED 66492	INTERNSHIP IN HIGHER EDUCATION ADMINISTRATION	6
HIED 66652	LAW AND HIGHER EDUCATION	3
HIED 66653	COLLEGE STUDENT DEVELOPMENT: THEORY AND PRACTICE	3
HIED 66657	LEADERSHIP IN EDUCATION ORGANIZATIONS	3
HIED 66667	BUSINESS ADMINISTRATION IN HIGHER EDUCATION	3
HIED 66671	THE ADMINISTRATION OF MULTICULTURALISM AND DIVERSITY IN HIGHER EDUCATION	3
HIED 66676	INTERCULTURAL COMMUNICATION FOR INTERNATIONAL EDUCATORS	3
HIED 66749	ASSESSMENT AND EVALUATION IN HIGHER EDUCATION	3
Major Electives, choose from the following:		18
CES 68182	CAREER COUNSELING	
HIED 66492	INTERNSHIP IN HIGHER EDUCATION ADMINISTRATION	
HIED 66521	EMPLOYMENT LAW	
HIED 66595	SPECIAL TOPICS IN HIGHER EDUCATION ADMINISTRATION	
HIED 66596	INDIVIDUAL INVESTIGATION IN HIGHER EDUCATION ADMINISTRATION	
HIED 66600	HISTORY OF HIGHER EDUCATION	
HIED 66601	THE PRIVATE LIBERAL ARTS COLLEGE	
HIED 66651	STUDENT AFFAIRS FUNCTIONS IN HIGHER EDUCATION	
HIED 66654	STUDENTS AND THE COLLEGE ENVIRONMENT	
HIED 66655	CASE STUDIES IN HIGHER EDUCATION ADMINISTRATION	
HIED 66656	HIGHER EDUCATION CURRICULUM	
HIED 66658	THE COMMUNITY COLLEGE	
HIED 66660	FACULTY ROLES AND RESPONSIBILITIES	



HIED 66662	POLITICS AND POWER IN ORGANIZATIONS
HIED 66666	FINANCIAL MANAGEMENT IN HIGHER EDUCATION
HIED 66669	ADMINISTRATION OF STUDENT DISABILITY SERVICES IN HIGHER EDUCATION
HIED 66670	INTERNATIONALIZATION OF HIGHER EDUCATION INSTITUTIONS
HIED 66672	INTERNATIONAL STUDENTS AND AMERICAN COLLEGES
HIED 66673	RESEARCH IN ADMINISTRATION OF INTERNATIONAL HIGHER EDUCATION
HIED 66674	COMPARATIVE HIGHER EDUCATION
HIED 66675	DESIGN AND DELIVERY OF EDUCATION ABROAD PROGRAMS
HIED 66677	WORKFORCE, ECONOMIC AND COMMUNITY DEVELOPMENT IN COMMUNITY COLLEGES
HIED 66678	ISSUES AND TRENDS IN COMMUNITY COLLEGE ADMINISTRATION
HIED 66733	INTERPERSONAL AND GROUP DYNAMICS IN EDUCATIONAL ORGANIZATIONS

Additional electives as approved

Minimum Total Credit Hours:

45

## Hospitality and Tourism Management - M.S.

### College of Education Health and Human Services

School of Foundations, Leadership and Administration

300 White Hall

Kent Campus

330-672-2012

[www.kent.edu/ehhs/fla](http://www.kent.edu/ehhs/fla)

## Description

Admission to the Master of Science degree in Hospitality and Tourism Management has been temporarily suspended as of fall 2021.

The Master of Science degree in Hospitality and Tourism Management provides an integrated hospitality and tourism education with an emphasis on regional, national and global implications of the field. The curriculum combines specialty classes in hospitality and business management, preparing graduates for well-compensated positions as managers in restaurants, hotels, conference centers, country clubs and other hospitality venues.

### Fully Offered At:

- Kent Campus

## Admission Requirements

- Bachelor's degree from an accredited college or university for unconditional admission
- Minimum 3.000 undergraduate GPA on a 4.000 point scale for unconditional admission
- Official transcript(s)
- Résumé
- Work experience in hospitality or tourism is preferred.
- Goal statement describing professional and research goals

- Three letters of recommendation
- English language proficiency - all international students must provide proof of English language proficiency (unless they meet specific exceptions) by earning one of the following:
  - Minimum 550 TOEFL PBT score (paper-based version)
  - Minimum 79 TOEFL IBT score (Internet-based version)
  - Minimum 77 MELAB score
  - Minimum 6.5 IELTS score
  - Minimum 58 PTE score
  - Minimum 110 Duolingo English Test score

For more information about graduate admissions, please visit the Graduate Studies admission website. For more information on international admission, visit the Office of Global Education's admission website.

## Program Learning Outcomes

Graduates of this program will be able to:

1. Critically assess and discuss scientific research related to tourism and hospitality.
2. Discuss and evaluate the social/economic, global/multicultural, operational and environmental issues facing hospitality and tourism management.
3. Formulate professional attitudes and opinions related to the hospitality and tourism industry.
4. Describe the major steps and critically assess the research process.
5. Use, interpret and report scientific data.
6. Disseminate original scientific research and/or professional vision in a hospitality and tourism setting.

## Program Requirements

### Major Requirements

Code	Title	Credit Hours
<b>Major Requirements</b>		
EVAL 65510 or MIS 64005	STATISTICS I FOR EDUCATIONAL SERVICES ANALYTICS FOR DECISION MAKING	2-3
EVAL 65511	RESEARCH IN EDUCATIONAL SERVICES	3
HM 53025 or RPTM 56000	HOSPITALITY MARKETING TOURISM DEVELOPMENT AND RECREATIONAL TRAVEL	3
HM 63022	CURRENT ISSUES IN HOSPITALITY AND TOURISM MANAGEMENT	3
HM 63026	RESEARCH SEMINAR	1
RPTM 65041	TOURISM AND HOSPITALITY REVIEW	3
RPTM 65047	GLOBAL ISSUES OF TOURISM TRADE	3
Business Management Electives <sup>1</sup>		3-6
Focus Area Electives, choose from the following: <sup>2</sup>		3-8
CULT 69521	MULTICULTURAL EDUCATIONAL PRACTICE AND POLICY	
HM 53025	HOSPITALITY MARKETING	
HM 53027	HOSPITALITY HUMAN RESOURCE MANAGEMENT	
HM 53029	HOSPITALITY FINANCIAL POLICY	
HM 53030	FOOD SERVICE SYSTEMS MANAGEMENT	
HM 53040	STRATEGIC HOTEL MANAGEMENT	

HM 53043	HOSPITALITY MEETINGS MANAGEMENT
HM 63024	MANAGEMENT OF FOOD AND NUTRITION SERVICES
HM 63092	HOSPITALITY AND TOURISM MANAGEMENT PRACTICUM
HM 63095	SPECIAL TOPICS IN HOSPITALITY MANAGEMENT
RPTM 56000	TOURISM DEVELOPMENT AND RECREATIONAL TRAVEL
RPTM 56030	DYNAMICS OF LEISURE BEHAVIOR
RPTM 56060	ADMINISTRATION OF LEISURE SERVICES
RPTM 56070	PARK PLANNING
RPTM 65061	PHILOSOPHICAL AND SOCIAL BASES OF LEISURE AND SPORT
SPAD 55022	EVENT PLANNING AND PRODUCTION
SPAD 55024	SPORT IN GLOBAL PERSPECTIVE
SPAD 63195	SPECIAL TOPICS IN SPORT ADMINISTRATION
Other courses, as approved by faculty advisor	
Culminating Experience, choose from the following: 6	
<i>Non-Thesis Option</i>	
HM 51092	HOSPITALITY AND TOURISM MANAGEMENT PROFESSIONAL PRACTICUM
HM 64010	HOSPITALITY AND TOURISM MANAGEMENT CAPSTONE
<i>Thesis Option</i>	
HM 61199	THESIS I
or SPAD 63199 THESIS I	

Minimum Total Credit Hours: 35

- <sup>1</sup> In consultation with an advisor, students select 60000-level supporting courses from the College of Business Administration in one focus area, which may include marketing, financial management or human resource management.
- <sup>2</sup> Focus area coursework are to be based on student's professional goals and approved by advisor.

## Hospitality Management - B.S.

### College of Education Health and Human Services

School of Foundations, Leadership and Administration  
300 White Hall  
Kent Campus  
330-672-2012  
www.kent.edu/ehhs/fla

## Description

The Bachelor of Science degree in Hospitality Management prepares leaders for major hospitality industry segments through academic and research programs that value quality of life, business success, collaborative partnerships, creative approaches and ethical principles. Faculty members have advanced degrees in hospitality management and professional work experience in restaurants, hotels, club management, on-site food service, catering businesses and conference centers.

### Fully Offered At:

- Ashtabula Campus
- Kent Campus

## Accreditation

Accreditation Commission for Programs in Hospitality Administration

## Admission Requirements

The university affirmatively strives to provide educational opportunities and access to students with varied backgrounds, those with special talents and adult students who graduated from high school three or more years ago.

**Freshman Students on the Kent Campus:** The freshman admission policy on the Kent Campus is selective. Admission decisions are based upon the following: cumulative grade point average, ACT and/or SAT scores, strength of high school college preparatory curriculum and grade trends. The Admissions Office at the Kent Campus may defer the admission of students who do not meet admissions criteria but who demonstrate areas of promise for successful college study. Deferred applicants may begin their college coursework at one of seven regional campuses of Kent State University. For more information on admissions, including additional requirements for some academic programs, visit the admissions website for new freshmen.

**Freshman Students on the Regional Campuses:** Kent State campuses at Ashtabula, East Liverpool, Geauga, Salem, Stark, Trumbull and Tuscarawas, as well as the Regional Academic Center in Twinsburg, have open enrollment admission for students who hold a high school diploma, GED or equivalent.

### English Language Proficiency Requirements for International Students:

All international students must provide proof of English language proficiency (unless they meet specific exceptions) by earning a minimum 525 TOEFL score (71 on the Internet-based version), minimum 75 MELAB score, minimum 6.0 IELTS score or minimum 48 PTE score, or by completing the ESL level 112 Intensive Program. For more information on international admission, visit the Office of Global Education's admission website.

**Transfer, Transitioning and Former Students:** For more information about admission criteria for transfer, transitioning and former students, please visit the admissions website.

**Current Kent State and Transfer Students:** Active Kent State students who wish to change their major must have attempted a minimum 12 credit hours at Kent State and earned a minimum 2.000 overall Kent State GPA to be admitted. Students who have not attempted 12 credit hours at Kent State will be evaluated for admission based on their high school GPA for new students or transfer GPA for transfer students. Transfer students who have not attempted 12 credit hours of college-level coursework at Kent State and/or other institutions will be evaluated based on both their high school GPA and college GPA.

## University Requirements

All students in a bachelor's degree program at Kent State University must complete the following university requirements for graduation.

**NOTE:** University requirements may be fulfilled in this program by specific course requirements. Please see Program Requirements for details.

Destination Kent State: First Year Experience	1
Course is not required for students with 25 transfer credits, excluding College Credit Plus, or age 21+ at time of admission.	
Diversity Domestic/Global (DIVD/DIVG)	2 courses

Students must successfully complete one domestic and one global course, of which one must be from the Kent Core.	
Experiential Learning Requirement (ELR)	varies
Students must successfully complete one course or approved experience.	
Kent Core (see table below)	36-37
Writing-Intensive Course (WIC)	1 course
Students must earn a minimum C grade in the course.	
Upper-Division Requirement	39 (or 42)
Students must successfully complete 39 upper-division (numbered 30000 to 49999) credit hours to graduate. Students in a B.A. and/or B.S. degree in the College of Arts and Sciences must complete 42 upper-division credit hours.	
Total Credit Hour Requirement	120
Some bachelor's degrees require students to complete more than 120 credit hours.	

## Kent Core Requirements

Kent Core Composition (KCMP)	6
Kent Core Mathematics and Critical Reasoning (KMCR)	3
Kent Core Humanities and Fine Arts (KHUM/KFA) (min one course each)	9
Kent Core Social Sciences (KSS) (must be from two disciplines)	6
Kent Core Basic Sciences (KBS/KLAB) (must include one laboratory)	6-7
Kent Core Additional (KADL)	6
<b>Total Credit Hours:</b>	<b>36-37</b>

## Program Requirements

### Major Requirements

Code	Title	Credit Hours
<b>Major Requirements (courses count in major GPA)</b>		
ACCT 23020	INTRODUCTION TO FINANCIAL ACCOUNTING	3
CIS 24053	INTRODUCTION TO COMPUTER APPLICATIONS	3
HM 13022	SANITATION AND SAFETY PRINCIPLES AND PRACTICES	3
HM 13023	TECHNIQUES OF FOOD PRODUCTION	6
HM 13024	INTRODUCTION TO HOSPITALITY MANAGEMENT	3
HM 23030	HOTEL OPERATIONS	3
HM 33020	LEGAL ISSUES IN THE HOSPITALITY INDUSTRY	3
HM 33026	HOSPITALITY COST CONTROL AND ANALYSIS	3
HM 33028	HOSPITALITY PURCHASING	3
HM 33029	CATERING AND BANQUET MANAGEMENT	3
HM 33050	PROFESSIONAL PRACTICE IN HOSPITALITY MANAGEMENT	1
HM 43025	HOSPITALITY MARKETING	3
HM 43027	HOSPITALITY HUMAN RESOURCE MANAGEMENT (WIC) <sup>1</sup>	3
HM 43029	HOSPITALITY FINANCIAL POLICY	3
HM 43031	LAYOUT AND DESIGN OF FOOD SERVICE OPERATIONS	3
HM 43092	PRACTICUM IN HOSPITALITY MANAGEMENT (ELR) <sup>2</sup>	3-6
HRM 34180	HUMAN RESOURCE MANAGEMENT	3
MGMT 24163	PRINCIPLES OF MANAGEMENT	3
MKTG 25010	PRINCIPLES OF MARKETING	3

Professional Electives, choose from the following: 12-15

<i>Hotel</i>		
HM 37777	CASINO MANAGEMENT AND GAMING OPERATIONS	
HM 33040	CONVENTION SALES AND MANAGEMENT	
HM 43040	STRATEGIC HOTEL MANAGEMENT	
<i>Food and Beverage</i>		
HM 23012	INTRODUCTORY FOOD SCIENCE	
HM 33031	FOOD, WINE AND BEVERAGE PAIRING	
HM 33070	INTERNATIONAL CUISINE	
HM 33145	BAKING AND PASTRY FUNDAMENTALS	
<i>Hospitality Events and Meetings</i>		
HM 33040	CONVENTION SALES AND MANAGEMENT	
HM 33070	INTERNATIONAL CUISINE	
HM 43043	HOSPITALITY MEETINGS MANAGEMENT	
HM 43192	HOSPITALITY MEETINGS MANAGEMENT PRACTICUM (ELR)	
<i>Other</i>		
FIN 36053	BUSINESS FINANCE	
HM 21095	SPECIAL TOPICS IN HOSPITALITY MANAGEMENT	
HM 33036	CLUB MANAGEMENT	
HM 37777	CASINO MANAGEMENT AND GAMING OPERATIONS	
HM 41095	SPECIAL TOPICS IN HOSPITALITY MANAGEMENT	
HM 43035	HOSPITALITY SERVICE QUALITY MANAGEMENT	
RPTM 26060	INTRODUCTION TO GLOBAL TOURISM (DIVG)	
RPTM 36060	ENTREPRENEURIAL APPROACHES TO LEISURE AND HOSPITALITY SERVICES	
RPTM 46000	TOURISM DEVELOPMENT AND RECREATIONAL TRAVEL	
<b>Additional Requirements (courses do not count in major GPA)</b>		
COMM 15000	INTRODUCTION TO HUMAN COMMUNICATION (KADL)	3
ECON 22060	PRINCIPLES OF MICROECONOMICS (KSS)	3
ECON 22061	PRINCIPLES OF MACROECONOMICS (KSS)	3
NUTR 23511	SCIENCE OF HUMAN NUTRITION (KBS)	3
UC 10097	DESTINATION KENT STATE: FIRST YEAR EXPERIENCE	1
<b>Mathematics (MATH) Electives, choose from the following:</b>		<b>3</b>
MATH 10041	INTRODUCTORY STATISTICS (KMCR)	
or MATH 10040	INTRODUCTORY STATISTICS PLUS (KMCR)	
MATH 10051	QUANTITATIVE REASONING (KMCR)	
or MATH 10050	QUANTITATIVE REASONING PLUS (KMCR)	
MATH 11008	EXPLORATIONS IN MODERN MATHEMATICS (KMCR)	
MATH 11009	MODELING ALGEBRA (KMCR)	
or MATH 10772	MODELING ALGEBRA PLUS (KMCR)	
MATH 11010	ALGEBRA FOR CALCULUS (KMCR)	
or MATH 10675	ALGEBRA FOR CALCULUS BOOST (KMCR)	
or MATH 10775	ALGEBRA FOR CALCULUS PLUS (KMCR)	
MATH 11012	INTUITIVE CALCULUS (KMCR)	
MATH 11022	TRIGONOMETRY (KMCR)	
MATH 12002	ANALYTIC GEOMETRY AND CALCULUS I (KMCR)	
MATH 12011	CALCULUS WITH PRECALCULUS I (KMCR)	
MATH 12012	CALCULUS WITH PRECALCULUS II (KMCR)	

MATH 14001	BASIC MATHEMATICAL CONCEPTS I (KMCR)	
	or MATH 10771 BASIC MATHEMATICAL CONCEPTS I PLUS (KMCR)	
MATH 14002	BASIC MATHEMATICAL CONCEPTS II (KMCR)	
Kent Core Composition		6
Kent Core Humanities and Fine Arts (minimum one course from each)		9
Kent Core Social Sciences (must be from two disciplines)		3
Kent Core Basic Sciences (must include one laboratory)		3-4
General Electives (total credit hours depends on earning 120 credit hours, including 39 upper-division credit hours)		13
Minimum Total Credit Hours:		120

- <sup>1</sup> A minimum C grade must be earned to fulfill the writing-intensive requirement.
- <sup>2</sup> Maximum 6 credit hours of HM 43092 may apply towards the graduation requirements.

### Progression Requirements

Students must apply to and be admitted to the professional phase of the program, prior to taking HM 33050 in the junior year and HM 43092. Students need to provide documentation of the following to the Vacca Office of Student Services:

- Minimum 2.000 overall GPA
- Minimum 2.250 GPA in major coursework
- First Aid certificate
- CPR certificate
- 400 hours of faculty approved work hours within the hospitality industry
- ServSafe® Certificate or industry-approved certification
- Ohio Department of Health (ODH) approved Level II manager’s course and exam from an ODH approved site.
- Completion of the following courses:

Code	Title	Credit Hours
HM 13022	SANITATION AND SAFETY PRINCIPLES AND PRACTICES	3
HM 13023	TECHNIQUES OF FOOD PRODUCTION	6
HM 13024	INTRODUCTION TO HOSPITALITY MANAGEMENT	3
HM 23030	HOTEL OPERATIONS	3

### Graduation Requirements

Minimum Major GPA	Minimum Overall GPA
2.250	2.000

- Complete course requirements specified for the degree and meet all of the requirements listed above.

### Roadmap

This roadmap is a recommended semester-by-semester plan of study for this major. However, courses designated as critical (!) must be completed in the semester listed to ensure a timely graduation.

Semester One		Credits
HM 13022	SANITATION AND SAFETY PRINCIPLES AND PRACTICES	3
HM 13024	INTRODUCTION TO HOSPITALITY MANAGEMENT	3

UC 10097	DESTINATION KENT STATE: FIRST YEAR EXPERIENCE	1
Kent Core Requirement		3
Kent Core Requirement		3
Kent Core Requirement		3
Credit Hours		16
<b>Semester Two</b>		
CIS 24053	INTRODUCTION TO COMPUTER APPLICATIONS	3
HM 23030	HOTEL OPERATIONS	3
NUTR 23511	SCIENCE OF HUMAN NUTRITION (KBS)	3
Mathematics (MATH) Electives		3
Kent Core Requirement		3
Credit Hours		15
<b>Semester Three</b>		
ACCT 23020	INTRODUCTION TO FINANCIAL ACCOUNTING	3
COMM 15000	INTRODUCTION TO HUMAN COMMUNICATION (KADL)	3
HM 13023	TECHNIQUES OF FOOD PRODUCTION	6
Kent Core Requirement		3
Credit Hours		15
<b>Semester Four</b>		
! ECON 22060	PRINCIPLES OF MICROECONOMICS (KSS)	3
HM 33028	HOSPITALITY PURCHASING	3
MGMT 24163	PRINCIPLES OF MANAGEMENT	3
Kent Core Requirement		3
Kent Core Requirement		3
Credit Hours		15
<b>Semester Five</b>		
ECON 22061	PRINCIPLES OF MACROECONOMICS (KSS)	3
! HM 33026	HOSPITALITY COST CONTROL AND ANALYSIS	3
HM 33050	PROFESSIONAL PRACTICE IN HOSPITALITY MANAGEMENT	1
HRM 34180	HUMAN RESOURCE MANAGEMENT	3
Professional Elective		3
Credit Hours		13
<b>Semester Six</b>		
HM 33020	LEGAL ISSUES IN THE HOSPITALITY INDUSTRY	3
HM 33029	CATERING AND BANQUET MANAGEMENT	3
! MKTG 25010	PRINCIPLES OF MARKETING	3
Professional Electives		6
Credit Hours		15
<b>Third Summer Term</b>		
HM 43092	PRACTICUM IN HOSPITALITY MANAGEMENT (ELR)	3-6
Credit Hours		3
<b>Semester Seven</b>		
HM 43027	HOSPITALITY HUMAN RESOURCE MANAGEMENT (WIC)	3
HM 43029	HOSPITALITY FINANCIAL POLICY	3
Professional Elective		3
General Elective		6
Credit Hours		15
<b>Semester Eight</b>		
HM 43025	HOSPITALITY MARKETING	3
HM 43031	LAYOUT AND DESIGN OF FOOD SERVICE OPERATIONS	3

General Electives	7
Credit Hours	13
Minimum Total Credit Hours:	120

## Hospitality Management - Minor

### College of Education Health and Human Services

School of Foundations, Leadership and Administration

300 White Hall

Kent Campus

330-672-2012

[www.kent.edu/ehhs/fla](http://www.kent.edu/ehhs/fla)

## Description

The Hospitality Management minor is for students interested in a foundational knowledge of restaurants, hotels, private clubs, non-commercial food-service organizations and other hospitality organizations. Students in the minor may pursue specific areas of interest tied to the management of selected hospitality properties or management of events within hospitality organizations.

### Fully Offered At:

- Ashtabula Campus
- Kent Campus

## Admission Requirements

Admission to a minor is open to students declared in a bachelor's degree, the A.A.B. or A.A.S. degree or the A.T.S. degree (not Individualized Program major). Students declared only in the A.A. or A.S. degree or the A.T.S. degree in Individualized Program may not declare a minor. Students may not pursue a minor and a major in the same discipline.

To declare this minor, students must have attempted a minimum 12 credit hours at Kent State and have earned a minimum 2.500 overall Kent State GPA. Students who have not attempted 12 credit hours at Kent State will be evaluated for admission based on their high school GPA for new students or transfer GPA for transfer students. Transfer students who have not attempted 12 credit hours of college-level coursework at Kent State and/or other institutions will be evaluated based on both their high school GPA and college GPA.

Students are encouraged to declare the minor with a minimum of three to four semesters remaining before graduation and should meet with a faculty advisor to plan their course of study.

## Minor Requirements

Code	Title	Credit Hours
<b>Minor Requirements</b>		
ACCT 23020	INTRODUCTION TO FINANCIAL ACCOUNTING	3
HM 13024	INTRODUCTION TO HOSPITALITY MANAGEMENT	3
HM 23030	HOTEL OPERATIONS	3
HM 33026	HOSPITALITY COST CONTROL AND ANALYSIS	3
HM 43030	FOOD SERVICE SYSTEMS MANAGEMENT <sup>1</sup>	3
HM 43092	PRACTICUM IN HOSPITALITY MANAGEMENT (ELR) <sup>2</sup>	3

Minor Elective, choose from the following:		3
HM 33040	CONVENTION SALES AND MANAGEMENT	
HM 33070	INTERNATIONAL CUISINE	
HM 37777	CASINO MANAGEMENT AND GAMING OPERATIONS	
HM 43029	HOSPITALITY FINANCIAL POLICY	
HM 43040	STRATEGIC HOTEL MANAGEMENT	
HM 43043	HOSPITALITY MEETINGS MANAGEMENT	
Hospitality Management (HM) elective (faculty advisor approved)		
Minimum Total Credit Hours:		21

- <sup>1</sup> With permission, students may register for HM 43030 without completion of the prerequisite courses.
- <sup>2</sup> Students are encouraged to complete the majority of the required courses in the minor before taking HM 43092. Students may register for HM 43092 (with permission) without completion of the prerequisite courses. Student who have completed a practicum/internship in another program area that had significant hospitality component may be able to substitute that practicum/internship for HM 43092 in the minor with hospitality management faculty approval.

## Graduation Requirements

Minimum Minor GPA	Minimum Overall GPA
2.750	2.000

- Minimum 6 credit hours in the minor must be upper-division coursework (30000 and 40000 level).
- Minimum 6 credit hours in the minor must be outside of the course requirements for any major or other minor the student is pursuing.
- Minimum 50 percent of the total credit hours for the minor must be taken at Kent State (in residence).

## Institutional Research and Assessment - Graduate Certificate

### College of Education Health and Human Services

School of Foundations, Leadership and Administration

300 White Hall

Kent Campus

330-672-2012

[www.kent.edu/ehhs/fla](http://www.kent.edu/ehhs/fla)

## Description

The Institutional Research and Assessment graduate certificate is for professionals in or aspirants for leadership positions in post-secondary settings, as well for those who seek to learn more about assessment and institutional research and their role in American higher education. The program provides knowledge and skills development in the areas of higher education assessment, institutional research, technology and the organization of higher education. Students have the option of an internship experience in higher education at the conclusion of the certificate (strongly recommended for students without full-time work experience).



**Fully Offered At:**

- Kent Campus

Kent Campus  
330-672-2012  
www.kent.edu/ehhs/fla

**Admission Requirements**

- Official transcript(s)
- Goal statement
- Résumé
- Two letters of reference

For more information about graduate admission, please visit the Graduate Studies website.

**Program Requirements****Certificate Requirements**

Code	Title	Credit Hours
<b>Certificate Requirements</b>		
EVAL 65510	STATISTICS I FOR EDUCATIONAL SERVICES	3
EVAL 68806	HIGHER EDUCATION DATA AND INSTITUTIONAL RESEARCH	3
HIED 66665	TECHNOLOGY, SYSTEMS AND DATA IN HIGHER EDUCATION ADMINISTRATION	3
HIED 66749	ASSESSMENT AND EVALUATION IN HIGHER EDUCATION	3
Higher Education Knowledge Electives, choose from the following:		
HIED 66492	INTERNSHIP IN HIGHER EDUCATION ADMINISTRATION	3
HIED 66651	STUDENT AFFAIRS FUNCTIONS IN HIGHER EDUCATION	
HIED 66656	HIGHER EDUCATION CURRICULUM	
HIED 66662	POLITICS AND POWER IN ORGANIZATIONS	
Research Skills Elective, choose from the following:		
EVAL 65511	RESEARCH IN EDUCATIONAL SERVICES	3
EVAL 65515	QUANTITATIVE RESEARCH DESIGN AND ANALYSIS	
EVAL 68715	SURVEY DESIGN AND APPLIED RESEARCH IN EDUCATION	
EVAL 68716	STATISTICS II: ANOVA AND NONPARAMETRIC TESTS	
Minimum Total Credit Hours:		18

**Graduation Requirements**

Minimum Certificate GPA	Minimum Overall GPA
3.000	

- Students declared in a doctoral degree should enroll in the doctoral level version of these courses, if offered.

**Internationalization of Higher Education - Graduate Certificate**

College of Education Health and Human Services  
School of Foundations, Leadership and Administration  
300 White Hall

**Description**

The Internationalization of Higher Education graduate certificate meets the needs in higher education for administrative leaders, staff and faculty to have a comprehensive understanding of internationalization, along with well-articulated skills, knowledge and dispositions to improve institutional capacity for internationalization. Internationalization is one of the profound and transformational changes occurring in contemporary colleges and universities. Institution-wide commitment is needed if all students are to achieve learning outcomes with international and intercultural content. The certificate is designed to strengthen students' skills for working in college and university settings.

**Fully Offered At:**

- Kent Campus

**Admission Requirements**

- Bachelor's degree (master's degree preferred)
- Minimum 3.000 GPA<sup>1</sup>
- Official transcript(s)
- Résumé (or curriculum vita)
- Goal statement
- Two letters of recommendation

For more information about graduate admission, please visit the Graduate Studies website.

<sup>1</sup> Post-baccalaureate work will be taken into consideration when interpreting GPA for admission.

**Program Requirements****Certificate Requirements**

Code	Title	Credit Hours
<b>Certificate Requirements</b>		
HIED 66492	INTERNSHIP IN HIGHER EDUCATION ADMINISTRATION	3
HIED 66670	INTERNATIONALIZATION OF HIGHER EDUCATION INSTITUTIONS	3
Certificate Electives, choose from the following:		
HIED 66671	THE ADMINISTRATION OF MULTICULTURALISM AND DIVERSITY IN HIGHER EDUCATION	3
HIED 66672	INTERNATIONAL STUDENTS AND AMERICAN COLLEGES	3
HIED 66673	RESEARCH IN ADMINISTRATION OF INTERNATIONAL HIGHER EDUCATION	3
HIED 66674	COMPARATIVE HIGHER EDUCATION	3
HIED 66675	DESIGN AND DELIVERY OF EDUCATION ABROAD PROGRAMS	3
HIED 66676	INTERCULTURAL COMMUNICATION FOR INTERNATIONAL EDUCATORS	3

Additional elective as approved by certification advisor

Minimum Total Credit Hours: 15

## Graduation Requirements

Minimum Certificate GPA	Minimum Overall GPA
3.000	

- Students declared in a doctoral degree should enroll in the doctoral level version of these courses, if offered.

## Interprofessional Leadership - Ed.D.

### College of Education Health and Human Services

School of Foundations, Leadership and Administration

300 White Hall

Kent Campus

330-672-2012

[www.kent.edu/ehhs/fla](http://www.kent.edu/ehhs/fla)

## Description

The Doctor of Education degree in Interprofessional Leadership allows for the study of leadership from an interprofessional perspective that is framed around questions of equity, ethics, and social justice to bring about solutions to complex problems of practice. The program prepares leaders who can construct and apply knowledge to make a positive difference in the lives of individuals, families, organizations, and communities. Field-based opportunities are provided to analyze problems of practice and use multiple frames to develop meaningful solutions.

The Ed.D. degree in Interprofessional Leadership is cohort-based, starting in the summer term, with students taking a maximum of five years to complete the degree. Students select a cognate area for specialized study. Examples of cognates include special education, educational technology, curriculum and instruction, athletic training education and cultural foundations in education.

### Fully Offered At:

- Online

## Admission Requirements

- Master's degree from an accredited college or university for unconditional admission
- Minimum 3.000 graduate GPA on a 4.000 point scale for unconditional admission
- Official transcript(s)
- Résumé
- Goal statement (2-4 pages, explaining how applicant's career intentions relate to and will be supported by the program, what they bring to the program, and how they intend to use the degree to affect their practice)
- Three letters of recommendation from organizational supervisors evidencing the applicant's leadership capacity and experience in the organization and/or from former professors attesting to the applicant's capacity for doctoral work
- Interview with designated program faculty (face-to-face or by video conference)

- English language proficiency - all international students must provide proof of English language proficiency (unless they meet specific exceptions) by earning one of the following:

- Minimum 550 TOEFL PBT score (paper-based version)
- Minimum 79 TOEFL IBT score (Internet-based version)
- Minimum 77 MELAB score
- Minimum 6.5 IELTS score
- Minimum 58 PTE score
- Minimum 110 Duolingo English Test score

Applicants will be reviewed holistically based their professional experience and the requirements listed above. For more information about graduate admissions, please visit the Graduate Studies admission website. For more information on international admission, visit the Office of Global Education's admission website.

## Program Learning Outcomes

Graduates of this program will be able to:

- Frame questions of organizational leadership, educational change and social justice to bring about solutions to complex problems of practice
- Develop and demonstrate a professional knowledge base that integrates both practical and research knowledge, and that links theory with systemic and systematic inquiry
- Construct and apply knowledge interprofessionally to make a positive difference in the lives of individuals, families, organizations and communities
- Develop and demonstrate interprofessional collaboration and communication skills to work with diverse communities and to build partnerships
- Analyze problems of practice and use multiple interprofessional frames to develop meaningful solutions
- Generate, transform and use professional knowledge in practice
- Integrate technology as a tool for teaching, learning, assessment, management, planning and communication

## Program Requirements

### Major Requirements

Code	Title	Credit Hours
<b>Major Requirements</b>		
CULT 85535	INTERPROFESSIONAL STUDIES	3
EDLE 76529	LEADING FOR SOCIAL JUSTICE	3
EHHS 75001	SYSTEMS THINKING IN PERSONAL AND PROFESSIONAL LEADERSHIP	3
EHHS 75501	THEORY AND PRACTICE OF LEADERSHIP	3
EHHS 75502	ETHICAL LEADERSHIP IN EDUCATION	3
EVAL 75550	INTRODUCTION TO QUANTITATIVE RESEARCH IN EDUCATION	3
EVAL 78807	PROGRAM EVALUATION	3
EVAL 85516	QUALITATIVE RESEARCH DESIGN	3
EVAL 85530	PRACTITIONER INQUIRY	3
MIS 74160	LEADERSHIP AND ORGANIZATIONAL CHANGE	3
Cognate Area: students select a cognate with advisor consultation:		12
<i>Athletic Training Education</i>		
ATTR 75001	EVIDENCE BASED INTERVENTIONS IN ATHLETIC TRAINING	

ATTR 75002	ACADEMIC AND ADMINISTRATIVE LEADERSHIP IN ATHLETIC TRAINING	
ATTR 75003	CONTINUOUS QUALITY IMPROVEMENT AND ASSESSMENT IN ATHLETIC TRAINING	
ATTR 75004	TEACHING AND CLINICAL EDUCATION LEADERSHIP IN ATHLETIC TRAINING	
<i>Cultural Foundations of Education</i>		
CULT 79575	ANTHROPOLOGY AND EDUCATION	
CULT 80030	SOCIAL CONTEXTS OF EDUCATION: CONTEMPORARY ISSUES AND THEORY	
CULT 89521	MULTICULTURAL EDUCATIONAL PRACTICE AND POLICY	
CULT 89691	VARIABLE CONTENT SEMINAR: GREAT IDEAS IN EDUCATION	
<i>Curriculum and Instruction</i>		
CI 71130	MULTICULTURAL EDUCATION: STRATEGIES	
CI 77001	FUNDAMENTALS OF CURRICULUM	
CI 77002	CURRICULUM LEADERSHIP	
CI 77010	CURRICULUM EVALUATION	
<i>Educational Technology</i>		
ETEC 77434	EMERGING TECHNOLOGIES FOR EDUCATION	
ETEC 77445	DESIGNING INSTRUCTIONAL AND PERFORMANCE SOLUTIONS	
ETEC 77491	SEMINAR: EDUCATIONAL TECHNOLOGY	
ETEC 87450	LEARNING WITH EDUCATIONAL TECHNOLOGIES	
<i>Special Education</i>		
SPED 73204	LEGAL AND POLICY FOUNDATIONS OF SPECIAL EDUCATION	
SPED 73300	RESEARCH APPLICATIONS IN SPECIAL EDUCATION	
SPED 83201	CONTEMPORARY ISSUES IN SPECIAL EDUCATION	
SPED 83301	SINGLE-SUBJECT RESEARCH METHODS	
<b>Culminating Requirement</b>		
EHHS 81099	CAPSTONE I <sup>1</sup>	18
Minimum Total Credit Hours:		60

<sup>1</sup> Students must register for EHHS 81099 for a total of 18 credit hours. It is expected that a doctoral candidate will continuously register for EHHS 81099, and thereafter EHHS 82099, each semester, until all requirements for the degree have been met. Credit hours for EHHS 82099 do not count toward the degree.

## Graduation Requirements

Students will present a professional portfolio upon the completion of coursework. The portfolio will include elements of selected coursework that best represents the student's learning prior to moving onto the capstone. Students choose the artifacts to be included in the portfolio that will form the basis for dissertation research. Each portfolio artifact will be accompanied by a narrative that provides a rationale for the inclusion of the artifact. Students prepare the portfolio in an online format and defend to a committee of two faculty members from within the cognate area (either face-to-face or by video conferencing). The capstone will be a "dissertation in practice." Student research will be aligned with the needs of their organizations, useful to their organizations, and intended to effect positive change in their organizations.

## Roadmap

This roadmap is a recommended semester-by-semester plan of study for this major. However, courses designated as critical (!) must be completed in the semester listed to ensure a timely graduation.

<b>Semester One</b>		<b>Credits</b>
CULT 85535	INTERPROFESSIONAL STUDIES	3
EHHS 75501	THEORY AND PRACTICE OF LEADERSHIP	3
Credit Hours		6
<b>Semester Two</b>		
EVAL 85530	PRACTITIONER INQUIRY	3
Cognate Course 1		3
Credit Hours		6
<b>Semester Three</b>		
EDLE 76529	LEADING FOR SOCIAL JUSTICE	3
EVAL 85516	QUALITATIVE RESEARCH DESIGN	3
Credit Hours		6
<b>Semester Four</b>		
EVAL 75550	INTRODUCTION TO QUANTITATIVE RESEARCH IN EDUCATION	3
Cognate Course 2		3
Credit Hours		6
<b>Semester Five</b>		
EVAL 78807	PROGRAM EVALUATION	3
Cognate Course 3		3
Credit Hours		6
<b>Semester Six</b>		
EHHS 75502	ETHICAL LEADERSHIP IN EDUCATION	3
Cognate Course 4		3
Credit Hours		6
<b>Semester Seven</b>		
EHHS 75001	SYSTEMS THINKING IN PERSONAL AND PROFESSIONAL LEADERSHIP	3
MIS 74160	LEADERSHIP AND ORGANIZATIONAL CHANGE	3
Credit Hours		6
<b>Semester Eight</b>		
EHHS 81099	CAPSTONE I	9
Credit Hours		9
<b>Semester Nine</b>		
EHHS 81099	CAPSTONE I	9
Credit Hours		9
Minimum Total Credit Hours:		60

## Ohio Superintendent's Licensure - Graduate Certificate

**College of Education Health and Human Services**  
 School of Foundations, Leadership and Administration  
 300 White Hall  
 Kent Campus  
 330-672-2012  
[www.kent.edu/ehhs/fla](http://www.kent.edu/ehhs/fla)

## Description

Admission to the Ohio Superintendent's Licensure graduate certificate has been temporarily suspended as of fall 2020.

The Ohio Superintendent's Licensure graduate certificate is designed to meet the standards of the Educational Leadership Constituent's Council for preparation of district-level educational leadership. The Ohio superintendent license requires three years of experience in a position requiring a principal or administrative specialist license. This license permits the holder to serve in any school administrative position, pre-kindergarten to grade 12, with the exception of school treasurer.

### Fully Offered At:

- Online

## Admission Requirements

- Master's degree from an accredited institution
- Minimum 3.000 GPA
- Official transcript(s)
- Goal statement
- Two letters of recommendation
- Interview

For more information about graduate admission, please visit the Graduate Studies website.

## Program Requirements

### Certificate Requirements

Code	Title	Credit Hours
<b>Certificate Requirements</b>		
EDLE 76492	INTERNSHIP IN EDUCATIONAL ADMINISTRATION	3
EDLE 76515	FACILITIES PLANNING AND ADMINISTRATION	3
EDLE 76522	PUBLIC SCHOOL FINANCE AND ECONOMICS	3
EDLE 76529	LEADING FOR SOCIAL JUSTICE	3
EDLE 76534	THE SUPERINTENDENCY	3
EDLE 76747	PERSONNEL	3
Minimum Total Credit Hours:		18

### Graduation Requirements

Minimum Certificate GPA	Minimum Overall GPA
3.000	

- All coursework must be taken at Kent State University. Substitutions or modifications are considered on a case-by-case basis and must be approved in writing by the student's assigned advisor (degree students) or program coordinator (non-degree students).

## Park Management - Minor

College of Education Health and Human Services  
School of Foundations, Leadership and Administration  
300 White Hall

Kent Campus  
330-672-2012  
www.kent.edu/ehhs/fla

## Description

The Park Management minor prepares students to have specialties in their careers in outdoor recreation and parks. Emphasis is on sustainable management of parks and other natural environments for human enjoyment, environmental education and ecological diversity. The program provides students with knowledge, skills and abilities through coursework and hands-on, field-based experiences.

This Park Management minor can relate to a variety of public agencies and non-profit organizations such as the National Park Service, the U.S. Forest Service, state and local park agencies, the Nature Conservancy, as well as private outfitters, guiding services, residential camps, Outward Bound and National Outdoor Leadership School.

### Fully Offered At:

- Kent Campus

## Admission Requirements

Admission to a minor is open to students declared in a bachelor's degree, the A.A.B. or A.A.S. degree or the A.T.S. degree (not Individualized Program major). Students declared only in the A.A. or A.S. degree or the A.T.S. degree in Individualized Program may not declare a minor. Students may not pursue a minor and a major in the same discipline.

Students declared in the Recreation, Park and Tourism Management major may not declare the Park Management minor.

To declare this minor, students must have attempted a minimum 12 credit hours at Kent State and earned a minimum 2.250 overall Kent State GPA. Students who have not attempted 12 credit hours at Kent State will be evaluated for admission based on their high school GPA for new students or transfer GPA for transfer students. Transfer students who have not attempted 12 credit hours of college-level coursework at Kent State and/or other institutions will be evaluated based on both their high school GPA and college GPA.

## Minor Requirements

Code	Title	Credit Hours
<b>Minor Requirements</b>		
RPTM 26081	PRINCIPLES OF OUTDOOR RECREATION	3
RPTM 36082	INTERPRETATION OF NATURAL AND CULTURAL RESOURCES	3
RPTM 36083	ENVIRONMENTAL EDUCATION AND CONSERVATION	3
RPTM 46070	PARK PLANNING	3
Recreation, Part and Tourism Management (RPTM) Electives		6
Minimum Total Credit Hours:		18

## Graduation Requirements

Minimum Minor GPA	Minimum Overall GPA
2.250	2.000

- Minimum 6 credit hours in the minor must be upper-division coursework (30000 and 40000 level).
- Minimum 6 credit hours in the minor must be outside of the course requirements for any major or other minor the student is pursuing.
- Minimum 50 percent of the total credit hours for the minor must be taken at Kent State (in residence).

## Principal Grades 4-9 Licensure Preparation - Non-Degree

### College of Education Health and Human Services

School of Foundations, Leadership and Administration  
300 White Hall  
Kent Campus  
330-672-2012  
www.kent.edu/ehhs/fla

## Description

**Admission to the Non-degree Graduate (NDGL) program for Principal Grades 4-9 Licensure Preparation has been temporarily suspended as of fall 2020.**

This non-degree Principal Grades 4-9 Licensure Preparation program will prepare students to obtain the Ohio Principal 4-9 License. In this program, students will complete sequence of courses leading to licensure. Completion of the coursework is a prerequisite to being recommended by Kent State University for licensure, and licenses are granted by the Ohio Department of Education.

The non-degree program is not a Master's degree program. Students interested in obtaining a principal license and a master's degree from Kent State University must also be fully admitted into the master's degree program and complete the prescribed coursework on the master's degree prospectus, in addition to courses that are prescribed here for licensure.

### Fully Offered At:

- Kent Campus

## Admission Requirements

- Evidence of at least two years of successful teaching experience under a professional teacher license at the 4-9 grade level
- Goal statement
- Official transcript( s)
- Minimum 3.000 GPA
- Two letters of recommendation
- GRE (if GPA below 3.000 GPA)

## Program Learning Outcomes

Completers of this non-degree program will be able to:

1. Describe the Ohio Standards for Principals
2. Describe the Ohio Standards for the Teaching Profession

3. Describe the Ohio Standards for Professional Development
4. Describe the Ohio School Operating Standards
5. Describe the Ohio Value Added Progress Dimension(s)
6. Demonstrate knowledge and skills consistent with the ELCC District and/or NELP District standards
7. Demonstrate knowledge and skills identified in CAEP Advanced Standard A. 1

## Program Requirements

### Licensure Requirements

Code	Title	Credit Hours
<b>Licensure Requirements</b>		
EDLE 66492	INTERNSHIP IN EDUCATIONAL ADMINISTRATION <sup>1</sup>	3
EDLE 66518	SCHOOL AND SPECIAL EDUCATION LAW	3
EDLE 66525	THE EDUCATIONAL PRINCIPALSHIP	3
EDLE 66526	FUNDAMENTALS OF EDUCATIONAL ADMINISTRATION	3
EDLE 66527	SCHOOL FINANCE FOR BUILDING ADMINISTRATORS	3
EDLE 66529	LEADING FOR SOCIAL JUSTICE	3
EDLE 66531	INSTRUCTIONAL LEADERSHIP <sup>1</sup>	3
EDLE 66536	THE ADMINISTRATOR'S ROLE IN CURRICULUM DEVELOPMENT <sup>1</sup>	3
EDLE 66542	PRINCIPLES AND TECHNIQUES OF SUPERVISION AND SPECIAL EDUCATION	3
EDLE 66544	COMMUNITY RELATIONS AND COMMUNICATION SKILLS	3
EVAL 65511	RESEARCH IN EDUCATIONAL SERVICES	3
Minimum Total Credit Hours:		33

<sup>1</sup> Content must be consistent with the certification level; internship must be completed within grade band of intended licensure.

### Progression Requirement

- Must maintain a 3.000 overall GPA

### Graduation Requirements

- Minimum 3.000 overall GPA
- A master's degree, with a core of coursework in Educational Leadership plus 3 additional hours for the internship is required for this license.
- Students declared in a doctoral degree should enroll in the doctoral level version of these courses, if offered.

### Licensure Information

Candidates seeking Ohio teaching licensure are required to pass specific requirements in order to apply for licensure from the Ohio Department of Education (ODE). The candidate must earn the qualifying score of 220 on the Ohio Assessments for Educators: Educational Leadership. Students should consult the Special Education Department for specific program requirements and refer to the Ohio Department of Education - Educator Preparation website for more information on assessments specific to licensure type.



## Principal Grades 5-12 Licensure Preparation - Non-Degree

### College of Education Health and Human Services

School of Foundations, Leadership and Administration

300 White Hall

Kent Campus

330-672-2012

www.kent.edu/ehhs/fla

## Description

**Admission to the Non-degree Graduate (NDGL) program for Principal Grades 5-12 Licensure Preparation has been temporarily suspended as of fall 2020.**

The Principal Grades 5-12 Licensure Preparation non-degree program will prepare students to obtain the Ohio Principal 5-1 2 License. The administrative specialist license is valid for working in a central office or supervisory capacity. In this program, students will complete sequence of courses leading to license. Completion of the coursework is a prerequisite to being recommended by Kent State University for licensure, and licenses are granted by the Ohio Department of Education.

The non-degree program is not a Master's degree program. Students interested in obtaining a principal license and a master's degree from Kent State University must also be fully admitted into the master's degree program and complete the prescribed coursework on the master's degree prospectus, in addition to courses that are prescribed here for licensure.

### Fully Offered At:

- Kent Campus

## Admission Requirements

- Evidence of at least two years of successful teaching experience under a professional teacher license at the 5-1 2 grade level
- Goal statement
- Official transcript(s)
- Minimum 3.000 GPA
- Two letters of recommendation
- GRE (if GPA below a 3.000)

## Program Learning Outcomes

Completers of this non-degree program will be able to:

1. Describe the Ohio Standards for Principals
2. Describe the Ohio Standards for the Teaching Profession
3. Describe the Ohio Standards for Professional Development
4. Describe the Ohio School Operating Standards
5. Describe the Ohio Value Added Progress Dimension(s)
6. Demonstrate knowledge and skills consistent with the ELCC District and/or NELP District standards
7. Demonstrate knowledge and skills identified in CAEP Advanced Standard A. 1

## Program Requirements Licensure Requirements

Code	Title	Credit Hours
<b>Licensure Requirements</b>		
EDLE 66492	INTERNSHIP IN EDUCATIONAL ADMINISTRATION <sup>1</sup>	3
EDLE 66518	SCHOOL AND SPECIAL EDUCATION LAW	3
EDLE 66525	THE EDUCATIONAL PRINCIPALSHIP	3
EDLE 66526	FUNDAMENTALS OF EDUCATIONAL ADMINISTRATION	3
EDLE 66527	SCHOOL FINANCE FOR BUILDING ADMINISTRATORS	3
EDLE 66529	LEADING FOR SOCIAL JUSTICE	3
EDLE 66531	INSTRUCTIONAL LEADERSHIP <sup>1</sup>	3
EDLE 66536	THE ADMINISTRATOR'S ROLE IN CURRICULUM DEVELOPMENT <sup>1</sup>	3
EDLE 66542	PRINCIPLES AND TECHNIQUES OF SUPERVISION AND SPECIAL EDUCATION	3
EDLE 66544	COMMUNITY RELATIONS AND COMMUNICATION SKILLS	3
EVAL 65511	RESEARCH IN EDUCATIONAL SERVICES	3
Minimum Total Credit Hours:		33

<sup>1</sup> Content must be consistent with the certification level; internship must be completed within grade band of intended licensure.

## Progression Requirements

- Must maintain a 3.000 overall GPA

## Graduation Requirements

- Minimum 3.000 overall GPA
- A master's degree, with a core of coursework in Educational Leadership plus 3 additional hours for the internship, is required for this license.
- Students declared in a doctoral degree should enroll in the doctoral level version of these courses, if offered..

## Licensure Information

Candidates seeking Ohio teaching licensure are required to pass specific requirements in order to apply for licensure from the Ohio Department of Education (ODE). The candidate must earn the qualifying score of 220 on the Ohio Assessments for Educators: Educational Leadership. Students should consult the Special Education Department for specific program requirements and refer to the Ohio Department of Education - Educator Preparation website for more information on assessments specific to licensure type.

## Principal Grades PK-6 Licensure Preparation - Non-Degree

### College of Education Health and Human Services

School of Foundations, Leadership and Administration

300 White Hall

Kent Campus

330-672-2012

www.kent.edu/ehhs/fla

## Description

**Admission to the Non-degree Graduate (NDGL) program for Principal Grades PK-6 Licensure Preparation has been temporarily suspended as of fall 2020.**

The Principal Grades PK-6 Licensure Preparation non-degree program will prepare students to obtain the Ohio Principal PK-6 License. In this program, students will complete sequence of courses leading to license. Completion of the coursework is a prerequisite to being recommended by Kent State University for licensure, and licenses are granted by the Ohio Department of Education.

The non-degree program is not a master's degree program. Students interested in obtaining a principal license and a master's degree from Kent State University must also be fully admitted into the master's degree program and complete the prescribed coursework on the master's degree prospectus, in addition to courses that are prescribed here for licensure.

### Fully Offered At:

- Kent Campus

## Admission Requirements

- Evidence of at least two years of successful teaching experience under a professional teacher license at the PK-6 level
- Goal statement
- Official transcript(s)
- Minimum 3.000 GPA
- Two letters of recommendation
- GRE if GPA below 3.000 GPA

## Program Learning Outcomes

Completers of this non-degree program will be able to:

1. Describe the Ohio Standards for Principals
2. Describe the Ohio Standards for the Teaching Profession
3. Describe the Ohio Standards for Professional Development
4. Describe the Ohio School Operating Standards
5. Describe the Ohio Value Added Progress Dimension(s)
6. Demonstrate knowledge and skills consistent with the ELCC District and/or NELP District standards
7. Demonstrate knowledge and skills identified in CAEP Advanced Standard A. 1

## Program Requirements

### Licensure Requirements

Code	Title	Credit Hours
<b>Licensure Requirements</b>		
EDLE 66492	INTERNSHIP IN EDUCATIONAL ADMINISTRATION	3
EDLE 66518	SCHOOL AND SPECIAL EDUCATION LAW	3
EDLE 66525	THE EDUCATIONAL PRINCIPALSHIP	3
EDLE 66526	FUNDAMENTALS OF EDUCATIONAL ADMINISTRATION	3

EDLE 66527	SCHOOL FINANCE FOR BUILDING ADMINISTRATORS	3
EDLE 66529	LEADING FOR SOCIAL JUSTICE	3
EDLE 66531	INSTRUCTIONAL LEADERSHIP	3
EDLE 66536	THE ADMINISTRATOR'S ROLE IN CURRICULUM DEVELOPMENT	3
EDLE 66542	PRINCIPLES AND TECHNIQUES OF SUPERVISION AND SPECIAL EDUCATION	3
EDLE 66544	COMMUNITY RELATIONS AND COMMUNICATION SKILLS	3
Eval 65511	RESEARCH IN EDUCATIONAL SERVICES	3
Minimum Total Credit Hours:		33

### Progression Requirements

- Must maintain a 3.000 overall GPA

### Graduation Requirements

- Minimum 3.000 overall GPA
- Students declared in a doctoral degree should enroll in the doctoral level version of these courses, if offered.

### Licensure Information

Candidates seeking Ohio teaching licensure are required to pass specific requirements in order to apply for licensure from the Ohio Department of Education (ODE). The candidate must earn the qualifying score of 220 on the Ohio Assessments for Educators: Educational Leadership. Students should consult the Special Education Department for specific program requirements and refer to the Ohio Department of Education - Educator Preparation website for more information on assessments specific to licensure type.

A master's degree, with a core of coursework in Educational Leadership plus 3 additional hours for the internship, is required for this license.

## Qualitative Research - Graduate Certificate

### College of Education Health and Human Services

School of Foundations, Leadership and Administration

300 White Hall

Kent Campus

330-672-2012

[www.kent.edu/ehhs/fla](http://www.kent.edu/ehhs/fla)

## Description

The Qualitative Research graduate certificate is for students who wish to improve their ability to design, conduct, analyze and quality-assess qualitative approaches to research used in the context of funded research, educational assessment, program evaluation, critical, creative, exploratory, or theoretical endeavors or other applications. The courses in this program offer students inter- and trans-disciplinary opportunities to learn and develop skills in qualitative methodologies, including grounded theory, phenomenology, ethnography and descriptive approach; as well as methods, including observation, interviewing, transcription, data analysis, use of software, analytic memoing and others.

### Fully Offered At:

- Kent Campus

## Admission Requirements

- Official transcript(s)
- Résumé
- Goal statement
- Two letters of recommendations

Review of applications will be handled by one of the certificate co-coordinators, who will also evaluate prerequisites (if substitute syllabi are submitted by student). For more information about graduate admission, please visit the Graduate Studies website.

## Program Learning Outcomes

Graduates of this program will be able to:

1. Argue for the value of qualitative methodological approaches and help others understand the value of this form of inquiry to enhance understanding within their respective fields.
2. Critique and review a wide variety of qualitative research in their respective fields.
3. Create and enact a variety of forms of high-quality, ethical qualitative research in their respective fields.

## Program Requirements

### Certificate Requirements

Code	Title	Credit Hours
<b>Certificate Requirements</b>		
Introductory Electives, choose from the following: <sup>1</sup>		3
COMM 65040	QUALITATIVE RESEARCH METHODS IN COMMUNICATION	
EVAL 65516	QUALITATIVE RESEARCH DESIGN	
GEOG 60900	QUALITATIVE RESEARCH METHODS IN GEOGRAPY	
POL 60010	QUALITATIVE RESEARCH METHODS	
SBS 83010	QUALITATIVE METHODS FOR PUBLIC HEALTH RESEARCH	
SOC 62219	QUALITATIVE METHODS IN SOCIOLOGY	
Research Design/Analysis Electives, choose from the following:		6
EVAL 65516	QUALITATIVE RESEARCH DESIGN	
EVAL 85518	ADVANCED QUALITATIVE RESEARCH IN EDUCATIONAL SERVICES	
GEOG 60900	QUALITATIVE RESEARCH METHODS IN GEOGRAPY	
POL 60010	QUALITATIVE RESEARCH METHODS	
SBS 83010	QUALITATIVE METHODS FOR PUBLIC HEALTH RESEARCH	
SBS 83011	QUALITATIVE DATA ANALYSIS	
SOC 62219	QUALITATIVE METHODS IN SOCIOLOGY	
SOC 62221	ADVANCED QUALITATIVE METHODS IN SOCIOLOGY	
Certificate Electives, choose from the following: <sup>2</sup>		9
CULT 60050	HUMANITIES-ORIENTED RESEARCH IN EDUCATION	
EVAL 85520	MIXED METHODS RESEARCH	
EVAL 65530	PRACTITIONER INQUIRY	
EVAL 85540	GROUNDED THEORY AND PHENOMENOLOGICAL RESEARCH	

EVAL 85550	ETHNOGRAPHY AND CASE STUDY RESEARCH	
EVAL 85560	CRITICAL SOCIAL RESEARCH	
EVAL 88795	SPECIAL TOPICS: EVALUATION AND MEASUREMENT	
GEOG 52053	GEOGRAPHIES OF MEMORY AND HERITAGE	
MUS 73283	RESEARCH IN MUSIC EDUCATION	
MUS 73285	PHILOSOPHY OF MUSIC EDUCATION	
MUS 73286	SOCIOLOGY OF MUSIC EDUCATION	
Minimum Total Credit Hours:		18

- <sup>1</sup> These courses can be used to fulfill the requirement for other required courses if the following conditions are met: (1) the course was not previously taken to fulfill the required first course requirement; (2) the course is outside of the student's primary major or degree area.
- <sup>2</sup> Other courses that may be applied toward this elective requirement are special topics and independent study courses offered by faculty/ departments with courses represented by the certificate—or in Anthropology (ANTH), Computer Science (CS), Interior Design (ID) or in others—as approved by a program co-coordinator.

## Graduation Requirements

Minimum Certificate GPA	Minimum Overall GPA
3.000	

- Students declared in a doctoral degree should enroll in the doctoral-level version of these courses if offered.
- Prior coursework may be counted for all requirements, as long as it is substantially similar as judged by syllabi from the course and is less than six years old at time of earning the certificate. Students may substitute courses at the discretion of the program coordinators.

## Recreation Management - Minor

### College of Education Health and Human Services

School of Foundations, Leadership and Administration

300 White Hall

Kent Campus

330-672-2012

[www.kent.edu/ehhs/fla](http://www.kent.edu/ehhs/fla)

## Description

The Recreation Management minor prepares students to conduct recreation activities in a variety of settings with diverse populations in community recreation centers, youth development agencies, campus recreation and wellness centers, adventure centers, corporate recreation and fitness programs, military recreation, senior centers, youth sports organizations, and camps. The program provides students with knowledge, skills and abilities through coursework and hands-on, field-based experiences.

## Fully Offered At:

- Kent Campus

## Admission Requirements

Admission to a minor is open to students declared in a bachelor's degree, the A.A.B. or A.A.S. degree or the A.T.S. degree (not Individualized

Program major). Students declared only in the A.A. or A.S. degree or the A.T.S. degree in Individualized Program may not declare a minor. Students may not pursue a minor and a major in the same discipline.

Students declared in the Recreation, Park and Tourism Management major may not declare the Recreation Management minor.

To declare this minor, students must have attempted a minimum 12 credit hours at Kent State and earned a minimum 2.250 overall Kent State GPA. Students who have not attempted 12 credit hours at Kent State will be evaluated for admission based on their high school GPA for new students or transfer GPA for transfer students. Transfer students who have not attempted 12 credit hours of college-level coursework at Kent State and/or other institutions will be evaluated based on both their high school GPA and college GPA.

## Program Learning Outcomes

Graduates of this program will be able to:

- Apply theoretical, philosophical, and conceptual foundations of recreation and leisure to recreation program management.
- Execute group facilitation techniques with diverse clientele to achieve recreation program outcomes.
- Design, implement, and evaluate recreation programs to meet the needs of diverse clientele.

## Minor Requirements

Code	Title	Credit Hours
<b>Minor Requirements</b>		
RPTM 16000	FOUNDATIONS OF RECREATION AND LEISURE	3
RPTM 26030	LEADERSHIP IN RECREATION, PARKS AND TOURISM	3
RPTM 36040	INCLUSION OF PEOPLE WITH DISABILITIES IN LEISURE SERVICES (DIVD)	3
RPTM 36075	PROGRAM DESIGN AND EVALUATION	3
Recreation, Park and Tourism Management (RPTM) Electives		6
Minimum Total Credit Hours:		18

## Graduation Requirements

Minimum Minor GPA	Minimum Overall GPA
2.250	2.000

- Minimum 6 credit hours in the minor must be upper-division coursework (30000 and 40000 level).
- Minimum 6 credit hours in the minor must be outside of the course requirements for any major or other minor the student is pursuing.
- Minimum 50 percent of the total credit hours for the minor must be taken at Kent State (in residence).

## Recreation, Park and Tourism Management - B.S.

College of Education Health and Human Services  
School of Foundations, Leadership and Administration  
300 White Hall  
Kent Campus  
330-672-2012

[www.kent.edu/ehhs/fla](http://www.kent.edu/ehhs/fla)

## Description

The Bachelor of Science degree in Recreation, Park and Tourism Management provides students with an academic foundation and field experiences in preparation for the recreation, park and tourism professions. The program comprises three concentrations:

- The **Park Management** concentration focuses on providing opportunities for outdoor recreation and protecting the natural, cultural and historic resources on which those opportunities depend.
- The **Recreation Management** concentration focuses on providing opportunities for individuals and community health and wellbeing through recreation and parks in public, nonprofit and commercial settings.
- The **Tourism Management** concentration focuses on providing entrepreneurial services for tourism industries as well as sustainable tourism destination management.

## Fully Offered At:

- Kent Campus

## Accreditation

Council on Accreditation for Parks, Recreation, Tourism and Related Professions (COAPRT)

## Admission Requirements

The university affirmatively strives to provide educational opportunities and access to students with varied backgrounds, those with special talents and adult students who graduated from high school three or more years ago.

**Freshman Students on the Kent Campus:** The freshman admission policy on the Kent Campus is selective. Admission decisions are based upon the following: cumulative grade point average, ACT and/or SAT scores, strength of high school college preparatory curriculum and grade trends. The Admissions Office at the Kent Campus may defer the admission of students who do not meet admissions criteria but who demonstrate areas of promise for successful college study. Deferred applicants may begin their college coursework at one of seven regional campuses of Kent State University. For more information on admissions, including additional requirements for some academic programs, visit the admissions website for new freshmen.

**Freshman Students on the Regional Campuses:** Kent State campuses at Ashtabula, East Liverpool, Geauga, Salem, Stark, Trumbull and Tuscarawas, as well as the Regional Academic Center in Twinsburg, have open enrollment admission for students who hold a high school diploma, GED or equivalent.

**English Language Proficiency Requirements for International Students:** All international students must provide proof of English language proficiency (unless they meet specific exceptions) by earning a minimum 525 TOEFL score (71 on the Internet-based version), minimum 75 MELAB score, minimum 6.0 IELTS score or minimum 48 PTE score, or by completing the ESL level 112 Intensive Program. For more information on

international admission, visit the Office of Global Education's admission website.

**Transfer, Transitioning and Former Students:** For more information about admission criteria for transfer, transitioning and former students, please visit the admissions website.

**Current Kent State and Transfer Students:** Active Kent State students who wish to change their major must have attempted a minimum 12 credit hours at Kent State and earned a minimum 2.000 overall Kent State GPA to be admitted. Students who have not attempted 12 credit hours at Kent State will be evaluated for admission based on their high school GPA for new students or transfer GPA for transfer students. Transfer students who have not attempted 12 credit hours of college-level coursework at Kent State and/or other institutions will be evaluated based on both their high school GPA and college GPA.

## Program Learning Outcomes

Graduates of this program will be able to:

1. Demonstrate entry-level knowledge of the nature and scope of the profession.
2. Demonstrate entry-level knowledge of the foundation of the profession in history, science and philosophy.
3. Communicate effectively in written and oral forms.
4. Demonstrate the ability to design, implement, and evaluate recreation services for targeted human experiences.
5. Demonstrate the ability to design, implement and evaluate recreation services that embrace personal and cultural dimensions of diversity.
6. Demonstrate the skills necessary to successfully collaborate with others in varied work environments.
7. Demonstrate entry-level knowledge of operations and strategic management and administration in parks, recreation and tourism.
8. Demonstrate entry-level knowledge of the techniques and processes used by professionals in the parks, recreation and tourism industries.
9. Demonstrate the potential to succeed as professionals at supervisory or higher levels in park, recreation, tourism or related organizations.
10. Demonstrate the ability to apply evidence-based decision making, including determining information/data needs, locating and evaluating existing data sources, data gathering techniques, analysis and interpretation.

## University Requirements

All students in a bachelor's degree program at Kent State University must complete the following university requirements for graduation.

**NOTE:** University requirements may be fulfilled in this program by specific course requirements. Please see Program Requirements for details.

Destination Kent State: First Year Experience	1
Course is not required for students with 25 transfer credits, excluding College Credit Plus, or age 21+ at time of admission.	
Diversity Domestic/Global (DIVD/DIVG)	2 courses
Students must successfully complete one domestic and one global course, of which one must be from the Kent Core.	
Experiential Learning Requirement (ELR)	varies

Students must successfully complete one course or approved experience.	
Kent Core (see table below)	36-37
Writing-Intensive Course (WIC)	1 course
Students must earn a minimum C grade in the course.	
Upper-Division Requirement	39 (or 42)
Students must successfully complete 39 upper-division (numbered 30000 to 49999) credit hours to graduate. Students in a B.A. and/or B.S. degree in the College of Arts and Sciences must complete 42 upper-division credit hours.	
Total Credit Hour Requirement	120
Some bachelor's degrees require students to complete more than 120 credit hours.	

## Kent Core Requirements

Kent Core Composition (KCOMP)	6
Kent Core Mathematics and Critical Reasoning (KMCR)	3
Kent Core Humanities and Fine Arts (KHUM/KFA) (min one course each)	9
Kent Core Social Sciences (KSS) (must be from two disciplines)	6
Kent Core Basic Sciences (KBS/KLAB) (must include one laboratory)	6-7
Kent Core Additional (KADL)	6
<b>Total Credit Hours:</b>	<b>36-37</b>

## Program Requirements

### Major Requirements

Code	Title	Credit Hours
<b>Major Requirements (courses count in major GPA)</b>		
RPTM 16000	FOUNDATIONS OF RECREATION AND LEISURE	3
RPTM 16001	CAREER EXPLORATION IN RECREATION, PARK, AND TOURISM MANAGEMENT	1
RPTM 26030	LEADERSHIP IN RECREATION, PARKS AND TOURISM	3
RPTM 26071	MAINTENANCE AND OPERATION OF AREAS AND FACILITIES	3
RPTM 26081	PRINCIPLES OF OUTDOOR RECREATION	3
RPTM 36040	INCLUSION OF PEOPLE WITH DISABILITIES IN LEISURE SERVICES (DIVD)	3
RPTM 36060	ENTREPRENEURIAL APPROACHES TO LEISURE AND HOSPITALITY SERVICES	3
RPTM 36075	PROGRAM DESIGN AND EVALUATION	3
RPTM 36082	INTERPRETATION OF NATURAL AND CULTURAL RESOURCES	3
RPTM 36085	LEISURE AND CULTURE (DIVD)	3
RPTM 46030	DYNAMICS OF LEISURE BEHAVIOR (WIC) <sup>1</sup>	3
RPTM 46060	ADMINISTRATION OF LEISURE SERVICES	3
RPTM 46070	PARK PLANNING	3
RPTM 46091	SEMINAR FOR INTERNSHIP PREPARATION	1
RPTM 46092	INTERNSHIP IN RECREATION (ELR)	12
SPAD 46080	LEGAL ISSUES IN SPORT AND RECREATION	3
<b>Additional Requirements (courses do not count in major GPA)</b>		
ECON 22060	PRINCIPLES OF MICROECONOMICS (KSS)	3
ECON 22061	PRINCIPLES OF MACROECONOMICS (KSS)	3
PSYC 11762	GENERAL PSYCHOLOGY (DIVD) (KSS)	3
UC 10097	DESTINATION KENT STATE: FIRST YEAR EXPERIENCE	1



Kent Core Composition	6
Kent Core Mathematics and Critical Reasoning	3
Kent Core Humanities and Fine Arts (minimum one course from each)	9
Kent Core Additional	3
<b>Concentrations</b>	
Choose from the following:	36
Park Management	
Recreation Management	
Tourism Management	
Minimum Total Credit Hours:	120

<sup>1</sup> A minimum C grade must be earned to fulfill the writing-intensive requirement.

## Park Management Concentration Requirements

Code	Title	Credit Hours
<b>Concentration Requirements (courses count in major GPA)</b>		
BSCI 10110	BIOLOGICAL DIVERSITY (KBS) (KLAB)	4
BSCI 30360	GENERAL ECOLOGY	4
GEOG 49070	GEOGRAPHIC INFORMATION SCIENCE	4
HDFS 44032	NONPROFIT FUNDRAISING AND GRANTWRITING	3
RPTM 36083	ENVIRONMENTAL EDUCATION AND CONSERVATION	3
Recreation, Park and Tourism Management (RPTM) Elective <sup>1</sup>		6
Concentration Electives, choose from the following:		10
BSCI 30274	FORESTRY	
BSCI 30275	LOCAL FLORA (ELR)	
BSCI 30560	INVERTEBRATE ZOOLOGY	
BSCI 30580	ENTOMOLOGY	
BSCI 30582	ORNITHOLOGY	
BSCI 40360	ICHTHYOLOGY	
BSCI 40368	WETLAND ECOLOGY AND MANAGEMENT (ELR)	
BSCI 40374	CONSERVATION BIOLOGY (ELR)	
BSCI 40376	TROPICAL FIELD BIOLOGY AND CONSERVATION (ELR)	
BSCI 40525	WILDLIFE RESOURCES (ELR)	
BSCI 40556	VERTEBRATE ZOOLOGY	
GEOG 37010	GEOGRAPHY OF OHIO	
GEOG 41073	CONSERVATION OF NATURAL RESOURCES	
GEOG 41074	RESOURCE GEOGRAPHY	
GEOG 49080	ADVANCED GEOGRAPHIC INFORMATION SCIENCE	
GEOL 23063	EARTH MATERIALS I	
GEOL 32066	GEOMORPHOLOGY	
GEOL 41077	GEOLOGY OF THE NATIONAL PARKS	
<b>Additional Requirements (courses do not count in major GPA)</b>		
Kent Core Basic Sciences		2
Minimum Total Credit Hours:		36

<sup>1</sup> Student may select any RPTM course that is not already being applied toward the major.

## Recreation Management Concentration Requirements

Code	Title	Credit Hours
<b>Concentration Requirements (courses count in major GPA)</b>		
ACCT 23020	INTRODUCTION TO FINANCIAL ACCOUNTING	3
RPTM 26010	COMMUNITY DEVELOPMENT IN RECREATION	3
RPTM 36010	RECREATION, LEISURE AND AGING	3
HDFS 44032	NONPROFIT FUNDRAISING AND GRANTWRITING	3
COMM 20001	INTERPERSONAL COMMUNICATION	3
or COMM 35852	INTERCULTURAL COMMUNICATION (DIVG)	
CIS 24053	INTRODUCTION TO COMPUTER APPLICATIONS	3
Physical Activity, Wellness and Sport (PWS) Electives		3
Recreation, Park and Tourism Management (RPTM) Elective <sup>1</sup>		9
<b>Additional Requirements (courses do not count in major GPA)</b>		
Kent Core Basic Sciences (must include one laboratory)		6-7
Minimum Total Credit Hours:		36

<sup>1</sup> Student may select any RPTM course that is not already being applied toward the major. Student is encouraged to declare the Disability Studies and Community Inclusion minor.

## Tourism Management Concentration Requirements

Code	Title	Credit Hours
<b>Concentration Requirements (courses count in major GPA)</b>		
HM 13024	INTRODUCTION TO HOSPITALITY MANAGEMENT	3
RPTM 26060	INTRODUCTION TO GLOBAL TOURISM (DIVG)	3
RPTM 46000	TOURISM DEVELOPMENT AND RECREATIONAL TRAVEL	3
SPAD 45022	EVENT PLANNING AND PRODUCTION	3
Recreation, Park and Tourism Management (RPTM) Elective <sup>1</sup>		6
<b>Additional Requirements (courses do not count in major GPA)</b>		
ACCT 23020	INTRODUCTION TO FINANCIAL ACCOUNTING	3
FIN 36053	BUSINESS FINANCE	3
MGMT 24163	PRINCIPLES OF MANAGEMENT	3
MKTG 25010	PRINCIPLES OF MARKETING	3
Kent Core Basic Sciences (must include one laboratory)		6-7
Minimum Total Credit Hours:		36

<sup>1</sup> Student may select any RPTM course that is not already being applied toward the major.

## Graduation Requirements

Minimum Major GPA	Minimum Overall GPA
2.250	2.000

## Roadmaps

- Park Management Concentration
- Recreation Management Concentration
- Tourism Management Concentration

## PARK MANAGEMENT CONCENTRATION

This roadmap is a recommended semester-by-semester plan of study for this major. However, courses designated as critical (!) must be completed in the semester listed to ensure a timely graduation.

<b>Semester One</b>		<b>Credits</b>
!	RPTM 16000 FOUNDATIONS OF RECREATION AND LEISURE	3
	RPTM 16001 CAREER EXPLORATION IN RECREATION, PARK, AND TOURISM MANAGEMENT	1
	UC 10097 DESTINATION KENT STATE: FIRST YEAR EXPERIENCE	1
	Kent Core Requirement	3
	Kent Core Requirement	3
	Kent Core Requirement	3
	Credit Hours	14
<b>Semester Two</b>		
!	BSCI 10110 BIOLOGICAL DIVERSITY (KBS) (KLAB)	4
	PSYC 11762 GENERAL PSYCHOLOGY (DIVD) (KSS)	3
!	RPTM 26030 LEADERSHIP IN RECREATION, PARKS AND TOURISM	3
	Kent Core Requirement	3
	Kent Core Requirement	3
	Credit Hours	16
<b>Semester Three</b>		
	BSCI 30360 GENERAL ECOLOGY	4
!	ECON 22060 PRINCIPLES OF MICROECONOMICS (KSS)	3
	RPTM 26071 MAINTENANCE AND OPERATION OF AREAS AND FACILITIES	3
	Kent Core Requirement	3
	Kent Core Requirement	3
	Credit Hours	16
<b>Semester Four</b>		
	ECON 22061 PRINCIPLES OF MACROECONOMICS (KSS)	3
!	RPTM 26081 PRINCIPLES OF OUTDOOR RECREATION	3
!	RPTM 36060 ENTREPRENEURIAL APPROACHES TO LEISURE AND HOSPITALITY SERVICES	3
!	RPTM 36075 PROGRAM DESIGN AND EVALUATION	3
	Recreation, Park and Tourism Management (RPTM) Elective	3
	Credit Hours	15
<b>Semester Five</b>		
	HDFS 44032 NONPROFIT FUNDRAISING AND GRANTWRITING	3
!	RPTM 36040 INCLUSION OF PEOPLE WITH DISABILITIES IN LEISURE SERVICES (DIVD)	3
!	RPTM 36083 ENVIRONMENTAL EDUCATION AND CONSERVATION	3
	RPTM 36085 LEISURE AND CULTURE (DIVD)	3
	Concentration Elective	3
	Kent Core Requirement	2
	Credit Hours	17
<b>Semester Six</b>		
!	RPTM 36082 INTERPRETATION OF NATURAL AND CULTURAL RESOURCES	3
!	RPTM 46030 DYNAMICS OF LEISURE BEHAVIOR (WIC)	3
!	RPTM 46060 ADMINISTRATION OF LEISURE SERVICES	3
!	RPTM 46091 SEMINAR FOR INTERNSHIP PREPARATION	1
	Concentration Elective	4
	Credit Hours	14

### Semester Seven

!	RPTM 46070 PARK PLANNING	3
!	SPAD 46080 LEGAL ISSUES IN SPORT AND RECREATION	3
	GEOG 49070 GEOGRAPHIC INFORMATION SCIENCE	4
	Recreation, Park and Tourism Management (RPTM) Elective	3
	Concentration Elective	3
	Credit Hours	16

### Semester Eight

!	RPTM 46092 INTERNSHIP IN RECREATION (ELR)	12
	Credit Hours	12

Minimum Total Credit Hours: 120

## Recreation Management Concentration

This roadmap is a recommended semester-by-semester plan of study for this major. However, courses designated as critical (!) must be completed in the semester listed to ensure a timely graduation.

Semester One		Credits
!	RPTM 16000 FOUNDATIONS OF RECREATION AND LEISURE	3
	RPTM 16001 CAREER EXPLORATION IN RECREATION, PARK, AND TOURISM MANAGEMENT	1
	UC 10097 DESTINATION KENT STATE: FIRST YEAR EXPERIENCE	1
	Physical Activity, Wellness and Sport (PWS) Elective	1
	Kent Core Requirement	3
	Kent Core Requirement	3
	Kent Core Requirement	3
Credit Hours		15
Semester Two		
	PSYC 11762 GENERAL PSYCHOLOGY (DIVD) (KSS)	3
!	RPTM 26030 LEADERSHIP IN RECREATION, PARKS AND TOURISM	3
	RPTM 26081 PRINCIPLES OF OUTDOOR RECREATION	3
	Kent Core Requirement	3
	Kent Core Requirement	3
Credit Hours		15
Semester Three		
	ACCT 23020 INTRODUCTION TO FINANCIAL ACCOUNTING	3
!	ECON 22060 PRINCIPLES OF MICROECONOMICS (KSS)	3
!	RPTM 26071 MAINTENANCE AND OPERATION OF AREAS AND FACILITIES	3
	Physical Activity, Wellness and Sport (PWS) Elective	1
	Kent Core Requirement	3
	Kent Core Requirement	3
Credit Hours		16
Semester Four		
	ECON 22061 PRINCIPLES OF MACROECONOMICS (KSS)	3
	RPTM 26010 COMMUNITY DEVELOPMENT IN RECREATION	3
!	RPTM 36010 RECREATION, LEISURE AND AGING	3
	RPTM 36060 ENTREPRENEURIAL APPROACHES TO LEISURE AND HOSPITALITY SERVICES	3
	Physical Activity, Wellness and Sport (PWS) Elective	1
	Kent Core Requirement	3
Credit Hours		16
Semester Five		
!	RPTM 36040 INCLUSION OF PEOPLE WITH DISABILITIES IN LEISURE SERVICES (DIVD)	3
!	RPTM 36075 PROGRAM DESIGN AND EVALUATION	3
!	RPTM 36085 LEISURE AND CULTURE (DIVD)	3
	COMM 20001 INTERPERSONAL COMMUNICATION or COMM 35852 or INTERCULTURAL COMMUNICATION (DIVG)	3
	Kent Core Requirement	3
Credit Hours		15
Semester Six		
	CIS 24053 INTRODUCTION TO COMPUTER APPLICATIONS	3
!	RPTM 46030 DYNAMICS OF LEISURE BEHAVIOR (WIC)	3
!	RPTM 46060 ADMINISTRATION OF LEISURE SERVICES	3
!	RPTM 46091 SEMINAR FOR INTERNSHIP PREPARATION	1

RPTM 36082	INTERPRETATION OF NATURAL AND CULTURAL RESOURCES	3
Recreation, Park and Tourism Management (RPTM) Elective		3
Credit Hours		16
Semester Seven		
HDFS 44032	NONPROFIT FUNDRAISING AND GRANTWRITING	3
!	SPAD 46080 LEGAL ISSUES IN SPORT AND RECREATION	3
!	RPTM 46070 PARK PLANNING	3
Recreation, Park and Tourism Management (RPTM) Elective		6
Credit Hours		15
Semester Eight		
!	RPTM 46092 INTERNSHIP IN RECREATION (ELR)	12
Credit Hours		12
Minimum Total Credit Hours:		120

## Tourism Management Concentration

This roadmap is a recommended semester-by-semester plan of study for this major. However, courses designated as critical (!) must be completed in the semester listed to ensure a timely graduation.

Semester One		Credits
!	RPTM 16000 FOUNDATIONS OF RECREATION AND LEISURE	3
	RPTM 16001 CAREER EXPLORATION IN RECREATION, PARK, AND TOURISM MANAGEMENT	1
	UC 10097 DESTINATION KENT STATE: FIRST YEAR EXPERIENCE	1
	Kent Core Requirement	3
	Kent Core Requirement	3
	Kent Core Requirement	3
	Kent Core Requirement	3
Credit Hours		17
Semester Two		
	PSYC 11762 GENERAL PSYCHOLOGY (DIVD) (KSS)	3
!	RPTM 26030 LEADERSHIP IN RECREATION, PARKS AND TOURISM	3
	Kent Core Requirement	3
	Kent Core Requirement	3
	Kent Core Requirement	3
Credit Hours		15
Semester Three		
!	ECON 22060 PRINCIPLES OF MICROECONOMICS (KSS)	3
	HM 13024 INTRODUCTION TO HOSPITALITY MANAGEMENT	3
!	RPTM 26060 INTRODUCTION TO GLOBAL TOURISM (DIVG)	3
!	RPTM 26071 MAINTENANCE AND OPERATION OF AREAS AND FACILITIES	3
	Recreation, Park and Tourism Management (RPTM) Elective	3
Credit Hours		15
Semester Four		
	ECON 22061 PRINCIPLES OF MACROECONOMICS (KSS)	3
!	RPTM 26081 PRINCIPLES OF OUTDOOR RECREATION	3
!	RPTM 36060 ENTREPRENEURIAL APPROACHES TO LEISURE AND HOSPITALITY SERVICES	3
	Kent Core Requirement	3
	Kent Core Requirement	3
Credit Hours		15
Semester Five		
	ACCT 23020 INTRODUCTION TO FINANCIAL ACCOUNTING	3
	MKTG 25010 PRINCIPLES OF MARKETING	3
!	RPTM 36040 INCLUSION OF PEOPLE WITH DISABILITIES IN LEISURE SERVICES (DIVD)	3
!	RPTM 36075 PROGRAM DESIGN AND EVALUATION	3
	RPTM 36085 LEISURE AND CULTURE (DIVD)	3
Credit Hours		15
Semester Six		
	MGMT 24163 PRINCIPLES OF MANAGEMENT	3
!	RPTM 46030 DYNAMICS OF LEISURE BEHAVIOR (WIC)	3
!	RPTM 46060 ADMINISTRATION OF LEISURE SERVICES	3
!	RPTM 46091 SEMINAR FOR INTERNSHIP PREPARATION	1
!	SPAD 46080 LEGAL ISSUES IN SPORT AND RECREATION	3
	FIN 36053 BUSINESS FINANCE	3
Credit Hours		16

### Semester Seven

	RPTM 36082 INTERPRETATION OF NATURAL AND CULTURAL RESOURCES	3
!	RPTM 46000 TOURISM DEVELOPMENT AND RECREATIONAL TRAVEL	3
!	RPTM 46070 PARK PLANNING	3
	SPAD 45022 EVENT PLANNING AND PRODUCTION	3
Recreation, Park and Tourism Management (RPTM) Elective		3
Credit Hours		15

### Semester Eight

!	RPTM 46092 INTERNSHIP IN RECREATION (ELR)	12
Credit Hours		12
Minimum Total Credit Hours:		120

## Sport Administration - B.S.

### College of Education Health and Human Services

School of Foundations, Leadership and Administration

300 White Hall

Kent Campus

330-672-2012

[www.kent.edu/ehhs/fla](http://www.kent.edu/ehhs/fla)

## Description

The Bachelor of Science degree in Sport Administration prepares students for careers in the sport industry through a balanced academic program and numerous practical experiences. Students complete a core group of courses developed to exceed accreditation guidelines, and all students are required to complete one of the following minors:

- Business
- Data Analytics
- Finance
- International Business for Non-Business Majors
- Management for Non-Business Majors
- Marketing

The curricular balance of sport, business and sociological courses along with three required practical experiences make the program of study one that is cutting edge compared to other programs within the state of Ohio and across the country.

### Fully Offered At:

- Kent Campus

## Admission Requirements

The university affirmatively strives to provide educational opportunities and access to students with varied backgrounds, those with special talents and adult students who graduated from high school three or more years ago.

**Freshman Students on the Kent Campus:** The freshman admission policy on the Kent Campus is selective. Admission decisions are based upon the following: cumulative grade point average, ACT and/or SAT scores, strength of high school college preparatory curriculum and grade trends. The Admissions Office at the Kent Campus may defer the admission of students who do not meet admissions criteria but who demonstrate areas of promise for successful college study. Deferred

applicants may begin their college coursework at one of seven regional campuses of Kent State University. For more information on admissions, including additional requirements for some academic programs, visit the admissions website for new freshmen.

**Freshman Students on the Regional Campuses:** Kent State campuses at Ashtabula, East Liverpool, Geauga, Salem, Stark, Trumbull and Tuscarawas, as well as the Regional Academic Center in Twinsburg, have open enrollment admission for students who hold a high school diploma, GED or equivalent.

**English Language Proficiency Requirements for International Students:** All international students must provide proof of English language proficiency (unless they meet specific exceptions) by earning a minimum 525 TOEFL score (71 on the Internet-based version), minimum 75 MELAB score, minimum 6.0 IELTS score or minimum 48 PTE score, or by completing the ESL level 112 Intensive Program. For more information on international admission, visit the Office of Global Education's admission website.

**Transfer, Transitioning and Former Students:** For more information about admission criteria for transfer, transitioning and former students, please visit the admissions website.

**Current Kent State and Transfer Students:** Active Kent State students who wish to change their major must have attempted a minimum 12 credit hours at Kent State and earned a minimum 2.500 overall Kent State GPA to be admitted. Students who have not attempted 12 credit hours at Kent State will be evaluated for admission based on their high school GPA for new students or transfer GPA for transfer students. Transfer students who have not attempted 12 credit hours of college-level coursework at Kent State and/or other institutions will be evaluated based on both their high school GPA and college GPA.

## Program Learning Outcomes

Graduates of this program will be able to:

1. Demonstrate comprehensive knowledge in the areas of promotion and marketing as related to sport.
2. Effectively and safely implement sporting events and fundraising events.
3. Demonstrate an understanding of the policies and organizations that govern sport.
4. Demonstrate knowledge of basic legal concepts and theory as it applies to sport.
5. Demonstrate financial knowledge of accounting, economics and finance as it applies to sport.
6. Demonstrate an understanding of ethics in sport management.
7. Demonstrate an understanding of management and organizational skills in sport.
8. Demonstrate an understanding of behavioral dimensions in sport.

## University Requirements

All students in a bachelor's degree program at Kent State University must complete the following university requirements for graduation.

**NOTE:** University requirements may be fulfilled in this program by specific course requirements. Please see Program Requirements for details.

Destination Kent State: First Year Experience	1
Course is not required for students with 25 transfer credits, excluding College Credit Plus, or age 21+ at time of admission.	
Diversity Domestic/Global (DIVD/DIVG)	2 courses
Students must successfully complete one domestic and one global course, of which one must be from the Kent Core.	
Experiential Learning Requirement (ELR)	varies
Students must successfully complete one course or approved experience.	
Kent Core (see table below)	36-37
Writing-Intensive Course (WIC)	1 course
Students must earn a minimum C grade in the course.	
Upper-Division Requirement	39 (or 42)
Students must successfully complete 39 upper-division (numbered 30000 to 49999) credit hours to graduate. Students in a B.A. and/or B.S. degree in the College of Arts and Sciences must complete 42 upper-division credit hours.	
Total Credit Hour Requirement	120
Some bachelor's degrees require students to complete more than 120 credit hours.	

## Kent Core Requirements

Kent Core Composition (KCMP)	6
Kent Core Mathematics and Critical Reasoning (KMCR)	3
Kent Core Humanities and Fine Arts (KHUM/KFA) (min one course each)	9
Kent Core Social Sciences (KSS) (must be from two disciplines)	6
Kent Core Basic Sciences (KBS/KLAB) (must include one laboratory)	6-7
Kent Core Additional (KADL)	6
<b>Total Credit Hours:</b>	<b>36-37</b>

## Program Requirements

### Major Requirements

Code	Title	Credit Hours
<b>Major Requirements (courses count in major GPA)</b>		
BMRT 21004	BUSINESS ANALYTICS I	3
or MATH 10041	INTRODUCTORY STATISTICS (KMCR)	
or MGMT 24056	BUSINESS ANALYTICS I	
SPAD 15000	INTRODUCTION TO SPORT ADMINISTRATION	3
SPAD 25000	SPORT IN SOCIETY (DIVD)	3
SPAD 25092	PRACTICUM I IN SPORT ADMINISTRATION (ELR) <sup>1</sup>	1
SPAD 35021	GOVERNANCE IN SPORT	3
SPAD 35025	FACILITY MANAGEMENT	3
SPAD 35065	HISTORY AND PHILOSOPHY OF SPORT AND PHYSICAL ACTIVITY (WIC) <sup>2</sup>	3
or SPAD 45029	HISTORY AND CURRENT ISSUES IN COLLEGIATE ATHLETICS	
SPAD 35092	PRACTICUM II IN SPORT ADMINISTRATION (ELR) <sup>1</sup>	1
SPAD 45021	ORGANIZATION AND ADMINISTRATION OF ATHLETICS	3
SPAD 45022	EVENT PLANNING AND PRODUCTION	3
SPAD 45023	SPORT MARKETING	3
SPAD 45024	SPORT IN GLOBAL PERSPECTIVE	3
SPAD 45026	SPORT AND THE MEDIA	3



SPAD 45027	PUBLIC RELATIONS AND PROMOTION IN SPORT	3
SPAD 45030	SPORT ENTERPRISE (WIC) <sup>2</sup>	3
SPAD 45032	SALES MANAGEMENT IN SPORT AND ENTERTAINMENT	3
SPAD 45091	SEMINAR FOR INTERNSHIP PREPARATION	1
SPAD 45092	INTERNSHIP IN SPORT ADMINISTRATION (ELR) <sup>1</sup>	12
SPAD 46080	LEGAL ISSUES IN SPORT AND RECREATION	3
<b>Additional Requirements (courses do not count in major GPA)</b>		
ACCT 23020	INTRODUCTION TO FINANCIAL ACCOUNTING	3
ARCH 10001	UNDERSTANDING ARCHITECTURE (KFA)	3
COMM 15000	INTRODUCTION TO HUMAN COMMUNICATION (KADL)	3
ECON 22060	PRINCIPLES OF MICROECONOMICS (KSS)	3
ECON 22061	PRINCIPLES OF MACROECONOMICS (KSS)	3
MKTG 25010	PRINCIPLES OF MARKETING	3
PHIL 21001	INTRODUCTION TO ETHICS (DIVG) (KHUM)	3
PSYC 11762	GENERAL PSYCHOLOGY (DIVD) (KSS)	3
or SOC 12050	INTRODUCTION TO SOCIOLOGY (DIVD) (KSS)	
UC 10097	DESTINATION KENT STATE: FIRST YEAR EXPERIENCE	1
Kent Core Composition		6
Kent Core Mathematics and Critical Reasoning <sup>3</sup>		3
Kent Core Humanities or Fine Arts (minimum one course from each)		3
Kent Core Basic Sciences (must include one laboratory)		6-7
General Electives (total credit hours depends on earning 120 credit hours, including 39 upper-division credit hours)		17
Minimum Total Credit Hours:		120

<sup>1</sup> State and Federal background checks may be required for practicum and internship experiences.

<sup>2</sup> A minimum C grade must be earned to fulfill the writing-intensive requirement.

<sup>3</sup> Students should review the mathematics requirement for their selected minor prior to registering for their Kent Core Mathematics and Critical Reasoning. If MATH 10041 has been taken, additional general electives may be required to maintain the 120 minimum total credit hours for graduation.

## Progression Requirements

Student must maintain a minimum 2.500 overall GPA and a minimum 2.500 major and minor GPA every semester, until graduation.

Students who do not maintain the minimum required GPA <sup>1</sup> will receive a warning and will be required to meet with their faculty and professional advisor to develop a plan of continuation. The plan will include all actions necessary to continue in the current program, the opportunity to declare a different program, a timeline of when actions should occur, and next steps if actions are not followed. Please refer to the Not Permitted to Continue policy in the Academic Policies section in the University Catalog.

<sup>1</sup> Undergraduate students who have not completed a minimum of 12 Kent State University credit hours will be evaluated for advanced study and professional phase based on their high school GPA for new freshmen or transfer GPA for transfer students.

## Graduation Requirements

Minimum Major GPA	Minimum Overall GPA
2.500	2.500

- Successful completion of one of the following minors is required for graduation: Business, Data Analytics, Finance, International Business for Non-Business Majors, Management for Non-Business Majors and Marketing. A minimum 6 credit hours in the minor must be outside of the course requirements for any major or other minor the student is pursuing. Students should consult their advisor when choosing electives to fulfill minor requirements.

## Roadmap

This roadmap is a recommended semester-by-semester plan of study for this major. However, courses designated as critical (!) must be completed in the semester listed to ensure a timely graduation.

Semester One		Credits
SPAD 15000	INTRODUCTION TO SPORT ADMINISTRATION	3
UC 10097	DESTINATION KENT STATE: FIRST YEAR EXPERIENCE	1
Kent Core Requirement		3
Kent Core Requirement		3
Kent Core Requirement		3
General Elective		3
Credit Hours		16
Semester Two		
ARCH 10001	UNDERSTANDING ARCHITECTURE (KFA)	3
COMM 15000	INTRODUCTION TO HUMAN COMMUNICATION (KADL)	3
PSYC 11762	GENERAL PSYCHOLOGY (DIVD) (KSS)	3
or	or INTRODUCTION TO SOCIOLOGY (DIVD)	
SOC 12050	(KSS)	3
Kent Core Requirement		3
General Elective		3
Credit Hours		15
Semester Three		
! ECON 22060	PRINCIPLES OF MICROECONOMICS (KSS)	3
PHIL 21001	INTRODUCTION TO ETHICS (DIVG) (KHUM)	3
SPAD 25000	SPORT IN SOCIETY (DIVD)	3
! SPAD 25092	PRACTICUM I IN SPORT ADMINISTRATION (ELR)	1
Kent Core Requirement		3
General Elective		3
Credit Hours		16
Semester Four		
ACCT 23020	INTRODUCTION TO FINANCIAL ACCOUNTING	3
ECON 22061	PRINCIPLES OF MACROECONOMICS (KSS)	3
! MKTG 25010	PRINCIPLES OF MARKETING	3
SPAD 35065	HISTORY AND PHILOSOPHY OF SPORT AND PHYSICAL ACTIVITY (WIC)	3
or	or HISTORY AND CURRENT ISSUES IN COLLEGIATE ATHLETICS	
SPAD 45029		3
Kent Core Requirement		3
Credit Hours		15
Semester Five		
! BMRT 21004	BUSINESS ANALYTICS I	3
or	or INTRODUCTORY STATISTICS (KMCR)	
MATH 10041	or BUSINESS ANALYTICS I	
or		
MGMT 24056		3
! SPAD 35021	GOVERNANCE IN SPORT	3
SPAD 35025	FACILITY MANAGEMENT	3
SPAD 45026	SPORT AND THE MEDIA	3
General Elective		3
Credit Hours		15
Semester Six		
! SPAD 35092	PRACTICUM II IN SPORT ADMINISTRATION (ELR)	1
SPAD 45021	ORGANIZATION AND ADMINISTRATION OF ATHLETICS	3
SPAD 45023	SPORT MARKETING	3

SPAD 45032	SALES MANAGEMENT IN SPORT AND ENTERTAINMENT	3
SPAD 46080	LEGAL ISSUES IN SPORT AND RECREATION	3
General Elective		3
Credit Hours		16
Semester Seven		
SPAD 45022	EVENT PLANNING AND PRODUCTION	3
SPAD 45024	SPORT IN GLOBAL PERSPECTIVE	3
SPAD 45027	PUBLIC RELATIONS AND PROMOTION IN SPORT	3
SPAD 45030	SPORT ENTERPRISE (WIC)	3
! SPAD 45091	SEMINAR FOR INTERNSHIP PREPARATION	1
General Elective		2
Credit Hours		15
Semester Eight		
! SPAD 45092	INTERNSHIP IN SPORT ADMINISTRATION (ELR)	12
Credit Hours		12
Minimum Total Credit Hours:		120

## Sport Administration - M.A.

**College of Education Health and Human Services**  
 School of Foundations, Leadership and Administration  
 300 White Hall  
 Kent Campus  
 330-672-2012  
[www.kent.edu/ehhs/fla](http://www.kent.edu/ehhs/fla)

*Program is pending approval from the Ohio Department of Higher Education.*

### Description

The Master of Arts degree in Sport Administration provides students a knowledge base in management theory and application in sport settings. The program culminates with an internship, research project or thesis.

### Fully Offered At:

- Kent Campus

### Admission Requirements

- Bachelor's degree from an accredited college or university for unconditional admission
- Minimum 3.000 undergraduate GPA on a 4.000 point scale for unconditional admission
- Official transcript(s)
- GRE, MAT, GMAT or approved equivalent standardized test if GPA is below 3.000
- Goal statement
- Two letters of recommendation
- English language proficiency - all international students must provide proof of English language proficiency (unless they meet specific exceptions) by earning one of the following:
  - Minimum 550 TOEFL PBT score (paper-based version)
  - Minimum 79 TOEFL IBT score (Internet-based version)
  - Minimum 77 MELAB score
  - Minimum 6.5 IELTS score
  - Minimum 58 PTE score
  - Minimum 110 Duolingo English Test score

For more information about graduate admissions, please visit the Graduate Studies admission website. For more information on international admission, visit the Office of Global Education's admission website.

## Program Learning Outcomes

Graduates of this program will be able to:

1. Demonstrate the knowledge and experience necessary to become successful as a professional in the sport industry.
2. Apply theoretical and practical knowledge of the industry in a professional career.
3. Engage and expand the number of international promotional, scholarly and educational research/presentation opportunities in the profession.

## Program Requirements

### Major Requirements

Code	Title	Credit Hours
<b>Major Requirements</b>		
EVAL 65510	STATISTICS I FOR EDUCATIONAL SERVICES	3
or EVAL 65511	RESEARCH IN EDUCATIONAL SERVICES	
SPAD 65008	SOCIOLOGY OF SPORT AND PHYSICAL ACTIVITY	3
SPAD 63018	ETHICS IN SPORT	3
SPAD 63091	RESEARCH SEMINAR	1
SPAD 65033	SPORT LAW	3
SPAD 65039	FINANCIAL ASPECTS OF SPORT	3
SPAD 65042	LEADERSHIP OF SPORT	3
SPAD 65045	SPORT MARKETING	3
Major Electives, choose from the following: <sup>1</sup>		6-9
CI 55015	PSYCHOLOGY OF COACHING	
EVAL 68713	MULTIVARIATE ANALYSIS IN EDUCATIONAL RESEARCH <sup>2</sup>	
EVAL 68714	FACTOR ANALYSIS IN EDUCATIONAL RESEARCH <sup>2</sup>	
HIED 66657	LEADERSHIP IN EDUCATION ORGANIZATIONS	
RPTM 56000	TOURISM DEVELOPMENT AND RECREATIONAL TRAVEL	
RPTM 56060	ADMINISTRATION OF LEISURE SERVICES	
RPTM 56070	PARK PLANNING	
SPAD 55022	EVENT PLANNING AND PRODUCTION	
SPAD 55029	HISTORY AND CURRENT ISSUES IN COLLEGIATE ATHLETICS	
SPAD 55031	SPORT TOURISM	
SPAD 55032	SALES MANAGEMENT IN SPORT AND ENTERTAINMENT	
SPAD 55033	CHANGE YOUR MIND, GAME AND LIFE	
SPAD 56028	SPORT IN FILM	
SPAD 56030	DYNAMICS OF LEISURE BEHAVIOR	
SPAD 63195	SPECIAL TOPICS IN SPORT ADMINISTRATION	
SPAD 65006	CONTEMPORARY ISSUES IN SPORT MANAGEMENT	
SPAD 65008	SOCIOLOGY OF SPORT AND PHYSICAL ACTIVITY	
SPAD 65021	ORGANIZATION AND MANAGEMENT OF SPORTS PROGRAMS	

SPAD 65034	CONTEMPORARY SPORT LAW	
SPAD 65036	SPORT IN HIGHER EDUCATION	
SPAD 65038	SPORT PROMOTION AND FUNDRAISING	
SPAD 65046	FACILITY MANAGEMENT AND OPERATIONS	
SPAD 65048	INTRAMURAL AND CLUB SPORT ADMINISTRATION	
Thesis or Non-Thesis Option, choose from the following:		3-6
SPAD 63098	RESEARCH	
SPAD 63199	THESIS I	
SPAD 65092	INTERNSHIP IN SPORT ADMINISTRATION <sup>3</sup>	
Minimum Total Credit Hours:		34

<sup>1</sup> Students who select the non-thesis option must select 9 credit hours of concentration electives to meet the overall minimum credit hours for the degree.

<sup>2</sup> EVAL 68713 and EVAL 68714 are concentration electives for students choosing the thesis option only.

<sup>3</sup> Students choosing SPAD 65092 may be required to complete state or Federal background checks for their practicum or internship experience.

## Sport Administration - Minor

### College of Education Health and Human Services

School of Foundations, Leadership and Administration

300 White Hall

Kent Campus

330-672-2012

[www.kent.edu/ehhs/fla](http://www.kent.edu/ehhs/fla)

## Description

The Sport Administration minor is for students who want an introduction to working in the sport industry.

### Fully Offered At:

- Kent Campus

## Admission Requirements

Admission to a minor is open to students declared in a bachelor's degree, the A.A.B. or A.A.S. degree or the A.T.S. degree (not Individualized Program major). Students declared only in the A.A. or A.S. degree or the A.T.S. degree in Individualized Program may not declare a minor. Students may not pursue a minor and a major in the same discipline.

To declare this minor, students must have attempted a minimum 12 credit hours at Kent State and earned a minimum 2.000 overall Kent State GPA. Students who have not attempted 12 credit hours at Kent State will be evaluated for admission based on their high school GPA for new students or transfer GPA for transfer students. Transfer students who have not attempted 12 credit hours of college-level coursework at Kent State and/or other institutions will be evaluated based on both their high school GPA and college GPA.

## Minor Requirements

Code	Title	Credit Hours
<b>Minor Requirements</b>		
SPAD 25000	SPORT IN SOCIETY (DIVD)	3

SPAD 35021	GOVERNANCE IN SPORT	3
SPAD 35065	HISTORY AND PHILOSOPHY OF SPORT AND PHYSICAL ACTIVITY (WIC)	3
SPAD 45022	EVENT PLANNING AND PRODUCTION	3
SPAD 45023	SPORT MARKETING	3
SPAD 45024	SPORT IN GLOBAL PERSPECTIVE	3
or SPAD 45026	SPORT AND THE MEDIA	
SPAD 46080	LEGAL ISSUES IN SPORT AND RECREATION	3
Minimum Total Credit Hours:		21

## Graduation Requirements

Minimum Minor GPA	Minimum Overall GPA
2.250	2.000

- Minimum 6 credit hours in the minor must be upper-division coursework (30000 and 40000 level).
- Minimum 6 credit hours in the minor must be outside of the course requirements for any major or other minor the student is pursuing.
- Minimum 50 percent of the total credit hours for the minor must be taken at Kent State (in residence).

## Tourism Management - Minor

### College of Education Health and Human Services

School of Foundations, Leadership and Administration  
300 White Hall  
Kent Campus  
330-672-2012  
[www.kent.edu/ehhs/fla](http://www.kent.edu/ehhs/fla)

## Description

The Tourism Management minor prepares students to specialize in tourism service management and sustainable destination development relative to their careers. The minor provides students with the necessary skills for entrepreneurial success within the tourism industry. Exciting career opportunities exist in resorts, theme parks, special events, convention and visitors bureaus, regional planning, urban renewal, ecotourism, outdoor adventures, sport tourism and cultural tourism. The program provides students with knowledge, skills and abilities through coursework and hands-on, field-based experiences.

### Fully Offered At:

- Kent Campus

## Admission Requirements

Admission to a minor is open to students declared in a bachelor's degree, the A.A.B. or A.A.S. degree or the A.T.S. degree (not Individualized Program major). Students declared only in the A.A. or A.S. degree or the A.T.S. degree in Individualized Program may not declare a minor. Students may not pursue a minor and a major in the same discipline.

Students declared in the Recreation, Park and Tourism Management major may not declare the Tourism Management minor.

To declare this minor, students must have attempted a minimum 12 credit hours at Kent State and earned a minimum 2.250 overall Kent State GPA. Students who have not attempted 12 credit hours at Kent State will be evaluated for admission based on their high school GPA for new

students or transfer GPA for transfer students. Transfer students who have not attempted 12 credit hours of college-level coursework at Kent State and/or other institutions will be evaluated based on both their high school GPA and college GPA.

## Minor Requirements

Code	Title	Credit Hours
<b>Minor Requirements</b>		
RPTM 26060	INTRODUCTION TO GLOBAL TOURISM (DIVG)	3
RPTM 26081	PRINCIPLES OF OUTDOOR RECREATION	3
RPTM 36040	INCLUSION OF PEOPLE WITH DISABILITIES IN LEISURE SERVICES (DIVD)	3
RPTM 36060	ENTREPRENEURIAL APPROACHES TO LEISURE AND HOSPITALITY SERVICES	3
RPTM 46000	TOURISM DEVELOPMENT AND RECREATIONAL TRAVEL	3
SPAD 45022	EVENT PLANNING AND PRODUCTION	3
Minimum Total Credit Hours:		18

## Graduation Requirements

Minimum Minor GPA	Minimum Overall GPA
2.250	2.000

- Minimum 6 credit hours in the minor must be upper-division coursework (30000 and 40000 level).
- Minimum 6 credit hours in the minor must be outside of the course requirements for any major or other minor the student is pursuing.
- Minimum 50 percent of the total credit hours for the minor must be taken at Kent State (in residence).

## School of Health Sciences

### College of Education Health and Human Services

School of Health Sciences  
100 Nixson Hall  
Kent Campus  
330-672-2197  
[www.kent.edu/ehhs/hs](http://www.kent.edu/ehhs/hs)

## Undergraduate Programs

- Athletic Training - B.S.
- Community Health Education - B.S.
- Exercise Science - B.S.
- Integrated Health Studies - B.S.
- Nutrition - B.S.
- School Health Education - B.S.E.
- Speech Pathology and Audiology - B.S.
- Sports Medicine - B.S.

## Minors

- Community Health Education
- Human Sexuality
- Sports Medicine

## Graduate Programs

- Athletic Training - M.S.
- Audiology - Au.D.
- Audiology - M.A.
- Audiology - Ph.D.
- Exercise Physiology - M.S.
- Exercise Physiology - Ph.D.
- Health Education and Promotion - M.Ed.
- Health Education and Promotion - Ph.D.
- Nutrition - M.S.
- Speech Language Pathology - M.A.
- Speech Language Pathology - Ph.D.

## Certificates

### Undergraduate Certificates

- Alcohol, Tobacco and Other Drug Prevention

## Licensure/Endorsement Programs - Non-Degree

### Graduate

- School Health Education (P-12) Additional Licensure Preparation

## School of Health Sciences Faculty

- Arnold, Hayley S. (2010), Associate Professor, Ph.D., Vanderbilt University, 2007
- Audet, Lisa R. (1995), Assistant Professor, Ph.D., Kent State University, 2000
- Axiotis, Irene R. (1985), Professor, Ph.D., Kent State University, 1996
- Backus, Angela S. (2003), Associate Professor, Ph.D., Kent State University, 2010
- Baker, Emily A. (2012), Lecturer, M.S., Case Western Reserve, 2001
- Barikoo, Ali (2017), Assistant Professor, Ph.D., University of Florida, 2017
- Barkley, Jacob E. (2006), Professor, Ph.D., University at Buffalo, SUNY, 2007
- Berk, Lynn V. (2008), Associate Lecturer, M.A., Cleveland State University, 1981
- Bernert, Donna J. (2007), Assistant Professor, Ph.D., Southern Illinois University, 2005
- Blakely-Adams, Carmen M. (2007), Associate Lecturer, M.Ed., Cleveland State University, 2004
- Burke, Amanda J. (2000), Assistant Professor, Ph.D., Kent State University, 2015
- Burzminski, Nancy H. (2001), Associate Professor, Ph.D., Saint Mary's University, 2003
- Caine-Bish, Natalie L. (1997), Associate Professor, Ph.D., Kent State University, 2002
- Ding, Kele (2005), Associate Professor, Ph.D., Indiana University-Bloomington, 2000
- Durant, Kathleen M. (2019), Assistant Professor
- Evans, Na'Tasha (2017), Assistant Professor, Ph.D., University of Toledo, 2016
- Falcone, Tanya R. (2007), Associate Lecturer, M.S., Kent State University, 2009
- Forbes, Myrna A. (1998), Associate Lecturer, Au.D., University of Florida, 2005
- Glickman, Ellen L. (1995), Professor & School Director, Ph.D., University of Pittsburgh, 1988
- Gordon, Karen L. (1988), Associate Professor, Ph.D., University of Illinois, Urbana-Champaign, 1988
- Grogan-Johnson, Susan L. (1988), Associate Professor, Ph.D., Kent State University, 1993
- Ha, Eun-Jeong (2004), Associate Professor, Ph.D., The Ohio State University, 1999
- Hale, Catherine C. (2000), Associate Lecturer, M.S., Indiana University, Bloomington, 1995
- Harnar, Hannah M. (2011), Assistant Professor, M.S., Kent State University, 2013
- Hawks, John W. (1991), Associate Professor, Ph.D., Washington University in St. Louis, 1990
- Huston, Jeffery L. (2007), Professor, Ed.D., Capella University, 2017
- Huyck, Julia J. (2013), Assistant Professor, Ph.D., Northwestern University, 2010
- Jajtner, Adam (2016), Assistant Professor, Ph.D., University of Central Florida, 2016
- Jonas, Jay C. (2006), Professor, M.Ed., University of Virginia, 1998
- Kerr, Dianne L. (1988), Professor, Ph.D., The Ohio State University, 1992
- Kingsley, James D. (2013), Associate Professor, Ph.D., Florida State University, 2009
- Kolonich, Erin M. (2017), Lecturer
- Krumm, Mark P. (2005), Associate Professor, Ph.D., Wichita State University, 1990
- Malone, Megan (2012), Associate Lecturer, M.A., Case Western Reserve University, 2000
- Matthews, Jamie C. (2014), Lecturer, M.S., Kent State University, 2004
- McDaniel, John (2011), Assistant Professor, Ph.D., University of Utah, 2009
- Miracle, Amy L. (2012), Assistant Professor, Ph.D., University of Nevada-Las Vegas, 2013
- Mussoi, Bruna (2017), Assistant Professor, Ph.D., University of Iowa, 2016
- O'Flannigan, Cara M. (2016), Lecturer, M.A., Case Western Reserve University, 2007
- Peer, Kimberly S. (1999), Professor, Ed.D., University of Akron, 2001
- Ray-Tomasek, Jennifer L. (1998), Assistant Professor, Ph.D., Kent State University, 2004
- Ridgel, Angela L. (2008), Associate Professor, Sc.D., Marshall University, 2000
- Roche, Jennifer M. (2014), Assistant Professor, Ph.D., University of Memphis, 2011
- Sharp, David E. (2015), Assistant Professor, Ph.D., Cornell University, 2015
- Tribuzi, Scot B. (2006), Professor, Ph.D., Kent State University, 2015
- Vaughn, Amy L. (2012), Lecturer, M.A., Case Western Reserve University, 1995
- Visker, Jennifer N. (2016), Lecturer, M.A., Case Western Reserve University, 2001



- Wagner, Laurie M. (1997), Assistant Professor, Ph.D., Kent State University, 2008

## Athletic Training (ATTR)

### ATTR 15001 INTRODUCTION TO CLINICAL ATHLETIC TRAINING I 2 Credit Hours

An overview of the profession of athletic training; including employment opportunities, academic and clinical preparation; and introduction to basic knowledge and skills utilized in the profession. Emphasis on leadership, mentoring, ethics and research from an introductory perspective.

**Prerequisite:** Athletic training major.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 1 lecture, 2 lab

**Grade Mode:** Standard Letter

### ATTR 15002 INTRODUCTION TO SPORTS MEDICINE CAREERS 2 Credit Hours

An overview of the profession of athletic training as well as other similar sports medicine fields; including employment opportunities, academic preparation and clinical preparation. Emphasis on leadership, mentoring, ethics and research from an introductory perspective.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

### ATTR 15011 INTRODUCTION TO CLINICAL ATHLETIC TRAINING II 2 Credit Hours

Basic concepts and skills related to the professional domains of the athletic training profession including basic modalities and rehabilitation, research, ethics, palpations, and blood borne pathogens. Moderate to advanced Skills training in padding, splinting, wound care, equipment, bracing, tapings, wrappings, spine immobilization, and basic assessment techniques.

**Prerequisite:** Athletic training major.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 1 lecture, 2 lab

**Grade Mode:** Standard Letter

### ATTR 15012 DOCUMENTATION IN HEALTH CARE 2 Credit Hours

Addresses clinical writing skills associated with documentation in health care. Addresses the legal, ethical, and practical needs for proper documentation in health care. Focus is on reading, writing and interpreting various forms of medical documentation including but not limited to SOAP notes, progress notes, treatment notes, clinical record keeping, and facility records. Electronic medical record techniques and other clinical record methods will be addressed.

**Prerequisite:** Sport medicine major.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

### ATTR 15092 PRACTICUM IN ATHLETIC TRAINING I (ELR) 3 Credit Hours

The study and clinical application of the competencies in athletic training educational domains. Specific emphasis on the introductory cognitive and psychomotor, as well as foundational behaviors of professional practice. Clinical hours and completion of specific competencies are required.

**Prerequisite:** ATTR 15011; and special approval.

**Schedule Type:** Lecture, Practical Experience

**Contact Hours:** 2 lecture, 12 other

**Grade Mode:** Standard Letter-IP

**Attributes:** Experiential Learning Requirement

### ATTR 20001 SOCIOCULTURAL ASPECTS OF HEALTH CARE 3 Credit Hours

Advanced examination of the sociocultural aspects of healthcare careers. Specific emphasis will be placed of the recognition of diverse patient populations and effectively addressing their unique needs. Cultural competence will be the focus of of the course and will address various aspects of sociocultural diversity; including but not limited to racial, ethnic, religious, socioeconomic, regional beliefs, and alternative approaches to healthcare.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

### ATTR 25036 RESPONDING TO EMERGENCIES 3 Credit Hours

Principles of emergency care including prevention, management, and administrative aspects associated with injury and trauma. Practical competency in emergency care and first aid; American Red Cross Professional Rescuer Certification for CPR and AED.

**Prerequisite:** None.

**Schedule Type:** Laboratory, Lecture, Combined Lecture and Lab

**Contact Hours:** 2 lab, 2 other

**Grade Mode:** Standard Letter

### ATTR 25037 PHYSICAL ASSESSMENT TECHNIQUES AND KINESIOLOGY FOR THE LOWER EXTREMITY AND SPINE 3 Credit Hours

Anatomical, clinical assessment and kinesiology related to injuries and illnesses common in athletic training and sports medicine. Emphasis on orthopedic assessment and kinesiology concepts of the Lower extremity and spine.

**Prerequisite:** ATTR 25036; and ATTR 25057 or EXSC 25057 or BSCI 11010 or BSCI 21010.

**Schedule Type:** Laboratory, Lecture, Combined Lecture and Lab

**Contact Hours:** 2 lecture, 2 lab

**Grade Mode:** Standard Letter

### ATTR 25038 PHYSICAL ASSESSMENT TECHNIQUES AND KINESIOLOGY FOR THE UPPER EXTREMITY, HEAD AND NECK 3 Credit Hours

Anatomical, clinical assessment and kinesiology related to injuries and illnesses common in athletic training and sports medicine. Emphasis on orthopedic assessment and kinesiology concepts of the Upper Extremity, Health and neck.

**Prerequisite:** ATTR 25036 and ATTR 25037; and ATTR 25057 or EXSC 25057 or BSCI 11010 or BSCI 21010.

**Schedule Type:** Laboratory, Lecture, Combined Lecture and Lab

**Contact Hours:** 2 lecture, 2 lab

**Grade Mode:** Standard Letter

**ATTR 25057 HUMAN ANATOMY AND PHYSIOLOGY I (KBS) (KLAB) 4 Credit Hours**

(Cross-listed with EXSC 25057) Comprehensive examination of anatomy and physiology related to the organization of the body and basic cell and tissue types. Specific structure and function of the muscular, skeletal, integumentary and nervous systems are addressed.

**Prerequisite:** None.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 3 lecture, 2 lab

**Grade Mode:** Standard Letter

**Attributes:** Kent Core Basic Sciences, Kent Core Basic Sciences Lab

**ATTR 25058 HUMAN ANATOMY AND PHYSIOLOGY II (KBS) (KLAB) 4 Credit Hours**

(Cross-listed with EXSC 25058) Comprehensive examination of anatomy and physiology related to the human body under rest and exercise conditions. Specific structure and function of the metabolic, endocrine, lymphatic, digestive, urinary and reproductive systems are addressed. Advanced coverage of neurological, cardiovascular and respiratory systems are also addressed.

**Prerequisite:** ATTR 25057 or EXSC 25057 or BSCI 11010 or BSCI 21010.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 3 lecture, 2 lab

**Grade Mode:** Standard Letter

**Attributes:** Kent Core Basic Sciences, Kent Core Basic Sciences Lab

**ATTR 25092 PRACTICUM IN ATHLETIC TRAINING II (ELR) 3 Credit Hours**

The study and clinical application of the competencies in athletic training educational domains. Specific emphasis on the intermediate cognitive and psychomotor components. Clinical hours and completion of specific competencies are required.

**Prerequisite:** ATTR 15092.

**Schedule Type:** Lecture, Practical Experience

**Contact Hours:** 2 lecture, 15 other

**Grade Mode:** Standard Letter-IP

**Attributes:** Experiential Learning Requirement

**ATTR 35025 ESSENTIALS OF ATHLETIC INJURY MANAGEMENT 1 Credit Hour**

Common injuries related to physical activity and/or athletic participation from the cause, management and care perspectives. American Red Cross sport safety training certification (including adult/child CPR) will be granted. Emphasis on application of skills.

**Prerequisite:** None.

**Schedule Type:** Laboratory

**Contact Hours:** 1 lab

**Grade Mode:** Standard Letter

**ATTR 35037 ADVANCED PHYSICAL ASSESSMENT TECHNIQUES 3 Credit Hours**

Anatomical, medical and clinical assessment techniques for injuries and illnesses common to the physically active. Emphasis on neurological and non-orthopedic assessment strategies for proper referral and care.

**Prerequisite:** ATTR 25037 and ATTR 25038; and ATTR 25058 or BSCI 11020 or BSCI 21020 or EXSC 25058.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 2 lecture, 2 lab

**Grade Mode:** Standard Letter

**ATTR 35039 THERAPEUTIC MODALITIES 3 Credit Hours**

The study and practical application of physical modalities including physical principles, physiologic effects, indications/contraindications and standard application procedures. Safety and legal issues of modality usage are also addressed.

**Prerequisite:** ATTR 25036.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**ATTR 35040 STRENGTH AND CONDITIONING 2 Credit Hours**

Demonstrate didactic understanding and clinical application of energy systems, anatomy and proper techniques for strength and conditioning exercises for practical applications with athletes.

**Prerequisite:** ATTR 25057 or EXSC 25057 or BSCI 11010 or BSCI 21010; and Athletic Training, Exercise Science or Physical Education-Professional major.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 1 lecture, 2 lab

**Grade Mode:** Standard Letter

**ATTR 35045 EMERGENCY MEDICAL TECHNICIAN-BASIC 5 Credit Hours**

Preparing for Emergency Medical Technician certification including patient assessment, airway and cardiac management, trauma management, medical patient management and clinical experience.

Prepares students to challenge the National Registry Examination for the State of Ohio for EMT-Basic. Clinical hours are required for this course through Hudson EMS.

**Prerequisite:** None.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 2 lecture, 6 lab

**Grade Mode:** Standard Letter

**ATTR 35050 NEUROLOGICAL PROCESS FOR THE HEALTHCARE PROFESSIONAL 3 Credit Hours**

Advanced cognitive content in the areas of normal and pathological function of the nervous system and its components. Specific emphasis on the neurophysiological basis for motor learning, special senses, and memory serves to address the central and peripheral nervous system structure and function. Growth and Development and pathological responses to hypoxia, microbiologic agents, genetic derangements, nutritional deficiencies, chemicals, drugs and aging are addressed.

**Prerequisite:** ATTR 25057 or EXSC 25057 or BSCI 11010 or BSCI 21010; and ATTR 25058 or EXSC 25058 or BSCI 11020 or BSCI 21020.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ATTR 35054 BIOMECHANICS 3 Credit Hours**

(Cross-listed with EXSC 35054) Anatomical and mechanical bases of human movement. Emphasis is placed on tools and techniques for motion analysis, mechanical concepts, forces and performance analysis. Lecture and laboratory.

**Prerequisite:** ATTR 25057 or EXSC 25057 or BSCI 11010 or BSCI 21010.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 2 lecture, 2 lab

**Grade Mode:** Standard Letter

**ATTR 35062 EVIDENCE-BASED RESEARCH IN HEALTH CARE 3 Credit Hours**

An examination of evidence-based practice and evidence-based research in health care. The focus of the course will include understanding literature, research questions, methods of research, and how evidence-based research and evidence-based practice play a vital role in the delivery or modern day healthcare. Emphasis will be placed upon the process of evidence-based research, utilizing the outcomes of evidence-based research and the utilization of outcomes assessment in healthcare.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ATTR 35092 PRACTICUM IN ATHLETIC TRAINING III (ELR) 3 Credit Hours**

The study and clinical application of the competencies in athletic training educational domains. Specific emphasis on the intermediate and advanced cognitive and psychomotor components. Clinical hours and completion of specific competencies are required.

**Prerequisite:** ATTR 25092.

**Schedule Type:** Lecture, Practical Experience

**Contact Hours:** 2 lecture, 15 other

**Grade Mode:** Standard Letter-IP

**Attributes:** Experiential Learning Requirement

**ATTR 43018 ETHICAL LEADERSHIP FOR HEALTH CARE (WIC) 3 Credit Hours**

(Slashed with ATTR 53018) Examination of specific situations in healthcare from an ethical sensitivity, reasoning and decision making perspective. A problem-oriented case study approach based on contemporary moral issues and moral theory related to clinical and academic health professions. An examination and assessment of leadership styles and methods as they pertain to healthcare and healthcare administration.

**Prerequisite:** Senior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Writing Intensive Course

**ATTR 45017 PROFESSIONAL DEVELOPMENT IN ATHLETIC TRAINING 3 Credit Hours**

An investigation of the issues affecting the student athletic trainer as they prepare for an entry-level career in athletic training. Professional development issues and NATABOC exam preparation are included.

**Prerequisite:** Athletic Training majors only; and senior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ATTR 45019 PROFESSIONAL RESPONSIBILITY AND MANAGEMENT IN HEALTH CARE 3 Credit Hours**

An investigation of the issues affecting the entry level healthcare providers. Professional development issues and career advancement are included. Investigation into current philosophies and legal aspects of healthcare management. Organization and administrative concepts and models will focus on the advancement of patient based healthcare.

**Prerequisite:** Senior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ATTR 45038 ORGANIZATION AND ADMINISTRATION OF ATHLETIC TRAINING 3 Credit Hours**

(Cross-listed with ATTR 55038) Investigation into current philosophies and legal aspects of athletic training. Organization and administration of all aspects of athletic training programs.

**Prerequisite:** ATTR 25036.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ATTR 45039 THERAPEUTIC REHABILITATION 3 Credit Hours**

(Cross-listed with ATTR 55039) The study and clinical application of rehabilitation techniques including strategies for proper exercise selection based on anatomical and physiological considerations, program administration and guidelines for program progression.

**Prerequisite:** ATTR 25036; and ATTR 25057 or EXSC 25057 or BSCI 11010 or BSCI 21010.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 2 lecture, 1 lab

**Grade Mode:** Standard Letter

**ATTR 45040 PATHOLOGY AND PHARMACOLOGY FOR ALLIED HEALTH CARE PROVIDERS 3 Credit Hours**

(Cross-listed with ATTR 55040) Investigation of specific pathological conditions presented by professionals, including physicians and pharmacists. Will discuss common pathologies, associated pharmacological treatment and physiologic effects for various afflictions.

**Prerequisite:** ATTR 25058 or EXSC 25058 or BSCI 11020 or BSCI 21020.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ATTR 45041 ADVANCED THERAPEUTIC INTERVENTIONS 3 Credit Hours**

Addresses the physiological considerations of specific injuries and conditions commonly encountered in the athletic training profession. Focus is on contemporary rehabilitative programming for all of the major body regions. Specific units on Aquatic therapy and rehabilitation, Neurological considerations for rehabilitation, Return to Running Considerations, and Return to Throwing protocols are included.

**Prerequisite:** ATTR 25057 or EXSC 25057 or BSCI 11010 or BSCI 21010; and ATTR 25058 or EXSC 25058 or BSCI 11020 or BSCI 21020; and ATTR 35054 and ATTR 45039.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 2 lecture, 1 lab

**Grade Mode:** Standard Letter

**ATTR 45091 SENIOR SEMINAR IN ATHLETIC TRAINING 1 Credit Hour**

(Repeatable for credit) Contemporary issues related to preparing students for entry-level careers in the athletic training profession including development of the foundational behaviors of professional practice. Specific emphasis on employment preparation or graduate school preparation.

**Prerequisite:** Athletic Training major; and senior standing.

**Schedule Type:** Seminar

**Contact Hours:** 1 lecture

**Grade Mode:** Standard Letter

**ATTR 45096 INDIVIDUAL INVESTIGATION IN ATHLETIC TRAINING 1-3 Credit Hours**

(Repeatable for a maximum of 6 credit hours) Independent study completed under the supervision of a faculty member. Written approval of supervising faculty member and school director required prior to registration.

**Prerequisite:** Special approval.

**Schedule Type:** Individual Investigation

**Contact Hours:** 3-9 other

**Grade Mode:** Standard Letter-IP

**ATTR 45192 PRACTICUM IN ATHLETIC TRAINING IV (ELR) 3 Credit Hours**

The study and clinical application of competencies in athletic training educational domains. Specific emphasis on the advanced cognitive and psychomotor components. Clinical hours and completion of specific competencies are required.

**Prerequisite:** ATTR 35092.

**Schedule Type:** Lecture, Practical Experience

**Contact Hours:** 2 lecture, 15 other

**Grade Mode:** Standard Letter-IP

**Attributes:** Experiential Learning Requirement

**ATTR 45292 INTERNSHIP IN ATHLETIC TRAINING I (ELR) 3 Credit Hours**

Internship in approved athletic training setting under the direct supervision of a certified athletic trainer. Students complete 20 hours per week in a clinical experience.

**Prerequisite:** ATTR 45192; and special approval.

**Schedule Type:** Lecture, Practical Experience

**Contact Hours:** 1 lecture, 20 other

**Grade Mode:** Standard Letter-IP

**Attributes:** Experiential Learning Requirement

**ATTR 45392 INTERNSHIP IN ATHLETIC TRAINING II (ELR) 3 Credit Hours**

Internship in an approved athletic training setting under the supervision of a certified and licensed athletic trainer. Students are required to perform 20 hours per week in clinical experience.

**Prerequisite:** ATTR 45292; and special approval.

**Schedule Type:** Lecture, Practical Experience

**Contact Hours:** 1 lecture, 20 other

**Grade Mode:** Standard Letter-IP

**Attributes:** Experiential Learning Requirement

**ATTR 45492 INTER-PROFESSIONAL INTERNSHIP IN SPORTS MEDICINE (ELR) 3 Credit Hours**

(Repeatable for credit) Inter-professional internship experience in a sports medicine discipline. An internship experience in a sports medicine facility focusing on inter-professional dynamics and aspects of the discipline. A comprehensive clinical experience will be supported by engagement in the inter-professional environment through projects and professional development experiences. Integration of professionalism, professional development, and transition to practice in a sports medicine discipline drives this internship.

**Prerequisite:** Sports medicine major; and senior standing; and special approval.

**Schedule Type:** Practical Experience

**Contact Hours:** 9 other

**Grade Mode:** Standard Letter

**Attributes:** Experiential Learning Requirement

**ATTR 46095 SPECIAL TOPICS IN ATHLETIC TRAINING 1-3 Credit Hours**

(Repeatable for credit) Selected topics in athletic training dependent upon interest.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 1-3 lecture

**Grade Mode:** Standard Letter

**ATTR 53018 ETHICAL LEADERSHIP FOR HEALTH CARE 3 Credit Hours**

(Slashed with ATTR 43018) Examination of specific situations in healthcare from an ethical sensitivity, reasoning and decision making perspective. A problem-oriented case study approach based on contemporary moral issues and moral theory related to clinical and academic health professions. An examination and assessment of leadership styles and methods as they pertain to health care and health care administration.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ATTR 55038 ORGANIZATION AND ADMINISTRATION OF ATHLETIC TRAINING 3 Credit Hours**

(Cross-listed with ATTR 45038) Investigation into current philosophies and legal aspects of athletic training. Organization and administration of all aspects of athletic training programs.

**Prerequisite:** ATTR 25036; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ATTR 55039 THERAPEUTIC REHABILITATION 3 Credit Hours**

(Cross-listed with ATTR 45039) The study and clinical application of rehabilitation techniques including strategies for proper exercise selection based on anatomical and physiological considerations, program administration, and guidelines for program progression.

**Prerequisite:** Graduate standing.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 2 lecture, 2 lab

**Grade Mode:** Standard Letter

**ATTR 55040 PATHOLOGY AND PHARMACOLOGY FOR ALLIED HEALTH CARE PROVIDERS 3 Credit Hours**

Investigation of specific pathological conditions presented by professionals, including physicians and pharmacists. Will discuss common pathologies, associated pharmacological treatments and physiologic effects for various afflictions.

**Prerequisite:** ATTR 25058 or EXSC 25058.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ATTR 60000 CADAVER ANATOMY AND APPLIED ASSESSMENT 6 Credit Hours**

Cadaver dissection with emphasis on the systems of the body to understand structure and function of the anatomical structures. Applied assessment components integrate functional assessment and diagnostic signs and symptoms of common athletic training conditions and injuries. Evidence-based assessment will be infused throughout the course.

**Prerequisite:** Athletic Training major within the Master of Science degree; and graduate standing.

**Schedule Type:** Laboratory, Lecture, Combined Lecture and Lab

**Contact Hours:** 3 lecture, 6 lab

**Grade Mode:** Standard Letter

**ATTR 61000 ACUTE INJURY DIAGNOSIS, TREATMENT AND MANAGEMENT 3 Credit Hours**

Mechanisms of acute injuries will provide the foundation for the integration of evidence-based knowledge in the diagnosis, treatment and management of athletic training injuries. Contemporary clinical guidelines and management strategies will provide a framework for critical thinking and practical application.

**Prerequisite:** Graduate standing.

**Schedule Type:** Laboratory, Lecture, Combined Lecture and Lab

**Contact Hours:** 2 lecture, 2 lab

**Grade Mode:** Standard Letter

**ATTR 62010 CONTEMPORARY ISSUES IN ATHLETIC TRAINING 3 Credit Hours**

A comprehensive examination of contemporary issues, trends and problems affecting athletic training professionals related to the domains of practice for athletic trainers.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ATTR 62012 EDUCATION AND SUPERVISION PROCESSES IN ATHLETIC TRAINING 3 Credit Hours**

A comprehensive examination of educational learning theories, curriculum design, evaluation and supervision strategies in athletic training education programs from didactic and clinical perspectives. Additional applications for continuing education programs will be included.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ATTR 62014 ADVANCED CLINICAL PROCEDURES IN ATHLETIC TRAINING AND SPORTS MEDICINE 3 Credit Hours**

Advanced clinical practice theory and skills as they relate to the profession of athletic training and sports medicine. Emphasis on contemporary clinical practice issues for a variety of athletic training and sports medicine professional settings.

**Prerequisite:** Graduate standing.

**Schedule Type:** Laboratory, Lecture, Combined Lecture and Lab

**Contact Hours:** 2 lecture, 2 lab

**Grade Mode:** Standard Letter

**ATTR 62016 CLINICAL INQUIRY IN ATHLETIC TRAINING 3 Credit Hours**

Principles of athletic training research methodologies with a focus on clinical athletic training research. Completion of a clinical research project will be required in this course.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ATTR 63091 RESEARCH SEMINAR 1 Credit Hour**

(Slashed with ATTR 73091) Presentation and discussion of research by faculty and students. A total of 2 credits may be applied toward degree requirements.

**Prerequisite:** Graduate standing.

**Schedule Type:** Seminar

**Contact Hours:** 1 other

**Grade Mode:** Satisfactory/Unsatisfactory

**ATTR 63094 COLLEGE TEACHING IN HEALTH SCIENCES 3 Credit Hours**

(Repeatable for a maximum of 6 credit hours) Guided teaching experiences in the Health Sciences. Specific emphasis on establishing and implementing a teaching philosophy in an instructional setting in the Health Sciences. Development of Professional Teaching Behaviors will be addressed. A comprehensive teaching experience rooted in contemporary teaching literature will guide this course.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Lecture, Seminar

**Contact Hours:** 1 lecture, 2 other

**Grade Mode:** Standard Letter

**ATTR 63096 INDIVIDUAL INVESTIGATION IN ATHLETIC TRAINING 1-3 Credit Hours**

(Repeatable for a maximum of 6 credit hours) Independent study completed under the supervision of a faculty member. Written approval of supervising faculty member and School director required prior to registration.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Individual Investigation

**Contact Hours:** 3-9 other

**Grade Mode:** Standard Letter-IP

**ATTR 63098 RESEARCH 1-15 Credit Hours**

(Repeatable for credit) Research carried out by the student under the supervision of a faculty member.

**Prerequisite:** Graduate standing.

**Schedule Type:** Research

**Contact Hours:** 1-15 other

**Grade Mode:** Standard Letter-IP

**ATTR 63193 VARIABLE TITLE WORKSHOP IN ATHLETIC TRAINING 1-3 Credit Hours**

(Repeatable for credit) Workshop in athletic training; topics vary. Maximum 4 hours applied to the degree.

**Prerequisite:** Graduate standing.

**Schedule Type:** Workshop

**Contact Hours:** 1-3 other

**Grade Mode:** Satisfactory/Unsatisfactory



**ATTR 63195 SPECIAL TOPICS IN ATHLETIC TRAINING 1-3 Credit Hours**

(Repeatable for a maximum of 6 credit hours) Selected and varied topics of relevance in athletic training.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 1-3 lecture

**Grade Mode:** Standard Letter

**ATTR 63199 THESIS I 2-6 Credit Hours**

(Repeatable for credit) Thesis students must register for a total of 6 hours, 2 to 6 hours in a semester distributed over several semesters if desired.

**Prerequisite:** Graduate standing.

**Schedule Type:** Masters Thesis

**Contact Hours:** 2-6 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**ATTR 63299 THESIS II 2 Credit Hours**

Thesis students must continue registration each semester until all degree requirements are met.

**Prerequisite:** ATTR 63199; and graduate standing.

**Schedule Type:** Masters Thesis

**Contact Hours:** 2 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**ATTR 65001 CLINICAL PRACTICE I: PREVENTION AND WELLNESS 3 Credit Hours**

Clinical practicum in an athletic training setting under the direct supervision of a certified, licensed health care provider. Emphasis on the development of clinical competencies related to prevention of injuries and medical conditions and overall wellness will be the primary focus. Engagement in an inter-professional environment with specific competencies for research and ethical case analysis are required. Students must complete a minimum of 180 hours in clinicals.

**Prerequisite:** Athletic Training major within the Master of Science degree; and graduate standing.

**Schedule Type:** Clinical Laboratory

**Contact Hours:** 12 other

**Grade Mode:** Standard Letter

**ATTR 65002 CLINICAL PRACTICE II: ADVANCED HEAD, NECK AND ORTHOPEDIC 3 Credit Hours**

Clinical practicum in an athletic training setting under the direct supervision of a certified, licensed health care provider. Emphasis on the development of clinical competencies related to Head, Neck, and Orthopedic conditions and overall wellness will be the primary focus. Engagement in an inter-professional environment with specific competencies for research and ethical case analysis are required. Student must complete a minimum of 180 hours in clinicals.

**Prerequisite:** Athletic Training major within the Master of Science degree; and graduate standing.

**Schedule Type:** Clinical Laboratory

**Contact Hours:** 12 other

**Grade Mode:** Standard Letter

**ATTR 65003 CLINICAL PRACTICE III: GENERAL MEDICAL 3 Credit Hours**

Clinical practicum in an athletic training setting under the direct supervision of a certified, licensed health care provider. Emphasis on the development of clinical competencies related to general medical conditions will be the primary focus. Engagement in an inter-professional environment including rotations with physicians and/or nurse practitioners with specific competencies for research and ethical case analysis are required. Student must complete a minimum of 180 hour in clinicals.

**Prerequisite:** Athletic Training major within the Master of Science degree; and graduate standing.

**Schedule Type:** Clinical Laboratory

**Contact Hours:** 12 other

**Grade Mode:** Standard Letter

**ATTR 65004 BIOMECHANICS 3 Credit Hours**

(Cross-listed with EXPH 75004) Survey of biomechanics, with particular emphasis on skeletal muscle mechanics.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ATTR 65005 CLINICAL PRACTICE IV: ADVANCED COMPETENCIES 3 Credit Hours**

Clinical practicum in an athletic training setting under the direct supervision of a certified, licensed health care provider. Emphasis on the development of clinical competencies related to advanced competencies and skills in athletic training will be the primary focus. Engagement in an inter-professional environment with specific competencies for research and ethical case analysis are required. Student must complete a minimum of 180 hours in clinicals.

**Prerequisite:** Athletic Training major within the Master of Science degree; and graduate standing.

**Schedule Type:** Clinical Laboratory

**Contact Hours:** 12 other

**Grade Mode:** Standard Letter

**ATTR 65037 PHYSICAL AGENTS IN ATHLETIC TRAINING AND SPORTS MEDICINE 3 Credit Hours**

The study and practical application of physical modalities including physical principles, physiologic effects, indications-contradictions, and standard application procedures. Safety and legal issues of modality usage are also addressed.

**Prerequisite:** Graduate standing.

**Schedule Type:** Laboratory, Lecture, Combined Lecture and Lab

**Contact Hours:** 2 lecture, 2 lab

**Grade Mode:** Standard Letter

**ATTR 65038 ADMINISTRATION CONCEPTS FOR THE HEALTHCARE PROFESSIONAL 3 Credit Hours**

Investigation into current philosophies and legal aspects of athletic training and sports medicine programs. Organization and administration of all aspects of athletic training and sports medicine programs with specific emphasis on policy and regulation of programs anchored in contemporary healthcare practices.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ATTR 65039 PHYSICAL REHABILITATION IN ATHLETIC TRAINING AND SPORTS MEDICINE 3 Credit Hours**

The study and clinical application of evidence based rehabilitation techniques including strategies for proper exercise selection based on anatomical and physiological considerations, program administration, and guidelines for program progression. This course will address the comprehensive concepts related to the rehabilitation of including but not limited to modality selection, pharmacological considerations, record keeping, program design and implementation, and safety aspects. The psychology of rehabilitation including goal setting and motivation will also be addressed. Current literature and techniques in the field will support the content of this course.

**Prerequisite:** Graduate standing.

**Schedule Type:** Laboratory, Lecture, Combined Lecture and Lab

**Contact Hours:** 2 lecture, 2 lab

**Grade Mode:** Standard Letter

**ATTR 65040 PATHOPHARMACOLOGY FOR HEALTHCARE PROVIDERS 3 Credit Hours**

Advanced investigation of specific pathological conditions presented by professionals, including physicians and pharmacists. Will discuss common pathologies, associated pharmacological treatment and physiologic effects for various afflictions anchored in evidence-based practice in health care.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ATTR 65050 NEUROLOGICAL CONCEPTS FOR THE HEALTHCARE PROFESSIONAL 3 Credit Hours**

Advanced cognitive content in normal and pathological function of the nervous system and its components. Specific emphasis on the neurophysiological basis for motor learning, special senses, and memory serves to address the central and peripheral nervous system structure and function. Growth and Development and pathological responses to hypoxia, microbiologic agents, genetic derangements, nutritional deficiencies, chemicals, drugs and aging are addressed. Evidence-based practice concepts will guide the integration from anatomy and physiology to effective interventions for selected neurological conditions.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ATTR 69999 CLINICAL CAPSTONE IN ATHLETIC TRAINING 6 Credit Hours**

Clinical Capstone is an intensive, immersion experience in the clinical setting under the direct supervision of a certified, licensed health care professional. Students will invest a minimum of 360 in the clinical setting working with inter-professional health care providers. Clinical capstone expectations include performance evaluations by supervisors and patient management to promote active clinical engagement and critical thinking. A portfolio will include professional skill assessments, performance assessment, case studies, mock interview, and formal evidence-based presentation to health care providers on an athletic training domain.

**Prerequisite:** Athletic Training major within the Master of Science degree; and graduate standing.

**Schedule Type:** Clinical Laboratory

**Contact Hours:** 24 other

**Grade Mode:** Standard Letter

**ATTR 73091 RESEARCH SEMINAR 1 Credit Hour**

(Slashed with ATTR 63091) Presentation and discussion of research by faculty and students. A total of 2 credits may be applied toward degree requirements.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Seminar

**Contact Hours:** 1 other

**Grade Mode:** Satisfactory/Unsatisfactory

**ATTR 73094 COLLEGE TEACHING IN HEALTH SCIENCES 3 Credit Hours**

Guided teaching experiences in health sciences. Specific emphasis on establishing and implementing a teaching philosophy in an instructional setting in the health sciences. Development of Professional Teaching Behaviors will be addressed. A comprehensive teaching experience rooting in contemporary literature will guide this course.

**Prerequisite:** Doctoral standing; and special approval.

**Schedule Type:** Lecture, Seminar

**Contact Hours:** 1 lecture, 2 other

**Grade Mode:** Standard Letter

**ATTR 75001 EVIDENCE BASED INTERVENTIONS IN ATHLETIC TRAINING 3 Credit Hours**

This course will examine the use of Evidence Based Interventions (EBI) in Athletic Training Education. This course will examine the implementation of EBI constructs across the curriculum and program. Specific emphasis on designing and implementing EBI into didactic and clinical experiences in Athletic Training. Implementation of EBI into the development, implementation and dissemination of research will also be addressed. Through an extensive examination of the critical literature, students will gain an understanding of how to broadly integrate EBI constructs in their professional practice.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ATTR 75002 ACADEMIC AND ADMINISTRATIVE LEADERSHIP IN ATHLETIC TRAINING 3 Credit Hours**

This course will address the key academic leadership constructs needed to navigate the higher education culture as a faculty and/or clinical faculty member. Human resources, politics, administrative processes and organizational factors related to successful higher education and clinical leadership will be the focus. Leadership and advocacy strategies for professional organizations will also be developed.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ATTR 75003 CONTINUOUS QUALITY IMPROVEMENT AND ASSESSMENT IN ATHLETIC TRAINING 3 Credit Hours**

The focus of the course includes the fundamental constructs associated with quality improvement through an academic program in athletic training. The development of inter-professional practice, engaging curriculum, creation of educational and administrative policy, and leading change within Athletic Training organizations. The course will assist students in developing action plans for their organization pertaining to organizational improvement.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ATTR 75004 TEACHING AND CLINICAL EDUCATION LEADERSHIP IN ATHLETIC TRAINING 3 Credit Hours**

This course focuses on the comprehensive and integrated elements in athletic training education. An in-depth analysis of curriculum design and implementation, didactic and clinical education, program assessments, and accreditation policies and standards will be addressed. A framework rooted in the context of inter-professional education promote organizational and programmatic improvements related dynamic trends in HC education.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Exercise Physiology (EXPH)****EXPH 50612 EXERCISE LEADERSHIP FOR THE OLDER ADULT 3 Credit Hours**

(Cross-listed with EXSC 40612) Designed to provide the students with a knowledge base in exercise leadership in the senior population and includes special populations. Students participate in the leading supervision and evaluation of the participant within the exercise program. They also assist in the collection of functional fitness data.

**Prerequisite:** Graduate standing.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 2 lecture, 2 lab

**Grade Mode:** Standard Letter

**EXPH 51000 EXERCISE IMPLEMENTATION: AN EXERCISE INTERVENTION PROGRAM 1-3 Credit Hours**

(Repeatable for credit) Students will participate in leading, supervising and developing plans for individuals who want to reduce cardiovascular risk factors through structured exercise.

**Prerequisite:** EXPH 55080; and graduate standing.

**Schedule Type:** Laboratory

**Contact Hours:** 3-9 lab

**Grade Mode:** Standard Letter

**EXPH 53093 VARIABEL TITLE WORKSHOP IN EXERCISE SCIENCE AND EXERCISE PHYSIOLOGY 1-3 Credit Hours**

(Repeatable for credit) (Cross-listed with EXSC 43093) Workshop in exercise science or physiology, topics vary.

**Prerequisite:** Graduate standing.

**Schedule Type:** Workshop

**Contact Hours:** 1-3 other

**Grade Mode:** Satisfactory/Unsatisfactory

**EXPH 55040 ADVANCED STRENGTH AND CONDITIONING 3 Credit Hours**

(Slashed with EXSC 45040) Advanced principles in strength and conditioning. Learn and understand the energy systems, anatomy, physiology and proper lifting technique of strength, speed, agility and conditioning exercises for practical application with athletes.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**EXPH 55065 EXERCISE TESTING 3 Credit Hours**

(Cross-listed with EXSC 45065) Lecture and laboratory experiences dealing with the administration and interpretation of exercise tests.

**Prerequisite:** Graduate standing.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 2 lecture, 2 lab

**Grade Mode:** Standard Letter

**EXPH 55070 ELECTROCARDIOGRAPHY FOR THE EXERCISE PHYSIOLOGIST 3 Credit Hours**

(Cross-listed with EXSC 45070) Designed to provide students with the knowledge base in electrocardiography. Students work on interpreting the 12-lead electrocardiogram with clinical case studies to enhance the knowledge base of the exercise specialist.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**EXPH 55080 PHYSIOLOGY OF EXERCISE 3 Credit Hours**

(Cross-listed with EXSC 45080) Physiological bases of muscular activity with special attention to general effects of exercise on body function. Laboratory included.

**Prerequisite:** Graduate standing.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 2 lecture, 2 lab

**Grade Mode:** Standard Letter

**EXPH 60610 PHYSIOLOGY OF AGING: IMPLICATIONS FOR HUMAN BEHAVIOR 3 Credit Hours**

(Cross-listed with EXPH 70610) Examine physiological changes which accompany advancing age. Special attention is paid to the effect of these changes on sensory motor and cognitive behavior.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**EXPH 63050 RESEARCH PROCESS IN ATHLETIC TRAINING AND EXERCISE PHYSIOLOGY 3 Credit Hours**

(Cross-listed with EXPH 73050) The research process and statistical concepts applied to athletic training and exercise physiology.

**Prerequisite:** Graduate standing.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 2 lecture, 2 lab

**Grade Mode:** Standard Letter

**EXPH 63051 QUANTITATIVE AND RESEARCH METHODS IN ATHLETIC TRAINING AND EXERCISE PHYSIOLOGY 3 Credit Hours**

(Slashed with EXPH 73051) Research design and statistical methods applied to exercise, physiology and athletic training.

**Prerequisite:** EXPH 63050; and graduate standing.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 2 lecture, 2 lab

**Grade Mode:** Standard Letter

**EXPH 63091 RESEARCH SEMINAR 1 Credit Hour**

(Repeatable for credit) (Slashed with EXPH 73091) Presentation and discussion of research by faculty and students. A total of 2 credits may be applied toward degree requirements.

**Prerequisite:** Graduate standing.

**Schedule Type:** Seminar

**Contact Hours:** 1 other

**Grade Mode:** Satisfactory/Unsatisfactory

**EXPH 63096 INDIVIDUAL INVESTIGATION IN EXERCISE PHYSIOLOGY**  
**1-3 Credit Hours**

(Repeatable for a maximum of 6 credit hours) (Slashed with EXPH 73096) Independent study completed under the supervision of a faculty member. Written approval of supervising faculty member and School Director required prior to registration.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Individual Investigation

**Contact Hours:** 3-9 other

**Grade Mode:** Standard Letter-IP

**EXPH 63098 RESEARCH 1-15 Credit Hours**

(Repeatable for credit) Research carried out by the student under the supervision of a faculty member.

**Prerequisite:** Graduate standing.

**Schedule Type:** Research

**Contact Hours:** 1-15 other

**Grade Mode:** Standard Letter-IP

**EXPH 63193 VARIABLE TITLE WORKSHOP IN EXERCISE PHYSIOLOGY**  
**1-3 Credit Hours**

(Repeatable for credit) Workshop in exercise physiology; topics vary. Maximum 4 hours applied to the degree.

**Prerequisite:** Graduate standing.

**Schedule Type:** Workshop

**Contact Hours:** 1-3 other

**Grade Mode:** Satisfactory/Unsatisfactory

**EXPH 63195 SPECIAL TOPICS IN EXERCISE PHYSIOLOGY 1-3 Credit Hours**

(Repeatable for credit) (Slashed with EXPH 73195) Selected and varied topics of relevance in exercise physiology.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 1-3 lecture

**Grade Mode:** Standard Letter

**EXPH 63199 THESIS I 2-6 Credit Hours**

(Repeatable for credit) Thesis students must register for a total of 6 hours, 2 to 6 hours in a semester distributed over several semesters if desired.

**Prerequisite:** Graduate standing.

**Schedule Type:** Masters Thesis

**Contact Hours:** 3 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**EXPH 63299 THESIS II 2 Credit Hours**

Thesis students must continue registration each semester until all degree requirements are met.

**Prerequisite:** EXPH 63199; and graduate standing.

**Schedule Type:** Masters Thesis

**Contact Hours:** 2 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**EXPH 65075 MUSCLE FUNCTION AND EXERCISE 3 Credit Hours**

(Slashed with EXPH 75075) Characteristics of skeletal muscle related to contraction during exercise, strength, elasticity, fatigue, and training. Electromyograph analysis of muscle function emphasized.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**EXPH 65076 ENVIRONMENTAL STRESS AND EXERCISE 3 Credit Hours**

(Slashed with EXPH 75076) Effects of heat, cold, pressure, pollution and psychological stress upon physiological responses to exercise. Lecture and laboratory.

**Prerequisite:** Graduate standing.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 2 lecture, 2 lab

**Grade Mode:** Standard Letter

**EXPH 65080 PHYSIOLOGICAL BASIS OF EXERCISE AND SPORT 3 Credit Hours**

(Slashed with EXPH 75080) Application of physiological concepts to human performance. Includes role of testing, training strength and endurance, nutritional considerations, environmental influences and, adapted exercise programs.

**Prerequisite:** Graduate standing.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 2 lecture, 2 lab

**Grade Mode:** Standard Letter

**EXPH 65081 ENERGY METABOLISM AND BODY COMPOSITION 3 Credit Hours**

(Slashed with EXPH 75081) Measurement of metabolic response to exercise. Topics include ergometry spirometry energy expenditure body composition and performance correlates of strength power and endurance.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**EXPH 65082 CARDIO-RESPIRATORY FUNCTION 3 Credit Hours**

(Slashed with EXPH 75082) Measurement of the cardiovascular-respiratory response to exercise. Includes resting spirometry, lung function during exercise, electrocardiography, blood pressure, PWC testing and exercise prescription.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**EXPH 65083 EXERCISE ENERGY METABOLISM 3 Credit Hours**

(Slashed with EXPH 75083) Energy transformations during exercise. Emphasis on controlling mechanisms that regulate the anabolic and catabolic responses to both acute and chronic exercise.

**Prerequisite:** Graduate standing.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 2 lecture, 2 lab

**Grade Mode:** Standard Letter

**EXPH 65084 CARDIOVASCULAR-RESPIRATORY DYNAMICS DURING EXERCISE 3 Credit Hours**

(Slashed with EXPH 75084) Responses of the cardiovascular and respiratory systems to exercise. Use of noninvasive methods to measure cardio-respiratory function emphasized. Lecture and laboratory.

**Prerequisite:** Graduate standing.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 2 lecture, 2 lab

**Grade Mode:** Standard Letter



**EXPH 65086 NEUROBIOLOGY OF MOVEMENT AND EXERCISE 3****Credit Hours**

(Slashed with EXPH 75086) Provide students with knowledge to understand the role of the muscular and nervous systems in human movement and exercise. Motor disorders and rehabilitation techniques will also be discussed. Lecture and laboratory.

**Prerequisite:** Graduate standing.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 2 lecture, 2 lab

**Grade Mode:** Standard Letter

**EXPH 65192 INTERNSHIP IN EXERCISE PHYSIOLOGY 1-6 Credit Hours**

(Repeatable for a maximum of 8 credit hours) (Slashed with EXPH 75192)

Field experience in exercise physiology programs and testing in Kent State University adult fitness program or cooperating agencies.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Practical Experience

**Contact Hours:** 3-18 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**EXPH 70610 PHYSIOLOGY OF AGING:IMPLICATIONS FOR HUMAN BEHAVIOR 3 Credit Hours**

(Slashed with EXPH 60610) Examine physiological changes which accompany advancing age. Special attention is paid to the effect of these changes on sensory motor and cognitive behavior.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**EXPH 73050 RESEARCH PROCESSES IN ATHLETIC TRAINING AND EXERCISE PHYSIOLOGY 3 Credit Hours**

(Slashed with EXPH 63050) The research process and statistical concepts applied to athletic training and exercise physiology.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 2 lecture, 2 lab

**Grade Mode:** Standard Letter

**EXPH 73051 QUANTITATIVE AND RESEARCH METHODS IN ATHLETIC TRAINING AND EXERCISE PHYSIOLOGY 3 Credit Hours**

(Slashed with EXPH 63051) Research design and statistical methods applied to exercise physiology and athletic training.

**Prerequisite:** EXPH 73050; and doctoral standing.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 2 lecture, 2 lab

**Grade Mode:** Standard Letter

**EXPH 73091 RESEARCH SEMINAR 1 Credit Hour**

(Repeatable for credit) Presentation and discussion of research by faculty and students. A total of 2 credits may be applied toward degree requirements.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Seminar

**Contact Hours:** 1 other

**Grade Mode:** Satisfactory/Unsatisfactory

**EXPH 73096 INDIVIDUAL INVESTIGATION IN EXERCISE PHYSIOLOGY 1-3 Credit Hours**

(Repeatable for a maximum of 6 credit hours) (Slashed with EXPH 63096) Independent student completed under the supervision of a faculty member. Written approval of supervising faculty member and School Director required prior to registration.

**Prerequisite:** Doctoral standing; and special approval.

**Schedule Type:** Individual Investigation

**Contact Hours:** 1-3 other

**Grade Mode:** Standard Letter-IP

**EXPH 73195 SPECIAL TOPICS IN EXERCISE PHYSIOLOGY 1-3 Credit Hours**

(Repeatable for a maximum of 6 credit hours) (Slashed with EXPH 63195)

Selected and varied topics of relevance in exercise physiology.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 1-3 lecture

**Grade Mode:** Standard Letter

**EXPH 75004 BIOMECHANICS 3 Credit Hours**

(Cross-listed with ATTR 65004) Survey of biomechanics, with particular emphasis on skeletal muscle mechanics.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**EXPH 75075 MUSCLE FUNCTION AND EXERCISE 3 Credit Hours**

(Slashed with EXPH 65075) Characteristics of skeletal muscle related to contraction during exercise, strength, elasticity, fatigue and training. Electromyograph analysis of muscle function emphasized.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**EXPH 75076 ENVIRONMENTAL STRESS AND EXERCISE 3 Credit Hours**

(Slashed with EXPH 65076) Effects of heat, cold, pressure, pollution and psychological stress upon physiological responses to exercise. Lecture and laboratory.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 2 lecture, 2 lab

**Grade Mode:** Standard Letter

**EXPH 75080 PHYSIOLOGICAL BASIS OF EXERCISE AND SPORT 3 Credit Hours**

(Slashed with EXPH 65080) Application of physiological concepts to human performance. Includes role of testing, training, strength and endurance, nutritional considerations, environmental influences, and adapted exercise programs.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 2 lecture, 2 lab

**Grade Mode:** Standard Letter



**EXPH 75081 ENERGY METABOLISM AND BODY COMPOSITION 3 Credit Hours**

(Slashed with EXPH 65081) Measurement of metabolic response to exercise. Topics include ergometry, spirometry, energy expenditure, body composition and performance correlates of strength, power and endurance.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**EXPH 75082 CARDIO-RESPIRATORY FUNCTION 3 Credit Hours**

(Cross-listed with EXPH 65082) Measurement of the cardiovascular-respiratory response to exercise. Includes resting spirometry, lung function during exercise, electrocardiography, blood pressure, PWC testing and exercise prescription.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**EXPH 75083 EXERCISE ENERGY METABOLISM 3 Credit Hours**

(Slashed with EXPH 65083) Energy transformations during exercise. Emphasis on controlling mechanisms that regulate the anabolic and catabolic responses to both acute and chronic exercise.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 2 lecture, 2 lab

**Grade Mode:** Standard Letter

**EXPH 75084 CARDIOVASCULAR-RESPIRATORY DYNAMICS DURING EXERCISE 3 Credit Hours**

(Slashed with EXPH 65084) Responses of the cardiovascular and respiratory systems to exercise. Use of noninvasive methods to measure cardio-respiratory function emphasized. Lecture and laboratory.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 2 lecture, 2 lab

**Grade Mode:** Standard Letter

**EXPH 75086 NEUROBIOLOGY OF EXERCISE AND MOVEMENT 3 Credit Hours**

(Slashed with EXPH 65086) Provides students with knowledge to understand the role of the muscular and nervous systems in human movement and exercise. Motor disorders and rehabilitation techniques will also be discussed. Lecture and laboratory.

**Prerequisite:** Graduate standing.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 2 lecture, 2 lab

**Grade Mode:** Standard Letter

**EXPH 75192 INTERNSHIP IN EXERCISE PHYSIOLOGY 1-6 Credit Hours**

(Repeatable for a maximum of 8 credit hours) (Slashed with EXPH 65192) Field experience in exercise physiology programs and testing in KSU adult fitness program or cooperating agencies.

**Prerequisite:** Doctoral standing; and special approval.

**Schedule Type:** Practical Experience

**Contact Hours:** 3-18 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**EXPH 83098 RESEARCH 1-15 Credit Hours**

(Repeatable for credit) Research for doctoral students.

**Prerequisite:** Doctoral standing; and special approval.

**Schedule Type:** Research

**Contact Hours:** 1-15 other

**Grade Mode:** Standard Letter-IP

**EXPH 83199 DISSERTATION I 15 Credit Hours**

(Repeatable for credit) Doctoral dissertation, for which registration in at least two semesters is required, first of which will be semester in which dissertation work is begun and continuing until the completion of 30 hours.

**Prerequisite:** Doctoral standing; and special approval.

**Schedule Type:** Dissertation

**Contact Hours:** 15 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**EXPH 83299 DISSERTATION II 15 Credit Hours**

(Repeatable for credit) Continuing registration required of doctoral students who have completed the initial 30 hours of dissertation and continuing until all degree requirements are met.

**Prerequisite:** EXPH 83199; and doctoral standing.

**Schedule Type:** Dissertation

**Contact Hours:** 15 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

## Exercise Science (EXSC)

**EXSC 15010 INTRODUCTION TO EXERCISE SCIENCE 2 Credit Hours**

Introduction to the discipline of exercise science, including the history of the field, current position stands of the American College of Sports Medicine, the responsibilities and roles of the exercise physiologist and the current trends in exercise science.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**EXSC 23093 VARIABLE TITLE WORKSHOP IN EXERCISE SCIENCE 1-3 Credit Hours**

(Repeatable for credit) Workshop to develop mastery and application of knowledge and skills that address issues in exercise science; topics vary. Satisfactory/unsatisfactory (S/U) graded.

**Prerequisite:** None.

**Schedule Type:** Workshop

**Contact Hours:** 1-3 other

**Grade Mode:** Satisfactory/Unsatisfactory

**EXSC 25057 HUMAN ANATOMY AND PHYSIOLOGY I (KBS) (KLAB) 4 Credit Hours**

(Cross-listed with ATTR 25057) Comprehensive examination of anatomy and physiology related to the organization of the body and basic cell and tissue types. Specific structure and function of the muscular, skeletal, integumentary, and nervous systems are addressed.

**Prerequisite:** None.

**Schedule Type:** Laboratory, Lecture, Combined Lecture and Lab

**Contact Hours:** 3 lecture, 2 lab

**Grade Mode:** Standard Letter

**Attributes:** Kent Core Basic Sciences, Kent Core Basic Sciences Lab

**EXSC 25058 HUMAN ANATOMY AND PHYSIOLOGY II (KBS) (KLAB) 4 Credit Hours**

(Cross-listed with ATTR 25058) Comprehensive examination of anatomy and physiology related to the human body under rest and exercise conditions. Specific structure and function of the metabolic, endocrine, lymphatic, digestive, urinary and reproductive systems are addressed. Advanced coverage of neurological, cardiovascular and respiratory systems are also addressed.

**Prerequisite:** ATTR 25057 or EXSC 25057 or BSCI 11010 or BSCI 21010.

**Schedule Type:** Laboratory, Lecture, Combined Lecture and Lab

**Contact Hours:** 3 lecture, 2 lab

**Grade Mode:** Standard Letter

**Attributes:** Kent Core Basic Sciences, Kent Core Basic Sciences Lab

**EXSC 35022 EXERCISE LEADERSHIP 3 Credit Hours**

Designed to provide the students with the knowledge base in exercise leadership. Topic areas and competencies using a variety of techniques in leading and demonstrating safe and effective methods of applying the fundamental principles of exercise science. The exercise leader will demonstrate all forms of group exercise, flexibility and balance training.

**Prerequisite:** None.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 2 lecture, 2 lab

**Grade Mode:** Standard Letter

**Attributes:** CTAG Exercise Science

**EXSC 35023 PROFESSIONAL CERTIFICATE PREPARATION 2 Credit Hours**

Introductory course in personal training. Covers basic exercise science, fitness evaluation risk management, health appraisal, safety and legal issues for the personal trainer. Prepares the student to take the national certification examination for personal training.

**Prerequisite:** EXSC 25057 or ATTR 25057 or BSCI 11010 or BSCI 21010; and EXSC 25058 or ATTR 25058 or BSCI 11020 or BSCI 21020.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 1 lecture, 2 lab

**Grade Mode:** Standard Letter

**EXSC 35054 BIOMECHANICS 3 Credit Hours**

(Cross-listed with ATTR 35054) Anatomical and mechanical bases of human movement. Emphasis is placed on tools and techniques for motion analysis, mechanical concepts, forces and performance analysis. Lecture and laboratory.

**Prerequisite:** ATTR 25057 or EXSC 25057 or BSCI 11010 or BSCI 21010.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 2 lecture, 2 lab

**Grade Mode:** Standard Letter

**EXSC 35068 STATISTICS FOR THE EXERCISE SCIENTIST 3 Credit Hours**

Measurement and statistics applied to physical education and exercise/sport sciences; laboratory experiences in statistics test construction and administration and evaluation.

**Prerequisite:** None.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 2 lecture, 2 lab

**Grade Mode:** Standard Letter

**EXSC 35075 EXERCISE PROGRAMMING 3 Credit Hours**

Problems and issues in developing exercise programs in institutional and commercial settings.

**Prerequisite:** ATTR 25057 or EXSC 25057 or BSCI 11010 or BSCI 21010; and ATTR 25058 or EXSC 25058 or BSCI 11020 or BSCI 21020.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 2 lecture, 2 lab

**Grade Mode:** Standard Letter

**EXSC 40612 EXERCISE LEADERSHIP FOR THE OLDER ADULT 3 Credit Hours**

(Cross-listed with EXPH 50612) Designed to provide students with a knowledge base in exercise leadership in the older adult population, including special populations. Students participate in the leading, supervision and evaluation of participants within the exercise program. The also assist in the collection of functional fitness data.

**Prerequisite:** None.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 2 lecture, 2 lab

**Grade Mode:** Standard Letter

**EXSC 41000 EXERCISE IMPLEMENTATION: AN EXERCISE INTERVENTION PROGRAM 1-3 Credit Hours**

(Repeatable for credit) Students will participate in leading, supervising and developing plans for individuals who want to reduce cardiovascular risk factors through structured exercise.

**Prerequisite:** EXSC 45080.

**Schedule Type:** Laboratory

**Contact Hours:** 3-9 other

**Grade Mode:** Standard Letter

**EXSC 43093 VARIABLE TITLED WORKSHOP IN EXERCISE SCIENCE AND EXERCISE PHYSIOLOGY 1-3 Credit Hours**

(Repeatable for credit) (Cross-listed with EXPH 53093) Workshop in exercise science, topics vary.

**Prerequisite:** None.

**Schedule Type:** Workshop

**Contact Hours:** 1-3 lecture

**Grade Mode:** Satisfactory/Unsatisfactory

**EXSC 43098 RESEARCH IN EXERCISE SCIENCE (ELR) 1-3 Credit Hours**

(Repeatable for a maximum of 12 credit hours) Research project completed under the supervision of a faculty member. Written approval of supervising faculty member and School Director required prior to registration.

**Prerequisite:** Special approval.

**Schedule Type:** Research

**Contact Hours:** 3-9 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**Attributes:** Experiential Learning Requirement

**EXSC 45040 ADVANCED STRENGTH AND CONDITIONING 3 Credit Hours**

(Cross-listed with EXPH 55040) Advanced principles in strength and conditioning. Learn and understand the energy systems, anatomy, physiology and proper lifting technique of strength, speed, agility and conditioning exercises for practical application with athletes.

**Prerequisite:** EXSC 25057 or ATTR 25057 or BSCI 11010 or BSCI 21010; and EXSC 25058 or ATTR 25058 or BSCI 11020 or BSCI 21020.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**EXSC 45065 EXERCISE TESTING 3 Credit Hours**

(Cross-listed with EXPH 55065) Lecture and laboratory experiences dealing with the administration and interpretation of exercise tests.

**Prerequisite:** ATTR 25057 or EXSC 25057 or BSCI 11010 or BSCI 21010; and ATTR 25058 or EXSC 25058 or BSCI 11020 or BSCI 21020.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 2 lecture, 2 lab

**Grade Mode:** Standard Letter

**EXSC 45070 ELECTROCARDIOGRAPHY FOR THE EXERCISE PHYSIOLOGIST 3 Credit Hours**

(Cross-listed with EXPH 55070) Designed to provide students with the knowledge base in electrocardiography. Students work on interpreting the 12-lead electrocardiogram with clinical case studies to enhance the knowledge base of the exercise specialist.

**Prerequisite:** ATTR 25057 or EXSC 25057 or BSCI 11010 or BSCI 21010; and ATTR 25058 or EXSC 25058 or BSCI 11020 or BSCI 21020.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**EXSC 45080 PHYSIOLOGY OF EXERCISE (WIC) 3 Credit Hours**

(Cross-listed with EXPH 55080) Response of the human to acute and chronic exercise with emphasis on the underlying physiological mechanisms.

**Prerequisite:** ATTR 25057 or EXSC 25057 or BSCI 11010 or BSCI 21010; and ATTR 25058 or EXSC 25058 or BSCI 11020 or BSCI 21020.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 2 lecture, 2 lab

**Grade Mode:** Standard Letter

**Attributes:** Writing Intensive Course

**EXSC 45096 INDIVIDUAL INVESTIGATION IN EXERCISE SCIENCE (ELR) 1-3 Credit Hours**

(Repeatable for a maximum of 6 credit hours) Independent study completed under the supervision of a faculty member. Written approval of supervising faculty member and school director required prior to registration.

**Prerequisite:** Special approval.

**Schedule Type:** Individual Investigation

**Contact Hours:** 3-9 other

**Grade Mode:** Standard Letter

**Attributes:** Experiential Learning Requirement

**EXSC 45480 INTERNSHIP SEMINAR IN EXERCISE SCIENCE 1 Credit Hour**

Overview of the internship possibilities that are available for the exercise science major. The American College of Sports Medicine (ACSM) certification workshops and the scope of the practice for the exercises specialist is discussed in detail.

**Prerequisite:** Special approval.

**Schedule Type:** Lecture

**Contact Hours:** 1 lecture

**Grade Mode:** Standard Letter

**EXSC 45481 SEMINAR IN EXERCISE PHYSIOLOGY 1 Credit Hour**

Provides an overview of the research possibilities and the internship possibilities that are available for the exercise science major. The Institutional Review Board, research methodology and the risks and benefits of research in the area of exercise science are discussed in detail. Also covers The American College of Sports Medicine (ACSM) certification workshops and the scope of the practice for the exercises specialist.

**Prerequisite:** Special approval.

**Schedule Type:** Lecture

**Contact Hours:** 1 lecture

**Grade Mode:** Standard Letter

**EXSC 45492 INTERNSHIP IN PHYSICAL FITNESS AND CARDIAC REHABILITATION (ELR) 1-8 Credit Hours**

(Repeatable for a maximum of 8 credit hours) Supervised experience providing practical experience in administration and operation of programs in physical fitness, health enhancement and or cardiac rehabilitation. 45 clock hours per credit hour.

**Prerequisite:** Special approval.

**Schedule Type:** Practical Experience

**Contact Hours:** 3-24 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**Attributes:** Experiential Learning Requirement

**EXSC 46095 SPECIAL TOPICS IN EXERCISE SCIENCE 1-3 Credit Hours**

(Repeatable for credit) Selected topics in exercise science dependent upon interest.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 1-3 lecture

**Grade Mode:** Standard Letter

## Health Education (HED)

**HED 11570 PERSONAL HEALTH 3 Credit Hours**

This course examines the leading causes of death and disability in the United States with an emphasis on the application of knowledge and skills to reduce risk and enhance the quality of life.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HED 11590 COMMUNITY HEALTH EDUCATION 3 Credit Hours**

Identification of community health problems and measures for control. Emphasizes principles, objectives and methods of community health education.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HED 13510 WINNING COMBINATION:HEALTH AND ATHLETES 1 Credit Hour**

An exploration of strategies for promoting healthy lifestyles for athletes. The course is reserved for varsity athletes.

**Prerequisite:** Special approval.

**Schedule Type:** Lecture

**Contact Hours:** 1 lecture

**Grade Mode:** Standard Letter

**HED 14020 MEDICAL TERMINOLOGY 3 Credit Hours**

Identification of the meaning of various roots and terms and combining forms that are components of medical words, including anatomical physiological and pathological therapeutic terminology and implications for health literacy.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HED 21030 INTRODUCTION TO HEALTH EDUCATION 3 Credit Hours**

This course introduces the student to the health education profession. Roles and responsibilities of health educators in a variety of occupational settings are described.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HED 21050 HEALTH EDUCATION THEORIES 3 Credit Hours**

Application of various attitude and behavior models to health and illness behavior in order to develop a framework for educational intervention.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HED 30000 TEACHING HEALTH TO YOUNG LEARNERS 3 Credit Hours**

Investigate current health issues relevant to children in primary grades, and identify educational strategies to increase student health knowledge, foster positive health attitudes and promote healthy behaviors.

**Prerequisite:** None.

**Schedule Type:** Lecture, Practical Experience

**Contact Hours:** 2.5 lecture, 1.5 other

**Grade Mode:** Standard Letter

**HED 32530 DRUG USE AND MISUSE 3 Credit Hours**

Introduction to the study of drug/alcohol abuse. Basic pharmacology of drug actions is reviewed. Common myths misconceptions about drug alcohol use are examined. Current drug problems and related prevention treatment issues are analyzed.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HED 32542 METHODS AND APPLICATIONS OF HEALTH EDUCATION (WIC) 5 Credit Hours**

Analysis observation, demonstration and experience in the teaching-learning process utilizing methods, materials and resources appropriate to the preparation of professional health educators. This course includes 50 field/clinical hours. Students are required to complete Bureau of Criminal Investigation and Identification (BCII) and Federal Bureau of Investigation (FBI) background checks and submit the results to authorized personnel at their assigned school/agency before the first day of the semester in which student teaching/ internship will take place.

**Prerequisite:** HED 11570.

**Schedule Type:** Lecture

**Contact Hours:** 5 lecture

**Grade Mode:** Standard Letter

**Attributes:** Writing Intensive Course

**HED 32544 HUMAN SEXUALITY 3 Credit Hours**

A study of the role and meaning of human sexuality throughout the life cycle for self and society.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HED 32565 MARKETING IN HEALTH EDUCATION 3 Credit Hours**

Examines the basic elements of marketing processes as they relate to promoting health in communities. Emphasis on application of marketing planning, concepts and practices for service providers involved with health education.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HED 32575 CONSUMER HEALTH 3 Credit Hours**

An overview of the health marketplace including health products, services, financing, promotional practices and consumer protection laws.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HED 34050 PROGRAM PLANNING AND EVALUATION IN HEALTH EDUCATION 3 Credit Hours**

Provides students with the knowledge and skills to assess health resources and needs, develop health programs to meet specific needs in particular populations and determine appropriate measures to evaluate the effectiveness of health programs.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HED 34060 SMALL GROUP PROCESS 2 Credit Hours**

(Cross-listed with CES 37800) Students learn to understand the dynamics of problem solving groups and how to become effective leaders and members. Topics include climate, goals, decision making, communication, leadership, membership. Experience-based learning combined with conceptualizing.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**HED 36048 EMERGENCY MEDICAL TRAINING 5 Credit Hours**

Basic immediate care procedures for victims of acute illnesses and accidents. Course does not conform to EMT-B National Standard Curriculum as adopted by the Ohio Department of Public Safety, Division of EMS.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 5 lecture

**Grade Mode:** Standard Letter

**HED 40093 VARIABLE TITLE WORKSHOP IN HEALTH EDUCATION AND PROMOTION 1-3 Credit Hours**

(Repeatable for credit) (Slashed with HED 50093 and 70093) Discussion of major issues in health and safety education. Content emphasis and prerequisites vary depending on workshop.

**Prerequisite:** HED 11590; and special approval.

**Schedule Type:** Workshop

**Contact Hours:** 1-3 other

**Grade Mode:** Satisfactory/Unsatisfactory

**HED 42041 HEALTH COACHING 3 Credit Hours**

(Slashed with HED 52041) Techniques of health coaching and motivational interviewing applied to health education. Individual and group approaches relative to personal, family and societal health issues.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HED 42222 ADULTING 101' SEVEN DIMENSIONS TO A HEALTHY ADULTHOOD 2 Credit Hours**

The transition from college to post-college life can be uncertain. A design for the initial post-college years can alleviate the anxiety and stress that are often experienced. This course will examine issues related to a 7 dimensional model of health-financial, environmental, emotional, intellectual, physical, social, occupational-and apply those dimensions to a post-college life design process.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**HED 42392 STUDENT TEACHING IN HEALTH EDUCATION (ELR) 9 Credit Hours**

Provides a twelve week student teaching experience. See student teaching section of catalog. Students are required to complete Bureau of Criminal Investigation and Identification (BCII) and Federal Bureau of Investigation (FBI) background checks and submit the results to authorized personnel at their assigned school/agency before the first day of the semester in which student teaching/ internship will take place.

**Prerequisite:** Eligibility for admission to student teaching and admission to advanced study; and official valid certification of child safety training, approved basic life support and ALICE training must be presented to the campus office of clinical experience or designated faculty/staff at regional campuses as prerequisite for student teaching.

**Schedule Type:** Practical Experience

**Contact Hours:** 27 other

**Grade Mode:** Satisfactory/Unsatisfactory

**Attributes:** Experiential Learning Requirement

**HED 42575 HEALTH AND LEARNING: STRATEGIES FOR STUDENTS AND TEACHERS 3 Credit Hours**

(Slashed with HED 52575) Focus on health issues/education/ environment policy and practice/community strategies to respond to threats confronting students utilizing a coordinated school/community strategy to promote health to improve academic outcomes. CPR and first aid certification required for completion of course.

**Prerequisite:** Admission to advanced study.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HED 44025 WOMEN'S HEALTH ISSUES 3 Credit Hours**

(Slashed with HED 54025) Traditional and feminist analysis of women's health issues and the health educational responses to those issues.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HED 44051 BIOBEHAVIORAL ASPECTS OF DISEASE PREVENTION IN HEALTH EDUCATION AND PROMOTION 3 Credit Hours**

The etiology and pathogenesis of major diseases are studied from a biopsychosocial perspective with an emphasis on implications for disease prevention, health promotion and behavioral intervention.

**Prerequisite:** Junior or senior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HED 44092 INTERNSHIP IN COMMUNITY HEALTH EDUCATION (ELR) 9 Credit Hours**

(Repeatable for credit) Participation for one academic semester in the health education activities of an approved agency, organization or industry.

**Prerequisite:** Senior standing; and special approval.

**Schedule Type:** Practical Experience

**Contact Hours:** 27 other

**Grade Mode:** Satisfactory/Unsatisfactory

**Attributes:** Experiential Learning Requirement

**HED 44095 SPECIAL TOPICS: HEALTH EDUCATION AND PROMOTION 1-3 Credit Hours**

(Repeatable for credit) (Slashed with HED 54095) Selected topics related to public health issues facing professionals in communities, schools, health care settings and the worksite.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 1-3 lecture

**Grade Mode:** Standard Letter

**HED 44096 INDIVIDUAL INVESTIGATION IN HEALTH EDUCATION AND PROMOTION 1-3 Credit Hours**

(Repeatable for credit) (Slashed with HED 54096 and 74096) Independent reading and/or research directed by a HED faculty member.

**Prerequisite:** Permission.

**Schedule Type:** Individual Investigation

**Contact Hours:** 1-3 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**HED 44543 ADMINISTRATION OF SCHOOL HEALTH PROGRAMS 3 Credit Hours**

(Slashed with HED 54543) Organizational design and administration of a comprehensive school health program including health services, instruction and environment. This course includes 25 field/clinical hours. CPR and first aid certification required for completion of course.

**Prerequisite:** Admission to advanced study.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter



**HED 44544 SEXUALITY EDUCATION PROGRAMS 3 Credit Hours**  
(Slashed with HED 54544) This course prepares the student to develop, implement and evaluate sexuality education programs in school and community settings.

**Prerequisite:** HED 32544.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HED 44550 DRUG ABUSE AND VIOLENCE EDUCATION PROGRAMS 3 Credit Hours**

(Slashed with HED 54550) Drug abuse and violence prevention from theoretical, philosophical, empirical and practical perspectives. Application of theories to plan, implement, and evaluate drug and violence education programs.

**Prerequisite:** HED 32530.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HED 46052 STRESS: RECOGNITION AND MANAGEMENT 2 Credit Hours**

(Slashed with HED 56052) An examination of stress, its role as a predisposing factor for various illnesses and diseases, types of stressors, the body's reaction to stress, and techniques for recognizing, preventing and reducing stress.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**HED 46057 ADVANCED HUMAN SEXUALITY 3 Credit Hours**

(Slashed with HED 56057) Selected aspects of human sexuality; history, cross-cultural perspectives, medical/surgical conditions and sex therapy and counseling.

**Prerequisite:** HED 32544.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HED 46070 HEALTH RELATED ASPECTS OF AGING 3 Credit Hours**

(Slashed with HED 56070) Theories of biological aging and identification of major health hazards, age-related diseases and age changes, their prevention and control. The health care delivery system for the elderly.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HED 47070 AIDS: ISSUES, EDUCATION AND PREVENTION 3 Credit Hours**

(Slashed with HED 57070) This course provides an extensive overview of the human immunodeficiency virus epidemic as it has developed and exists today. A particular emphasis will be given to aids education and prevention issues and strategies.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HED 47091 CURRENT ISSUES IN HEALTH EDUCATION AND PROMOTION 1-3 Credit Hours**

(Repeatable for credit) (Slashed with HED 57091 and 77091) Public health issues facing professionals in communities, schools, health care settings and the worksite.

**Prerequisite:** Junior or senior standing.

**Schedule Type:** Seminar

**Contact Hours:** 1-3 other

**Grade Mode:** Standard Letter

**HED 48092 FIELD EXPERIENCE IN HEALTH EDUCATION AND PROMOTION (ELR) 1-3 Credit Hours**

(Repeatable for credit) (Slashed with HED 58092 and 78092) Observation and participation in educational and promotional activities of a public health agency, school or health care facility. Joint university agency supervision.

**Prerequisite:** Permission.

**Schedule Type:** Field Experience

**Contact Hours:** 3-9 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**Attributes:** Experiential Learning Requirement

**HED 49525 INQUIRY SEMINAR INTO PROFESSIONAL PRACTICE 3 Credit Hours**

Interdisciplinary inquiry into teaching as a professional practice in health education; emphasis on teacher as disciplined investigator. Utilization of teaching and learning technology.

**Prerequisite:** Admission to advanced study.

**Pre/corequisite:** HED 42392.

**Schedule Type:** Seminar

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**HED 50093 VARIABLE TITLE WORKSHOP IN HEALTH EDUCATION AND PROMOTION 1-3 Credit Hours**

(Repeatable for credit) (Slashed with HED 40093 and 70093) Discussion of major issues in health and safety education. Content emphasis vary depending on workshop.

**Prerequisite:** Graduate standing.

**Schedule Type:** Workshop

**Contact Hours:** 1-3 other

**Grade Mode:** Satisfactory/Unsatisfactory

**HED 52041 HEALTH COACHING 3 Credit Hours**

(Slashed with HED 42041) Techniques of health coaching and motivational interviewing applied to health education. Individual and group approaches relative to personal, family and societal health issues.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HED 52575 HEALTH AND LEARNING: STRATEGIES FOR STUDENTS AND TEACHERS 3 Credit Hours**

(Slashed with HED 42575) Focus on health issues/education/environment policy and practice/community strategies to respond to threats confronting students, utilizing a coordinated school community strategy to promote health and improve academic outcomes. CPR first aid certification required for completion of course.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HED 54025 WOMEN'S HEALTH ISSUES 3 Credit Hours**

(Slashed with HED 44025) Traditional and feminist analysis of women's health issues and the health educational responses to those issues.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HED 54051 BIOBEHAVIORAL ASPECTS OF DISEASE PREVENTION IN HEALTH EDUCATION AND PROMOTION 3 Credit Hours**

(Slashed with HED 44051) The etiology and pathogenesis of major diseases are studied from a biopsychosocial perspective with an emphasis on implications for disease prevention, health promotion and behavioral intervention.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HED 54095 SPECIAL TOPICS:HEALTH EDUCATION AND PROMOTION 1-3 Credit Hours**

(Repeatable for credit) (Slashed with HED 44095) Selected topics related to public health issues facing professionals in communities, schools, health care settings and the worksite.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 1-3 lecture

**Grade Mode:** Standard Letter

**HED 54096 INDIVIDUAL INVESTIGATION IN HEALTH EDUCATION AND PROMOTION 1-3 Credit Hours**

(Repeatable for credit) (Slashed with HED 44096 and 74096) Independent reading and/or research directed by a graduate faculty member.

Students are required to complete Bureau of Criminal Investigation and Identification (BCII) and Federal Bureau of Investigation (FBI) background checks and submit the results to authorized personnel at their assigned school/agency before the first day of the semester in which student teaching/ internship will take place.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Individual Investigation

**Contact Hours:** 1-3 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**HED 54543 ADMINISTRATION OF SCHOOL HEALTH PROGRAMS 3 Credit Hours**

(Slashed with HED 44543) Organizational design and administration of a comprehensive school health program including health services, instruction and environment. This course includes 25 field/clinical hours. CPR and first aid certification required for completion of course.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HED 54544 SEXUALITY EDUCATION PROGRAMS 3 Credit Hours**

(Slashed with HED 44544) This course prepares the student to develop, implement and evaluate sexuality education programs in school and community settings.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HED 54550 DRUG ABUSE AND VIOLENCE EDUCATION PROGRAMS 3 Credit Hours**

(Slashed with HED 44550) Drug abuse and violence prevention from theoretical, philosophical, empirical, and practical perspectives. Application of theories to plan, implement, and evaluate drug and violence education programs.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HED 56052 STRESS: RECOGNITION AND MANAGEMENT 2 Credit Hours**

(Slashed with HED 46052) An examination of stress, its role as a predisposing factor for various illnesses and diseases, types of stressors, the body's reaction to stress, and techniques for recognizing, preventing and reducing stress.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**HED 56057 ADVANCED HUMAN SEXUALITY 3 Credit Hours**

(Slashed with HED 46057) Selected aspects of human sexuality: history, cross-cultural perspectives, medical/surgical therapy and counseling.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HED 56070 HEALTH RELATED ASPECTS OF AGING 3 Credit Hours**

(Slashed with HED 46070) Theories of biological aging and identification of major health hazards, age-related diseases and age changes, their prevention and control. The health care delivery system for the elderly.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HED 57070 AIDS:ISSUES, EDUCATION AND PREVENTION 3 Credit Hours**

(Slashed with HED 47070) This course provides an extensive overview of the human immunodeficiency virus epidemic as it has developed and exists today. A particular emphasis will be given to AIDS education and prevention issues and strategies.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HED 57091 CURRENT ISSUES IN HEALTH EDUCATION AND PROMOTION 1-3 Credit Hours**

(Repeatable for credit) (Slashed with HED 47091 and 77091) Public health issues facing professionals in communities, schools, health care settings and the worksite.

**Prerequisite:** Graduate standing.

**Schedule Type:** Seminar

**Contact Hours:** 1-3 other

**Grade Mode:** Standard Letter

**HED 58092 FIELD EXPERIENCE IN HEALTH EDUCATION AND PROMOTION 1-3 Credit Hours**

(Repeatable for credit) (Slashed with HED 48092 and 78092) Observation and participation in educational and promotional activities of a public health agency, school, or health care facility joint university-agency supervision. Students are required to complete Bureau of Criminal Investigation and Identification (BCII) and Federal Bureau of Investigation (FBI) background checks and submit the results to authorized personnel at their assigned school/agency before the first day of the semester in which student teaching/ internship will take place.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Field Experience

**Contact Hours:** 3-9 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**HED 60199 THESIS I 2-6 Credit Hours**

Thesis students must register for a total of 6 hours, 2 to 6 hours in a single semester distributed over several semesters if desired.

**Prerequisite:** Graduate standing.

**Schedule Type:** Masters Thesis

**Contact Hours:** 2-6 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**HED 60299 THESIS II 2 Credit Hours**

Thesis students must continue registration each semester until all degree requirements are met.

**Prerequisite:** HED 60199; and graduate standing.

**Schedule Type:** Masters Thesis

**Contact Hours:** 2 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**HED 64030 INTRODUCTION TO RESEARCH AND DATA ANALYSIS IN HEALTH EDUCATION AND PROMOTION 3 Credit Hours**

Introduction of research methods in the field of health education and health promotion. Includes basic knowledge and skills in research design and concepts of descriptive and inferential statistics.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HED 64050 HEALTH BEHAVIOR 3 Credit Hours**

(Slashed with HED 84050) Analysis of a broad range of theoretical and empirical models of health and illness behavior.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HED 64055 NEEDS ASSESSMENT AND EVALUATION IN HEALTH PROMOTION 3 Credit Hours**

(Slashed with HED 84055) Students will assess individual and community needs for health promotion programs based on multiple sources of health data. Students will develop a rational plan to meet identified needs.

**Prerequisite:** HED 64061 and HED 64050 and HED 64063 and HED 64059; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HED 64057 PROGRAM PLANNING AND IMPLEMENTATION IN HEALTH PROMOTION 3 Credit Hours**

(Slashed with HED 84057) Students will develop, implement, and evaluate a health education and promotion program plan specific to a target audience and health issue.

**Prerequisite:** HED 64050 and HED 64055 and HED 64061 and HED 64063; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HED 64058 DEVELOPMENTAL APPROACHES IN TEACHING SCHOOL HEALTH EDUCATION 3 Credit Hours**

(Slashed with HED 84058) Develop and implement developmentally appropriate health education unit plans, methods, techniques, and strategies with K-12 school populations.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HED 64059 COMMUNICATION AND MARKETING IN HEALTH EDUCATION AND PROMOTION 3 Credit Hours**

(Slashed with HED 84059) Introduction to the theory and practice of planning, implementing, and evaluating marketing and communication programs in health promotion.

**Prerequisite:** HED 64050 and HED 64061; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HED 64061 FOUNDATIONS OF HEALTH EDUCATION AND PROMOTION 3 Credit Hours**

(Slashed with HED 84061) Historical, sociological and philosophical factors that have influenced definitions and the practice of health education and promotion are studied. Professional associations/ leadership, government initiatives, standards of practice and accreditations are examined.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HED 64062 ADMINISTRATION AND GRANT WRITING IN HEALTH PROMOTION 3 Credit Hours**

(Slashed with HED 84062) Basic concepts in the administration of health education promotion programs and grant writing. Coordination of program services, consultative relationships, management of human and fiscal resources, and organizational leadership are addressed as well as grant writing skills.

**Prerequisite:** HED 64061 and Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HED 64063 STRATEGIES IN HEALTH EDUCATION AND PROMOTION 3 Credit Hours**

(Slashed with HED 84063) Health education and promotion methods, techniques and strategies are presented for a variety of audiences, learning environments and intervention levels.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HED 64070 WORKSITE HEALTH PROMOTION 3 Credit Hours**  
(Slashed with HED 84070) Program planning and evaluation of health promotion programs in business and industry with an emphasis on the role of health educators.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HED 64080 ADVOCACY AND POLICY ISSUES IN HEALTH EDUCATION AND PROMOTION 3 Credit Hours**

(Slashed with HED 84080) Emphasizes the advocacy role of health educators. Includes use of research results to develop, analyze and influence health policy.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HED 64094 COLLEGE TEACHING OF HEALTH EDUCATION AND PROMOTION 2 Credit Hours**

(Repeatable for credit) (Cross-listed with HED 84094) Guided experiences in teaching selected undergraduate courses.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Practical Experience

**Contact Hours:** 2 other

**Grade Mode:** Satisfactory/Unsatisfactory

**HED 64096 INDIVIDUAL INVESTIGATION: READINGS IN HEALTH EDUCATION AND PROMOTION 1-3 Credit Hours**

(Slashed with HED 84096) Independent study of approved topics in health and safety education related to the student's special interests. Adviser's permission required to repeat registration one time.

**Prerequisite:** Health Education or Public Health major; and graduate standing; and special approval.

**Schedule Type:** Individual Investigation

**Contact Hours:** 3-9 other

**Grade Mode:** Standard Letter-S/U

**HED 64098 PROJECT IN HEALTH EDUCATION AND PROMOTION 1-3 Credit Hours**

(Repeatable for credit) (Slashed with HED 84098) Research or individual investigation for master's level graduate students.

**Prerequisite:** Grading standing; and special approval.

**Schedule Type:** Research

**Contact Hours:** 1-3 other

**Grade Mode:** Standard Letter

**HED 70093 VARIABLE TITLE WORKSHOP IN HEALTH EDUCATION AND PROMOTION 1-3 Credit Hours**

(Repeatable for credit) (Slashed with HED 40093 and 50093) Discussion of major issues in health and safety education. Content emphasis and prerequisites vary depending on workshop.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Workshop

**Contact Hours:** 1-3 other

**Grade Mode:** Satisfactory/Unsatisfactory

**HED 74096 INDIVIDUAL INVESTIGATION IN HEALTH EDUCATION AND PROMOTION 1-3 Credit Hours**

(Repeatable for credit) (Slashed with HED 44096 and 54096) Independent reading and/or research directed by a graduate faculty member.

Students are required to complete Bureau of Criminal Investigation and Identification (BCII) and Federal Bureau of Investigation (FBI) background checks and submit the results to authorized personnel at their assigned school/agency before the first day of the semester in which student teaching/ internship will take place.

**Prerequisite:** Doctoral standing; and special approval.

**Schedule Type:** Individual Investigation

**Contact Hours:** 1-3 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**HED 77091 CURRENT ISSUES IN HEALTH EDUCATION AND PROMOTION 1-3 Credit Hours**

(Repeatable for credit) (Slashed with HED 47091 and 57091) Public health issues facing professionals in communities, schools, health care settings and the worksite.

**Prerequisite:** Graduate standing.

**Schedule Type:** Seminar

**Contact Hours:** 1-3 other

**Grade Mode:** Standard Letter

**HED 78092 FIELD EXPERIENCE IN HEALTH EDUCATION AND PROMOTION 1-3 Credit Hours**

(Repeatable for credit) (Slashed with HED 48092 and 58092) Observation and participation in educational and promotional activities of a public health agency, school or health care facility joint university-agency supervision. Students are required to complete Bureau of Criminal Investigation and Identification (BCII) and Federal Bureau of Investigation (FBI) background checks and submit the results to authorized personnel at their assigned school/agency before the first day of the semester in which student teaching/ internship will take place.

**Prerequisite:** Doctoral standing; and special approval.

**Schedule Type:** Field Experience

**Contact Hours:** 3-9 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**HED 80199 DISSERTATION I 15 Credit Hours**

(Repeatable for credit) Registration for two semesters required, first semester dissertation work begins and continues until completion of 30 hours.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Dissertation

**Contact Hours:** 15 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**HED 80292 PRACTICUM IN HEALTH EDUCATION AND PROMOTION 3 Credit Hours**

(Repeatable for credit) In this course, students obtain permission to work with an individual faculty member on research, community projects, or other professional activities in various health education settings (school, community, medical care, worksite). Assignments are individualized to meet the needs of the practicum experience.

**Prerequisite:** Doctoral standing; and special approval.

**Schedule Type:** Practical Experience

**Contact Hours:** 9 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**HED 80299 DISSERTATION II 15 Credit Hours**

(Repeatable for credit) Continuing registration required of doctoral students who have completed the initial 30 hours of dissertation and continuing until degree requirements are met.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Dissertation

**Contact Hours:** 15 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**HED 81100 RESIDENCY SEMINAR: SYNTHESIS OF LITERATURE IN HEALTH EDUCATION AND PROMOTION 3 Credit Hours**

Exploration of philosophical, theoretical and empirical issues in health education and promotion. Students synthesize courses, research and practice in preparation for comprehensive examinations.

**Prerequisite:** Doctoral standing; and special approval of instructor.

**Schedule Type:** Seminar

**Contact Hours:** 3 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**HED 81150 SEMINAR: PROFESSIONAL DEVELOPMENT IN HEALTH EDUCATION AND PROMOTION 3 Credit Hours**

Focuses on the process, practice and documentation of professional development in health education and promotion in the areas of instruction, program development, research and evaluation.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Satisfactory/Unsatisfactory

**HED 81200 RESIDENCY SEMINAR: RESEARCH PROPOSAL, DEVELOPMENT AND PRESENTATION 3 Credit Hours**

Review of the role of research and scholarly pursuits in the professorate, the professional health education literature, and in the development and dissemination of a range of scholarly products. Identification of requisite elements of a dissertation in health education and promotion. Refinement of a professional vita, updating of doctoral program prospectus, specification of dissertation topic, identification of potential dissertation committee members, development and presentation of draft dissertation proposal.

**Prerequisite:** Doctoral standing; and special approval of instructor.

**Schedule Type:** Seminar

**Contact Hours:** 3 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**HED 81300 HEALTH EDUCATION PRACTICE 3 Credit Hours**

Investigation of various health education settings including analysis of agency programming efforts and comparison to evidence-based practice. Application of community assessment, socioecological model, and community-based participatory research principles. Analysis of how health education theory and research are implemented in various practice settings.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HED 81400 RESEARCH DISSEMINATION AND TECHNICAL WRITING IN HEALTH EDUCATION AND PROMOTION 3 Credit Hours**

Examination and practice of technical writing for research proposals, technical reports, and journal publications in health education and promotion. Other methods of disseminating research such as preparation and submission of conference presentation applications and writing as part of consultative relationships with community agencies is explored.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HED 81450 ADVANCED PROGRAM EVALUATION IN HEALTH EDUCATION AND PROMOTION 3 Credit Hours**

A review of evaluation methods used in health education programs. Emphasis is placed on data collection procedures, linking program activities to outcomes, participant attrition and reporting of the results.

**Prerequisite:** HED 64055 and HED 64057; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HED 81550 APPLIED THEORY IN HEALTH EDUCATION RESEARCH AND PRACTICE 3 Credit Hours**

Examination of theory/models/hypotheses applied to specific health behaviors. Emphasis on operationalization of theoretical constructs.

**Prerequisite:** HED 64050 or HED 74050.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HED 84030 INTRODUCTION TO RESEARCH AND DATA ANALYSIS IN HEALTH EDUCATION AND PROMOTION 3 Credit Hours**

Introduction of research methods in the field of health education and health promotion. Includes basic knowledge and skills in research design and concepts of descriptive and inferential statistics.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HED 84050 HEALTH BEHAVIOR 3 Credit Hours**

(Slashed with HED 64050) Analysis of a broad range of theoretical and empirical models of health and illness behavior.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HED 84051 BIOBEHAVIORAL ASPECTS OF DISEASE PREVENTION IN HEALTH EDUCATION AND PROMOTION 3 Credit Hours**

The etiology and pathogenesis of major diseases are studied from a biopsychosocial perspective with an emphasis on implications for disease prevention, health promotion and behavioral intervention.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter



**HED 84055 NEEDS ASSESSMENT AND EVALUATION IN HEALTH PROMOTION 3 Credit Hours**

(Slashed with HED 64055) Students will assess individual and community needs for health promotion programs based on multiple sources of health data. Students will develop a rational plan to meet identified needs.

**Prerequisite:** HED 64050 or 84050; and HED 64059 or 84059; and HED 64061 or 84061; and HED 64063 or 84063; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HED 84057 PROGRAM PLANNING AND IMPLEMENTATION IN HEALTH PROMOTION 3 Credit Hours**

(Slashed with HED 64057) Students will develop, implement, and evaluate a health education and promotion program plan specific to a target audience and health issue.

**Prerequisite:** HED 64050 or 84050; and HED 64055 or 84055; and HED 64061 or 84061; and HED 64063 or 84063; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HED 84058 DEVELOPMENTAL APPROACHES IN TEACHING SCHOOL HEALTH EDUCATION 3 Credit Hours**

(Slashed with HED 64058) Develop and implement developmentally appropriate health education unit plans, methods, techniques, and strategies with K12 school populations.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HED 84059 COMMUNICATION AND MARKETING IN HEALTH EDUCATION AND PROMOTION 3 Credit Hours**

(Slashed with HED 64059) Introduction to the theory and practice of planning, implementing, and evaluating marketing and communication programs in health promotion.

**Prerequisite:** HED 64050 or 84050; and HED 64061 or 84061; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HED 84061 FOUNDATIONS OF HEALTH EDUCATION AND PROMOTION 3 Credit Hours**

(Slashed with HED 64061) Historical, sociological and philosophical factors that have influenced definitions and the practice of health education and promotion are studied. Professional associations/ leadership, government initiatives, standards of practice and accreditations are examined.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HED 84062 ADMINISTRATION AND GRANT WRITING IN HEALTH PROMOTION 3 Credit Hours**

(Slashed with HED 64062) Basic concepts in the administration of health education promotion programs and grant writing. Coordination of program services, consultative relationships, management of human and fiscal resources, and organizational leadership are addressed as well as grant writing skills.

**Prerequisite:** HED 64061 or 84061; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HED 84063 STRATEGIES IN HEALTH EDUCATION AND PROMOTION 3 Credit Hours**

(Slashed with HED 64063) Health education and promotion methods, techniques and strategies are presented for a variety of audiences, learning environments and intervention levels.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HED 84066 HEALTH IN THE DEVELOPING NATIONS 3 Credit Hours**

Overview of national development, review of problems process and strategy of health development.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HED 84070 WORKSITE HEALTH PROMOTION 3 Credit Hours**

(Slashed with HED 64070) Program planning and evaluation of health promotion programs in business and industry with an emphasis on the role of health educators.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HED 84080 ADVOCACY AND POLICY ISSUES IN HEALTH EDUCATION AND PROMOTION 3 Credit Hours**

(Slashed with HED 64080) Emphasizes the advocacy role of health educators. Includes use of research results to develop analyze and influence health policy.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HED 84094 COLLEGE TEACHING OF HEALTH EDUCATION AND PROMOTION 2 Credit Hours**

(Repeatable for credit) (Slashed with HED 64094) Guided experiences in teaching selected undergraduate courses.

**Prerequisite:** Doctoral standing; and special approval.

**Schedule Type:** Practical Experience

**Contact Hours:** 2 other

**Grade Mode:** Satisfactory/Unsatisfactory

**HED 84096 INDIVIDUAL INVESTIGATION: READINGS IN HEALTH EDUCATION AND PROMOTION 1-3 Credit Hours**

(Slashed with HED 64096) Independent study of approved topics in health and safety education related to the student's special interests. Adviser's permission required to repeat registration one time.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Individual Investigation

**Contact Hours:** 3-9 other

**Grade Mode:** Standard Letter-S/U

**HED 84098 PROJECT IN HEALTH EDUCATION AND PROMOTION 1-3 Credit Hours**

(Repeatable for credit) (Slashed with HED 64098) Research or individual investigation for doctoral level graduate students.

**Prerequisite:** Doctoral standing and special approval.

**Schedule Type:** Research

**Contact Hours:** 1-3 other

**Grade Mode:** Standard Letter

## Integrated Health Studies (IHS)

**IHS 10000 CAREERS IN HEALTH SCIENCES AND HUMAN SERVICES 3 Credit Hours**

This course presents the diverse career options in the fields of health sciences and human services. Academic preparation and credentialing for professions will be included.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**IHS 40091 SEMINAR FOR PRACTICUM IN INTEGRATED HEALTH STUDIES 2 Credit Hours**

(Repeatable for credit) Seminar focuses on applying concepts from previous educational experiences to the practicum work experience.

**Prerequisite:** IHS 10000.

**Corequisite:** IHS 44092.

**Schedule Type:** Seminar

**Contact Hours:** 2 other

**Grade Mode:** Standard Letter

**IHS 44010 RESEARCH DESIGN AND STATISTICAL METHODS IN THE HEALTH PROFESSIONS 3 Credit Hours**

Fundamental concepts and procedures for systematic collection, analysis and interpretation of qualitative and quantitative data in health related fields includes group and single-subject designs and use of parametric and nonparametric statistics.

**Prerequisite:** PSYC 21621.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**IHS 44091 PROFESSIONAL SEMINAR IN INTEGRATED HEALTH STUDIES (WIC) 3 Credit Hours**

(Repeatable for credit) This course presents and integrates the role of scientists, practitioners and administrators in the health care and human service professions as they attempt to meet the needs of the individual in diverse environments. Current issues will be addressed. 400 hours observation/work experience in health/human service-related fields required prior to registration for this course.

**Prerequisite:** Senior standing; and special approval.

**Schedule Type:** Seminar

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**Attributes:** Writing Intensive Course

**IHS 44092 PRACTICUM IN INTEGRATED HEALTH STUDIES (ELR) 3-10 Credit Hours**

(Repeatable for credit) Practicum focuses on providing supervised practical experience in a health science, health care and human services organization which allows students to apply theoretical knowledge and skills learned in their coursework.

**Prerequisite:** Integrated health studies majors; and senior standing; and special approval.

**Corequisite:** IHS 40091.

**Schedule Type:** Practical Experience

**Contact Hours:** 9-30 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**Attributes:** Experiential Learning Requirement

**IHS 44095 SPECIAL TOPICS IN INTEGRATED HEALTH STUDIES 1-3 Credit Hours**

(Repeatable for credit) Selected topics in integrated health dependent upon interest.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 1-3 lecture

**Grade Mode:** Standard Letter

**IHS 44096 INDIVIDUAL INVESTIGATION IN INTEGRATED HEALTH 1-3 Credit Hours**

(Repeatable for credit) Independent study completed under the supervision of a faculty member. Written approval of supervising faculty member and school director required prior to registration.

**Prerequisite:** Special approval.

**Schedule Type:** Individual Investigation

**Contact Hours:** 3-9 other

**Grade Mode:** Standard Letter-IP

## Nutrition (NUTR)

**NUTR 10011 NUTRITIONAL OUTREACH: A HOW-TO FOR LIFE-LONG HEALTHY EATING 1 Credit Hour**

Teaches basic nutrition information for healthy eating, including the important nutritional aspects of cooking, shopping, dining and disease prevention related to dietary intake.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 1 lecture

**Grade Mode:** Standard Letter

**NUTR 23012 INTRODUCTORY FOOD SCIENCE 3 Credit Hours**  
(Cross-listed with HM 23012) Principles of food preparation and quality evaluation, with an emphasis on food science concepts, nutrition, food consumption trends and government regulation.

**Prerequisite:** NUTR 23511.

**Schedule Type:** Laboratory, Lecture, Combined Lecture and Lab

**Contact Hours:** 2 lecture, 3 lab

**Grade Mode:** Standard Letter

**NUTR 23112 INTRODUCTION TO THE PROFESSION: NUTRITION AND DIETETICS 1 Credit Hour**

Discusses academic requirements for the Nutrition major, the history of the nutrition profession as well as current credentialing and licensing requirements. Explores the opportunities within the field of dietetics.

Teaches methods to document academic, personal and professional skills.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 1 lecture

**Grade Mode:** Standard Letter

**NUTR 23510 QUANTITY FOOD PRODUCTION, SERVICE AND SAFETY 3 Credit Hours**

(Cross-listed with HM 23510) The application of management principles in quantity food production and service systems, including safety and sanitation; production forecasting and management; distribution; and service, commercial equipment and physical facilities. Introduction to inventory, recipe standardization and considerations of nutrition, quality and sustainability in quantity production.

**Prerequisite:** NUTR 23112.

**Schedule Type:** Laboratory, Lecture, Combined Lecture and Lab

**Contact Hours:** 2 lecture, 3 lab

**Grade Mode:** Standard Letter

**NUTR 23511 SCIENCE OF HUMAN NUTRITION (KBS) 3 Credit Hours**

Basic concepts and principles in the science of human nutrition, energy balance and weight control, individual nutrient needs, diet selection, nutrition related metabolism and physiological functions, nutritional diseases and current human nutrition controversies.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Kent Core Basic Sciences, TAG Health

**NUTR 33512 INTERMEDIATE NUTRITION SCIENCE 3 Credit Hours**

Functions, sources, utilization and interactions of essential nutrients and associated physiology. Principles of designing a healthy diet using dietary standards and guidelines while considering nutrient needs of different populations.

**Pre/corequisite:** CHEM 20481 or CHEM 30481.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**NUTR 33522 INTRODUCTION TO NUTRITION ASSESSMENT 3 Credit Hours**

Application of nutrition principles, including nutrition-focused physical assessment, dietary intake assessment, nutrition surveys, introduction to medical records, nutrition interviewing, dietary standards and food exchange lists.

**Prerequisite:** NUTR 23511 and PSYC 11762 and SOC 12050; and nutrition major.

**Schedule Type:** Laboratory, Lecture, Combined Lecture and Lab

**Contact Hours:** 2 lecture, 2 lab

**Grade Mode:** Standard Letter

**NUTR 33532 BUSINESS AND MANAGEMENT OF NUTRITION SERVICES 3 Credit Hours**

Course explores the business management side of dietetics. Covers application of management theories, from dietetic programs and services to budgeting, billing and coding, in addition to quality improvement in dietetics programs and departments.

**Prerequisite:** NUTR 23511.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**NUTR 35319 NUTRITION, HEALTH AND SOCIETY 3 Credit Hours**

Course explores the role of environment, food, nutrition and lifestyle choices in promoting health and preventing disease. Focus is on the fundamentals of public policy, including legislative and regulatory basis of nutrition and dietetics practices.

**Prerequisite:** NUTR 23511.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**NUTR 41095 SPECIAL TOPICS IN NUTRITION 1-4 Credit Hours**

(Repeatable for credit)(Slashed with NUTR 51095) Discussion of a major topic within a specific field in nutrition and dietetics. Topic varies per course offering.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 1-4 lecture

**Grade Mode:** Standard Letter

**NUTR 41096 INDIVIDUAL INVESTIGATION IN NUTRITION 1-3 Credit Hours**

(Repeatable for credit) Students undertake an independent study in an area of nutrition and dietetics that is not covered by a regular course offering, with the guidance of a Kent State faculty member.

**Prerequisite:** Special approval.

**Schedule Type:** Individual Investigation

**Contact Hours:** 1-3 other

**Grade Mode:** Standard Letter

**NUTR 43013 RESEARCH AND STATISTICAL METHODS IN NUTRITION AND DIETETICS (WIC) 3 Credit Hours**

(Slashed with NUTR 53013) Student gain experience in research methods related to nutrition and dietetics, principles of experimental design, data analysis and techniques of scientific writing.

**Prerequisite:** NUTR 33512.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Writing Intensive Course

**NUTR 43016 WORLD FOOD CUSTOMS AND NUTRITION 3 Credit Hours**

(Slashed with NUTR 53016) Understanding the interrelationship between food and agricultural practices of racial, ethnic and religious populations globally.

**Prerequisite:** NUTR 23511 and SOC 12050.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**NUTR 43030 FOOD SERVICE SYSTEMS MANAGEMENT 3 Credit Hours**

(Slashed with NUTR 53030)(Cross-listed with HM 43030 and HM 53030) Food service systems management, including systems theory; menu planning and evaluation; procurement; food production systems; sustainability; layout and design basics. Management concepts in non-commercial food service, including financial control, marketing, quality, management, leadership and human resources.

**Prerequisite:** HM 23012 or NUTR 23012; and HM 23510 or NUTR 23510.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**NUTR 43511 MEDICAL NUTRITION THERAPY I 3 Credit Hours**

(Slashed with NUTR 53511) Exploration of the nutrition care process, including documentation, standardized language, nutrition assessment, interpretation of laboratory values and individualized patient care and planning for disease and nutrition needs. Students engage in case studies and nutrition assessment exercises.

**Prerequisite:** BSCI 30130 and CHEM 30284 and NUTR 33512.

**Schedule Type:** Laboratory, Lecture, Combined Lecture and Lab

**Contact Hours:** 2 lecture, 2 lab

**Grade Mode:** Standard Letter

**NUTR 43512 MACRONUTRIENT NUTRITIONAL BIOCHEMISTRY 3 Credit Hours**

(Slashed with NUTR 53512) Course explores the mechanisms through which the macronutrients meet biological needs and how these related to applied human nutrition.

**Prerequisite:** BSCI 30130 and CHEM 30284 and NUTR 33512.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**NUTR 43513 MICRONUTRIENT NUTRITIONAL BIOCHEMISTRY 3 Credit Hours**

(Slashed with NUTR 53513) Course explores the mechanisms through which micronutrients meet human biological needs in the relationship to underlying applied human nutrition.

**Prerequisite:** BSCI 30130 and CHEM 30284 and NUTR 33512.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**NUTR 43514 MEDICAL NUTRITION THERAPY II 3 Credit Hours**

(Slashed with NUTR 53514) Continued exploration of the nutrition care process, including relevant documentation, standardized language, nutrition assessment, interpretation of laboratory values and individualized patient care and planning for disease and nutritional needs. Students engage in case studies and nutritional assessments.

**Prerequisite:** NUTR 43511.

**Schedule Type:** Laboratory, Lecture, Combined Lecture and Lab

**Contact Hours:** 2 lecture, 2 lab

**Grade Mode:** Standard Letter

**NUTR 43515 COMMUNITY NUTRITION (ELR) 3 Credit Hours**

(Slashed with NUTR 53515) Introduction to nutrition problems and practices in the community. Principles and techniques of effective education, learning and behavior change theories and techniques. Includes an experiential laboratory component with a focus on planning, implementation, evaluation and outcomes in nutrition education, as well as nutrition communication, programming and counseling techniques.

**Prerequisite:** NUTR 33512 and NUTR 33522 and NUTR 33532.

**Schedule Type:** Laboratory, Lecture

**Contact Hours:** 2 lecture, 2 lab

**Grade Mode:** Standard Letter

**Attributes:** Experiential Learning Requirement

**NUTR 43518 LIFECYCLE NUTRITION 3 Credit Hours**

(Slashed with NUTR 53518) Explores the nutrition needs through growth, development and aging. Focus is on nutritional needs and issues during conception, pregnancy, lactation, infancy, childhood, adolescence, adulthood and older adulthood.

**Prerequisite:** NUTR 33512.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**NUTR 43520 SPORTS NUTRITION 3 Credit Hours**

(Slashed with NUTR 53520) Course focuses on the relationship between nutrition and exercise and the effect of nutrition on sports performance.

**Prerequisite:** NUTR 33512.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**NUTR 43521 FOOD CHOICES FOR PRESCRIBED DIETARY MODIFICATION 2 Credit Hours**

(Slashed with NUTR 53521) Adapting adequate normal diet in terms of food choices to accommodate prescribed food restriction or bodily dysfunction.

**Prerequisite:** NUTR 23511; course is not open to students in the nutrition major.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**NUTR 43522 INTEGRATIVE AND FUNCTIONAL NUTRITION 2 Credit Hours**

(Slashed with NUTR 53522) Introduces the foundations of integrative and functional medicine as it relates to nutrition. Includes personalized nutrition, nutrigenomics, complementary and alternative therapies, nutraceuticals and functional foods, in addition to the interaction of food on supplement and drug efficacy.

**Prerequisite:** NUTR 33512.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**NUTR 43523 NUTRITION AND DIETETICS: PROFESSIONAL PRACTICE 1 Credit Hour**

Development of professional awareness. Evaluation of professional growth and formulation of plans for continued growth.

**Prerequisite:** Nutrition major; and senior standing.

**Schedule Type:** Lecture

**Contact Hours:** 1 lecture

**Grade Mode:** Standard Letter

**NUTR 43532 METHODS AND EXPERIENCES IN NUTRITION OUTREACH 3 Credit Hours**

(Slashed with NUTR 53532) Students learn methods for development and evaluation techniques used for nutrition outreach programming; the role of community nutrition education in public health; and the impact of nutrition programming on disease prevention and management. Students engage in service learning opportunities in community nutrition education.

**Prerequisite:** Special approval.

**Schedule Type:** Field Experience, Lecture

**Contact Hours:** 2.5 lecture, .5 other

**Grade Mode:** Standard Letter

**NUTR 45092 PRACTICUM IN NUTRITION (ELR) 1-3 Credit Hours**

Application of education in pre-professional experience in clinical, community and nutrition foodservice environments. Combination of nutrition experiences throughout the semester.

**Prerequisite:** Special approval.

**Schedule Type:** Practical Experience

**Contact Hours:** 3-9 other

**Grade Mode:** Standard Letter

**Attributes:** Experiential Learning Requirement

**NUTR 45098 RESEARCH IN NUTRITION (ELR) 1-3 Credit Hours**

Students engage in research under the supervision of a nutrition faculty member. Students may develop a research idea or work on faculty-led research.

**Prerequisite:** Special approval.

**Schedule Type:** Research

**Contact Hours:** 3-9 other

**Grade Mode:** Standard Letter

**Attributes:** Experiential Learning Requirement

**NUTR 51095 SPECIAL TOPICS IN NUTRITION 1-4 Credit Hours**

(Repeatable for credit)(Slashed with NUTR 41095) Discussion of a major topic within a specific field in nutrition and dietetics. Topic varies per course offering.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 1-4 lecture

**Grade Mode:** Standard Letter

**NUTR 51096 INDIVIDUAL INVESTIGATION IN NUTRITION 1-3 Credit Hours**

(Repeatable for credit) Students undertake an independent study in an area of nutrition and dietetics that is not covered by a regular course offering, with the guidance of a Kent State faculty member.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Individual Investigation

**Contact Hours:** 1-3 other

**Grade Mode:** Standard Letter

**NUTR 53013 RESEARCH AND STATISTICAL METHODS IN NUTRITION 3 Credit Hours**

(Slashed with NUTR 43013) Students gain experience in research methods related to nutrition and dietetics, principles of experimental design, data analysis and techniques of scientific writing.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**NUTR 53016 WORLD FOOD CUSTOMS AND NUTRITION 3 Credit Hours**

(Slashed with NUTR 43016) Understanding the interrelationship between food and agricultural practices of racial, ethnic and religious populations globally.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**NUTR 53030 FOOD SERVICE SYSTEMS MANAGEMENT 3 Credit Hours**

(Slashed with NUTR 43030)(Cross-listed with HM 43030 and HM 53030) Food service systems management, including systems theory; menu planning and evaluation; procurement; food production systems; sustainability; layout and design basics. Management concepts in non-commercial food service, including financial control, marketing, quality, management, leadership and human resources.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**NUTR 53511 MEDICAL NUTRITION THERAPY I 3 Credit Hours**

(Slashed with NUTR 43511) Exploration of the nutrition care process, including documentation, standardized language, nutrition assessment, interpretation of laboratory values and individualized patient care and planning for disease and nutrition needs. Students engage in case studies and nutrition assessment exercises.

**Prerequisite:** Graduate standing.

**Schedule Type:** Laboratory, Lecture, Combined Lecture and Lab

**Contact Hours:** 2 lecture, 2 lab

**Grade Mode:** Standard Letter

**NUTR 53512 MACRONUTRIENT NUTRITIONAL BIOCHEMISTRY 3 Credit Hours**

(Slashed with NUTR 43512) Course explores the mechanisms through which the macronutrients meet biological need and how these related to applied human nutrition.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**NUTR 53513 MICRONUTRIENT NUTRITIONAL BIOCHEMISTRY 3 Credit Hours**

(Slashed with NUTR 43513) Course explores the mechanisms through which micronutrients meet human biological needs in the relationship to underlying applied human nutrition.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**NUTR 53514 MEDICAL NUTRITION THERAPY II 3 Credit Hours**

(Slashed with NUTR 43514) Continued exploration of the nutrition care process, including relevant documentation, standardized language, nutrition assessment, interpretation of laboratory values and individualized patient care and planning for disease and nutritional needs. Students engage in case studies and nutritional assessments.

**Prerequisite:** Graduate standing.

**Schedule Type:** Laboratory, Lecture, Combined Lecture and Lab

**Contact Hours:** 2 lecture, 2 lab

**Grade Mode:** Standard Letter



**NUTR 53515 COMMUNITY NUTRITION 3 Credit Hours**

(Slashed with NUTR 43515) Introduction to nutrition problems and practices in the community. Principles and techniques of effective education, learning and behavior change theories and techniques. Includes an experiential laboratory component with a focus on planning, implementation, evaluation and outcomes in nutrition education, as well as nutrition communication, programming and counseling techniques.

**Prerequisite:** Graduate standing.

**Schedule Type:** Laboratory, Lecture, Combined Lecture and Lab

**Contact Hours:** 2 lecture, 2 lab

**Grade Mode:** Standard Letter

**NUTR 53518 LIFECYCLE NUTRITION 3 Credit Hours**

(Slashed with NUTR 43518) Explores the nutrition needs through growth, development and aging. Focus is on nutritional needs and issues during conception, pregnancy, lactation, infancy, childhood, adolescence, adulthood and older adulthood.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**NUTR 53520 SPORTS NUTRITION 3 Credit Hours**

(Slashed with NUTR 43520) Course focuses on the relationship between nutrition and exercise and the effect of nutrition on sports performance.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**NUTR 53521 FOOD CHOICES FOR PRESCRIBED DIETARY MODIFICATION 2 Credit Hours**

Adapting adequate normal diet in terms of food choices to accommodate prescribed food restriction or bodily dysfunction.

**Prerequisite:** NUTR 23511; course is not open to students in the nutrition major.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**NUTR 53522 INTEGRATIVE AND FUNCTIONAL NUTRITION 2 Credit Hours**

(Slashed with NUTR 43522) Introduces the foundations of integrative and functional medicine as it relates to nutrition. Includes personalized nutrition, nutrigenomics, complementary and alternative therapies, nutraceuticals and functional foods, in addition to the interaction of food on supplement and drug efficacy.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**NUTR 53532 METHODS AND EXPERIENCES IN NUTRITION OUTREACH 3 Credit Hours**

(Slashed with NUTR 43532) Students learn methods for development and evaluation techniques used for nutrition outreach programming; the role of community nutrition education in public health; and the impact of nutrition programming on disease prevention and management. Students engage in service learning opportunities in community nutrition education.

**Prerequisite:** Nutrition major; and graduate standing; and special approval.

**Schedule Type:** Field Experience, Lecture

**Contact Hours:** 2.5 lecture, .5 other

**Grade Mode:** Standard Letter

**NUTR 61018 TECHNIQUES OF RESEARCH IN FAMILY AND CONSUMER STUDIES 3 Credit Hours**

Introduction to the types of research and methods of data collection that are applied to a project of the student's choice.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**NUTR 61098 RESEARCH 1-15 Credit Hours**

(Repeatable for credit) Research for master's-level students. Credit earned may be applied toward meeting degree requirements with school approval.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Research

**Contact Hours:** 1-15 other

**Grade Mode:** Standard Letter-IP

**NUTR 61198 MASTER'S PROJECT 2-6 Credit Hours**

(Repeatable for credit) Completion and successful defense of a master's project. Master's project students must register for a total of 6 hours, 2 to 6 hours in a single semester distributed over several semesters if desired.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Master's Project

**Contact Hours:** 2-6 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**NUTR 63199 THESIS I 2-6 Credit Hours**

Thesis students must register for a total of 6 hours, 2 to 6 hours in a single semester distributed over several semesters if desired.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Masters Thesis

**Contact Hours:** 2-6 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**NUTR 63299 THESIS II 2 Credit Hours**

Students must continue registration each semester until all degree requirements are met.

**Prerequisite:** NUTR 63199; and graduate standing.

**Schedule Type:** Masters Thesis

**Contact Hours:** 2 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**NUTR 63519 ADVANCED STUDY OF MICRONUTRIENTS 3 Credit Hours**

Course covers intake, digestion and absorption of nutrients.

**Prerequisite:** Nutrition major; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**NUTR 63520 MACRONUTRIENT NUTRITION 3 Credit Hours**

Course covers metabolic utilization of macronutrients for body processes.

**Prerequisite:** Nutrition major; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**NUTR 63521 NUTRITION AND DISEASE: CLINICAL APPLICATIONS 3 Credit Hours**

Recent trends and concepts in research and practice of therapeutic dietetics.

**Prerequisite:** Nutrition major; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**NUTR 63524 PERSPECTIVE ON PREVENTION AND PRACTICE IN COMMUNITY NUTRITION 3 Credit Hours**

Explores the relationship between nutritional epidemiology and the research, policies and programs for the successful treatment and prevention of nutrition related disease in the United States. Focuses on the behavioral and learning theories used in successful nutrition interventions and grant writing to sustain community programs.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**NUTR 63525 DIETETIC PRACTICE: COMMUNITY 1 Credit Hour**

Discussion focusing on nutrition care in the community setting. Evaluation and interpretation of the scientific literature.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 1 lecture

**Grade Mode:** Standard Letter

**NUTR 63526 DIETETIC PRACTICE: MANAGEMENT 1 Credit Hour**

Discussion focusing on the management of food and nutrition services. Evaluation and interpretation of the scientific literature.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 1 lecture

**Grade Mode:** Standard Letter

**NUTR 63527 DIETETIC PRACTICE: CLINICAL 1 Credit Hour**

Discussion focusing on nutrition care in the acute practice setting. Evaluation and interpretation of the scientific literature.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 1 lecture

**Grade Mode:** Standard Letter

**NUTR 63591 NUTRITION SEMINAR 1-3 Credit Hours**

(Repeatable for credit) Evaluation and interpretation of recent literature in an area of nutrition. Topic varies per course offering.

**Prerequisite:** Graduate standing.

**Schedule Type:** Seminar

**Contact Hours:** 1-3 other

**Grade Mode:** Standard Letter

**NUTR 63592 DIETETIC INTERNSHIP 1-4 Credit Hours**

(Repeatable for credit) Supervised practice component of dietetic internship.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Practical Experience

**Contact Hours:** 12-48 other

**Grade Mode:** Satisfactory/Unsatisfactory

**Speech Pathology and Audiology (SPA)****SPA 10002 INTRODUCTION TO COMMUNICATION DISORDERS AND DIFFERENCES 3 Credit Hours**

An introduction to communication disorders and differences using a) case studies via film and video review and critique, b) lecture, and c) class discussions. Covers speech, language, swallowing and hearing disorders and cultural and linguistic differences in communication.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPA 33101 HEARING AND SPEECH SCIENCE 3 Credit Hours**

Acoustics, psychoacoustics, and acoustics of speech production and perception.

**Prerequisite:** Admittance into the SPA professional phase (minimum 3.000 overall GPA at 60 credits).

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPA 34102 APPLIED PHONETICS 3 Credit Hours**

Basic principles of speech production and phonetic transcriptions of English with the international phonetic alphabet; emphasis on general American dialect.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPA 34103 ANATOMY AND PHYSIOLOGY OF SPEECH AND HEARING 3 Credit Hours**

Functional anatomy and physiology of the respiratory, phonatory, articulatory, neural, and auditory systems as they are used with normal and abnormal speech and hearing.

**Prerequisite:** SPA 34104.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPA 34104 SPEECH AND LANGUAGE ACQUISITION 3 Credit Hours**

Normal development and linguistic analysis of language systems including phonology, morphology, syntax, semantics, and pragmatics.

**Pre/corequisite:** SPA 34102.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPA 34105 PHONEMIC BASES OF SPEECH AND LANGUAGE 3 Credit Hours**

Fundamental processes related to production and perception of spoken language, with parallels to writing and reading particular application to normal and hearing impaired children and adolescents. For nonmajors only.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPA 34106 ARTICULATORY AND PHONOLOGICAL DISORDERS 3 Credit Hours**

Assessment and remediation of disorders of articulation and phonology.

**Prerequisite:** Admittance into the speech pathology and audiology professional phase (minimum 3.000 overall GPA at 60 credits); and SPA 34102 and SPA 34104.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPA 34107 LANGUAGE DISORDERS IN CHILDREN AND ADOLESCENTS 3 Credit Hours**

Introduction to assessment and intervention procedures associated with language disorders in children and adolescents.

**Prerequisite:** SPA 34104.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPA 34210 SPEECH AND LANGUAGE DEVELOPMENT 3 Credit Hours**

Normal development and linguistic analysis of language systems including phonology, morphology, syntax, semantics, and pragmatics.

This course is for non-speech pathology and audiology majors.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPA 43402 AUDIOMETRY 3 Credit Hours**

(Slashed with SPA 53402) Measurement of human hearing by pure-tone and speech audiometry; evaluation of middle ear function by immittance audiometry; screening techniques; pathologies of the conductive and sensorineural systems.

**Prerequisite:** Admittance into the speech pathology and audiology professional phase (minimum 3.000 overall GPA at 60 credits); and SPA 33101.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPA 43403 CLINICAL PREPARATION IN AUDIOLOGY (ELR) 2 Credit Hours**

Exercises and practical experiences in audiometric procedures, test interpretation, counseling and management of the hearing impaired.

**Prerequisite:** Admittance into the speech pathology and audiology professional phase (minimum 3.000 overall GPA at 60 hours); and special approval.

**Corequisite:** SPA 43402.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**Attributes:** Experiential Learning Requirement

**SPA 43404 AURAL REHABILITATION 3 Credit Hours**

Basic principles, variables and techniques for understanding, evaluating and improving receptive communication of hearing impaired individuals.

**Prerequisite:** Admittance into the speech pathology and audiology professional phase (minimum 3.000 overall GPA at 60 credits); and SPA 33101 and 34102 and 43402 (speech pathology and audiology majors) or 43600 (Education of Hearing Impaired majors).

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPA 43600 FUNDAMENTALS OF EDUCATIONAL AUDIOLOGY 3 Credit Hours**

Auditory development and function/dysfunction; auditory assessment and family counseling; selection and fitting of personal and classroom amplification; care and maintenance of amplification systems; collaboration of professionals in audiology and education; communication approaches according to varying levels of hearing loss; classroom environments conducive to auditory and academic learning.

**Prerequisite:** Junior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPA 44010 SOCIAL COMMUNICATION DEVELOPMENT AND DISORDERS IN AUTISM SPECTRUM DISORDERS 3 Credit Hours**

Provides an understanding of the social, communication, and language needs of those with ASD from childhood through adulthood. Examines the cognitive, neurological, social, and environmental components influencing social, communicative functioning. Reviews contemporary assessment and intervention strategies. Explores the use of assistive technology to enhance social communicative functioning in those with ASD.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPA 44020 MEDICAL ASPECTS OF AUTISM SPECTRUM DISORDERS 3 Credit Hours**

(Cross-listed with SPED 44020) Description of medical issues facing individuals with autism spectrum disorders (ASD) and their families. Examination of etiology, co-occurring disabilities and disorders, and treatment options in relation to individuals with ASD.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPA 44030 AUTISM SPECTRUM DISORDERS OVER THE LIFESPAN 3 Credit Hours**

Provides students with a review of the significant aspects related to educational, social, vocational transitions for children, adolescents, and young adults with ASD. Students learning skills necessary to evaluate and develop programs designed to meet the changing and long term needs of those with ASD.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPA 44089 VARIABLE TOPIC INTERNATIONAL EXPERIENCE IN SPEECH PATHOLOGY AND AUDIOLOGY (ELR) 1-4 Credit Hours**

(Slashed with SPA 54089 and SPA 74089) A faculty-led study abroad experience that integrates traditional classroom learning with experiential activities and site visits outside the United States. International experience courses may have pre- and post-travel classroom study. Course activities may include, but are not limited to, classroom study, research, field work, internships and service learning.

**Prerequisite:** None.

**Schedule Type:** International Experience

**Contact Hours:** 1-4 other

**Grade Mode:** Standard Letter-IP

**Attributes:** Experiential Learning Requirement

**SPA 44096 INDEPENDENT STUDY:SPEECH PATHOLOGY AND AUDIOLOGY 2-6 Credit Hours**

(Repeatable for credit) Readings and/or research on problems approved by chairman of department in consultation with student's adviser and project director.

**Prerequisite:** Speech pathology and audiology major; and graduate standing; and special approval.

**Schedule Type:** Individual Investigation

**Contact Hours:** 2-6 other

**Grade Mode:** Standard Letter-IP

**SPA 44110 SPEECH SCIENCE 3 Credit Hours**

Consideration of physiological and acoustic characteristics of normal speech production and perception with implications for speech and hearing disorders.

**Prerequisite:** Admittance into the speech pathology and audiology professional phase (minimum 3.000 overall GPA at 60 credits); and SPA 34102 and SPA 34106.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPA 44111 NEURAL PROCESSES 3 Credit Hours**

(Slashed with SPA 54111) Anatomy and physiology of the nervous system underlying human neuromotor movements. Topics include: definition and fundamental concepts, afferent and efferent systems, cortical anatomy and function, cranial nerves, theories of brain function, and neural maturation and learning.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPA 44112 AGE-RELATED CHANGES IN COMMUNICATION 3 Credit Hours**

Nonpathological age-related changes in speech, language and voice.

Topics include structural changes in orofacial, laryngeal and respiratory mechanism; sequelae for speech, language and voice in the elderly; effects of age on swallowing; facilitating conversational interactions with elderly individuals.

**Prerequisite:** Admittance into the speech pathology and audiology professional phase (minimum 3.000 overall GPA at 60 credits).

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPA 44130 COMMUNICATION DISORDERS OF THE AGING 2 Credit Hours**

Hearing, speech and language disorders in geriatric population.

Symptoms, causes and treatment: normal changes in hearing, language and speech accompanying aging process.

**Prerequisite:** Senior standing.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**SPA 44310 CLINICAL PROCEDURES IN SPEECH PATHOLOGY 3 Credit Hours**

This course addresses evaluation and intervention procedures in the field of speech-language pathology across the lifespan.

**Prerequisite:** Admittance into the speech pathology and audiology professional phase (minimum 3.000 overall GPA at 60 credits) professional phase (minimum 3.000 overall GPA at 60 credits); and Senior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPA 44311 CLINICAL PREPARATION IN SPEECH-LANGUAGE PATHOLOGY (ELR) (WIC) 2 Credit Hours**

The course covers evaluation and intervention methodology for individuals with communication disorders and essential professional written communication skills.

**Prerequisite:** Admittance into the speech pathology and audiology professional phase (3.000 overall GPA at 60 hours).

**Corequisite:** SPA 44310.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**Attributes:** Experiential Learning Requirement, Writing Intensive Course

**SPA 53402 AUDIOMETRY 3 Credit Hours**

(Slashed with SPA 43402) Measurement of human hearing by puretone and speech audiometry# evaluation of middle ear function by immittance audiometry# screening techniques# pathologies of the conductive and sensorineural systems.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPA 53404 AURAL REHABILITATION 3 Credit Hours**

Basic principles, variables and techniques for understanding, evaluating and improving receptive communication of hearing impaired individuals.

**Prerequisite:** Education of hearing impaired majors: SPA 43600; speech pathology and audiology majors: SPA 33101 and SPA 34102 and SPA 43402; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPA 54010 SOCIAL COMMUNICATION DEVELOPMENT AND DISORDERS IN AUTISM SPECTRUM DISORDERS 3 Credit Hours**

Provides an understanding of the social, communication, and language needs of those with ASD from childhood through adulthood. Examines the cognitive, neurological, social, and environmental components influencing social, communicative functioning. Reviews contemporary assessment and intervention strategies. Explores the use of assistive technology to enhance social communicative functioning in those with ASD.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter



**SPA 54089 VARIABLE TOPIC INTERNATIONAL EXPERIENCE IN SPEECH PATHOLOGY AND AUDIOLOGY 1-4 Credit Hours**  
(Repeatable for credit) (Slashed with SPA 44089 and SPA 74089) A faculty-led study abroad experience that integrates traditional classroom learning with experiential activities and site visits outside the United States. International experience courses may have pre- and post-travel classroom study. Course activities may include, but are not limited to, classroom study, research, field work, internships and service learning.  
**Prerequisite:** Graduate standing.

**Schedule Type:** International Experience

**Contact Hours:** 1-4 other

**Grade Mode:** Standard Letter-IP

**SPA 54096 INDEPENDENT STUDY:SPEECH PATHOLOGY AND AUDIOLOGY 2-6 Credit Hours**  
(Repeatable for credit) Readings and/or research on problems approved by chair of department in consultation with student's adviser and project director.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Individual Investigation

**Contact Hours:** 2-6 other

**Grade Mode:** Standard Letter

**SPA 54110 SPEECH SCIENCE 3 Credit Hours**  
Consideration of physiological and acoustic characteristics of normal speech production and perception with implications for speech and hearing disorders.

**Prerequisite:** SPA 34102 and 34106; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPA 54111 NEURAL PROCESSES IN SPEECH AND LANGUAGE 3 Credit Hours**  
Anatomy and physiology of the nervous system underlying speech and language. Topics include: definition and fundamental concepts, afferent and efferent systems, cortical anatomy and function, cranial nerves, theories of brain function and neural maturation and learning.

**Prerequisite:** SPA 34103 or special approval of the instructor; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPA 54112 AGE-RELATED CHANGES IN COMMUNICATION 3 Credit Hours**  
Nonpathological age-related changes in speech, language and voice. Topics include: structural changes in orofacial, laryngeal and respiratory mechanisms; sequelae for speech, language and voice in the elderly; effects of age on swallowing; facilitating conversational interactions with elderly individuals.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPA 54130 COMMUNICATION DISORDERS OF THE AGING 2 Credit Hours**  
Hearing, speech and language disorders in geriatric population. Symptoms, causes and treatment: normal changes in hearing, language and speech accompanying aging process.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**SPA 63691 SEMINAR IN AUDIOLOGY 3 Credit Hours**  
(Repeatable for a maximum of 12 credit hours) Research, readings and discussion in any of these areas: aural rehabilitation, amplification, psychoacoustics, auditory physiology, medical audiology, hearing conservation.

**Prerequisite:** Graduate standing.

**Schedule Type:** Seminar

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**SPA 64091 SEMINAR IN COMMUNICATION DISORDERS 1-3 Credit Hours**  
(Repeatable for a maximum of 9 credit hours) Special topics seminar for advanced students in speech-language pathology and audiology. Presentations and discussion of research projects are required.

**Prerequisite:** Graduate standing.

**Schedule Type:** Seminar

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter-S/U-IP

**SPA 64093 WORKSHOP IN COMMUNICATION DISORDERS 1-3 Credit Hours**  
(Repeatable for credit) Variable topic workshop offered when need arises, either on or off campus to update training in a particular area of speech pathology.

**Prerequisite:** Graduate standing.

**Schedule Type:** Workshop

**Contact Hours:** 1-3 other

**Grade Mode:** Satisfactory/Unsatisfactory

**SPA 64096 INDIVIDUAL INVESTIGATION:SPEECH PATHOLOGY AND AUDIOLOGY 1-6 Credit Hours**  
(Repeatable for a maximum of 12 credit hours) Independent study of topics to be selected in consultation with graduate faculty.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Individual Investigation

**Contact Hours:** 1-6 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**SPA 64098 RESEARCH 1-15 Credit Hours**  
(Repeatable for credit) Research or individual investigation for master's level graduate students.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Research

**Contact Hours:** 1-15 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**SPA 64191 SEMINAR:NEUROGENIC COMMUNICATION DISORDERS 1-3 Credit Hours**

(Repeatable for a maximum of 9 credit hours) Reading and discussion seminar on swallowing disorders and the communication disorders relating to aphasia, apraxia, dysarthria, closed head injury, right brain damage and dementia.

**Prerequisite:** SPA 64301; and graduate standing.

**Schedule Type:** Seminar

**Contact Hours:** 1-3 other

**Grade Mode:** Standard Letter-S/U-IP

**SPA 64199 THESIS I 2-6 Credit Hours**  
Thesis students must register for a total of 6 hours, 2 to 6 hours in a single semester distributed over several semesters if desired.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Masters Thesis

**Contact Hours:** 2-6 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP



**SPA 64291 SEMINAR:CHILD LANGUAGE 1-3 Credit Hours**

(Repeatable for a maximum of 9 credit hours)Topics are selected for class investigation from the areas of child language development or disorders.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Seminar

**Contact Hours:** 1-3 other

**Grade Mode:** Standard Letter-S/U-IP

**SPA 64299 THESIS II 2 Credit Hours**

Thesis students must continue registration each semester until all degree requirements are met.

**Prerequisite:** SPA 64199; and graduate standing; and special approval.

**Schedule Type:** Masters Thesis

**Contact Hours:** 2 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**SPA 64301 APHASIA 3 Credit Hours**

Neuroanatomy, etiologies, symptomatologies, evaluation procedures and treatment techniques relating to aphasia in adults.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPA 64302 LANGUAGE ASSESSMENT AND INTERVENTION IN EARLY CHILDHOOD 3 Credit Hours**

Methods of language assessment and intervention for infants, toddlers and preschoolers who are either at risk or diagnosed as presenting language delays or disabilities.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPA 64303 DISORDERS OF ARTICULATION AND PHONOLOGY 3 Credit Hours**

Diagnosis and remediation of children's articulation and phonological disorders.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPA 64304 ACQUIRED COGNITIVE COMMUNICATIVE IMPAIRMENTS 3 Credit Hours**

Cognitive functions and etiologies, symptomologies, evaluation and treatment methods related to adults with cognitive communicative disorders subsequent to right hemisphere damage, traumatic brain injury, dementia and related impairments.

**Prerequisite:** Speech language pathology major; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPA 64305 FLUENCY DISORDERS 3 Credit Hours**

Nature, theories and their derived therapeutic approaches to the treatment of fluency disorders.

**Prerequisite:** Speech language pathology major; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPA 64306 VOICE DISORDERS 2 Credit Hours**

Normal aspects of voice production, etiology and symptomatology of voice disorders, diagnostic procedures and management techniques.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**SPA 64307 DYSARTHRIA 1 Credit Hour**

Neuro-anatomy, etiologies, symptomatologies, evaluation procedures and treatment techniques relating to dysarthria in adults.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 1 lecture

**Grade Mode:** Standard Letter

**SPA 64308 LANGUAGE ASSESSMENT AND INTERVENTION WITH SCHOOL-AGE POPULATIONS 3 Credit Hours**

Theoretical background knowledge and practical assessment and intervention techniques for school-age children who demonstrate language disorders.

**Prerequisite:** SPA 34107; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPA 64309 AUTISM SPECTRUM DISORDERS: THEORY AND DIAGNOSIS 3 Credit Hours**

(Cross-listed with SPA 74309 and SPED 64309) (Slashed with SPED 44309) Provides an overview of autism spectrum disorders (ASD). Examines the history, characteristics, and prevalence of ASD. The different theoretical models for understanding ASD are explored as they relate to assessment and intervention.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPA 64310 AUTISM SPECTRUM DISORDERS: LIFESPAN INTERVENTIONS 3 Credit Hours**

(Cross-listed with SPED 64310) (Slashed with SPA 74310) Provides students with a review of the significant aspects related to educational, social, vocational transitions for children, adolescents, and young adults with autism spectrum disorders (ASD). Students learn skills necessary to evaluate and develop programs designed to meet the changing and long term needs of individuals with ASD.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPA 64311 AUTISM SPECTRUM DISORDERS 2 Credit Hours**

Provides an overview of the social, communication, and language needs of those with autism spectrum disorder. Reviews contemporary assessment and intervention strategies. This course is designed to prepare preservice speech language pathologists with foundational information about autism spectrum disorders.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**SPA 64312 MOTOR SPEECH DISORDERS IN CHILDREN AND ADULTS 3 Credit Hours**

(Slashed with SPA 74312) Anatomic and physiologic bases of congenital and acquired motor speech disorders. Etiology, symptomatology, evaluation and treatment techniques related to variety of motor speech disorders in children and adults.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPA 64354 PEDIATRIC MEDICAL ISSUES 2 Credit Hours**

Nature and rehabilitative procedures for speech-language pathology practice with pediatric medical issues, including dysphagia, maxillofacial anomalies, and resonance disorders.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**SPA 64356 ADULT DYSPHAGIA 3 Credit Hours**

(Slashed with SPA 74356) Anatomy, etiologies, symptomatology, evaluation procedures and treatment techniques relating to swallowing disorders in adults.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPA 64391 SEMINAR:SEMINAR: ARTICULATION AND PHONOLOGY 1-3 Credit Hours**

(Repeatable for a maximum of 9 credit hours)Critical review and application of systems and methods for assessment and remediation of articulation and phonological disorders.

**Prerequisite:** Graduate standing.

**Schedule Type:** Seminar

**Contact Hours:** 1-3 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**SPA 64491 SEMINAR:ORGANIC SPEECH DISORDERS 1-3 Credit Hours**

(Repeatable for credit)A revolving topics seminar on theoretical and/or clinical issues related to neurogenic/organic speech and/or language disorders.

**Prerequisite:** Graduate standing.

**Schedule Type:** Seminar

**Contact Hours:** 1-3 other

**Grade Mode:** Standard Letter-S/U-IP

**SPA 64492 CLINICAL PRACTICE IN SPEECH PATHOLOGY AND AUDIOLOGY 1-12 Credit Hours**

(Repeatable for credit) Supervised clinical practice with patients who have speech, hearing or language problems.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Practical Experience

**Contact Hours:** 1-12 other

**Grade Mode:** Standard Letter-IP

**SPA 64500 NORMAL LANGUAGE PROCESSES 3 Credit Hours**

Examines current theory and research specific to normal human development from birth to age 21. Significant neurological, cognitive, social, linguistic, emotional, literacy, and motor developmental changes are explored.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPA 64501 SOCIAL COMMUNICATION ASPECTS OF AUTISM SPECTRUM DISORDER 3 Credit Hours**

(Slashed with SPA 74501) Provides an understanding of the social, communication, and language needs of those with ASD from childhood through adulthood. Examines the cognitive, neurological, social, and environmental components influencing social, communicative functioning. Reviews contemporary assessment and intervention strategies. Explores use of assistive technology to enhance social communicative functioning in those with ASD.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPA 64504 ADVANCED SPEECH AND VOICE SCIENCE 3 Credit Hours**

Application of normal and disordered speech, swallowing, and voice production and perception; survey of literature; theories of production and perception.

**Prerequisite:** SPA 54110; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPA 64525 PUBLIC SCHOOL TECHNIQUES IN COMMUNICATION DISORDERS:INQUIRY INTO PROFESSIONAL PRACTICE 3 Credit Hours**

Inquiry into speech pathology and audiology as practiced in the school setting; emphasis on speech language pathologist or audiologist as disciplined investigator. Combination of themes including organizational procedures, therapy techniques, collaboration, ethics and research.

**Prerequisite:** Graduate standing; and special approval.

**Corequisite:** SPA 64528.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPA 64528 STUDENT TEACHING IN SPEECH-LANGUAGE PATHOLOGY AND AUDIOLOGY 8 Credit Hours**

Inquiry into speech pathology and audiology as practiced in the school setting; emphasis on speech language pathologist or audiologist as disciplined investigator. Combination of themes including organization, procedures, therapy techniques, collaboration, ethics and research. Students are required to complete Bureau of Criminal Investigation and Identification (BCII) and Federal Bureau of Investigation (FBI) background checks and submit the results to authorized personnel at their assigned 'school/agency' before the first day of the semester in which student teaching/ internship will take place. Training must be presented to the campus office of clinical experience or designated faculty/staff at college of applied and technical studies' campuses as prerequisite for student teaching; and special approval.

**Prerequisite:** Official valid certification of child safety training, approved basic life support and ALICE.

**Corequisite:** SPA 64525.

**Schedule Type:** Practical Experience

**Contact Hours:** 40 other

**Grade Mode:** Satisfactory/Unsatisfactory

**SPA 64591 SEMINAR:FLUENCY DISORDERS 1-3 Credit Hours**

(Repeatable for a maximum 9 credit hours)Seminar dealing with the theoretical and applied aspects of fluency disorders in children and adults.

**Prerequisite:** Graduate standing.

**Schedule Type:** Seminar

**Contact Hours:** 1-3 other

**Grade Mode:** Standard Letter-S/U-IP

**SPA 64600 RESEARCH METHODS IN SPEECH-LANGUAGE PATHOLOGY AND AUDIOLOGY 3 Credit Hours**

Methodologies for collecting, analyzing and interpreting data for clinical and research purposes in speech language pathology and audiology.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPA 64691 SEMINAR:VOICE DISORDERS 1-3 Credit Hours**

(Repeatable for a maximum of 9 credit hours) Current literature review and discussions dealing with varying topics ranging from normal aspects of phonation in various populations to disorders of voice and their diagnosis and treatment.

**Prerequisite:** SPA 6/74306; and graduate standing.

**Schedule Type:** Seminar

**Contact Hours:** 1-3 other

**Grade Mode:** Standard Letter-S/U-IP

**SPA 64791 SEMINAR:SPEECH SCIENCE 1-3 Credit Hours**

(Repeatable for a maximum of 9 credit hours)Consideration of selected topics related to physiological, anatomical and acoustic aspects of speech production and perception.

**Prerequisite:** SPA 4/54110 and SPA 6/74504; graduate standing.

**Schedule Type:** Seminar

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter-S/U-IP

**SPA 64891 SEMINAR:COMMUNICATION MODALITIES AND ASSISTIVE TECHNOLOGY 3 Credit Hours**

(Repeatable for credit) Nature, etiologies and correlates of speech/ language communication disorders and differences that may indicate a need for a multi-modal communication approach. Includes an emphasis on assistive technology for communication, language, learning and literacy.

**Prerequisite:** SPA 64500 and SPA 64302; and graduate standing.

**Schedule Type:** Seminar

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**SPA 64991 SEMINAR:CRITICAL TOPICS IN SPEECH LANGUAGE 1-3 Credit Hours**

(Repeatable for credit) Principles and methods of assessment and intervention for various topics in speech-language pathology from critical thinking and case-study framework.

**Prerequisite:** Speech pathology and audiology major only; and graduate standing; and instructor special approval.

**Schedule Type:** Seminar

**Contact Hours:** 1-3 other

**Grade Mode:** Standard Letter-S/U-IP

**SPA 65092 CLINICAL PRACTICUM I IN SPEECH LANGUAGE PATHOLOGY 2-3 Credit Hours**

(Slashed with SPA 75092) (Repeatable twice for credit) Supervised, introductory clinical experience in assessment and intervention with populations within the Scope of Practice of speech language pathology per the current practice policy of the American Speech Language Hearing Association. To facilitate clinical competency and accrual of required clinical clock hours per current ASHA standards, students are expected to enroll in Clinical Practicum each semester that they are not enrolled in Externship or Student Teaching. A grade of B or better in this course is required for permission to register in SPA 65192.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Practical Experience

**Contact Hours:** 8-12 other

**Grade Mode:** Standard Letter-IP

**SPA 65192 CLINICAL PRACTICUM II IN SPEECH AND LANGUAGE PATHOLOGY 2-3 Credit Hours**

(Slashed with SPA 75192) (Repeatable twice for credit) This course includes additional supervised, hands on clinical experience with clients in on campus clinics. Student clinicians are provided with opportunities to demonstrate increased independence in clinical decision making and performance. Practicum requirements may include attendance at a weekly Clinical Colloquium. A grade of B or better in this course is required for registration in SPA 65292.

**Prerequisite:** SPA 65092 with a minimum C grade; and graduate standing; and special approval.

**Schedule Type:** Practical Experience

**Contact Hours:** 8-12 other

**Grade Mode:** Standard Letter-IP

**SPA 65292 CLINICAL PRACTICUM III IN SPEECH LANGUAGE PATHOLOGY 2-3 Credit Hours**

(Slashed with SPA 75292) (Repeatable twice for credit) Includes additional supervised, hands on clinical experience with clients in on campus clinics and or off-campus, supervised clinical experience in sites such as schools or long term care facilities. Students clinicians are provided with opportunities to demonstrate levels of independence in clinical decision making and performance that reflect readiness for Externship or Student Teaching experiences. Practicum requirements may include attendance at a weekly Clinical Colloquium. A grade of B or better in this course is required for permission to register in the following courses: Clinical Practicum IV in Speech Language Pathology SPA 65392, Externship in Speech Language Pathology: Adult SPA 65492, Externship in Speech Language Pathology: Pediatric SPA 65592, Student Teaching in Speech Language Pathology SPA 64528.

**Prerequisite:** SPA 65192 with a minimum B grade; and graduate standing; and special approval.

**Schedule Type:** Practical Experience

**Contact Hours:** 8-12 other

**Grade Mode:** Standard Letter-IP

**SPA 65392 CLINICAL PRACTICUM IV IN SPEECH LANGUAGE PATHOLOGY 2-3 Credit Hours**

(Slashed with SPA 75392) (Repeatable twice for credit) This supervised, hands on clinical experience with clients in on campus clinics or off campus sites is for second year graduate students who are not yet scheduled for externship or student teaching. Students clinicians are provided with opportunities to demonstrate levels of independence in clinical decision making and performance that are reflective of readiness for externship or student teaching experiences. A grade of B or better in this course is required for permission to register in the following courses: Externship in speech language pathology: adult SPA 65492, externship in speech language pathology: pediatric SPA 65592, student teaching in speech language pathology SPA 64528.

**Prerequisite:** SPA 65292 with a minimum B grade; and graduate standing; and special approval.

**Schedule Type:** Practical Experience

**Contact Hours:** 8-12 other

**Grade Mode:** Standard Letter-IP

**SPA 65492 EXTERNSHIP IN SPEECH LANGUAGE PATHOLOGY: ADULT 4-8 Credit Hours**

(Slashed with SPA 75492) (Repeatable once for credit) Considered a culminating clinical experience. Includes supervised, hands-on clinical experience with patients in adult care settings such as hospitals, rehabilitation and long term care facilities.

**Prerequisite:** SPA 65292 or SPA 65392 with a minimum B grade; and graduate standing; and permission.

**Schedule Type:** Practical Experience

**Contact Hours:** 20-40 other

**Grade Mode:** Standard Letter-IP

**SPA 65592 EXTERNSHIP IN SPEECH LANGUAGE PATHOLOGY: PEDIATRIC 4-8 Credit Hours**

(Slashed with SPA 75592) (Repeatable once for credit) Considered a culminating clinical experience. Students may choose this course as an alternative to student teaching in speech-language pathology. Includes supervised, hands-on clinical experience with children and adolescents in pediatric care settings such as hospitals and other habilitation and rehabilitation facilities.

**Prerequisite:** SPA 65292 or SPA 65392 with a minimum B grade; and graduate standing; and special approval.

**Schedule Type:** Practical Experience

**Contact Hours:** 20-40 other

**Grade Mode:** Standard Letter-IP

**SPA 70615 CENTRAL AUDITORY PROCESSING EVALUATION AND MANAGEMENT 2 Credit Hours**

Study of audiologic evaluation and (re)habilitation procedures for people central auditory processing disorders.

**Prerequisite:** SPA 70705 and SPA 70706; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**SPA 70616 HEARING AID FITTING AND SELECTION ACROSS THE LIFESPAN 4 Credit Hours**

Examination of the theory and practice of fitting hearing aids across the lifespan. Emphasis on special clinical procedures, research needs and evolving technology in hearing instruments.

**Prerequisite:** Admission to the audiology major; and SPA 70713; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 4 lecture

**Grade Mode:** Standard Letter

**SPA 70618 IMPLANTABLE TECHNOLOGY 4 Credit Hours**

Study of implantable devices in children and adults including equipment, candidacy, programming, fitting, and troubleshooting.

**Prerequisite:** Admission to the audiology major; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 4 lecture

**Grade Mode:** Standard Letter

**SPA 70627 MULTICULTURAL ISSUES IN AUDIOLOGY 2 Credit Hours**

An introduction to varying cultures and the audiologist's roles and responsibilities in planning treatment with a member of these cultures.

**Prerequisite:** Admission to the audiology major; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**SPA 70630 PRACTICE MANAGEMENT IN AUDIOLOGY 3 Credit Hours**

Study of issues which impact the management of audiological practices, including establishing a private practice, reimbursement, marketing, record keeping and professional liability.

**Prerequisite:** Admission to the audiology major; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPA 70691 SEMINAR IN AUDIOLOGY 2 Credit Hours**

(Repeatable for credit) Selected current topics in audiology with emphasis on review of current literature.

**Prerequisite:** Admission to the AUD program or special approval of the instructor; and doctoral standing.

**Schedule Type:** Seminar

**Contact Hours:** 2 other

**Grade Mode:** Standard Letter

**SPA 70692 INTERNSHIP IN AUDIOLOGY 2 Credit Hours**

(Repeatable for credit) Supervised practicum in audiology requiring the independent performance of basic audiologic procedures, including hearing aid management.

**Prerequisite:** SPA 70744; and doctoral standing; and special approval.

**Schedule Type:** Practical Experience

**Contact Hours:** 18 other

**Grade Mode:** Standard Letter

**SPA 70701 BASIC AND APPLIED PHYSICAL ACOUSTICS FOR AUDIOLOGY 4 Credit Hours**

Study of physical acoustics, basic electricity and electronics, as well as principles, methodology, calibration and maintenance of audiologic equipment.

**Prerequisite:** Admission to the AUD program or special approval of instructor; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 4 lecture

**Grade Mode:** Standard Letter

**SPA 70702 ANATOMY AND PHYSIOLOGY OF PERIPHERAL AUDITORY AND VESTIBULAR SYSTEMS 3 Credit Hours**

A study of the anatomy, biophysics and physiology of the auditory and vestibular systems.

**Prerequisite:** Admission to the AUD program or special approval of instructor; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPA 70703 ACOUSTIC PHONETICS 3 Credit Hours**

Study of the acoustics, measurement and nomenclature of speech sounds and theoretical and acoustic bases of speech perception (includes 1 hour lab).

**Prerequisite:** Admission to the AUD program; and doctoral standing.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**SPA 70704 CRITICAL ANALYSIS OF RESEARCH IN AUDIOLOGY 2 Credit Hours**

General introduction to the research process with an emphasis on acquiring a reading knowledge of research and an ability to evaluate research.

**Prerequisite:** Admission to the AUD program; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**SPA 70705 AUDITORY DISORDERS 2 Credit Hours**

Study of conditions/diseases that can affect the auditory system.

**Prerequisite:** Admission to the AUD program; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**SPA 70706 ANATOMY AND PHYSIOLOGY UNDERLYING NEURO-OTOLOGY 4 Credit Hours**

An in-depth study of the anatomy and physiology of the central auditory and vestibular nervous system (includes 1 hour lab.)

**Prerequisite:** SPA 70702; and doctoral standing.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 4 other

**Grade Mode:** Standard Letter

**SPA 70707 PSYCHOACOUSTICS 3 Credit Hours**

Study of the principles, procedures and research of psychoacoustics; the relationships between the physical dimensions of auditory stimuli and the resultant perceptual experience with normal and impaired hearing.

**Prerequisite:** Admission to the AUD program; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPA 70708 CRITICAL ANALYSIS OF RESEARCH 2 Credit Hours**

Development of a reading knowledge of research and the ability to evaluate the quality of research studies.

**Prerequisite:** SPA 70704; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**SPA 70709 AUDIOLOGIC ASSESSMENT 3 Credit Hours**

Theoretical basis for tests underlying basic audiologic assessments.

**Prerequisite:** Admission to the AUD program; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPA 70710 INDUSTRY AND COMMUNITY NOISE 3 Credit Hours**

Theoretical principles of noise measurement; etiology of noise-induced hearing loss and acoustic trauma; industrial hearing conservation programs; occupational safety and health act; community and recreational noise evaluation and management.

**Prerequisite:** Admission to the AUD program; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPA 70711 SPEECH-LANGUAGE PATHOLOGY FOR THE AUDIOLOGIST 3 Credit Hours**

Examination of normal and abnormal aspects of speech and language including their impact on auditory function and testing.

**Prerequisite:** Admission to the AUD program; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPA 70712 DIAGNOSIS OF AUDITORY DISORDERS 3 Credit Hours**

Underlying theory and principles of administration and interpretation of site-of-lesion tests.

**Prerequisite:** SPA 70709; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPA 70713 HEARING AID TECHNOLOGY 4 Credit Hours**

Study of amplification systems for the hearing impaired.

**Prerequisite:** SPA 70701; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 4 lecture

**Grade Mode:** Standard Letter



**SPA 70714 GERONTOLOGICAL ISSUES IN AUDIOLOGY 3 Credit Hours**

Physiological, psychological and sociological theories of aging with a focus on the etiology, symptomatology, assessment and rehabilitation of older adults with hearing impairments.

**Prerequisite:** Admission to the AUD program; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPA 70715 CENTRAL AUDITORY PROCESSING: EVALUATION AND MANAGEMENT 3 Credit Hours**

Study of audiologic evaluation and habilitation/rehabilitation procedures for people having central auditory disabilities.

**Prerequisite:** SPA 70705 and SPA 70706; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPA 70716 ADULT HEARING-AID FITTING AND SELECTION 3 Credit Hours**

Examination of the theory and practice of fitting hearing aids. Emphasis on special clinical procedures research needs and evolving technology in hearing instruments. Includes a one hour lab.

**Prerequisite:** SPA 70713; and doctoral standing.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**SPA 70717 PEDIATRIC AUDIOLOGY 3 Credit Hours**

Study of audiologic diagnostic and auditory habilitative protocols for the birth to 3 population. Both assessment and management strategies will be emphasized.

**Prerequisite:** SPA 70709; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPA 70718 COCHLEAR IMPLANTS 2 Credit Hours**

Study of cochlear implants in children and adults including equipment, candidacy, mapping and overview of (re)habilitation.

**Prerequisite:** Admission to the AUD program; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**SPA 70719 COUNSELING IN AUDIOLOGY 3 Credit Hours**

Focus on interviewing, counseling and interacting with individuals with hearing impairments their families and significant others.

**Prerequisite:** Admission to the AUD program; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPA 70720 PEDIATRIC AMPLIFICATIONS 3 Credit Hours**

The focus of study is on amplification systems and fitting techniques for the pediatric population.

**Prerequisite:** SPA 70713 and SPA 70716 and SPA 70717; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPA 70721 EVALUATION AND MANAGEMENT OF BALANCE DISORDERS 3 Credit Hours**

Study of the balance mechanism; differential diagnostic assessment of balance disorders including electronystagmography, posturography and rotational testing; rehabilitation of the balance disordered patient (1 hour lab included.)

**Prerequisite:** Admission to the AUD program or special approval of instructor; and doctoral standing.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**SPA 70722 AUDIOLOGIC MANAGEMENT OF THE SCHOOL-AGE CHILD 3 Credit Hours**

Focus on educational audiology. Features delivery of audiologic services designed to access the school environment for children ages 4-21.

**Prerequisite:** SPA 70717; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPA 70723 AUDIOLOGIC TREATMENT OF ADULTS 3 Credit Hours**

Study of current methodologies employed in the audiologic rehabilitation of adults with hearing impairments. Implementation of remedial strategies is emphasized.

**Prerequisite:** SPA 70716 or doctoral standing; and special approval of instructor.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPA 70724 HISTORY OF AUDIOLOGY 1 Credit Hour**

An examination of the history of deafness/hearing impairment and the profession of audiology.

**Prerequisite:** Admission to the AUD program; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 1 lecture

**Grade Mode:** Standard Letter

**SPA 70725 MEDICAL MANAGEMENT OF AUDITORY DISORDERS 2 Credit Hours**

A study of the multidisciplinary approach to medical/surgical management of patients with auditory and vestibular disorders.

**Prerequisite:** SPA 70712; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**SPA 70726 ELECTROPHYSIOLOGICAL TECHNIQUES IN AUDIOLOGY 3 Credit Hours**

Study of evoked responses used in diagnostic audiology, including ABR, MLR, ECHOCHG, ENOG, ALR, P300, VER, and SSER.

**Prerequisite:** SPA 70706; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPA 70727 CULTURAL ISSUES IN DEAFNESS 2 Credit Hours**

An introduction to deaf culture and the audiologist's roles and responsibilities in planning treatment with a member of the deaf community.

**Prerequisite:** Admission to the AUD program; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**SPA 70730 PRACTICE MANAGEMENT IN AUDIOLOGY 4 Credit Hours**

Study of issues which impact the management of audiological practices, including establishing a private practice, reimbursement, marketing, record keeping and professional liability.

**Prerequisite:** Admission to the AUD program; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 4 lecture

**Grade Mode:** Standard Letter

**SPA 70732 AUDIOLOGIC TREATMENT ACROSS THE LIFESPAN 4 Credit Hours**

Study of current methodologies employed in the audiologic treatment of people with hearing loss across the lifespan. Implementation of remedial strategies is emphasized.

**Prerequisite:** Admission to the audiology major; and SPA 70616; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 4 lecture

**Grade Mode:** Standard Letter

**SPA 70733 ADVANCED ELECTROPHYSIOLOGIC AND VESTIBULAR MEASURES 4 Credit Hours**

Advanced considerations in balance function assessment and management and in the study of evoked responses used in diagnostic audiology.

**Prerequisite:** Admission into the audiology program; and SPA 70726 and SPA 70721; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 4 lecture

**Grade Mode:** Standard Letter

**SPA 70734 PRINCIPLES IN PRECEPTING 1 Credit Hour**

Examination of the concepts and practices essential to the preceptor role. Emphasis on professional standards, adult learning theories, communication styles, ethical principles, and the multiple roles of a preceptor (educator, role model, mentor, facilitator and evaluator).

**Prerequisite:** Admission into the audiology major; and SPA 70748; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 1 lecture

**Grade Mode:** Standard Letter

**SPA 70741 DIRECTED OBSERVATION IN AUDIOLOGY I 1 Credit Hour**

Introduction to clinical practicum in audiology. Directed observation of clinical practice including audiologic diagnosis and audiologic rehabilitation are required.

**Prerequisite:** Admission to the AUD program or special approval of the instructor; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 1 lecture

**Grade Mode:** Standard Letter

**SPA 70742 DIRECTED OBSERVATION IN AUDIOLOGY II 1 Credit Hour**

Introduction to clinical practicum in audiology. Directed observation of clinical practice including audiologic diagnosis and audiologic rehabilitation are required.

**Prerequisite:** Admission to the AUD program; and doctoral standing; and special approval.

**Schedule Type:** Practical Experience

**Contact Hours:** 1 other

**Grade Mode:** Standard Letter

**SPA 70743 CLERKSHIP I 1 Credit Hour**

Clinical practicum in audiology during which students perform discrete tasks under supervision.

**Prerequisite:** Doctoral standing; and special approval of instructor.

**Corequisite:** SPA 70709.

**Schedule Type:** Practical Experience

**Contact Hours:** 1 other

**Grade Mode:** Standard Letter

**SPA 70744 CLERKSHIP II 1 Credit Hour**

Supervised clinical practicum in audiology during which students will perform discrete clinical tasks while under supervision.

**Prerequisite:** SPA 70743; and doctoral standing; and special approval.

**Schedule Type:** Practical Experience

**Contact Hours:** 1 other

**Grade Mode:** Standard Letter

**SPA 70747 GRADUATE AUDIOLOGIST I 3 Credit Hours**

Supervised clinical practicum in audiology which encompasses audiologic assessments and audiologic habilitation.

**Prerequisite:** SPA 70792; and doctoral standing.

**Schedule Type:** Practical Experience

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**SPA 70748 GRADUATE AUDIOLOGIST II 3 Credit Hours**

Supervised clinical practicum in audiology requiring the independent performance of audiologic assessment procedures, audiologic rehabilitation and vestibular assessment and rehabilitation.

**Prerequisite:** SPA 70747; and doctoral standing; and special approval.

**Schedule Type:** Practical Experience

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**SPA 70749 GRADUATE AUDIOLOGIST III 8 Credit Hours**

Full-time clinical practicum in audiology at an off-campus site.

**Prerequisite:** Passing score of 600 or higher on the PRAXIS examination; and SPA 70748; and doctoral standing and special approval.

**Corequisite:** SPA 70791.

**Schedule Type:** Practical Experience

**Contact Hours:** 8 other

**Grade Mode:** Standard Letter

**SPA 70750 GRADUATE AUDIOLOGIST IV 8 Credit Hours**

Full-time clinical practicum in audiology at an off-campus site. Students taking the course must have successfully completed the Praxis Examination.

**Prerequisite:** SPA 70749; and doctoral standing.

**Corequisite:** SPA 70791.

**Schedule Type:** Practical Experience

**Contact Hours:** 8 other

**Grade Mode:** Standard Letter

**SPA 70751 GRADUATE AUDIOLOGIST V 3 Credit Hours**

Full-time clinical practicum in audiology at an off-campus site.

**Prerequisite:** SPA 70750; and doctoral standing.

**Schedule Type:** Practical Experience

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**SPA 70753 LABORATORY FOR ELECTROPHYSIOLOGICAL TECHNIQUES IN AUDIOLOGY 1 Credit Hour**

Laboratory exercises for the assessment of auditory disorders including electrocochleography, the auditory brainstem response and auditory steady state responses.

**Prerequisite:** Audiology major; and doctoral standing.

**Corequisite:** SPA 70726.

**Schedule Type:** Laboratory

**Contact Hours:** 3 lab

**Grade Mode:** Standard Letter

**SPA 70754 LABORATORY FOR EVALUATION AND MANAGEMENT OF BALANCE DISORDERS 1 Credit Hour**

Laboratory exercises for the assessment of balance disorders including videonystagmography, posturography and informal evaluations; approaches for the rehabilitation and treatment of the balance disordered patient.

**Prerequisite:** Audiology major; and doctoral standing.

**Corequisite:** SPA 70721.

**Schedule Type:** Laboratory

**Contact Hours:** 3 lab

**Grade Mode:** Standard Letter

**SPA 70755 LABORATORY FOR ADVANCED ELECTROPHYSIOLOGIC AND VESTIBULAR MEASURES 1 Credit Hour**

Laboratory exercises for the assessment, management and treatment of auditory and vestibular disorders including early, middle and late auditory evoked potentials and advanced vestibular measures.

**Prerequisite:** Audiology major; and doctoral standing.

**Corequisite:** SPA 70733.

**Schedule Type:** Laboratory

**Contact Hours:** 3 lab

**Grade Mode:** Standard Letter

**SPA 70791 FOURTH YEAR SEMINAR 1 Credit Hour**

(Repeatable for credit) In-depth consideration of topics/issues in the practice of audiology with emphasis upon issues related to clinical rotation.

**Prerequisite:** Doctoral standing; and special approval.

**Corequisite:** SPA 70750 or SPA 70751.

**Schedule Type:** Seminar

**Contact Hours:** 1 other

**Grade Mode:** Standard Letter

**SPA 70792 INTERNSHIP IN AUDIOLOGY 2 Credit Hours**

(Repeatable for credit) Supervised clinical practicum in audiology requiring the independent performance of diagnostic, hearing aids and audiologic rehabilitation procedures. Students are required to complete Bureau of Criminal Investigation and Identification (BCII) and Federal Bureau of Investigation (FBI) background checks and submit the results to authorized personnel at their assigned 'school/agency' before the first day of the semester in which student teaching/internship will take place.

**Prerequisite:** SPA 70692; and doctoral standing.

**Schedule Type:** Practical Experience

**Contact Hours:** 18 other

**Grade Mode:** Standard Letter

**SPA 70798 RESEARCH PROJECT IN AUDIOLOGY 3 Credit Hours**

(Repeatable for credit) Completion of a doctoral research project including data collection, analysis write-up and oral presentation.

**Prerequisite:** Admission to the AUD program; and doctoral standing.

**Schedule Type:** Research

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter-IP

**SPA 70892 INTERNSHIP III 2 Credit Hours**

Clinical practicum in audiology during which students perform discrete tasks under supervision.

**Prerequisite:** Admission to the audiology major; and doctoral standing; and special approval.

**Schedule Type:** Practical Experience

**Contact Hours:** 18 other

**Grade Mode:** Standard Letter

**SPA 70992 INTERNSHIP IV 2 Credit Hours**

Clinical practicum in audiology during which students perform discrete tasks under supervision.

**Prerequisite:** Doctoral standing; and special approval.

**Schedule Type:** Practical Experience

**Contact Hours:** 18 other

**Grade Mode:** Standard Letter

**SPA 73691 SEMINAR IN AUDIOLOGY 3 Credit Hours**

(Repeatable for a maximum of 12 credit hours) Research, readings and discussion in any of these areas: aural rehabilitation, amplification, psychoacoustics, auditory physiology, medical audiology, hearing conservation.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Seminar

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**SPA 74089 VARIABLE TOPIC INTERNATIONAL EXPERIENCE IN SPEECH PATHOLOGY AND AUDIOLOGY 1-4 Credit Hours**

(Repeatable for credit) (Slashed with SPA 44089 and SPA 54089) A faculty-led study abroad experience that integrates traditional classroom learning with experiential activities and site visits outside the United States. International experience courses may have pre- and post-travel classroom study. Course activities may include, but are not limited to, classroom study, research, field work, internships and service learning.

**Prerequisite:** Doctoral standing.

**Schedule Type:** International Experience

**Contact Hours:** 1-4 other

**Grade Mode:** Standard Letter-IP

**SPA 74093 WORKSHOP IN COMMUNICATION DISORDERS 1-3 Credit Hours**

(Repeatable for credit) Variable topic workshop offered when need arises, either on or off campus to update training in a particular area of speech pathology.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Workshop

**Contact Hours:** 1-3 other

**Grade Mode:** Satisfactory/Unsatisfactory

**SPA 74191 SEMINAR:NEUROGENIC COMMUNICATION DISORDERS 1-3 Credit Hours**

(Repeatable for a maximum of 9 credit hours) Reading and discussion seminar on swallowing disorders and the communication disorders relating to aphasia, apraxia, dysarthria, closed head injury, right brain damage and dementia.

**Prerequisite:** SPA 64301; and doctoral standing.

**Schedule Type:** Seminar

**Contact Hours:** 1-3 other

**Grade Mode:** Standard Letter-S/U-IP

**SPA 74291 SEMINAR:CHILD LANGUAGE 1-3 Credit Hours**

(Repeatable for a maximum of 9 credit hours) Topics are selected for class investigation from the areas of child language, development or disorders.

**Prerequisite:** Doctoral standing; and special approval.

**Schedule Type:** Seminar

**Contact Hours:** 1-3 other

**Grade Mode:** Standard Letter-S/U-IP

**SPA 74301 APHASIA 3 Credit Hours**

Neuroanatomy, etiologies, symptomatologies, evaluation procedures and treatment techniques relating to aphasia in adults.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPA 74302 LANGUAGE ASSESSMENT AND INTERVENTION IN EARLY CHILDHOOD 3 Credit Hours**

Methods of language assessment and intervention for infants, toddlers and preschoolers who are either at risk or diagnosed as presenting language delays or disabilities.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPA 74303 DISORDERS OF ARTICULATION AND PHONOLOGY 3 Credit Hours**

Diagnosis and remediation of children's articulation and phonological disorders.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPA 74304 ACQUIRED COGNITIVE COMMUNICATIVE IMPAIRMENTS 3 Credit Hours**

Cognitive functions and etiologies, symptomologies, evaluation and treatment methods related to adults with cognitive communicative disorders subsequent to right hemisphere damage, traumatic brain injury, dementia and related impairments.

**Prerequisite:** Speech language pathology major; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPA 74305 FLUENCY DISORDERS 3 Credit Hours**

Nature, theories and their derived approaches to the assessment and treatment of fluency disorders.

**Prerequisite:** Speech language pathology major; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPA 74306 VOICE DISORDERS 2 Credit Hours**

Normal aspects of voice production, etiology and symptomatology of voice disorders, diagnostic procedures and management techniques.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**SPA 74307 DYSARTHRIA 1 Credit Hour**

Neuro-anatomy, etiologies, symptomatologies, evaluation procedures and treatment techniques relating to dysarthria in adults.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 1 lecture

**Grade Mode:** Standard Letter

**SPA 74308 LANGUAGE ASSESSMENT AND INTERVENTION WITH SCHOOL-AGE POPULATIONS 3 Credit Hours**

Theoretical background knowledge and practical assessment and intervention techniques for school-age children who demonstrate language disorders.

**Prerequisite:** SPA 34107; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPA 74309 AUTISM SPECTRUM DISORDERS: THEORY AND DIAGNOSIS 3 Credit Hours**

(Cross-listed with SPED 44309 and SPED 64309) (Slashed with SPA 64309) Provides an overview of Autism Spectrum Disorders (ASD). Examines the history, characteristics, and prevalence of ASD. Assessment and intervention models are explored as they relate to various theoretical models for understanding ASD.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPA 74310 AUTISM SPECTRUM DISORDERS: LIFESPAN INTERVENTIONS 3 Credit Hours**

(Cross-listed with SPA 64310) (Slashed with SPED 64310) Provides students with a review of the significant aspects related to educational, social, vocational transitions for children, adolescents, and young adults with autism spectrum disorders (ASD). Students learn skills necessary to evaluate and develop programs designed to meet the changing and long term needs of individuals with ASD.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPA 74312 MOTOR SPEECH DISORDERS IN CHILDREN AND ADULTS 3 Credit Hours**

(Slashed with SPA 64312) Anatomic and physiologic bases of congenital and acquired motor speech disorders. Etiology, symptomatology, evaluation and treatment techniques related to variety of motor speech disorders in children and adults.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPA 74354 PEDIATRIC MEDICAL ISSUES 2 Credit Hours**

Nature and rehabilitative procedures for speech-language pathology practice with pediatric medical issues, including dysphagia and maxillofacial anomalies and resonance disorders.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**SPA 74356 ADULT DYSPHAGIA 3 Credit Hours**

Anatomy, etiologies, symptomatologies, evaluation procedures and treatment techniques relating to swallowing disorders in adults.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPA 74391 SEMINAR:ARTICULATION AND PHONOLOGY 1-3 Credit Hours**

(Repeatable for a maximum of 9 credit hours)Critical review and application of systems and methods for assessment and remediation of articulation and phonological disorders.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Seminar

**Contact Hours:** 1-3 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**SPA 74491 SEMINAR:ORGANIC SPEECH DISORDERS 1-3 Credit Hours**

(Repeatable for credit)A revolving topics seminar on theoretical and/or clinical issues related to neurogenic/organic speech and/or language disorders.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Seminar

**Contact Hours:** 1-3 other

**Grade Mode:** Standard Letter-S/U-IP

**SPA 74492 CLINICAL PRACTICE IN SPEECH PATHOLOGY AND AUDIOLOGY 1-12 Credit Hours**

(Repeatable for credit) Supervised clinical practice with patients who have speech, hearing or language problems.

**Prerequisite:** Doctoral standing; and special approval.

**Schedule Type:** Practical Experience

**Contact Hours:** 1-12 other

**Grade Mode:** Standard Letter-IP

**SPA 74500 NORMAL LANGUAGE PROCESSES 3 Credit Hours**

Examines current theory and research specific to normal human development from birth to age 21. Significant neurological, cognitive, social, linguistic, emotional, literacy, and motor developmental changes are explored..

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPA 74501 SOCIAL COMMUNICATION ASPECTS OF AUTISM SPECTRUM DISORDER 3 Credit Hours**

Provides an understanding of the social, communication, and language needs of those with ASD from childhood through adulthood. Examines the cognitive, neurological, social, and environmental components influencing social, communicative functioning. Reviews contemporary assessment and intervention strategies. Explores use of assistive technology to enhance social communicative functioning in those with ASD.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPA 74504 ADVANCED SPEECH AND VOICE SCIENCE 3 Credit Hours**

Application of normal and disordered speech, swallowing, and voice production and perception; survey of literature; theories of production and perception.

**Prerequisite:** SPA 4/54110; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPA 74591 SEMINAR:FLUENCY DISORDERS 1-3 Credit Hours**

(Repeatable for a maximum of 9 credit hours)Seminar dealing with the theoretical and applied aspects of fluency disorders in children and adults.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Seminar

**Contact Hours:** 1-3 other

**Grade Mode:** Standard Letter-S/U-IP

**SPA 74592 CLERKSHIP I 1 Credit Hour**

Introduction to clinical practicum in audiology. Directed observation of clinical practice including audiologic diagnosis and audiologic rehabilitation are required.

**Prerequisite:** Admission to the audiology major; and doctoral standing; and special approval.

**Schedule Type:** Practical Experience

**Contact Hours:** 18 other

**Grade Mode:** Satisfactory/Unsatisfactory

**SPA 74600 RESEARCH METHODS IN SPEECH-LANGUAGE PATHOLOGY 3 Credit Hours**

Methodologies for collecting, analyzing and interpreting data for clinical and research purposes in speech language pathology and audiology.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPA 74691 SEMINAR:VOICE DISORDERS 1-3 Credit Hours**

(Repeatable for a maximum of 9 credit hours) Current literature review and discussions dealing with varying topics ranging from normal aspects of phonation in various populations to disorders of voice and their diagnosis and treatment.

**Prerequisite:** SPA 6/74306; and doctoral standing.

**Schedule Type:** Seminar

**Contact Hours:** 1-3 other

**Grade Mode:** Standard Letter-S/U-IP

**SPA 74692 CLERKSHIP II 1 Credit Hour**

Introduction to clinical practicum in audiology. Directed observation of clinical practice including audiologic diagnosis and audiologic rehabilitation are required.

**Prerequisite:** Admission to the audiology major; and doctoral standing; and special approval.

**Schedule Type:** Practical Experience

**Contact Hours:** 1 other

**Grade Mode:** Satisfactory/Unsatisfactory

**SPA 74791 SEMINAR:SPEECH SCIENCE 1-3 Credit Hours**

(Repeatable for a maximum of 9 credit hours) Consideration of selected topics related to physiological, anatomical and acoustic aspects of speech production and perception.

**Prerequisite:** SPA 4/54110 or SPA 6/74504; and doctoral standing.

**Schedule Type:** Seminar

**Contact Hours:** 1-3 other

**Grade Mode:** Standard Letter-S/U-IP



**SPA 74792 GRADUATE AUDIOLOGIST III 6 Credit Hours**

Supervised clinical practicum in audiology which encompasses the entire range of audiologic procedures including neurophysiological based procedures.

**Prerequisite:** Passing score of 600 or higher on the PRAXIS examination; and SPA 70748; and doctoral standing; and special approval.

**Corequisite:** SPA 70791.

**Schedule Type:** Practical Experience

**Contact Hours:** 18 other

**Grade Mode:** Standard Letter

**SPA 74891 SEMINAR:COMMUNICATION MODALITIES AND ASSISTIVE TECHNOLOGY 3 Credit Hours**

(Repeatable for credit) Nature, etiologies and correlates of speech language communication disorders and differences that may indicate a need for a multi-modal communication approach. Includes an emphasis on assistive technology for communication language, learning and literacy.

**Prerequisite:** Speech language pathology major; and doctoral standing.

**Schedule Type:** Seminar

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**SPA 74892 GRADUATE AUDIOLOGIST V 8 Credit Hours**

Full-time external audiology clinical placement with a licensed and appropriately credentialed preceptor who provides clinical teaching. This experience provides a capstone learning experience in the full scope of practice in the profession of audiology.

**Prerequisite:** SPA 70750; and doctoral standing; and special approval.

**Schedule Type:** Practical Experience

**Contact Hours:** 24 other

**Grade Mode:** Standard Letter

**SPA 74991 SEMINAR:CRITICAL TOPICS IN SPEECH LANGUAGE PATHOLOGY 1-3 Credit Hours**

(Repeatable for credit) Principles and methods of assessment and intervention for various topics in speech-language pathology from critical thinking and case-study framework.

**Prerequisite:** Speech pathology and audiology major; and doctoral standing.

**Schedule Type:** Seminar

**Contact Hours:** 1-3 other

**Grade Mode:** Standard Letter-S/U-IP

**SPA 75092 CLINICAL PRACTICUM I IN SPEECH LANGUAGE PATHOLOGY 2-3 Credit Hours**

(Slashed with SPA 65092) (Repeatable twice for credit) Supervised, introductory clinical experience in assessment and intervention with populations within the scope of practice of speech language pathology per the current practice policy of the American Speech Language Hearing Association. To facilitate clinical competency and accrual of required clinical clock hours per current ASHA standards, students are expected to enroll in clinical practicum each semester that they are not enrolled in externship or student teaching. A grade of B or better in this course is required for permission to register in CLIN PR II SPE LANG PATH-SPA 65192.

**Prerequisite:** Doctoral standing; and special approval.

**Schedule Type:** Practical Experience

**Contact Hours:** 8-12 other

**Grade Mode:** Standard Letter-IP

**SPA 75192 CLINICAL PRACTICUM II IN SPEECH LANGUAGE PATHOLOGY 2-3 Credit Hours**

(Slashed with SPA 65192) (Repeatable twice for credit) This course includes additional supervised hands on clinical experience with clients in on campus clinics. Student clinicians are provided with opportunities to demonstrate increased independence in clinical decision making and performance. Practicum requirements may include attendance at a weekly Clinical Colloquium. A grade of B or better in this course is required for permission to enroll in Clinical Practicum III in Speech Language Pathology SPA 75292.

**Prerequisite:** SPA 75092 with a minimum B grade; and doctoral standing; and special approval.

**Schedule Type:** Practical Experience

**Contact Hours:** 8-12 other

**Grade Mode:** Standard Letter-IP

**SPA 75292 CLINICAL PRACTICUM III IN SPEECH LANGUAGE PATHOLOGY 2-3 Credit Hours**

(Slashed with SPA 65292) (Repeatable twice for credit) Includes additional supervised, hands-on clinical experience with clients in on campus clinics and or off campus, supervised clinical experience in sites such as schools or long-term care facilities. Students clinicians are provided with opportunities to demonstrate levels of independence in clinical decision-making and performance that reflect readiness for externship or student teaching experiences. Practicum requirements may include attendance at a weekly clinical colloquium. A grade of B or better in this course is required for permission to register in the following courses: clinical practicum IV in speech language pathology SPA 75392, externship in speech language pathology: adult SPA 75492, externship in speech language pathology: pediatric SPA 75592, student teaching in speech language pathology SPA 64528.

**Prerequisite:** SPA 75192 with a minimum B grade; and doctoral standing; and special approval.

**Schedule Type:** Practical Experience

**Contact Hours:** 8-12 other

**Grade Mode:** Standard Letter-IP

**SPA 75392 CLINICAL PRACTICUM IV IN SPEECH LANGUAGE PATHOLOGY 2-3 Credit Hours**

(Repeatable for credit) This supervised, hands on clinical experience with clients in on campus clinics or off campus sites is for second year graduate students who are not yet scheduled for externship or student teaching. Students clinicians are provided with opportunities to demonstrate levels of independence in clinical decision making and performance that are reflective of readiness for externship or student teaching experiences. A grade of B or better in this course is required for permission to register in the following courses: externship in speech language pathology: adult SPA 75492, externship in speech language pathology: pediatric SPA 75592, student teaching in speech language pathology SPA 64528.

**Prerequisite:** SPA 75292 with a minimum B grade; and doctoral standing; and special approval.

**Schedule Type:** Practical Experience

**Contact Hours:** 8-12 other

**Grade Mode:** Standard Letter-IP

**SPA 75492 EXTERNSHIP IN SPEECH LANGUAGE PATHOLOGY: ADULT 4-8 Credit Hours**

(Cross-listed with SPA 65492) (Repeatable once for credit) Considered a culminating clinical experience. Includes supervised, hands on clinical experience with patients in adult care settings such as hospitals, rehabilitation and long term care facilities.

**Prerequisite:** SPA 75292 or SPA 75392 with a minimum B grade; and doctoral standing; and special approval.

**Schedule Type:** Practical Experience

**Contact Hours:** 20-40 other

**Grade Mode:** Standard Letter-IP

**SPA 75592 EXTERNSHIP IN SPEECH LANGUAGE PATHOLOGY: PEDIATRIC 4-8 Credit Hours**

(Slashed with SPA 65592) (Repeatable once for credit) Considered a culminating clinical experience. Students may choose this course as an alternative to Student Teaching in Speech Language Pathology. Includes supervised, hands on clinical experience with children and adolescents in pediatric care settings such as hospitals and other habilitation and rehabilitation facilities.

**Prerequisite:** SPA 75292 or SPA 75392 with a minimum B grade; and doctoral standing; and special approval.

**Schedule Type:** Practical Experience

**Contact Hours:** 20-40 other

**Grade Mode:** Standard Letter-IP

**SPA 75792 INTERNSHIP I 1 Credit Hour**

Clinical practicum in audiology during which students perform discrete tasks under supervision.

**Prerequisite:** Admission to the audiology major; and doctoral standing; and special approval.

**Corequisite:** SPA 70709.

**Schedule Type:** Practical Experience

**Contact Hours:** 18 other

**Grade Mode:** Standard Letter

**SPA 76792 INTERNSHIP II 1 Credit Hour**

Supervised clinical practicum in audiology during which students will perform discrete clinical tasks while under supervision.

**Prerequisite:** Admission to the audiology major; and SPA 75792; and doctoral standing and special approval.

**Schedule Type:** Practical Experience

**Contact Hours:** 18 other

**Grade Mode:** Standard Letter

**SPA 84091 SEMINAR IN COMMUNICATION DISORDERS 2 Credit Hours**

(Repeatable for a maximum 9 credit hours)Special topics seminar for advanced students in speech-language pathology and audiology. Presentations and discussion of research projects are required.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Seminar

**Contact Hours:** 2 other

**Grade Mode:** Standard Letter

**SPA 84096 INDIVIDUAL INVESTIGATION-SPEECH PATHOLOGY AND AUDIOLOGY 1-6 Credit Hours**

(Repeatable for a maximum of 12 credit hours)Independent study of topics to be selected in consultation with graduate faculty.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Individual Investigation

**Contact Hours:** 1-6 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**SPA 84098 RESEARCH 1-15 Credit Hours**

(Repeatable for credit)Research opportunities for doctoral students who have not yet passed their candidacy examination.

**Prerequisite:** Doctoral standing; and special approval.

**Schedule Type:** Research

**Contact Hours:** 1-15 other

**Grade Mode:** Standard Letter-S/U-IP

**SPA 84199 DISSERTATION I 15 Credit Hours**

(Repeatable for credit)Doctoral dissertation for which registration in at least two semesters is required, first of which will be semester in which dissertation work is begun and continuing until the completion of 30 hours.

**Prerequisite:** Doctoral standing; and special approval.

**Schedule Type:** Dissertation

**Contact Hours:** 15 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**SPA 84299 DISSERTATION II 15 Credit Hours**

(Repeatable for credit) Continuing registration required of doctoral students who have completed the initial 30 hours of dissertation and continuing until all degree requirements are met.

**Prerequisite:** SPA 84199; and doctoral standing; and special approval.

**Schedule Type:** Dissertation

**Contact Hours:** 15 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

## Alcohol, Tobacco and Other Drug Prevention - Undergraduate Certificate

### College of Education Health and Human Services

School of Health Sciences

100 Nixon Hall

Kent Campus

330-672-2197

[www.kent.edu/ehhs/hs](http://www.kent.edu/ehhs/hs)

## Description

The Alcohol, Tobacco and Other Drug Prevention undergraduate certificate prepares graduates to sit for the Ohio Department of Alcohol and Drug Addiction Services exams to become a certified prevention specialist in the state of Ohio.

## Fully Offered At:

- Kent Campus

## Admission Requirements

The university affirmatively strives to provide educational opportunities and access to students with varied backgrounds, those with special talents and adult students who graduated from high school three or more years ago.

**Freshman Students on the Kent Campus:** The freshman admission policy on the Kent Campus is selective. Admission decisions are based upon the following: cumulative grade point average, ACT and/or SAT scores, strength of high school college preparatory curriculum and grade trends. The Admissions Office at the Kent Campus may defer the admission of students who do not meet admissions criteria but who

demonstrate areas of promise for successful college study. Deferred applicants may begin their college coursework at one of seven regional campuses of Kent State University. For more information on admissions, including additional requirements for some academic programs, visit the admissions website for new freshmen.

**Freshman Students on the Regional Campuses:** Kent State campuses at Ashtabula, East Liverpool, Geauga, Salem, Stark, Trumbull and Tuscarawas, as well as the Regional Academic Center in Twinsburg, have open enrollment admission for students who hold a high school diploma, GED or equivalent.

**English Language Proficiency Requirements for International Students:** All international students must provide proof of English language proficiency (unless they meet specific exceptions) by earning a minimum 525 TOEFL score (71 on the Internet-based version), minimum 75 MELAB score, minimum 6.0 IELTS score or minimum 48 PTE score, or by completing the ESL level 112 Intensive Program. For more information on international admission, visit the Office of Global Education's admission website.

**Transfer, Transitioning and Former Students:** For more information about admission criteria for transfer, transitioning and former students, please visit the admissions website.

## Program Requirements

### Certificate Requirements

Code	Title	Credit Hours
<b>Certificate Requirements</b>		
HED 11570	PERSONAL HEALTH	3
HED 11590	COMMUNITY HEALTH EDUCATION	3
HED 32530	DRUG USE AND MISUSE	3
HED 32542	METHODS AND APPLICATIONS OF HEALTH EDUCATION (WIC)	5
HED 34050	PROGRAM PLANNING AND EVALUATION IN HEALTH EDUCATION	3
HED 44550	DRUG ABUSE AND VIOLENCE EDUCATION PROGRAMS	3
Minimum Total Credit Hours:		20

### Graduation Requirements

Minimum Certificate GPA	Minimum Overall GPA
2.000	2.000

## Athletic Training - B.S.

**College of Education Health and Human Services**  
 School of Health Sciences  
 100 Nixson Hall  
 Kent Campus  
 330-672-2197  
[www.kent.edu/ehhs/hs](http://www.kent.edu/ehhs/hs)

## Description

**Admission to the Bachelor of Science degree in Athletic Training will be temporarily suspended starting fall 2020.**

*Students interested in athletic training can pursue the B.S. degree in Sports Medicine, which will allow them to complete all prerequisites to enter the M.S. degree in Athletic Training.*

The Bachelor of Science degree in Athletic Training focuses on injury/illness prevention and wellness protection, immediate and emergency care, treatment and rehabilitation, clinical evaluation and diagnosis and organization and professional health and well-being.

The major consists of pre-professional and professional phases. During the pre-professional phase, students complete 80 observation hours in the athletic training room, where they are exposed to the academic and clinical requirements of athletic training. Students then apply for formal acceptance into the professional phase, where they spend three years applying academic knowledge and clinical application of athletic training skills in a variety of clinical settings, such as intercollegiate athletics, high schools, sports medicine clinics, orthopedic offices and other health care settings.

Upon graduation, students qualify to sit for the national Board of Certification examination. Athletic Training is a suitable option for students who wish to pursue a dual credential of physical therapy/athletic training.

### Fully Offered At:

- Kent Campus

## Accreditation

Commission on Accreditation of Athletic Training Education (CAATE)

## Admission Requirements

The university affirmatively strives to provide educational opportunities and access to students with varied backgrounds, those with special talents and adult students who graduated from high school three or more years ago.

**Freshman Students on the Kent Campus:** The freshman admission policy on the Kent Campus is selective. Admission decisions are based upon the following: cumulative grade point average, ACT and/or SAT scores, strength of high school college preparatory curriculum and grade trends. The Admissions Office at the Kent Campus may defer the admission of students who do not meet admissions criteria but who demonstrate areas of promise for successful college study. Deferred applicants may begin their college coursework at one of seven regional campuses of Kent State University. For more information on admissions, including additional requirements for some academic programs, visit the admissions website for new freshmen.

**Freshman Students on the Regional Campuses:** Kent State campuses at Ashtabula, East Liverpool, Geauga, Salem, Stark, Trumbull and Tuscarawas, as well as the Regional Academic Center in Twinsburg, have open enrollment admission for students who hold a high school diploma, GED or equivalent.

**English Language Proficiency Requirements for International Students:** All international students must provide proof of English language proficiency (unless they meet specific exceptions) by earning a minimum 525 TOEFL score (71 on the Internet-based version), minimum 75

MELAB score, minimum 6.0 IELTS score or minimum 48 PTE score, or by completing the ESL level 112 Intensive Program. For more information on international admission, visit the Office of Global Education's admission website.

**Transfer, Transitioning and Former Students:** For more information about admission criteria for transfer, transitioning and former students, please visit the admissions website.

## Program Learning Outcomes

Graduates of this program will be able to:

1. Apply the principles of the research process in athletic training by engaging in faculty and graduate research.
2. Apply the knowledge and skills gained through the clinical and didactic educational experiences to a variety of health care clinicians in diverse settings including equipment intensive, upper extremity intensive, lower extremity intensive and general medical exposures.
3. Engage health care professionals and apply the knowledge gained, through their education in both the classroom and clinical settings.
4. Engage in program improvement as part of a continuous quality improvement initiative by evaluating the effectiveness of the program through multiple evaluation resources.

## University Requirements

All students in a bachelor's degree program at Kent State University must complete the following university requirements for graduation.

**NOTE:** University requirements may be fulfilled in this program by specific course requirements. Please see Program Requirements for details.

Destination Kent State: First Year Experience	1
Course is not required for students with 25 transfer credits, excluding College Credit Plus, or age 21+ at time of admission.	
Diversity Domestic/Global (DIVD/DIVG)	2 courses
Students must successfully complete one domestic and one global course, of which one must be from the Kent Core.	
Experiential Learning Requirement (ELR)	varies
Students must successfully complete one course or approved experience.	
Kent Core (see table below)	36-37
Writing-Intensive Course (WIC)	1 course
Students must earn a minimum C grade in the course.	
Upper-Division Requirement	39 (or 42)
Students must successfully complete 39 upper-division (numbered 30000 to 49999) credit hours to graduate. Students in a B.A. and/or B.S. degree in the College of Arts and Sciences must complete 42 upper-division credit hours.	
Total Credit Hour Requirement	120
Some bachelor's degrees require students to complete more than 120 credit hours.	

## Kent Core Requirements

Kent Core Composition (KCMP)	6
Kent Core Mathematics and Critical Reasoning (KMCR)	3
Kent Core Humanities and Fine Arts (KHUM/KFA) (min one course each)	9
Kent Core Social Sciences (KSS) (must be from two disciplines)	6

Kent Core Basic Sciences (KBS/KLAB) (must include one laboratory)	6-7
Kent Core Additional (KADL)	6
<b>Total Credit Hours:</b>	<b>36-37</b>

## Program Requirements

### Major Requirements

Code	Title	Credit Hours
<b>Major Requirements (courses count in major GPA) (min C grade is required in all courses)</b>		
ATTR 15001	INTRODUCTION TO CLINICAL ATHLETIC TRAINING I	2
ATTR 15011	INTRODUCTION TO CLINICAL ATHLETIC TRAINING II	2
ATTR 15092	PRACTICUM IN ATHLETIC TRAINING I (ELR) <sup>1</sup>	3
ATTR 25036	RESPONDING TO EMERGENCIES	3
ATTR 25037	PHYSICAL ASSESSMENT TECHNIQUES AND KINESIOLOGY FOR THE LOWER EXTREMITY AND SPINE	3
ATTR 25038	PHYSICAL ASSESSMENT TECHNIQUES FOR THE UPPER EXTREMITY, HEAD AND NECK	3
ATTR 25057	HUMAN ANATOMY AND PHYSIOLOGY I (KBS) (KLAB) <sup>2</sup>	4
ATTR 25058	HUMAN ANATOMY AND PHYSIOLOGY II (KBS) (KLAB)	4
ATTR 25092	PRACTICUM IN ATHLETIC TRAINING II (ELR)	3
ATTR 35037	ADVANCED PHYSICAL ASSESSMENT TECHNIQUES	3
ATTR 35039	THERAPEUTIC MODALITIES	3
ATTR 35040	STRENGTH AND CONDITIONING	2
ATTR 35050	NEUROLOGICAL PROCESS FOR THE HEALTHCARE PROFESSIONAL	3
ATTR 35054	BIOMECHANICS	3
ATTR 35092	PRACTICUM IN ATHLETIC TRAINING III (ELR)	3
ATTR 43018	ETHICAL LEADERSHIP FOR HEALTH CARE (WIC)	3
ATTR 45017	PROFESSIONAL DEVELOPMENT IN ATHLETIC TRAINING	3
ATTR 45038	ORGANIZATION AND ADMINISTRATION OF ATHLETIC TRAINING	3
ATTR 45039	THERAPEUTIC REHABILITATION	3
ATTR 45040	PATHOLOGY AND PHARMACOLOGY FOR ALLIED HEALTH CARE PROVIDERS	3
ATTR 45041	ADVANCED THERAPEUTIC INTERVENTIONS	3
ATTR 45192	PRACTICUM IN ATHLETIC TRAINING IV (ELR)	3
ATTR 45292	INTERNSHIP IN ATHLETIC TRAINING I (ELR)	3
ATTR 45392	INTERNSHIP IN ATHLETIC TRAINING II (ELR)	3
<b>Additional Requirements (courses do not count in major GPA)</b>		
CHEM 10050	FUNDAMENTALS OF CHEMISTRY (KBS)	3
or CHEM 10055	MOLECULES OF LIFE (KBS)	
or CHEM 10060	GENERAL CHEMISTRY I (KBS)	
EXSC 35068	STATISTICS FOR EXERCISE SCIENTIST	3
EXSC 45080	PHYSIOLOGY OF EXERCISE (WIC)	3
HED 14020	MEDICAL TERMINOLOGY	3
NUTR 23511	SCIENCE OF HUMAN NUTRITION (KBS)	3
PSYC 11762	GENERAL PSYCHOLOGY (DIVD) (KSS)	3



SOC 32220 & SOC 32221 or IHS 44010	DATA ANALYSIS and DATA ANALYSIS LABORATORY RESEARCH DESIGN AND STATISTICAL METHODS IN THE HEALTH PROFESSIONS	3-4
UC 10097	DESTINATION KENT STATE: FIRST YEAR EXPERIENCE	1
Kent Core Composition		6
Kent Core Mathematics and Critical Reasoning		3
Kent Core Humanities or Fine Arts (minimum one course from each)		9
Kent Core Social Sciences (must be from two disciplines)		3
General Electives (total credit hours depends on earning 120 credit hours, including 39 upper-division credit hours)		6
Minimum Total Credit Hours:		120

<sup>1</sup> See progression requirements for information on registering for ATTR 15092.

<sup>2</sup> Students who have successfully completed either BSCI 11010/BSCI 11020 or BSCI 21010/BSCI 21020 or EXSC 25057/EXSC 25058 with a minimum C grade may use those courses in place of ATTR 25057 or ATTR 25058.

## Progression Requirements

Advancement into the professional phase of the athletic training program is selective and is limited. Limited admission will ensure that an appropriate student to preceptor ratio (approximately 8:1) is maintained.

Advancement to the professional program is controlled through the first practicum course (ATTR 15092). In order to be eligible for ATTR 15092, students must:

- Earn a minimum C grade in ATTR 15001, ATTR 15011 ATTR 25036 and ATTR 25057
- Make a formal application to the professional phase of the program
- Provide three professional letters of reference
- Complete 120 hours of directed observation experiences under the direct supervision of an athletic trainer
- Secure first aid and CPR certification
- Successfully complete an oral and written exam administered through ATTR 15011
- Secure staff evaluations and complete a self-administered evaluation
- Complete an interview with the professional athletic training staff

After these requirements have been fulfilled, students may be selected for advancement into the professional phase of the program based upon their competitive rank using their GPA (15 percent), evaluation scores (40 percent), interview scores (20 percent) and ATTR 15011 written (10 percent) and oral (15 percent) practical exam scores.

Students selected into the program will have a cumulative score of minimally 70 percent to be considered eligible for admission. Those selected may enroll in ATTR 15092 during the following semester.

Students who have transferred to Kent State University must complete a directed observation period at Kent State prior to advancement into the professional phase of the program. Prompt commencement of the directed observation period is necessary as it will take a minimum of six semesters at Kent State to complete the clinical courses and experiences in the professional phase.

All Athletic Training Students who are admitted into the professional phase of the program will be required to obtain a Bureau of Criminal Investigation Identification (BCII) and Federal Bureau of Investigation (FBI) background checks prior to beginning their clinical rotations for the fall semester of each year.

Students who are not selected for the professional phase of this program at the completion of spring 2020 will not be permitted to apply/reapply and will work with the program coordinator to identify alternate academic programs to pursue.

## Graduation Requirements

Minimum Major GPA	Minimum Overall GPA
2.500	2.500

- Minimum C grade is required in all ATTR coursework.

## Roadmap

This roadmap is a recommended semester-by-semester plan of study for this major. However, courses designated as critical (!) must be completed in the semester listed to ensure a timely graduation.

Semester One		Credits
!	ATTR 15001 INTRODUCTION TO CLINICAL ATHLETIC TRAINING I	2
!	ATTR 25036 RESPONDING TO EMERGENCIES	3
	UC 10097 DESTINATION KENT STATE: FIRST YEAR EXPERIENCE	1
	Kent Core Requirement	3
	Kent Core Requirement	3
	Kent Core Requirement	3
	Credit Hours	15
Semester Two		
!	ATTR 15011 INTRODUCTION TO CLINICAL ATHLETIC TRAINING II	2
!	ATTR 25057 HUMAN ANATOMY AND PHYSIOLOGY I (KBS) (KLAB)	4
	CHEM 10050 FUNDAMENTALS OF CHEMISTRY (KBS) or CHEM 10055 or MOLECULES OF LIFE (KBS) or CHEM 10060 or GENERAL CHEMISTRY I (KBS)	3
	HED 14020 MEDICAL TERMINOLOGY	3
	NUTR 23511 SCIENCE OF HUMAN NUTRITION (KBS)	3
	Credit Hours	15
Semester Three		
	Requirements: first aid and CPR certification; acceptance to the professional phase of the program	
!	ATTR 15092 PRACTICUM IN ATHLETIC TRAINING I (ELR)	3
!	ATTR 25037 PHYSICAL ASSESSMENT TECHNIQUES AND KINESIOLOGY FOR THE LOWER EXTREMITY AND SPINE	3
	ATTR 35040 STRENGTH AND CONDITIONING	2
	Kent Core Requirement	3
	Kent Core Requirement	3
	Credit Hours	14
Semester Four		
!	ATTR 25038 PHYSICAL ASSESSMENT TECHNIQUES FOR THE UPPER EXTREMITY, HEAD AND NECK	3
!	ATTR 25092 PRACTICUM IN ATHLETIC TRAINING II (ELR)	3



!	ATTR 35039	THERAPEUTIC MODALITIES	3
	ATTR 35054	BIOMECHANICS	3
	PSYC 11762	GENERAL PSYCHOLOGY (DIVD) (KSS)	3
Credit Hours			15
<b>Semester Five</b>			
	ATTR 25058	HUMAN ANATOMY AND PHYSIOLOGY II (KBS) (KLAB)	4
!	ATTR 35092	PRACTICUM IN ATHLETIC TRAINING III (ELR)	3
!	ATTR 45039	THERAPEUTIC REHABILITATION	3
	EXSC 35068	STATISTICS FOR EXERCISE SCIENTIST	3
Kent Core Requirement			3
Credit Hours			16
<b>Semester Six</b>			
!	ATTR 35037	ADVANCED PHYSICAL ASSESSMENT TECHNIQUES	3
!	ATTR 35050	NEUROLOGICAL PROCESS FOR THE HEALTHCARE PROFESSIONAL	3
!	ATTR 45041	ADVANCED THERAPEUTIC INTERVENTIONS	3
!	ATTR 45192	PRACTICUM IN ATHLETIC TRAINING IV (ELR)	3
Kent Core Requirement			3
Credit Hours			15
<b>Semester Seven</b>			
!	ATTR 45017	PROFESSIONAL DEVELOPMENT IN ATHLETIC TRAINING	3
!	ATTR 45038	ORGANIZATION AND ADMINISTRATION OF ATHLETIC TRAINING	3
!	ATTR 45040	PATHOLOGY AND PHARMACOLOGY FOR ALLIED HEALTH CARE PROVIDERS	3
!	ATTR 45292	INTERNSHIP IN ATHLETIC TRAINING I (ELR)	3
	EXSC 45080	PHYSIOLOGY OF EXERCISE (WIC)	3
Credit Hours			15
<b>Semester Eight</b>			
!	ATTR 43018	ETHICAL LEADERSHIP FOR HEALTH CARE (WIC)	3
!	ATTR 45392	INTERNSHIP IN ATHLETIC TRAINING II (ELR)	3
	SOC 32220	DATA ANALYSIS	3-4
	& SOC 32221	and DATA ANALYSIS LABORATORY	
	or IHS 44010	or RESEARCH DESIGN AND STATISTICAL METHODS IN THE HEALTH PROFESSIONS	
General Electives			6
Credit Hours			15
Minimum Total Credit Hours:			120

## Athletic Training - M.S.

### College of Education Health and Human Services

School of Health Sciences

100 Nixson Hall

Kent Campus

330-672-2197

www.kent.edu/ehhs/hs

## Description

The Master of Science degree in Athletic Training prepares graduate for the athletic training profession. The program emphasizes both ethics and research across the curriculum to integrate theory to practice, and is designed to facilitate inter-professional practice as athletic trainers engage actively with professionals across the health care disciplines.

The Athletic Training major is a two-calendar year program with summer academic work. The curriculum focuses on building clinical and didactic knowledge and skills anchored in evidence-based practice, while developing strong research skills by developing not only critical analysis skills, but also investigative research skills. Students are exposed to and actively engage with state-of-the-art equipment in professional health care facilities and are mentored by highly recognized professionals. The program fosters inter-professional collaboration to promote professional development for the students who will be practicing and researching in inter-disciplinary teams. Students have the ability to critically evaluate and complete scientific research at the end of their academic program, in addition to preparing for the Board of Certification national credentialing examination.

### Fully Offered At:

- Kent Campus

## Accreditation

Commission on the Accreditation of Athletic Training Education

## Admission Requirements

- Bachelor's degree from an accredited college or university for unconditional admission
- Minimum 3.000 undergraduate GPA on a 4.000 point scale for unconditional admission
- Completion of prerequisite courses with minimum C grade<sup>1</sup>
- Official transcript(s)
- GRE or MCAT scores in the 50<sup>th</sup> percentile
- Goal statement
- Two letters of recommendation
- English language proficiency - all international students must provide proof of English language proficiency (unless they meet specific exceptions) by earning one of the following:
  - Minimum 587 TOEFL PBT score (paper-based version)
  - Minimum 94 TOEFL IBT score (Internet-based version)
  - Minimum 82 MELAB score
  - Minimum 7.0 IELTS score
  - Minimum 65 PTE score
  - Minimum 110 Duolingo English Test score

For more information about graduate admissions, please visit the Graduate Studies admission website. For more information on international admission, visit the Office of Global Education's admission website.

<sup>1</sup> Applicants will be expected to have substantial preparation in the sciences, usually including coursework in biology, basic athletic training, biomechanics, anatomy and physiology (including exercise physiology), chemistry, research, physics, nutrition and general psychology. Prerequisites will be evaluated for course content to ensure appropriate applicability for the program. Due to the program's highly prescriptive requirements, students cannot transfer in coursework directly into the Athletic Training major.

## Program Learning Outcomes

Graduates of this program will be able to:

1. Successfully challenge the Board of Certification (BOC) national credentialing exam
2. Demonstrate understanding of and competency in the domains of athletic training as defined by the BOC Practice Analysis and Commission on Accreditation of Athletic Training Education (CAATE) 2020 Standards for Accreditation of Professional Athletic Training Programs, Master's Degree Programs.
3. Demonstrate competency in evaluating and completing scientific research and evidence-based practice.
4. Demonstrate competency in engaging in a variety of clinical practice settings related to athletic training with engagement in an inter-professional environment.
5. Apply the principles of the research process in athletic training.

## Program Requirements

### Major Requirements

Code	Title	Credit Hours
<b>Major Requirements</b>		
ATTR 53018	ETHICAL LEADERSHIP FOR HEALTH CARE	3
ATTR 60000	CADAVER ANATOMY AND APPLIED ASSESSMENT	6
ATTR 61000	ACUTE INJURY DIAGNOSIS, TREATMENT AND MANAGEMENT	3
ATTR 62010	CONTEMPORARY ISSUES IN ATHLETIC TRAINING	3
ATTR 62014	ADVANCED CLINICAL PROCEDURES IN ATHLETIC TRAINING AND SPORTS MEDICINE	3
ATTR 62016	CLINICAL INQUIRY IN ATHLETIC TRAINING	3
ATTR 63098	RESEARCH	1-15
ATTR 65001	CLINICAL PRACTICE I: PREVENTION AND WELLNESS	3
ATTR 65002	CLINICAL PRACTICE II: ADVANCED HEAD, NECK AND ORTHOPEDIC	3
ATTR 65003	CLINICAL PRACTICE III: GENERAL MEDICAL	3
ATTR 65005	CLINICAL PRACTICE IV: ADVANCED COMPETENCIES	3
ATTR 65037	PHYSICAL AGENTS IN ATHLETIC TRAINING AND SPORTS MEDICINE	3
ATTR 65038	ADMINISTRATION CONCEPTS FOR THE HEALTHCARE PROFESSIONAL	3
ATTR 65039	PHYSICAL REHABILITATION IN ATHLETIC TRAINING AND SPORTS MEDICINE	3
ATTR 65040	PATHOPHARMACOLOGY FOR HEALTHCARE PROVIDERS	3
ATTR 65050	NEUROLOGICAL CONCEPTS FOR THE HEALTHCARE PROFESSIONAL	3
ATTR 69999	CLINICAL CAPSTONE IN ATHLETIC TRAINING	6
EXPH 63051	QUANTITATIVE AND RESEARCH METHODS IN ATHLETIC TRAINING AND EXERCISE PHYSIOLOGY	3
Minimum Total Credit Hours:		60

### Roadmap

This roadmap is a recommended semester-by-semester plan of study for this major. However, courses designated as critical (!) must be completed in the semester listed to ensure a timely graduation.

Summer 1		Credits
ATTR 60000	CADAVER ANATOMY AND APPLIED ASSESSMENT	6
ATTR 61000	ACUTE INJURY DIAGNOSIS, TREATMENT AND MANAGEMENT	3
ATTR 65037	PHYSICAL AGENTS IN ATHLETIC TRAINING AND SPORTS MEDICINE	3
Credit Hours		12
<b>Summer 2</b>		
ATTR 63018		3
ATTR 63098	RESEARCH	1-15
ATTR 69999	CLINICAL CAPSTONE IN ATHLETIC TRAINING	6
Credit Hours		12
<b>Semester One</b>		
ATTR 62016	CLINICAL INQUIRY IN ATHLETIC TRAINING	3
ATTR 65001	CLINICAL PRACTICE I: PREVENTION AND WELLNESS	3
ATTR 65039	PHYSICAL REHABILITATION IN ATHLETIC TRAINING AND SPORTS MEDICINE	3
Credit Hours		9
<b>Semester Two</b>		
ATTR 65002	CLINICAL PRACTICE II: ADVANCED HEAD, NECK AND ORTHOPEDIC	3
ATTR 65050	NEUROLOGICAL CONCEPTS FOR THE HEALTHCARE PROFESSIONAL	3
EXPH 63051	QUANTITATIVE AND RESEARCH METHODS IN ATHLETIC TRAINING AND EXERCISE PHYSIOLOGY	3
Credit Hours		9
<b>Semester Three</b>		
ATTR 62014	ADVANCED CLINICAL PROCEDURES IN ATHLETIC TRAINING AND SPORTS MEDICINE	3
ATTR 65003	CLINICAL PRACTICE III: GENERAL MEDICAL	3
ATTR 65038	ADMINISTRATION CONCEPTS FOR THE HEALTHCARE PROFESSIONAL	3
Credit Hours		9
<b>Semester Four</b>		
ATTR 62010	CONTEMPORARY ISSUES IN ATHLETIC TRAINING	3
ATTR 65005	CLINICAL PRACTICE IV: ADVANCED COMPETENCIES	3
ATTR 65040	PATHOPHARMACOLOGY FOR HEALTHCARE PROVIDERS	3
Credit Hours		9
Minimum Total Credit Hours:		60

## Audiology - Au.D.

### College of Education Health and Human Services

School of Health Sciences  
 100 Nixson Hall  
 Kent Campus  
 330-672-2197  
 oss@kent.edu  
 www.kent.edu/ehhs/hs

## Description

The Doctor of Audiology degree is a professional doctorate that prepares students to be licensed clinical audiologists. The program emphasizes the principles and practices underlying evaluation, treatment and provision of hearing care services. Graduates are independent professionals who specialize in the diagnosis, management and treatment of hearing and balance disorders.

The Au.D. degree is a full-time, continuous, 48-month post-baccalaureate course of study designed to integrate classroom, laboratory and clinical experiences, culminating in the qualification for national certification and state (Ohio) licensure as an audiologist. All students attend full-time and take a fixed sequence of classroom- and clinic-based courses.

The Au.D. may be undertaken in conjunction with Kent State's Ph.D. degree program.

The Au.D. degree in Audiology is offered in consortium with the Cleveland Clinic and the University of Akron.

### Fully Offered At:

- Kent Campus

## Accreditation

Council on Academic Accreditation in Audiology and Speech-Language Pathology

## Admission Requirements

- Bachelor's degree or higher from an accredited college or university (not necessarily in speech-language pathology and audiology) for unconditional admission
- Minimum 3.000 GPA on a 4.000 point scale for unconditional admission
- Official college transcript(s)
- GRE scores
- Goal statement
- Three letters of recommendation
- English language proficiency - all international students must provide proof of English language proficiency (unless they meet specific exceptions) by earning one of the following:
  - Minimum 587 TOEFL PBT score (paper-based version)
  - Minimum 94 TOEFL IBT score (Internet-based version)
  - Minimum 82 MELAB score
  - Minimum 7.0 IELTS score
  - Minimum 65 PTE score
  - Minimum 120 Duolingo English Test score

For more information about graduate admissions, please visit the Graduate Studies admission website. For more information on international admission, visit the Office of Global Education's admission website.

## Program Learning Outcomes

Graduates of this program will be able to:

1. Demonstrate knowledge of standards of ethical conduct.
2. Apply knowledge of the principles and methods of prevention, assessment and intervention for people with hearing impairments.
3. Demonstrate knowledge about certification, specialty recognition, licensure and other relevant professional issues.
4. Demonstrate knowledge of contemporary professional issues.
5. Apply knowledge of research processes by integration of research principles into evidence-based practice.
6. Demonstrate skill in oral and written and other forms of communication sufficient for entry into professional practice.
7. Apply knowledge of and experience with individuals from culturally/linguistically diverse backgrounds with client/patient populations across the lifespan.

## Program Requirements

### Major Requirements

Code	Title	Credit Hours
<b>Major Requirements</b>		
SPA 70615	CENTRAL AUDITORY PROCESSING EVALUATION AND MANAGEMENT	2
SPA 70616	HEARING AID FITTING AND SELECTION ACROSS THE LIFESPAN	4
SPA 70618	IMPLANTABLE TECHNOLOGY	4
SPA 70627	MULTICULTURAL ISSUES IN AUDIOLOGY	2
SPA 70630	PRACTICE MANAGEMENT IN AUDIOLOGY	3
SPA 70691	SEMINAR IN AUDIOLOGY	2
SPA 70701	BASIC AND APPLIED PHYSICAL ACOUSTICS FOR AUDIOLOGY	4
SPA 70702	ANATOMY AND PHYSIOLOGY OF PERIPHERAL AUDITORY AND VESTIBULAR SYSTEMS	3
SPA 70703	ACOUSTIC PHONETICS	3
SPA 70704	CRITICAL ANALYSIS OF RESEARCH IN AUDIOLOGY	2
SPA 70705	AUDITORY DISORDERS	2
SPA 70706	ANATOMY AND PHYSIOLOGY UNDERLYING NEURO-OTOLOGY	4
SPA 70707	PSYCHOACOUSTICS	3
SPA 70708	CRITICAL ANALYSIS OF RESEARCH	2
SPA 70709	AUDIOLOGIC ASSESSMENT	3
SPA 70710	INDUSTRY AND COMMUNITY NOISE	3
SPA 70712	DIAGNOSIS OF AUDITORY DISORDERS	3
SPA 70713	HEARING AID TECHNOLOGY	4
SPA 70714	GERONTOLOGICAL ISSUES IN AUDIOLOGY	3
SPA 70717	PEDIATRIC AUDIOLOGY	3
SPA 70719	COUNSELING IN AUDIOLOGY	3
SPA 70721	EVALUATION AND MANAGEMENT OF BALANCE DISORDERS	3
SPA 70725	MEDICAL MANAGEMENT OF AUDITORY DISORDERS	2
SPA 70726	ELECTROPHYSIOLOGICAL TECHNIQUES IN AUDIOLOGY	3
SPA 70732	AUDIOLOGIC TREATMENT ACROSS THE LIFESPAN	4
SPA 70733	ADVANCED ELECTROPHYSIOLOGIC AND VESTIBULAR MEASURES	4
SPA 70734	PRINCIPLES IN PRECEPTING	1
SPA 70747	GRADUATE AUDIOLOGIST I	3

SPA 70748	GRADUATE AUDIOLOGIST II	3
SPA 70750	GRADUATE AUDIOLOGIST IV	8
SPA 70753	LABORATORY FOR ELECTROPHYSIOLOGICAL TECHNIQUES IN AUDIOLOGY	1
SPA 70754	LABORATORY FOR EVALUATION AND MANAGEMENT OF BALANCE DISORDERS	1
SPA 70755	LABORATORY FOR ADVANCED ELECTROPHYSIOLOGIC AND VESTIBULAR MEASURES	1
SPA 70791	FOURTH YEAR SEMINAR (course is repeatable)	2
SPA 70892	INTERNSHIP III	2
SPA 70992	INTERNSHIP IV	2
SPA 74592	CLERKSHIP I	1
SPA 74692	CLERKSHIP II	1
SPA 74792	GRADUATE AUDIOLOGIST III	6
SPA 74892	GRADUATE AUDIOLOGIST V	8
SPA 75792	INTERNSHIP I	1
SPA 76792	INTERNSHIP II	1
Minimum Total Credit Hours:		120

## Graduation Requirements

Minimum Major GPA	Minimum Overall GPA
-	3.000

- Accrue 2000 clock hours of clinical experience
- Meet the requirements for conditional Ohio licensure in audiology
- Pass academic and clinical competency-based examinations

## Clinical Setting

For any clinical practicum (on campus or off campus) in speech pathology or audiology that requires candidates to be placed within the on-campus speech and hearing clinics, school or agency setting, the SPA program requires candidates to complete Bureau of Criminal Investigation and Identification (BCII) and Federal Bureau of Investigation (FBI) background check and submit the results to authorized personnel at their assigned clinic/school/agency before the beginning of their placement or the first day of the semester in which the practicum will take place. Authorized school/agency personnel will determine whether a candidate may participate in practicum in the off-campus setting. The BCII and FBI background checks are good for one year and the candidates will need to complete one each year that they are in graduate school.

Electronic fingerprinting is available for BCII and FBI in 221 White Hall and should be completed one month prior to clinical practicum. Candidates are responsible for fees incurred for this requirement. For more

## Audiology - M.A.

### College of Education Health and Human Services

School of Health Sciences  
100 Nixon Hall  
Kent Campus  
330-672-2197  
www.kent.edu/ehhs/hs

## Description

The Master of Arts degree in Audiology is an advanced non-clinical degree program designed for those students seeking careers in hearing and acoustics. Those interested in becoming a licensed clinical audiologist should apply to the Doctor of Audiology degree program.

## Fully Offered At:

- Kent Campus

## Admission Requirements

- Bachelor's degree from an accredited college or university (not necessarily in speech-language pathology and audiology) for unconditional admission
- Minimum 3.000 undergraduate GPA on a 4.000 point scale for unconditional admission
- Official college transcript(s)
- GRE scores
- Goal statement
- Three letters of recommendation
- English language proficiency - all international students must provide proof of English language proficiency (unless they meet specific exceptions) by earning one of the following:
  - Minimum 587 TOEFL PBT score (paper-based version)
  - Minimum 94 TOEFL IBT score (Internet-based version)
  - Minimum 82 MELAB score
  - Minimum 7.0 IELTS score
  - Minimum 65 PTE score
  - Minimum 120 Duolingo English Test score

For more information about graduate admissions, please visit the Graduate Studies admission website. For more information on international admission, visit the Office of Global Education's admission website.

## Program Requirements

### Major Requirements

Code	Title	Credit Hours
<b>Major Requirements</b>		
	Courswork in consultation with academic faculty advisor	30
Minimum Total Credit Hours:		30

## Clinical Settings

For any clinical practicum (on campus or off campus) in speech pathology or audiology that requires candidates to be placed within the on-campus speech and hearing clinics, school or agency setting, the SPA program requires candidates to complete Bureau of Criminal Investigation and Identification (BCII) and Federal Bureau of Investigation (FBI) background check and submit the results to authorized personnel at their assigned clinic/school/agency before the beginning of their placement or the first day of the semester in which the practicum will take place. Authorized school/agency personnel will determine whether a candidate may participate in practicum in the off-campus setting. The BCII and FBI background checks are good for one year and the

candidates will need to complete one each year that they are in graduate school.

Electronic fingerprinting is available for BCII and FBI in 221 White Hall and should be completed one month prior to clinical practicum. Candidates are responsible for fees incurred for this requirement. For more information on this policy contact the Clinical Coordinators for the Speech and Hearing Clinics. Visit the Ohio Department of Education website for more information about background check requirements for those wishing to hold pupil personnel licenses in Ohio. Contact the Office of Professional Conduct at the Ohio Department of Education for specific information about the results of the background check.

## Audiology - Ph.D.

### College of Education Health and Human Services

School of Health Sciences

100 Nixon Hall

Kent Campus

330-672-2197

oss@kent.edu

www.kent.edu/ehhs/hs

## Description

The Ph.D. degree in Audiology provides the student with a strong theoretical background and research competencies in communication processes and/or disorders and is ideal for those interested academic and research careers in communication sciences. This program may be undertaken simultaneously or sequentially with the Doctor of Audiology degree.

Students may be in the Ph.D. program on a part-time basis; however, all students must meet a residency requirement with two consecutive semesters of full-time enrollment prior to acceptance into candidacy.

### Fully Offered At:

- Kent Campus

## Accreditation

Council on Academic Accreditation in Audiology and Speech-Language Pathology

## Admission Requirements

- Bachelor's degree or higher from an accredited college or university (not necessarily in speech-language pathology and audiology) for unconditional admission
- Minimum 3.000 GPA on a 4.000 point scale (minimum 3.500 graduate GPA is recommended) for unconditional admission
- Official college transcript(s)
- GRE scores (recommended score of 50th percentile or higher)
- Goal statement
- Three letters of recommendation
- English language proficiency - all international students must provide proof of English language proficiency (unless they meet specific exceptions) by earning one of the following:

- Minimum 587 TOEFL PBT score (paper-based version)
- Minimum 94 TOEFL IBT score (Internet-based version)
- Minimum 82 MELAB score
- Minimum 7.0 IELTS score
- Minimum 65 PTE score
- Minimum 120 Duolingo English Test score

For more information about graduate admissions, please visit the Graduate Studies admission website. For more information on international admission, visit the Office of Global Education's admission website.

## Program Learning Outcomes

Graduates of this program will be able to:

1. Demonstrate competency within one major and two cognate areas of expertise.
2. Demonstrate skills necessary to develop, implement and evaluate a line of individual research.
3. Demonstrate oral and written communication skills and synthesis/application of materials needed to teach within a clinical and/or didactic context.

## Program Requirements

### Major Requirements

Code	Title	Credit Hours
<b>Major Requirements</b>		
	Major Area of Study <sup>1</sup>	24
	Two Cognate Areas of Study <sup>2</sup>	15
	Statistics and Research Design Coursework	6
SPA 84199	DISSERTATION I <sup>3</sup>	30
Minimum Total Credit Hours:		75

- <sup>1</sup> This collection of coursework relates to the students' main areas of interest. It typically consists of lecture classes, seminars and independent studies. Included within the 24 credit hours are 4 credit hours of colloquium and 3 credit hours of research design. The colloquium provides information about areas that are of common interest to doctoral students regardless of specialties. Included are such topics as grant and manuscript writing, clinical and departmental administration, supervision and professional presentations.
- <sup>2</sup> Courses that complement the students' interests in the cognates may be taken in other program areas (such as psychology, business, biology, counseling and special education); within speech pathology and audiology; or from an affiliated medical school.
- <sup>3</sup> Upon admission to candidacy, each doctoral candidate must register for Dissertation I. It is expected that a doctoral candidate will continuously register for Dissertation I for a total of 30 credit hours, and thereafter Dissertation II, each semester until all requirements for the degree have been met.

### Comprehensive Examination

Students who have not completed a master's thesis are required to complete and defend a research project prior to taking their comprehensive examination. Students must maintain a minimum 3.000



overall grade point average throughout the program. After completion of doctoral coursework, students take the candidacy examinations, consisting of both written and oral portions. The written portion entails 16-20 hours of writing on material studies within the major and minor concentrations as predetermined by the examination committee. The oral portion occurs two to four weeks later and can cover pertinent general information in addition to that covered on the written portion. Successful completion of these examinations culminates in 'admission to candidacy' and allows the candidate to begin work on the dissertation.

## Clinical Setting

For any clinical practicum (on campus or off campus) in speech pathology or audiology that requires candidates to be placed within the on-campus speech and hearing clinics, school or agency setting, the SPA program requires candidates to complete Bureau of Criminal Investigation and Identification (BCII) and Federal Bureau of Investigation (FBI) background check and submit the results to authorized personnel at their assigned clinic/school/agency before the beginning of their placement or the first day of the semester in which the practicum will take place. Authorized school/agency personnel will determine whether a candidate may participate in practicum in the off-campus setting. The BCII and FBI background checks are good for one year and the candidates will need to complete one each year that they are in graduate school.

Electronic fingerprinting is available for BCII and FBI in 221 White Hall and should be completed one month prior to clinical practicum. Candidates are responsible for fees incurred for this requirement. For more information on this policy contact the Clinical Coordinators for the Speech and Hearing Clinics. Visit the Ohio Department of Education website for more information about background check requirements for those wishing to hold pupil personnel licenses in Ohio. Contact the Office of Professional Conduct at the Ohio Department of Education for specific information about the results of the background check.

## Licensure Information

Candidates seeking Audiology licensure are required to pass Praxis II test Audiology.

# Community Health Education - B.S.

## College of Education Health and Human Services

School of Health Sciences

100 Nixon Hall

Kent Campus

330-672-2197

[www.kent.edu/ehhs/hs](http://www.kent.edu/ehhs/hs)

## Description

The Bachelor of Science degree in Community Health Education gives students the necessary tools to plan, implement and evaluate health education programs for individuals, communities and groups. The major features a capstone internship experience during which the student works with a health educator in a community setting. The program qualifies students to take the Certified Health Education Specialist Exam administered by the National Commission for Health Education Credentialing.

State/Federal background checks may be required for practicum/ internship experiences.

## Fully Offered At:

- Kent Campus

## Admission Requirements

**Freshman Students:** Admission to this major is selective. To be admitted directly into Community Health Education, it is required that new freshmen have a 2.750 high school GPA. Students who do not meet the GPA requirement at the time of admission for this major will be admitted to the EHHS General non-degree program until which time they have established a Kent State GPA of 2.750. They may then submit a change of program to declare this major.

**Current Kent State and Transfer Students:** Active Kent State students who wish to change their major must have attempted a minimum 12 credit hours at Kent State and meet all admission criteria listed above to be admitted. Students who have not attempted 12 credit hours at Kent State will be evaluated for admission based on their high school GPA for new students or transfer GPA for transfer students. Transfer students who have not attempted 12 credit hours of college-level coursework at Kent State and/or other institutions will be evaluated based on both their high school GPA and college GPA.

**English Language Proficiency Requirements for International Students:** All international students must provide proof of English language proficiency (unless they meet specific exceptions) by earning a minimum 525 TOEFL score (71 on the Internet-based version), minimum 75 MELAB score, minimum 6.0 IELTS score or minimum 48 PTE Academic score, or by completing the ELS level 112 Intensive Program. For more information on international admission, visit the Office of Global Education's admission website.

## Program Learning Outcomes

Graduates of the program will be able to:

1. Conduct strategic planning, analyze the organization's culture in relationship to program goals, facilitate cooperation between and among levels of program personnel, formulate practical modes of collaboration among health agencies and organizations and develop volunteer opportunities.
2. Exhibit competence in carrying out planned educational programs; employ a wide range of educational methods and techniques, apply individual and group process methods as appropriate to given learning situations and select methods that best facilitate the practice of program objectives; infer enabling objectives as needed to implement instructional programs in specified settings, select methods and media best suited to implement program plans for specific learners and determine the availability of information, personnel, time and equipment needed to implement the program for a given audience; monitor educational programs, adjusting objectives and activities as necessary; and use the code of ethics in professional practice.
3. Analyze factors the influence decision-makers, assess the appropriateness of language in health education messages and select a variety of communication methods and techniques in providing health information; demonstrate proficiency in communicating health information and health education needs and respond to public input regarding health education information;

identify the significance and implications of health care providers' messages to consumers; and develop a personal plan for professional growth.

4. Utilize computerized health information retrieval system effectively and match an information need with the appropriate retrieval system; access online and other health information resources and interpret and select effective educational resource materials for dissemination; assemble educational material of value to the health of individuals and community groups, evaluate the worth and applicability of resource materials for given audiences and refer requesters to valid sources of information; and apply various processes in the acquisition of resource materials, compare different methods for distributing educational materials and analyze parameters of effective consultative relationships.
5. Obtain health-related data about social and cultural environments, growth and development factors, needs and interests, select valid sources of information about health needs and interests and utilize computerized sources of health-related information; employ or develop appropriate data-gathering instruments; distinguish between behaviors that foster and those that hinder well-being and investigate physical, social, emotional and intellectual factors that influence health behaviors; and analyze needs assessments.
6. Synthesize information presented in the literature, develop plans to assess achievement of program objectives, determine standards of performance to be applied as criteria of effectiveness and select appropriate methods for evaluating program effectiveness; carry out evaluation plans, utilize data collecting methods appropriate to the objectives and analyze resulting evaluation data; and interpret results of program evaluation and infer implications from findings for future program planning.
7. Communicate need for the program to those who will be involved; develop a logical scope and sequence plan for a health education program; organize the subject areas comprising the scope of a program in logical sequence; formulate appropriate and measurable program objectives, design educational programs consistent with specified program objectives; match proposed learning activities with those implicit in the stated objectives; select strategies best suited to implementation of educational objectives in a given setting; and plan a sequence of learning opportunities building upon and reinforcing mastery of preceding objectives.

## University Requirements

All students in a bachelor's degree program at Kent State University must complete the following university requirements for graduation.

**NOTE:** University requirements may be fulfilled in this program by specific course requirements. Please see Program Requirements for details.

Destination Kent State: First Year Experience	1
Course is not required for students with 25 transfer credits, excluding College Credit Plus, or age 21+ at time of admission.	
Diversity Domestic/Global (DIVD/DIVG)	2 courses
Students must successfully complete one domestic and one global course, of which one must be from the Kent Core.	
Experiential Learning Requirement (ELR)	varies
Students must successfully complete one course or approved experience.	
Kent Core (see table below)	36-37
Writing-Intensive Course (WIC)	1 course

Students must earn a minimum C grade in the course.

Upper-Division Requirement	39 (or 42)
Students must successfully complete 39 upper-division (numbered 30000 to 49999) credit hours to graduate. Students in a B.A. and/or B.S. degree in the College of Arts and Sciences must complete 42 upper-division credit hours.	
Total Credit Hour Requirement	120
Some bachelor's degrees require students to complete more than 120 credit hours.	

## Kent Core Requirements

Kent Core Composition (KCMP)	6
Kent Core Mathematics and Critical Reasoning (KMCR)	3
Kent Core Humanities and Fine Arts (KHUM/KFA) (min one course each)	9
Kent Core Social Sciences (KSS) (must be from two disciplines)	6
Kent Core Basic Sciences (KBS/KLAB) (must include one laboratory)	6-7
Kent Core Additional (KADL)	6
<b>Total Credit Hours:</b>	<b>36-37</b>

## Program Requirements

### Major Requirements

Code	Title	Credit Hours
<b>Major Requirements (courses count in major GPA)</b>		
HED 32565	MARKETING IN HEALTH EDUCATION (min C grade)	3
HED 11570	PERSONAL HEALTH (min C grade)	3
HED 11590	COMMUNITY HEALTH EDUCATION (min C grade)	3
HED 21030	INTRODUCTION TO HEALTH EDUCATION (min C grade)	3
HED 21050	HEALTH EDUCATION THEORIES (min C grade)	3
HED 32542	METHODS AND APPLICATIONS OF HEALTH EDUCATION (WIC) (min C grade)	5
HED 32544	HUMAN SEXUALITY (min C grade)	3
HED 34050	PROGRAM PLANNING AND EVALUATION IN HEALTH EDUCATION (min C grade)	3
HED 44092	INTERNSHIP IN COMMUNITY HEALTH EDUCATION (ELR) (min S grade)	9
Choose from the following (min C grade):		3-4
PH 30002	INTRODUCTORY BIostatISTICS	
PSYC 21621	QUANTITATIVE METHODS IN PSYCHOLOGY I	
SOC 32220 & SOC 32221	DATA ANALYSIS and DATA ANALYSIS LABORATORY	
<b>Additional Requirements (courses do not count in major GPA)</b>		
BSCI 10001	HUMAN BIOLOGY (KBS) (min C grade)	3
COMM 15000	INTRODUCTION TO HUMAN COMMUNICATION (KADL) (min C grade)	3
ETEC 39525	EDUCATIONAL TECHNOLOGY	3
ETEC 47427 or ETEC 47400	TECHNOLOGY AND LEARNING TRENDS IN EDUCATIONAL TECHNOLOGY	3
JMC 20001	MEDIA, POWER AND CULTURE (DIVD) (KSS)	3
JMC 20005	FUNDAMENTALS OF MEDIA MESSAGES	3
NUTR 23511	SCIENCE OF HUMAN NUTRITION (KBS)	3
PH 30006	INTRODUCTION TO ENVIRONMENTAL HEALTH AND SAFETY	3

PWS 10035	LIFETIME FITNESS	2
PHIL 11001	INTRODUCTION TO PHILOSOPHY (DIVG) (KHUM)	3
or PHIL 21001	INTRODUCTION TO ETHICS (DIVG) (KHUM)	
UC 10097	DESTINATION KENT STATE: FIRST YEAR EXPERIENCE	1
Health Education (HED) Electives, choose from the following:		18
HED 14020	MEDICAL TERMINOLOGY	
HED 32530	DRUG USE AND MISUSE	
HED 32575	CONSUMER HEALTH	
HED 34060	SMALL GROUP PROCESS	
HED 42041	HEALTH COACHING	
HED 44025	WOMEN'S HEALTH ISSUES	
HED 44544	SEXUALITY EDUCATION PROGRAMS	
HED 44550	DRUG ABUSE AND VIOLENCE EDUCATION PROGRAMS	
HED 46052	STRESS: RECOGNITION AND MANAGEMENT	
HED 46057	ADVANCED HUMAN SEXUALITY	
HED 47070	AIDS: ISSUES, EDUCATION AND PREVENTION	
HED 48092	FIELD EXPERIENCE IN HEALTH EDUCATION AND PROMOTION (ELR)	
Kent Core Composition		6
Kent Core Mathematics and Critical Reasoning		3
Kent Core Humanities and Fine Arts (minimum one course from each)		6
Kent Core Social Sciences (must be from two disciplines)		3
Kent Core Basic Sciences Laboratory		1
Kent Core Additional		3
General Electives (total credit hours depends on earning 120 credit hours, including 39 upper-division credit hours)		12
Minimum Total Credit Hours:		120

## Graduation Requirements

Minimum Major GPA	Minimum Overall GPA
2.750	2.750

## Roadmap

This roadmap is a recommended semester-by-semester plan of study for this major. However, courses designated as critical (!) must be completed in the semester listed to ensure a timely graduation.

Semester One		Credits
COMM 15000	INTRODUCTION TO HUMAN COMMUNICATION (KADL)	3
! HED 11590	COMMUNITY HEALTH EDUCATION	3
UC 10097	DESTINATION KENT STATE: FIRST YEAR EXPERIENCE	1
Health Education (HED) Elective		3
Kent Core Requirement		3
Kent Core Requirement		3
Credit Hours		16
Semester Two		Credits
! HED 11570	PERSONAL HEALTH	3
PHIL 11001	INTRODUCTION TO PHILOSOPHY (DIVG) (KHUM)	3
or PHIL 21001	or INTRODUCTION TO ETHICS (DIVG) (KHUM)	
PWS 10035	LIFETIME FITNESS	2
Kent Core Requirement		3

Kent Core Requirement		3
Kent Core Requirement		3
Credit Hours		17
Semester Three		Credits
BSCI 10001	HUMAN BIOLOGY (KBS)	3
! HED 21030	INTRODUCTION TO HEALTH EDUCATION	3
HED 21050	HEALTH EDUCATION THEORIES	3
Kent Core Requirement		3
Kent Core Requirement		3
Credit Hours		15
Semester Four		Credits
! HED 32544	HUMAN SEXUALITY	3
SOC 32220	DATA ANALYSIS	3-4
& SOC 32221	and DATA ANALYSIS LABORATORY	
or PH 30002	or INTRODUCTORY BIostatISTICS	
or PSYC 21621	or QUANTITATIVE METHODS IN PSYCHOLOGY	
General Electives		9
Credit Hours		15
Semester Five		Credits
ETEC 39525	EDUCATIONAL TECHNOLOGY	3
! HED 32542	METHODS AND APPLICATIONS OF HEALTH EDUCATION (WIC)	5
NUTR 23511	SCIENCE OF HUMAN NUTRITION (KBS)	3
Health Education (HED) Electives		3
Credit Hours		14
Semester Six		Credits
HED 32565	MARKETING IN HEALTH EDUCATION	3
HED 34050	PROGRAM PLANNING AND EVALUATION IN HEALTH EDUCATION	3
JMC 20001	MEDIA, POWER AND CULTURE (DIVD) (KSS)	3
PH 30006	INTRODUCTION TO ENVIRONMENTAL HEALTH AND SAFETY	3
Kent Core Requirement		1
General Elective		3
Credit Hours		16
Semester Seven		Credits
ETEC 47427	TECHNOLOGY AND LEARNING	3
or ETEC 47400	or TRENDS IN EDUCATIONAL TECHNOLOGY	
JMC 20005	FUNDAMENTALS OF MEDIA MESSAGES	3
Health Education (HED) Electives		9
Credit Hours		15
Semester Eight		Credits
HED 44092	INTERNSHIP IN COMMUNITY HEALTH EDUCATION (ELR)	9
Health Education (HED) Elective		3
Credit Hours		12
Minimum Total Credit Hours:		120

## Community Health Education - Minor

College of Education Health and Human Services  
 School of Health Sciences  
 100 Nixson Hall  
 Kent Campus  
 330-672-2197  
[www.kent.edu/ehhs/hs](http://www.kent.edu/ehhs/hs)

## Description

The Community Health Education minor is for students seeking to have increased understanding of health issues in the community setting. This minor complements students with a major or an interest in the social sciences, or who plan to work in community settings, such as non-profit or voluntary agencies.

### Fully Offered At:

- Kent Campus

## Admission Requirements

Admission to a minor is open to students declared in a bachelor's degree, the A.A.B. or A.A.S. degree or the A.T.S. degree (not Individualized Program major). Students declared only in the A.A. or A.S. degree or the A.T.S. degree in Individualized Program may not declare a minor. Students may not pursue a minor and a major in the same discipline.

Students declared in the School Health Education major may not declare the Community Health Education minor.

To declare this minor, students must have attempted a minimum 12 credit hours at Kent State and earned a minimum 2.000 overall Kent State GPA. Students who have not attempted 12 credit hours at Kent State will be evaluated for admission based on their high school GPA for new students or transfer GPA for transfer students. Transfer students who have not attempted 12 credit hours of college-level coursework at Kent State and/or other institutions will be evaluated based on both their high school GPA and college GPA.

## Minor Requirements

Code	Title	Credit Hours
<b>Minor Requirements</b>		
HED 11570	PERSONAL HEALTH	3
HED 11590	COMMUNITY HEALTH EDUCATION	3
HED 21030	INTRODUCTION TO HEALTH EDUCATION	3
HED 21050	HEALTH EDUCATION THEORIES	3
HED 32530	DRUG USE AND MISUSE	3
or HED 32544	HUMAN SEXUALITY	
HED 32542	METHODS AND APPLICATIONS OF HEALTH EDUCATION (WIC)	5
HED 34050	PROGRAM PLANNING AND EVALUATION IN HEALTH EDUCATION	3
HED 42041	HEALTH COACHING	3
Minimum Total Credit Hours:		26

## Graduation Requirements

Minimum Minor GPA	Minimum Overall GPA
2.500	2.000

- Minimum 6 credit hours in the minor must be upper-division coursework (30000 and 40000 level).
- Minimum 6 credit hours in the minor must be outside of the course requirements for any major or other minor the student is pursuing.

- Minimum 50 percent of the total credit hours for the minor must be taken at Kent State (in residence).

## Exercise Physiology - M.S.

### College of Education Health and Human Services

School of Health Sciences

100 Nixon Hall

Kent Campus

330-672-2197

www.kent.edu/ehhs/hs

## Description

The Master of Science degree in Exercise Physiology prepares graduates for a wide variety of career options, including exercise prescription and research, as well as future doctoral study. Representative faculty research includes the areas of body composition, metabolism/nutritional requirements, environment, clinical exercise physiology and the physiology of aging as it is influenced by physical activity and fitness.

Athletic training faculty also support the degree path with their areas of expertise in clinical and educational research in the field of athletic training. The Exercise Physiology major includes the following optional concentration: The Athletic Training concentration is designed to serve the needs of post-certification (or certification-pending) students who wish to further their knowledge and skills in the athletic training profession while pursuing a master's degree. Students have the opportunity to pursue advanced clinical and academic training while obtaining knowledge and skills relative to effective clinical instruction and supervision. Advanced research skills are also a critical component to this advanced track program. Opportunities to perform research independently and/or in conjunction with program faculty are widely available.

### Fully Offered At:

- Kent Campus

## Accreditation

Commission on Accreditation of Allied Health Education Programs

## Admission Requirements

- Bachelor's degree in exercise science, or equivalent preparation, from an accredited college or university for unconditional admission
- Minimum 3.000 undergraduate GPA on a 4.000 point scale for unconditional admission
- Official transcript(s)
- Goal statement
- Two letters of recommendation
- English language proficiency - all international students must provide proof of English language proficiency (unless they meet specific exceptions) by earning one of the following:
  - Minimum 550 TOEFL PBT score (paper-based version)
  - Minimum 79 TOEFL IBT score (Internet-based version)
  - Minimum 77 MELAB score
  - Minimum 6.5 IELTS score

- Minimum 58 PTE score
- Minimum 110 Duolingo English Test score

Degree applicants are expected to have substantial preparation in the sciences, usually including coursework in biology, chemistry, physics, mathematics, anatomy, kinesiology and exercise physiology. For more information about graduate admissions, please visit the Graduate Studies admission website. For more information on international admission, visit the Office of Global Education's admission website.

## Program Learning Outcomes

Graduates of this program will be able to:

1. Pass one of the American College of Sports Medicine's (ACSM) or NSCA exams: Certified Exercise Physiologist (C-EP) or Certified Strength and Conditioning Specialist (CSCS).
2. Demonstrate understanding of the physiology of human movement across the lifespan.
3. Demonstrate detailed knowledge of the anatomy and physiology of the human and health and disease.
4. Demonstrate knowledge of the pathophysiology of disease, risk factors and special exercise populations, according to the American College of Sports Medicine.

### Graduates of the Athletic Training concentration will be able to:

1. Apply the principles of the research process in athletic training by engaging with faculty and clinical staff in graduate research initiatives.
2. Engage health care professionals and apply the knowledge gained, through their education in both the classroom and clinical settings.
3. Engage in program improvement as part of a continuous quality improvement initiative by evaluating the effectiveness of the program through multiple evaluation resources.

## Program Requirements

### Major Requirements

Code	Title	Credit Hours
<b>Major Requirements</b>		
ATTR 53018	ETHICAL LEADERSHIP FOR HEALTH CARE	3
EXPH 63050	RESEARCH PROCESS IN ATHLETIC TRAINING AND EXERCISE PHYSIOLOGY	3
EXPH 63091	RESEARCH SEMINAR	1
<b>Additional Requirements or Concentration</b>		
Choose from the following:		27
Additional Requirements for Students Not Declaring a Concentration Athletic Training Concentration		
Minimum Total Credit Hours:		34

### Additional Requirements for Students Not Declaring a Concentration

Code	Title	Credit Hours
<b>Major Requirements</b>		
EXPH 63051	QUANTITATIVE AND RESEARCH METHODS IN ATHLETIC TRAINING AND EXERCISE PHYSIOLOGY	3

EXPH 65081	ENERGY METABOLISM AND BODY COMPOSITION	3
or EXPH 65083	EXERCISE ENERGY METABOLISM	
EXPH 65082	CARDIO-RESPIRATORY FUNCTION	3
or EXPH 65084	CARDIOVASCULAR-RESPIRATORY DYNAMICS DURING EXERCISE	
Thesis or Non-Thesis Option, choose from the following:		6
EXPH 63199	THESIS I	
EXPH 63098	RESEARCH	
& EXPH 65192	and INTERNSHIP IN EXERCISE PHYSIOLOGY	
EXPH 65192	INTERNSHIP IN EXERCISE PHYSIOLOGY	
Suggested Electives, choose from the following:		12
BMS 68610	HUMAN GROSS ANATOMY I	
BMS 68611	HUMAN GROSS ANATOMY II	
BSCI 50020	BIOLOGY OF AGING	
BSCI 50431	NEUROENDOCRINOLOGY	
EXPH 50612	EXERCISE LEADERSHIP FOR THE OLDER ADULT	
EXPH 55065	EXERCISE TESTING	
EXPH 55070	ELECTROCARDIOGRAPHY FOR THE EXERCISE PHYSIOLOGIST	
EXPH 55080	PHYSIOLOGY OF EXERCISE	
EXPH 60610	PHYSIOLOGY OF AGING: IMPLICATIONS FOR HUMAN BEHAVIOR	
EXPH 63098	RESEARCH	
EXPH 65080	PHYSIOLOGICAL BASIS OF EXERCISE AND SPORT	
EXPH 65086	NEUROBIOLOGY OF MOVEMENT AND EXERCISE	
NUTR 53520	SPORTS NUTRITION	
Additional Electives Chosen in Consultation with Advisor		
Minimum Total Credit Hours:		27

## Athletic Training Concentration Requirements

Code	Title	Credit Hours
<b>Concentration Requirements</b>		
ATTR 62010	CONTEMPORARY ISSUES IN ATHLETIC TRAINING	3
ATTR 62012	EDUCATION AND SUPERVISION PROCESSES IN ATHLETIC TRAINING	3
ATTR 62014	ADVANCED CLINICAL PROCEDURES IN ATHLETIC TRAINING AND SPORTS MEDICINE	3
ATTR 62016	CLINICAL INQUIRY IN ATHLETIC TRAINING	3
Thesis or Non-Thesis Option, choose from the following: <sup>1</sup>		3-6
ATTR 63199	THESIS I	
ATTR 63098	RESEARCH	
Suggested Electives, choose from the following: <sup>1</sup>		9-12
BMS 60450	MEDICAL PHYSIOLOGY II	
BMS 68610	HUMAN GROSS ANATOMY I	
BMS 68611	HUMAN GROSS ANATOMY II	
BSCI 50020	BIOLOGY OF AGING	
BSCI 50142	BIOENERGETICS	
BSCI 50431	NEUROENDOCRINOLOGY	
BSCI 50432	ENDOCRINOLOGY	
BSCI 50433	MAMMALIAN PHYSIOLOGY I	
BSCI 50434	MAMMALIAN PHYSIOLOGY II	
CHEM 50261	PRINCIPLES OF BIOCHEMISTRY I	



EXPH 50612	EXERCISE LEADERSHIP FOR THE OLDER ADULT
EXPH 55065	EXERCISE TESTING
EXPH 55070	ELECTROCARDIOGRAPHY FOR THE EXERCISE PHYSIOLOGIST
EXPH 55080	PHYSIOLOGY OF EXERCISE
EXPH 60610	PHYSIOLOGY OF AGING: IMPLICATIONS FOR HUMAN BEHAVIOR
EXPH 63051	QUANTITATIVE AND RESEARCH METHODS IN ATHLETIC TRAINING AND EXERCISE PHYSIOLOGY
EXPH 63098	RESEARCH
EXPH 65075	MUSCLE FUNCTION AND EXERCISE
EXPH 65076	ENVIRONMENTAL STRESS AND EXERCISE
EXPH 65080	PHYSIOLOGICAL BASIS OF EXERCISE AND SPORT
EXPH 65081	ENERGY METABOLISM AND BODY COMPOSITION
EXPH 65082	CARDIO-RESPIRATORY FUNCTION
EXPH 65083	EXERCISE ENERGY METABOLISM
EXPH 65084	CARDIOVASCULAR-RESPIRATORY DYNAMICS DURING EXERCISE
EXPH 65086	NEUROBIOLOGY OF MOVEMENT AND EXERCISE
NUTR 53513	MICRONUTRIENT NUTRITIONAL BIOCHEMISTRY
NUTR 53520	SPORTS NUTRITION
Additional Electives Chosen in Consultation with Advisor	

Minimum Total Credit Hours: 27

<sup>1</sup> Students who select the non-thesis option must take additional coursework to meet the minimum credit hours required for the degree.

## Graduation Requirements

Only in rare instances does a student fulfill the educational and research expectations within the minimum credit-hour requirement for this degree. Any deficiencies for a doctoral academic preparation must be corrected very early in the approved academic program.

## Exercise Physiology - Ph.D.

### College of Education Health and Human Services

School of Health Sciences  
100 Nixson Hall  
Kent Campus  
330-672-2197  
oss@kent.edu  
www.kent.edu/ehhs/hs

## Description

The Ph.D. degree in Exercise Physiology prepares students for a wide variety of career options, including exercise prescription and research. The program develops the competencies needed for those who intend to teach exercise physiology, pursue research or apply exercise physiology in practice.

## Fully Offered At:

- Kent Campus

## Accreditation

Commission on Accreditation of Allied Health Education Programs

## Admission Requirements

- Master's degree from an accredited college or university for unconditional admission
- Previous degree in exercise science or equivalent preparation for unconditional admission
- Minimum 3.000 graduate GPA on a 4.000 point scale (minimum 3.500 GPA is recommended) for unconditional admission
- Official transcript(s)
- GRE or MCAT score of the 50th percentile
- Goal statement
- Two letters of recommendation
- Interview
- English language proficiency - all international students must provide proof of English language proficiency (unless they meet specific exceptions) by earning one of the following:
  - Minimum 550 TOEFL PBT score (paper-based version)
  - Minimum 79 TOEFL IBT score (Internet-based version)
  - Minimum 77 MELAB score
  - Minimum 6.5 IELTS score
  - Minimum 58 PTE score
  - Minimum 110 Duolingo English Test score

For more information about graduate admissions, please visit the Graduate Studies admission website. For more information on international admission, visit the Office of Global Education's admission website.

## Program Learning Outcomes

Graduates of this program will be able to:

1. Present their research data regionally and nationally at conferences.
2. Publish their research data in peer reviewed publications.
3. Teach classes associated with exercise physiology.
4. Work in the field and implement community-based exercise programing.

## Program Requirements

### Major Requirements

Code	Title	Credit Hours
<b>Major Requirements</b>		
EXPH 73050	RESEARCH PROCESSES IN ATHLETIC TRAINING AND EXERCISE PHYSIOLOGY	3
EXPH 73051	QUANTITATIVE AND RESEARCH METHODS IN ATHLETIC TRAINING AND EXERCISE PHYSIOLOGY	3
EXPH 73091	RESEARCH SEMINAR <sup>1</sup>	2
EXPH 83098	RESEARCH	12

EXPH 83199	DISSERTATION I <sup>2</sup>	30
Exercise Physiology Electives, choose from the following:		9
EXPH 75075	MUSCLE FUNCTION AND EXERCISE	
EXPH 75076	ENVIRONMENTAL STRESS AND EXERCISE	
EXPH 75081	ENERGY METABOLISM AND BODY COMPOSITION	
or EXPH 75083	EXERCISE ENERGY METABOLISM	
EXPH 75082	CARDIO-RESPIRATORY FUNCTION	
or EXPH 75084	CARDIOVASCULAR-RESPIRATORY DYNAMICS DURING EXERCISE	
Physiology Electives, choose from the following:		6
EXPH 70610	PHYSIOLOGY OF AGING:IMPLICATIONS FOR HUMAN BEHAVIOR	
EXPH 75080	PHYSIOLOGICAL BASIS OF EXERCISE AND SPORT	
EXPH 75086	NEUROBIOLOGY OF EXERCISE AND MOVEMENT	
Additional electives as approved by faculty advisor		
Minimum Total Credit Hours:		65

<sup>1</sup> Students must enroll in EXPH 73091 for two semesters.

<sup>2</sup> Upon admission to candidacy, each doctoral candidate must register for EXPH 83199. It is expected that a doctoral candidate will continuously register for Dissertation I for a total of 30 credit hours, and thereafter EXPH 83299, each semester until all requirements for the degree have been met. The dissertation must show that the student has the competency to conduct research in a discriminating and original manner. The quality of the dissertation must be such that one or more articles acceptable for publication in a professional journal may be expected to be derived from it.

## Candidacy Examination

Students will be required to pass an oral and written candidacy examination after coursework is completed before beginning their dissertation. Prior to taking the candidacy examination, the student must demonstrate his or her ability to conduct independent research related to the field of exercise physiology. This may be in the form of a completed thesis, an independent study project or an article published in an acceptable research journal. The acceptability of such evidence is to be determined by faculty advising students in exercise physiology.

## Graduation Requirements

Only in rare instances does a student fulfill the educational and research expectations within the minimum-credit-hour requirement for this degree. Any deficiencies in a doctoral student's academic preparation must be corrected very early in the approved academic program.

## Exercise Science - B.S.

### College of Education Health and Human Services

School of Health Sciences  
100 Nixon Hall  
Kent Campus  
330-672-2197  
[www.kent.edu/ehhs/hs](http://www.kent.edu/ehhs/hs)

## Description

The Bachelor of Science degree in Exercise Science comprises three concentrations:

- The **Exercise Physiology** concentration prepares students for graduate school in exercise physiology or health care professions.
- The **Exercise Specialist** concentration enables students to prepare for work in the clinical setting, ranging from a career in wellness to cardiac rehabilitation.
- The **Pre-Physical/Occupational Therapy/Podiatric Medicine** concentration prepares students for subsequent graduate school in these areas. The pre-podiatric medicine track is designed to be a combined program with Kent State University's College of Podiatric Medicine. Successful completion of this program, however does not guarantee acceptance into the Doctor of Podiatric Medicine degree. Please see the Podiatric Medicine doctoral program in the catalog for more information about the application process and acceptance criteria.

## Fully Offered At:

- Kent Campus

## Accreditation

Commission on Accreditation of Allied Health Education Programs, Committee on Accreditation for the Exercise Sciences

## Admission Requirements

The university affirmatively strives to provide educational opportunities and access to students with varied backgrounds, those with special talents and adult students who graduated from high school three or more years ago.

**Freshman Students on the Kent Campus:** The freshman admission policy on the Kent Campus is selective. Admission decisions are based upon the following: cumulative grade point average, ACT and/or SAT scores, strength of high school college preparatory curriculum and grade trends. The Admissions Office at the Kent Campus may defer the admission of students who do not meet admissions criteria but who demonstrate areas of promise for successful college study. Deferred applicants may begin their college coursework at one of seven regional campuses of Kent State University. For more information on admissions, including additional requirements for some academic programs, visit the admissions website for new freshmen.

**Freshman Students on the Regional Campuses:** Kent State campuses at Ashtabula, East Liverpool, Geauga, Salem, Stark, Trumbull and Tuscarawas, as well as the Regional Academic Center in Twinsburg, have open enrollment admission for students who hold a high school diploma, GED or equivalent.

### English Language Proficiency Requirements for International Students:

All international students must provide proof of English language proficiency (unless they meet specific exceptions) by earning a minimum 525 TOEFL score (71 on the Internet-based version), minimum 75 MELAB score, minimum 6.0 IELTS score or minimum 48 PTE score, or by completing the ESL level 112 Intensive Program. For more information on international admission, visit the Office of Global Education's admission website.

**Transfer, Transitioning and Former Students:** For more information about admission criteria for transfer, transitioning and former students, please visit the admissions website.

**Current Kent State and Transfer Students:** Active Kent State students who wish to change their major must have attempted a minimum 12 credit hours at Kent State and earned a minimum 2.000 overall Kent State GPA to be admitted. Students who have not attempted 12 credit hours at Kent State will be evaluated for admission based on their high school GPA for new students or transfer GPA for transfer students. Transfer students who have not attempted 12 credit hours of college-level coursework at Kent State and/or other institutions will be evaluated based on both their high school GPA and college GPA.

## University Requirements

All students in a bachelor's degree program at Kent State University must complete the following university requirements for graduation.

**NOTE:** University requirements may be fulfilled in this program by specific course requirements. Please see Program Requirements for details.

Destination Kent State: First Year Experience	1
Course is not required for students with 25 transfer credits, excluding College Credit Plus, or age 21+ at time of admission.	
Diversity Domestic/Global (DIVD/DIVG)	2 courses
Students must successfully complete one domestic and one global course, of which one must be from the Kent Core.	
Experiential Learning Requirement (ELR)	varies
Students must successfully complete one course or approved experience.	
Kent Core (see table below)	36-37
Writing-Intensive Course (WIC)	1 course
Students must earn a minimum C grade in the course.	
Upper-Division Requirement	39 (or 42)
Students must successfully complete 39 upper-division (numbered 30000 to 49999) credit hours to graduate. Students in a B.A. and/or B.S. degree in the College of Arts and Sciences must complete 42 upper-division credit hours.	
Total Credit Hour Requirement	120
Some bachelor's degrees require students to complete more than 120 credit hours.	

## Kent Core Requirements

Kent Core Composition (KCOMP)	6
Kent Core Mathematics and Critical Reasoning (KMCR)	3
Kent Core Humanities and Fine Arts (KHUM/KFA) (min one course each)	9
Kent Core Social Sciences (KSS) (must be from two disciplines)	6
Kent Core Basic Sciences (KBS/KLAB) (must include one laboratory)	6-7
Kent Core Additional (KADL)	6
<b>Total Credit Hours:</b>	<b>36-37</b>

## Program Requirements

### Major Requirements

Code	Title	Credit Hours
<b>Major Requirements (courses count in major GPA)</b>		
ATTR/EXSC 25057	HUMAN ANATOMY AND PHYSIOLOGY I (KBS) (KLAB) <sup>1</sup>	4
ATTR/EXSC 25058	HUMAN ANATOMY AND PHYSIOLOGY II (KBS) (KLAB) <sup>1</sup>	4
ATTR 35040 or EXSC 45040	STRENGTH AND CONDITIONING ADVANCED STRENGTH AND CONDITIONING	2
ATTR/EXSC 35054	BIOMECHANICS	3
EXSC 15010	INTRODUCTION TO EXERCISE SCIENCE	2
EXSC 35022	EXERCISE LEADERSHIP	3
EXSC 35023	PROFESSIONAL CERTIFICATE PREPARATION	2
EXSC 35068	STATISTICS FOR THE EXERCISE SCIENTIST <sup>2</sup>	3
EXSC 45080	PHYSIOLOGY OF EXERCISE (WIC) <sup>3</sup>	3
EXSC 45481	SEMINAR IN EXERCISE PHYSIOLOGY	1
NURS 20950 or PESP 25033	HUMAN GROWTH AND DEVELOPMENT FOR HEALTH PROFESSIONALS LIFESPAN MOTOR DEVELOPMENT	3
<b>Additional Requirements (courses do not count in major GPA)</b>		
CHEM 10060	GENERAL CHEMISTRY I (KBS)	4
CHEM 10061	GENERAL CHEMISTRY II (KBS)	4
CHEM 10062	GENERAL CHEMISTRY I LABORATORY (KBS) (KLAB)	1
CHEM 10063	GENERAL CHEMISTRY II LABORATORY (KBS) (KLAB)	1
PSYC 11762	GENERAL PSYCHOLOGY (DIVD) (KSS)	3
GERO 14029	INTRODUCTION TO GERONTOLOGY (DIVD) (KSS)	3
NUTR 23511	SCIENCE OF HUMAN NUTRITION (KBS)	3
UC 10097	DESTINATION KENT STATE: FIRST YEAR EXPERIENCE	1
Kent Core Composition		6
Kent Core Humanities and Fine Arts (minimum one course from each)		9
General Electives (total credit hours depends on earning 120 credit hours, including 39 upper-division credit hours) <sup>4</sup>		12
<b>Concentrations</b>		
Choose from the following:		43
Exercise Physiology		
Exercise Specialist		
Pre-Physical/Occupational Therapy/Podiatric Medicine		
Minimum Total Credit Hours:		120

- Students who have successfully completed BSCI 11010/BSCI 11020 or BSCI 21010/BSCI 21020 may use those courses in place of ATTR 25057/ATTR 25058 and EXSC 25057/EXSC 25058.
- Students who have successfully completed MATH 12022 or PSYC 21621 may use those courses in place of EXSC 35068.
- A minimum C grade must be earned to fulfill writing-intensive requirement.
- Students are strongly encouraged to meet with faculty advisor when selecting electives. Maximum 12 credit hours from the Doctor of Podiatric Medicine degree can be used to fulfill general electives for students admitted to the combined bachelor's/doctoral degree program.

## Exercise Physiology Concentration Requirements

Code	Title	Credit Hours
<b>Concentration Requirements (courses count in major GPA)</b>		
ATTR 25036	RESPONDING TO EMERGENCIES	3
CHEM 20481	BASIC ORGANIC CHEMISTRY I	4
or CHEM 30481	ORGANIC CHEMISTRY I	
EXSC 45096	INDIVIDUAL INVESTIGATION IN EXERCISE SCIENCE (ELR)	3
NUTR 33512	INTERMEDIATE NUTRITION SCIENCE	3
<b>Additional Requirements (courses do not count in major GPA)</b>		
MATH 11009	MODELING ALGEBRA (KMCR)	3-4
or MATH 11010	ALGEBRA FOR CALCULUS (KMCR)	
General Electives		27
Minimum Total Credit Hours:		43

## Exercise Specialist Concentration Requirements

Code	Title	Credit Hours
<b>Concentration Requirements (courses count in major GPA)</b>		
ATTR 25036	RESPONDING TO EMERGENCIES	3
ATTR 45040	PATHOLOGY AND PHARMACOLOGY FOR ALLIED HEALTH CARE PROVIDERS	3
or EXSC 41000	EXERCISE IMPLEMENTATION: AN EXERCISE INTERVENTION PROGRAM	
EXSC 35075	EXERCISE PROGRAMMING	3
EXSC 40612	EXERCISE LEADERSHIP FOR THE OLDER ADULT	3
EXSC 45065	EXERCISE TESTING	3
EXSC 45070	ELECTROCARDIOGRAPHY FOR THE EXERCISE PHYSIOLOGIST	3
EXSC 45492	INTERNSHIP IN PHYSICAL FITNESS AND CARDIAC REHABILITATION (ELR)	3
<b>Additional Requirements (courses do not count in major GPA)</b>		
MATH 11009	MODELING ALGEBRA (KMCR)	3-4
or MATH 11010	ALGEBRA FOR CALCULUS (KMCR)	
General Electives		19
Minimum Total Credit Hours:		43

## Pre-Physical/Occupational Therapy/Podiatric Medicine Concentration Requirements

Code	Title	Credit Hours
<b>Concentration Requirements (courses count in major GPA)</b>		
BSCI 10110	BIOLOGICAL DIVERSITY (KBS) (KLAB)	4
BSCI 10120	BIOLOGICAL FOUNDATIONS (KBS) (KLAB)	4
EXSC 45096	INDIVIDUAL INVESTIGATION IN EXERCISE SCIENCE (ELR)	3
EXSC 45492	INTERNSHIP IN PHYSICAL FITNESS AND CARDIAC REHABILITATION (ELR) <sup>1</sup>	3
HED 14020	MEDICAL TERMINOLOGY	3
NUTR 33512	INTERMEDIATE NUTRITION SCIENCE	3
PHY 13001	GENERAL COLLEGE PHYSICS I (KBS)	4
PHY 13002	GENERAL COLLEGE PHYSICS II (KBS)	4
PHY 13021	GENERAL COLLEGE PHYSICS LABORATORY I (KBS) (KLAB)	1
PHY 13022	GENERAL COLLEGE PHYSICS LABORATORY II (KBS) (KLAB)	1

PSYC 40111	ABNORMAL PSYCHOLOGY	3
Chemistry Elective, choose from the following (depending on career goals):		4-8
CHEM 20481	BASIC ORGANIC CHEMISTRY I	
CHEM 30481	ORGANIC CHEMISTRY I	
& CHEM 30482	and ORGANIC CHEMISTRY II	
& CHEM 30475	and ORGANIC CHEMISTRY LABORATORY I (ELR)	
& CHEM 30476	and ORGANIC CHEMISTRY LABORATORY II <sup>2</sup>	
<b>Additional Requirements (courses do not count in major GPA)</b>		
MATH 11010	ALGEBRA FOR CALCULUS (KMCR)	3
MATH 11022	TRIGONOMETRY (KMCR)	3
Minimum Total Credit Hours:		43

- <sup>1</sup> State or Federal background checks may be required for practicum/ internship experiences.
- <sup>2</sup> Recommended for those students planning to apply to the Doctor of Podiatric Medicine degree.

## Graduation Requirements

Minimum Major GPA	Minimum Overall GPA
2.250	2.000

- Upon completion of the degree, students are highly encouraged, especially those who do not have a 3.000 GPA, to take the American College of Sports Medicine (ACSM) Certified Exercise Physiologist exam and/or the Certified Personal Trainer exam to enhance employment opportunities. Admission into physical therapy or occupational therapy graduate programs is competitive by GPA.

## Roadmaps

- Exercise Physiology Concentration
- Exercise Specialist Concentration
- Pre-Physical/Occupational Therapy/Podiatric Medicine Concentration

## Exercise Physiology Concentration

This roadmap is a recommended semester-by-semester plan of study for this major. However, courses designated as critical (!) must be completed in the semester listed to ensure a timely graduation.

Course	Title	Credits
<b>Semester One</b>		
EXSC 15010	INTRODUCTION TO EXERCISE SCIENCE	2
MATH 11009 or MATH 11010	MODELING ALGEBRA (KMCR) or ALGEBRA FOR CALCULUS (KMCR)	3-4
UC 10097	DESTINATION KENT STATE: FIRST YEAR EXPERIENCE	1
Kent Core Requirement		3
Kent Core Requirement		3
Kent Core Requirement		3
Credit Hours		15
<b>Semester Two</b>		
CHEM 10060	GENERAL CHEMISTRY I (KBS)	4
CHEM 10062	GENERAL CHEMISTRY I LABORATORY (KBS) (KLAB)	1
PSYC 11762	GENERAL PSYCHOLOGY (DIVD) (KSS)	3
Kent Core Requirement		3
General Elective		3
Credit Hours		14
<b>Semester Three</b>		
ATTR 25057 or EXSC 25057	HUMAN ANATOMY AND PHYSIOLOGY I (KBS) (KLAB) or HUMAN ANATOMY AND PHYSIOLOGY I (KBS) (KLAB)	4
EXSC 45481	SEMINAR IN EXERCISE PHYSIOLOGY	1
CHEM 10061	GENERAL CHEMISTRY II (KBS)	4
CHEM 10063	GENERAL CHEMISTRY II LABORATORY (KBS) (KLAB)	1
NUTR 23511	SCIENCE OF HUMAN NUTRITION (KBS)	3
NURS 20950 or PESP 25033	HUMAN GROWTH AND DEVELOPMENT FOR HEALTH PROFESSIONALS or LIFESPAN MOTOR DEVELOPMENT	3
Credit Hours		16
<b>Semester Four</b>		
ATTR 25058 or EXSC 25058	HUMAN ANATOMY AND PHYSIOLOGY II (KBS) (KLAB) or HUMAN ANATOMY AND PHYSIOLOGY II (KBS) (KLAB)	4
EXSC 35068	STATISTICS FOR THE EXERCISE SCIENTIST	3
GERO 14029	INTRODUCTION TO GERONTOLOGY (DIVD) (KSS)	3
Kent Core Requirement		3
General Elective		2
Credit Hours		15
<b>Semester Five</b>		
ATTR 25036	RESPONDING TO EMERGENCIES	3
ATTR 35040 or EXSC 45040	STRENGTH AND CONDITIONING or ADVANCED STRENGTH AND CONDITIONING	2
ATTR 35054 or EXSC 35054	BIOMECHANICS or BIOMECHANICS	3
CHEM 20481 or CHEM 30481	BASIC ORGANIC CHEMISTRY I or ORGANIC CHEMISTRY I	4

General Elective	3	
Credit Hours	15	
<b>Semester Six</b>		
EXSC 35022	EXERCISE LEADERSHIP	3
General Elective	13	
Credit Hours	16	
<b>Semester Seven</b>		
EXSC 35023	PROFESSIONAL CERTIFICATE PREPARATION	2
NUTR 33512	INTERMEDIATE NUTRITION SCIENCE	3
General Elective	9	
Credit Hours	14	
<b>Semester Eight</b>		
EXSC 45080	PHYSIOLOGY OF EXERCISE (WIC)	3
EXSC 45096	INDIVIDUAL INVESTIGATION IN EXERCISE SCIENCE (ELR)	3
General Electives	9	
Credit Hours	15	
Minimum Total Credit Hours:	120	

## Exercise Specialist Concentration

This roadmap is a recommended semester-by-semester plan of study for this major. However, courses designated as critical (!) must be completed in the semester listed to ensure a timely graduation.

Course	Title	Credits
<b>Semester One</b>		
EXSC 15010	INTRODUCTION TO EXERCISE SCIENCE	2
MATH 11009 or MATH 11010	MODELING ALGEBRA (KMCR) or ALGEBRA FOR CALCULUS (KMCR)	3-4
UC 10097	DESTINATION KENT STATE: FIRST YEAR EXPERIENCE	1
Kent Core Requirement		3
Kent Core Requirement		3
Kent Core Requirement		3
Credit Hours		15
<b>Semester Two</b>		
CHEM 10060	GENERAL CHEMISTRY I (KBS)	4
CHEM 10062	GENERAL CHEMISTRY I LABORATORY (KBS) (KLAB)	1
PSYC 11762	GENERAL PSYCHOLOGY (DIVD) (KSS)	3
Kent Core Requirement		3
Kent Core Requirement		3
Credit Hours		14
<b>Semester Three</b>		
CHEM 10061	GENERAL CHEMISTRY II (KBS)	4
CHEM 10063	GENERAL CHEMISTRY II LABORATORY (KBS) (KLAB)	1
ATTR 25057 or EXSC 25057	HUMAN ANATOMY AND PHYSIOLOGY I (KBS) (KLAB) or HUMAN ANATOMY AND PHYSIOLOGY I (KBS) (KLAB)	4
NURS 20950 or PESP 25033	HUMAN GROWTH AND DEVELOPMENT FOR HEALTH PROFESSIONALS or LIFESPAN MOTOR DEVELOPMENT	3
General Electives	3	
Credit Hours	15	



**Semester Four**

ATTR 25058	HUMAN ANATOMY AND PHYSIOLOGY II (KBS) or (KLAB)	4
EXSC 25058	or HUMAN ANATOMY AND PHYSIOLOGY II (KBS) (KLAB)	
EXSC 35068	STATISTICS FOR THE EXERCISE SCIENTIST	3
GERO 14029	INTRODUCTION TO GERONTOLOGY (DIVD) (KSS)	3
NUTR 23511	SCIENCE OF HUMAN NUTRITION (KBS)	3
General Electives		4
Credit Hours		17

**Semester Five**

ATTR 25036	RESPONDING TO EMERGENCIES	3
ATTR 35040	STRENGTH AND CONDITIONING	2
EXSC 45040	or ADVANCED STRENGTH AND CONDITIONING	
ATTR 35054	BIOMECHANICS	3
EXSC 35054	or BIOMECHANICS	
General Electives		6
Credit Hours		14

**Semester Six**

EXSC 35022	EXERCISE LEADERSHIP	3
EXSC 35075	EXERCISE PROGRAMMING	3
EXSC 40612	EXERCISE LEADERSHIP FOR THE OLDER ADULT	3
EXSC 45070	ELECTROCARDIOGRAPHY FOR THE EXERCISE PHYSIOLOGIST	3
EXSC 45481	SEMINAR IN EXERCISE PHYSIOLOGY	1
General Elective		3
Credit Hours		16

**Semester Seven**

ATTR 45040	PATHOLOGY AND PHARMACOLOGY FOR ALLIED HEALTH CARE PROVIDERS	3
EXSC 41000	or EXERCISE IMPLEMENTATION: AN EXERCISE INTERVENTION PROGRAM	
EXSC 35023	PROFESSIONAL CERTIFICATE PREPARATION	2
EXSC 45065	EXERCISE TESTING	3
General Elective		6
Credit Hours		14

**Semester Eight**

EXSC 45080	PHYSIOLOGY OF EXERCISE (WIC)	3
EXSC 45492	INTERNSHIP IN PHYSICAL FITNESS AND CARDIAC REHABILITATION (ELR)	3
General Elective		9
Credit Hours		15
Minimum Total Credit Hours:		120

**Pre-Physical/Occupational Therapy/Podiatric Medicine Concentration**

This roadmap is a recommended semester-by-semester plan of study for this major. However, courses designated as critical (!) must be completed in the semester listed to ensure a timely graduation.

Course	Title	Credits
<b>Semester One</b>		
BSCI 10120	BIOLOGICAL FOUNDATIONS (KBS) (KLAB)	4
CHEM 10060	GENERAL CHEMISTRY I (KBS)	4
CHEM 10062	GENERAL CHEMISTRY I LABORATORY (KBS) (KLAB)	1
EXSC 15010	INTRODUCTION TO EXERCISE SCIENCE	2

MATH 11010	ALGEBRA FOR CALCULUS (KMCR)	3
UC 10097	DESTINATION KENT STATE: FIRST YEAR EXPERIENCE	1
Credit Hours		15

**Semester Two**

BSCI 10110	BIOLOGICAL DIVERSITY (KBS) (KLAB)	4
CHEM 10061	GENERAL CHEMISTRY II (KBS)	4
CHEM 10063	GENERAL CHEMISTRY II LABORATORY (KBS) (KLAB)	1
MATH 11022	TRIGONOMETRY (KMCR)	3
Kent Core Requirement		3
Credit Hours		15

**Semester Three**

ATTR 25057	HUMAN ANATOMY AND PHYSIOLOGY I (KBS) (KLAB)	4
EXSC 25057	or HUMAN ANATOMY AND PHYSIOLOGY I (KBS) (KLAB)	
HED 14020	MEDICAL TERMINOLOGY	3
PSYC 11762	GENERAL PSYCHOLOGY (DIVD) (KSS)	3
Chemistry Elective		4
Kent Core Requirement		3
Credit Hours		17

**Semester Four**

ATTR 25058	HUMAN ANATOMY AND PHYSIOLOGY II (KBS) (KLAB)	4
EXSC 25058	or HUMAN ANATOMY AND PHYSIOLOGY II (KBS) (KLAB)	
ATTR 35040	STRENGTH AND CONDITIONING	2
EXSC 45040	or ADVANCED STRENGTH AND CONDITIONING	
GERO 14029	INTRODUCTION TO GERONTOLOGY (DIVD) (KSS)	3
Chemistry Elective or General Electives		3-4
Kent Core Requirement		3
Credit Hours		15

**Semester Five**

ATTR 35054	BIOMECHANICS	3
EXSC 35054	or BIOMECHANICS	
EXSC 35068	STATISTICS FOR THE EXERCISE SCIENTIST	3
EXSC 45481	SEMINAR IN EXERCISE PHYSIOLOGY	1
NUTR 23511	SCIENCE OF HUMAN NUTRITION (KBS)	3
PHY 13001	GENERAL COLLEGE PHYSICS I (KBS)	4
PHY 13021	GENERAL COLLEGE PHYSICS LABORATORY I (KBS) (KLAB)	1
Credit Hours		15

**Semester Six**

EXSC 35023	PROFESSIONAL CERTIFICATE PREPARATION	2
EXSC 45080	PHYSIOLOGY OF EXERCISE (WIC)	3
NURS 20950	HUMAN GROWTH AND DEVELOPMENT FOR HEALTH PROFESSIONALS	3
PESP 25033	or LIFESPAN MOTOR DEVELOPMENT	
NUTR 33512	INTERMEDIATE NUTRITION SCIENCE	3
PHY 13002	GENERAL COLLEGE PHYSICS II (KBS)	4
PHY 13022	GENERAL COLLEGE PHYSICS LABORATORY II (KBS) (KLAB)	1
Credit Hours		16

**Semester Seven**

EXSC 35022	EXERCISE LEADERSHIP	3
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EXSC 45096	INDIVIDUAL INVESTIGATION IN EXERCISE SCIENCE (ELR)	3
EXSC 45492	INTERNSHIP IN PHYSICAL FITNESS AND CARDIAC REHABILITATION (ELR)	3
PSYC 40111	ABNORMAL PSYCHOLOGY	3
Kent Core Requirement		3
Credit Hours		15
<b>Semester Eight</b>		
Kent Core Requirement		3
General Electives		9
Credit Hours		12
Minimum Total Credit Hours:		120

## Health Education and Promotion - M.Ed.

### College of Education Health and Human Services

School of Health Sciences

100 Nixson Hall

Kent Campus

330-672-2197

[www.kent.edu/ehhs/hs](http://www.kent.edu/ehhs/hs)

## Description

The Master of Education degree in Health Education and Promotion is designed to enable individuals to pursue their diverse interests in the field while addressing the competencies essential to the professional development of health educators

Students in the program utilize theoretical models of attitude and behavioral change in assessing educational needs, designing educational interventions, evaluating the effectiveness of program efforts, and advocating for creative and competent health education opportunities. These skills prepare graduates for various employment positions in local, state and national government; K-12 schools and community colleges; health care facilities; worksite wellness programs; and nonprofit organizations.

Students are encouraged to pursue certification: Certified Health Education Specialist (CHES) or Master Certified Health Education (MCHES).

The Health Education and Promotion major comprises the following concentrations:

- The **Community Health** concentration provides background for those who will be involved in positions of leadership in a wide variety of health-related community settings, as well as for those who plan to pursue doctoral work in fields related to health education and health promotion.
- The **School Health Licensure** concentration enables graduates to teach health in schools or pursue diverse interests in the field. Competencies essential to school health education are addressed.

### Fully Offered At:

- Kent Campus

## Accreditation

National Council for the Accreditation of Teacher Education

## Admission Requirements

- Bachelor's degree from an accredited college or university for unconditional admission
- Minimum 3.000 undergraduate GPA on a 4.000 point scale for unconditional admission
- Official transcript(s)
- Current Ohio teaching license (required for School Health Licensure concentration only)
- Goal statement
- Two letters of recommendation
- English language proficiency - all international students must provide proof of English language proficiency (unless they meet specific exceptions) by earning one of the following:
  - Minimum 550 TOEFL PBT score (paper-based version)
  - Minimum 79 TOEFL IBT score (Internet-based version)
  - Minimum 77 MELAB score
  - Minimum 79 IELTS score
  - Minimum 58 PTE score
  - Minimum 110 Duolingo English Test score

For more information about graduate admissions, please visit the Graduate Studies admission website. For more information on international admission, visit the Office of Global Education's admission website.

## Program Learning Outcomes

Graduates of this program will be able to:

1. Assess needs, assets and capacity for health education.
2. Plan health education and promotion activities.
3. Implement health education and promotion programs.
4. Conduct program evaluation and research in health education.
5. Serve as health education resource person.
6. Administer and manage health education.
7. Communicate and advocate for health and health education.

## Program Requirements

### Major Requirements

Code	Title	Credit Hours
<b>Major Requirements</b>		
HED 64050	HEALTH BEHAVIOR	3
HED 64055	NEEDS ASSESSMENT AND EVALUATION IN HEALTH PROMOTION	3
HED 64057	PROGRAM PLANNING AND IMPLEMENTATION IN HEALTH PROMOTION	3
HED 64059	COMMUNICATION AND MARKETING IN HEALTH EDUCATION AND PROMOTION	3
HED 64061	FOUNDATIONS OF HEALTH EDUCATION AND PROMOTION	3

HED 64063	STRATEGIES IN HEALTH EDUCATION AND PROMOTION <sup>1</sup>	3
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<b>Concentrations</b>		
Choose from the following:		15
Community Health		
School Health Licensure		
Minimum Total Credit Hours:		33

<sup>1</sup> HED 64063 will complete the student teaching requirement. State or Federal background checks may be required for practicum/internship experiences.

## Community Health Concentration Requirements

Code	Title	Credit Hours
<b>Concentration Requirements</b>		
HED 64030	INTRODUCTION TO RESEARCH AND DATA ANALYSIS IN HEALTH EDUCATION AND PROMOTION	3
HED 64062	ADMINISTRATION AND GRANT WRITING IN HEALTH PROMOTION	3
HED 64080	ADVOCACY AND POLICY ISSUES IN HEALTH EDUCATION AND PROMOTION	3
Health Education Electives (HED 50000 or 60000 level) <sup>1</sup>		6
Minimum Total Credit Hours:		15

<sup>1</sup> Students are recommended to select courses around a common theme, such as sexuality, substance abuse or other options approved by advisor. Students who plan to pursue a doctorate are recommended to take courses in research and statistics.

## School Health Licensure Concentration Requirements

Code	Title	Credit Hours
<b>Concentration Requirements</b>		
HED 54543	ADMINISTRATION OF SCHOOL HEALTH PROGRAMS	3
HED 54544	SEXUALITY EDUCATION PROGRAMS	3
HED 54550	DRUG ABUSE AND VIOLENCE EDUCATION PROGRAMS	3
HED 54051	BIOBEHAVIORAL ASPECTS OF DISEASE PREVENTION IN HEALTH EDUCATION AND PROMOTION	3
HED 64058	DEVELOPMENTAL APPROACHES IN TEACHING SCHOOL HEALTH EDUCATION <sup>1</sup>	3
Minimum Total Credit Hours:		15

<sup>1</sup> HED 64058 will complete the student teaching requirement. State or Federal background checks may be required for practicum/internship experiences.

## Licensure Information

Candidates seeking Ohio licensure are required to pass specific assessments in order to apply for licensure. Students should consult their advisors for specific program requirements and refer to the Ohio Department of Education-Educator Preparation website for more information on assessments specific to licensure type.

## Graduation Requirements

M.Ed. degree candidates have six years from the term of first enrollment to complete the degree.

# Health Education and Promotion - Ph.D.

## College of Education Health and Human Services

School of Health Sciences  
100 Nixson Hall  
Kent Campus  
330-672-2197  
oss@kent.edu  
www.kent.edu/ehhs/hs

## Description

The Ph.D. degree in Health Education and Promotion emphasizes the interaction among the theoretical, empirical and applied nature of health education. Health education borrows from many disciplines, including community organization, education, medicine, biological science, psychology, statistics and communication.

Although the program is designed for health educators, applicants are drawn from a variety of fields, including health education, nursing, nutrition, the medical technologies and social sciences. The program is particularly appropriate for those seeking employment in higher education or career advancement within the broad scope of health education. Graduates work in schools, higher education, government agencies, hospitals and non-profit agencies.

State/Federal background checks may be required for practicum/internship experiences.

## Fully Offered At:

- Kent Campus

## Accreditation

National Council for the Accreditation of Teacher Education

## Admission Requirements

- Master's degree from an accredited college or university<sup>1</sup> for unconditional admission
- Minimum 3.000 graduate GPA on a 4.000 point scale (minimum 3.500 GPA is recommended) for unconditional admission
- Official transcript(s)
- Résumé or vita
- Goal statement
- Two letters of recommendation
- Interview
- English language proficiency - all international students must provide proof of English language proficiency (unless they meet specific exceptions) by earning one of the following:
  - Minimum 550 TOEFL PBT score (paper-based version)
  - Minimum 79 TOEFL IBT score (Internet-based version)
  - Minimum 77 MELAB score

- Minimum 6.5 IELTS score
- Minimum 58 PTE score
- Minimum 110 Duolingo English Test score

The college will assess health education and promotion applicants holistically, considering academic credentials, related professional experiences, academic or professional references, scholarly activities and professional activities, among others. For more information about graduate admissions, please visit the Graduate Studies admission website. For more information on international admission, visit the Office of Global Education’s admission website.

<sup>1</sup> Students who are admitted to the Ph.D. degree without an equivalent master’s degree in health education and promotion may be required to complete additional coursework, which will not be counted towards the degree.

## Program Learning Outcomes

Graduates of this program will be able to:

1. Assess needs, assets and capacity for health education.
2. Plan health education and promotion activities.
3. Implement health education and promotion programs.
4. Conduct program evaluation and research in health education.
5. Serve as health education resource person.
6. Administer and manage health education.
7. Communicate and advocate for health and health education.

## Program Requirements

### Major Requirements

Code	Title	Credit Hours
<b>Major Requirements</b>		
EVAL 75510	STATISTICS I FOR EDUCATIONAL SERVICES	3
EVAL 85515	QUANTITATIVE RESEARCH DESIGN AND ANALYSIS	3
EVAL 85516	QUALITATIVE RESEARCH DESIGN	3
EVAL 85517	ADVANCED QUANTITATIVE RESEARCH IN EDUCATIONAL SERVICES	3
or EVAL 85518	ADVANCED QUALITATIVE RESEARCH IN EDUCATIONAL SERVICES	
HED 80292	PRACTICUM IN HEALTH EDUCATION AND PROMOTION	3
HED 81100	RESIDENCY SEMINAR: SYNTHESIS OF LITERATURE IN HEALTH EDUCATION AND PROMOTION	3
HED 81150	SEMINAR: PROFESSIONAL DEVELOPMENT IN HEALTH EDUCATION AND PROMOTION	3
HED 81200	RESIDENCY SEMINAR: RESEARCH PROPOSAL, DEVELOPMENT AND PRESENTATION	3
HED 81400	RESEARCH DISSEMINATION AND TECHNICAL WRITING IN HEALTH EDUCATION AND PROMOTION	3
HED 81450	ADVANCED PROGRAM EVALUATION IN HEALTH EDUCATION AND PROMOTION	3
HED 81550	APPLIED THEORY IN HEALTH EDUCATION RESEARCH AND PRACTICE	3
Specialization Courses <sup>1</sup>		6
Dissertation		

HED 80199	DISSERTATION I <sup>2</sup>	30
Minimum Total Credit Hours:		69

<sup>1</sup> Students choose an area of specialization—such as school health, sexuality or substance abuse prevention—as developed with advisory phase committee.

<sup>2</sup> Upon admission to candidacy, each doctoral candidate must register for HED 80199. It is expected that a doctoral candidate will continuously register for Dissertation I for a total of 30 credit hours, and thereafter HED 80299, each semester until all requirements for the degree have been met.

## Licensure Information

Candidates seeking Ohio licensure are required to pass specific assessments in order to apply for licensure. Students should consult their advisors for specific program requirements and refer to the Ohio Department of Education-Educator Preparation website for more information on assessments specific to licensure type.

## Human Sexuality - Minor

### College of Education Health and Human Services

School of Health Sciences  
 100 Nixon Hall  
 Kent Campus  
 330-672-2197  
[www.kent.edu/ehhs/hs](http://www.kent.edu/ehhs/hs)

## Description

The Human Sexuality minor gives students an opportunity to study a range of issues—basic, in-depth and controversial—that covers women’s health, HIV/AIDS and the teaching of sexuality in age-in developmentally appropriate ways. The flexible nature of the minor allows students to design their program to align with their interests and primary study.

### Fully Offered At:

- Kent Campus

## Admission Requirements

Admission to a minor is open to students declared in a bachelor’s degree, the A.A.B. or A.A.S. degree or the A.T.S. degree (not Individualized Program major). Students declared only in the A.A. or A.S. degree or the A.T.S. degree in Individualized Program may not declare a minor. Students may not pursue a minor and a major in the same discipline.

Students declared in the School Health Education major or the Community Health Education major may not declare the Human Sexuality minor.

To declare this minor, students must have attempted a minimum 12 credit hours at Kent State and earned a minimum 2.000 overall Kent State GPA. Students who have not attempted 12 credit hours at Kent State will be evaluated for admission based on their high school GPA for new students or transfer GPA for transfer students. Transfer students who have not attempted 12 credit hours of college-level coursework at Kent State and/or other institutions will be evaluated based on both their high school GPA and college GPA.

## Minor Requirements

Code	Title	Credit Hours
<b>Minor Requirements</b>		
HED 32544	HUMAN SEXUALITY	3
HED 44025	WOMEN'S HEALTH ISSUES	3
HED 46057	ADVANCED HUMAN SEXUALITY	3
HED 47070	AIDS: ISSUES, EDUCATION AND PREVENTION	3
Sexuality Electives, choose from the following:		6
COMM 35912	GENDER AND COMMUNICATION (DIVD)	
HDFS 24011	INTERPERSONAL RELATIONSHIPS AND FAMILIES (DIVD)	
HDFS 44022	CHANGING ROLES OF MEN AND WOMEN	
HDFS 44030	FAMILY LIFE EDUCATION METHODOLOGY	
PSYC 40625	DEVELOPMENT OF GENDER ROLE AND IDENTITY (DIVD)	
SOC 24011	INTERPERSONAL RELATIONSHIPS AND FAMILIES	
SOC 32560	SOCIOLOGY OF FAMILIES (DIVD)	
WMST 20095	SPECIAL TOPICS IN WOMEN'S STUDIES	
WMST 30000	COLLOQUIUM IN WOMEN'S STUDIES (DIVD)	
Other electives courses require faculty approval		
Lesbian, Gay, Bisexual and Transgender Studies Elective, choose from the following:		3
ENG 21003	INTRODUCTION TO LGBT LITERATURE (DIVD)	
ENG 35301	LESBIAN, GAY, BISEXUAL AND TRANSGENDER: CRITICAL PERSPECTIVES (DIVD)	
LGBT 20020	INTRODUCTION TO LESBIAN, GAY, BISEXUAL, TRANSGENDER AND QUEER STUDIES	
POL 40620	POLITICS OF SOCIAL MOVEMENTS (DIVD)	
PSYC 40625	DEVELOPMENT OF GENDER ROLE AND IDENTITY (DIVD)	
SOC 32560	SOCIOLOGY OF FAMILIES (DIVD)	
SOC 32565	SOCIOLOGY OF SEXUALITIES (DIVD)	
SOC 32570	INEQUALITY IN SOCIETIES (DIVD)	
SOC 42315	SOCIOLOGY OF GENDER (DIVD)	
SOC 42359	SOCIAL MOVEMENTS	
SOC 42400	SELF AND IDENTITY	
THEA 41115	LGBTQ THEATRE (DIVD)	
WMST 30000	COLLOQUIUM IN WOMEN'S STUDIES (DIVD)	
Minimum Total Credit Hours:		21

## Graduation Requirements

Minimum Minor GPA	Minimum Overall GPA
2.500	2.000

- Minimum 6 credit hours in the minor must be upper-division coursework (30000 and 40000 level).
- Minimum 6 credit hours in the minor must be outside of the course requirements for any major or other minor the student is pursuing.
- Minimum 50 percent of the total credit hours for the minor must be taken at Kent State (in residence).

## Integrated Health Studies - B.S.

College of Education Health and Human Services  
School of Health Sciences

100 Nixson Hall  
Kent Campus  
330-672-2197  
www.kent.edu/ehhs/hs

## Description

The Bachelor of Science degree in Integrated Health Studies is designed for students interested in pursuing studies related to the health and medical professions. The primary mission of the program is to educate individuals to serve present and future needs of an increasingly diverse society in the professional fields associated with health and/or medical services. Fundamental to its mission is the education of students to excel as practitioners and provide leadership to their respective disciplines.

The major comprises three concentrations:

- The **Health Care Administration and Systems** concentration prepares students for administrative positions in the health care industry. In addition, students may wish to pursue graduate study in such fields as business administration, health administration, exercise/leisure/sports administration and public health. A business minor can be obtained with additional coursework and GPA requirements.
- The **Health Sciences** concentration includes a strong basic science core (biology, chemistry, physics), as well as an applied science core (physiology of exercise, nutrition). Graduates are prepared for science-based graduate programs, especially physical or occupational therapy, and other advanced study options such as physicians assistant programs.
- The **Health Services** concentration provides comprehensive study of health professions, human development and human services. Graduates are prepared for careers in the service-delivery sector of the health care industry, such as non-profit and/or government agencies (e.g., health departments, national/state/local health organizations). This program is designed to offer more flexibility in coursework selection for pre-nursing coursework or minors or certificates (eg. health educator, non-profit management, psychology). The program also provide students in associate degrees in the allied health areas (e.g., physical or occupational therapy assisting technology) with the opportunity to obtain a highly relevant bachelor's degree.

## Fully Offered At:

- Kent Campus

## Admission Requirements

The university affirmatively strives to provide educational opportunities and access to students with varied backgrounds, those with special talents and adult students who graduated from high school three or more years ago.

**Freshman Students on the Kent Campus:** The freshman admission policy on the Kent Campus is selective. Admission decisions are based upon the following: cumulative grade point average, ACT and/or SAT scores, strength of high school college preparatory curriculum and grade trends. The Admissions Office at the Kent Campus may defer the admission of students who do not meet admissions criteria but who demonstrate areas of promise for successful college study. Deferred applicants may begin their college coursework at one of seven regional campuses of Kent State University. For more information on admissions,



including additional requirements for some academic programs, visit the admissions website for new freshmen.

**Freshman Students on the Regional Campuses:** Kent State campuses at Ashtabula, East Liverpool, Geauga, Salem, Stark, Trumbull and Tuscarawas, as well as the Regional Academic Center in Twinsburg, have open enrollment admission for students who hold a high school diploma, GED or equivalent.

**English Language Proficiency Requirements for International Students:** All international students must provide proof of English language proficiency (unless they meet specific exceptions) by earning a minimum 525 TOEFL score (71 on the Internet-based version), minimum 75 MELAB score, minimum 6.0 IELTS score or minimum 48 PTE score, or by completing the ESL level 112 Intensive Program. For more information on international admission, visit the Office of Global Education’s admission website.

**Transfer, Transitioning and Former Students:** For more information about admission criteria for transfer, transitioning and former students, please visit the admissions website.

**Current Kent State and Transfer Students:** Active Kent State students who wish to change their major must have attempted a minimum 12 credit hours at Kent State and earned a minimum 2.000 overall Kent State GPA to be admitted. Students who have not attempted 12 credit hours at Kent State will be evaluated for admission based on their high school GPA for new students or transfer GPA for transfer students. Transfer students who have not attempted 12 credit hours of college-level coursework at Kent State and/or other institutions will be evaluated based on both their high school GPA and college GPA.

## Program Learning Outcomes

Graduates of this program will be able to:

1. Integrate and apply knowledge, values and skills from their coursework across the health and human services fields to applicable work settings.
2. Identify, present and critique the role of health care professionals and policies/issues facing the health and human services fields in order to better meet the needs of individuals, communities and society in the provision of services.

## University Requirements

All students in a bachelor’s degree program at Kent State University must complete the following university requirements for graduation.

**NOTE:** University requirements may be fulfilled in this program by specific course requirements. Please see Program Requirements for details.

Destination Kent State: First Year Experience	1
Course is not required for students with 25 transfer credits, excluding College Credit Plus, or age 21+ at time of admission.	
Diversity Domestic/Global (DIVD/DIVG)	2 courses
Students must successfully complete one domestic and one global course, of which one must be from the Kent Core.	
Experiential Learning Requirement (ELR)	varies
Students must successfully complete one course or approved experience.	

Kent Core (see table below)	36-37
Writing-Intensive Course (WIC)	1 course
Students must earn a minimum C grade in the course.	
Upper-Division Requirement	39 (or 42)
Students must successfully complete 39 upper-division (numbered 30000 to 49999) credit hours to graduate. Students in a B.A. and/or B.S. degree in the College of Arts and Sciences must complete 42 upper-division credit hours.	
Total Credit Hour Requirement	120
Some bachelor's degrees require students to complete more than 120 credit hours.	

## Kent Core Requirements

Kent Core Composition (KCMP)	6
Kent Core Mathematics and Critical Reasoning (KMCR)	3
Kent Core Humanities and Fine Arts (KHUM/KFA) (min one course each)	9
Kent Core Social Sciences (KSS) (must be from two disciplines)	6
Kent Core Basic Sciences (KBS/KLAB) (must include one laboratory)	6-7
Kent Core Additional (KADL)	6
<b>Total Credit Hours:</b>	<b>36-37</b>

## Program Requirements

### Major Requirements

Code	Title	Credit Hours
<b>Major Requirements (courses count in major GPA)</b>		
HED 14020	MEDICAL TERMINOLOGY	3
IHS 10000	CAREERS IN HEALTH SCIENCES AND HUMAN SERVICES	3
IHS 40091	SEMINAR FOR PRACTICUM IN INTEGRATED HEALTH STUDIES	2
IHS 44010	RESEARCH DESIGN AND STATISTICAL METHODS IN THE HEALTH PROFESSIONS	3
IHS 44091	PROFESSIONAL SEMINAR IN INTEGRATED HEALTH STUDIES (WIC) <sup>1</sup>	3
IHS 44092	PRACTICUM IN INTEGRATED HEALTH STUDIES (ELR) <sup>2</sup>	3-10
NURS 45010	HEALTHCARE POLICY AND DELIVERY SYSTEMS	3
or NURS 46000	HEALTH CARE POLICY	
PHIL 40005	HEALTH CARE ETHICS	3
PSYC 21621	QUANTITATIVE METHODS IN PSYCHOLOGY I	3
<b>Additional Requirements (courses do not count in major GPA)</b>		
PSYC 11762	GENERAL PSYCHOLOGY (DIVD) (KSS)	3
UC 10097	DESTINATION KENT STATE: FIRST YEAR EXPERIENCE	1
Kent Core Composition		6
Kent Core Humanities and Fine Arts (minimum one course from each)		9
General Electives (total credit hours depends on earning 120 credit hours, including 39 upper-division credit hours)		10
<b>Concentrations</b>		
Choose from the following:		65
Health Care Administration and Systems		
Health Sciences		

## Health Services

Minimum Total Credit Hours:	120
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- <sup>1</sup> A minimum C grade must be earned to fulfill the writing-intensive requirement.
- <sup>2</sup> State or Federal background checks may be required for practicum/internship experiences.

## Health Care Administration and Systems concentration Requirements

Code	Title	Credit Hours
<b>Concentration Requirements (courses count in major GPA)</b>		
ACCT 23020	INTRODUCTION TO FINANCIAL ACCOUNTING	3
ACCT 23021	INTRODUCTION TO MANAGERIAL ACCOUNTING	3
CIS 24053	INTRODUCTION TO COMPUTER APPLICATIONS	3
ECON 22060	PRINCIPLES OF MICROECONOMICS (KSS)	3
ECON 22061	PRINCIPLES OF MACROECONOMICS (KSS)	3
ECON 42086	ECONOMICS OF HEALTH CARE	3
JMC 28001	PRINCIPLES OF PUBLIC RELATIONS	3
LTCA 44032	LONG-TERM CARE ADMINISTRATION I	3
MGMT 24163	PRINCIPLES OF MANAGEMENT	3
MKTG 25010	PRINCIPLES OF MARKETING	3
POL 30301	INTRODUCTION TO PUBLIC ADMINISTRATION	3
PSYC 41581	HEALTH PSYCHOLOGY	3
or SOC 42563	SOCIOLOGY OF HEALTH AND HEALTH CARE	
<b>Additional Requirements (courses do not count in major GPA)</b>		
MATH 11009	MODELING ALGEBRA (KMCR)	4
Biology (BSCI) Course from Kent Core Basic Sciences <sup>1</sup>		3-4
Chemistry (CHEM) Course from Kent Core Basic Sciences <sup>1</sup>		3-4
Kent Core Additional		3
General Electives (total credit hours depends on earning 120 credit hours, including 39 upper-division credit hours)		16
Minimum Total Credit Hours:		65

- <sup>1</sup> Minimum one course must include a laboratory.

## Health Sciences Concentration Requirements

Code	Title	Credit Hours
<b>Concentration Requirements (courses count in major GPA)</b>		
ATTR/EXSC 25057	HUMAN ANATOMY AND PHYSIOLOGY I (KBS) (KLAB) <sup>1</sup>	4
ATTR/EXSC 25058	HUMAN ANATOMY AND PHYSIOLOGY II (KBS) (KLAB) <sup>1</sup>	4
ATTR/EXSC 35054	BIOMECHANICS	3
BSCI 10110	BIOLOGICAL DIVERSITY (KBS) (KLAB)	4
BSCI 10120	BIOLOGICAL FOUNDATIONS (KBS) (KLAB)	4
CHEM 10060	GENERAL CHEMISTRY I (KBS) <sup>2</sup>	4
CHEM 10061	GENERAL CHEMISTRY II (KBS) <sup>2</sup>	4
CHEM 20481	BASIC ORGANIC CHEMISTRY I	4
EXSC 45080	PHYSIOLOGY OF EXERCISE (WIC) <sup>3</sup>	3
MATH 11022	TRIGONOMETRY (KMCR)	3
PSYC 41581	HEALTH PSYCHOLOGY	3
or SOC 42563	SOCIOLOGY OF HEALTH AND HEALTH CARE	
SPA 44111	NEURAL PROCESSES	3
Health Sciences Electives, choose from the following: <sup>4</sup>		6

ATTR 45040	PATHOLOGY AND PHARMACOLOGY FOR ALLIED HEALTH CARE PROVIDERS	
BSCI 20021	BASIC MICROBIOLOGY	
BSCI 30130	HUMAN PHYSIOLOGY	
BSCI 30050	HUMAN GENETICS	
BSCI 30140	CELL BIOLOGY	
CHEM 30284	INTRODUCTORY BIOLOGICAL CHEMISTRY	
EXSC 35075	EXERCISE PROGRAMMING	
HDFS 44021	FAMILY INTERVENTION ACROSS THE LIFESPAN	
NURS 20950	HUMAN GROWTH AND DEVELOPMENT FOR HEALTH PROFESSIONALS	
NUTR 33512	INTERMEDIATE NUTRITION SCIENCE	
PESP 25033	LIFESPAN MOTOR DEVELOPMENT	
PSYC 40111	ABNORMAL PSYCHOLOGY	
<b>Additional Requirements (courses do not count in major GPA)</b>		
MATH 11010	ALGEBRA FOR CALCULUS (KMCR) (min C grade)	3
PHY 13001	GENERAL COLLEGE PHYSICS I (KBS)	4
PHY 13002	GENERAL COLLEGE PHYSICS II (KBS)	4
PHY 13021	GENERAL COLLEGE PHYSICS LABORATORY I (KBS) (KLAB)	1
PHY 13022	GENERAL COLLEGE PHYSICS LABORATORY II (KBS) (KLAB)	1
Kent Core Social Sciences		3
Minimum Total Credit Hours:		65

- <sup>1</sup> Students who have successfully completed BSCI 11010/BSCI 11020 may use those courses in place of ATTR 25057/ATTR 25058.
- <sup>2</sup> Students who plan to pursue graduate studies are recommended to also take laboratories CHEM 10062 and CHEM 10063.
- <sup>3</sup> A minimum C grade must be earned to fulfill the writing-intensive requirement.
- <sup>4</sup> Students must complete a minimum of one upper division course (30000 or 40000 level) to fulfill this concentration elective requirement.

## Health Services Concentration Requirements

Code	Title	Credit Hours
<b>Concentration Requirements (courses count in major GPA)</b>		
Introduction to Professional Electives, choose from the following: <sup>1</sup>		4-6
GERO 14029	INTRODUCTION TO GERONTOLOGY (DIVD) (KSS)	
HDFS 14027	INTRODUCTION TO HUMAN DEVELOPMENT AND FAMILY STUDIES	
HDFS 44033	COMMUNITY OUTREACH IN NONPROFIT MANAGEMENT (ELR)	
HED 21030	INTRODUCTION TO HEALTH EDUCATION	
HSRV 11000	FOUNDATIONS OF HUMAN SERVICES	
NURS 10060	INTRODUCTION TO PROFESSIONAL NURSING PRACTICE	
NURS 20020	FOUNDATIONS OF ASSESSMENT AND COMMUNICATION IN NURSING	
OCAT 10000	FOUNDATIONS IN OCCUPATIONAL THERAPY	
PTST 10000	INTRODUCTION TO PHYSICAL THERAPIST ASSISTANT	
Human Development Electives, choose from the following:		15-16
BSCI 30050	HUMAN GENETICS	
BSCI 30130	HUMAN PHYSIOLOGY	

GERO 44030	ADULT DEVELOPMENT AND AGING (WIC)	
HDFS 24011	INTERPERSONAL RELATIONSHIPS AND FAMILIES (DIVD)	
HDFS 24012	CHILD DEVELOPMENT	
HDFS 44020	ADOLESCENT DEVELOPMENT	
HED 11570	PERSONAL HEALTH	
HED 21050	HEALTH EDUCATION THEORIES	
HED 32530	DRUG USE AND MISUSE	
HED 32544	HUMAN SEXUALITY	
HED 44025	WOMEN'S HEALTH ISSUES	
HED 46057	ADVANCED HUMAN SEXUALITY	
NURS 20950	HUMAN GROWTH AND DEVELOPMENT FOR HEALTH PROFESSIONALS	
NUTR 33512	INTERMEDIATE NUTRITION SCIENCE	
PSYC 41581	HEALTH PSYCHOLOGY	
Health Services Electives, choose from the following: <sup>1</sup>		14
HDFS 34031	CULTURAL DIVERSITY:IMPLICATIONS FOR THE HELPING PROFESSIONS	
HDFS 44032	NONPROFIT FUNDRAISING AND GRANTWRITING	
HDFS 44034	PRINCIPLES AND PRACTICES OF NONPROFIT MANAGEMENT	
HED 11590	COMMUNITY HEALTH EDUCATION	
HED 32542	METHODS AND APPLICATIONS OF HEALTH EDUCATION (WIC)	
HED 34050	PROGRAM PLANNING AND EVALUATION IN HEALTH EDUCATION	
HED 42041	HEALTH COACHING	
NURS 20030	FOUNDATIONS OF NURSING INTERVENTIONS	
PSYC 40383	INTRODUCTION TO CLINICAL PSYCHOLOGY	
SOC 42563	SOCIOLOGY OF HEALTH AND HEALTH CARE	
<b>Additional Requirements (courses do not count in major GPA)</b>		
MATH 11009	MODELING ALGEBRA (KMCR)	4
Biology (BSCI) Course from Kent Core Basic Sciences <sup>2</sup>		3-4
Chemistry (CHEM) Course from Kent Core Basic Sciences <sup>2</sup>		3-4
Kent Core Social Sciences		3
Kent Core Additional		6
General Electives (total credit hours depends on earning 120 credit hours, including 39 upper-division credit hours)		13
Minimum Total Credit Hours:		65

<sup>1</sup> Allied health coursework may be used to fulfill the requirements for the Introduction to Profession Electives (maximum 5 credit hours) and Health Services Electives (maximum 9 credit hours).

<sup>2</sup> Minimum one course must include a laboratory.

## Graduation Requirements

Minimum Major GPA	Minimum Overall GPA
2.250	2.000

## Roadmaps

- Health Care Administration and Systems Concentration
- Health Sciences Concentration
- Health Services Concentration

## HEALTH CARE ADMINISTRATION AND SYSTEMS CONCENTRATION

This roadmap is a recommended semester-by-semester plan of study for this major. However, courses designated as critical (!) must be completed in the semester listed to ensure a timely graduation.

Semester One		Credits
IHS 10000	CAREERS IN HEALTH SCIENCES AND HUMAN SERVICES	3
MATH 11009	MODELING ALGEBRA (KMCR)	4
UC 10097	DESTINATION KENT STATE: FIRST YEAR EXPERIENCE	1
Kent Core Requirement		3
Kent Core Requirement		3
Credit Hours		14
Semester Two		
HED 14020	MEDICAL TERMINOLOGY	3
Biology (BSCI) or Chemistry (CHEM) Course from Kent Core Basic Sciences		3-4
Kent Core Requirement		3
Kent Core Requirement		3
Kent Core Requirement		3
Credit Hours		15
Semester Three		
ACCT 23020	INTRODUCTION TO FINANCIAL ACCOUNTING	3
ECON 22060	PRINCIPLES OF MICROECONOMICS (KSS)	3
JMC 28001	PRINCIPLES OF PUBLIC RELATIONS	3
PSYC 11762	GENERAL PSYCHOLOGY (DIVD) (KSS)	3
Kent Core Requirement		3
Credit Hours		15
Semester Four		
ACCT 23021	INTRODUCTION TO MANAGERIAL ACCOUNTING	3
CIS 24053	INTRODUCTION TO COMPUTER APPLICATIONS	3
ECON 22061	PRINCIPLES OF MACROECONOMICS (KSS)	3
Biology (BSCI) or Chemistry (CHEM) Course from Kent Core Basic Sciences		3-4
General Elective		3
Credit Hours		15
Semester Five		
MKTG 25010	PRINCIPLES OF MARKETING	3
MGMT 24163	PRINCIPLES OF MANAGEMENT	3
POL 30301	INTRODUCTION TO PUBLIC ADMINISTRATION	3
PSYC 21621	QUANTITATIVE METHODS IN PSYCHOLOGY I	3
General Elective		3
Credit Hours		15
Semester Six		
ECON 42086	ECONOMICS OF HEALTH CARE	3
NURS 45010 or NURS 46000	HEALTHCARE POLICY AND DELIVERY SYSTEMS or HEALTH CARE POLICY	3
PSYC 41581 or SOC 42563	HEALTH PSYCHOLOGY or SOCIOLOGY OF HEALTH AND HEALTH CARE	3
General Electives		6
Credit Hours		15
Semester Seven		
IHS 44010	RESEARCH DESIGN AND STATISTICAL METHODS IN THE HEALTH PROFESSIONS	3

LTCA 44032	LONG-TERM CARE ADMINISTRATION I	3
PHIL 40005	HEALTH CARE ETHICS	3
General Electives		6
Credit Hours		15
Semester Eight		
! IHS 40091	SEMINAR FOR PRACTICUM IN INTEGRATED HEALTH STUDIES	2
! IHS 44091	PROFESSIONAL SEMINAR IN INTEGRATED HEALTH STUDIES (WIC)	3
IHS 44092	PRACTICUM IN INTEGRATED HEALTH STUDIES (ELR)	3-10
General Electives		8
Credit Hours		16
Minimum Total Credit Hours:		120

## Health Sciences Concentration

This roadmap is a recommended semester-by-semester plan of study for this major. However, courses designated as critical (!) must be completed in the semester listed to ensure a timely graduation.

Semester One		Credits
BSCI 10110 or CHEM 10060	BIOLOGICAL DIVERSITY (KBS) (KLAB) or GENERAL CHEMISTRY I (KBS)	4
IHS 10000	CAREERS IN HEALTH SCIENCES AND HUMAN SERVICES	3
MATH 11010	ALGEBRA FOR CALCULUS (KMCR)	3
UC 10097	DESTINATION KENT STATE: FIRST YEAR EXPERIENCE	1
Kent Core Requirement		3
Kent Core Requirement		3
Credit Hours		17
Semester Two		
BSCI 10120 or CHEM 10061	BIOLOGICAL FOUNDATIONS (KBS) (KLAB) or GENERAL CHEMISTRY II (KBS)	4
HED 14020	MEDICAL TERMINOLOGY	3
MATH 11022	TRIGONOMETRY (KMCR)	3
PSYC 11762	GENERAL PSYCHOLOGY (DIVD) (KSS)	3
Kent Core Requirement		3
Credit Hours		16
Semester Three		
ATTR 25057 or EXSC 25057	HUMAN ANATOMY AND PHYSIOLOGY I (KBS) (KLAB) or HUMAN ANATOMY AND PHYSIOLOGY I (KBS) (KLAB)	4
BSCI 10110 or CHEM 10060	BIOLOGICAL DIVERSITY (KBS) (KLAB) or GENERAL CHEMISTRY I (KBS)	4
PSYC 21621	QUANTITATIVE METHODS IN PSYCHOLOGY I	3
Kent Core Requirement		3
Kent Core Requirement		3
Credit Hours		17
Semester Four		
ATTR 25058 or EXSC 25058	HUMAN ANATOMY AND PHYSIOLOGY II (KBS) (KLAB) or HUMAN ANATOMY AND PHYSIOLOGY II (KBS) (KLAB)	4
BSCI 10120 or CHEM 10061	BIOLOGICAL FOUNDATIONS (KBS) (KLAB) or GENERAL CHEMISTRY II (KBS)	4
Kent Core Requirement		3
General Electives		4
Credit Hours		15
Semester Five		
ATTR 35054 or EXSC 35054	BIOMECHANICS or BIOMECHANICS	3
PHY 13001	GENERAL COLLEGE PHYSICS I (KBS)	4
PHY 13021	GENERAL COLLEGE PHYSICS LABORATORY I (KBS) (KLAB)	1
General Electives		6
Credit Hours		14

Semester Six		
NURS 45010 or NURS 46000	HEALTHCARE POLICY AND DELIVERY SYSTEMS or HEALTH CARE POLICY	3
PHY 13002	GENERAL COLLEGE PHYSICS II (KBS)	4
PHY 13022	GENERAL COLLEGE PHYSICS LABORATORY II (KBS) (KLAB)	1
PSYC 41581 or SOC 42563	HEALTH PSYCHOLOGY or SOCIOLOGY OF HEALTH AND HEALTH CARE	3
Health Sciences Elective		3
Credit Hours		14
Semester Seven		
CHEM 20481	BASIC ORGANIC CHEMISTRY I	4
! IHS 40091	SEMINAR FOR PRACTICUM IN INTEGRATED HEALTH STUDIES	2
IHS 44092	PRACTICUM IN INTEGRATED HEALTH STUDIES (ELR)	3-10
PHIL 40005	HEALTH CARE ETHICS	3
Health Science Elective		3
Credit Hours		15
Semester Eight		
EXSC 45080	PHYSIOLOGY OF EXERCISE (WIC)	3
! IHS 44091	PROFESSIONAL SEMINAR IN INTEGRATED HEALTH STUDIES (WIC)	3
IHS 44010	RESEARCH DESIGN AND STATISTICAL METHODS IN THE HEALTH PROFESSIONS	3
SPA 44111	NEURAL PROCESSES	3
Credit Hours		12
Minimum Total Credit Hours:		120



## Health Services Concentration

This roadmap is a recommended semester-by-semester plan of study for this major. However, courses designated as critical (!) must be completed in the semester listed to ensure a timely graduation.

Semester One		Credits
IHS 10000	CAREERS IN HEALTH SCIENCES AND HUMAN SERVICES	3
MATH 11009	MODELING ALGEBRA (KMCR)	4
UC 10097	DESTINATION KENT STATE: FIRST YEAR EXPERIENCE	1
Kent Core Requirement		3
Kent Core Requirement		3
Credit Hours		14
Semester Two		Credits
HED 14020	MEDICAL TERMINOLOGY	3
Biology (BSCI) or Chemistry (CHEM) Course from Kent Core Basic Sciences		3-4
Kent Core Requirement		3
Kent Core Requirement		3
Kent Core Requirement		3
Credit Hours		15
Semester Three		Credits
PSYC 11762	GENERAL PSYCHOLOGY (DIVD) (KSS)	3
Human Development Electives		6-7
Introduction to Professions Elective		3
Kent Core Requirement		3
Credit Hours		15
Semester Four		Credits
PSYC 21621	QUANTITATIVE METHODS IN PSYCHOLOGY I	3
Biology (BSCI) or Chemistry (CHEM) Course from Kent Core Basic Sciences		3-4
Human Development Elective		3
Introduction to Professions Elective		1-3
Kent Core Requirement		3
General Elective		3
Credit Hours		16
Semester Five		Credits
Health Services Electives		6
Human Development Elective		3
Kent Core Requirement		3
General Elective		3
Credit Hours		15
Semester Six		Credits
NURS 45010 or NURS 46000	HEALTHCARE POLICY AND DELIVERY SYSTEMS or HEALTH CARE POLICY	3
Health Services Elective		3
Human Development Elective		3
General Electives		6
Credit Hours		15
Semester Seven		Credits
IHS 44010	RESEARCH DESIGN AND STATISTICAL METHODS IN THE HEALTH PROFESSIONS	3
PHIL 40005	HEALTH CARE ETHICS	3
General Electives		9
Credit Hours		15

### Semester Eight

! IHS 40091	SEMINAR FOR PRACTICUM IN INTEGRATED HEALTH STUDIES	2
! IHS 44091	PROFESSIONAL SEMINAR IN INTEGRATED HEALTH STUDIES (WIC)	3
IHS 44092	PRACTICUM IN INTEGRATED HEALTH STUDIES (ELR)	3-10
Health Services Electives		5
General Elective		2
Credit Hours		15
Minimum Total Credit Hours:		120

## Nutrition - B.S.

### College of Education Health and Human Services

School of Health Sciences  
100 Nixon Hall  
Kent Campus  
330-672-2197  
[www.kent.edu/ehhs/hs](http://www.kent.edu/ehhs/hs)

## Description

The Bachelor of Science degree in Nutrition provides students with a broad general education and a strong foundation in nutrition, dietetics and the sciences. The emphasis is integrating theory, research and application of knowledge to the profession of dietetics. The curriculum meets the didactic program in dietetics requirements of the Academy of Nutrition and Dietetics, and graduates are eligible for admission to accredited internships. The faculty has expertise in nutritional sciences, exercise science, clinical and community practice and leadership studies.

### Fully Offered At:

- Kent Campus

## Accreditation

Accreditation Council for Education in Nutrition and Dietetics (ACEND)

## Admission Requirements

The university affirmatively strives to provide educational opportunities and access to students with varied backgrounds, those with special talents and adult students who graduated from high school three or more years ago.

**Freshman Students on the Kent Campus:** The freshman admission policy on the Kent Campus is selective. Admission decisions are based upon the following: cumulative grade point average, ACT and/or SAT scores, strength of high school college preparatory curriculum and grade trends. The Admissions Office at the Kent Campus may defer the admission of students who do not meet admissions criteria but who demonstrate areas of promise for successful college study. Deferred applicants may begin their college coursework at one of seven regional campuses of Kent State University. For more information on admissions, including additional requirements for some academic programs, visit the admissions website for new freshmen.

**Freshman Students on the Regional Campuses:** Kent State campuses at Ashtabula, East Liverpool, Geauga, Salem, Stark, Trumbull and Tuscarawas, as well as the Regional Academic Center in Twinsburg, have

open enrollment admission for students who hold a high school diploma, GED or equivalent.

#### English Language Proficiency Requirements for International Students:

All international students must provide proof of English language proficiency (unless they meet specific exceptions) by earning a minimum 525 TOEFL score (71 on the Internet-based version), minimum 75 MELAB score, minimum 6.0 IELTS score or minimum 48 PTE score, or by completing the ESL level 112 Intensive Program. For more information on international admission, visit the Office of Global Education's admission website.

**Transfer, Transitioning and Former Students:** For more information about admission criteria for transfer, transitioning and former students, please visit the admissions website.

**Current Kent State and Transfer Students:** Active Kent State students who wish to change their major must have attempted a minimum 12 credit hours at Kent State and earned a minimum 2.000 overall Kent State GPA to be admitted. Students who have not attempted 12 credit hours at Kent State will be evaluated for admission based on their high school GPA for new students or transfer GPA for transfer students. Transfer students who have not attempted 12 credit hours of college-level coursework at Kent State and/or other institutions will be evaluated based on both their high school GPA and college GPA.

## Program Learning Outcomes

Graduates of the program will be able to:

1. Apply knowledge and skills necessary to plan and evaluate menus and diets of individuals/groups to promote nutritional health and well-being.
2. Demonstrate the ability to use oral and written communication skills effectively in the practice of nutrition and dietetics.
3. Demonstrate the ability to interpret current research and utilize critical thinking skills in the practice of nutrition and dietetics.
4. Apply acquired knowledge and skills to enroll in a supervised practice program, advanced/professional study or employment.

## University Requirements

All students in a bachelor's degree program at Kent State University must complete the following university requirements for graduation.

**NOTE:** University requirements may be fulfilled in this program by specific course requirements. Please see Program Requirements for details.

Destination Kent State: First Year Experience	1
Course is not required for students with 25 transfer credits, excluding College Credit Plus, or age 21+ at time of admission.	
Diversity Domestic/Global (DIVD/DIVG)	2 courses
Students must successfully complete one domestic and one global course, of which one must be from the Kent Core.	
Experiential Learning Requirement (ELR)	varies
Students must successfully complete one course or approved experience.	
Kent Core (see table below)	36-37
Writing-Intensive Course (WIC)	1 course
Students must earn a minimum C grade in the course.	

Upper-Division Requirement	39 (or 42)
Students must successfully complete 39 upper-division (numbered 30000 to 49999) credit hours to graduate. Students in a B.A. and/or B.S. degree in the College of Arts and Sciences must complete 42 upper-division credit hours.	
Total Credit Hour Requirement	120
Some bachelor's degrees require students to complete more than 120 credit hours.	

## Kent Core Requirements

Kent Core Composition (KCMP)	6
Kent Core Mathematics and Critical Reasoning (KMCR)	3
Kent Core Humanities and Fine Arts (KHUM/KFA) (min one course each)	9
Kent Core Social Sciences (KSS) (must be from two disciplines)	6
Kent Core Basic Sciences (KBS/KLAB) (must include one laboratory)	6-7
Kent Core Additional (KADL)	6
<b>Total Credit Hours:</b>	<b>36-37</b>

## Requirements

### Major Requirements

Code	Title	Credit Hours
<b>Major Requirements (courses count in major GPA)</b>		
BSCI 20021	BASIC MICROBIOLOGY	3
BSCI 30130	HUMAN PHYSIOLOGY	3
CHEM 20481	BASIC ORGANIC CHEMISTRY I	4
CHEM 30284	INTRODUCTORY BIOLOGICAL CHEMISTRY	4
HM/NUTR 23012	INTRODUCTORY FOOD SCIENCE	3
HM/NUTR 23510	QUANTITY FOOD PRODUCTION, SERVICE AND SAFETY	3
HM/NUTR 43030	FOOD SERVICE SYSTEMS MANAGEMENT	3
MGMT 24163	PRINCIPLES OF MANAGEMENT	3
NUTR 23112	INTRODUCTION TO THE PROFESSION: NUTRITION AND DIETETICS	1
NUTR 23511	SCIENCE OF HUMAN NUTRITION (KBS)	3
NUTR 33512	INTERMEDIATE NUTRITION SCIENCE	3
NUTR 33522	INTRODUCTION TO NUTRITION ASSESSMENT	3
NUTR 33532	BUSINESS AND MANAGEMENT OF NUTRITION SERVICES	3
NUTR 35319	NUTRITION, HEALTH AND SOCIETY	3
NUTR 43013	RESEARCH AND STATISTICAL METHODS IN NUTRITION AND DIETETICS (WIC) <sup>2</sup>	3
NUTR 43016	WORLD FOOD CUSTOMS AND NUTRITION	3
NUTR 43511	MEDICAL NUTRITION THERAPY I	3
NUTR 43512	MACRONUTRIENT NUTRITIONAL BIOCHEMISTRY	3
NUTR 43513	MICRONUTRIENT NUTRITIONAL BIOCHEMISTRY	3
NUTR 43514	MEDICAL NUTRITION THERAPY II	3
NUTR 43515	COMMUNITY NUTRITION (ELR)	3
NUTR 43518	LIFECYCLE NUTRITION	3
NUTR 43522	INTEGRATIVE AND FUNCTIONAL NUTRITION	2
NUTR 43523	NUTRITION AND DIETETICS:PROFESSIONAL PRACTICE	1
<b>Additional Requirements (courses do not count in major GPA)</b>		
BSCI 20019	BIOLOGICAL STRUCTURE AND FUNCTION	4

CHEM 10060	GENERAL CHEMISTRY I (KBS)	4
CHEM 10061	GENERAL CHEMISTRY II (KBS)	4
MATH 11009	MODELING ALGEBRA (KMCR)	4
PSYC 11762	GENERAL PSYCHOLOGY (DIVD) (KSS)	3
SOC 12050	INTRODUCTION TO SOCIOLOGY (DIVD) (KSS)	3
UC 10097	DESTINATION KENT STATE: FIRST YEAR EXPERIENCE	1
Kent Core Composition		6
Kent Core Basic Science Laboratory <sup>3</sup>		1
Kent Core Humanities and Fine Arts (minimum one course from each)		9
Kent Core Additional		3
General Electives (total credit hours depends on earning 120 credit hours, including 39 upper-division credit hours)		9
Minimum Total Credit Hours:		120

<sup>1</sup> Equivalent to BMRT 11009

<sup>2</sup> A minimum C grade must be earned to fulfill the writing-intensive requirement.

<sup>3</sup> It is recommended that students take CHEM 10062 as the Kent Core Basic Sciences laboratory.

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## Graduation Requirements

Minimum Major GPA	Minimum Overall GPA
2.250	2.000

## Roadmap

This roadmap is a recommended semester-by-semester plan of study for this major. However, courses designated as critical (!) must be completed in the semester listed to ensure a timely graduation.

Semester One		Credits
!	CHEM 10060 GENERAL CHEMISTRY I (KBS)	4
	MATH 11009 MODELING ALGEBRA (KMCR)	4
!	NUTR 23112 INTRODUCTION TO THE PROFESSION: NUTRITION AND DIETETICS	1
	NUTR 23511 SCIENCE OF HUMAN NUTRITION (KBS)	3
	UC 10097 DESTINATION KENT STATE: FIRST YEAR EXPERIENCE	1
	Kent Core Requirement	3
	Credit Hours	16
Semester Two		
!	BSCI 20019 BIOLOGICAL STRUCTURE AND FUNCTION	4
	CHEM 10061 GENERAL CHEMISTRY II (KBS)	4
	HM 23510 QUANTITY FOOD PRODUCTION, SERVICE AND SAFETY or NUTR 23510 or QUANTITY FOOD PRODUCTION, SERVICE AND SAFETY	3
	PSYC 11762 GENERAL PSYCHOLOGY (DIVD) (KSS)	3
	Kent Core Basic Science Laboratory	1
	Credit Hours	15
Semester Three		
	CHEM 20481 BASIC ORGANIC CHEMISTRY I	4
	HM 23012 INTRODUCTORY FOOD SCIENCE or NUTR 23012 or INTRODUCTORY FOOD SCIENCE	3
	SOC 12050 INTRODUCTION TO SOCIOLOGY (DIVD) (KSS)	3
	Kent Core Requirement	3
	Kent Core Requirement	3
	Credit Hours	16
Semester Four		
	CHEM 30284 INTRODUCTORY BIOLOGICAL CHEMISTRY	4
	NUTR 33512 INTERMEDIATE NUTRITION SCIENCE	3
	NUTR 33522 INTRODUCTION TO NUTRITION ASSESSMENT	3
	Kent Core Requirement	3
	Kent Core Requirement	3
	Credit Hours	16
Semester Five		
	BSCI 30130 HUMAN PHYSIOLOGY	3
	MGMT 24163 PRINCIPLES OF MANAGEMENT	3
	NUTR 33532 BUSINESS AND MANAGEMENT OF NUTRITION SERVICES	3
	NUTR 35319 NUTRITION, HEALTH AND SOCIETY	3
	Kent Core Requirement	3
	Credit Hours	15
Semester Six		
	BSCI 20021 BASIC MICROBIOLOGY	3
	NUTR 43013 RESEARCH AND STATISTICAL METHODS IN NUTRITION AND DIETETICS (WIC)	3
	NUTR 43016 WORLD FOOD CUSTOMS AND NUTRITION	3
	NUTR 43518 LIFECYCLE NUTRITION	3
	General Electives	3
	Credit Hours	15

### Semester Seven

HM 43030 or NUTR 43030	FOOD SERVICE SYSTEMS MANAGEMENT or FOOD SERVICE SYSTEMS MANAGEMENT	3
NUTR 43511	MEDICAL NUTRITION THERAPY I	3
NUTR 43512	MACRONUTRIENT NUTRITIONAL BIOCHEMISTRY	3
NUTR 43523	NUTRITION AND DIETETICS:PROFESSIONAL PRACTICE	1
	General Electives	3
	Credit Hours	13

### Semester Eight

NUTR 43513	MICRONUTRIENT NUTRITIONAL BIOCHEMISTRY	3
NUTR 43522	INTEGRATIVE AND FUNCTIONAL NUTRITION	2
NUTR 43514	MEDICAL NUTRITION THERAPY II	3
NUTR 43515	COMMUNITY NUTRITION (ELR)	3
	General Electives	3
	Credit Hours	14
	Minimum Total Credit Hours:	120

## Nutrition - M.S.

### College of Education Health and Human Services

School of Health Sciences

100 Nixson Hall

Kent Campus

330-672-2197

[www.kent.edu/ehhs/hs](http://www.kent.edu/ehhs/hs)

## Description

The Master of Science degree in Nutrition emphasizes a strong nutritional sciences foundation through coursework and opportunities to participate in interdisciplinary research in community settings. Graduates obtain positions as nutrition-exercise specialists; cooperative extension nutrition specialists; higher education instructors; research associates; and as nutritionists in health care and community agencies such as Head Start and Women, Infants and Children (WIC).

The Nutrition major includes the following optional concentration:

- The **Dietetic Internship** concentration provide students with the resources and experiences needed to develop the skills necessary to become competent Registered Dietitian Nutritionists (RDN). Emphasis is placed on intellectual, technological, and professional development while fostering ethical and humanitarian values.

### Fully Offered At:

- Kent Campus

## Accreditation

Dietetic Internship concentration: Accreditation Council for Education in Nutrition and Dietetics (ACEND)

## Admission Requirements

- Bachelor's degree from an accredited college or university for unconditional admission

- Minimum 3.000 undergraduate GPA on a 4.000 point scale for unconditional admission
- Upper level, undergraduate coursework in biochemistry, physiology and advanced nutrition
- Official transcript(s)
- Goal statement
- Didactic Program in Dietetics (DPD) verification statement (required for Dietetic Internship concentration only)
- Dietetic internship application through the Dietetic Internship Centralized Application System (DICAS) with D & D Digital Computer Matching (required for Dietetic Internship concentration only)
- Three letters of recommendation
- English language proficiency - all international students must provide proof of English language proficiency (unless they meet specific exceptions) by earning one of the following:
  - Minimum 550 TOEFL PBT score (paper-based version)
  - Minimum 79 TOEFL IBT score (Internet-based version)
  - Minimum 77 MELAB score
  - Minimum 6.5 IELTS score
  - Minimum 58 PTE score
  - Minimum 110 Duolingo English Test score

For more information about graduate admissions, please visit the Graduate Studies admission website. For more information on international admission, visit the Office of Global Education's admission website.

## Program Learning Outcomes

Graduates of this program will be able to:

1. Describe the physiological functions, metabolism, dietary requirements, deficiency symptoms, food sources and the metabolic utilization of macronutrients and micronutrients for physiological processes; and how they relate to nutrition, health promotion and disease prevention/treatment.
2. Contribute to the quality of life, well-being and wellness of individuals and families by utilizing their nutrition knowledge and participating in activities that promote nutritional well-being.
3. Demonstrate an understanding of research methods and apply knowledge gained by participation in research and/or outreach.

## Program Requirements

### Major Requirements

Code	Title	Credit Hours
<b>Major Requirements</b>		
Eval 65510	STATISTICS I FOR EDUCATIONAL SERVICES	3
Nutr 61018	TECHNIQUES OF RESEARCH IN FAMILY AND CONSUMER STUDIES	3
Nutr 63519	ADVANCED STUDY OF MICRONUTRIENTS	3
Nutr 63520	MACRONUTRIENT NUTRITION	3
Nutr 63521	NUTRITION AND DISEASE: CLINICAL APPLICATIONS	3
Thesis or Master's Project Option		6
Nutr 61198	MASTER'S PROJECT <sup>1</sup>	
Nutr 63199	THESIS I <sup>2</sup>	

Supporting Electives, choose from the following in consultation with advisor. <sup>3</sup>		6
Nutr 51095	SPECIAL TOPICS IN NUTRITION	
Nutr 51096	INDIVIDUAL INVESTIGATION IN NUTRITION	
Nutr 53013	RESEARCH AND STATISTICAL METHODS IN NUTRITION	
Nutr 53016	WORLD FOOD CUSTOMS AND NUTRITION	
Nutr 53512	MACRONUTRIENT NUTRITIONAL BIOCHEMISTRY	
Nutr 53513	MICRONUTRIENT NUTRITIONAL BIOCHEMISTRY	
Nutr 53514	MEDICAL NUTRITION THERAPY II	
Nutr 53515	COMMUNITY NUTRITION	
Nutr 53518	LIFECYCLE NUTRITION	
Nutr 53520	SPORTS NUTRITION	
Nutr 53532	METHODS AND EXPERIENCES IN NUTRITION OUTREACH	
Nutr 63524	PERSPECTIVE ON PREVENTION AND PRACTICE IN COMMUNITY NUTRITION	
Nutr 63591	NUTRITION SEMINAR <sup>4</sup>	
<b>Additional Requirements or Concentration</b>		
Choose from the following:		5-16
Additional Requirements for Students Not Declaring a Concentration		
Dietetic Internship Concentration		
Minimum Total Credit Hours:		32-43

- <sup>1</sup> The master's project is intended for students who do not plan to continue graduate work beyond the master's degree. The option provides the opportunity to approach research and theory in a more applied manner. The presentation and interpretation of original research is not required. However, approval of the intended project by the student's master's project committee is required, as is the successful completion of an oral final examination conducted by the master's project committee.
- <sup>2</sup> The thesis is intended for research-oriented students and is designed to provide the opportunity to conduct original research. Approval of a thesis proposal by the student's thesis committee is required as is the successful completion of an oral final examination conducted by the thesis committee.
- <sup>3</sup> Students not in the Dietetic Internship may take HM 63024 toward the supporting electives.
- <sup>4</sup> Maximum 3 credit hours of Nutr 63591 may be applied towards the degree.

### Additional Requirements for Students Not Declaring a Concentration

Code	Title	Credit Hours
<b>Major Requirements</b>		
Additional Requirements (may be selected from other graduate courses in clearly related areas)		5
Minimum Total Credit Hours:		5



## Dietetic Internship Concentration Requirements

Code	Title	Credit Hours
<b>Concentration Requirements</b>		
HM 63024	MANAGEMENT OF FOOD AND NUTRITION SERVICES	3
NUTR 63525	DIETETIC PRACTICE: COMMUNITY	1
NUTR 63526	DIETETIC PRACTICE: MANAGEMENT	1
NUTR 63527	DIETETIC PRACTICE: CLINICAL	1
NUTR 63592	DIETETIC INTERNSHIP <sup>1</sup>	10
Minimum Total Credit Hours:		16

<sup>1</sup> All students in dietetic internships are required to obtain criminal background checks, including the Bureau of Criminal Investigation and Identification (BCII) for the State of Ohio and the Federal Bureau of Investigation (FBI) prior to beginning practice experiences, annually, until internship practice experiences are complete and additionally as required by facilities.

## School Health Education (P-12) Additional Licensure Preparation - Non-Degree

College of Education Health and Human Services

School of Health Sciences

100 Nixson Hall

Kent Campus

330-672-2197

www.kent.edu/ehhs/hs

### Description

The School Health Education (9-12) Additional Licensure Preparation non-degree program is designed for professionals who already hold a teaching license and who desire an additional teaching license in school health education. It meets the national and state professional preparation standards for school health educators that emphasize program planning, implementation, and evaluation of accurate and current health education information for diverse learners in PreK-12 educational settings.

The non-degree program is not a master's degree program. Students interested in obtaining a teaching license and a master's degree from Kent State University must also be fully admitted into the master's degree program and complete the prescribed coursework on the master's degree prospectus.

### Fully Offered At:

- Kent Campus

### Admission Requirements

- Bachelor's degree from an accredited institution
- Minimum 3.000 GPA
- Official Transcripts
- Goal Statement
- Two letters of recommendation
- Questions in Anticipation of Licensure form

- Evidence of valid 4-Year Resident Educator or 5-Year Professional State of Ohio teaching license

### Program Learning Outcomes

Completers of this program will be able to:

1. Demonstrate competency in health education content, health literacy skills, and digital literacy skills for the purpose of instilling healthy behaviors in all learners.
2. Plan relevant, meaningful, age and developmentally appropriate, ability centered, and culturally sensitive school health education instruction and programs that are theoretically based, sequential, and aligned with the national health education standards.
3. Implement a range of school health education instructional strategies equitably and reflectively to meet the diverse needs of all learners.
4. Use multiple methods of assessment to enhance the acquisition of functional health knowledge and health-related skill proficiency for all learners.
5. Work collaboratively with various stakeholders in advocating school health education as an integral component of the school experience, demonstrate ethical behavior, and engage in and reflect on various professional learning

### Program Requirements

#### Licensure Requirements

Code	Title	Credit Hours
<b>Licensure Requirements</b>		
HED 54051	BIOBEHAVIORAL ASPECTS OF DISEASE PREVENTION IN HEALTH EDUCATION AND PROMOTION	3
HED 54543	ADMINISTRATION OF SCHOOL HEALTH PROGRAMS	3
HED 54544	SEXUALITY EDUCATION PROGRAMS	3
HED 54550	DRUG ABUSE AND VIOLENCE EDUCATION PROGRAMS	3
HED 64050	HEALTH BEHAVIOR	3
HED 57091	CURRENT ISSUES IN HEALTH EDUCATION AND PROMOTION	1
HED 64058	DEVELOPMENTAL APPROACHES IN TEACHING SCHOOL HEALTH EDUCATION	3
HED 64063	STRATEGIES IN HEALTH EDUCATION AND PROMOTION	3
Minimum Total Credit Hours:		22

### Progression Requirements

- Must maintain a 3.000 overall GPA

### Graduation Requirements

- Minimum 3.000 overall GPA
- An analysis of additional content-area coursework required at the post-undergraduate level will be completed before entering into the program, and a Plan of Study will be created based on transcript analysis and current licensure requirements by the Ohio Department of Education. A minimum B grade is required in each of these courses. This coursework would be in addition to requirements for the School Health Education non-degree program.

## Licensure Information

Prior to program completion, the candidate must demonstrate proficiencies in the following areas (including but not limited to): Data literacy and analysis, use of research and assessment data, leadership and collaboration, utilizing and supporting appropriate technology for the discipline, and application of professional dispositions, laws and policies, codes of ethics and professional standards appropriate to their field of specialization.

Candidates seeking Ohio teaching licensure are required to pass specific requirements in order to apply for licensure from the Ohio Department of Education (ODE). Students should consult the Health Sciences department for specific program requirements and refer to the Ohio Department of Education - Educator Preparation website for more information on assessments specific to licensure type.

## School Health Education - B.S.E.

### College of Education Health and Human Services

School of Health Sciences  
100 Nixon Hall  
Kent Campus  
330-672-2197  
www.kent.edu/ehhs/hs

## Description

The Bachelor of Science in Education degree in School Health Education prepares individuals to teach health education in the schools. Graduates are eligible to pursue the state's multi-age licensure. Students complete a variety of field experiences and a culminating student teaching experience.

The Health and Physical Education optional concentration allows students to seek Ohio teacher licensure in both health education and physical education. The program is designed to be completed in five years, and can allow students to satisfy up to 12 credit hours of program requirements with graduate courses.

### Fully Offered At:

- Kent Campus

## Accreditation

National Council for Accreditation of Teacher Education

## Admission Requirements

Admission to this major is selective. Admission to the college does not guarantee admission to a major and/or admission to professional coursework for a selective admission program. To be admitted directly into a teacher education program, it is required that new freshmen have a 2.750 high school GPA. Students who do not meet the GPA requirement at the time of admission for this major will be admitted to the EHHS General non-degree program until which time they have established a Kent State GPA of 2.750. They may then submit a change of program to declare this major.

Students are accepted into a teacher licensure program by transfer if they have achieved a minimum 2.750 GPA in previous college coursework. They must meet with an academic advisor in 304 White Hall as soon

as possible to review specific requirements for admission to advanced study.

### English Language Proficiency Requirements for International Students:

All international students must provide proof of English language proficiency (unless they meet specific exceptions) by earning a minimum 525 TOEFL score (71 on the Internet-based version), minimum 75 MELAB score, minimum 6.0 IELTS score or minimum 48 PTE Academic score, or by completing the ELS level 112 Intensive Program. For more information on international admission, visit the Office of Global Education's admission website.

**Current Kent State and Transfer Students:** Active Kent State students who wish to change their major must have attempted a minimum 12 credit hours at Kent State and meet all admission criteria listed above to be admitted. Students who have not attempted 12 credit hours at Kent State will be evaluated for admission based on their high school GPA for new students or transfer GPA for transfer students. Transfer students who have not attempted 12 credit hours of college-level coursework at Kent State and/or other institutions will be evaluated based on both their high school GPA and college GPA.

## Program Learning Outcomes

Graduates of the program will be able to:

1. Analyze factors affecting the successful implementation of health education and Coordinated School Health (CSH); select media and resources best suited to implement plans for diverse learners; exhibit competence in carrying out planned programs; and monitor educational programs, adjusting objectives and instructional strategies as necessary.
2. Evaluate the effectiveness of CSH; develop plans to assess student achievement of program objectives; carry out evaluation plans; interpret results of program evaluation; and infer implications of evaluation findings for future programs.
3. Coordinate provision of health education programs and services and develop a plan for comprehensive school health education with other components of a school health program; demonstrate the dispositions and skills to facilitate cooperation among health educators, other teachers, and appropriate school staff; formulate practical modes of collaboration among health educators in all settings and other school and community health professionals; and organize professional development programs for teachers, other school personnel, community members, and other interested individuals.
4. Utilize computerized health information retrieval systems effectively; establish effective consultative relationships with those requesting assistance in solving health-related problems; interpret and respond to requests for health information; and select effective educational resource materials for dissemination.
5. Communicate health information needs, concerns, and resources; interpret concepts, purposes, and theories of health education; predict the impact of social value systems on health education programs; select a variety of communication methods and techniques in providing health information; and foster communication between health care providers and consumers.
6. Obtain health-related data about social and cultural environments, growth and development factors, and needs and interests of students; distinguish between the behaviors that foster and those

that hinder well-being; and determine health education needs based on observed and obtained data.

- Recruit school and community representatives to support and assist in program planning; develop a logical scope and sequence plan for a health education program; formulate appropriate and measurable learner objectives; and design educational strategies consistent with specified learner objectives.
- Communicate and advocate for health and school health education by analyzing and responding to factors that impact current and future needs in comprehensive school health education, applying a variety of communication methods and techniques, advocating for school health education, and demonstrating professionalism.

## University Requirements

All students in a bachelor's degree program at Kent State University must complete the following university requirements for graduation.

**NOTE:** University requirements may be fulfilled in this program by specific course requirements. Please see Program Requirements for details.

Destination Kent State: First Year Experience	1
Course is not required for students with 25 transfer credits, excluding College Credit Plus, or age 21+ at time of admission.	
Diversity Domestic/Global (DIVD/DIVG)	2 courses
Students must successfully complete one domestic and one global course, of which one must be from the Kent Core.	
Experiential Learning Requirement (ELR)	varies
Students must successfully complete one course or approved experience.	
Kent Core (see table below)	36-37
Writing-Intensive Course (WIC)	1 course
Students must earn a minimum C grade in the course.	
Upper-Division Requirement	39 (or 42)
Students must successfully complete 39 upper-division (numbered 30000 to 49999) credit hours to graduate. Students in a B.A. and/or B.S. degree in the College of Arts and Sciences must complete 42 upper-division credit hours.	
Total Credit Hour Requirement	120
Some bachelor's degrees require students to complete more than 120 credit hours.	

## Kent Core Requirements

Kent Core Composition (KCOMP)	6
Kent Core Mathematics and Critical Reasoning (KMCR)	3
Kent Core Humanities and Fine Arts (KHUM/KFA) (min one course each)	9
Kent Core Social Sciences (KSS) (must be from two disciplines)	6
Kent Core Basic Sciences (KBS/KLAB) (must include one laboratory)	6-7
Kent Core Additional (KADL)	6
<b>Total Credit Hours:</b>	<b>36-37</b>

## Program Requirements

### Major Requirements

Code	Title	Credit Hours
<b>Major Requirements (courses count in major GPA; minimum C grade in all courses)</b>		
HED 11570	PERSONAL HEALTH	3
HED 21030	INTRODUCTION TO HEALTH EDUCATION	3
HED 21050	HEALTH EDUCATION THEORIES	3
HED 30000	TEACHING HEALTH TO YOUNG LEARNERS <sup>1</sup>	3
HED 32530	DRUG USE AND MISUSE	3
HED 32542	METHODS AND APPLICATIONS OF HEALTH EDUCATION (WIC) <sup>1</sup>	5
HED 32544	HUMAN SEXUALITY	3
HED 34050	PROGRAM PLANNING AND EVALUATION IN HEALTH EDUCATION	3
HED 42041	HEALTH COACHING	3
HED 44543	ADMINISTRATION OF SCHOOL HEALTH PROGRAMS	3
HED 44544	SEXUALITY EDUCATION PROGRAMS	3
HED 44550	DRUG ABUSE AND VIOLENCE EDUCATION PROGRAMS	3

<b>Additional Requirements (courses do not count in major GPA)</b>		
CI 47330	READING AND WRITING IN ADOLESCENCE/ADULTHOOD (min C grade)	3
COMM 15000	INTRODUCTION TO HUMAN COMMUNICATION (KADL) (min C grade)	3
CULT 29535	EDUCATION IN A DEMOCRATIC SOCIETY (min C grade)	3
EPSY 29525	EDUCATIONAL PSYCHOLOGY (min C grade)	3
NUTR 23511	SCIENCE OF HUMAN NUTRITION (KBS) (min C grade)	3
PSYC 11762	GENERAL PSYCHOLOGY (DIVD) (KSS) (min C grade)	3
SPED 23000	INTRODUCTION TO EXCEPTIONALITIES (DIVD) (min C grade)	3
UC 10097	DESTINATION KENT STATE: FIRST YEAR EXPERIENCE	1
Kent Core Composition (min C grade)		6
Kent Core Mathematics and Critical Reasoning		3
Kent Core Humanities and Fine Arts (minimum one course from each)		6
Kent Core Social Science (must be from two disciplines)		3

<b>Additional Requirements or Concentration</b>		
Choose from the following:		42-79
Additional Requirements for Students Not Declaring a Concentration		
Health and Physical Education concentration		
Minimum Total Credit Hours:		120-157

<sup>1</sup> Teacher candidates are only permitted to repeat a field experience course once. Please see Repeating Field Experience Courses in Teacher Education Programs policy for details.

## Additional Requirements for Students Not Declaring a Concentration

Code	Title	Credit Hours
<b>Major Requirements (courses count in major GPA)</b>		
HED 11590	COMMUNITY HEALTH EDUCATION (min C grade)	3
HED 42392	STUDENT TEACHING IN HEALTH EDUCATION (ELR) <sup>1</sup>	9
HED 49525	INQUIRY SEMINAR INTO PROFESSIONAL PRACTICE (min C grade)	3
PWS 10035	LIFETIME FITNESS (min C grade)	2
Health Education Electives, choose from the following (min C grade):		8
HED 32575	CONSUMER HEALTH	
HED 34060	SMALL GROUP PROCESS	
HED 42575	HEALTH AND LEARNING: STRATEGIES FOR STUDENTS AND TEACHERS	
HED 44025	WOMEN'S HEALTH ISSUES	
HED 46052	STRESS: RECOGNITION AND MANAGEMENT	
HED 46057	ADVANCED HUMAN SEXUALITY	
HED 47070	AIDS: ISSUES, EDUCATION AND PREVENTION	
HED 48092	FIELD EXPERIENCE IN HEALTH EDUCATION AND PROMOTION (ELR)	
<b>Additional Requirements (courses do not count in major GPA)</b>		
BSCI 10001	HUMAN BIOLOGY (KBS) (min C grade)	3
ETEC 39525	EDUCATIONAL TECHNOLOGY (min C grade)	3
ETEC 47427	TECHNOLOGY AND LEARNING (min C grade)	3
or ETEC 47400	TRENDS IN EDUCATIONAL TECHNOLOGY	
PHIL 11001	INTRODUCTION TO PHILOSOPHY (DIVG) (KHUM) (min C grade)	3
or PHIL 21001	INTRODUCTION TO ETHICS (DIVG) (KHUM)	
PSYC 20651	CHILD PSYCHOLOGY (DIVD) (KSS) (min C grade)	3
Kent Core Basic Sciences Laboratory		1
General Elective		1
Minimum Total Credit Hours:		42

<sup>1</sup> Teacher candidates are only permitted to repeat a field experience course once. Please see Repeating Field Experience Courses in Teacher Education Programs policy for details.

## Health and Physical Education Concentration Requirements

Code	Title	Credit Hours
<b>Concentration Requirements (courses count in major GPA)</b>		
ATTR/EXSC 25057	HUMAN ANATOMY AND PHYSIOLOGY I (KBS) (KLAB) (min C grade) <sup>1</sup>	4
EHHS 49592	STUDENT TEACHING IN HEALTH AND PHYSICAL EDUCATION (ELR) <sup>2</sup>	10
HED 49525	INQUIRY SEMINAR INTO PROFESSIONAL PRACTICE (min C grade)	3
PESP 15010	INTRODUCTION TO PHYSICAL EDUCATION, FITNESS AND SPORT (min C grade)	3
PESP 15011	DEVELOPMENT AND ANALYSIS OF INVASION GAMES (min C grade)	3
PESP 15015	DEVELOPMENT AND ANALYSIS OF NET GAMES (min C grade)	3

PESP 15016	DEVELOPMENT AND ANALYSIS OF TARGET AND FIELD GAMES (min C grade)	3
PESP 15020	FUNDAMENTAL MOVEMENT, GYMNASTICS AND DANCE (min C grade)	3
PESP 25025	TEACHING IN PHYSICAL EDUCATION (min C grade) <sup>2</sup>	3
PESP 25026	OVERVIEW OF OUTDOOR PURSUITS AND ADVENTURE EDUCATION (min C grade)	3
PESP 25033	LIFESPAN MOTOR DEVELOPMENT (min C grade)	3
PESP 25056	ASSESSMENT OF LEARNING IN PHYSICAL EDUCATION AND SPORT (min C grade)	3
PESP 35020	FITNESS EDUCATION (min C grade)	3
PESP 35084	MOTOR SKILL ANALYSIS (min C grade)	3
PESP 45037	ADAPTED PHYSICAL EDUCATION (min C grade) <sup>2</sup>	3
PESP 45051	ELEMENTARY SCHOOL PHYSICAL EDUCATION METHODS (min C grade) <sup>2</sup>	3
PESP 45053	ELEMENTARY SCHOOL PHYSICAL EDUCATION CONTENT (min C grade) <sup>2</sup>	3
PESP 45058	SECONDARY SCHOOL PHYSICAL EDUCATION METHODS (min C grade) <sup>2</sup>	3
PESP 45059	SECONDARY SCHOOL PHYSICAL EDUCATION CONTENT (min C grade) <sup>2</sup>	3
PESP 49525	INQUIRY INTO PROFESSIONAL PRACTICE IN PHYSICAL EDUCATION (min C grade)	3
SPAD 35065	HISTORY AND PHILOSOPHY OF SPORT AND PHYSICAL ACTIVITY (WIC) (min C grade)	3
Physical Activity, Wellness and Sport (PWS) Electives, choose from the following (min C grade):		2
PWS 10020	DEVELOPMENT AND CONDITIONING	
PWS 10036	FITNESS WALKING	
PWS 10306	JOGGING	
PWS 10403	BEGINNING BALLROOM DANCE	
PWS 10413	LATIN SOCIAL DANCE	
PWS 11426	VARSITY SPORT TRAINING AND CONDITIONING	
PWS 11604	BEGINNING KARATE	
PWS 11633	JU JITSU	
PWS 11634	SELF-DEFENSE	
PWS 11663	BEGINNING YOGA	
PWS 11664	PILATES	
PWS 11665	ZUMBA	
PWS 11666	BEGINNING SPINNING	
PWS 11667	BOOT CAMP I	
PWS 11673	INTERMEDIATE YOGA	
PWS 11674	INTERMEDIATE PILATES	
PWS 11675	ZUMBA TONING	
PWS 12324	WEIGHT TRAINING	
PWS 12325	WOMEN'S WEIGHT TRAINING	
PWS 12424	EXERCISE AND WEIGHT CONTROL	
PWS 12425	NAUTILUS EXERCISES	
PWS 13003	DANCE EXERCISE	
PWS 13010	JUDO-JUJITSU	
PWS 13016	CYCLING	
PWS 13040	CARDIO KICKBOXING	
<b>Additional Requirements (courses do not count in major GPA)</b>		
Kent Core Humanities and Fine Arts (minimum one course from each)		3

Kent Core Additional	3
Minimum Total Credit Hours:	79

- <sup>1</sup> Students who have successfully completed BSCI 11010 may use that course in place of ATTR 25057/EXSC 25057.
- <sup>2</sup> Teacher candidates are only permitted to repeat a field experience course once. Please see Repeating Field Experience Courses in Teacher Education Programs policy for details.

## Licensure Information

Candidates seeking Ohio licensure are required to pass specific assessments in order to apply for licensure. See Ohio Department of Education-Educator Preparation website for more information on assessments specific to licensure type. Taking and passing the licensure tests prior to graduation is encouraged but not required.

Students must apply for State of Ohio Licensure (defined by completion of all licensure program requirements) within 12 months of program completion. After 12 months, applicants must meet State approved program/licensure requirements that are in effect at the time of application. This means that students who apply after the 12 month deadline may have to take additional coursework if the content, methods courses, program requirements, or licensure requirements have changed from the catalog in force.

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## Progression Requirement

Students must meet all professional requirements for admission to advanced study.

To manage enrollment and deliver high-quality programs, the faculty will select the most qualified applicants for admission based upon evaluation of standardized test scores of reading, writing, and mathematics; academic success (overall GPA<sup>1</sup>) at Kent State University; non-academic criteria; and other specific program criteria.

Please be aware that reapplication may be necessary if postponing advanced study coursework or if withdrawn for one year or more.

- <sup>1</sup> Undergraduate students who have not completed a minimum of 12 Kent State University credit hours will be evaluated for advanced study and professional phase based on their high school GPA for new freshmen or transfer GPA for transfer students.

## Graduation Requirements

Minimum Major GPA	Minimum Overall GPA
2.750	2.750

- Students in the Health Physical Education concentration must provide evidence of certification in First Aid, CPR, and minimum equivalence to level 5 competency in Red Cross Swimming.

## Roadmaps

- School Health Education (no concentration)
- Health and Physical Education Concentration



**SCHOOL HEALTH EDUCATION (NO CONCENTRATION)**

This roadmap is a recommended semester-by-semester plan of study for this major. However, courses designated as critical (!) must be completed in the semester listed to ensure a timely graduation.

<b>Semester One</b>		<b>Credits</b>
!	COMM 15000 INTRODUCTION TO HUMAN COMMUNICATION (KADL)	3
!	HED 11590 COMMUNITY HEALTH EDUCATION	3
	UC 10097 DESTINATION KENT STATE: FIRST YEAR EXPERIENCE	1
	Kent Core Requirement	3
	Kent Core Requirement	3
	Kent Core Requirement	3
Credit Hours		16
<b>Semester Two</b>		
Requirement: Successful completion of Praxis Core Reading, Writing and Mathematics		
!	CULT 29535 EDUCATION IN A DEMOCRATIC SOCIETY	3
!	HED 11570 PERSONAL HEALTH	3
!	PHIL 11001 INTRODUCTION TO PHILOSOPHY (DIVG) (KHUM) or PHIL 21001 or INTRODUCTION TO ETHICS (DIVG) (KHUM)	3
!	PSYC 11762 GENERAL PSYCHOLOGY (DIVD) (KSS)	3
	PWS 10035 LIFETIME FITNESS	2
	Kent Core Requirement	3
Credit Hours		17
<b>Semester Three</b>		
Requirement: minimum 2.750 overall GPA by the end of term; minimum 2.750 major GPA		
!	BSCI 10001 HUMAN BIOLOGY (KBS)	3
	HED 21030 INTRODUCTION TO HEALTH EDUCATION	3
!	PSYC 20651 CHILD PSYCHOLOGY (DIVD) (KSS)	3
	Kent Core Requirement	3
	Kent Core Requirement	3
Credit Hours		15
<b>Semester Four</b>		
Requirement: apply online for Advanced Study by the second Friday of the term; 2.750 minimum overall GPA; minimum 2.750 major GPA		
!	EPSY 29525 EDUCATIONAL PSYCHOLOGY	3
	HED 32530 DRUG USE AND MISUSE	3
	HED 32544 HUMAN SEXUALITY	3
	SPED 23000 INTRODUCTION TO EXCEPTIONALITIES (DIVD)	3
	Kent Core Requirement	1
	General Elective	1
Credit Hours		14
<b>Semester Five</b>		
Requirement: minimum 2.750 major GPA; minimum 2.750 overall GPA		
	HED 21050 HEALTH EDUCATION THEORIES	3
!	HED 32542 METHODS AND APPLICATIONS OF HEALTH EDUCATION (WIC)	5
	ETEC 39525 EDUCATIONAL TECHNOLOGY	3
	NUTR 23511 SCIENCE OF HUMAN NUTRITION (KBS)	3
	Health Education (HED) Elective	2
Credit Hours		16

**Semester Six**

Requirement: apply for student teaching; minimum 2.750 major GPA; minimum 2.750 overall GPA

HED 30000	TEACHING HEALTH TO YOUNG LEARNERS	3
HED 34050	PROGRAM PLANNING AND EVALUATION IN HEALTH EDUCATION	3
HED 44543	ADMINISTRATION OF SCHOOL HEALTH PROGRAMS	3
HED 44544	SEXUALITY EDUCATION PROGRAMS	3
HED 44550	DRUG ABUSE AND VIOLENCE EDUCATION PROGRAMS	3
Credit Hours		15

**Semester Seven**

Requirement: minimum 2.750 major GPA; minimum 2.750 overall GPA

CI 47330	READING AND WRITING IN ADOLESCENCE/ADULTHOOD	3
HED 42041	HEALTH COACHING	3
ETEC 47427 or ETEC 47400	TECHNOLOGY AND LEARNING or TRENDS IN EDUCATIONAL TECHNOLOGY	3
Health Education (HED) Electives		6
Credit Hours		15

**Semester Eight**

Requirement: minimum 2.750 major GPA; minimum 2.750 overall GPA

HED 42392	STUDENT TEACHING IN HEALTH EDUCATION (ELR)	9
!	HED 49525 INQUIRY SEMINAR INTO PROFESSIONAL PRACTICE	3
Credit Hours		12
Minimum Total Credit Hours:		120

## Health and Physical Education Concentration

This roadmap is a recommended semester-by-semester plan of study for this major. However, courses designated as critical (!) must be completed in the semester listed to ensure a timely graduation.

Semester One		Credits
!	HED 11570 PERSONAL HEALTH	3
	PESP 15010 INTRODUCTION TO PHYSICAL EDUCATION, FITNESS AND SPORT	3
	PESP 15020 FUNDAMENTAL MOVEMENT, GYMNASTICS AND DANCE	3
	UC 10097 DESTINATION KENT STATE: FIRST YEAR EXPERIENCE	1
	Kent Core Requirement	3
	Kent Core Requirement	3
Credit Hours		16
Semester Two		
Requirement: Successful completion of Praxis Core Reading, Writing and Mathematics		
	COMM 15000 INTRODUCTION TO HUMAN COMMUNICATION (KADL)	3
!	CULT 29535 EDUCATION IN A DEMOCRATIC SOCIETY	3
	PESP 15015 DEVELOPMENT AND ANALYSIS OF NET GAMES	3
	PESP 25026 OVERVIEW OF OUTDOOR PURSUITS AND ADVENTURE EDUCATION	3
!	Physical Activity, Wellness and Sport (PWS) Elective	1
	Kent Core Requirement	3
Credit Hours		16
Semester Three		
	HED 21030 INTRODUCTION TO HEALTH EDUCATION	3
	PESP 15011 DEVELOPMENT AND ANALYSIS OF INVASION GAMES	3
	PESP 15016 DEVELOPMENT AND ANALYSIS OF TARGET AND FIELD GAMES	3
	PESP 25056 ASSESSMENT OF LEARNING IN PHYSICAL EDUCATION AND SPORT	3
	Kent Core Requirement	3
Credit Hours		15
Semester Four		
!	EPSY 29525 EDUCATIONAL PSYCHOLOGY	3
	HED 32530 DRUG USE AND MISUSE	3
	PSYC 11762 GENERAL PSYCHOLOGY (DIVD) (KSS)	3
	Physical Activity, Wellness and Sport (PWS) Electives	1
	Kent Core Requirement	3
	Kent Core Requirement	3
Credit Hours		16
Semester Five		
Requirement: minimum 2.750 overall GPA by the end of term; minimum 2.750 major GPA		
	ATTR 25057 HUMAN ANATOMY AND PHYSIOLOGY I (KBS) or EXSC 25057 or HUMAN ANATOMY AND PHYSIOLOGY I (KBS) (KLAB)	4
	HED 21050 HEALTH EDUCATION THEORIES	3
	PESP 25033 LIFESPAN MOTOR DEVELOPMENT	3
	SPED 23000 INTRODUCTION TO EXCEPTIONALITIES (DIVD)	3
	Kent Core Requirement	3
	Kent Core Requirement	3
Credit Hours		19

### Semester Six

Requirement: apply online for Advanced Study by the second Friday of the term; 2.750 minimum overall GPA; minimum 2.750 major GPA

	HED 30000 TEACHING HEALTH TO YOUNG LEARNERS	3
	HED 32544 HUMAN SEXUALITY	3
	HED 44543 ADMINISTRATION OF SCHOOL HEALTH PROGRAMS	3
	PESP 25025 TEACHING IN PHYSICAL EDUCATION	3
	PESP 35084 MOTOR SKILL ANALYSIS	3
Credit Hours		15

### Semester Seven

Requirement: minimum 2.750 major GPA; minimum 2.750 overall GPA

!	HED 32542 METHODS AND APPLICATIONS OF HEALTH EDUCATION (WIC)	5
	HED 42041 HEALTH COACHING	3
	PESP 35020 FITNESS EDUCATION	3
	SPAD 35065 HISTORY AND PHILOSOPHY OF SPORT AND PHYSICAL ACTIVITY (WIC)	3
Credit Hours		14

### Semester Eight

Requirement: apply for student teaching; minimum 2.750 major GPA; minimum 2.750 overall GPA

	HED 34050 PROGRAM PLANNING AND EVALUATION IN HEALTH EDUCATION	3
	HED 44544 SEXUALITY EDUCATION PROGRAMS	3
	HED 44550 DRUG ABUSE AND VIOLENCE EDUCATION PROGRAMS	3
	PESP 45058 SECONDARY SCHOOL PHYSICAL EDUCATION METHODS	3
	PESP 45059 SECONDARY SCHOOL PHYSICAL EDUCATION CONTENT	3
Credit Hours		15

### Semester Nine

Requirement: minimum 2.750 major GPA; minimum 2.750 overall GPA

	CI 47330 READING AND WRITING IN ADOLESCENCE/ADULTHOOD	3
	NUTR 23511 SCIENCE OF HUMAN NUTRITION (KBS)	3
	PESP 45037 ADAPTED PHYSICAL EDUCATION	3
!	PESP 45051 ELEMENTARY SCHOOL PHYSICAL EDUCATION METHODS	3
!	PESP 45053 ELEMENTARY SCHOOL PHYSICAL EDUCATION CONTENT	3
Credit Hours		15

### Semester Ten

Requirement: minimum 2.750 major GPA; minimum 2.750 overall GPA

	EHHS 49592 STUDENT TEACHING IN HEALTH AND PHYSICAL EDUCATION (ELR)	10
!	HED 49525 INQUIRY SEMINAR INTO PROFESSIONAL PRACTICE	3
!	PESP 49525 INQUIRY INTO PROFESSIONAL PRACTICE IN PHYSICAL EDUCATION	3
Credit Hours		16
Minimum Total Credit Hours:		157

# Speech Language Pathology - M.A.

## College of Education Health and Human Services

School of Health Sciences

100 Nixon Hall

Kent Campus

330-672-2197

www.kent.edu/ehhs/hs

## Description

The Master of Arts degree in Speech Language Pathology educates competent speech-language pathologists to critically evaluate communication disorders and the methods used in the habilitation and rehabilitation of those disorders.

## Fully Offered At:

- Kent Campus

## Accreditation

The M.A. degree in Speech Language Pathology is accredited by the Council on Academic Accreditation in Audiology and Speech-Language Pathology.

## Admission Requirements

- Bachelor's degree from an accredited college or university<sup>1</sup> for unconditional admission
- Minimum 3.000 undergraduate GPA on a 4.000 point scale for unconditional admission
- Official transcript(s)
- GRE scores
- Goal statement
- Three letters of recommendation
- English language proficiency - all international students must provide proof of English language proficiency (unless they meet specific exceptions) by earning one of the following:
  - Minimum 587 TOEFL PBT score (paper-based version)
  - Minimum 94 TOEFL IBT score (Internet-based version)
  - Minimum 82 MELAB score
  - Minimum 7.0 IELTS score
  - Minimum 65 PTE score
  - Minimum 120 Duolingo English Test score

For more information about graduate admissions, please visit the Graduate Studies admission website. For more information on international admission, visit the Office of Global Education's admission website.

<sup>1</sup> The bachelor's degree may not necessarily be in the areas of speech-language pathology and/or audiology. However, students wishing to enter the master's degree who have neither completed an undergraduate degree in speech-language pathology and audiology, nor possess the necessary prerequisite coursework, are required to complete that coursework.

## Program Learning Outcomes

Graduates of this program will be able to:

1. Effectively communicate knowledge and interact with diverse populations (age, culture, disability).
2. Collect, analyze, synthesize and apply research and data regarding the nature, prevention, diagnosis and treatment of communication disorders throughout the lifespan and across cultures.
3. Engage in the development and implementation of research-based and ethical prevention, assessment, diagnostic and treatment plans for individuals with a variety of communication disorders throughout the lifespan.

## Program Requirements

### major requirements

Code	Title	Credit Hours
<b>Major Requirements</b>		
SPA 64301	APHASIA	3
SPA 64302	LANGUAGE ASSESSMENT AND INTERVENTION IN EARLY CHILDHOOD	3
SPA 64303	DISORDERS OF ARTICULATION AND PHONOLOGY	3
SPA 64304	ACQUIRED COGNITIVE COMMUNICATIVE IMPAIRMENTS	3
SPA 64305	FLUENCY DISORDERS	3
SPA 64306	VOICE DISORDERS	2
SPA 64308	LANGUAGE ASSESSMENT AND INTERVENTION WITH SCHOOL-AGE POPULATIONS	3
SPA 64311	AUTISM SPECTRUM DISORDERS	2
SPA 64312	MOTOR SPEECH DISORDERS IN CHILDREN AND ADULTS	3
SPA 64354	PEDIATRIC MEDICAL ISSUES	2
SPA 64356	ADULT DYSPHAGIA	3
SPA 64500	NORMAL LANGUAGE PROCESSES	3
SPA 64504	ADVANCED SPEECH AND VOICE SCIENCE	3
SPA 64600	RESEARCH METHODS IN SPEECH-LANGUAGE PATHOLOGY AND AUDIOLOGY	3
SPA 64891	SEMINAR:COMMUNICATION MODALITIES AND ASSISTIVE TECHNOLOGY	3
Minimum Total Credit Hours:		42

## Graduation Requirements

- Minimum 3.000 overall GPA

## Clinical Settings

For any clinical practicum (on campus or off campus) in speech pathology or audiology that requires candidates to be placed within the on-campus speech and hearing clinics, school or agency setting, the college requires candidates to complete Bureau of Criminal Investigation and Identification (BCII) and Federal Bureau of Investigation (FBI) background check and submit the results to authorized personnel at their assigned clinic/school/agency before the beginning of their placement or the first day of the semester in which the practicum will take place. Authorized school/agency personnel will determine whether a candidate may participate in practicum in the off-campus setting. The BCII and FBI

background checks are good for one year and the candidates will need to complete one each year that they are in graduate school.

Electronic fingerprinting is available for BCII and FBI in 221 White Hall and should be completed one month prior to clinical practicum. Candidates are responsible for fees incurred for this requirement. For more information on this policy contact the Clinical Coordinators for the Speech and Hearing Clinics. Visit the Ohio Department of Education website for more information about background check requirements for those wishing to hold pupil personnel licenses in Ohio. Contact the Office of Professional Conduct at the Ohio Department of Education for specific information about the results of the background check.

## Licensure Information

Candidates seeking Speech-Language Pathologist licensure are required to pass Praxis II test Speech-Language Pathology and minimum of 400 clock hours of supervised clinical experience in the practice of speech language pathology. Additional clinical coursework is required for Ohio Board of Speech Pathology License and optional ASHA certification.

## Speech Language Pathology - Ph.D.

College of Education Health and Human Services

School of Health Sciences

100 Nixon Hall

Kent Campus

330-672-2197

www.kent.edu/ehhs/hs

## Description

The Ph.D. degree in Speech Language Pathology provides the student with a strong theoretical background and research competencies in communication processes and/or disorders and is ideal for those interested in academic and research careers in communications sciences.

## Fully Offered At:

- Kent Campus

## Accreditation

Council on Academic Accreditation in Audiology and Speech-Language Pathology

## Admission Requirements

- Master's degree from an accredited college or university for unconditional admission for unconditional admission
- Bachelor's degree (not necessarily in areas of speech-language pathology and audiology) for unconditional admission
- Minimum 3.000 undergraduate GPA on a 4.000 point scale (minimum 3.500 GPA is recommended) for unconditional admission
- Official transcript(s)
- GRE scores (score of 50th percentile is recommended)
- Goal statement
- Three letters of recommendation
- English language proficiency - all international students must provide proof of English language proficiency (unless they meet specific exceptions) by earning one of the following:

- Minimum 587 TOEFL PBT score (paper-based version)
- Minimum 94 TOEFL IBT score (Internet-based version)
- Minimum 82 MELAB score
- Minimum 7.0 IELTS score
- Minimum 65 PTE score
- Minimum 120 Duolingo English Test score

For more information about graduate admissions, please visit the Graduate Studies admission website. For more information on international admission, visit the Office of Global Education's admission website.

## Program Learning Outcomes

Graduates of this program will be able to:

1. Develop, implement and evaluate a line of individual and collaborative research.
2. Teach within a clinical and/or didactic context.

## Program Requirements

### Major Requirements

Code	Title	Credit Hours
<b>Major Requirements</b>		
	Major Area of Study <sup>1</sup>	24
	Two Cognate Areas of Study <sup>2</sup>	15
	Statistics and Research Design Coursework	6
SPA 84199	DISSERTATION I <sup>3</sup>	30
Minimum Total Credit Hours:		75

<sup>1</sup> This collection of coursework relates to the students' main areas of interest. It typically consists of lecture classes, seminars and independent studies. Included within the 24 credit hours are 4 credit hours of colloquium and 3 credit hours of research design. The colloquium provides information about areas that are of common interest to doctoral students regardless of specialties. Included are such topics as grant and manuscript writing, clinical and departmental administration, supervision and professional presentations.

<sup>2</sup> Courses that complement the students' interests in the cognates may be taken in other program areas (such as psychology, business, biology, counseling and special education); within speech pathology and audiology; or from an affiliated medical school.

<sup>3</sup> Upon admission to candidacy, each doctoral candidate must register for SPA 84199. It is expected that a doctoral candidate will continuously register for Dissertation I for a total of 30 credit hours, and thereafter SPA 84299, each semester until all requirements for the degree have been met.

## Comprehensive Examination

Students who have not completed a master's thesis are required to complete and defend a research project prior to taking their comprehensive examination. Students must maintain an overall grade point average of at least 3.000 throughout the program. After completion of doctoral coursework, students take the candidacy examinations, consisting of both written and oral portions. The written portion entails 16-20 hours of writing on material studies within the major and minor

concentrations. The oral portion occurs two to four weeks later and can cover information on any topic in addition to those covered on the written portion. Successful completion of these examinations culminates in 'admission to candidacy' and allows the candidate to begin work on the dissertation.

Students may be admitted to the Ph.D. program on a part time basis; however, all students must meet a residency requirement with two consecutive semesters of full-time enrollment prior to acceptance into candidacy.

## Clinical Setting

For any clinical practicum (on campus or off campus) in speech pathology or audiology that requires candidates to be placed within the on-campus speech and hearing clinics, school or agency setting, the SPA program requires candidates to complete Bureau of Criminal Investigation and Identification (BCII) and Federal Bureau of Investigation (FBI) background check and submit the results to authorized personnel at their assigned clinic/school/agency before the beginning of their placement or the first day of the semester in which the practicum will take place. Authorized school/agency personnel will determine whether a candidate may participate in practicum in the off-campus setting. The BCII and FBI background checks are good for one year and the candidates will need to complete one each year that they are in graduate school.

Electronic fingerprinting is available for BCII and FBI in 221 White Hall and should be completed one month prior to clinical practicum. Candidates are responsible for fees incurred for this requirement. For more information on this policy contact the Clinical Coordinators for the Speech and Hearing Clinics. Visit the Ohio Department of Education website for more information about background check requirements for those wishing to hold pupil personnel licenses in Ohio. Contact the Office of Professional Conduct at the Ohio Department of Education for specific information about the results of the background check.

## Licensure Information

Candidates seeking Speech-Language Pathologist licensure are required to pass Praxis II test Speech-Language Pathology and minimum of 400 clock hours of supervised clinical experience in the practice of speech language pathology.

# Speech Pathology and Audiology - B.S.

## College of Education Health and Human Services

School of Health Sciences

100 Nixon Hall

Kent Campus

330-672-2197

[www.kent.edu/ehhs/hs](http://www.kent.edu/ehhs/hs)

## Description

The Bachelor of Science degree in Speech Pathology and Audiology is a pre-professional program focusing on the basic sciences of human communication, as well as the evaluation and treatment of communication disorders. This program provides a firm foundation for continuing to the master's degree in speech-language pathology or the doctorate in audiology. The curriculum integrates a sequence

of coursework designed to provide a strong liberal arts background and an understanding of normal and disordered aspects of the human communication process. Specific coursework includes anatomy and physiology of the speech and hearing mechanisms, hearing and speech science, neurology, phonetics, normal speech and language development, speech and language disorders, audiometry, and aural rehabilitation. Speech-language pathologists are required to hold a master's degree, while audiologists hold a doctorate in audiology. Both are employed in a variety of settings, including rehabilitation centers, hospitals, schools, community clinics, private practice, research laboratories and colleges and universities.

## Fully Offered At:

- Kent Campus

## Admission Requirements

Admission to this major is selective. A minimum 3.000 GPA is required to be admitted to the major. Students who do not meet the GPA requirement at the time of admission for this major will be admitted to the EHHS General non-degree program until which time they have established a Kent State GPA of 3.000. They may then submit a change of program to declare this major.

**Current Kent State and Transfer Students:** Active Kent State students who wish to change their major must have attempted a minimum 12 credit hours at Kent State and meet all admission criteria listed above to be admitted. Students who have not attempted 12 credit hours at Kent State will be evaluated for admission based on their high school GPA for new students or transfer GPA for transfer students. Transfer students who have not attempted 12 credit hours of college-level coursework at Kent State and/or other institutions will be evaluated based on both their high school GPA and college GPA.

### Admission to the combined bachelor's/master's degree program:

Minimum 3.000 GPA (after 90 earned credit hours), GRE scores, three letters of recommendation.

### English Language Proficiency Requirements for International Students:

All international students must provide proof of English language proficiency (unless they meet specific exceptions) by earning a minimum 525 TOEFL score (71 on the Internet-based version), minimum 75 MELAB score, minimum 6.0 IELTS score or minimum 48 PTE Academic score, or by completing the ELS level 112 Intensive Program. For more information on international admission, visit the Office of Global Education's admission website.

## Program Learning Outcomes

Graduates of this program will be able to:

1. Demonstrate knowledge of the nature of speech, language and hearing processes and disorders in children and adults.
2. Demonstrate the skills necessary to be successful speech-language pathologists, audiologists, or other health and human service professionals.
3. Utilize the knowledge and skills acquired during their undergraduate SPA program of study to gain entry into graduate programs in Speech Pathology, Audiology, and/or related fields, or obtain positions in health and human services related professions.



## University Requirements

All students in a bachelor's degree program at Kent State University must complete the following university requirements for graduation.

**NOTE:** University requirements may be fulfilled in this program by specific course requirements. Please see Program Requirements for details.

Destination Kent State: First Year Experience	1
Course is not required for students with 25 transfer credits, excluding College Credit Plus, or age 21+ at time of admission.	
Diversity Domestic/Global (DIVD/DIVG)	2 courses
Students must successfully complete one domestic and one global course, of which one must be from the Kent Core.	
Experiential Learning Requirement (ELR)	varies
Students must successfully complete one course or approved experience.	
Kent Core (see table below)	36-37
Writing-Intensive Course (WIC)	1 course
Students must earn a minimum C grade in the course.	
Upper-Division Requirement	39 (or 42)
Students must successfully complete 39 upper-division (numbered 30000 to 49999) credit hours to graduate. Students in a B.A. and/or B.S. degree in the College of Arts and Sciences must complete 42 upper-division credit hours.	
Total Credit Hour Requirement	120
Some bachelor's degrees require students to complete more than 120 credit hours.	

## Kent Core Requirements

Kent Core Composition (KCOMP)	6
Kent Core Mathematics and Critical Reasoning (KMCR)	3
Kent Core Humanities and Fine Arts (KHUM/KFA) (min one course each)	9
Kent Core Social Sciences (KSS) (must be from two disciplines)	6
Kent Core Basic Sciences (KBS/KLAB) (must include one laboratory)	6-7
Kent Core Additional (KADL)	6
<b>Total Credit Hours:</b>	<b>36-37</b>

## Program Requirements

### Major Requirements

Code	Title	Credit Hours
<b>Major Requirements (courses count in major GPA)</b>		
ENG 31003	LINGUISTICS	3
MATH 10041	INTRODUCTORY STATISTICS (KMCR)	3-4
or PSYC 21621	QUANTITATIVE METHODS IN PSYCHOLOGY I	
PSYC 41043	BASIC LEARNING PROCESSES	3
SPA 10002	INTRODUCTION TO COMMUNICATION DISORDERS AND DIFFERENCES	3
SPA 33101	HEARING AND SPEECH SCIENCE	3
SPA 34102	APPLIED PHONETICS	3
SPA 34103	ANATOMY AND PHYSIOLOGY OF SPEECH AND HEARING	3
SPA 34104	SPEECH AND LANGUAGE ACQUISITION	3
SPA 34106	ARTICULATORY AND PHONOLOGICAL DISORDERS	3

SPA 34107	LANGUAGE DISORDERS IN CHILDREN AND ADOLESCENTS	3
SPA 43402	AUDIOMETRY	3
SPA 43403	CLINICAL PREPARATION IN AUDIOLOGY (ELR)	2
SPA 43404	AURAL REHABILITATION	3
SPA 44111	NEURAL PROCESSES	3
SPA 44112	AGE-RELATED CHANGES IN COMMUNICATION	3
SPA 44310	CLINICAL PROCEDURES IN SPEECH PATHOLOGY	3
SPA 44311	CLINICAL PREPARATION IN SPEECH-LANGUAGE PATHOLOGY (ELR) (WIC) <sup>1</sup>	2

### Additional Requirements (courses do not count in major GPA)

BSCI 10001	HUMAN BIOLOGY (KBS)	3
PSYC 11762	GENERAL PSYCHOLOGY (DIVD) (KSS)	3
PSYC 20651	CHILD PSYCHOLOGY (DIVD) (KSS)	3
UC 10097	DESTINATION KENT STATE: FIRST YEAR EXPERIENCE	1
Chemistry (CHEM) or Physics (PHY) Course from Kent Core (must include a laboratory from any Kent Core Basic Sciences discipline) <sup>3</sup>		3
Kent Core Composition		6
Kent Core Mathematics and Critical Reasoning		3
Kent Core Humanities or Fine Arts (minimum one course from each)		9
Kent Core Social Sciences (must be from two disciplines)		3
Kent Core Additional		3
General Electives (total credit hours depends on earning 120 credit hours, including 39 upper-division credit hours) <sup>2</sup>		34
<b>Minimum Total Credit Hours:</b>		<b>120</b>

<sup>1</sup> A minimum C grade must be earned to fulfill writing-intensive requirement.

<sup>2</sup> Maximum 12 credit hours may be used toward the major from courses in the M.A. degree for students admitted into the combined bachelor's/master's degree program.

<sup>3</sup> With the exception of PHY 11030, which will not fulfill SPA science requirements.

## Progression Requirements

- Minimum 3.000 overall GPA<sup>1</sup> (after 60 credit hours) is required to be admitted into the professional phase of the major.
- Students will not be able to register for professional phase courses until they meet the required GPA<sup>1</sup>. Professional phase are all SPA courses required in the major with the exception of SPA 10002, SPA 34102, SPA 34103, SPA 34104, SPA 34107 and SPA 44111.

<sup>1</sup> Undergraduate students who have not completed a minimum of 12 Kent State University credit hours will be evaluated for advanced study and professional phase based on their high school GPA for new freshmen or transfer GPA for transfer students.

## Graduation Requirements

Minimum Major GPA	Minimum Overall GPA
2.250	2.000

## Roadmap

This roadmap is a recommended semester-by-semester plan of study for this major. However, courses designated as critical (!) must be completed in the semester listed to ensure a timely graduation.

Semester One		Credits
BSCI 10001	HUMAN BIOLOGY (KBS)	3
UC 10097	DESTINATION KENT STATE: FIRST YEAR EXPERIENCE	1
Kent Core Requirement		3
Kent Core Requirement		3
Kent Core Requirement		3
Kent Core Requirement		3
Credit Hours		16
Semester Two		
! PSYC 11762	GENERAL PSYCHOLOGY (DIVD) (KSS)	3
SPA 10002	INTRODUCTION TO COMMUNICATION DISORDERS AND DIFFERENCES	3
Kent Core Requirement		3
Kent Core Requirement		3
Kent Core Requirement		3
Credit Hours		15
Semester Three		
PSYC 20651	CHILD PSYCHOLOGY (DIVD) (KSS)	3
! SPA 34102	APPLIED PHONETICS	3
SPA 34104	SPEECH AND LANGUAGE ACQUISITION	3
Kent Core Requirement		3
General Electives		3
Credit Hours		15
Semester Four		
ENG 31003	LINGUISTICS	3
MATH 10041	INTRODUCTORY STATISTICS (KMCR)	3-4
or	or QUANTITATIVE METHODS IN PSYCHOLOGY	
PSYC 21621	I	
SPA 34103	ANATOMY AND PHYSIOLOGY OF SPEECH AND HEARING	3
SPA 34107	LANGUAGE DISORDERS IN CHILDREN AND ADOLESCENTS	3
Chemistry (CHEM) or Physics (PHY) Course from Kent Core (must include a laboratory from any Kent Core Basic Sciences discipline)		3-4
Credit Hours		15
Semester Five		
Minimum 3.000 overall GPA to be admitted into the professional phase of the major; apply after 60 credit hours are completed or in progress.		
PSYC 41043	BASIC LEARNING PROCESSES	3
! SPA 33101	HEARING AND SPEECH SCIENCE	3
SPA 44111	NEURAL PROCESSES	3
General Electives		6
Credit Hours		15
Semester Six		
! SPA 34106	ARTICULATORY AND PHONOLOGICAL DISORDERS	3
! SPA 43402	AUDIOMETRY	3
! SPA 43403	CLINICAL PREPARATION IN AUDIOLOGY (ELR)	2
! SPA 44112	AGE-RELATED CHANGES IN COMMUNICATION	3
General Electives		4
Credit Hours		15

### Semester Seven

! SPA 43404	AURAL REHABILITATION	3
! SPA 44310	CLINICAL PROCEDURES IN SPEECH PATHOLOGY	3
! SPA 44311	CLINICAL PREPARATION IN SPEECH-LANGUAGE PATHOLOGY (ELR) (WIC)	2

General Elective	7
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Credit Hours	15
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### Semester Eight

General Electives	14
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Credit Hours	14
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Minimum Total Credit Hours:	120
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## Sports Medicine - B.S.

### College of Education Health and Human Services

School of Health Sciences

100 Nixson Hall

Kent Campus

330-672-2197

[www.kent.edu/ehhs/hs](http://www.kent.edu/ehhs/hs)

## Description

The B.S. degree in Sports Medicine will focus on the knowledge and skills that are required for sports medicine and athletic training professionals with specific coursework in anatomy, physiology, kinesiology, biomechanics, chemistry, physics, basics of sports medicine, strength and conditioning, first aid, pathologies of injury and illness, pathologies of general medical conditions, pharmacology, therapeutic intervention in health care (including modality application and rehabilitation), healthcare organization and management, emergency medical skills, documentation and record keeping in health care and psychology.

Students completing this program will gain experience in direct patient care and patient care skills, preparing them for their specific career path. Direct patient care skills taught and evaluated include, but are not limited to, first aid and CPR, assessment of biomechanics, gait analysis, goniometry, manual muscle testing, postural assessment, palpation, auscultation, emergency management, and obtaining medical and family histories through patient encounters.

### FULLY OFFERED AT:

- Kent Campus

## Admission Requirements

The university affirmatively strives to provide educational opportunities and access to students with varied backgrounds, those with special talents and adult students who graduated from high school three or more years ago.

**Freshman Students on the Kent Campus:** The freshman admission policy on the Kent Campus is selective. Admission decisions are based upon the following: cumulative grade point average, ACT and/or SAT scores, strength of high school college preparatory curriculum and grade trends. The Admissions Office at the Kent Campus may defer the admission of students who do not meet admissions criteria but who demonstrate areas of promise for successful college study. Deferred applicants may begin their college coursework at one of seven regional campuses of Kent State University. For more information on admissions,

including additional requirements for some academic programs, visit the admissions website for new freshmen.

**Freshman Students on the Regional Campuses:** Kent State campuses at Ashtabula, East Liverpool, Geauga, Salem, Stark, Trumbull and Tuscarawas, as well as the Regional Academic Center in Twinsburg, have open enrollment admission for students who hold a high school diploma, GED or equivalent.

**English Language Proficiency Requirements for International Students:** All international students must provide proof of English language proficiency (unless they meet specific exceptions) by earning a minimum 525 TOEFL score (71 on the Internet-based version), minimum 75 MELAB score, minimum 6.0 IELTS score or minimum 48 PTE score, or by completing the ESL level 112 Intensive Program. For more information on international admission, visit the Office of Global Education's admission website.

**Transfer, Transitioning and Former Students:** For more information about admission criteria for transfer, transitioning and former students, please visit the admissions website.

## Program Learning Outcomes

Graduates of this program will be able to:

1. Develop foundational knowledge for admission to advanced studies in graduate athletic training programs or employment in associated sports medicine fields
2. Demonstrate sound decision-making through analysis and application in the prevention, management, and resolution of health-related issues associated with sports medicine issues
3. Engage in comprehensive sports medicine care while integrating disciplined-specific, synthesized, creative, respectful and ethical elements
4. Develop confidence and competence to successfully transition into practice and/or higher education programs in sports medicine

## University Requirements

All students in a bachelor's degree program at Kent State University must complete the following university requirements for graduation.

**NOTE:** University requirements may be fulfilled in this program by specific course requirements. Please see Program Requirements for details.

Destination Kent State: First Year Experience	1
Course is not required for students with 25 transfer credits, excluding College Credit Plus, or age 21+ at time of admission.	
Diversity Domestic/Global (DIVD/DIVG)	2 courses
Students must successfully complete one domestic and one global course, of which one must be from the Kent Core.	
Experiential Learning Requirement (ELR)	varies
Students must successfully complete one course or approved experience.	
Kent Core (see table below)	36-37
Writing-Intensive Course (WIC)	1 course
Students must earn a minimum C grade in the course.	
Upper-Division Requirement	39 (or 42)

Students must successfully complete 39 upper-division (numbered 30000 to 49999) credit hours to graduate. Students in a B.A. and/or B.S. degree in the College of Arts and Sciences must complete 42 upper-division credit hours.

Total Credit Hour Requirement	120
Some bachelor's degrees require students to complete more than 120 credit hours.	

## Kent Core Requirements

Kent Core Composition (KCMP)	6
Kent Core Mathematics and Critical Reasoning (KMCR)	3
Kent Core Humanities and Fine Arts (KHUM/KFA) (min one course each)	9
Kent Core Social Sciences (KSS) (must be from two disciplines)	6
Kent Core Basic Sciences (KBS/KLAB) (must include one laboratory)	6-7
Kent Core Additional (KADL)	6
<b>Total Credit Hours:</b>	<b>36-37</b>

## Program Requirements

### MAJOR REQUIREMENTS

Code	Title	Credit Hours
<b>Major Requirements (courses count in major GPA)</b>		
ATTR 15002	INTRODUCTION TO SPORTS MEDICINE CAREERS	2
ATTR 15012	DOCUMENTATION IN HEALTH CARE	2
ATTR 20001	SOCIOCULTURAL ASPECTS OF HEALTH CARE	3
ATTR 25036	RESPONDING TO EMERGENCIES	3
ATTR 25037	PHYSICAL ASSESSMENT TECHNIQUES AND KINESIOLOGY FOR THE LOWER EXTREMITY AND SPINE	3
ATTR 25038	PHYSICAL ASSESSMENT TECHNIQUES FOR THE UPPER EXTREMITY, HEAD AND NECK	3
ATTR 25057	HUMAN ANATOMY AND PHYSIOLOGY I (KBS) (KLAB)	4
ATTR 25058	HUMAN ANATOMY AND PHYSIOLOGY II (KBS) (KLAB)	4
ATTR 35037	ADVANCED PHYSICAL ASSESSMENT TECHNIQUES	3
ATTR 35040	STRENGTH AND CONDITIONING	2
ATTR 35050	NEUROLOGICAL PROCESS FOR THE HEALTHCARE PROFESSIONAL	3
ATTR 35054	BIOMECHANICS	3
ATTR 35062	EVIDENCE-BASED RESEARCH IN HEALTH CARE	3
ATTR 43018	ETHICAL LEADERSHIP FOR HEALTH CARE (WIC)	3
ATTR 45019	PROFESSIONAL RESPONSIBILITY AND MANAGEMENT IN HEALTH CARE	3
ATTR 45040	PATHOLOGY AND PHARMACOLOGY FOR ALLIED HEALTH CARE PROVIDERS	3
ATTR 45041	ADVANCED THERAPEUTIC INTERVENTIONS	3
ATTR 45492	INTER-PROFESSIONAL INTERNSHIP IN SPORTS MEDICINE (ELR)	3
<b>Additional Requirements (courses do not count in major GPA)</b>		
BSCI 10120	BIOLOGICAL FOUNDATIONS (KBS) (KLAB)	4
BSCI 30130	HUMAN PHYSIOLOGY	3
BSCI 30140	CELL BIOLOGY	4
CHEM 10060	GENERAL CHEMISTRY I (KBS)	4

CHEM 10061	GENERAL CHEMISTRY II (KBS)	4
CHEM 10062	GENERAL CHEMISTRY I LABORATORY (KBS) (KLAB)	1
CHEM 10063	GENERAL CHEMISTRY II LABORATORY (KBS) (KLAB)	1
EXSC 35068	STATISTICS FOR EXERCISE SCIENTIST	3
EXSC 45080	PHYSIOLOGY OF EXERCISE (WIC)	3
NUTR 23511	SCIENCE OF HUMAN NUTRITION (KBS)	3
MATH 11010	ALGEBRA FOR CALCULUS (KMCR)	3
MATH 11022	TRIGONOMETRY (KMCR)	3
PHY 13001	GENERAL COLLEGE PHYSICS I (KBS)	4
PHY 13021	GENERAL COLLEGE PHYSICS LABORATORY I (KBS) (KLAB)	1
PSYC 11762	GENERAL PSYCHOLOGY (DIVD) (KSS)	3
UC 10097	DESTINATION KENT STATE: FIRST YEAR EXPERIENCE	1
Kent Core Composition		6
Kent Core Humanities and Fine Arts (minimum one course from each)		9
Kent Core Social Sciences (must be from two disciplines)		3
General Electives (total credit hours depend on earning 120 credit hours, including 39 upper-division credit hours)		4
Minimum Total Credit Hours:		120

## GRADUATION REQUIREMENTS

Minimum Major GPA	Minimum Overall GPA
2.500	2.500

## Roadmap

This roadmap is a recommended semester-by-semester plan of study for this major. However, courses designated as critical (!) must be completed in the semester listed to ensure a timely graduation.

Semester One		Credits
ATTR 15002	INTRODUCTION TO SPORTS MEDICINE CAREERS	2
ATTR 15012	DOCUMENTATION IN HEALTH CARE	2
BSCI 10120	BIOLOGICAL FOUNDATIONS (KBS) (KLAB)	4
MATH 11010	ALGEBRA FOR CALCULUS (KMCR)	3
PSYC 11762	GENERAL PSYCHOLOGY (DIVD) (KSS)	3
UC 10097	DESTINATION KENT STATE: FIRST YEAR EXPERIENCE	1
Credit Hours		15
<b>Semester Two</b>		
ATTR 25036	RESPONDING TO EMERGENCIES	3
CHEM 10060	GENERAL CHEMISTRY I (KBS)	4
CHEM 10062	GENERAL CHEMISTRY I LABORATORY (KBS) (KLAB)	1
MATH 11022	TRIGONOMETRY (KMCR)	3
NUTR 23511	SCIENCE OF HUMAN NUTRITION (KBS)	3
Kent Core Requirement		3
Credit Hours		17
<b>Semester Three</b>		
ATTR 20001	SOCIOCULTURAL ASPECTS OF HEALTH CARE	3
ATTR 25057	HUMAN ANATOMY AND PHYSIOLOGY I (KBS) (KLAB)	4
CHEM 10061	GENERAL CHEMISTRY II (KBS)	4
CHEM 10063	GENERAL CHEMISTRY II LABORATORY (KBS) (KLAB)	1

Kent Core Requirement		3
Credit Hours		15
<b>Semester Four</b>		
ATTR 25058	HUMAN ANATOMY AND PHYSIOLOGY II (KBS) (KLAB)	4
ATTR 35040	STRENGTH AND CONDITIONING	2
PHY 13001	GENERAL COLLEGE PHYSICS I (KBS)	4
PHY 13021	GENERAL COLLEGE PHYSICS LABORATORY I (KBS) (KLAB)	1
Kent Core Requirement		3
Credit Hours		14
<b>Semester Five</b>		
ATTR 25037	PHYSICAL ASSESSMENT TECHNIQUES AND KINESIOLOGY FOR THE LOWER EXTREMITY AND SPINE	3
ATTR 35062	EVIDENCE-BASED RESEARCH IN HEALTH CARE	3
BSCI 30140	CELL BIOLOGY	4
EXSC 35068	STATISTICS FOR EXERCISE SCIENTIST	3
Kent Core Requirement		3
Credit Hours		16
<b>Semester Six</b>		
ATTR 25038	PHYSICAL ASSESSMENT TECHNIQUES FOR THE UPPER EXTREMITY, HEAD AND NECK	3
ATTR 35037	ADVANCED PHYSICAL ASSESSMENT TECHNIQUES	3
ATTR 35050	NEUROLOGICAL PROCESS FOR THE HEALTHCARE PROFESSIONAL	3
Kent Core Requirement		3
General Elective		3
Credit Hours		15
<b>Semester Seven</b>		
ATTR 35054	BIOMECHANICS	3
ATTR 45019	PROFESSIONAL RESPONSIBILITY AND MANAGEMENT IN HEALTH CARE	3
BSCI 30130	HUMAN PHYSIOLOGY	3
Kent Core Requirement		3
General Elective		1
Credit Hours		13
<b>Semester Eight</b>		
ATTR 43018	ETHICAL LEADERSHIP FOR HEALTH CARE (WIC)	3
ATTR 45040	PATHOLOGY AND PHARMACOLOGY FOR ALLIED HEALTH CARE PROVIDERS	3
ATTR 45041	ADVANCED THERAPEUTIC INTERVENTIONS	3
ATTR 45492	INTER-PROFESSIONAL INTERNSHIP IN SPORTS MEDICINE (ELR)	3
EXSC 45080	PHYSIOLOGY OF EXERCISE (WIC)	3
Credit Hours		15
Minimum Total Credit Hours:		120

## Sports Medicine - Minor

College of Education Health and Human Services  
 School of Health Sciences  
 100 Nixson Hall  
 Kent Campus  
 330-672-2197  
[www.kent.edu/ehhs/hs](http://www.kent.edu/ehhs/hs)

## Description

The Sports Medicine minor provides students the opportunity to complete extensive study in the areas of anatomy, physiology, assessment, rehabilitation and pathology to support many allied health care professions such as physical therapy, exercise science, nursing, occupational therapy and integrated health sciences.

### Fully Offered At:

- Kent Campus

## Admission Requirements

Admission to a minor is open to students declared in a bachelor's degree, the A.A.B. or A.A.S. degree or the A.T.S. degree (not Individualized Program major). Students declared only in the A.A. or A.S. degree or the A.T.S. degree in Individualized Program may not declare a minor. Students may not pursue a minor and a major in the same discipline.

To declare this minor, students must have attempted a minimum 12 credit hours at Kent State and earned a minimum 2.000 overall Kent State GPA. Students who have not attempted 12 credit hours at Kent State will be evaluated for admission based on their high school GPA for new students or transfer GPA for transfer students. Transfer students who have not attempted 12 credit hours of college-level coursework at Kent State and/or other institutions will be evaluated based on both their high school GPA and college GPA.

## Minor Requirements

Code	Title	Credit Hours
<b>Major Requirements</b>		
ATTR 25036	RESPONDING TO EMERGENCIES	3
ATTR 25037	PHYSICAL ASSESSMENT TECHNIQUES AND KINESIOLOGY FOR THE LOWER EXTREMITY AND SPINE	3
ATTR 25038	PHYSICAL ASSESSMENT TECHNIQUES FOR THE UPPER EXTREMITY, HEAD AND NECK	3
ATTR 25057	HUMAN ANATOMY AND PHYSIOLOGY I (KBS) (KLAB) <sup>1</sup>	4
ATTR 25058	HUMAN ANATOMY AND PHYSIOLOGY II (KBS) (KLAB) <sup>1</sup>	4
ATTR 35040	STRENGTH AND CONDITIONING	2
ATTR 43018	ETHICAL LEADERSHIP FOR HEALTH CARE (WIC)	3
ATTR 45039	THERAPEUTIC REHABILITATION	3
ATTR 45040	PATHOLOGY AND PHARMACOLOGY FOR ALLIED HEALTH CARE PROVIDERS	3
EXSC 35075	EXERCISE PROGRAMMING	3
EXSC 45080	PHYSIOLOGY OF EXERCISE (WIC)	3
Minimum Total Credit Hours:		34

<sup>1</sup> Students who have successfully completed either BSCI 11010/BSCI 11020, BSCI 21010/BSCI 21020, or EXSC 25057/EXSC 25058 may use those courses in place of ATTR 25057 or ATTR 25058.

## Graduation Requirements

Minimum Minor GPA	Minimum Overall GPA
2.250	2.000

- Minimum 6 credit hours in the minor must be upper-division coursework (30000 and 40000 level).
- Minimum 6 credit hours in the minor must be outside of the course requirements for any major or other minor the student is pursuing.
- Minimum 50 percent of the total credit hours for the minor must be taken at Kent State (in residence).

## School of Lifespan Development and Educational Sciences

### College of Education Health and Human Services

School of Lifespan Development and Educational Sciences  
405 White Hall  
Kent Campus  
330-672-2294  
[www.kent.edu/ehhs/lides](http://www.kent.edu/ehhs/lides)

## Undergraduate Programs

- American Sign Language/English Interpreting - B.S.
- Career and Community Studies (Non-degree)
- Career and Community Studies-College Preparation (Non-degree)
- Career and Community Studies-Employment Readiness (Non-degree)
- Human Development and Family Studies - B.S.
- Long-Term Care Administration - B.S.
- Special Education - B.S.E.

## Minors

- Autism Spectrum Disorders
- Early Intervention
- Gerontology
- Human Development and Family Studies
- Mild to Moderate Special Education
- Nonprofit Studies

## Graduate Programs

- Clinical Mental Health Counseling - M.Ed.
- Clinical Rehabilitation Counseling - M.Ed.
- Counseling - Ed.S.
- Counselor Education and Supervision - Ph.D.
- Educational Psychology - M.A.
- Educational Psychology - M.Ed.
- Educational Psychology - Ph.D.
- Human Development and Family Studies - M.A.
- Rehabilitation Counseling - M.Ed.
- School Counseling - M.Ed.
- School Psychology - Ed.S.
- School Psychology - M.Ed.
- School Psychology - Ph.D.
- Special Education - Ed.S.



- Special Education - M.Ed.
- Special Education - Ph.D.

## Certificates

### Undergraduate Certificates

- Addictions Counseling
- Deaf Education Multiple Disabilities

### Graduate Certificates

- Addictions Counseling
- Autism Spectrum Disorders
- Behavioral Intervention Specialist
- Deaf Education Multiple Disabilities
- Early Childhood Deaf Education
- Early Intervention
- Gerontology
- Nursing Home Administration

## Licensure/Endorsement Programs - Non-Degree Graduate

- American Sign Language/English Interpreting Licensure Preparation
- Deaf Education Licensure Preparation
- Early Childhood Intervention Specialist Licensure Preparation
- Mild/Moderate Educational Needs Licensure Preparation
- Moderate/Intensive Educational Needs Licensure Preparation
- Special Education Deaf Education Additional Licensure Preparation
- Special Education Deaf Education Initial Licensure Preparation
- Special Education Early Childhood (PK-5) Additional Licensure Preparation
- Special Education Early Childhood (PK-5) Initial Licensure Preparation
- Special Education Mild/Moderate Needs Additional Licensure Preparation
- Special Education Mild/Moderate Needs Initial Licensure Preparation
- Special Education Moderate/Intensive Needs Additional Licensure Preparation
- Special Education Moderate/Intensive Needs Initial Licensure Preparation
- Special Education Pre-K Special Needs Endorsement Preparation
- Special Education Transition-to-Work Endorsement Preparation
- Transition-to-Work Endorsement Preparation

## School of Lifespan Development and Educational Sciences Faculty

- Albritton, Kizzy (2015), Assistant Professor, Ph.D., Georgia State University, 2014
- Alexander, Donna C. (2008), Lecturer, M.B.A., Ashland University, 2004
- Anhalt, Karla (2003), Professor, Ph.D., West Virginia University, 2000
- Balan, Christine M. (1986), Professor, Ph.D., Kent State University, 1994
- Barber, Brian R. (2013), Assistant Professor, Ph.D., Kent State University, 2014

- Bedesem, Pena L. (2010), Associate Professor, Ph.D., University of Central Florida, 2010
- Bergh, Kathleen A. (2000), Senior Lecturer, M.Ed., University of Akron, 1985
- Blankemeyer, Maureen S. (1996), Associate Professor, Ph.D., Oklahoma State University, 1996
- Burgess, Sloane R. (2008), Associate Professor, Ph.D., Case Western Reserve University, 2007
- Byrd, Janice (2017), Assistant Professor, Ph.D., University of Iowa, 2016
- Chen, Ching-I (2014), Assistant Professor
- Cichy, Kelly E. (2008), Associate Professor, Ph.D., Pennsylvania State University, 2007
- Cimera, Robert E. (2007), Professor, Ph.D., University of Illinois-Urbana, Champaign, 1998
- Cowan, Richard J. (2003), Associate Professor, Ph.D., University of Nebraska, 2003
- Cox, Jane A. (2007), Associate Professor, Ph.D., Kent State University, 1997
- Cureton, Jenny (2016), Assistant Professor, Ph.D., University of Northern Colorado, 2016
- Dellmann-Jenkins, Mary M. (1981), Professor & School Director, Ph.D., University of Wisconsin-Madison, 1982
- Ferdig, Richard E. (2009), Professor, Ph.D., Michigan State University, 2000
- Geething, Kathy J. (2001), Lecturer
- Godwin-Inaba, Karrie (2016), Assistant Professor, Ph.D., Carnegie Mellon, 2015
- Guillot-Miller, Lynne M. (2003), Associate Professor, Ph.D., University of New Orleans, 2003
- Hallaman, Lisa M. (2007), Senior Lecturer, M.A., Kent State University, 1996
- Harjusola-Webb, Sanna M. (2006), Associate Professor, Ph.D., University of Kansas, 2006
- Hines, Laurie A. (2000), Assistant Professor, Ph.D., Indiana University, Bloomington, 2000
- Jencius, Martin J. (2000), Associate Professor, Ph.D., University of South Carolina, 1996
- Kenyon, Cynthia (2009), Lecturer, M.Ed., Kent State University, 2010
- Kritzer, Karen (2007), Associate Professor, Ph.D., University of Pittsburgh, 2007
- Leslie, Mykal J. (2014), Assistant Professor
- Liou, Chih-Ling (2014), Assistant Professor, Ph.D., Virginia Polytechnic Institute and State University, 2011
- Luft, Pamela J. (1995), Professor, Ph.D., University of Illinois-Urbana-Champaign, 1995
- McCartney, Jamie L. (2007), Assistant Professor, Ph.D., University of Akron, 2004
- McGlothlin, Jason M. (2000), Associate Professor, Ph.D., Ohio University, 2001
- McWilliams-Woods, Wendy (1984), Assistant Professor, M.Ed., Kent State University, 1988
- Moore, Alma J. (2012), Lecturer, M.Ed., Malone University, 2004
- Morris, Bradley J. (2012), Associate Professor, Ph.D., The Ohio State University, 1998

- Morsefield, Rebecca H. (1998), Associate Lecturer, M.Ed., Kent State University, 1997
- Osborn, Cynthia J. (1997), Professor, Ph.D., Ohio University, 1996
- Page, Betsy J. (1996), Associate Professor, Ed.D., University of Maine, 1996
- Pieper, Alicia (1969), Assistant Professor, M.A., Kent State University, 1968
- Rainey, John S. (2002), Assistant Professor, Ph.D., Texas A&M University, 2001
- Rumrill, Phillip D. (1996), Professor, Ph.D., University of Arkansas, 1983
- Sansosti, Frank J. (2006), Professor, Ph.D., University of South Florida, 2005
- Smith, Gregory C. (2001), Professor, Ph.D., University of Rochester, 1983
- Stevenson, Nathan (2015), Assistant Professor, Ph.D., Michigan State University, 2015
- Storlie, Cassandra A. (2013), Associate Professor, Ph.D., University of Iowa, 2013
- Tankersley, Melody J. (1993), Professor & Interim Senior Vice President & Provost, Ph.D., University of Virginia, 1992
- Tobias, Scott A. (2009), Associate Professor, D.Sci., University of Missouri, 2009
- Toepfer, Steven M. (2004), Associate Professor, Ph.D., The Ohio State University, 2001
- Unger, Darlene D. (2016), Professor, Ph.D., Virginia Commonwealth University, 2001
- Walker, Kathleen K. (2002), Associate Professor, Ph.D., Kansas State University, 2002
- Waugh, Jennifer A. (2012), Assistant Professor
- Wiley, Andrew L. (2008), Associate Professor, Ed.D., University of Virginia, 2008
- Wisdom, Sonya L. (2012), Associate Professor, Ph.D., Kent State University, 2010
- Zhang, Jing (2018), Assistant Professor

## American Sign Language/English Interpreting (ASEI)

### ASEI 30095 SPECIAL TOPICS IN AMERICAN SIGN LANGUAGE-ENGLISH INTERPRETING 1-4 Credit Hours

(Repeatable for credit) Special topics courses to be offered on as-needed basis when the content cannot be covered in the traditional curriculum.

**Prerequisite:** ASL 29201 and ASEI 43102; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 1-4 lecture

**Grade Mode:** Standard Letter

### ASEI 43100 SURVEY OF THE INTERPRETING PROFESSION (WIC) 3 Credit Hours

(Slashed with SPED 53100) Introduction to the field of ASL-English interpreting. The following will be discussed: the history of the interpreting profession; the varied roles and responsibilities of interpreters; issues & concerns facing interpreters; legal mandates and constraints governing the provision of interpreters; ethical guidelines and their application to educational environments. Since interpreters are expected to be fluent in both English and ASL, this course will strive to enhance students' facility with both languages.

**Prerequisite:** Minimum C grade in ASL 19202.

**Pre/corequisite:** Minimum C grade in ASL 29201.

**Corequisite:** ASEI 43106 and SPED 43309.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Writing Intensive Course

### ASEI 43102 INTERPRETING PROCESSES I 3 Credit Hours

(Slashed with SPED 53102) Beginning level interpreting course that examines the models of interpreting and their application to practice. Consecutive and simultaneous interpreting strategies are used to develop processing skills for both English to ASL and ASL to English interpretations. Samples of narrative genre are the texts used for interpretations as students examine the linguistic and cultural differences between ASL and English narratives.

**Prerequisite:** ASL 29201 and ASEI 43100; and ASL English Interpreting (ASEI) major.

**Pre/corequisite:** ASL 29202.

**Corequisite:** ASL 49401.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

### ASEI 43103 INTERPRETING PROCESSES II 3 Credit Hours

(Slashed with SPED 53103) Intermediate level interpreting course that challenges students to interpret the more complex genres including expository, procedural, and argumentative texts. Students will study and apply contextualization strategies. Discourse that is common to both the adult deaf community and educational settings will be interpreted and transliterated. There will be clinical application hours that students will need to accrue in this course.

**Prerequisite:** Minimum C grade in the following courses ASL 29202 and ASEI 43102; and ASL English Interpreting (ASEI) major; and admission to professional phase.

**Pre/corequisite:** Minimum C grade in ASL 39201.

**Corequisite:** ASEI 43111 and SPED 43310.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ASEI 43104 INTERPRETING PROCESSES III 3 Credit Hours**

(Slashed with SPED 53104) Advanced level interpreting course focused on enhancing students' English to ASL and ASL to English skills in a variety of settings. Complex texts are selected from a variety of disciplines from both community and educational settings. Students build on previously developed self-assessment skills to create detailed and analytical diagnostic charts of their interpreted work. There will be clinical application hours that students will need to accrue in this course.

**Prerequisite:** Minimum C grade in the following courses ASL 39202, ASEI 43107 and SPED 43092; and ASL English Interpreting (ASEI) major; and admission to professional phase.

**Pre/corequisite:** Minimum C grade in ASEI 43112.

**Corequisite:** ASL 49108.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ASEI 43105 TRANSLITERATING 3 Credit Hours**

(Slashed with SPED 53105) Receptive and expressive use of English-based sign language systems; ASL root words, prefix suffix use, simultaneous speaking and signing. Explanation and demonstration of Cued speech; exploration of the research related to individuals who use Cued speech.

**Prerequisite:** ASEI 43103 and ASL 39201; and ASL English Interpreting (ASEI) major; and admission to professional phase.

**Pre/corequisite:** ASL 39202.

**Corequisite:** ASEI 43107, ASEI 43110 and SPED 43092.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ASEI 43106 SCHOOL SETTING INTERPRETING 3 Credit Hours**

Issues, challenges, roles, responsibilities, and ethics of classroom-based educational interpreting are explored. Students are exposed to the variety of classroom designs where interpreters work such as mainstreaming, inclusion, resource room, and self-contained classrooms. K-12 settings place additional expectations for interpreter participation including IEP meetings, counseling, school assemblies and performing arts presentations.

**Prerequisite:** ASL 19202; and American Sign Language/English Interpreting [ASEI] major; and special approval.

**Pre/corequisite:** ASL 29201.

**Corequisite:** ASEI 43100.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ASEI 43107 COMMUNITY SETTING INTERPRETING 3 Credit Hours**

(Slashed with SPED 53107) This course explores the various venues that interpreters can work in the community. Emphasis will be given to the development of specialized vocabulary. Students participate in mock interpreting situations common to community interpreting in order to identify ethical dilemmas, demands and controls.

**Prerequisite:** ASEI 43103, ASEI 43111, ASL 39201 and SPED 43310; and ASL English Interpreting (ASEI) major; and admission to professional phase.

**Pre/corequisite:** ASL 39202.

**Corequisite:** ASEI 43110, ASEI 43105 and SPED 43092.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ASEI 43108 MEDICAL INTERPRETING 3 Credit Hours**

(Slashed with SPED 53108) This course provides students with the opportunity to explore medical topics, terminologies, and areas of practice to enable them to more effectively meet the needs of deaf patients in a variety of health care settings. This course is designed to equip students with basic skills and knowledge to meet the demands of this setting. Students in this course will become familiar with body systems structures, functions, and common conditions-diseases affecting these systems. Students will be exposed to a variety of medical protocols, scripts, testing procedures, and areas of medical practice. As a result, students will be able to interpret medical information into ASL appropriate structures. They will specifically be able to apply strategies of depiction and spatial mapping.

**Prerequisite:** Minimum C grade in ASEI 43102 or SPED 53102; and American Sign Language/English Interpreting major.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ASEI 43109 MENTAL HEALTH INTERPRETING 3 Credit Hours**

This course will provide students with a foundation of common diagnoses, mental health professionals and their various roles, common mental health settings interpreters may work, and terminology paired with ASL equivalents. This course will also emphasize the relationship between interpreter and mental health professional, providing skill sets in which to pre-and-post conference to ensure an accurate interpretation is rendered, and the goals of the therapist-professional have been met.

**Prerequisite:** Minimum C grade in ASEI 43103 or SPED 53103; and American Sign Language/English Interpreting major.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ASEI 43110 DISCOURSE ANALYSIS FOR INTERPRETERS 3 Credit Hours**

(Slashed with SPED 53110) This course will explore the field of discourse analysis and its relation to the work of an interpreter. Students will complete the course with an understanding of terminology specific to discourse analysis, a better understanding of one's own discourse style, and a better idea of how English and ASL use various discourse features. These features include the following: Turn-taking, Conversational Repair- false starts, Discourse Markers, Constructing Dialogue & Action, Cohesion, Rhythm, Rhyme, & Repetition.

**Prerequisite:** ASL 39201; and ASEI 43103, ASEI 43111 and SPED 43310; and admission to the professional phase.

**Pre/corequisite:** ASL 39202.

**Corequisite:** ASEI 43105 and ASEI 43107.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ASEI 43111 THE PROFESSIONAL INTERPRETER 3 Credit Hours**  
 (Slashed with ASEI 53111) Covers current trends in the field regarding situational and ethical issues. Demand-control schema and the RID Code of Professional Conduct are key components of the students' investigation and application. Students receive guidance in preparing for the RID NIC and participate in practicing for the RID performance test.  
**Prerequisite:** ASEI 43102 and ASL 49401; and ASL English Interpreting major; and admission to professional phase.  
**Pre/corequisite:** ASL 39201.  
**Corequisite:** ASEI 43103 and SPED 43310.  
**Schedule Type:** Lecture  
**Contact Hours:** 3 lecture  
**Grade Mode:** Standard Letter

**ASEI 43112 INTERACTIVE INTERPRETING 3 Credit Hours**  
 (Slashed with SPED 53112) Guides students through a process of examining the complex nature of interpreting interactive discourse. Discussions will focus on managing this multi-layered process when participants' roles, assumptions, and goals can be congruent or adversarial. Student will learn to navigate contrasting cultural, linguistic, and discourse expectations. This course will present numerous interactive scenarios for students to interpret typical of a variety of settings with different participant configurations.  
**Prerequisite:** ASL 29202, ASL 49401, ASEI 43100, ASEI 43102, ASEI 43103, ASEI 43106 and SPED 43309; and ASL English Interpreting major; and admission to professional phase.  
**Pre/corequisite:** ASL 39201.  
**Schedule Type:** Lecture  
**Contact Hours:** 3 lecture  
**Grade Mode:** Standard Letter

**ASEI 43113 ASL TO ENGLISH INTERPRETING PROCESSES 3 Credit Hours**  
 (Slashed with SPED 53113) Guides students in developing interpreting skills from their L2 (ASL) to their L1 (English). Students will learn strategies for increasing their ASL and English vocabularies for the purposes of understanding equivalents when applying English vocabulary to ASL signs. Students will examine their ability to apply this proficiency to various registers of ASL. Course will also emphasize incorporating Academic English into written scholarly papers to increase students' abilities to apply this to their interpretations.  
**Prerequisite:** ASL 29201 and ASEI 43100; and ASL English Interpreting major.  
**Schedule Type:** Lecture  
**Contact Hours:** 3 lecture  
**Grade Mode:** Standard Letter

**ASEI 43192 ADVANCED PRACTICUM: ASL ENGLISH INTERPRETING (ELR) 9 Credit Hours**  
 (Repeatable for credit) Field-based practicum experience provides pre-service interpreters with opportunity to learn from currently practicing master educational and-or community interpreters. Students will be placed in education and-or community settings. University supervisor and teacher mentor observe and assess student skill. Students are required to complete Bureau of Criminal Investigation and Identification (BCII) and Federal Bureau of Investigation (FBI) background checks and submit the results to authorized personnel at their assigned school-agency before the first day of the semester in which the internship will take place. Official valid certification of Child Safety Training, approved Basic Life Support, and A.L.I.C.E. Training must be presented to the campus office of clinical experience or designated faculty-staff at Regional campuses before registering for this course. Students must pass the SLPI or ASLPI on or before Oct. 31st the semester prior. Major GPA of 3.000 is required.  
**Prerequisite:** Minimum B- grade in ASEI 43104; and minimum C grade in ASEI 43112 and ASL 49108; and ASL English Interpreting major; and admission to professional phase; and a 2.750 overall GPA; and special approval.  
**Corequisite:** ASEI 49625.  
**Schedule Type:** Practical Experience  
**Contact Hours:** 27 other  
**Grade Mode:** Satisfactory/Unsatisfactory  
**Attributes:** Experiential Learning Requirement

**ASEI 49625 INQUIRY SEMINAR FOR ASL-ENGLISH INTERPRETERS 3 Credit Hours**  
 Final semester course to coincide with the advanced practice. Students present a professional description of their interpreting site analyzing students' needs, school and instructor expectations or barriers, application of the Demand – Control Schema, and ethical challenges. Current research in the field of interpreting is examined and a diagnostic chart of a work sample is created. Students explore the EIPA exam, its theoretical foundations, and participate in practicing for the EIPA.  
**Prerequisite:** ASL 49108, ASEI 43104 and ASEI 43112; and ASL English Interpreting major; and admission to professional phase.  
**Corequisite:** ASEI 43192.  
**Schedule Type:** Seminar  
**Contact Hours:** 3 other  
**Grade Mode:** Standard Letter

## Career and Community Services (CCS)

**CCS 00005 COLLEGE ORIENTATION 1 Credit Hour**  
 This course introduces students to the expectations and responsibilities of being a college student. Students will be provided with valuable information of the resources and activities available at Kent State. Students will explore personal values, skills, abilities, and beliefs, and learn how to set academic goals that will guide them throughout their college experience.  
**Prerequisite:** Career and Community Studies, Career Community Studies–College Preparation, Career Community Studies–Employment Readiness majors; and special approval.  
**Schedule Type:** Lecture  
**Contact Hours:** 1 lecture  
**Grade Mode:** Satisfactory/Unsatisfactory

**CCS 00010 PERSONAL EXPLORATION I: NUTRITION AND PHYSICAL FITNESS 3 Credit Hours**

This course focuses on the importance of nutrition and physical exercise in order to take care of and to improve upon one's personal health needs.

**Prerequisite:** Career and Community Studies, Career Community Studies–College Preparation, Career Community Studies–Employment Readiness majors.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CCS 00015 ACADEMIC EXPERIENCE I: DISABILITY AWARENESS 3 Credit Hours**

This course promotes development of self-awareness through identifying personal strengths and needs, and self-advocacy skills through various methods of communication. Students will learn of their rights, responsibilities, and of the disabilities laws that help them to advocate for necessary supports.

**Prerequisite:** Career and Community Studies, Career Community Studies–College Preparation, Career Community Studies–Employment Readiness majors.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CCS 00020 TECHNOLOGY LABORATORY I 1 Credit Hour**

This course is an introduction to the uses of Flashline, BlackBoard Learn, and Microsoft Word to enhance student academic performance.

**Prerequisite:** Career and Community Studies, Career Community Studies–College Preparation, Career Community Studies–Employment Readiness majors.

**Schedule Type:** Laboratory

**Contact Hours:** 2 lab

**Grade Mode:** Standard Letter

**CCS 00025 FINANCIAL LITERACY I: BUDGETING PERSONAL EXPENSES IN COLLEGE 1 Credit Hour**

This introductory course will provide the student with an opportunity to develop attitudes and skills to achieve personal financial wellness and satisfaction while in college. Topics include how to set up a budget, considering where one might save money in daily living, and managing expenses.

**Prerequisite:** Career and Community Studies major, Career and Community Studies–College Preparation, or Career and Community Studies–Employment Readiness major.

**Schedule Type:** Lecture

**Contact Hours:** 1 lecture

**Grade Mode:** Standard Letter

**CCS 00030 PHYSICAL EDUCATION I 1 Credit Hour**

Students will participate in a sport or physical fitness activity in order to learn more about the topic of interest and to increase personal health. Students will practice appropriate personal and social skills, and demonstrate abilities to manage course responsibilities.

**Prerequisite:** Career and Community Studies, Career Community Studies–College Preparation, Career Community Studies–Employment Readiness majors.

**Schedule Type:** Laboratory

**Contact Hours:** 2 lab

**Grade Mode:** Satisfactory/Unsatisfactory

**CCS 00035 HEALTH AND WELLNESS I: PERSONAL SOCIAL SKILLS 3 Credit Hours**

Effective communication enhances personal, family, and community health. Select personal and social skills are presented in order to improve the health of the student. The student will participate in activities that allow them to practice and perform skills both in and outside of the classroom. The student creates a portfolio of course assignments for evaluation.

**Prerequisite:** Career and Community Studies, Career Community Studies–College Preparation, Career Community Studies–Employment Readiness majors.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CCS 00040 GET OUT OF YOUR COMFORT ZONE I: PREPARING FOR SUCCESS 3 Credit Hours**

Life begins with one step outside of your comfort zone. This introductory course is designed to teach many different literacy (e.g. reading, writing, speaking, and technology) skills that college students must develop in order for academic, community inclusion and social success, and to expand self-knowledge about personal strengths, preferences, interests, and needs. The student will apply self-determination as they develop skills necessary to attain academic success and to make connections to the university and community beyond.

**Prerequisite:** Career and Community Studies major, Career and Community Studies–College Preparation, or Career and Community Studies–Employment Readiness major.

**Schedule Type:** Laboratory, Lecture, Combined Lecture and Lab

**Contact Hours:** 1 lecture, 6 lab

**Grade Mode:** Standard Letter

**CCS 00105 INTRODUCTION TO CAREER EXPLORATION 1 Credit Hour**

Students begin the exploration process that helps them to become aware of their specific abilities, interests, and needs, and how these relate to their future life work.

**Prerequisite:** Career and Community Studies, Career Community Studies–College Preparation, Career Community Studies–Employment Readiness majors.

**Schedule Type:** Lecture

**Contact Hours:** 1 lecture

**Grade Mode:** Standard Letter

**CCS 00110 PERSONAL EXPLORATION II: INDEPENDENT LIVING AND LEISURE EDUCATION 3 Credit Hours**

This course focuses on two different but related topics. The first half of the semester is designed to provide college students with the opportunity to explore and develop personal leisure values, and expand their leisure interests. During the second half of the semester, students will practice various independent living skills in order to become more responsible adults.

**Prerequisite:** Career and Community Studies, Career Community Studies–College Preparation, Career Community Studies–Employment Readiness majors.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter



**CCS 00115 ACADEMIC EXPERIENCE II: SELF-DETERMINATION 3 Credit Hours**

This course will provide students with opportunities to recognize and develop skills that can help them to increase success in all areas of their lives. Persons who are more self-determined often experience academic, employment, community living and personal satisfaction.

**Prerequisite:** Career and Community Studies, Career Community Studies–College Preparation, Career Community Studies–Employment Readiness majors.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CCS 00120 TECHNOLOGY LABORATORY II 1 Credit Hour**

Introduction to the uses of Microsoft Power Point, Publisher, and Excel in order to connect knowledge and learning experiences for student success.

**Prerequisite:** Career and Community Studies, Career Community Studies–College Preparation, Career Community Studies–Employment Readiness majors.

**Schedule Type:** Laboratory

**Contact Hours:** 2 lab

**Grade Mode:** Standard Letter

**CCS 00125 FINANCIAL LITERACY II: BUDGETING PERSONAL EXPENSES AFTER COLLEGE 1 Credit Hour**

This course will provide the student with a more detailed opportunity to reflect on one's desire and ability to manage money in adult life to achieve personal financial wellness and satisfaction. Topics include earning and saving money, how to calculate wages and understanding federal, state, and local taxes, and establishing a realistic budget that will help the student to transition into adult life.

**Prerequisite:** Career and Community Studies major, Career and Community Studies–College Preparation, or Career and Community Studies–Employment Readiness major.

**Schedule Type:** Lecture

**Contact Hours:** 1 lecture

**Grade Mode:** Standard Letter

**CCS 00130 PHYSICAL EDUCATION II 1 Credit Hour**

Students will participate in a sport or physical fitness activity in order to learn more about the topic of interest and to increase personal health. Students will advance appropriate personal and social skills, and demonstrate increased abilities to manage course responsibilities.

**Prerequisite:** Career and Community Studies, Career Community Studies–College Preparation, Career Community Studies–Employment Readiness majors; and special approval.

**Schedule Type:** Laboratory

**Contact Hours:** 2 lab

**Grade Mode:** Satisfactory/Unsatisfactory

**CCS 00135 HEALTH AND WELLNESS II: HUMAN SEXUALITY 3 Credit Hours**

Focus of the course is to understand behaviors and issues related to human sexuality.

**Prerequisite:** Career and Community Studies, Career Community Studies–College Preparation, Career Community Studies–Employment Readiness majors.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CCS 00140 GET OUT OF YOUR COMFORT ZONE II: VOLUNTEERING 3 Credit Hours**

With busy lives, it can be hard to find time to volunteer. However, the benefits of volunteering are enormous to you, your family, and your community. Volunteering and helping others can help you reduce stress, combat depression, keep you mentally stimulated, and provide a sense of purpose. The student will research and explore various opportunities to volunteer, even in simple ways, that can help others in need and improve student health and happiness.

**Prerequisite:** Career and Community Studies major, Career and Community Studies–College Preparation, or Career and Community Studies–Employment Readiness major.

**Schedule Type:** Laboratory, Lecture, Combined Lecture and Lab

**Contact Hours:** 1 lecture, 6 lab

**Grade Mode:** Standard Letter

**CCS 00196 FRESHMAN INDIVIDUAL STUDY 1-3 Credit Hours**

(Repeatable for credit) Independent Study is a student-initiated experience in order to pursue an area of career interest not covered by a regular course offering; with the approval and guidance of a Career and Community Studies faculty member.

**Prerequisite:** Career and Community Studies, Career Community Studies–College Preparation, Career Community Studies–Employment Readiness majors.

**Schedule Type:** Individual Investigation

**Contact Hours:** 3-9 other

**Grade Mode:** Standard Letter-IP

**CCS 00205 CAREER EXPLORATION I 3 Credit Hours**

This course promotes assessment of specific career skills, interests, and needs, and how these relate to future life work. The student develops career awareness through evaluation of past experiences that have influenced career development and uses person-centered planning tools to develop and implement meaningful future career goals.

**Prerequisite:** Career and Community Studies major, Career and Community Studies–College Preparation, or Career and Community Studies–Employment Readiness major.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CCS 00210 ACADEMIC SUCCESS I 3 Credit Hours**

This introductory course is designed to teach many different literacy (e.g. reading, writing, speaking, and technology) skills that college students must develop in order to have academic and social success. The student will practice to communicate effectively and identify resources available in order to complete coursework assignments and projects.

**Prerequisite:** Career and Community Studies major, Career and Community Studies–College Preparation, or Career and Community Studies–Employment Readiness major.

**Schedule Type:** Laboratory, Lecture, Combined Lecture and Lab

**Contact Hours:** 1 lecture, 6 lab

**Grade Mode:** Standard Letter

**CCS 00215 INTRODUCTION TO COMMUNICATION SKILLS 3 Credit Hours**

This course explores communication theories and practices in group, interpersonal, and public contexts. Students explore the processes of active listening, developing effective communication skills, and the processes of organizing thoughts into clear messages so that others may more easily understand.

**Prerequisite:** Career and Community Studies, Career Community Studies–College Preparation, Career Community Studies–Employment Readiness majors.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Satisfactory/Unsatisfactory

**CCS 00225 FINANCIAL LITERACY III 1 Credit Hour**

This course provides the student with real-life situations to practice basic math skills used in budgeting and managing money wisely. The student recognizes the hidden costs associated with many of the essentials and conveniences they use daily.

**Prerequisite:** Career and Community Studies, Career Community Studies–College Preparation, Career Community Studies–Employment Readiness majors.

**Schedule Type:** Lecture

**Contact Hours:** 1 lecture

**Grade Mode:** Standard Letter

**CCS 00235 HEALTH AND WELLNESS III: INJURY PREVENTION 3 Credit Hours**

The focus of the course is to understand behaviors and issues related to personal injury and safety.

**Prerequisite:** Career and Community Studies, Career Community Studies–College Preparation, Career Community Studies–Employment Readiness majors.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CCS 00292 SOPHOMORE PRACTICUM I 3 Credit Hours**

(Repeatable for credit) This course provides the student with the opportunity to develop crucial work skills that are important in any employment positions. The student gains self-awareness of their work skills and habits and receives support as they prepare for the career that they ultimately desire.

**Prerequisite:** Career and Community Studies, Career Community Studies–College Preparation, Career Community Studies–Employment Readiness majors; and special approval.

**Schedule Type:** Practical Experience

**Contact Hours:** 9 other

**Grade Mode:** Standard Letter-IP

**CCS 00296 SOPHOMORE INDEPENDENT STUDY 1-3 Credit Hours**

(Repeatable for credit) Independent Study is a student-initiated experience in order to pursue an area of career interest not covered by a regular course offering, with the approval and guidance of a Career and Community Studies faculty member.

**Prerequisite:** Career and Community Studies, Career Community Studies–College Preparation, Career Community Studies–Employment Readiness majors.

**Schedule Type:** Individual Investigation

**Contact Hours:** 3-9 other

**Grade Mode:** Standard Letter-IP

**CCS 00305 CAREER EXPLORATION II 3 Credit Hours**

The purpose of this course is to help the student to narrow career possibilities and to identify the career of their choice. The student conducts research into an identified career field in order to list the necessary skills, to investigate local occupational opportunities, and to specify any training experiences that are available to advance knowledge and skills in this area.

**Prerequisite:** CCS 00205; and Career and Community Studies major, Career and Community Studies-College Preparation, or Career and Community Studies-Employment Readiness major.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CCS 00310 ACADEMIC SUCCESS II 3 Credit Hours**

This course supports the student as they advance skills in learning strategies, critical thinking, problem-solving, and study skills; and as they apply skills to coursework that prepares for a specific career interest. The student practices effective communicate through reading, writing, and speaking while completing assignments and projects.

**Prerequisite:** Career and Community Studies major, Career and Community Studies-College Preparation, or Career and Community Studies-Employment Readiness major.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 1 lecture, 6 lab

**Grade Mode:** Standard Letter

**CCS 00325 FINANCIAL LITERACY IV 1 Credit Hour**

The student will understand how credit card debt, personal loans for housing, leisure, or transportation needs, and investing in savings and bonds can have an effect on the lifestyle that one hopes to achieve.

Making wise financial decisions and planning is important when becoming an independent adult.

**Prerequisite:** Career and Community Studies, Career Community Studies–College Preparation, Career Community Studies–Employment Readiness majors.

**Schedule Type:** Lecture

**Contact Hours:** 1 lecture

**Grade Mode:** Standard Letter

**CCS 00335 HEALTH AND WELLNESS IV: HEALTHY LIVING AND SUBSTANCE ABUSE 3 Credit Hours**

This course will support behavior that encourages students to make responsible choices for lifelong health and wellness through instruction and active participation. Topics to be discussed include personal and social skills, nutrition and fitness, developing coping skills, sexuality education, substance use, and injury prevention.

**Prerequisite:** Career and Community Studies, Career Community Studies–College Preparation, Career Community Studies–Employment Readiness majors.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CCS 00392 SOPHOMORE PRACTICUM II 3 Credit Hours**

(Repeatable for credit) This course provides the student with additional opportunities to develop crucial work skills that are important in all employment positions. The student expands self-awareness of their work skills and habits and receives support as they prepare for the career that they ultimately desire.

**Prerequisite:** Career and Community Studies, Career Community Studies–College Preparation, Career Community Studies–Employment Readiness majors.

**Schedule Type:** Practical Experience

**Contact Hours:** 9 other

**Grade Mode:** Standard Letter-IP

**CCS 00395 SPECIAL TOPICS 1-4 Credit Hours**

(Repeatable for credit) Course topic will vary depending upon individual career choices. The student will participate in courses with like-minded peers in order to gain knowledge and skills in the career field of interest. Students must get approval from their academic advisor and course faculty prior to taking this course.

**Prerequisite:** Career and Community Studies, Career Community Studies–College Preparation, Career Community Studies–Employment Readiness majors; and special approval.

**Schedule Type:** Laboratory, Lecture

**Contact Hours:** 1-4 lecture, 2-8 lab

**Grade Mode:** Satisfactory/Unsatisfactory

**CCS 00396 JUNIOR INDEPENDENT STUDY 1-3 Credit Hours**

(Repeatable for credit) Independent Study is a student-initiated experience in order to pursue an area of career interest not covered by a regular course offering, with the approval and guidance of a Career and Community Studies faculty member.

**Prerequisite:** Career and Community Studies, Career Community Studies–College Preparation, Career Community Studies–Employment Readiness majors; and special approval.

**Schedule Type:** Individual Investigation

**Contact Hours:** 3-9 other

**Grade Mode:** Standard Letter-IP

**CCS 00405 CAREER PREPARATION I: CHOOSING YOUR CAREER 3 Credit Hours**

This course prepares the student for entering the work force by creating a resume, practicing interviewing skills, and by developing networks of people who can help them to achieve their career goals. The student will participate in job shadowing opportunities in order to better understand the expectations and requirements of the career field of interest.

**Prerequisite:** Career and Community Studies, Career Community Studies–College Preparation, Career Community Studies–Employment Readiness majors.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CCS 00420 ACADEMIC SUPPORT I 3 Credit Hours**

This course provides support to the student as they advance in goal setting and attainment skills. The student is supported as they increase critical thinking skills and monitors academic progress; and as they complete course assignments while working towards becoming an organized and self-determined student.

**Prerequisite:** Career and Community Studies, Career Community Studies–College Preparation, Career Community Studies–Employment Readiness majors.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CCS 00492 JUNIOR PRACTICUM III 4 Credit Hours**

(Repeatable for credit) Once a career has been initially identified, it is important early on for the student to be exposed to the requirements and environments of that field. Students will be provided opportunities to perform work relevant to their career choice. Evaluating the fit helps to ensure that they have chosen wisely. In-progress (IP) mark permissible.

**Prerequisite:** Career and Community Studies, Career Community Studies–College Preparation, Career Community Studies–Employment Readiness majors.

**Schedule Type:** Practical Experience

**Contact Hours:** 12 other

**Grade Mode:** Standard Letter-IP

**CCS 00495 SPECIAL TOPICS 1-4 Credit Hours**

(Repeatable for credit) Course topic will vary depending upon individual career choices. The student will participate in courses with like-minded peers in order to gain knowledge and skills in the career field of interest. Students must get approval from their academic advisor and course faculty prior to taking this course.

**Prerequisite:** Career and Community Studies, Career Community Studies–College Preparation, Career Community Studies–Employment Readiness majors; and special approval.

**Schedule Type:** Laboratory, Lecture

**Contact Hours:** 1-4 lecture, 1-4 lab

**Grade Mode:** Satisfactory/Unsatisfactory

**CCS 00496 SENIOR INDEPENDENT STUDY 1-3 Credit Hours**

Independent Study is a student-initiated experience in order to pursue an area of career interest not covered by a regular course offering, with the approval and guidance of a Career and Community Studies faculty member.

**Prerequisite:** Career and Community Studies, Career Community Studies–College Preparation, Career Community Studies–Employment Readiness majors.

**Schedule Type:** Individual Investigation

**Contact Hours:** 3-9 other

**Grade Mode:** Standard Letter-IP

**CCS 00505 CAREER PREPARATION II 3 Credit Hours**

This course is designed to continue to prepare the student for entering into the work force by expanding interview skills and by locating and utilizing resources such as state employment and vocational rehabilitation services to promote career decisions.

**Prerequisite:** CCS 00405; and Career and Community Studies, Career Community Studies–College Preparation, Career Community Studies–Employment Readiness majors.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CCS 00520 ACADEMIC SUPPORT II 3 Credit Hours**

This sequenced course continues to provide support to the student as they advance in goal setting and attainment skills. The student is supported as they increase critical thinking skills, monitors progress, and receives support as they complete course assignments pertaining to career goals while working towards becoming an organized and self-determined student.

**Prerequisite:** CCS 00420; and Career and Community Studies, Career Community Studies–College Preparation, Career Community Studies–Employment Readiness majors.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CCS 00592 JUNIOR PRACTICUM IV 4 Credit Hours**

(Repeatable for credit) This course provides additional opportunities for the student to be exposed to the requirements and environments of the career field to ensure the student's commitment to the career choice. Additionally, the student continues to develop appropriate work habits and behaviors while obtaining specific occupation skills.

**Prerequisite:** Career and Community Studies, Career Community Studies–College Preparation, Career Community Studies–Employment Readiness majors; and special approval.

**Schedule Type:** Practical Experience

**Contact Hours:** 12 other

**Grade Mode:** Standard Letter-IP

**CCS 00595 SPECIAL TOPICS 1-4 Credit Hours**

(Repeatable for credit) Course topic will vary depending upon individual career choices. The student will participate in courses with like-minded peers in order to gain knowledge and skills in the career field of interest. Students must get approval from their academic advisor and course faculty prior to taking this course.

**Prerequisite:** Career and Community Studies, Career Community Studies–College Preparation, Career Community Studies–Employment Readiness majors; and special approval.

**Schedule Type:** Laboratory, Lecture

**Contact Hours:** 2-8 lab

**Grade Mode:** Satisfactory/Unsatisfactory

**CCS 00605 COMMUNITY LIFE I: PREPARE FOR EMPLOYMENT AFTER COLLEGE 1 Credit Hour**

This course guides the student as they prepare for employment by completing on-line employment recognized certifications that apply to career interest as they plan for transitioning back to the community in which they will work after graduation. The student considers personal strengths, preferences, interests, and needs as they relate to career specific qualifications.

**Prerequisite:** Career and Community Studies major, Career Community Studies-College Preparation major, or Career Community Studies-Employment Readiness major.

**Corequisite:** CCS 00606.

**Schedule Type:** Lecture

**Contact Hours:** 1 lecture

**Grade Mode:** Standard Letter

**CCS 00606 COMMUNITY LIFE I LABORATORY 3 Credit Hours**

Using the Personal Profile created in a coexisting course, the student will complete on-line employment recognized certifications in preparation for their identified career field.

**Prerequisite:** Career and Community Studies major, Career and Community Studies-College Preparation, or Career and Community Studies-Employment Readiness major.

**Corequisite:** CCS 00605.

**Schedule Type:** Laboratory

**Contact Hours:** 9 lab

**Grade Mode:** Standard Letter

**CCS 00692 SENIOR INTERNSHIP I 1-12 Credit Hours**

(Repeatable for credit) Internship courses are credit-bearing work experiences that are integrated with academic instruction and relate to an individual student's career goals. The internship occurs in a natural community setting and provides an environment and context to integrate specific career knowledge, skills, and professional behaviors.

**Prerequisite:** Career and Community Studies, Career Community Studies–College Preparation, Career Community Studies–Employment Readiness majors; and special approval.

**Schedule Type:** Practical Experience

**Contact Hours:** 3-36 other

**Grade Mode:** Standard Letter-IP

**CCS 00695 SPECIAL TOPICS 1-4 Credit Hours**

(Repeatable for credit) Course topic will vary depending upon individual career choices. The student will participate in courses with like-minded peers in order to gain knowledge and skills in the career field of interest. Students must get approval from their academic advisor and course faculty prior to taking this course.

**Prerequisite:** Career and Community Studies, Career Community Studies–College Preparation, Career Community Studies–Employment Readiness majors.

**Schedule Type:** Laboratory, Lecture

**Contact Hours:** 1-4 lecture, 2-8 lab

**Grade Mode:** Satisfactory/Unsatisfactory

**CCS 00705 COMMUNITY LIFE II: MAKING COMMUNITY CONNECTIONS 1 Credit Hour**

In this class, the student will discuss and design a plan to develop two valuable resources to aid in the transition back to their community. One is a portfolio that contains cumulative projects that will serve as a resource guide. The other is a Person-Centered Plan that identifies past, present, and future skill and goal development.

**Prerequisite:** Career and Community Studies major, Career and Community Studies-College Preparation, or Career and Community Studies-Employment Readiness major.

**Corequisite:** CCS 00705.

**Schedule Type:** Lecture

**Contact Hours:** 1 lecture

**Grade Mode:** Standard Letter

**CCS 00706 COMMUNITY LIFE II LABORATORY 3 Credit Hours**

The student will create a portfolio of documents completed throughout the four year college experience that showcase accomplishments in domains of Wellness, Community Inclusion, and Career Preparation. The student will also create a Person-Centered Plan that is useful to achieving life goals after graduation.

**Prerequisite:** Career and Community Studies major, Career and Community Studies-College Preparation, or Career and Community Studies-Employment Readiness major.

**Corequisite:** CCS 00705.

**Schedule Type:** Laboratory

**Contact Hours:** 9 lab

**Grade Mode:** Standard Letter

**CCS 00792 SENIOR INTERNSHIP II 1-12 Credit Hours**

(Repeatable for credit) Internship courses are credit-bearing work experiences that are integrated with academic instruction and relate to an individual student's career goals. The internship occurs in a natural community setting and provides an environment and context to integrate specific career knowledge, skills, and professional behaviors.

**Prerequisite:** Career and Community Studies, Career Community Studies–College Preparation, Career Community Studies–Employment Readiness majors; and special approval.

**Schedule Type:** Practical Experience

**Contact Hours:** 3-36 other

**Grade Mode:** Standard Letter-IP

**CCS 00795 SPECIAL TOPICS 1-4 Credit Hours**

(Repeatable for credit) Course topic will vary depending upon individual career choices. The student will participate in courses with like-minded peers in order to gain knowledge and skills in the career field of interest. Students must get approval from their academic advisor and course faculty prior to taking this course.

**Prerequisite:** Career and Community Studies, Career Community Studies–College Preparation, Career Community Studies–Employment Readiness majors; and special approval.

**Schedule Type:** Laboratory, Lecture

**Contact Hours:** 1-4 lecture, 2-8 lab

**Grade Mode:** Satisfactory/Unsatisfactory

## Counselor Education and Supervision (CES)

**CES 20092 FIELD EXPERIENCE I: MIDDLE CHILDHOOD (ELR) 1 Credit Hour**

(Repeatable for credit) Course augments from an experiential perspective knowledge of early adolescence period of development. Placement in school settings (30 hrs.).

**Corequisite:** HDFS 24013.

**Schedule Type:** Field Experience

**Contact Hours:** 3 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**Attributes:** Experiential Learning Requirement

**CES 34650 PRACTICES AND THEORIES IN ADDICTIONS COUNSELING 3 Credit Hours**

Review of historical and contemporary theories and models of addiction (e.g., disease, behavioral, public health, family systems), as well as recommended practices in addictions counseling. Pharmacology and sociocultural factors emphasized. Implications for prevention, treatment, and policy are considered.

**Prerequisite:** CES 37662.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CES 34654 EVIDENCE-BASED APPROACHES IN ADDICTIONS COUNSELING 3 Credit Hours**

Intensive study of a select number of evidence-based or empirically-supported approaches in addictions counseling, including cognitive-behavioral and systems and family approaches. Didactic and experiential training methods used to promote practice with fidelity.

**Prerequisite:** CES 37665.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CES 37662 INTRODUCTION TO ADDICTIONS COUNSELING 3 Credit Hours**

Introduction to fundamental concepts and recommended practices in addictions counseling today, including pharmacology, screening and assessment, facilitating individual and group services, and ethical and legal considerations. Meets minimum training requirements for State of Ohio credentialing eligibility as a chemical dependency counselor assistant.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CES 37665 PLANNING CARE IN ADDICTIONS COUNSELING 3 Credit Hours**

Assessment and diagnosis of substance use disorders, and formulation of comprehensive and individualized care plans. Consideration of client dimensions and appropriate care levels, and emphasis on collaborative and coordinated care.

**Prerequisite:** CES 34650.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CES 37668 INTRODUCTION TO MOTIVATIONAL INTERVIEWING 3 Credit Hours**

Introduction to motivational interviewing (MI), a strengths-based and evidence-based practice designed to facilitate the self-directed and beneficial change of others in a variety of health behaviors. Practice of MI-consistent skills with immediate feedback, use of MI coding scheme to evaluate MI-consistency, and emphasis on continuous learning and skill-building.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CES 37692 ADDICTIONS COUNSELING PRACTICUM (ELR) 4-9 Credit Hours**

(Repeatable for credit) Field-based experiential training and supervised practice of addictions counseling with individual and group clients. Practicum site must be approved by CES program. Individual supervision must be supplied onsite (at location of practicum) by licensed behavioral health care provider approved by CES program. Six or seven class sessions per academic term that focus on theory- and training-to-practice implementation, professional role development, ensuring ethical practice, and self-care. Students are required to complete Bureau of Criminal Investigation and Identification (BCII) and Federal Bureau of Investigation (FBI) background checks and submit results to authorized personnel at practicum site prior to first day of academic term in which practicum will take place.

**Prerequisite:** CES 34654 or CES 37665.

**Schedule Type:** Lecture, Practical Experience

**Contact Hours:** 1 lecture, 21-56 other

**Grade Mode:** Standard Letter-IP

**Attributes:** Experiential Learning Requirement



**CES 37800 SMALL GROUP PROCESS 2 Credit Hours**

(Cross-listed with HED 34060) Students learn to understand the dynamics of problem-solving groups and how to become effective leaders and members. Topics include climate, goals, decision making, communication, leadership, membership. Experience-based learning combined with conceptualizing.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**CES 40093 VARIABLE TITLE WORKSHOP IN COUNSELOR EDUCATION AND SUPERVISION 1-4 Credit Hours**

(Repeatable for a maximum of 6 credit hours) Topics of special interest to students who desire to increase their knowledge in counseling and related areas. Kent faculty and experts from other institutions and agencies. Topics will be announced in the schedule of classes booklet.

**Prerequisite:** None.

**Schedule Type:** Workshop

**Contact Hours:** 1-4 other

**Grade Mode:** Satisfactory/Unsatisfactory

**CES 44084 BEHAVIORAL SCIENCE IN HEALTH PROFESSIONS 1-3 Credit Hours**

(Repeatable for a maximum of 12 hours) Behavioral science perspective on individual and social issues affecting medical care delivery. Individually arranged. May include field projects participation in health related investigations and presentations and personal development programs.

**Prerequisite:** Special approval.

**Schedule Type:** Lecture

**Contact Hours:** 1-3 lecture

**Grade Mode:** Standard Letter

**CES 50093 VARIABLE TITLE WORKSHOP IN COUNSELOR EDUCATION AND SUPERVISION 1-4 Credit Hours**

(Repeatable for credit) (Slashed with CES 70093) Workshops and training laboratories in various aspects of counseling, guidance and personnel services for counselors, supervisors, administrators and paraprofessionals. Prospective enrollees not currently admitted to graduate school may obtain special admission for graduate credit in a workshop. Topics are announced in brochures of college of continuing studies. Limit of 6 hours with adviser's permission toward any degree program.

**Prerequisite:** Graduate standing.

**Schedule Type:** Workshop

**Contact Hours:** 1-4 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**CES 60193 VARIABLE TITLE WORKSHOP IN CLINICAL REHABILITATION COUNSELING 1-4 Credit Hours**

(Repeatable for credit)(Slashed with CES 70193) Variable topic workshop designed to respond to emerging or specialized needs in clinical rehabilitation counseling.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Workshop

**Contact Hours:** 1-4 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**CES 60199 THESIS I 2-6 Credit Hours**

(Repeatable for credit) Thesis students must register for a total of 6 hours, 2 to 6 hours in a single semester distributed over several semesters if desired.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Masters Thesis

**Contact Hours:** 2-6 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**CES 60299 THESIS II 2 Credit Hours**

(Repeatable for credit) Thesis students must continue registration each semester until all degree requirements are met.

**Prerequisite:** CES 60199; and graduate standing.

**Schedule Type:** Masters Thesis

**Contact Hours:** 2 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**CES 64084 BEHAVIORAL SCIENCE IN THE HEALTH PROFESSIONS 1-3 Credit Hours**

Behavioral science perspective on individual and social issues that affect medical care delivery. Individually arranged.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 1-3 lecture

**Grade Mode:** Standard Letter-IP

**CES 65511 RESEARCH IN COUNSELING 3 Credit Hours**

Introduction to purposes and practice of qualitative and quantitative research related to counseling. There will be emphasis on elements of conducting research and using products of research to support and enhance practice. Authentic examples from counseling will be used as illustration.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CES 67492 PRACTICUM I: CLINICAL MENTAL HEALTH COUNSELING 3 Credit Hours**

Students begin supervised practice of counseling with clients, primarily in The Counseling Center. Individual supervision and seminar discussion are used for the development of counseling skills, strategies and professional role.

**Prerequisite:** CES 67530 and CES 67531 and CES 67580 and CES 67663 and CES 67820 and CES 68126; and Clinical Mental Health Counseling major; and graduate standing.

**Schedule Type:** Practical Experience

**Contact Hours:** 16 other

**Grade Mode:** Standard Letter

**CES 67530 COUNSELING THEORIES 3 Credit Hours**

(Slashed with CES 77530) A survey of counseling practice that examines the nature of counseling process and relationships as described from major theoretical perspectives.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CES 67531 COUNSELING SKILLS AND TECHNIQUES 3 Credit Hours**

(Slashed with CES 77531) Didactic and experiential training in basic interviewing and counseling techniques prepares the student for practicum through role playing, videotaped feedback and simulation.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CES 67580 MULTICULTURAL COUNSELING 3 Credit Hours**

(Slashed with CES 77580) Seminar focused on sensitivities needed to work effectively with diverse clients. Consideration given to racism, oppression, poverty, ageism, gender, and relational affinity.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CES 67591 SEMINAR IN COUNSELOR EDUCATION AND SUPERVISION 1-3 Credit Hours**

(Repeatable for credit) Variable topic seminars considering problems, research and current practices for counselors and personnel workers. Topic to be announced in schedule of classes booklet.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Seminar

**Contact Hours:** 1-3 other

**Grade Mode:** Standard Letter

**CES 67592 PRACTICUM II: CLINICAL MENTAL HEALTH COUNSELING 3 Credit Hours**

(Repeatable for credit) (Slashed with CES 77592) Involves individual counseling and group work with appropriate populations. Caseload geared toward preparation for internship.

**Prerequisite:** CES 67492 and CES 67628 or 77628; and graduate standing.

**Schedule Type:** Practical Experience

**Contact Hours:** 16 other

**Grade Mode:** Standard Letter

**CES 67595 SPECIAL TOPICS IN COUNSELOR EDUCATION AND SUPERVISION 1-3 Credit Hours**

(Repeatable for credit) (Slashed with CES 87595) Presentation of topics of special interest to students in counselor education and supervision. Offered irregularly. Topics will be announced in schedule of classes booklet.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 1-3 lecture

**Grade Mode:** Standard Letter

**CES 67596 INDIVIDUAL INVESTIGATION IN COUNSELOR EDUCATION AND SUPERVISION 1-3 Credit Hours**

(Repeatable for credit) (Slashed with CES 87596) Student investigates one or more topics in counseling under supervision. Review selected literature beyond normal course coverage. Arrangements with instructor must be made prior to registration.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Individual Investigation

**Contact Hours:** 1-3 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**CES 67628 DIAGNOSIS IN COUNSELING 3 Credit Hours**

(Slashed with CHDS 77628) To develop diagnostic skills in interviewing and use of appropriate nosology in counseling diagnosis.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CES 67662 FOUNDATIONS OF ADDICTIONS COUNSELING 3 Credit Hours**

(Slashed with CES 77662) Introduction to fundamental concepts and recommended practices in addictions counseling, including pharmacology, screening and assessment, facilitating individual and group services, and ethical and legal considerations. Meets minimum training requirements for State of Ohio credentialing eligibility as a chemical dependency counselor assistant.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CES 67663 ORIENTATION AND ETHICS: CLINICAL MENTAL HEALTH COUNSELING 3 Credit Hours**

(Slashed with CES 77663) Attention is given to the identity, ethics, professional standards and organizations, and employment settings of the clinical mental health counselor. Models of problem definition, administrative structure and service delivery are explored.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CES 67664 THEORIES AND PRACTICES IN ADDICTIONS COUNSELING 3 Credit Hours**

(Slashed with CES 77664) Review of historical and contemporary theories and models of addiction (e.g., disease, behavioral, public health, family systems), as well as recommended practices in addictions counseling. Pharmacology and sociocultural factors emphasized. Implications for prevention, treatment, and policy are considered.

**Prerequisite:** CES 67662; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CES 67665 TREATMENT PLANNING IN ADDICTIONS COUNSELING 3 Credit Hours**

(Slashed with CES 77665) Assessment and diagnosis of substance use disorders, and formulation of comprehensive and individualized care plans. Consideration of client dimensions and appropriate care levels, and emphasis on collaborative, coordinated, and ethical care.

**Prerequisite:** CES 67664; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CES 67666 EVIDENCE-BASED PRACTICES IN ADDICTIONS COUNSELING 3 Credit Hours**

(Slashed with CES 77666) Intensive study of a select number of evidence-based practices (EBPs) in addictions counseling for individuals, groups, and families, including cognitive-behavioral and systems and family approaches. Didactic and experiential training methods used to promote practice with fidelity.

**Prerequisite:** CES 67665; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CES 67668 MOTIVATIONAL INTERVIEWING 3 Credit Hours**

(Slashed with CES 77668) Introduction to motivational interviewing (MI), a strengths-based evidence-based practice designed to facilitate the self-directed and beneficial change of others in a variety of health behaviors. Practice of MI-consistent skills with immediate feedback, use of MI coding scheme to evaluate MI-consistency, and emphasis on continuous learning and skill-building.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CES 67692 PRACTICUM IN ADDICTIONS COUNSELING 3-6 Credit Hours**

(Slashed with CES 77692) Field-based experiential training and supervised practice of addictions counseling with individual and group clients. Practicum site must be approved by CES program. Individual supervision must be supplied onsite (at location of practicum) by licensed behavioral health care provider approved by CES program. Six to seven class sessions per academic term that focus on theory- and training-to-practice implementation, professional role development, ensuring ethical practice, and counselor self-care. Students are required to complete Bureau of Criminal Investigation and Identification (BCII) and Federal Bureau of Investigation (FBI) background checks and submit results to authorized personnel at practicum site prior to first day of academic term in which practicum will take place.

**Prerequisite:** CES 67665 or CES 67666; and graduate standing.

**Schedule Type:** Lecture, Practical Experience

**Contact Hours:** 1 lecture, 14-35 other

**Grade Mode:** Standard Letter-IP

**CES 67695 SPECIAL TOPICS IN CLINICAL MENTAL HEALTH COUNSELING 1-3 Credit Hours**

(Repeatable for credit) (Slashed with CES 77695) Presentations of special interest to students. Offered irregularly. Topics will be announced in schedule of classes booklet.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 1-3 lecture

**Grade Mode:** Standard Letter

**CES 67698 INDIVIDUAL RESEARCH IN CLINICAL MENTAL HEALTH COUNSELING 1-9 Credit Hours**

(Repeatable for credit) Student pursues research project on selected aspect of clinical mental health counseling under supervision of instructor. Arrangements with instructor must be made prior to registration. Credit hours to be fixed at registration time.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Research

**Contact Hours:** 1-9 other

**Grade Mode:** Satisfactory/Unsatisfactory

**CES 67712 ORIENTATION AND ETHICS: CLINICAL REHABILITATION COUNSELING 3 Credit Hours**

(Slashed with CES 77712) Introductory course surveys philosophy, history and legislation in rehabilitation, which is defined as a process, social movement and public mandate. Particular emphasis is given to the role and function of the rehabilitation counselor in the private and public sectors.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CES 67723 MEDICAL INFORMATION FOR CLINICAL REHABILITATION COUNSELORS 3 Credit Hours**

(Slashed with CES 77723) Study of the physical impact of disease or injury on individuals; available medical and restorative resources skills in interpreting medical reports and rehabilitation planning.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CES 67725 PSYCHOSOCIAL IMPACT OF DISABILITY 3 Credit Hours**

(Slashed with CES 77725) Introduction to major concepts in rehabilitation regarding the impact of disability on the individual, the family and the community. Normalization stigma and adjustment to loss emphasized.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CES 67732 OCCUPATIONAL ASPECTS OF DISABILITY 3 Credit Hours**

(Slashed with CES 77732) An introduction to a wide range of occupational and vocational analysis through job analysis, job seeking, job placement, job restructuring, work adjustment and independent living approaches.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CES 67776 RESEARCH IN CLINICAL REHABILITATION COUNSELING 3 Credit Hours**

(Slashed with CES 77776) Survey of the research literature in disabilities. Guidelines for evaluating and implementing research findings. Course acquaints students with current research. Evaluation of design statistical analysis and conclusions.

**Prerequisite:** Graduate standing.

**Schedule Type:** Seminar

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**CES 67792 INTERNSHIP I: CLINICAL MENTAL HEALTH COUNSELING 3 Credit Hours**

(Repeatable for credit) Assignment to a mental health agency, private practice, etc. for extensive and intensive applications of clinical mental health counseling. The scope of practice for this internship is diagnosis and treatment of mental and emotional disorders.

**Prerequisite:** Clinical Mental Health Counseling major; and graduate standing; and special approval.

**Schedule Type:** Lecture, Practical Experience

**Contact Hours:** 3 lecture, 20 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**CES 67795 SPECIAL TOPICS IN CLINICAL REHABILITATION COUNSELING 1-3 Credit Hours**

(Repeatable for credit)(Slashed with CES 77795) Presentation of special interest to students. Topics vary per course offering.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 1-3 lecture

**Grade Mode:** Standard Letter

**CES 67796 INDIVIDUAL INVESTIGATION IN CLINICAL REHABILITATION COUNSELING 1-3 Credit Hours**

(Repeatable for credit) Independent reading and/or research directed by a graduate faculty member.

**Prerequisite:** Graduate standing.

**Schedule Type:** Individual Investigation

**Contact Hours:** 3-9 other

**Grade Mode:** Standard Letter-IP

**CES 67798 INDIVIDUAL RESEARCH IN CLINICAL REHABILITATION COUNSELING 1-6 Credit Hours**

(Repeatable for credit) Research project on an aspect of rehabilitation under supervision of an instructor. Students must make arrangements with the instructor prior to registration.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Research

**Contact Hours:** 3-18 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**CES 67820 GROUP WORK: THEORY AND TECHNIQUES 3 Credit Hours**

(Slashed with CES 77820) This is an experiential and didactic course designed to provide both an overview of groups and a basic group experience. Involvement in a group is part of this course as is practice of group leadership skills.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CES 67858 SEMINAR: GROUP COUNSELING 2 Credit Hours**

(Slashed with CES 77858) Study and experience of various theoretical and methodological and practical approaches to group counseling. Includes experience as counselor and participant in peer counseling group.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Seminar

**Contact Hours:** 2 other

**Grade Mode:** Standard Letter

**CES 67892 INTERNSHIP II: CLINICAL MENTAL HEALTH COUNSELING 3 Credit Hours**

(Repeatable for credit) Assignment to a mental health agency, private practice, etc. for extensive and intensive applications of clinical mental health counseling. The scope of practice for this internship is diagnosis and treatment of mental and emotional disorders.

**Prerequisite:** Clinical Mental Health Counseling major; and graduate standing; and special approval.

**Schedule Type:** Lecture, Practical Experience

**Contact Hours:** 3 lecture, 20 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**CES 68011 FOUNDATIONS OF SCHOOL COUNSELING 3 Credit Hours**

(Slashed with CES 78011) Foundation course in school counseling. Focuses on the professional identity of school counselors and other pupil service personnel and on the development of comprehensive school counseling programs.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CES 68066 COUNSELING ADOLESCENTS 3 Credit Hours**

(Slashed with CES 78066) A didactic and experiential seminar focusing on adolescents frequently referred to counselors. Counseling procedures, treatment plans and referral procedures for youth will be covered.

**Prerequisite:** CES 67530 and 67531; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CES 68067 COUNSELING CHILDREN 3 Credit Hours**

(Slashed with CES 78067) Seminar focusing on intra and interpersonal dynamics of children referred for treatment to counselors. Designed to supplement individual and group counseling skills with play media.

**Prerequisite:** CES 67530 or 77530 and 67531 or 77531; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CES 68068 SCHOOL COUNSELING PROGRAM MANAGEMENT AND LEADERSHIP 3 Credit Hours**

(Slashed with CES 78068) Focuses on the management, leadership and implementation of comprehensive school counseling program including developmental counseling approaches, management systems and outcome research.

**Prerequisite:** CES 68011; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CES 68069 ORIENTATION AND ETHICS: SCHOOL COUNSELING 3 Credit Hours**

(Slashed with CES 78069) Consideration given to issues that provide an orientation to school counseling. Examples of these issues include professional preparation standards, roles and functions of school counselors, and ethical standards and legal issues.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CES 68095 SPECIAL TOPICS IN SCHOOL COUNSELING 1-3 Credit Hours**

(Repeatable for credit) Presentations of special interest to students. Offered irregularly. Topics will be announced in schedule of classes booklet.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 1-3 lecture

**Grade Mode:** Standard Letter



**CES 68126 INTRODUCTION TO ASSESSMENT IN COUNSELING 3 Credit Hours**

(Slashed with CES 78126) Instruction and experience in utilizing observational, measurement and appraisal methods and instruments relevant to clinical mental health counseling and school counseling settings. Measurement theory and concepts related to the appraisal process are presented.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CES 68128 CLINICAL ASSESSMENT IN COUNSELING 3 Credit Hours**

(Slashed with CES 78128) Experience in selecting, administering and interpreting measures of personality and motivation. Primary attention will be placed on measures of psychopathology.

**Prerequisite:** CES 68126 and 67628; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CES 68130 PSYCHOPATHOLOGY FOR COUNSELORS 3 Credit Hours**

(Slashed with CES 78130) This course covers the etiology and treatment of various disorders covered in the current DSM system. Assessment, treatment and psychopharmacological aspects of treatment are considered.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CES 68167 CASE CONCEPTUALIZATION AND TREATMENT PLANNING 3 Credit Hours**

(Slashed with CES 88167) Development of understanding of more in-depth and complex counseling processes, case conceptualization and treatment planning, and advanced skills for intervention. Didactic and role-playing methods will be used.

**Prerequisite:** CES 67628 and CES 67492; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CES 68168 ADVANCED COUNSELING THEORIES 3 Credit Hours**

(Repeatable twice for credit) (Slashed with CES 88168) Consideration in depth of major counseling theories, with special emphasis on comparative analysis. Original readings used.

**Prerequisite:** CES 67492 with a minimum S grade; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CES 68182 CAREER COUNSELING 3 Credit Hours**

(Slashed with CES 78182) The world of work, theories of career choice, techniques in career counseling. An introductory course in the career area for practitioners in education, helping services, human resources and personnel.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CES 68192 INTERNSHIP I: SCHOOL COUNSELING 3 Credit Hours**

(Repeatable for credit) Assignment to a school for extensive and intensive applications appropriate for school counseling. A focus on the implementation of advocacy, leadership, collaboration, and systemic change is highlighted. This course meets specific CACREP standards.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Lecture, Practical Experience

**Contact Hours:** 3 lecture, 20 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**CES 68284 SUPERVISION OF COUNSELING 3 Credit Hours**

(Repeatable twice for credit) (Slashed with CES 88284) Focuses on supervisory processes in terms of theoretical perspectives and practices of supervision. Reviews relevant literature related to the roles, functions and settings of clinical supervisor. Includes supervisory experiences.

**Prerequisite:** CES 67592 or 77592 with a minimum S grade; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CES 68292 INTERNSHIP II: SCHOOL COUNSELING 3 Credit Hours**

(Repeatable for credit) Assignment to a school for extensive and intensive applications appropriate for school counseling. A focus on the application of advocacy, leadership, collaboration and systemic change are highlighted in this course. This course meets specific CACREP standards.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Lecture, Practical Experience

**Contact Hours:** 2 lecture, 20 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**CES 68392 SCHOOL COUNSELING PRACTICUM 3 Credit Hours**

Students begin supervised practice of counseling with clients, primarily in a K-12 school. Direct observation, audio video recording, individual supervision, and seminar discussion are used for the development of counseling skills, strategies, and professional role. Students are required to complete Bureau of Criminal Investigation and Identification (BCII) and Federal Bureau of Investigation (FBI) background checks and submit the results to authorized personnel at their assigned school-agency before the first day of the semester in which the practicum will take place.

**Prerequisite:** CES 67530 and CES 67531 and CES 67820 and CES 68069; and graduate standing.

**Schedule Type:** Practical Experience

**Contact Hours:** 20 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**CES 68529 COUPLES THERAPY:THEORY AND TECHNIQUES 3 Credit Hours**

(Slashed with CES 78529) Study of selected couples therapy theories. Focus on concepts and techniques and their application in the therapeutic setting.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter



**CES 68533 FAMILY THERAPY: THEORY AND TECHNIQUES 3 Credit Hours**

(Slashed with CES 78533) Explores systemic family therapy utilizing various philosophical orientations, theoretical concepts and techniques in a didactic experiential and applied atmosphere.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CES 68538 ADVANCED MULTICULTURAL COUNSELING 3 Credit Hours**

(Slashed with CES 78538) This course is designed to assist helping professionals in enhancing the knowledge and skill components of multicultural counseling. Cultural and multicultural counseling experiences with constructive feedback are provided.

**Prerequisite:** CES 67580 or CES 77580 and CES 67531 or CES 77531; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CES 69192 PRACTICUM II: CLINICAL REHABILITATION COUNSELING 3 Credit Hours**

Supervised, controlled exposure to rehabilitation clients; examine alternative modes of intervention; group and individual feedback sessions using audio and videotape recordings.

**Prerequisite:** CES 67492 and CES 67628 and CES 67725; and graduate standing.

**Schedule Type:** Practical Experience

**Contact Hours:** 16 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**CES 69792 INTERNSHIP IN CLINICAL REHABILITATION COUNSELING 6 Credit Hours**

(Repeatable for credit) Assignment to rehabilitation agency for extensive and intensive applications appropriate for rehabilitation counseling, consulting and coordinating. Supervision of internships shared jointly by rehabilitation agency and university instructor.

**Prerequisite:** CES 69192; and graduate standing.

**Schedule Type:** Practical Experience

**Contact Hours:** 43 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**CES 70093 VARIABLE TITLE WORKSHOP IN COUNSELOR EDUCATION AND SUPERVISION 1-4 Credit Hours**

(Repeatable for credit) (Slashed with CES 50093) Workshops and training laboratories in various aspects of counseling, guidance and personnel services for counselors, supervisors, administrators and paraprofessionals. Prospective enrollees not currently admitted to graduate school may obtain special admission for graduate credit in a workshop. Topics are announced in brochures of College of Continuing Studies. Limit of 6 hours with adviser's permission toward any degree program.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Workshop

**Contact Hours:** 1-4 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**CES 70193 VARIABLE TITLE WORKSHOP IN CLINICAL REHABILITATION COUNSELING 1-4 Credit Hours**

(Repeatable for credit)(Slashed with CES 60193) Variable topic workshop designed to respond to emerging or specialized needs in clinical rehabilitation counseling.

**Prerequisite:** Doctoral standing; and special approval.

**Schedule Type:** Workshop

**Contact Hours:** 1-4 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**CES 77530 COUNSELING THEORIES 3 Credit Hours**

(Slashed with CES 67530) A survey of counseling practice that examines the nature of counseling process and relationships as described from major theoretical perspectives.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CES 77531 COUNSELING SKILLS AND TECHNIQUES 3 Credit Hours**

(Slashed with CES 67531) Didactic and experiential training in basic interviewing and counseling techniques prepares the student for practicum through role playing, videotaped feedback and simulation.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CES 77580 MULTICULTURAL COUNSELING 3 Credit Hours**

(Slashed with CES 67580) Seminar focused on sensitivities needed to work effectively with diverse clients. Consideration given to racism, oppression, poverty, ageism, gender and relational affinity.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CES 77584 WRITING FOR PROFESSIONAL PUBLICATIONS 3 Credit Hours**

Seminar experience designed to prepare professionals to publish research findings, conceptualizations and professional field experiences in refereed journals and books. Elements of grant writing also treated.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CES 77592 PRACTICUM II: CLINICAL MENTAL HEALTH COUNSELING 3 Credit Hours**

(Repeatable for credit) (Slashed with CES 67592) Involves individual counseling and group work with appropriate populations. Caseload geared toward preparation for internship. Controlled registration.

**Prerequisite:** CES 77628; and doctoral standing.

**Schedule Type:** Practical Experience

**Contact Hours:** 16 other

**Grade Mode:** Standard Letter

**CES 77628 DIAGNOSIS IN COUNSELING 3 Credit Hours**

(Slashed with CES 67628) To develop diagnostic skills in interviewing and use of appropriate nosology in counseling diagnosis.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CES 77662 FOUNDATIONS OF ADDICTIONS COUNSELING 3 Credit Hours**

(Slashed with CES 67662) Introduction to fundamental concepts and recommended practices in addictions counseling, including pharmacology, screening and assessment, facilitating individual and group services, and ethical and legal considerations. Meets minimum training requirements for State of Ohio credentialing eligibility as a chemical dependency counselor assistant.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CES 77663 ORIENTATION AND ETHICS: CLINICAL MENTAL HEALTH COUNSELING 3 Credit Hours**

(Slashed with CES 67663) Attention is given to the identity, ethics, professional standards and organizations and employment settings of the clinical mental health counselor. Models of problem definition, administrative structure and service delivery are explored.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CES 77664 THEORIES AND PRACTICES IN ADDICTIONS COUNSELING 3 Credit Hours**

(Slashed with CES 77664) Review of historical and contemporary theories and models of addiction (e.g., disease, behavioral, public health, family systems), as well as recommended practices in addictions counseling. Pharmacology and sociocultural factors emphasized. Implications for prevention, treatment, and policy are considered.

**Prerequisite:** CES 67662 or CES 77662; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CES 77665 TREATMENT PLANNING IN ADDICTIONS COUNSELING 3 Credit Hours**

(Slashed with CES 67665) Assessment and diagnosis of substance use disorders, and formulation of comprehensive and individualized care plans. Consideration of client dimensions and appropriate care levels, and emphasis on collaborative, coordinated, and ethical care.

**Prerequisite:** CES 67664 or CES 77664; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CES 77666 EVIDENCE-BASED PRACTICES IN ADDICTIONS COUNSELING 3 Credit Hours**

(Slashed with CES 67666) Intensive study of a select number of evidence-based practices (EBPs) in addictions counseling for individuals, groups, and families, including cognitive-behavioral and systems and family approaches. Didactic and experiential training methods used to promote practice with fidelity.

**Prerequisite:** CES 77665; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CES 77668 MOTIVATIONAL INTERVIEWING 3 Credit Hours**

(Slashed with CES 67668) Introduction to motivational interviewing (MI), a strengths-based evidence-based practice designed to facilitate the self-directed and beneficial change of others in a variety of health behaviors. Practice of MI-consistent skills with immediate feedback, use of MI coding scheme to evaluate MI-consistency, and emphasis on continuous learning and skill-building.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CES 77692 PRACTICUM IN ADDICTIONS COUNSELING 3-6 Credit Hours**

(Slashed with CES 67692) Field-based experiential training and supervised practice of addictions counseling with individual and group clients. Practicum site must be approved by CES program. Individual supervision must be supplied onsite (at location of practicum) by licensed behavioral health care provider approved by CES program. Six to seven class sessions per academic term that focus on theory- and training-to-practice implementation, professional role development, ensuring ethical practice, and counselor self-care. Students are required to complete Bureau of Criminal Investigation and Identification (BCII) and Federal Bureau of Investigation (FBI) background checks and submit results to authorized personnel at practicum site prior to first day of academic term in which practicum will take place.

**Prerequisite:** CES 67665 or CES 77665 or CES 67666 or CES 77666; and doctoral standing; and special approval.

**Schedule Type:** Lecture, Practical Experience

**Contact Hours:** 1 lecture, 14-35 other

**Grade Mode:** Standard Letter-IP

**CES 77695 SPECIAL TOPICS IN CLINICAL MENTAL HEALTH COUNSELING 1-3 Credit Hours**

(Repeatable for credit) (Slashed with CES 67695) Presentations of special interest to students. Offered irregularly. Topics will be announced in schedule of classes booklet.

**Prerequisite:** Doctoral standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 1-3 lecture

**Grade Mode:** Standard Letter

**CES 77712 ORIENTATION AND ETHICS: CLINICAL REHABILITATION COUNSELING 3 Credit Hours**

(Slashed with CES 67712) Introductory course surveys philosophy, history and legislation in rehabilitation, which is defined as a process, social movement and public mandate. Particular emphasis is given to the role and function of the rehabilitation counselor in the private and public sectors.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CES 77723 MEDICAL INFORMATION FOR CLINICAL REHABILITATION COUNSELORS 3 Credit Hours**

(Slashed with CES 67723) Study of the physical impact of disease or injury on individuals; available medical and restorative resources skills in interpreting medical reports and rehabilitation planning.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CES 77725 PSYCHOSOCIAL IMPACT OF DISABILITY 3 Credit Hours**  
(Slashed with CES 67725) Introduction to major concepts in rehabilitation regarding the impact of disability on the individual, the family and the community. Normalization stigma and adjustment to loss emphasized.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CES 77732 OCCUPATIONAL ASPECTS OF DISABILITY 3 Credit Hours**  
(Slashed with CES 67732) An introduction to a wide range of occupational and vocational analysis through job analysis, job seeking, job placement, job restructuring, work adjustment and independent living approaches.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CES 77776 RESEARCH IN CLINICAL REHABILITATION COUNSELING 3 Credit Hours**

(Slashed with CES 67776) Survey of the research literature in disabilities. Guidelines for evaluating and implementing research findings. Course acquaints students with current research. Evaluation of design statistical analysis and conclusions.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Seminar

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**CES 77795 SPECIAL TOPICS IN CLINICAL REHABILITATION COUNSELING 1-3 Credit Hours**

(Repeatable for credit)(Slashed with CES 67795) Presentation of special interest to students. Topics vary per course offering.

**Prerequisite:** Doctoral standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 1-3 lecture

**Grade Mode:** Standard Letter

**CES 77796 INDIVIDUAL INVESTIGATION IN CLINICAL REHABILITATION COUNSELING 1-3 Credit Hours**

(Repeatable for credit) Independent reading and/or research directed by a graduate faculty member.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Individual Investigation

**Contact Hours:** 1-3 other

**Grade Mode:** Standard Letter-IP

**CES 77798 INDIVIDUAL RESEARCH IN CLINICAL REHABILITATION COUNSELING 1-6 Credit Hours**

(Repeatable for credit) Research project on an aspect of rehabilitation under supervision of an instructor. Students must make arrangements with the instructor prior to registration.

**Prerequisite:** Doctoral standing; and special approval.

**Schedule Type:** Research

**Contact Hours:** 3-18 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**CES 77820 GROUP WORK: THEORY AND TECHNIQUES 3 Credit Hours**

(Slashed with CES 67820) This is an experiential and didactic course designed to provide both an overview of groups and a basic group experience. Involvement in a group is part of this course as is practice of group leadership skills.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CES 77858 SEMINAR: GROUP COUNSELING 2 Credit Hours**

(Slashed with CES 67858) Study and experience of various theoretical and methodological and practical approaches to group counseling. Includes experience as counselor and participant in peer counseling group.

**Prerequisite:** Doctoral standing; and special approval.

**Schedule Type:** Seminar

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**CES 78011 FOUNDATIONS OF SCHOOL COUNSELING 3 Credit Hours**

(Slashed with CES 68011) Foundation course in school counseling. Focuses on the professional identity of school counselors and other pupil service personnel and on the development of comprehensive school counseling program.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CES 78066 COUNSELING ADOLESCENTS 3 Credit Hours**

(Slashed with CES 68066) A didactic and experiential seminar focusing on adolescents frequently referred to counselors. Counseling procedures, treatment plans and referral procedures for youth will be covered.

**Prerequisite:** CES 67530 or CES 77530 and CES 67531 or CES 77531; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CES 78067 COUNSELING CHILDREN 3 Credit Hours**

(Slashed with CES 68067) Seminar focusing on intra and interpersonal dynamics of children referred for treatment to counselors. Designed to supplement individual and group counseling skills with play media.

**Prerequisite:** CES 67530 or CES 77530 and CES 67531 or CES 77531; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CES 78068 SCHOOL COUNSELING PROGRAM MANAGEMENT AND LEADERSHIP 3 Credit Hours**

(Slashed with CES 68068) Focuses on the management, leadership and implementation of comprehensive school counseling program including developmental counseling approaches, management systems and outcome research.

**Prerequisite:** CES 68011 or CES 78011; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CES 78069 ORIENTATION AND ETHICS: SCHOOL COUNSELING 3 Credit Hours**

(Slashed with CES 68069) Consideration given to issues that provide an orientation to school counseling. Examples of these issues include professional preparation standards roles and functions of school counselors and ethical standards and legal issues.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CES 78126 INTRODUCTION TO ASSESSMENT IN COUNSELING 3 Credit Hours**

(Slashed with CES 68126) Instruction and experience in utilizing observational, measurement and appraisal methods and instruments relevant to clinical mental health counseling and school counseling settings. Measurement theory and concepts related to the appraisal process are presented.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CES 78128 CLINICAL ASSESSMENT IN COUNSELING 3 Credit Hours**

(Slashed with CES 68128) A laboratory experience in selecting, administering and interpreting measures of personality and motivation. Primary attention will be placed on measures of psychopathology.

**Prerequisite:** CES 68126 or CES 78126; and CES 67628 or CES 77628; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CES 78130 PSYCHOPATHOLOGY FOR COUNSELORS 3 Credit Hours**

(Slashed with CES 68130) This course covers the etiology and treatment of various disorders covered in the current DSM system. Assessment, treatment, and psychopharmacological aspects of treatment are considered.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CES 78182 CAREER COUNSELING 3 Credit Hours**

(Slashed with CES 68182) The world of work, theories of career choice, techniques in career counseling. An introductory course in the career area for practitioners in education, helping services, human resources and personnel.

**Prerequisite:** Doctoral standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CES 78529 COUPLES THERAPY:THEORY AND TECHNIQUES 3 Credit Hours**

(Slashed with CES 68529) Study of selected couples therapy theories. Focus on concepts and techniques and their application in the therapeutic setting.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CES 78533 FAMILY THERAPY: THEORY AND TECHNIQUES 3 Credit Hours**

(Slashed with CES 68533) Explores systemic family therapy utilizing various philosophical orientations, theoretical concepts and techniques in a didactic experiential and applied atmosphere.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CES 78538 ADVANCED MULTICULTURAL COUNSELING 3 Credit Hours**

(Slashed with CES 68538) This course is designed to assist helping professionals in enhancing the knowledge and skill components of multicultural counseling. Cultural and multicultural counseling experiences with constructive feedback are provided.

**Prerequisite:** CES 67580 or CES 77580; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CES 78592 PRACTICUM IN COUPLES AND FAMILY THERAPY 3 Credit Hours**

(Repeatable for credit) Supervised experience in the practice of couples and family counseling. Students meet for individual supervision and seminar groups to assess their effectiveness in helping relationships.

**Prerequisite:** Doctoral standing in Counselor Education and Supervision major; and special approval.

**Schedule Type:** Practical Experience

**Contact Hours:** 14 other

**Grade Mode:** Standard Letter

**CES 79192 PRACTICUM II: CLINICAL REHABILITATION COUNSELING 3 Credit Hours**

Supervised, controlled exposure to rehabilitation clients; examine alternative modes of intervention; group and individual feedback sessions using audio and videotape recordings.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Practical Experience

**Contact Hours:** 16 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**CES 79792 INTERNSHIP IN CLINICAL REHABILITATION COUNSELING 6 Credit Hours**

(Repeatable for credit) Assignment to rehabilitation agency for extensive and intensive applications appropriate for rehabilitation counseling, consulting and coordinating. Supervision of internships shared jointly by rehabilitation agency and university instructor.

**Prerequisite:** CES 69192 or CES 79192; and doctoral standing.

**Schedule Type:** Practical Experience

**Contact Hours:** 43 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**CES 80090 DOCTORAL RESIDENCY SEMINAR IN COUNSELOR EDUCATION AND SUPERVISION 3 Credit Hours**

Focus on professional identity, current issues and trends and involvement in professional activities.

**Prerequisite:** Doctoral standing in Counselor Education and Supervision major.

**Schedule Type:** Seminar

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter



**CES 80199 DISSERTATION I 15 Credit Hours**

(Repeatable for credit) Doctoral candidates work on dissertation research in consultation with their advisors. Doctoral candidates will register for two consecutive semesters of CES 80199 Dissertation I for 15 hours each semester, immediately following successful completion of doctoral comprehensive exams. Thereafter, students will register for CES 80299 Dissertation II each semester, including summer, until all degree requirements have been met.

**Prerequisite:** Doctoral standing; and special approval.

**Schedule Type:** Dissertation

**Contact Hours:** 15 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**CES 80200 FUNDAMENTALS OF WRITING AND RESEARCH IN COUNSELOR EDUCATION AND SUPERVISION 3 Credit Hours**

Didactic and experiential training in the fundamentals of academic or scholarly writing and research in the counseling profession. Emphasis on reading practices; elements, principles, and processes of academic or scholarly writing; and generativity and systematic methodology in applied research in counseling and counselor education and supervision.

**Prerequisite:** Doctoral standing in the Counselor Education and Supervision major.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CES 80299 DISSERTATION II 15 Credit Hours**

(Repeatable for credit) Continuing registration required of doctoral students who have completed the initial 30 hours of Dissertation I and continuing until all degree requirements are met. Satisfactory/unsatisfactory (S/U) graded. In-progress (IP) mark permissible.

**Prerequisite:** CES 80199; and doctoral standing.

**Schedule Type:** Dissertation

**Contact Hours:** 15 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**CES 80300 LEADERSHIP AND ADVOCACY IN COUNSELOR EDUCATION AND SUPERVISION 3 Credit Hours**

This course is designed to assist doctoral level CES students to become knowledgeable and skillful professionals in leadership and advocacy efforts. Students will learn aspects of leadership and advocacy, such as applications in various settings and with diverse populations, to enable them to develop ethical and culturally relevant practices. Students must have completed one semester in the Counselor Education and Supervision doctoral program to enroll in this course.

**Prerequisite:** Doctoral standing in the Counselor Education and Supervision major.

**Schedule Type:** Seminar

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**CES 87392 ADVANCED INDIVIDUAL COUNSELING PRACTICUM 3 Credit Hours**

(Repeatable for credit) Supervised experience in counseling. Students meet for individual supervision and in seminar groups to assess their effectiveness in helping relationships.

**Prerequisite:** Doctoral standing in the Counselor Education and Supervision major.

**Schedule Type:** Practical Experience

**Contact Hours:** 14 other

**Grade Mode:** Standard Letter

**CES 87595 SPECIAL TOPICS IN COUNSELOR EDUCATION AND SUPERVISION 1-3 Credit Hours**

(Repeatable for credit) Presentation of topics of special interest to students in counselor education and supervision. Offered irregularly. Topics will be announced in schedule of classes booklet.

**Prerequisite:** Doctoral standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 1-3 lecture

**Grade Mode:** Standard Letter

**CES 87596 INDIV INVEST IN CES 1-3 Credit Hours**

(Repeatable for credit) (Slashed with CES 67596) Student investigates one or more topics in counseling under supervision. Review selected literature beyond normal course coverage. Arrangements with instructor must be made prior to registration.

**Prerequisite:** Doctoral standing; and special approval.

**Schedule Type:** Individual Investigation

**Contact Hours:** 1-3 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**CES 88167 CASE CONCEPTUALIZATION AND TREATMENT PLANNING 3 Credit Hours**

(Slashed with CES 68167) Development of understanding of more in-depth and complex counseling processes, case conceptualization and treatment planning, and advanced skills for intervention. Didactic and role-playing methods will be used.

**Prerequisite:** CES 67628 or CES 77628; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CES 88168 ADVANCED COUNSELING THEORIES 3 Credit Hours**

(Repeatable twice for credit) (Slashed with CES 68168) Consideration in depth of major counseling theories, with special emphasis on comparative analysis. Original readings used.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CES 88281 RESEARCH SEMINAR IN COUNSELOR EDUCATION AND SUPERVISION 3 Credit Hours**

Topics or problems of current concern in counselor education and supervision services. Review of significant studies, design strategies, instrumentation, data analysis and research issues. Topic to be announced in schedule of classes booklet.

**Prerequisite:** CES 80200, EVAL 75510, EVAL 85515 and EVAL 85516; and doctoral standing.

**Schedule Type:** Seminar

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**CES 88284 SUPERVISION OF COUNSELING 3 Credit Hours**

(Repeatable twice for credit) (Slashed with CES 68284) This seminar focuses on supervisory processes in terms of theoretical perspectives and practices of supervision. Reviews relevant literature related to the roles, functions and settings of clinical supervisor. Includes supervisory experiences.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter



**CES 88292 INTERNSHIP IN COUNSELOR EDUCATION AND SUPERVISION 3-6 Credit Hours**

(Repeatable for credit) Opportunity to integrate learning and skills in Counseling, Teaching, Research and Scholarship, Leadership, and Supervision. Each experience requires supervision. Completion of program course requirements is necessary prior to registration.

**Prerequisite:** Doctoral standing; and special approval.

**Schedule Type:** Practical Experience, Seminar

**Contact Hours:** 23-46 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**CES 88294 COLLEGE TEACHING IN COUNSELOR EDUCATION AND SUPERVISION 3 Credit Hours**

(Repeatable for credit) Application of planning, instructional and evaluation skills. Doctoral students lead skill training groups, lecture a large class and guide group discussion with faculty supervision. Arrangements for this experience to be made before semester begins.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CES 88298 INDIVIDUAL RESEARCH IN COUNSELOR EDUCATION AND SUPERVISION 1-3 Credit Hours**

(Repeatable for credit) Individual research on selected aspect of counseling and human development services under supervision of instructor. Arrangements with instructor must be made prior to registration. Satisfactory/unsatisfactory (S/U) graded.

**Prerequisite:** Doctoral standing; and special approval.

**Schedule Type:** Research

**Contact Hours:** 1-3 other

**Grade Mode:** Satisfactory/Unsatisfactory

**CES 88392 TEACHING PRACTICUM IN COUNSELOR EDUCATION AND SUPERVISION 3 Credit Hours**

(Repeatable for credit) Supervised experience in the practice of college teaching in Counselor Education and Supervision. Students meet for group supervision to assess their effectiveness in college teaching. Live video and audio supervisory processes will be utilized to assist with skill development. Limited to 6 students.

**Prerequisite:** CES 88294; and doctoral standing.

**Schedule Type:** Practical Experience

**Contact Hours:** 9 other

**Grade Mode:** Standard Letter

**CES 88492 SUPERVISION PRACTICUM IN COUNSELOR EDUCATION AND SUPERVISION 3 Credit Hours**

(Repeatable for credit) This practicum focuses on the application of theoretical perspectives and practices of counseling supervision. It includes multiple supervisory experiences, including facilitation of individual and group supervision of counseling students in master's practicums or internships.

**Prerequisite:** CES 88284; and doctoral standing in the Counselor Education and Supervision major.

**Schedule Type:** Practical Experience

**Contact Hours:** 9 other

**Grade Mode:** Standard Letter

## Educational Psychology (EPSY)

**EPSY 29525 EDUCATIONAL PSYCHOLOGY 3 Credit Hours**

Examines major theories of human development and learning, motivation, instructional strategies, assessment; similarities and differences in learners. The role of factors in the students' learning and development is considered. Participation in the educational psychology research participant pool or an alternative research assignment is required.

**Prerequisite:** CULT 29535.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** TAG Education

**EPSY 49525 RELATIONAL LEARNING IN EDUCATION 3 Credit Hours**

(Repeatable for credit) Seminar focuses on national and international relational learning approaches to education. Current literature on relational learning is critiqued. Professional identity is supported through engages learning opportunities in per mentoring experiences and faculty-let research. Course may be repeated for maximum 9 credit hours.

**Prerequisite:** Special approval.

**Schedule Type:** Seminar

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**EPSY 50093 VARIABLE TITLE WORKSHOP IN EDUCATIONAL PSYCHOLOGY 1-4 Credit Hours**

(Repeatable for a maximum of 6 credit hours) (Slashed with EPSY 70093) Offered on request of school system. Enrollment limited to teachers, administrators or supervisors who are employed in sponsoring system and who are accepted to the university.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Workshop

**Contact Hours:** 1-4 other

**Grade Mode:** Satisfactory/Unsatisfactory

**EPSY 60199 THESIS I 2-6 Credit Hours**

Thesis student must register for total of 6 hours, 2 to 6 hours in a single semester distributed over several semesters if desired.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Masters Thesis

**Contact Hours:** 2-6 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**EPSY 60299 THESIS II 2 Credit Hours**

Thesis students must continue registration each semester until all degree requirements are met.

**Prerequisite:** EPSY 60199; and graduate standing.

**Schedule Type:** Masters Thesis

**Contact Hours:** 2 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**EPSY 63531 CURRICULUM DEVELOPMENT FOR GIFTED LEARNERS 3 Credit Hours**

Focus on design/development of curriculum for gifted learners; adapt/modify existing curricula; design curricular materials through predetermined process assessment of suitability of materials.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**EPSY 63532 GIFTED PROGRAM DESIGN, ASSESSMENT AND ADMINISTRATION 3 Credit Hours**

Fundamentals of designing gifted programs are reviewed. Topics include student identification, assessment, advocacy, program evaluation, compliance with state standards, and teacher preparation.

**Prerequisite:** EPSY 63540 and EPSY 63545; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**EPSY 63535 SOCIAL AND EMOTIONAL ASPECTS OF THE GIFTED AND SPECIAL SUBPOPULATIONS 3 Credit Hours**

The affective needs and characteristics of gifted learners and special subpopulations are examined with consideration of the implications for instruction and socio-emotional supports.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**EPSY 63540 NATURE AND NEEDS OF GIFTED 3 Credit Hours**

Personal characteristics, abilities and potentialities of gifted through review of related research. Evaluation of research findings and implications for psycho-educational development.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**EPSY 63545 INSTRUCTIONAL PROCESSES FOR GIFTED CHILDREN 3 Credit Hours**

Education and guidance of gifted students, K-12. Classroom strategies for instruction and accommodation including selection of appropriate instructional strategies.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**EPSY 64892 ADVANCED PRACTICUM: GIFTED AND TALENTED EDUCATION 3 Credit Hours**

This course is designed to provide an opportunity to practice skills and demonstrate appropriate dispositions for meeting the needs of students who are gifted and talented.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Practical Experience

**Contact Hours:** 9 other

**Grade Mode:** Standard Letter-IP

**EPSY 65520 CHILD AND ADOLESCENT DEVELOPMENT 3 Credit Hours**

(Slashed with EPSY 75520) Dimensions of human development and learning, causal factors and research findings which carry implications for educators in various settings; focusing on birth through adolescence.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**EPSY 65521 ADULT DEVELOPMENT 3 Credit Hours**

(Slashed with EPSY 75521) Essential dimensions of human development and learning, the causal factors and the research findings which carry implications for educators in various settings; focusing on early through late adulthood.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**EPSY 65523 LIFE SPAN DEVELOPMENT 3 Credit Hours**

(Slashed with EPSY 75523) Orientation to human development across life span from conception to death; emphasis on pluralistic determinants of individual growth within changing environmental contexts. Implications for educational and human service practices are emphasized.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**EPSY 65524 LEARNING THEORIES 3 Credit Hours**

(Slashed with EPSY 75524) Theories of learning with special emphasis on application to professional practice. A critical examination of research on human learning processes.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**EPSY 65529 EDUCATIONAL MOTIVATION 3 Credit Hours**

Provides students with the opportunity to explore, analyze and evaluate literature related to theories of motivation. Content is grounded in theories but each of the theories has clear classroom application.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**EPSY 68901 PSYCHOLOGICAL FOUNDATIONS OF EDUCATION 3 Credit Hours**

(Slashed with EPSY 78901) Overview of human development, particularly adolescence, and implications for educational policy and programming, generally and specifically for secondary schools.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**EPSY 68905 EDUCATIONAL PSYCHOLOGY 3 Credit Hours**

(Slashed with EPSY 78905) Analysis and critique of major learning theories, state-of-the-art development in theory, research and application to educational practice in selected disciplines.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**EPSY 69091 SEMINAR IN LEARNING AND DEVELOPMENT 1-5 Credit Hours**

(Repeatable for credit) Variable topic seminar for advanced study of specialized topics and areas; in learning and development; emphasis on theory and research findings as related to educational practice.

**Prerequisite:** Graduate standing.

**Schedule Type:** Seminar

**Contact Hours:** 1-5 other

**Grade Mode:** Standard Letter

**EPSY 69092 ADVANCED PRACTICUM AND INTERNSHIP 1-6 Credit Hours**

Supervised program in field setting involving application of theories, principles, and methodology in learning and development; planned with and supervised by graduate faculty member.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Practical Experience

**Contact Hours:** 3.333-20 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**EPSY 69095 SPECIAL TOPICS IN LEARNING AND DEVELOPMENT 1-3 Credit Hours**

(Repeatable for credit) Specific topic course offering in response to emerging student or program needs in learning and development.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 1-3 lecture

**Grade Mode:** Standard Letter

**EPSY 69096 INDIVIDUAL INVESTIGATION IN LEARNING AND DEVELOPMENT 1-3 Credit Hours**

(Repeatable for credit) Students pursue an individual project on a specific topic in learning and development with approval and under direction of instructor.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Individual Investigation

**Contact Hours:** 1-3 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**EPSY 69098 RESEARCH IN LEARNING AND DEVELOPMENT 1-15 Credit Hours**

(Repeatable for credit) Students pursue an individual research project on a specific topic in learning and development with approval and under direction of instructor.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Research

**Contact Hours:** 1-15 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**EPSY 70093 VARIABLE TOPIC WORKSHOP IN EDUCATIONAL PSYCHOLOGY 1-4 Credit Hours**

(Repeatable once for a maximum of 6 credit hours) (Cross-listed with EPSY 50093) Offered on request of school system. Enrollment limited to teachers, administrators or supervisors who are employed in sponsoring system and who are accepted to the university.

**Prerequisite:** Doctoral standing; and special approval.

**Schedule Type:** Workshop

**Contact Hours:** 1-4 other

**Grade Mode:** Satisfactory/Unsatisfactory

**EPSY 70094 COLLEGE TEACHING 3 Credit Hours**

(Repeatable for credit) Discusses major aspects of teaching in higher education, including such topics as students' philosophy of teaching, principles of adult learning, instructional strategies, students' assessment.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**EPSY 75520 CHILD AND ADOLESCENT DEVELOPMENT 3 Credit Hours**

(Slashed with EPSY 65520) Dimensions of human development and learning, causal factors and research findings which carry implications for educators in various settings; focusing on birth through adolescence.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**EPSY 75521 ADULT DEVELOPMENT 3 Credit Hours**

(Slashed with EPSY 65521) Essential dimensions of human development and learning, the causal factors and the research findings which carry implications for educators in various settings; focusing on early through late adulthood.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**EPSY 75523 LIFE SPAN DEVELOPMENT 3 Credit Hours**

(Slashed with EPSY 65523) Orientation to human development across life span from conception to death; emphasis on pluralistic determinants of individual growth within changing environmental contexts. Implications for educational and human service practices are emphasized.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**EPSY 75524 LEARNING THEORIES 3 Credit Hours**

(Slashed with EPSY 65524) Theories of learning with special emphasis on application to professional practice. A critical examination of research on human learning processes.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**EPSY 75529 EDUCATIONAL MOTIVATION 3 Credit Hours**

Provides students with the opportunity to explore, analyze and evaluate literature related to theories of motivation. Content is grounded in theories but each of the theories has clear classroom application.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**EPSY 78901 PSYCHOLOGICAL FOUNDATIONS OF EDUCATION 3 Credit Hours**

(Slashed with EPSY 68901) Overview of human development and its implications for educational policy and programming for schools.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**EPSY 78905 EDUCATIONAL PSYCHOLOGY 3 Credit Hours**

(Slashed with EPSY 68905) Analysis and critique of major learning theories, state-of-the-art development in theory, research and application to educational practice in selected disciplines.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**EPSY 80090 DOCTORAL RESIDENCY SEMINAR 3 Credit Hours**

Advanced doctoral residency seminar for students in all areas of educational foundations. Focus on current and emergent issues research and trends in education in multiple settings.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Seminar

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**EPSY 80199 DISSERTATION I 15 Credit Hours**

(Repeatable for credit) Doctoral dissertation for which registration in at least two semesters is required, first of which will be semester in which dissertation work is begun and continuing until the completion of 30 hours.

**Prerequisite:** Doctoral standing; and special approval.

**Schedule Type:** Dissertation

**Contact Hours:** 15 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**EPSY 80299 DISSERTATION II 15 Credit Hours**

(Repeatable for credit) Continuing registration required of doctoral students who have completed the initial 30 hours of dissertation and continuing until all degree requirements are met.

**Prerequisite:** EPSY 80199; and doctoral standing.

**Schedule Type:** Dissertation

**Contact Hours:** 15 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**EPSY 87450 PSYCHOLOGICAL PRINCIPLES OF EDUCATION 3 Credit Hours**

Provides an exploration of educational psychology as the study of learning and teaching, in particular the mental representations and processes involved in the acquisition, storage, retrieval and use of knowledge in educational settings. Discusses how research and theory in educational psychology can be applied to real world classroom problems. Students are also required to develop a research project, which utilizes technology to test psychological theories about learning and instruction.

**Prerequisite:** Doctoral standing.

**Corequisite:** ETEC 87450.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**EPSY 89091 SEMINAR IN LEARNING AND DEVELOPMENT 1-5 Credit Hours**

(Repeatable for credit) Variable topic seminar for advanced study of specialized topics and areas; in learning and development; emphasis on theory and research findings as related to educational practice.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Seminar

**Contact Hours:** 1-5 other

**Grade Mode:** Standard Letter

**EPSY 89092 ADVANCED PRACTICUM AND INTERNSHIP 1-6 Credit Hours**

Supervised program in field setting involving application of theories, principles, and methodology in learning and development; planned with and supervised by graduate faculty member.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Practical Experience

**Contact Hours:** 3.333-20 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**EPSY 89095 SPECIAL TOPICS IN LEARNING AND DEVELOPMENT 1-3 Credit Hours**

(Repeatable for credit) Specific topic course offering in response to emerging student or program needs in learning and development.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 1-3 lecture

**Grade Mode:** Standard Letter

**EPSY 89096 INDIVIDUAL INVESTIGATION IN LEARNING AND DEVELOPMENT 1-3 Credit Hours**

(Repeatable for credit) Students pursue an individual project on a specific topic in learning and development with approval and under direction of instructor.

**Prerequisite:** Doctoral standing; and special approval.

**Schedule Type:** Individual Investigation

**Contact Hours:** 1-3 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**EPSY 89098 RESEARCH IN LEARNING AND DEVELOPMENT 1-15 Credit Hours**

(Repeatable for credit) Students pursue an individual research project on a specific topic in learning and development with approval and under direction of instructor.

**Prerequisite:** Doctoral standing; and special approval.

**Schedule Type:** Research

**Contact Hours:** 1-15 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

## Gerontology (GERO)

**GERO 14029 INTRODUCTION TO GERONTOLOGY (DIVD) (KSS) 3 Credit Hours**

Interdisciplinary approach to the study of the aging process.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Diversity Domestic, Kent Core Social Sciences, Transfer Module Social Sciences

**GERO 40656 PSYCHOLOGY OF AGING 3 Credit Hours**

(Slashed with GERO 50656 and GERO 70656) Exploration of basic research and theory on the psychological consequences of aging and psychological factors that affect the behavior of older persons.

**Prerequisite:** PSYC 11762.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**GERO 41095 SPECIAL TOPICS IN GERONTOLOGY 1-4 Credit Hours**

(Repeatable for credit) (Slashed with GERO 51095) Discussion of a major topic within a specific field of gerontology.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 1-4 lecture

**Grade Mode:** Standard Letter

**GERO 41096 INDIVIDUAL INVESTIGATION 1-3 Credit Hours**

(Repeatable for credit) Independent study in gerontology.

**Prerequisite:** Written permission from instructor.

**Schedule Type:** Individual Investigation

**Contact Hours:** 1-3 other

**Grade Mode:** Standard Letter

**GERO 44030 ADULT DEVELOPMENT AND AGING (WIC) 3 Credit Hours**

(Slashed with GERO 54030) Examines developmental processes across adulthood. Evaluation of theoretical models and scientific literature.

**Prerequisite:** Admission into the HDFS Professional Phase.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Writing Intensive Course

**GERO 44031 SOCIAL POLICY AND COMMUNITY RESOURCES FOR OLDER ADULTS 3 Credit Hours**

Overview of national, state and local public policy affecting older adults. Legislation, funding, planning and the service delivery system are examined.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**GERO 44092 PRACTICUM IN GERONTOLOGY (ELR) 3,6 Credit Hours**

(Repeatable for a total of 6 credit hours) Observation and participation in long-term care or community agencies serving older adults. One class discussion per week. Major GPA of 2.250 required.

**Prerequisite:** HDFS 44018; and human development and family studies majors; and senior standing; and special approval.

**Schedule Type:** Practical Experience

**Contact Hours:** 1 lecture, 14-35 other

**Grade Mode:** Standard Letter

**Attributes:** Experiential Learning Requirement

**GERO 50656 PSYCHOLOGY OF AGING 3 Credit Hours**

(Slashed with GERO 40656 and GERO 70656) Exploration of basic research and theory on the psychological consequences of aging and psychological factors that affect the behavior of older persons.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**GERO 51095 SPECIAL TOPICS IN GERONTOLOGY 1-4 Credit Hours**

(Repeatable for credit) (Slashed with GERO 41095) Discussion of a major topic or topics within the field of gerontology.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 1-4 lecture

**Grade Mode:** Standard Letter

**GERO 51096 INDIVIDUAL INVESTIGATION IN GERONTOLOGY 1-3 Credit Hours**

(Repeatable for credit) Independent study in the area of gerontology.

**Prerequisite:** Graduate standing.

**Schedule Type:** Individual Investigation

**Contact Hours:** 1-3 other

**Grade Mode:** Standard Letter

**GERO 54030 ADULT DEVELOPMENT AND AGING 3 Credit Hours**

(Slashed with GERO 44030) Examines developmental processes across adulthood. Evaluation of theoretical models and scientific literature.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**GERO 61091 SEMINAR IN GERONTOLOGY 1-3 Credit Hours**

(Repeatable for credit) Seminar dealing with topics in the field of gerontology.

**Prerequisite:** Graduate standing.

**Schedule Type:** Seminar

**Contact Hours:** 1-3 other

**Grade Mode:** Standard Letter

**GERO 61191 INTERDISCIPLINARY SEMINAR IN GERONTOLOGY 3 Credit Hours**

(Repeatable for credit) Course is designed to assist students in developing the knowledge and skills needed to understand the major issues in gerontological theory, research and practice from a multi-disciplinary perspective.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Seminar

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**GERO 70656 PSYCHOLOGY OF AGING 3 Credit Hours**

(Slashed with GERO 40656 and GERO 50656) Exploration of basic research and theory on the psychological consequences of aging and psychological factors that affect the behavior of older persons.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter



## Human Development and Family Studies (HDFS)

### HDFS 14027 INTRODUCTION TO HUMAN DEVELOPMENT AND FAMILY STUDIES 3 Credit Hours

This course is intended to introduce students to the study of lifespan development and family studies. Career opportunities available to Human Development and Family Studies (HDFS) graduates are explored and skills required to succeed in the field are introduced.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

### HDFS 24011 INTERPERSONAL RELATIONSHIPS AND FAMILIES (DIVD) 3 Credit Hours

(Equivalent to SOC 24011) Exploration of the sociological nature of families across the lifespan, focusing on structure, diversity and life course processes such as dating, mate selection, cohabitation, marriage, parenthood, divorce, remarriage, singlehood, widowhood, parent-child interactions, sexual orientation, inequality and difference.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Diversity Domestic

### HDFS 24012 CHILD DEVELOPMENT 3 Credit Hours

General development of the child from prenatal through middle childhood.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

### HDFS 24013 EARLY ADOLESCENCE 3 Credit Hours

Examines the fundamental transitions, social contexts and psychosocial processes involved in human development from ages 10 through 15. Implications for working with this age group within schools, human services agencies and youth development programs.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

### HDFS 24014 BRIDGING CROSS-NATIONAL RELATIONSHIPS FOR INDIVIDUALS AND FAMILIES 3 Credit Hours

This an interactive course designed to promote students' intercultural competence. The course provides students with an introduction to key components of various cultures around the world and with skills with which to build effective relationships with individuals from countries others than their own.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

### HDFS 24095 SPECIAL TOPICS IN HUMAN DEVELOPMENT AND FAMILY STUDIES 1-4 Credit Hours

(Repeatable for credit) Discussion of a major topic within human development or family studies.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 1-4 lecture

**Grade Mode:** Standard Letter

### HDFS 25512 MANAGEMENT OF FAMILY RESOURCES 3 Credit Hours

Management as applied to individuals, families and human service professionals.

**Prerequisite:** HDFS 24011.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

### HDFS 34031 CULTURAL DIVERSITY:IMPLICATIONS FOR THE HELPING PROFESSIONS 3 Credit Hours

This class is designed to enhance the competence and success of students planning to work in human services. Learning how different cultural backgrounds influence the perceptions and behaviors of clients in the human service setting is emphasized.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

### HDFS 41093 VARIABLE TOPIC WORKSHOP:HUMAN DEVELOPMENT AND FAMILY STUDIES 1-3 Credit Hours

(Repeatable for credit) Workshop setting dealing with a topic or topics in human development and family studies. Learning experiences are provided in a wide range of areas.

**Prerequisite:** None.

**Schedule Type:** Workshop

**Contact Hours:** 1-3 other

**Grade Mode:** Satisfactory/Unsatisfactory

### HDFS 41095 SPECIAL TOPICS IN HUMAN DEVELOPMENT AND FAMILY STUDIES 1-4 Credit Hours

(Repeatable for credit) (Slashed with HDFS 51095) Discussion of a major topic within human development or family studies.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 1-4 lecture

**Grade Mode:** Standard Letter

### HDFS 41096 INDIVIDUAL INVESTIGATION 1-3 Credit Hours

(Repeatable for credit) (Slashed with HDFS 51096) Independent study in human development and family studies.

**Prerequisite:** Written special approval from instructor.

**Schedule Type:** Individual Investigation

**Contact Hours:** 1-3 other

**Grade Mode:** Standard Letter

### HDFS 42092 HUMAN DEVELOPMENT AND FAMILY STUDIES STUDY AWAY EXPERIENCE (ELR) 3 Credit Hours

(Repeatable twice for credit) Exploration of human development and family studies-related topics while visiting various cultural contexts.

**Prerequisite:** Minimum 2.750 overall GPA; and special approval.

**Schedule Type:** Field Experience

**Contact Hours:** 9 other

**Grade Mode:** Standard Letter-IP

**Attributes:** Experiential Learning Requirement

**HDFS 44018 PROFESSIONAL DEVELOPMENT IN HUMAN DEVELOPMENT AND FAMILY STUDIES 3 Credit Hours**

Preparation of students for professional work experiences as well as providing an opportunity to discuss recent developments in the fields of human development, family studies and gerontology.

**Prerequisite:** Admission into the HDFS professional phase; and senior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HDFS 44020 ADOLESCENT DEVELOPMENT 3 Credit Hours**

(Slashed with HDFS 54020) Study of adolescent development with emphasis on forces related to adolescent behavior in the family and society. Evaluation of current research.

**Prerequisite:** Admission into the HDFS professional phase.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HDFS 44021 FAMILY INTERVENTION ACROSS THE LIFESPAN 3 Credit Hours**

(Slashed with HDFS 54021) Evaluation of research and theoretical models in the area of family intervention. Focus on strategies for assisting families in coping with a variety of critical issues over the family life cycle.

**Prerequisite:** Admission into the HDFS professional phase.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HDFS 44022 CHANGING ROLES OF MEN AND WOMEN 3 Credit Hours**

(Slashed with HDFS 54022) A study of roles of men and women, past, present and future.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HDFS 44023 BUILDING FAMILY STRENGTHS 3 Credit Hours**

(Slashed with HDFS 54023) The Building Family Strengths Model builds upon family life potential; based on extensive research emphasizing identified family strengths.

**Prerequisite:** Admission into the HDFS professional phase.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HDFS 44028 PARENT-CHILD RELATIONSHIPS 3 Credit Hours**

(Slashed with HDFS 54028) Study of parent-child relationships across the life span and within various contexts. Emphasis on the process of socialization and determinants of parent-child relationships based on current research.

**Prerequisite:** Admission into the HDFS professional phase.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HDFS 44029 FAMILY POLICY 3 Credit Hours**

(Slashed with HDFS 54029) Understanding federal, state and local policy issues affecting families. Role of family life educator in promoting a family-friendly perspective in policy making.

**Prerequisite:** Admission into the HDFS professional phase.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HDFS 44030 FAMILY LIFE EDUCATION METHODOLOGY 3 Credit Hours**

Developing teaching methods and techniques for family life education and the study of family life education content areas.

**Prerequisite:** Admission into the HDFS professional phase.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HDFS 44032 NONPROFIT FUNDRAISING AND GRANTWRITING 3 Credit Hours**

(Slashed with HDFS 54032) Provides comprehensive preparation in planning, seeking and acquiring funding from available resources in supporting the mission of nonprofit human service agencies.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HDFS 44033 COMMUNITY OUTREACH IN NONPROFIT MANAGEMENT (ELR) 3 Credit Hours**

An overview of nonprofit organizations at the local, national and international levels, including how to start and manage one. A comprehensive examination of the Board of Directors, advocacy and lobbying, program development, mission, vision and strategic goals, philanthropic fundraising and the financial management process, as well as the legal aspects. In addition, students will study service learning and complete a Field Experience at a nonprofit organization.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Experiential Learning Requirement

**HDFS 44034 PRINCIPLES AND PRACTICES OF NONPROFIT MANAGEMENT 3 Credit Hours**

An overview of nonprofit organizations including the areas of risk management, mentoring, cultural competence, social entrepreneurship, and how to effectively manage paid staff and volunteers. In addition, students will learn about earned income strategies and the marketing-communication process, including the use of technology. The course will also cover leadership, communication and conflict resolution skills. Other areas of study include accountability and transparency, ethical behavior, building capacity, change management, and the importance of collaborations and mergers and government support in the sector.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HDFS 44035 ASSESSMENT AND STRATEGIES IN CASE MANAGEMENT**  
**3 Credit Hours**

An examination of the evaluation of client needs and assessment of client condition. Course emphasizes interviewing as a major assessment strategy.

**Prerequisite:** Admission into the HDFS professional phase.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HDFS 44036 GENERAL CASE MANAGEMENT METHODS**  
**3 Credit Hours**

Examination of case management processes and strategies, with focus on community resources to meet client needs in the human service setting.

**Prerequisite:** Admission into the HDFS professional phase.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HDFS 44037 POSITIVE YOUTH DEVELOPMENT**  
**3 Credit Hours**

Examines individual, family, school and community characteristics that comprise developmental assets contributing to positive youth development (PYD). Definitions and descriptions of PYD approaches are examined as well as evaluations of program effectiveness. Common elements of PYD programs are explored, such as emphasizing youths' strengths, providing opportunities to learn healthy behaviors, promoting positive peer relationships, connecting youth with caring adults, empowering youth to assume leadership roles, and challenging youth in ways that build their competence. Implications for professional child and youth work are discussed.

**Prerequisite:** HDFS 44020; and admission into the HDFS professional phase.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HDFS 44038 PROFESSIONAL CHILD AND YOUTH WORK PRACTICE**  
**3 Credit Hours**

Provides students with an understanding of the historical and current methodologies and organizational structures of professional child and youth work practice, emphasizing a synthesis of previous and new learning regarding five domains of competence (professionalism, cultural and human diversity, applied human development, relationship and communication and developmental practice methods). Practice issues in community-based and out-of-home care settings as well as work with various child and youth populations are explored.

**Prerequisite:** Admission into the HDFS professional phase.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HDFS 44039 BEREAVEMENT, TRAUMA AND OTHER LOSSES**  
**3 Credit Hours**

Exploration of the impact of death, trauma and other losses on individuals and families across the lifespan. Consideration of gender, social and cultural context. Implications for human services professionals.

**Prerequisite:** HDFS 24011.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HDFS 44092 PRACTICUM IN HUMAN DEVELOPMENT AND FAMILY STUDIES (ELR)**  
**3-6 Credit Hours**

(Repeatable for credit) (Slashed with HDFS 54092) Observation and participation in child, family and social service agencies. One class discussion per week. Students are required to complete Bureau of Criminal Investigation and Identification (BCII) and Federal Bureau of Investigation (FBI) background checks and submit the results to authorized personnel at their assigned school agency before the first day of the semester in which student teaching internship will take place. Major GPA of 2.250 is required.

**Prerequisite:** HDFS 44018; and admission into the HDFS professional phase; and senior standing; and special approval.

**Schedule Type:** Practical Experience

**Contact Hours:** 1 lecture, 14-35 other

**Grade Mode:** Standard Letter

**Attributes:** Experiential Learning Requirement

**HDFS 44192 INTERNSHIP IN HUMAN DEVELOPMENT AND FAMILY STUDIES-CASE MANAGEMENT I (ELR)**  
**3-6 Credit Hours**

(Repeatable for credit) Supervised field experience in a human service agency. Joint university-agency supervision.

**Prerequisite:** Admission into HDFS professional phase; and junior standing.

**Corequisite:** HDFS 44035.

**Schedule Type:** Practical Experience

**Contact Hours:** 3-6 other

**Grade Mode:** Standard Letter

**Attributes:** Experiential Learning Requirement

**HDFS 44292 INTERNSHIP IN HUMAN DEVELOPMENT AND FAMILY STUDIES-CASE MANAGEMENT II (ELR)**  
**3-6 Credit Hours**

(Repeatable for credit) Continued supervised field experience in a human service agency. Joint university-agency supervision.

**Prerequisite:** HDFS 44192; and admission into the HDFS professional phase; and junior standing.

**Corequisite:** HDFS 44036.

**Schedule Type:** Practical Experience

**Contact Hours:** 9-18 other

**Grade Mode:** Standard Letter

**Attributes:** Experiential Learning Requirement

**HDFS 51093 VARIABLE TITLE WORKSHOP IN HUMAN DEVELOPMENT AND FAMILY STUDIES**  
**1-3 Credit Hours**

(Repeatable for credit) (Slashed with HDFS 41093) Workshop setting dealing with a topic or topics in human development and family studies. Learning experiences are provided in a wide range of areas.

**Prerequisite:** Graduate standing.

**Schedule Type:** Workshop

**Contact Hours:** 1-3 other

**Grade Mode:** Satisfactory/Unsatisfactory

**HDFS 51095 SPECIAL TOPICS IN HUMAN DEVELOPMENT AND FAMILY STUDIES**  
**1-4 Credit Hours**

(Repeatable for credit) (Slashed with HDFS 41095) Discussion of a major topic within human development and family studies.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 1-4 lecture

**Grade Mode:** Standard Letter

**HDFS 51096 INDIVIDUAL INVESTIGATION 1-3 Credit Hours**

(Repeatable for credit) (Slashed with HDFS 41096) Independent study in human development and/or family studies.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Individual Investigation

**Contact Hours:** 1-3 other

**Grade Mode:** Standard Letter

**HDFS 52092 HUMAN DEVELOPMENT AND FAMILY STUDIES STUDY AWAY EXPERIENCE 3 Credit Hours**

(Repeatable twice for credit) Exploration of human development and family studies-related topics while visiting various cultural contexts.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Field Experience

**Contact Hours:** 9 other

**Grade Mode:** Standard Letter-IP

**HDFS 54020 ADOLESCENT DEVELOPMENT 3 Credit Hours**

(Slashed with HDFS 44020) Adolescent development with emphasis on forces related to adolescent behavior. Evaluation of current research.

**Prerequisite:** Human development and family studies major; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HDFS 54021 FAMILY INTERVENTION ACROSS THE LIFE SPAN 3 Credit Hours**

(Slashed with HDFS 44021) Evaluation of research and theoretical models in the area of family intervention. Focus on strategies for assisting families in coping with a variety of critical issues over the family life cycle.

**Prerequisite:** Human development and family studies major; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HDFS 54022 CHANGING ROLES OF MEN AND WOMEN 3 Credit Hours**

(Slashed with HDFS 44022) A study of roles of men and women, past, present, and future.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HDFS 54023 BUILDING FAMILY STRENGTHS 3 Credit Hours**

(Slashed with HDFS 44023) The building family strengths model builds upon family life potential, based on extensive research emphasizing identified family strengths.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HDFS 54028 PARENT-CHILD RELATIONSHIPS 3 Credit Hours**

Study of parent-child relationships across the life span and within various contexts. Emphasis on the process of socialization and determinants of parent-child relationships based on current research.

**Prerequisite:** Human development and family studies major; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HDFS 54029 FAMILY POLICY 3 Credit Hours**

(Slashed with HDFS 44029) Understanding federal, state and local policy issues affecting families. Role of family life educator in promoting a family-friendly perspective in policy making.

**Prerequisite:** Human development and family studies major; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HDFS 54032 NONPROFIT FUNDRAISING AND GRANTWRITING 3 Credit Hours**

(Slashed with HDFS 44032) Provides comprehensive preparation in planning, seeking and acquiring funding from available resources in supporting the mission of nonprofit human services agencies.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HDFS 54037 POSITIVE YOUTH DEVELOPMENT 3 Credit Hours**

Examines individual, family, school and community characteristics that comprise developmental assets contributing to positive youth development (PYD). Definitions and descriptions of PYD approaches are examined as well as evaluations of program effectiveness. Common elements of PYD programs are explored, such as emphasizing youths' strengths, providing opportunities to learn health behaviors, promoting positive peer relationships, connecting youth with caring adults, empowering youth to assume leadership roles, and challenging youth in ways that build their competence. Implications for professional child and youth work are discussed. Students complete a program development project.

**Prerequisite:** HDFS 54020; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HDFS 54038 PROFESSIONAL CHILD AND YOUTH WORK PRACTICE 3 Credit Hours**

(Slashed with HDFS 44038) Provides students with an understanding of the historical and current methodologies and organizational structures of professional child and youth work practice emphasizing a synthesis of previous and new learning regarding five domains of competence (professionalism, culture and human diversity, applied human development, relationship and communication and developmental practice methods). Practice issues in community-based an out of home care settings as well as work with various child and youth populations are to be explored. Students complete a program development and evaluation project.

**Prerequisite:** Human development and family studies major; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HDFS 54039 BEREAVEMENT, TRAUMA AND OTHER LOSSES 3 Credit Hours**

Exploration of the impact of death, trauma and other losses on individuals and families across the lifespan. Consideration of gender, social and cultural context. Implications for human services professionals.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HDFS 54092 PRACTICUM IN HUMAN DEVELOPMENT AND FAMILY STUDIES 3-6 Credit Hours**

(Repeatable for credit) (Slashed with HDFS 44092) Observation and participation in child, family and human service agencies.

**Prerequisite:** Human development and family studies major; and graduate standing; and special approval.

**Schedule Type:** Lecture, Practical Experience

**Contact Hours:** 1 lecture, 14-35 other

**Grade Mode:** Standard Letter

**HDFS 61091 SEMINAR 2,3 Credit Hours**

(Repeatable for credit) Evaluation and interpretation of recent literature in human development and/or family studies. Topic selected for semester will be indicated in the schedule of classes.

**Prerequisite:** Graduate standing.

**Schedule Type:** Seminar

**Contact Hours:** 2-3 other

**Grade Mode:** Standard Letter

**HDFS 61098 RESEARCH 1-15 Credit Hours**

(Repeatable for credit) Research for master's level graduate students. Credits earned may be applied toward meeting degree requirements if school approves.

**Prerequisite:** Graduate standing.

**Schedule Type:** Research

**Contact Hours:** 1-15 other

**Grade Mode:** Standard Letter-IP

**HDFS 61198 MASTER'S PROJECT 2-6 Credit Hours**

(Repeatable for credit) (Cross-listed with NUTR 61198) Completion and successful defense of a master's project. Master's project students must register for a total of 6 hours, 2 to 6 hours in a single semester distributed over several semesters if desired.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Master's Project

**Contact Hours:** 2-6 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**HDFS 61199 THESIS I 2-6 Credit Hours**

Thesis students must register for total of 6 hours, 2 to 6 hours in a single semester distributed over several semesters if desired.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Masters Thesis

**Contact Hours:** 2-6 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**HDFS 61299 THESIS II 2 Credit Hours**

Thesis II students must continue registration each semester until all degree requirements are met.

**Prerequisite:** HDFS 61199; and graduate standing.

**Schedule Type:** Masters Thesis

**Contact Hours:** 2 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**HDFS 64023 FAMILY THEORIES AND PROCESSES 3 Credit Hours**

An examination of theories and research for understanding family dynamics and changes in families across the lifespan. Includes attention to diverse family structures, dyadic and group processes applicable to families, and social and cultural contexts.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HDFS 64024 FAMILY LIFE EDUCATION 3 Credit Hours**

Developing community acceptance, teaching aids and techniques and curriculum for family life education.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HDFS 64026 PROFESSIONAL ISSUES IN HUMAN DEVELOPMENT AND FAMILY STUDIES 2 Credit Hours**

This course covers ethical and professional issues related to the field of human development and family studies. The course will cover both conceptual ideas related to research and practice in the field as well as practical tools for professional development and successful completion of the Master's Thesis or Project.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**HDFS 64027 EARLY ADOLESCENCE 3 Credit Hours**

Examines the fundamental changes, social contexts and psychosocial processes involved in human development from ages eight through 15. Implications for working with this age group within schools and human service agencies.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

## Long-Term Care Administration (LTCA)

**LTCA 43092 INTERNSHIP IN NURSING HOME ADMINISTRATION/ HEALTH SERVICES EXECUTIVE (ELR) 9 Credit Hours**

Internship in skilled nursing facility. One, 3 hour, on-campus seminar every three weeks (meets four times). Approximately 35-40 clock hours per week at internship site is required. Students participate in weekly online course discussions and have an on-site visit to their internship site during the semester.

**Prerequisite:** Minimum B grade in LTCA 44032; and human development and family studies majors or long-term care administration majors; and senior standing; and special approval.

**Schedule Type:** Lecture, Practical Experience

**Contact Hours:** 2 lecture, 33.33 other

**Grade Mode:** Standard Letter-IP

**Attributes:** Experiential Learning Requirement



**LTCA 43192 INTERNSHIP IN NURSING HOME ADMINISTRATION/ HEALTH SERVICES EXECUTIVE (ELR) 9 Credit Hours**

Internship in skilled nursing facility. One 3-hour, on-campus seminar every three weeks (meets four times). Approximately 35 clock hours per week at internship site is required. Students participate in weekly online course discussions and have an on-site visit to their internship site during the semester.

**Prerequisite:** Minimum B grade in LTCA 43092; and human development and family studies major or long-term care administration; and senior standing; and special approval.

**Schedule Type:** Lecture, Practical Experience

**Contact Hours:** 2 lecture, 33.33 other

**Grade Mode:** Standard Letter-IP

**Attributes:** Experiential Learning Requirement

**LTCA 44032 LONG-TERM CARE ADMINISTRATION I 3 Credit Hours**

(Slashed with LTCA 54032) Presents an overview and introduction to the principles of long-term care administration and other administration options.

**Prerequisite:** Junior or senior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**LTCA 44033 LONG-TERM CARE ADMINISTRATION II 3 Credit Hours**

(Slashed with LTCA 54033) Presents a focus on Assisted Living (AL) and Home and Community Based Services (HCBS) and Supports in long term care to align with accreditation standards for Nursing Home Administration-Health Services Executive (NHA-HSE).

**Prerequisite:** Minimum C+ in LTCA 44032; and senior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**LTCA 54032 LONG-TERM CARE ADMINISTRATION I 3 Credit Hours**

(Slashed with LTCA 44032) Presents an overview and introduction to the principles of long-term care (LTC) administration and other administration options.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**LTCA 54033 LONG-TERM CARE ADMINISTRATION II 3 Credit Hours**

(Slashed with LTCA 44033) Presents a focus on Assisted Living (AL) and Home and Community Based Services (HCBS) and Supports in long term care to align with accreditation standards for Nursing Home Administration-Health Services Executive (NHA-HSE).

**Prerequisite:** Minimum B grade in LTCA 54032; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**LTCA 63092 PRACTICUM IN NURSING HOME ADMINISTRATION I 6 Credit Hours**

Internship in skilled nursing facility. One, 3 hour, on-campus seminar every three weeks (meets five times). Weekly one hour online lectures and discussions also take place. Approximately 35 clock hours per week at internship site is required.

**Prerequisite:** Minimum B grade in LTCA 54032; and graduate standing; and special approval.

**Schedule Type:** Lecture, Practical Experience

**Contact Hours:** 2 lecture, 33.33 other

**Grade Mode:** Standard Letter

**LTCA 63192 PRACTICUM IN NURSING HOME ADMINISTRATION II 6 Credit Hours**

Internship in skilled nursing facility. One 3-hour, on-campus seminar every three weeks (meets five times). One hour online lectures and discussions are held each week. Approximately 35 clock hours per week at internship is required.

**Prerequisite:** A minimum B grade in both LTCA 54032 and LTCA 63092; and graduate standing; and special approval.

**Schedule Type:** Lecture, Practical Experience

**Contact Hours:** 2 lecture, 33.33 other

**Grade Mode:** Standard Letter

## Rehabilitation Counseling and Training (RHAB)

**RHAB 57712 INTRODUCTION TO REHABILITATION 3 Credit Hours**

Introductory course surveys philosophy, history, and legislation in rehabilitation which is defined as a process, social movement and public mandate. Particular emphasis is given to the role and function of the rehabilitation counselor in the private and public sectors.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**RHAB 60093 VARIABLE TITLE WORKSHOP IN REHABILITATION COUNSELING 1-4 Credit Hours**

(Repeatable for credit)

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Workshop

**Contact Hours:** 1-4 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**RHAB 67723 MEDICAL INFORMATION FOR REHABILITATION COUNSELORS 3 Credit Hours**

(Cross-listed with CES 77723) Study of the physical impact of disease or injury on individuals; available medical and restorative resources skills in interpreting medical reports and rehabilitation planning.

**Prerequisite:** Graduate standing.

**Schedule Type:** Clerkship

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**RHAB 67725 PSYCHOSOCIAL IMPACT OF DISABILITY 3 Credit Hours**

Introduction to major concepts in rehabilitation regarding the impact of disability on the individual, the family and the community. Normalization stigma and adjustment to loss emphasized.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**RHAB 67730 POLICIES AND PRACTICES FOR REHABILITATION COUNSELORS OF THE DEAF 3 Credit Hours**

Designed to integrate coursework in Rehabilitation and Deaf Education with field experiences in preparation for interning with an RCD by building upon coursework and field experiences to examine the unique issues, accommodations, and modifications needed when applying these processes to DHH individuals. The course addresses cultural, linguistic, and experiential issues that impact achievement, assessment, vocational identity and skills, career education and training, counseling theory and practice, and employer and employment site preparation with a focus on identification and use of research-based exemplary practices. It also provides specific consumer, vendor, organizational, political, social, and educational aspects facing RCDs.

**Prerequisite:** Rehabilitation counseling and training major; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**RHAB 67732 OCCUPATIONAL ASPECTS OF DISABILITY 3 Credit Hours**

An introduction to a wide range of occupational and vocational analysis through job analysis, job seeking, job placement, job restructuring, work adjustment and independent living approaches.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**RHAB 67776 SEMINAR ON RESEARCH IN DISABILITIES 3 Credit Hours**

Survey of the research literature in disabilities. Guidelines for evaluating and implementing research findings. Acquaints students with current research. Evaluation of design statistical analysis and conclusions.

**Prerequisite:** Graduate standing.

**Corequisite:** EVAL 65510.

**Schedule Type:** Seminar

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**RHAB 67795 SPECIAL TOPICS IN REHABILITATION 1-3 Credit Hours**

(Repeatable for credit) Presentation of special interest to students. Offered irregularly. Topic will be announced in schedule of classes booklet.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**RHAB 67796 INDIVIDUAL INVESTIGATION IN REHABILITATION COUNSELING 1-3 Credit Hours**

(Repeatable for credit) Independent reading and/or research directed by a graduate faculty member.

**Prerequisite:** Graduate standing.

**Schedule Type:** Individual Investigation

**Contact Hours:** 1-3 other

**Grade Mode:** Standard Letter-IP

**RHAB 67798 INDIVIDUAL RESEARCH IN REHABILITATION 1-9 Credit Hours**

(Repeatable for credit) Research project on an aspect of rehabilitation under supervision of instructor. Arrangements with instructor must be made prior to registration.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Research

**Contact Hours:** 1-9 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**RHAB 67892 INTERNSHIP: REHABILITATION 6 Credit Hours**

(Repeatable for credit) Assignment to rehabilitation agency for extensive and intensive applications appropriate for rehabilitation counseling, consulting and coordinating. Supervision of internships shared jointly by rehabilitation agency and university instructor. Credit hour reduction for prior experience may be granted.

**Prerequisite:** CES 69192; and graduate standing.

**Schedule Type:** Practical Experience

**Contact Hours:** 43 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**RHAB 70093 VARIABLE TITLE WORKSHOP IN REHABILITATION COUNSELING 1-4 Credit Hours**

(Repeatable for credit)

**Prerequisite:** Doctoral standing; and special approval.

**Schedule Type:** Workshop

**Contact Hours:** 1-4 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**RHAB 77712 INTRODUCTION TO REHABILITATION 3 Credit Hours**

Introductory course surveys philosophy, history and legislation in rehabilitation which is defined as a process, social movement and public mandate. Particular emphasis is given to the role and function of the rehabilitation counselor in the private and public sectors.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**RHAB 77723 MEDICAL INFORMATION FOR REHABILITATION COUNSELORS 3 Credit Hours**

(Cross-listed with CES 67723) Study of the physical impact of disease or injury on individuals; available medical and restorative resources skills in interpreting medical reports and rehabilitation planning.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Clerkship

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**RHAB 77725 PSYCHOSOCIAL IMPACT OF DISABILITY 3 Credit Hours**

Introduction to major concepts in rehabilitation regarding the impact of disability on the individual, the family and the community. Normalization, stigma and adjustment to loss emphasized.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**RHAB 77732 OCCUPATIONAL ASPECTS OF DISABILITY 3 Credit Hours**

An introduction to a wide range of occupational and vocational analysis through job analysis, job seeking, job placement, job restructuring, work adjustment and independent living approaches.

**Prerequisite:** RHAB 67729 or 77729; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**RHAB 77736 INDIVIDUAL COUNSELING PRACTICUM IN REHABILITATION 2-4 Credit Hours**

Supervised, controlled exposure to rehabilitation clients; examine alternative modes of intervention; group and individual feedback sessions using audio and videotape recordings.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Practical Experience

**Contact Hours:** 2-4 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**RHAB 77776 SEMINAR ON RESEARCH IN DISABILITIES 3 Credit Hours**

Survey of the research literature in disabilities. Guidelines for evaluating and implementing research findings. Acquaints students with current research. Evaluation of design statistical analysis and conclusions.

**Prerequisite:** Doctoral standing.

**Corequisite:** EVAL 66510.

**Schedule Type:** Seminar

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**RHAB 77792 INTERNSHIP REHABILITATION 6 Credit Hours**

(Repeatable for credit) Assignment to rehabilitation agency for extensive and intensive applications appropriate for rehabilitation counseling, consulting and coordinating. Supervision of internships shared jointly by rehabilitation agency and university instructor. Credit hour reduction for prior experience may be granted.

**Prerequisite:** CES 6/77736; and doctoral standing.

**Schedule Type:** Practical Experience

**Contact Hours:** 43 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**RHAB 77795 SPECIAL TOPICS IN REHABILITATION 1-3 Credit Hours**

(Repeatable for credit) Presentation of special interest to students. Offered irregularly. Topic will be announced in schedule of classes booklet.

**Prerequisite:** Doctoral standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 1-3 lecture

**Grade Mode:** Standard Letter

**RHAB 77796 INDIVIDUAL INVESTIGATION IN REHABILITATION COUNSELING 1-3 Credit Hours**

(Repeatable for credit) Independent reading and/or research directed by a graduate faculty member.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Individual Investigation

**Contact Hours:** 1-3 other

**Grade Mode:** Standard Letter-IP

**RHAB 77798 INDIVIDUAL RESEARCH IN REHABILITATION 1-9 Credit Hours**

(Repeatable for credit) Research project on an aspect of rehabilitation under supervision of instructor. Arrangements with instructor must be made prior to registration.

**Prerequisite:** Doctoral standing; and special approval.

**Schedule Type:** Research

**Contact Hours:** 1-9 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**Special Education (SPED)****SPED 23000 INTRODUCTION TO EXCEPTIONALITIES (DIVD) 3 Credit Hours**

Introduction to student exceptionalities, service delivery/placement options and multidisciplinary team process. Focus on identification of characteristics definition and identification procedures of students with exceptionalities. Students will undertake 15 clinical hours.

**Prerequisite:** None.

**Schedule Type:** Clinical Laboratory, Lecture

**Contact Hours:** 3 lecture, 1 other

**Grade Mode:** Standard Letter

**Attributes:** Diversity Domestic, TAG Education

**SPED 24000 INCLUSIVE PRACTICES 3 Credit Hours**

Overview of current special education issues as they relate to inclusive practices. Students gain an understanding of the challenges faced by exceptional students and analyze the responsibilities of educational professionals in addressing these challenges. Students develop a productive orientation toward effective instruction in inclusive settings through a study of legal, practical, professional and attitudinal issues relevant to inclusive education.

**Prerequisite:** SPED 23000.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPED 40093 WORKSHOP IN SPECIAL EDUCATION 1-5 Credit Hours**

(Slashed with SPED 50093 and SPED 70093) (Repeatable for credit) Topics of special interest to students desiring to intensify their knowledge in particular areas. Presenters include Kent State University faculty and other institutions. Offered irregularly.

**Prerequisite:** None.

**Schedule Type:** Workshop

**Contact Hours:** 1-5 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**SPED 42030 ISSUES IN MODERATE-INTENSIVE DISABILITIES 3 Credit Hours**

(Slashed with SPED 52030) Addresses a variety of topics relevant to the education of students with moderate to intensive (MDIN) educational needs, including contemporary issues, evidence-based interventions and the understanding and addressing of mental health issues in educational environments. Prepares pre-service MDIN teachers to understand challenges they are likely to encounter in the classroom, and connects them with local and national professional development resources to help address those challenges.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPED 42951 EARLY INTERVENTION IN NATURAL ENVIRONMENTS 3 Credit Hours**

Course targets a broad array of early childhood professionals that comprise the field of early intervention from practitioners to future leaders in the field. Primary focus is on identifying natural opportunities for infants and toddlers to acquire and practice functional skills and behaviors. Recommended practice guidelines of the Division for Early Childhood indicate that interventions should be embedded and distributed within and across the routines, activities and places that are part of the child's daily experience. Course explores issues related to the various natural environments of the children in search of the routines, activities and places that offer the maximum learning and practice opportunities that are family-centered, developmentally and individually appropriate, culturally sensitive and least intrusive.

**Prerequisite:** Minimum 2.750 overall GPA; and junior or senior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPED 43010 FAMILY AND PROFESSIONAL COLLABORATION 3 Credit Hours**

(Slashed with SPED 53010) Course provides knowledge and strategies for working with family members of exceptional individuals and members of related professions who provide services to them. Use of collaborative, interdisciplinary and inter-agency models in special education. Students undertake 20 clinical and 10 field hours.

**Prerequisite:** Admission to advanced study; and SPED 23000.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPED 43021 ASSESSMENT FOR SPECIAL EDUCATION 3 Credit Hours**

(Slashed with SPED 53021) Investigates issues and methods for assessing the academic, behavioral, physiological, mental health, and life skills of individuals with mild, moderate, and intensive disabilities. Interpretation of norm- and criterion formal assessments, creation of alternative assessments, modification of informal assessments, ecological and community-based assessments specific to individuals with low incidence and multiple disabilities.

**Prerequisite:** SPED 23000.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPED 43022 INDIVIDUALIZED PROGRAMMING AND ASSESSMENT IN SPECIAL EDUCATION 3 Credit Hours**

(Slashed with SPED 53022) Course provides students with the knowledge and skills to select appropriate screening and assessment tools for the purpose of determining eligibility for special education services. In addition, students learn how to administer, score and use assessment results to develop an individualized education program (IEP) for students identified with disabilities.

**Prerequisite:** Admission to advanced standing; and SPED 24000.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPED 43030 APPLIED BEHAVIOR ANALYSIS I: THEORY AND TECHNIQUES 3 Credit Hours**

Theory and techniques associated with applied behavior analysis. Approaches for establishing, implementing, maintaining and monitoring skill development are emphasized. Procedures for assessing and modifying classroom environments/instructional techniques to enhance learning/behavior of individuals with disabilities, with specific emphasis on preventing, increasing positive and decreasing inappropriate behavior are introduced. 25 field hours.

**Prerequisite:** Admission to advanced study; and SPED 23000.

**Schedule Type:** Field Experience, Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPED 43031 APPLIED BEHAVIOR ANALYSIS II: APPLICATION 3 Credit Hours**

Equips students with the skills necessary to integrate the technology of applied behavior analysis (as learned in SPED 43030, Applied Behavior Analysis I) with the analytical skills necessary to prevent, teach, manage and assess behavior. Specific behavioral interventions are presented. Includes 40 field hours.

**Prerequisite:** Admission to advanced study; and SPED 43030.

**Schedule Type:** Field Experience, Lecture

**Contact Hours:** 1 lecture, 2 other

**Grade Mode:** Standard Letter

**SPED 43040 LANGUAGE AND READING IN SPECIAL EDUCATION 3 Credit Hours**

(Slashed with SPED 53040) Course focuses on instructional approaches to teaching reading and language arts to students with disabilities. Major emphasis throughout is on research-based techniques to improve student reading performance, focusing on the direct instruction approach to teaching reading. Students develop intervention strategies to adapt instructional techniques, materials and assessments to meet the needs of diverse learners with disabilities.

**Prerequisite:** Admission to advanced study; and SPED 23000.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPED 43041 SUPPLEMENTAL AND INTENSIVE INSTRUCTION FOR MATHEMATICAL DIFFICULTIES 3 Credit Hours**

This course provides students with the knowledge and skills to plan, deliver, and evaluate supplemental and intensive math instruction using research-based programs and practices. Data based individualization will be used to determine what and how to teach to promote mastery and understanding of critical math skills and concepts. Students learn effective strategies and instructional approaches for improving outcomes for students experiencing persistent difficulties learning math, including students with disabilities.

**Prerequisite:** Admission to advanced study.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPED 43050 CHARACTERISTICS OF STUDENTS WITH MILD/MODERATE INTERVENTION NEEDS 3 Credit Hours**

Definitions, causes and characteristics and social and educational implications of learning developmental and emotional/behavioral disorders of students identified with mild/moderate disabilities. Methods of assessment and interventions current issues. 10 clinical and 10 field hours.

**Prerequisite:** SPED 23000.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPED 43051 CHARACTERISTICS OF STUDENTS WITH MODERATE/INTENSIVE INTERVENTION NEEDS 3 Credit Hours**

Overview of specific facets and causes of severe disabilities, physical/psychological aspects, family societal responses political trends etiology and medical implications educational and vocational programming assessment and treatment planning assistive technology. 10 clinical 10 field hours.

**Prerequisite:** SPED 23000.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPED 43060 CURRICULUM METHODS IN SPECIAL EDUCATION 3 Credit Hours**

Curriculum development, programming, delivery for students with mild, moderate or intensive disabilities. Emphasis on application of state standards to IEP development. Adapting instructional techniques, materials, assessment to meet needs. 33 field/clinical hours.

**Prerequisite:** Admission to advanced study.

**Schedule Type:** Field Experience, Lecture

**Contact Hours:** 1 lecture, 2 other

**Grade Mode:** Standard Letter

**SPED 43062 CURRICULUM METHODS MILD/MODERATE INTERVENTION 3 Credit Hours**

(Slashed with SPED 53062) Effective methods for teaching students with mild to moderate disabilities. Research-based practices for individualizing the general education curriculum. Emphasis on specially designed instruction, collaboration, and team-based problem solving.

**Prerequisite:** Admission to advanced study; and SPED 24000.

**Corequisite:** SPED 44092.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPED 43063 CURRICULUM METHODS MODERATE/INTENSIVE INTERVENTION 3 Credit Hours**

(Slashed with SPED 53063) Delivery and adaptation of evidence based practices for students with moderate to intensive educational needs. An emphasis is placed on instruction of functional academic and life skills within naturalistic contexts.

**Prerequisite:** Admission to advanced study.

**Corequisite:** SPED 44192.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPED 43070 PLANNING AND PROGRAMMING FOR TRANSITIONS 3 Credit Hours**

This course discusses transitions that occur throughout the lifespan for individuals with and without disabilities, and the planning, support development and services available to successfully accomplish them. Introduction to community agencies and adult services.

**Prerequisite:** SPED 43050 or SPED 43051.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPED 43080 ASSISTIVE TECHNOLOGY FOR STUDENTS WITH DISABILITIES 3 Credit Hours**

Examines application of high and low technology assistive devices for students with intensive intervention needs. Analysis of technology needs; selection/development of technology; training/evaluation of technology use by students. 20 clinical hours.

**Prerequisite:** Admission to advanced study; and SPED 43050 or SPED 43051.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPED 43092 DEAF RESIDENTIAL SCHOOL FIELD EXPERIENCE (ELR) 1 Credit Hour**

(Repeatable for credit) Week-long practicum at a residential school for the deaf; 24-hour interaction with deaf students and adults. Students stay on campus. Conduct, interaction, sign language skills, maturity, responsibility and performance are evaluated by staff at the school.

**Prerequisite:** Admission to advanced study or admission to professional phase; and ASL 49309 or SPED 43309.

**Pre/corequisite:** ASL 29202.

**Schedule Type:** Practical Experience

**Contact Hours:** 8.33 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**Attributes:** Experiential Learning Requirement

**SPED 43306 FUNDAMENTALS OF AUDIOLOGY FOR STUDENTS WITH HEARING LOSS 3 Credit Hours**

(Slashed with SPED 53306) This course focuses on providing non-audiology majors, specifically deaf education, educational interpreting, and ASL majors, with knowledge to support and serve children with a variety of hearing disorders in the educational setting.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPED 43307 LISTENING, LANGUAGE AND PHONEMIC DEVELOPMENT FOR INDIVIDUALS WITH HEARING LOSS 3 Credit Hours**

(Slashed with SPED 53307) This class focuses on listening, language and phonemic development for individuals with hearing loss. Specific areas will focus on typical language development and the impacts of hearing loss on language development in receptive, expressive, semantic, phonological, social, morphological and syntactical domains with an emphasis on reading and written language. The Auditory-Visual continuum, SCALES, along with strategies for zone of development will be focused on with auditory development strategies.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter



**SPED 43309 INTRODUCTION TO DEAF STUDIES (ELR) (WIC) 3 Credit Hours**

(Cross-listed with ASL 49309) (Slashed with SPED 53309) Introductory survey course designed to provide informational base and understanding of the unique experiences of Deaf people as a cultural minority. Course includes a discussion of: the history of deaf education, etiology and prevalence data, service delivery systems, the process of diagnosis and discovery of hearing loss, issues associated with assessment, and the various communication systems used by deaf individuals. Specifically, topics discussed will include historical, medical, and cultural perspectives regarding the interactions between Deaf and hearing cultural groups and the resulting impact on social, academic-educational, and vocational experiences of deaf children, adults, and their families.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Experiential Learning Requirement, Writing Intensive Course

**SPED 43310 LANGUAGE DEVELOPMENT FOR DEAF AND HARD-OF-HEARING STUDENTS 3 Credit Hours**

(Slashed with SPED 53310) Reviews research, theories and theorists in the field of language development for hearing and deaf children; develops awareness of language differences commonly demonstrated by deaf and hard-of hearing children; demonstrates ways to assess linguistic differences and facilitate instruction. Six topic areas include theories of language development (review), language and cognition, normal language acquisition in signed and spoken languages, child-caregiver interaction, language learning in a bilingual setting and language assessment.

Students gain foundational understanding of language development and awareness of classroom applications for this knowledge. Includes 20 hours of field-lab experience. Deaf Education majors must achieve a minimum grade of B (3.000) in SPED 43309 before registering for this course.

**Prerequisite:** Admission to advanced study; and SPED 43309; and ASL 19202; and special education major or ASL english interpreting major.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPED 43311 INSTRUCTION OF DEAF/HARD-OF-HEARING STUDENTS WITH SPECIAL NEEDS 3 Credit Hours**

IEP and transition planning strategies and program content for deaf/hard-of-hearing students w/ADHD, BD, DD, VI, DB, LD, CMI, TBI, chronically health impaired/medically fragile, gifted. Curriculum and lesson development and adaptation for impacted areas.

**Prerequisite:** Admission to advanced study; and SPED 43313 with a minimum B grade.

**Corequisite:** 2 credit hours of SPED 43392.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPED 43313 LITERACY ASSESSMENT AND INTERVENTION FOR DEAF/HARD-OF-HEARING STUDENTS 6 Credit Hours**

(Slashed with SPED 53313) Theoretical overview of integrated linguistics curriculum and reading theories. Strategies to address DHH difficulties and barriers, instructional planning and materials design, and ongoing assessment strategies. Course includes a practicum placement.

**Prerequisite:** Admission to advanced study; and SPED 43310 with a minimum B grade; and CI 47504 or ECED 40126.

**Pre/corequisite:** ASL 29202.

**Corequisite:** 2 credit hours of SPED 43392.

**Schedule Type:** Lecture

**Contact Hours:** 6 lecture

**Grade Mode:** Standard Letter

**SPED 43324 CURRICULUM METHODS AND MATERIALS FOR DEAF/HARD-OF-HEARING STUDENTS 3 Credit Hours**

Designed to provide students with basic knowledge and skills needed to effectively design and implement instruction for deaf and hard-of-hearing students. Conducted through a combination of lectures, discussions, demonstrations and group activities. Upon successful completion, students possess foundational understanding of how to design and implement lessons and curriculum with students who are deaf and hard of hearing.

**Prerequisite:** Admission to advanced study; and SPED 43313 with a minimum C grade; CI 47501 and 47502.

**Corequisite:** 2 credit hours of SPED 43392.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPED 43392 PRACTICUM:DEAF EDUCATION (ELR) 1-3 Credit Hours**

(Repeatable for a maximum of 3 credit hours) This classroom and field-based experience is designed to provide students pre-service deaf education teachers with the opportunity to develop professional-level skills in working with deaf and hard-of-hearing (DHH) students. The field component will provide experience in working with DHH students with diverse needs, disabilities and ethnic-cultural backgrounds. The class will address appropriate lesson planning and implementation and meets at least 6 times per semester.

**Prerequisite:** None.

**Schedule Type:** Practical Experience

**Contact Hours:** 3-9 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**Attributes:** Experiential Learning Requirement

**SPED 43953 FAMILY PROFESSIONAL COLLABORATION IN EARLY CHILDHOOD 3 Credit Hours**

The course is specifically designed to examine issues facing families and professionals serving young children with disabilities and those who are at-risk. This course will provide students with theory, general principles, and procedures for fostering partnerships among families, professionals, students, and other stakeholders that lead to outcomes of individual and mutual empowerment.

**Prerequisite:** Minimum 2.750 overall GPA; and junior or senior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPED 43954 PRACTICAL APPLICATION: TEAMING 3 Credit Hours**

The purpose of this course is to help students understand and apply the principles of effective collaborative teaming as related to their professional roles and responsibilities in a variety of educational settings serving young children with disabilities. A range of topics will be addressed throughout the course, including team models, consultation, reflective practices, effective meetings, conflict resolution and communication skills and coaching.

**Prerequisite:** Minimum 2.750 overall GPA; and junior or senior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPED 43955 TYPICAL AND ATYPICAL DEVELOPMENT IN YOUNG CHILDREN 3 Credit Hours**

This course provides an overview of typical and atypical development in young children from birth through age eight, both at the pre-natal and peri-natal levels. Traditional and modern theories of development are discussed within an ecological framework, with an emphasis on brain research, risk factors, culture, and the implications of atypical development as it relates to play and learning. Emphasis on the interrelatedness of development as well as the sequences of development (pedagogical, developmental and logical) is explored.

**Prerequisite:** Minimum 2.750 overall GPA; and junior or senior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPED 43958 FOUNDATIONS IN EARLY CHILDHOOD SERVICES 3 Credit Hours**

This course is designed to provide an overview of topics and issues in regard to young children with disabilities within the context of family and current society. This course is a foundational course relevant to early childhood intervention (ECI) professionals from a variety of fields, and includes the current practices in serving young children and their families. All the information provided is interdisciplinary, inclusive and family-focused by nature. The core principles of the Individuals with Disabilities Education Improvement Act (IDEIA) will be reviewed with specific emphasis on Part B 619 and Part C provisions.

**Prerequisite:** Minimum 2.750 overall GPA; and junior or senior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPED 43964 ASSESSMENT AND EVALUATION IN EARLY INTERVENTION AND EARLY CHILDHOOD SPECIAL EDUCATION 3 Credit Hours**

This course provides an overview of assessment and evaluation in early childhood services. We will examine a range of systems for comparing and observing early childhood services, practices, for young children and families including: screening, eligibility, programmatic assessment, performance monitoring, program evaluation, and accountability. The theoretical concepts of assessment and program evaluation in early childhood services will be investigated in this course, and there will also be opportunities for you to apply this knowledge of assessment instruments, curriculum and instructional strategies and program evaluation methods to intervention settings. Issues and trends related to assessing young children with disabilities (e.g., assessing family outcomes, cultural and linguistic differences) will also be discussed.

**Prerequisite:** Minimum 2.750 overall GPA; and junior or senior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPED 43991 SEMINAR IN SPECIAL EDUCATION 1-3 Credit Hours**

(Repeatable for credit) Undergraduate seminar in special education; varied topics.

**Prerequisite:** Admission to advanced study.

**Schedule Type:** Seminar

**Contact Hours:** 1-3 other

**Grade Mode:** Standard Letter

**SPED 43992 FIELD EXPERIENCE IN SPECIAL EDUCATION (ELR) 3 Credit Hours**

Provides opportunity to observe master teachers and begin working with students. Students are placed in education-based settings and work with a team of professionals to understand techniques for providing services to students with exceptionalities. Additional seminar meetings.

**Prerequisite:** SPED 23000.

**Schedule Type:** Practical Experience

**Contact Hours:** 9 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**Attributes:** Experiential Learning Requirement

**SPED 43995 SPECIAL TOPICS IN SPECIAL EDUCATION 1-4 Credit Hours**

(Repeatable for credit) Selected topics intended to encourage interdisciplinary study to cover areas not treated adequately in traditional coursework and to make available promptly the new and significant experience of faculty within Special Education.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 1-4 lecture

**Grade Mode:** Standard Letter

**SPED 43996 INDIVIDUAL INVESTIGATION IN SPECIAL EDUCATION 1-10 Credit Hours**

(Repeatable for credit) (Cross-listed with ASL 49096)

**Prerequisite:** Special approval.

**Schedule Type:** Individual Investigation

**Contact Hours:** 1-10 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**SPED 44020 MEDICAL ASPECTS OF AUTISM SPECTRUM DISORDERS 3 Credit Hours**

(Cross-listed with SPA 44020) Description of medical issues facing individuals with autism spectrum disorders (ASD) and their families. Examination of etiology, co-occurring disabilities and disorders, and treatment options in relation to individuals with ASD.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPED 44092 FIELD EXPERIENCE FOR MILD/MODERATE INTERVENTION SPECIALIST (ELR) 3 Credit Hours**

Field assignments in conjunction with mild-moderate coursework. Evaluates students in personal conduct, communication skills, instructional design and methods, and impact on student learning aligned with CEC standards.

**Prerequisite:** Admission to advanced study.

**Corequisite:** SPED 43062.

**Schedule Type:** Practical Experience

**Contact Hours:** 9 other

**Grade Mode:** Satisfactory/Unsatisfactory

**Attributes:** Experiential Learning Requirement

**SPED 44192 FIELD EXPERIENCE FOR MODERATE/INTENSIVE INTERVENTION SPECIALIST (ELR) 3 Credit Hours**

(Repeatable for credit) Field assignments in conjunction with moderate-intensive coursework. Evaluates students in personal conduct, communication skills, instructional design and methods, and impact on student learning aligned with CEC standards.

**Prerequisite:** Admission to advanced study.

**Corequisite:** SPED 43063.

**Schedule Type:** Practical Experience

**Contact Hours:** 9 other

**Grade Mode:** Satisfactory/Unsatisfactory

**Attributes:** Experiential Learning Requirement

**SPED 44309 AUTISM SPECTRUM DISORDERS: THEORY AND DIAGNOSIS 3 Credit Hours**

(Cross-listed with SPA 64309 and SPA 74309) (Slashed with SPED 64309) Provides an overview of Autism Spectrum Disorders (ASD). Examines the history, characteristics, and prevalence of ASD. Assessment and intervention models are explored as they relate to various theoretical models for understanding ASD.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPED 44492 STUDENT TEACHING IN SPECIAL EDUCATION (ELR) 4-9 Credit Hours**

Provides opportunity to demonstrate skills in teaching. Students placed in education-based settings; assume total teaching responsibilities of students with exceptionalities for 480 clock hours under the supervision of the school-based mentor teacher and the university supervisor.

Students are required to complete Bureau of Criminal Investigation and Identification (BCII) and Federal Bureau of Investigation (FBI) background checks and submit the results to authorized personnel at their assigned school-agency before the first day of the semester in which student teaching internship will take place. Official valid certification of Child Safety Training, approved Basic Life Support and A.L.I.C.E. Training must be presented to the campus office of clinical experience or designated faculty-staff at Regional campuses as prerequisite for student teaching. Training must be presented to the campus office of clinical experience or designated faculty/staff at college of applied and technical studies' campuses as prerequisite for student teaching.

**Prerequisite:** Admission to advanced study; and official valid certification of child safety Training, approved Basic Life Support and ALICE.

**Corequisite:** SPED 49525.

**Schedule Type:** Practical Experience

**Contact Hours:** 17-35 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**Attributes:** Experiential Learning Requirement

**SPED 44951 CREATING LEGALLY DEFENSIBLE INDIVIDUAL FAMILY SERVICE PLANS AND INDIVIDUALIZED EDUCATION PROGRAMS (WIC) 3 Credit Hours**

In this course, students will become familiar with the federal law and state rules as well as recommended practices governing IFSP and IEP development. Students will use this knowledge to competently develop and prepare to implement IFSP outcomes and strategies, and or IEP goals, objectives and benchmarks through the identification of appropriate strategies as well as related supports and services. Family-centered, strengths-based planning and collaboration within the teaming approach will be emphasized. Students will learn about the process of facilitating the development, implementation, and monitoring of the IFSP and IEP as well as learn about the products of this process.

**Prerequisite:** Minimum 2.750 overall GPA; and junior or senior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Writing Intensive Course

**SPED 45089 VARIABLE TOPIC INTERNATIONAL EXPERIENCE IN SPECIAL EDUCATION (ELR) 1-4 Credit Hours**

(Slashed with SPED 55089 and SPED 75089) A faculty-led study abroad experience that integrates traditional classroom learning with experiential activities and site visits outside the United States. International experience courses may have pre- and post-travel classroom study. Course activities may include, but are not limited to, classroom study, research, field work, internships and service learning.

**Prerequisite:** None.

**Schedule Type:** International Experience

**Contact Hours:** 1-4 other

**Grade Mode:** Standard Letter-IP

**Attributes:** Experiential Learning Requirement

**SPED 45090 VARIABLE TOPIC STUDY AWAY EXPERIENCE IN SPECIAL EDUCATION (ELR) 1-4 Credit Hours**

(Slashed with SPED 55090 and SPED 75090) A faculty-led study out-of-classroom experience that integrates traditional classroom learning with experiential activities and site visits within the United States. Study away courses may have pre- and post-travel classroom study. Course activities may include, but are not limited to, classroom study, research, field work, internships and service learning.

**Prerequisite:** None.

**Schedule Type:** Study Away

**Contact Hours:** 1-4 other

**Grade Mode:** Standard Letter-IP

**Attributes:** Experiential Learning Requirement

**SPED 49525 INQUIRY SEMINAR INTO PROFESSIONAL PRACTICE 3 Credit Hours**

Focus on effective, ethical and responsible implication of professional practice. Provides vehicle to articulate and demonstrate professional competencies, commitment and ethical decision making for providing services to students.

**Prerequisite:** Admission to advanced study.

**Corequisite:** SPED 44492.

**Schedule Type:** Seminar

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**SPED 50093 VARIABLE TITLE WORKSHOP IN SPECIAL EDUCATION 1-5 Credit Hours**

(Slashed with SPED 40093 and 70093)(Repeatable for credit) Topics of special interest to students desiring to intensify their knowledge in particular areas. Presenters include Kent State University and other institution faculty. Offered irregularly.

**Prerequisite:** Graduate standing.

**Schedule Type:** Workshop

**Contact Hours:** 1-5 other

**Grade Mode:** Satisfactory/Unsatisfactory

**SPED 52030 ISSUES IN MODERATE-INTENSIVE DISABILITIES 3 Credit Hours**

(Slashed with SPED 42030) Addresses a variety of topics relevant to the education of students with moderate to intensive (MDIN) educational needs, including contemporary issues, evidence-based interventions and the understanding and addressing of mental health issues in educational environments. Prepares pre-service MDIN teachers to understand challenges they are likely to encounter in the classroom, and connects them with local and national professional development resources to help address those challenges.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPED 53010 FAMILY AND PROFESSIONAL COLLABORATION 3 Credit Hours**

(Slashed with SPED 43010) Course provides knowledge and strategies for working with family members of exceptional individuals and members of related professions who provide services to them. Use of collaborative, interdisciplinary and inter-agency models in special education. Students undertake 20 clinical and 10 field hours.

**Prerequisite:** SPED 63200; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPED 53021 ASSESSMENT FOR SPECIAL EDUCATION 3 Credit Hours**

(Slashed with SPED 43021) Investigates issues and methods for assessing the academic, behavioral, physiological, mental health, and life skills of individuals with mild, moderate, and intensive disabilities. Interpretation of norm- and criterion formal assessments, creation of alternative assessments, modification of informal assessments, ecological and community-based assessments specific to individuals with low incidence and multiple disabilities.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPED 53022 INDIVIDUALIZED PROGRAMMING AND ASSESSMENT IN SPECIAL EDUCATION 3 Credit Hours**

(Slashed with SPED 43022) Course provides students with the knowledge and skills to select appropriate screening and assessment tools for the purpose of determining eligibility for special education services. In addition, students learn how to administer, score and use assessment results to develop an Individualized Education Program (IEP) for students identified with disabilities.

**Prerequisite:** SPED 24000; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPED 53030 APPLIED BEHAVIOR ANALYSIS I: THEORY AND TECHNIQUES 3 Credit Hours**

Theory and techniques associated with applied behavior analysis. Approaches for establishing, implementing, maintaining and monitoring skill development are emphasized. Procedures for assessing and modifying classroom environments/instructional techniques to enhance learning/behavior of individuals with disabilities, with specific emphasis on preventing, increasing positive and decreasing inappropriate behavior are introduced. 25 field hours.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPED 53031 APPLIED BEHAVIOR ANALYSIS II: APPLICATION 3 Credit Hours**

Equips students with the skills necessary to integrate the technology of applied behavior analysis (as learned in SPED 43030, Applied Behavior Analysis I) with the analytical skills necessary to prevent, teach, manage and assess behavior. Specific behavioral interventions are presented. Includes 40 field hours.

**Prerequisite:** SPED 53030; and graduate standing.

**Schedule Type:** Field Experience, Lecture

**Contact Hours:** 1 lecture, 2 other

**Grade Mode:** Standard Letter

**SPED 53040 LANGUAGE AND READING IN SPECIAL EDUCATION 3 Credit Hours**

(Slashed with SPED 43040) This course focuses on instructional approaches to teaching language and reading to students with disabilities. The major emphasis throughout the course will be on research based techniques to improve student reading performance, focusing on the direct instruction approach to teaching reading. The course will also include intervention strategies to adapt instructional techniques, materials and assessments to meet the needs of diverse learners with disabilities.

**Prerequisite:** SPED 63200; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPED 53041 SUPPLEMENTAL AND INTENSIVE INSTRUCTION FOR MATHEMATICAL DIFFICULTIES 3 Credit Hours**

(Slashed with SPED 43041) This course provides students with the knowledge and skills to plan, deliver, and evaluate supplemental and intensive math instruction using research-based programs and practices. Data based individualization will be used to determine what and how to teach to promote mastery and understanding of critical math skills and concepts. Students learn effective strategies and instructional approaches for improving outcomes for students experiencing persistent difficulties learning math, including students with disabilities.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter



**SPED 53050 CHARACTERISTICS OF STUDENTS WITH MILD/MODERATE INTERVENTION NEEDS 3 Credit Hours**

Definitions, causes, characteristics; social, educational implications of learning developmental and emotional behavioral disorders of students identified with mild/moderate disabilities. Methods of assessment and interventions; current issues. 10 clinical and 10 field hours.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPED 53051 CHARACTERISTICS OF STUDENTS WITH MODERATE/INTENSIVE INTERVENTION NEEDS 3 Credit Hours**

Overview of specific facets and causes of severe disabilities, physical/psychological aspects family/societal responses, political trends, etiology and medical implications, educational and vocational programming, assessment and treatment planning, assistive technology. 10 clinical 10 field hours.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPED 53060 CURRICULUM METHODS IN SPECIAL EDUCATION 3 Credit Hours**

Curriculum development, programming, delivery for students with mild to moderate disabilities. Introduction to transition planning. Emphasis on functional curriculum and adapting instructional techniques, materials, assessment to meet needs. 33 field clinical hours.

**Prerequisite:** Graduate standing.

**Schedule Type:** Field Experience, Lecture

**Contact Hours:** 3 lecture, 33 other

**Grade Mode:** Standard Letter

**SPED 53062 CURRICULUM METHODS MILD/MODERATE INTERVENTION 3 Credit Hours**

(Slashed with SPED 43062) Effective methods for teaching students with mild to moderate disabilities. Research-based practices for individualizing the general education curriculum. Emphasis on specially designed instruction, collaboration, and team-based problem solving.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPED 53063 CURRICULUM METHODS MODERATE/INTENSIVE INTERVENTION 3 Credit Hours**

(Slashed with SPED 43063) Delivery and adaptation of evidence based practices for students with moderate to intensive educational needs. An emphasis is placed on instruction of functional academic and life skills within naturalistic contexts.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPED 53070 PLANNING AND PROGRAMMING FOR TRANSITIONS 3 Credit Hours**

This course addresses life-span community participation and the planning, support, development, and services available to accomplish it. Introduction to community agencies and adult services. 10 clinical 15 field hours.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPED 53080 ASSISTIVE TECHNOLOGY FOR STUDENTS WITH DISABILITIES 3 Credit Hours**

Examines application of high and low technology assistive devices for students with intensive intervention needs. Analysis of technology needs; selection/development of technology; training/evaluation of technology use by students. 20 clinical hours.

**Prerequisite:** SPED 53050 or SPED 53051; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPED 53092 DEAF RESIDENTIAL SCHOOL FIELD EXPERIENCE 1 Credit Hour**

(Slashed with SPED 43092) Week-long practicum at a residential or post-secondary school for the deaf; 24-hour per day interaction with deaf students and adults to learn about and participate in activities, resources, and programs and interact with staff with expertise in deafness.

**Prerequisite:** SPED 53309; and graduate standing.

**Pre/corequisite:** ASL 29202.

**Schedule Type:** Practical Experience

**Contact Hours:** 8 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**SPED 53100 SURVEY OF THE INTERPRETING PROFESSION 3 Credit Hours**

(Cross-listed with ASEI 43100) Introduction to the field of ASL-English interpreting. The following will be discussed: the history of the interpreting profession; the varied roles-responsibilities of interpreters; issues and concerns facing interpreters; legal mandates and constraints governing the provision of interpreters; ethical guidelines and their application to educational environments. Since interpreters are expected to be fluent in both English and ASL, this course will strive to enhance students' facility with both languages.

**Prerequisite:** ASL 19202; and graduate standing.

**Pre/corequisite:** ASL 29201.

**Corequisite:** SPED 53106.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPED 53101 DEAF CULTURE AND COMMUNITY 3 Credit Hours**

(Slashed with ASL 49401) Exploration of historical events and figures from deaf community perspective. Life experiences of 'typical' deaf individuals as minority culture representatives interacting with majority culture institutions and processes as depicted in narrative storytelling and folklore.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter



**SPED 53102 INTERPRETING PROCESSES I 3 Credit Hours**

(Cross-listed with ASEI 43102) Beginning level interpreting course that examines the models of interpreting and their application to practice. Consecutive and simultaneous interpreting strategies are used to develop processing skills for both English to ASL and ASL to English interpretations. Samples of narrative genre are the texts used for interpretations as students examine the linguistic and cultural differences between ASL and English narratives.

**Prerequisite:** ASL 29202; and SPED 53100; and SPED 53107; and graduate standing.

**Corequisite:** ASL 39201 and SPED 53105.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPED 53103 INTERPRETING PROCESSES II 3 Credit Hours**

(Slashed with SPED 43103) Intermediate level interpreting course that challenges students to interpret the more complex genres including expository, procedural, and argumentative texts. Students will study and apply contextualization strategies. Discourse that is common to both the adult deaf community and educational settings will be interpreted and transliterated. There will be clinical application hours that students will need to accrue in this course.

**Prerequisite:** ASL 29202 and SPED 53102; and graduate standing.

**Pre/corequisite:** ASL 39201.

**Corequisite:** SPED 53310 and SPED 53111.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPED 53104 INTERPRETING PROCESSES III 3 Credit Hours**

(Slashed with SPED 43104) Advanced level interpreting course focused on enhancing students' English to ASL and ASL to English skills in a variety of settings. Complex texts are selected from a variety of disciplines from both community and educational settings. Students build on previously developed self-assessment skills to create detailed and analytical diagnostic charts of their interpreted work. There will be clinical application hours that students will need to accrue in this course.

**Prerequisite:** ASL 39202 and SPED 53107; and SPED 53092; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPED 53105 TRANSLITERATING 3 Credit Hours**

(Cross-listed with ASEI 43105) Students are exposed to the various English-based sign systems that are used in the education of deaf students as well as variations of sign communication in the deaf community. Focus is placed on developing transliterating skills utilizing conceptually accurate signed English. Students examine the implications of a diverse sign continuum and the professional expectation of identifying and meeting the language preferences of deaf consumers.

**Prerequisite:** SPED 53100 and ASL 29202; and graduate standing.

**Corequisite:** ASL 39201 and SPED 53102.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPED 53106 SCHOOL SETTING INTERPRETING 3 Credit Hours**

(Slashed with ASEI 43106) Issues, challenges, roles, responsibilities, and ethics of classroom-based educational interpreting are explored. Students are exposed to the variety of classroom designs where interpreters work such as mainstreaming, inclusion, resource room, and self-contained classrooms. K-12 settings place additional expectations for interpreter participation including IEP meetings, counseling, school assemblies and performing arts presentations.

**Prerequisite:** ASL 19201; ASL english interpreting (ASEI) concentration within the special education major; and graduate standing; and special approval.

**Pre/corequisite:** ASL 29201.

**Corequisite:** SPED 53100.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPED 53107 COMMUNITY SETTING INTERPRETING 3 Credit Hours**

(Cross-listed with ASEI 43107) This course explores the various venues that interpreters can work in the community. Emphasis will be given to the development of specialized vocabulary. Students participate in mock interpreting situations common to community interpreting in order to identify ethical dilemmas, demands and controls.

**Prerequisite:** Admission to the ASL english interpreting concentration with the special education major; and ASL 29201; SPED 53100; and SPED 53106; and graduate standing.

**Corequisite:** ASL 29202.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPED 53108 AMERICAN SIGN LANGUAGE LINGUISTICS AND USAGE 3 Credit Hours**

(Cross-listed with ASL 49108) Analytical study of American Sign Language syntactic, semantic, morphology and pragmatics; comparison of spoken languages and ASL using the Stokoe system, impact of educational-setting characteristics on linguistic processes.

**Prerequisite:** SPED 4/53100; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPED 53110 DISCOURSE ANALYSIS FOR INTERPRETERS 3 Credit Hours**

(Cross-listed with ASEI 43110) This course will explore the field of discourse analysis and its relation to the work of an interpreter. Students will complete the course with an understanding of terminology specific to discourse analysis, a better understanding of one's own discourse style, and a better idea of how English and ASL use various discourse features. These features include the following: Turn-taking, Conversational Repair - false starts, Discourse Markers, Constructing Dialogue & Action, Cohesion, Rhythm, Rhyme, and Repetition.

**Prerequisite:** ASL 39201; and SPED 53100 and SPED 53102 and SPED 53106 and SPED 53107.

**Corequisite:** SPED 53103.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPED 53111 THE PROFESSIONAL INTERPRETER 3 Credit Hours**

Covers current trends in the field regarding situational and ethical issues. Demand-Control Schema and the RID Code of Professional Conduct are key components of the students' investigation and application. Students receive guidance in preparing for the RID performance test.

**Prerequisite:** ASL 29202; and SPED 53100 and SPED 53107; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPED 53112 INTERACTIVE INTERPRETING 3 Credit Hours**

(Cross-listed with ASEI 43112) Guides students through a process of examining the complex nature of interpreting interactive discourse.

Discussions will focus on managing this multi-layered process when participants' roles, assumptions, and goals can be congruent or adversarial. Student will learn to navigate contrasting cultural, linguistic, and discourse expectations. This course will present numerous interactive scenarios for students to interpret typical of a variety of settings with different participant configurations.

**Prerequisite:** ASL 29202 with a minimum C grade; and SPED 53100 and SPED 53103.

**Corequisite:** SPED 53102.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPED 53113 ASL TO ENGLISH INTERPRETING PROCESSES 3 Credit Hours**

(Cross-listed with ASEI 43113) Guides students in developing interpreting skills from their L2 (ASL) to their L1 (English). Students will learn strategies for increasing their ASL and English vocabularies for the purposes of understanding equivalents when applying English vocabulary to ASL signs. Students will examine their ability to apply this proficiency to various registers of ASL. Course will also emphasize incorporating Academic English into written scholarly appears to increase students' abilities to apply this to their interpretations.

**Prerequisite:** ASL 29202 and SPED 53100; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPED 53118 MEDICAL INTERPRETING 3 Credit Hours**

This course provides students with the opportunity to explore medical topics, terminologies, and areas of practice to enable them to more effectively meet the needs of deaf patients in a variety of healthcare settings. This course is designed to equip students with basic skills and knowledge to meet the demands of this setting. Students in this course will become familiar with body systems structures, functions, and common conditions-diseases affecting these systems. Students will be exposed to a variety of medical protocols, scripts, testing procedures, and areas of medical practice. As a result, students will be able to interpret medical information into ASL-appropriate structures. They will specifically be able to apply strategies of depiction and spatial mapping.

**Prerequisite:** SPED 53102; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPED 53119 MENTAL HEALTH INTERPRETING 3 Credit Hours**

This course will provide students with a foundation of common diagnoses, mental health professionals and their various roles, common mental health settings interpreters may work, and terminology paired with ASL equivalents. This course will also emphasize the relationship between interpreter and mental health professional, providing skill sets in which to pre- and -post conference to ensure an accurate interpretation in rendered, and the goals of therapist-professional have been met.

**Prerequisite:** SPED 53103; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPED 53192 ADVANCED PRACTICUM: ASL ENGLISH INTERPRETING 1-9 Credit Hours**

(Repeatable for credit) Field-based practicum experience provides pre-service interpreters with opportunity to learn from currently practicing master educational and-or community interpreters. Students will be placed in education and-or community settings. University supervisor and teacher mentor observe and assess student skill. Students are required to complete Bureau of Criminal Investigation and Identification (BCII) and Federal Bureau of Investigation (FBI) background checks and submit the results to authorized personnel at their assigned school-agency before the first day of the semester in which the internship will take place. Official valid certification of Child Safety Training, approved Basic Life Support, and A.L.I.C.E. Training must be presented to the campus office of clinical experience or designated faculty-staff at Regional campuses before registering for this course. Students must pass the SLPI or ASLPI on or before Oct. 31st the semester prior. A 3.000 major GPA is required.

**Prerequisite:** SPED 53104, SPED 53112 and ASL 49108; minimum 2.75 overall GPA; and graduate standing; and special approval.

**Schedule Type:** Practical Experience

**Contact Hours:** 3-27 other

**Grade Mode:** Satisfactory/Unsatisfactory

**SPED 53306 FUNDAMENTALS OF AUDIOLOGY FOR STUDENTS WITH HEARING LOSS 3 Credit Hours**

(Slashed with SPED 43306) This course focuses on providing non-audiology majors, specifically deaf education, educational interpreting, and ASL majors, with knowledge to support and serve children with a variety of hearing disorders in the educational setting.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPED 53307 LISTENING, LANGUAGE AND PHONEMIC DEVELOPMENT FOR INDIVIDUALS WITH HEARING LOSS 3 Credit Hours**

(Slashed with SPED 43307) This class focuses on listening, language and phonemic development for individuals with hearing loss. Specific areas will focus on typical language development and the impacts of hearing loss on language development in receptive, expressive, semantic, phonological, social, morphological and syntactical domains with an emphasis on reading and written language. The Auditory-Visual continuum, SCALES, along with strategies for zone of development will be focused on with auditory development strategies.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPED 53309 INTRODUCTION TO DEAF STUDIES 3 Credit Hours**  
(Cross-listed with ASL 49309) (Slashed with SPED 43309) Introductory survey course designed to provide informational base and understanding of the unique experiences of Deaf people as a cultural minority. Course includes a discussion of: the history of deaf education, etiology and prevalence data, service delivery systems, the process of diagnosis and discovery of hearing loss, issues associated with assessment, and the various communication systems used by deaf individuals. Specifically, topics discussed will include historical, medical, and cultural perspectives regarding the interactions between Deaf and hearing cultural groups and the resulting impact on social, academic-educational, and vocational experiences of deaf children, adults, and their families.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPED 53310 LANGUAGE DEVELOPMENT FOR DEAF AND HARD-OF-HEARING STUDENTS 3 Credit Hours**

Reviews research, theories and theorists in the field of language development for hearing and deaf children; develops awareness of language differences commonly demonstrated by deaf and hard-of-hearing children; demonstrates ways to assess linguistic differences and facilitate instruction. Six topic areas include theories of language development (review), language and cognition, normal language acquisition in signed and spoken languages, child-caregiver interaction, language learning in a bilingual setting and language assessment. Students gain foundational understanding of language development and awareness of classroom applications for this knowledge. Includes 20 hours of field-lab experience. Deaf Education majors must achieve a minimum grade of B (3.000) in SPED 53309 before registering for this course.

**Prerequisite:** SPED 53309 and ASL 19202; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPED 53311 INSTRUCTION OF DEAF/HARD-OF-HEARING STUDENTS WITH SPECIAL NEEDS 3 Credit Hours**

IEP and transition planning strategies and program content for deaf/hard-of-hearing students with ADHD, BD, DD,VI,DB, LD, CMI, TBI, chronically health impaired/medically fragile, gifted. Curriculum and lesson development and adaptation for impacted areas.

**Prerequisite:** SPED 53313 with a minimum B grade; and graduate standing.

**Corequisite:** 2 credit hours of SPED 63392.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPED 53313 LITERACY ASSESSMENT AND INTERVENTION FOR DEAF/HARD-OF-HEARING STUDENTS 6 Credit Hours**

Theoretical overview of integrated linguistics curriculum and reading theories. Strategies to address DHH difficulties and barriers, instructional planning and materials design, and ongoing assessment strategies. Course includes a practicum placement.

**Prerequisite:** SPED 53310 with a minimum B grade; and CI 67310 or CI 57504; and graduate standing.

**Pre/corequisite:** ASL 29202 and 2 credit hours of SPED 63392.

**Schedule Type:** Lecture

**Contact Hours:** 6 lecture

**Grade Mode:** Standard Letter

**SPED 53316 EARLY CHILDHOOD DEAF EDUCATION: FAMILY AND CHILD SERVICE PROVISION 3 Credit Hours**

Targets the issues and needs of young deaf/hard-of-hearing children and their families. Topics covered relate to service provision in the home and classroom for deaf/hard-of-hearing children from birth to 5 years of age. Includes 30 hours of work in a practicum placement with a young D/HH child and his/her family.

**Prerequisite:** SPED 4/53310; ASL/SPED 29202 or sign language proficiency interview (SLPI) at intermediate or above; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPED 53324 CURRICULUM METHODS AND MATERIALS FOR DEAF/HARD OF HEARING STUDENTS 3 Credit Hours**

Designed to provide students with basic knowledge and skills needed to effectively design and implement instruction for deaf and hard-of-hearing students. Conducted through a combination of lectures, discussions, demonstrations and group activities. Upon successful completion, students possess foundational understanding of how to design and implement lessons and curriculum with students who are deaf and hard of hearing.

**Prerequisite:** SPED 53313 with a minimum B grade; and CI 57501 and 57502; and graduate standing.

**Corequisite:** 2 credit hours of SPED 63392.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPED 53534 SOCIAL/EMOTIONAL COMPONENTS OF GIFTEDNESS 3 Credit Hours**

Affective growth of gifted persons is reviewed through research literature and analysis of case studies. Reviews adjustment problems of gifted youth and adults.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPED 55089 VARIABLE TOPIC INTERNATIONAL EXPERIENCE IN SPECIAL EDUCATION 1-4 Credit Hours**

(Slashed with SPED 45089 and SPED 75089) A faculty-led study abroad experience that integrates traditional classroom learning with experiential activities and site visits outside the United States. International experience courses may have pre- and post-travel classroom study. Course activities may include, but are not limited to, classroom study, research, field work, internships and service learning.

**Prerequisite:** Graduate standing.

**Schedule Type:** International Experience

**Contact Hours:** 1-4 other

**Grade Mode:** Standard Letter-IP

**SPED 55090 VARIABLE TOPIC STUDY AWAY EXPERIENCE IN SPECIAL EDUCATION 1-4 Credit Hours**

(Slashed with SPED 45090 and SPED 75090) A faculty-led study out-of-classroom experience that integrates traditional classroom learning with experiential activities and site visits within the United States. Study away courses may have pre- and post-travel classroom study. Course activities may include, but are not limited to, classroom study, research, field work, internships and service learning.

**Prerequisite:** Graduate standing.

**Schedule Type:** Study Away

**Contact Hours:** 1-4 other

**Grade Mode:** Standard Letter-IP

**SPED 60199 THESIS I 2-6 Credit Hours**

Thesis students must register for a total of 6 hours, 2 to 6 hours in a single semester distributed over several semesters if desired.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Masters Thesis

**Contact Hours:** 2-6 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**SPED 60299 THESIS II 2 Credit Hours**

Thesis students must continue registration each semester until all degree requirements are met.

**Prerequisite:** SPED 60199; and graduate standing.

**Schedule Type:** Masters Thesis

**Contact Hours:** 2 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**SPED 62951 EARLY INTERVENTION IN NATURAL ENVIRONMENTS 3 Credit Hours**

This seminar targets early childhood special education and intervention professionals that comprise the field of early intervention from practitioners to future leaders in the field. Recommended practice guidelines of the Division for Early Childhood (DEC) indicate that interventions should be embedded and distributed within and across the routines, activities and places that are part of the child's daily experience. In keeping with DEC recommendations, this course will explore issues related to the various natural environments of the children in search of the routines, activities, and places that offer the maximum learning and practice opportunities that are family centered, developmentally and individually appropriate, culturally sensitive, and least intrusive.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPED 63030 PHARMACOLOGICAL INTERVENTIONS IN SPECIAL EDUCATION 3 Credit Hours**

Introduce mechanisms by which drugs act; identify benefits/side effects; implications for delivery/ intervention; monitoring in classroom. Classes of drugs examined; issues examined; delineation of responsibilities and prohibitions.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPED 63031 PROGRAM DEVELOPMENT IN APPLIED BEHAVIOR ANALYSIS 3 Credit Hours**

Describe and apply methodology and research design in developing and monitoring the effectiveness of behavioral interventions and to use such information to evaluate overall program efficacy. Consideration is given to student characteristics (e.g., underlying disability) when developing and evaluating behavior programs based in applied behavior analysis. Use of specific tools for prioritizing behaviors, evaluating progress, and making treatment program decisions are presented. Issues related to treatment implementation fidelity and behavioral program development are also emphasized.

**Prerequisite:** Graduate standing.

**Pre/corequisite:** SPED 53030.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPED 63032 ADVANCED INTERVENTIONS FOR ADDRESSING SEVERE BEHAVIOR 3 Credit Hours**

Use and interpretation of functional behavioral assessment in educational settings to lead to the identification of empirically-supported interventions to address the behavioral needs of children. The development, implementation and analysis of functional analysis procedures. Special emphasis given to identifying designing, implementing and assessing the effectiveness of advanced behavioral interventions in consultation. 20 field hours.

**Prerequisite:** SPED 53030, SPED 53031, SPED 63031, SPED 63301 and SPED 63033; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPED 63033 ETHICAL AND PROFESSIONAL CONDUCT IN APPLIED BEHAVIOR ANALYSIS 3 Credit Hours**

This course provides an intensive focus on ethical and professional conduct as it applies to day-to-day implementation of applied behavior analytic strategies by professional behavior analysts. Responsible conduct of a behavior analyst, ethical responsibilities to clients, colleagues, the field of applied behavior analysis, and society are featured. BACB Guidelines for Responsible Conduct for Behavior Analyst and BACB Disciplinary and Ethical Standards are reviewed and studied. This course focuses on meeting the updated standards for ethics set forth by the Behavior Analyst Certification Board in the BACB Fourth Edition Task List.

**Prerequisite:** SPED 53030 and SPED 63031; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter



**SPED 63034 PRINCIPLES AND CONCEPTS IN APPLIED BEHAVIOR ANALYSIS 3 Credit Hours**

This course focuses on the advanced conceptual, philosophical, and theoretical underpinnings of applied behavior analysis and the research literature from which they were derived. This course is designed for those who will pursue certification through the Behavior Analyst Certification Board, and as such, delves deep into the technical aspects of the science of applied behavior analysis. Students will become fluent in such areas as the theories of behavior, principles of operant and respondent conditioning, stimulus class, automatic and socially mediated contingencies, motivating operations, and stimulus control, as well as be able to identify and describe examples of how they are used. Prerequisite: Admission to Behavior Intervention Specialist Certificate; and graduate standing

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPED 63092 FIELD EXPERIENCE IN SPECIAL EDUCATION 3 Credit Hours**

Provides opportunity to observe master teachers and begin working with students. Students are placed in education-based settings and work with a team of professionals to understand techniques for providing services to students with exceptionalities. Additional seminar meetings.

**Prerequisite:** Graduate standing.

**Schedule Type:** Practical Experience

**Contact Hours:** 9 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**SPED 63101 ADMINISTRATION AND SUPERVISION IN SPECIAL EDUCATION 3 Credit Hours**

Administration of educational programs for exceptional children; improvement of teacher competencies; function of special education supervisors; and special education operations at local, state and national levels.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPED 63200 INTRODUCTION TO EXCEPTIONALITIES 3 Credit Hours**

Introduction to exceptionalities of student development. Focus on foundations/theories associated with characteristics and accommodations for human exceptionalities. Collaborative/multidiscipline educational service design. Fifteen clinical/field hours.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPED 63201 CONTEMPORARY ISSUES IN SPECIAL EDUCATION 3 Credit Hours**

(Slashed with SPED 83201) Surveys current research, literature and policy issues that affect identification, assessment and service provision to students with exceptionalities.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPED 63204 LEGAL AND POLICY FOUNDATIONS OF SPECIAL EDUCATION 3 Credit Hours**

(Slashed with SPED 73204) This course will review the statutory and regulatory foundations of U.S. public policies pertaining to children and youth with disabilities. Key judicial interpretations of those policies will also be reviewed. The course will provide comprehensive overviews of The Individuals with Disabilities Education Act, The Every Student Succeeds Act, The Americans with Disabilities Act, The Vocational Rehabilitation Act, relevant sections of The Social Security Act. In addition, students will gain an awareness of miscellaneous other pieces of legislation and examples of case law pertaining to the education of students with disabilities.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPED 63300 RESEARCH APPLICATIONS IN SPECIAL EDUCATION 3 Credit Hours**

(Slashed with SPED 73300) Culminating experience in which students apply their content, methods and research skills to develop a final project that addresses an area of special education. Focuses on techniques for answering research questions, developing curriculum, and assimilating knowledge through applied projects.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter-IP

**SPED 63301 SINGLE SUBJECT RESEARCH METHODS 3 Credit Hours**

(Repeatable 2 times for credit) Research designs and techniques associated with behavioral observation and a description of single subject experimental methodology are presented. The study of this methodology includes topics related to applied behavior analysis, assessment, experimental design and data evaluation. In addition, single subject methods are discussed in relations to other research designs. 20 field hours.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter-IP

**SPED 63392 PRACTICUM IN DEAF EDUCATION 1-3 Credit Hours**

(Repeatable for a maximum of 3 credit hours) This classroom and field-based experience is designed to provide students pre-service deaf education teachers with the opportunity to develop professional-level skills in working with deaf and hard-of-hearing (DHH) students. The field component will provide experience in working with DHH students with diverse needs, disabilities and ethnic-cultural backgrounds. The class will address appropriate lesson planning and implementation and meets at least 6 times per semester.

**Prerequisite:** Graduate standing.

**Schedule Type:** Practical Experience

**Contact Hours:** 3-9 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP



**SPED 63533 GIFTED SUBPOPULATIONS 3 Credit Hours**

The characteristics and needs of intellectually gifted individuals who often are not high academic achievers are studied with consideration of the implications for school practices.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPED 63892 EARLY INTERVENTION INTERNSHIP 3 Credit Hours**

(Repeatable for a maximum of 9 credit hours) The Early Intervention Internship involves supervised observation and participation in an early intervention setting(s) for children ages birth to three with developmental delays and disabilities or supervised observation and participation in research and scholarly activities related to the development, delivery, and evaluation of early intervention services to children and their families. Students may be placed at a county board of developmental disabilities, center-, community-, or home-based early intervention program, a developmental center, childcare center, a neonatal intensive care unit (NICU) or other approved placement. The Early Intervention internship will provide students practical experience in an Early Intervention professional setting, one that allows students to develop and refine a variety of skills when working with infants and toddlers with disabilities and their families.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Field Experience

**Contact Hours:** 9 other

**Grade Mode:** Satisfactory/Unsatisfactory

**SPED 63949 AUTISM SPECTRUM DISORDER CAPSTONE 1-3 Credit Hours**

Knowledge and skills gained through participation in the Autism Spectrum Disorders (ASD) program are utilized to develop a project related to the education of individuals with ASD and-or the individuals who support them.

**Prerequisite:** Graduate standing.

**Schedule Type:** Individual Investigation

**Contact Hours:** 3-9 other

**Grade Mode:** Satisfactory/Unsatisfactory

**SPED 63950 CURRICULUM AND INTERVENTION IN EARLY CHILDHOOD SERVICES 3 Credit Hours**

(Slashed with SPED 73950) Knowledge about early childhood intervention (ECI) curriculum and intervention. Students will first learn about what evidence-based practice is, and the curriculum models for home-based and center-based settings. Students will then learn about the ECI multi-tiered systems of support framework, and the different characteristics and intervention strategies across tiers. At the end of the course, students will be ready to support the diverse needs of young children using the multi-tiered system of support in early childhood settings.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPED 63952 FAMILY AND PROFESSIONAL COLLABORATION IN EARLY CHILDHOOD 3 Credit Hours**

(Cross-listed with ECED 60159) Examines issues facing families and professionals serving young children who are at-risk, disabled and typically developing.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPED 63953 PRACTICAL APPLICATIONS:BIRTH TO FIVE 3 Credit Hours**

Practical application of recommended practices for young children birth-five. Observation of young children in natural environments. Plan and evaluate intervention with families and professionals. Sixty field hours.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPED 63954 PRACTICAL APPLICATIONS: TEAMING 3 Credit Hours**

The purpose of this course is to help students understand and apply the principles of effective collaborative teaming as related to their professional roles and responsibilities in a variety of educational settings serving young children with disabilities. A range of topics will be addressed throughout the course, including giving and receiving feedback, reflective practices, effective meeting, conflict resolution and communication skills, developing and providing quality professional development, supervising, coaching, mentoring, working with para-professionals, itinerant teaching, service coordination, and consulting with general educators.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPED 63955 TYPICAL AND ATYPICAL DEVELOPMENT IN YOUNG CHILDREN 3 Credit Hours**

Overview of typical and atypical development pathways from birth to grade 3 including: theories of behavior, implications of atypical development on play, learning, early childhood development within ecological framework.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPED 63956 FOUNDATIONS IN EARLY CHILDHOOD SERVICES 3 Credit Hours**

(Cross-listed with ECED 60156) (Slashed with SPED 73956) Overview of issues facing young children within context of family/society including: history, early childhood services, theoretical perspectives, implications of childhood disabilities, and recommended assessment intervention and evaluation.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPED 63957 ASSESSMENT AND EVALUATION OF EARLY CHILDHOOD SERVICES 3 Credit Hours**

(Slashed with SPED 73957) Examines a range of systems for comparing and observing early childhood services, practices, young children and families: types and purposes of assessment procedures and instruments, monitoring progress.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPED 63958 EARLY CHILDHOOD INTERVENTION METHODS 3 Credit Hours**

Specific strategies for working with children birth to eight with intensive needs (e.g. cerebral palsy, spina bifida, autism). 30 clinical hours will provide students with the opportunity to practice newly acquired intervention strategies, knowledge and skills.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPED 63959 MEDICAL ASPECTS OF LIFESPAN DISABILITIES 3 Credit Hours**

Description of medical issues facing individuals with lifespan disabilities and their families. Examination of etiology, co-occurring disabilities and disorders, and treatment options in relation to individuals with Autism Spectrum Disorders and other developmental disabilities.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPED 63991 SEMINAR IN SPECIAL EDUCATION 1-3 Credit Hours**

(Repeatable for credit) Various topics include: behavior modification, research problems in special education, theories in special education, social processes in special education.

**Prerequisite:** Graduate standing.

**Schedule Type:** Seminar

**Contact Hours:** 1-3 other

**Grade Mode:** Standard Letter

**SPED 63992 STUDENT TEACHING IN SPECIAL EDUCATION 4-8 Credit Hours**

(Repeatable for maximum of 8 credit hours) Provides opportunity to demonstrate skills in teaching. Students placed in education-based settings; assume total teaching responsibilities of students with exceptionalities for 480 clock hours under the supervision of the school-based mentor teacher and the university supervisor. Students are required to complete Bureau of Criminal Investigation and Identification (BCII) and Federal Bureau of Investigation (FBI) background checks and submit the results to authorized personnel at their assigned school agency before the first day of the semester in which student teaching internship will take place. Official valid certification of Child Safety Training, approved Basic Life Support and A.L.I.C.E. Training must be presented to the campus office of clinical experience or designated faculty-staff at Regional campuses as prerequisite for student teaching. Training must be presented to the campus office of clinical experience or designated faculty/staff at college of applied and technical studies' campuses as prerequisite for student teaching; and graduate standing; and special approval.

**Prerequisite:** Official valid certification of Child Safety Training, approved Basic Life Support and ALICE.

**Corequisite:** SPED 69525.

**Schedule Type:** Practical Experience

**Contact Hours:** 17-35 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**SPED 63995 SPECIAL TOPICS IN SPED 1-3 Credit Hours**

(Repeatable for credit) Specialized offerings in response to emerging or selected program needs.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 1-3 lecture

**Grade Mode:** Standard Letter

**SPED 63996 INDIVIDUAL INVESTIGATION IN SPECIAL EDUCATION 1-10 Credit Hours**

(Repeatable for credit)

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Individual Investigation

**Contact Hours:** 1-10 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**SPED 63998 RESEARCH:SPECIAL EDUCATION 1-10 Credit Hours**

(Repeatable for credit)

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Research

**Contact Hours:** 1-10 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**SPED 64200 CURRICULUM METHODS FOR TRANSITION PLANNING AND COLLABORATION 3 Credit Hours**

This course focuses upon the development of transition agreements and collaboration between secondary transition specialists and other transition stakeholders (e.g., elementary school regular educators, parents of students with disabilities, adult service programs). Particular emphasis is placed upon infusing vocational, and non-vocational, transition planning in the curricula for individuals with moderate-to-intensive disabilities at all academic grade levels. 100 field hours are required for this course.

**Prerequisite:** SPED 53070; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPED 64309 AUTISM SPECTRUM DISORDERS: THEORY AND DIAGNOSIS 3 Credit Hours**

(Cross-listed with SPA 64309 and SPA 74309) (Slashed with SPED 44309) Provides an overview of Autism Spectrum Disorders (ASD). Examines the history, characteristics, and prevalence of ASD. Assessment and intervention models are explored as they relate to various theoretical models for understanding ASD.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPED 64310 AUTISM SPECTRUM DISORDERS: LIFESPAN INTERVENTIONS 3 Credit Hours**

(Cross-listed with SPA 64310 and SPA 74310) Provides students with a review of the significant aspects related to educational, social, vocational transitions for children, adolescents, and young adults with Autism Spectrum Disorders (ASD). Students learn skills necessary to evaluate and develop programs designed to meet the changing and long term needs of individuals with ASD.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPED 64892 ADVANCED PRACTICUM 3,4 Credit Hours**

(Repeatable for credit) The purpose of this advanced practicum is to integrate the knowledge and skills acquired through prior curricula to a field-based setting assisting individuals with disabilities. Settings may include, but are not limited to, general education and special education classrooms as well as therapeutic, residential and vocational programs.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Practical Experience

**Contact Hours:** 9-12 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**SPED 64951 DEVELOPING AN INDIVIDUALIZED FAMILY SERVICE PLAN AND INDIVIDUALIZED EDUCATION PROGRAM 3 Credit Hours**

Designed to increase students understanding regarding federal and state rules for developing IEPs for P-12 students and IFSPs for young children and their families. Students will learn how to write functional and measurable IEP goals, objectives and IFSP outcomes, and to use assessment information directly for identifying, writing, and monitoring IFSP outcomes and IEP goals. This course will also teach how to form partnerships with families around developing, implementing and evaluating the IFSP and IEP.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPED 69525 INQUIRY PROFESSIONAL PRACTICE 3 Credit Hours**

This course is to support students during their student teaching experience in the last semester of the program. Planning for instruction and assessment, instructing and engaging students in various special education settings, and assessing learning outcomes are the focus of this course. The course also includes information specific to the professional responsibilities in their placements.

**Prerequisite:** Graduate standing.

**Corequisite:** SPED 63992.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPED 70093 VARIABLE TITLE WORKSHOP IN SPECIAL EDUCATION 1-5 Credit Hours**

(Slashed with SPED 40093 and SPED 50093)(Repeatable for credit)

Topics of special interest to students desiring to intensify their knowledge in particular areas. Presenters include Kent State University and other institution faculty. Offered irregularly.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Workshop

**Contact Hours:** 1-5 other

**Grade Mode:** Satisfactory/Unsatisfactory

**SPED 70094 COLLEGE TEACHING 3 Credit Hours**

(Repeatable for credit) Discusses major aspects of teaching in higher education, including such topics as students' philosophy of teaching, principles of adult learning, instructional strategies, students' assessment.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPED 73030 PHARMACOLOGICAL INTERVENTIONS IN SPECIAL EDUCATION 3 Credit Hours**

Introduce mechanisms by which drugs act; identify benefits/side effects; implications for delivery/intervention; monitoring in classroom. Classes of drugs examined; issues examined; delineation of responsibilities and prohibitions.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPED 73204 LEGAL AND POLICY FOUNDATIONS OF SPECIAL EDUCATION 3 Credit Hours**

(Slashed with SPED 63204) This course will review the statutory and regulatory foundations of U.S. public policies pertaining to children and youth with disabilities. Key judicial interpretations of those policies will also be reviewed. The course will provide comprehensive overviews of The Individuals with Disabilities Education Act, The Every Student Succeeds Act, The Americans with Disabilities Act, The Vocational Rehabilitation Act, relevant sections of The Social Security Act. In addition, students will gain an awareness of miscellaneous other pieces of legislation and examples of case law pertaining to the education of students with disabilities.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPED 73300 RESEARCH APPLICATIONS IN SPECIAL EDUCATION 3 Credit Hours**

(Slashed with SPED 63300) Culminating experience in which students apply their content, methods and research skills to develop a final project that addresses an area of special education. Focuses on techniques for answering research questions, developing curriculum, and assimilating knowledge through applied projects.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter-IP

**SPED 73950 CURRICULUM AND INTERVENTION IN EARLY CHILDHOOD SERVICES 3 Credit Hours**

(Slashed with SPED 63950) Knowledge about early childhood intervention (ECI) curriculum and intervention. Students will first learn about what evidence-based practice is, and the curriculum models for home-based and center-based settings. Students will then learn about the ECI multi-tiered systems of support framework, and the different characteristics and intervention strategies across tiers. At the end of the course, students will be ready to support the diverse needs of young children using the multi-tiered system of support in early childhood settings.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPED 73956 FOUNDATIONS IN EARLY CHILDHOOD SERVICES 3 Credit Hours**

(Cross-listed with ECED 60156) (Slashed with SPED 63956) Overview of issues facing young children within context of family/society including: history, early childhood services, theoretical perspectives, implications of childhood disabilities, and recommended assessment intervention and evaluation.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPED 73957 ASSESSMENT AND EVALUATION OF EARLY CHILDHOOD SERVICES 3 Credit Hours**

(Slashed with SPED 73957) Examines a range of systems for comparing and observing early childhood services, practices, young children and families: types and purposes of assessment procedures and instruments monitoring progress.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPED 73991 SEMINAR IN SPECIAL EDUCATION 1,3 Credit Hour**

(Repeatable for credit) Various topics include: behavior modification, research problems in special education, theories in special education, social processes in special education.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Seminar

**Contact Hours:** 1-3 other

**Grade Mode:** Standard Letter

**SPED 73995 SPECIAL TOPICS IN SPED 1-3 Credit Hours**

(Repeatable for credit) Specialized offerings in response to emerging or selected program needs.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 1-3 lecture

**Grade Mode:** Standard Letter

**SPED 73996 INDIVIDUAL INVESTIGATION IN SPECIAL EDUCATION 1-10 Credit Hours**

(Repeatable for credit)

**Prerequisite:** Doctoral standing; and special approval.

**Schedule Type:** Individual Investigation

**Contact Hours:** 1-10 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**SPED 74200 CURRICULUM METHODS FOR TRANSITION PLANNING AND COLLABORATION 3 Credit Hours**

(Slashed with SPED 64200) This course focuses upon the development of transition agreements and collaboration between secondary transition specialists and other transition stakeholders (e.g., elementary school regular educators, parents of students with disabilities, adult service programs). Particular emphasis is placed upon infusing vocational, and non-vocational, transition planning in the curricula for individuals with moderate-to-intensive disabilities at all academic grade levels. 100 field hours are required for this course.

**Prerequisite:** SPED 53070; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPED 75089 VARIABLE TOPIC INTERNATIONAL EXPERIENCE IN SPECIAL EDUCATION 1-4 Credit Hours**

(Slashed with SPED 45089 and SPED 55089) A faculty-led study abroad experience that integrates traditional classroom learning with experiential activities and site visits outside the United States. International experience courses may have pre- and post-travel classroom study. Course activities may include, but are not limited to, classroom study, research, field work, internships and service learning.

**Prerequisite:** Doctoral standing.

**Schedule Type:** International Experience

**Contact Hours:** 1-4 other

**Grade Mode:** Standard Letter-IP

**SPED 75090 VARIABLE TOPIC STUDY AWAY EXPERIENCE IN SPECIAL EDUCATION 1-4 Credit Hours**

(Slashed with SPED 45090 and SPED 55090) A faculty-led study out-of-classroom experience that integrates traditional classroom learning with experiential activities and site visits within the United States. Study away courses may have pre- and post-travel classroom study. Course activities may include, but are not limited to, classroom study, research, field work, internships and service learning.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Study Away

**Contact Hours:** 1-4 other

**Grade Mode:** Standard Letter-IP

**SPED 80001 SPECIAL EDUCATION RESIDENCY 3 Credit Hours**

This course is designed to provide beginning SPED doctoral students skills and knowledge in the following global areas: information literacy and plagiarism, basic APA style writing and building a writing routine. Additionally, the course will prepare students in the following SPED specific areas: effectively synthesizing intervention based empirical research, establishing a line of inquiry in the disability related fields, and developing a CV for disability related positions in Higher Education. Overall, the course will help students to understand life in academia during the doctoral studies in SPED and life after graduation conducting timely SPED research and teaching SPED content (e.g., institutional differences for SPED higher education jobs, tenure, work and life balance, time management, etc).

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter-IP

**SPED 80002 ANALYSIS OF THE LITERATURE IN SPECIAL EDUCATION 3 Credit Hours**

This course is designed to assist doctoral students in the acquisition, organization, and interpretation of information about research in special education. The seminar introduces students to the nature of inquiry and the process of generating questions about a broad array of disability-related research topics. Students will gain knowledge to analyze critically the outcomes of research in special education.

**Prerequisite:** SPED 80001; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter-IP

**SPED 80003 IMPLEMENTATION SCIENCE IN SPECIAL EDUCATION 3 Credit Hours**

This course is designed to provide students an overview of implementation science, and seminal leadership and systems change literature. The course will describe current state of the science of implementation, and identify strategies that foster the effective transmission and implementation of innovative programs in intervention focused disability studies special education fields. Students analyze and apply the literature at the teacher, family, school building, district, state and federal levels. Students will gain skills and knowledge in implementation drivers that have the potential in reducing the research to practice gap, and increasing the integration of evidence based practices. Strategies for developing and mobilizing stakeholders to support the process of change will be covered.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter



**SPED 80005 EMPIRICAL INVESTIGATIONS IN SPECIAL EDUCATION 3 Credit Hours**

The course is intended to help students solidify their knowledge, skills, and dispositions related to research design, research methods, and scholarly writing by applying and expanding them in the context of special education research. Students will review and analyze quality indicators for special education research, critique select special education research literature, and develop a preliminary research proposal.

**Prerequisite:** SPED 80002; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**SPED 80040 RESEARCH GRANT DEVELOPMENT FOR DISABILITY PROGRAMS 3 Credit Hours**

Students develop and write research proposals for grant competitions focusing on disability issues. Considerations for types of competitions and funding sources are discussed. Focus of instruction is related to how to describe the importance of the research proposed, research methods identified, budget, administration of grant activities and evaluation of implementation.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Seminar

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter-IP

**SPED 80090 DOCTORAL RESIDENCY SEMINAR 3 Credit Hours**

Provides students with the opportunity to synthesize courses, research and practice by focusing on diverse issues and topics. Ordinarily, SPED 80090 is taken no earlier than the second year of doctoral studies as a culminating course in the doctoral sequence.

**Prerequisite:** Doctoral standing; and special approval.

**Schedule Type:** Seminar

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**SPED 80091 DOCTORAL RESIDENCY SEMINAR 3 Credit Hours**

Provides students with the opportunity to synthesize courses, research and practice by focusing on diverse issues and topics. Ordinarily, SPED 80091 is taken no earlier than the second year of doctoral studies as a culminating course in the doctoral sequence.

**Prerequisite:** Doctoral standing; and special approval.

**Schedule Type:** Seminar

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**SPED 80092 PRACTICUM IN COLLEGE TEACHING 3 Credit Hours**

(Repeatable for credit) This course will provide the student supervised experience in design, delivery, and evaluation of a college course in special education. The student will demonstrate skills learned in the pre-requisite course (SPED 70094) under the supervision of a designated special education faculty member.

**Prerequisite:** Doctoral standing.

**Pre/corequisite:** SPED 70094.

**Schedule Type:** Practical Experience

**Contact Hours:** 9 other

**Grade Mode:** Satisfactory/Unsatisfactory

**SPED 80199 DISSERTATION I 15 Credit Hours**

(Repeatable for credit) Doctoral dissertation for which registration in at least two semesters is required, first of which will be semester in which dissertation work is begun and continuing until the completion of 30 hours.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Dissertation

**Contact Hours:** 3 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**SPED 80299 DISSERTATION II 15 Credit Hours**

(Repeatable for credit) Continuing registration required of doctoral students who have completed the initial 30 hours of dissertation and continuing until all degree requirements are met.

**Prerequisite:** SPED 80199; and doctoral standing.

**Schedule Type:** Dissertation

**Contact Hours:** 15 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**SPED 83201 CONTEMPORARY ISSUES IN SPECIAL EDUCATION 3 Credit Hours**

(Slashed with SPED 63201) This course is designed to help doctoral students to develop (a) foundational knowledge for understanding important and controversial issues in special education and related disciplines; (b) skills in critical analysis and synthesis of research; and, (c) skills in effective oral and written communication about historical and contemporary issues in special education.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPED 83301 SINGLE-SUBJECT RESEARCH METHODS 3 Credit Hours**

(Repeatable for credit) Research designs and techniques associated with behavioral observation and a description of single subject experimental methodology are presented. The study of this methodology includes topics related to applied behavior analysis, assessment, experimental design and data evaluation. In addition, single subject methods are discussed in relations to other research designs. 20 field hours.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter-IP

**SPED 83952 THE LAW AND SPECIAL EDUCATION 3 Credit Hours**

Selected principles of constitutional, statutory, case and common law affecting handicapped and special education students, teachers and administrators are studied.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPED 83991 SEMINAR IN SPECIAL EDUCATION 1-3 Credit Hours**

(Repeatable for credit)

**Prerequisite:** Doctoral standing.

**Schedule Type:** Seminar

**Contact Hours:** 1-3 other

**Grade Mode:** Standard Letter



**SPED 83992 INTERNSHIP IN SPECIAL EDUCATION 2-8 Credit Hours**  
(Repeatable for credit) A college-university doctoral-level supervised teaching experience. The candidates participate fully in the course and material development as well as delivery and grading of an undergraduate or masters level course under the direct supervision of a faculty member assigned to teach the class. Candidates are expected to partially participate in the delivery of a third of the course and fully deliver at least a third of the course under the observation and supervision of a faculty member.

**Prerequisite:** Doctoral standing; and special approval.

**Schedule Type:** Practical Experience

**Contact Hours:** 12-24 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**SPED 83998 RESEARCH:SPECIAL EDUCATION 1-10 Credit Hours**  
(Repeatable for credit)

**Prerequisite:** Doctoral standing; and special approval.

**Schedule Type:** Research

**Contact Hours:** 1-10 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

## School Psychology (SPSY)

**SPSY 60093 VARIABLE TITLE WORKSHOP IN SCHOOL PSYCHOLOGY**  
**1-4 Credit Hours**

(Repeatable for credit)

**Prerequisite:** Grading standing; and special approval.

**Schedule Type:** Workshop

**Contact Hours:** 1-4 other

**Grade Mode:** Satisfactory/Unsatisfactory

**SPSY 60094 COLLEGE TEACHING 3 Credit Hours**

(Repeatable for credit) (Slashed with SPSY 70094) Discusses major aspects of teaching in higher education, including such topics as students' philosophy of teaching, principles of adult learning, instructional strategies, students' assessment.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPSY 60162 DEVELOPMENTAL ASSESSMENT 3 Credit Hours**

Reviews the educational, family and regulatory forces that influence success at each significant transition for preschool, kindergarten and primary grade children. 24 clinical/field hours.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPSY 60165 PRINCIPLES OF SOCIAL LEARNING 3 Credit Hours**

The main focus is to provide students with an understanding of behavioral and social learning principles within the context of the school psychologist's professional practice. 19 clinical/field hours.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPSY 60191 SEMINAR:SCHOOL PSYCHOLOGY 1-4 Credit Hours**

(Repeatable for credit) Seminar in school psychology. Varied topics.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Seminar

**Contact Hours:** 1-4 other

**Grade Mode:** Standard Letter

**SPSY 67592 FIELD EXPERIENCE IN EDUCATION FOR SCHOOL PSYCHOLOGISTS 2 Credit Hours**

This field experience provides students with the opportunity to observe various school and educational settings that reflect the typical work scope for school psychologists. Required for those students in school psychology who do not have teaching certificates and have not spent extensive time in public schools. Students are required to complete Bureau of Criminal Investigation and Identification (BCII) and Federal Bureau of Investigation (FBI) background checks and submit the results to authorized personnel at their assigned 'school-agency' before the first day of the semester in which student teaching internship will take place.

**Prerequisite:** School psychology major; and graduate standing.

**Schedule Type:** Field Experience

**Contact Hours:** 8 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**SPSY 67692 PRACTICUM I IN SCHOOL PSYCHOLOGY 3 Credit Hours**

(Repeatable for credit) (Slashed with SPSY 77692) This course provides students with experience, support, and opportunities for reflection related to the foundational domains of the practice of school psychology and ongoing professional development. Students are required to complete Bureau of Criminal Investigation and Identification (BCII) and Federal Bureau of Investigation (FBI) background checks and submit the results to authorized personnel prior to the beginning of any field-based activities.

**Prerequisite:** School psychology major; and graduate standing.

**Schedule Type:** Practical Experience

**Contact Hours:** 9 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**SPSY 67792 PRACTICUM II IN SCHOOL PSYCHOLOGY 3 Credit Hours**

(Repeatable for credit) (Slashed with SPSY 77792) Provides students with applied experience and professional development related to foundational domains of school psychology practice. Students are required to complete Bureau of Criminal Investigation and Identification (BCII) and Federal Bureau of Investigation (FBI) background checks and submit the results to authorized personnel prior to beginning any field-based activities.

**Prerequisite:** SPSY 67692 or SPSY 77692; and school psychology major; and graduate standing.

**Schedule Type:** Practical Experience

**Contact Hours:** 9 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**SPSY 67892 ADVANCED PRACTICUM IN SCHOOL PSYCHOLOGY 3-6 Credit Hours**

(Repeatable for credit) (Slashed with SPSY 77892) Provides students with advanced applied experience in educational, mental health, or behavioral health settings. 60 clock hours per credit hour. Students are required to complete Bureau of Criminal Investigation and Identification (BCII) and Federal Bureau of Investigation (FBI) background checks and submit the results to authorized personnel prior to beginning any field-based activities.

**Prerequisite:** SPSY 67792; and school psychology major; and graduate standing and; special approval.

**Schedule Type:** Practical Experience

**Contact Hours:** 12-24 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**SPSY 67912 ROLE OF THE SCHOOL PSYCHOLOGIST 3 Credit Hours**

Study of role and functions of school psychologists in American education. Includes history of school psychology and future orientation. Five clinical/field hours.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter-IP

**SPSY 67920 DIAGNOSIS OF CHILDHOOD DISORDERS IN SCHOOLS 3 Credit Hours**

Provides overview of diagnosis of child and adolescent behavior disorders (ADHD, conduct problems) emotional and social disorders (depression, anxiety, phobias) and developmental acquired disorders (autism, mental retardation).

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPSY 67925 INTRODUCTION TO NEUROPSYCHOLOGY FOR SCHOOL PSYCHOLOGISTS 1 Credit Hour**

Introduces basic concepts in child neuropsychology with relevance for applied school psychological practice. Topics include biological bases of behavior and implications for educational interventions.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 1 lecture

**Grade Mode:** Standard Letter

**SPSY 67926 INTRODUCTION TO DIGITAL CITIZENSHIP FOR SCHOOL PSYCHOLOGISTS 1 Credit Hour**

(Slashed with SPSY 77926) This course is designed to provide students with an introductory understanding of the fundamental issues and practices of technology in school psychology. Students will gain skills related to: (a) ethical and professional use of technology; (b) evaluate features of various technology systems; (c) identify functional intervention goals to which technology can contribute; and (d) use technology to collect, analyze, summarize, and report student performance to aid instructional decision-making.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 1 lecture

**Grade Mode:** Standard Letter

**SPSY 67928 GROUP COUNSELING TECHNIQUES FOR REHABILITATION COUNSELORS AND SCHOOL PSYCHOLOGISTS 3 Credit Hours**

Review of group counseling techniques for rehab counselors and school psychologists. Skills developed in group process and group leadership. A variety of group interventions will be examined including techniques for persons with disabilities.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPSY 67929 INDIVIDUAL COUNSELING TECHNIQUES FOR REHABILITATION COUNSELORS AND SCHOOL PSYCHOLOGISTS 3 Credit Hours**

(Slashed with SPSY 77929) Review of individual counseling techniques. Skills developed in communication, interviewing, problem identification, goal setting and program development are fostered by lecture, video feedback and simulation.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPSY 67931 PROGRAM DEVELOPMENT AND ETHICAL APPLICATION OF APPLIED BEHAVIOR ANALYSIS 3 Credit Hours**

Describe and apply methodology and research design in monitoring the effectiveness of behavioral interventions and to use such information to evaluate overall program efficacy. Consideration is given to student characteristics (e.g., underlying disability) when developing and evaluating behavior programs based. Use of specific tools for prioritizing behaviors, evaluating progress, and making treatment program decisions are presented. Issues related to ethics, treatment implementation fidelity, and behavioral program development are also emphasized.

**Prerequisite:** SPED 53030; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPSY 67932 ADVANCED INTERVENTIONS FOR ADDRESSING SEVERE BEHAVIOR 3 Credit Hours**

Use and interpretation of functional behavioral assessment in educational settings to lead to the identification of empirically-supported interventions to address the behavioral needs of children. The development, implementation and analysis of functional analysis procedures. Special emphasis given to identifying/designing, implementing and assessing the effectiveness of advanced behavioral interventions in consultation. 20 field hrs.

**Prerequisite:** SPED 53030 and SPSY 67920 or SPSY 77920; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPSY 67951 COGNITIVE ASSESSMENT OF CHILDREN IN SCHOOLS 3 Credit Hours**

Training and experience in administering, scoring and interpreting cognitive measures for children and adolescents and writing reports. 30 clinical/field hours.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPSY 67955 INSTRUCTIONAL ASSESSMENT FOR SCHOOL PSYCHOLOGISTS 3 Credit Hours**

Training in administration, scoring and interpretation of normative and non-normative measures of academic achievement, instructional environment and writing psychoeducational and team reports. 25 clinical/field hours.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPSY 67960 INTERVENTIONS WITH CULTURALLY DIVERSE STUDENTS**  
**3 Credit Hours**

Introduces skills to effectively and ethically implement educational and psychological interventions with culturally diverse children in educational settings. 5 clinical/field hours.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPSY 67965 INSTRUCTIONAL INTERVENTIONS FOR SCHOOL PSYCHOLOGISTS**  
**3 Credit Hours**

Describes design and implementation of evidence-based interventions, methods of data collection and progress monitoring for school based academic referrals within a problem solving model. Requires 25 clinical field hours.

**Prerequisite:** SPSY 67955; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPSY 67970 LEGAL, ETHICAL AND PROFESSIONAL ISSUES IN SCHOOL PSYCHOLOGY**  
**3 Credit Hours**

Ethical, legal and professional issues of school psychologists and counselors will be explored. Considerations of law, regulations, ethical standards and codes of professional practice of related professional organizations will be addressed.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPSY 67971 ISSUES AND APPROACHES IN SCHOOL PSYCHOLOGY**  
**3 Credit Hours**

(Repeatable for a maximum of 6 credit hours) This course describes and illustrates contemporary elements and forces that impact professional service in school psychology practice. Students register for two consecutive semesters in conjunction with internship.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 3 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**SPSY 67972 SOCIAL-EMOTIONAL ASSESSMENT FOR SCHOOL PSYCHOLOGISTS**  
**3 Credit Hours**

Training in administration, scoring and interpretation of techniques for assessment of social emotional functioning and adaptive behavior and writing evaluation team reports. 25 clinical/field hours. Students are required to complete Bureau of Criminal Investigation and Identification (BCII) and Federal Bureau of Investigation (FBI) background checks and submit the results to authorized personnel at their assigned 'school/agency' before the first day of the semester in which student teaching/ internship will take place.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPSY 67973 CONSULTATION IN THE HELPING PROFESSIONS**  
**3 Credit Hours**

Students learn consultation skills and processes utilizing a number of professional models such as Caplan's model, behavior and problem solving models and crisis consultation. 20 clinical/field hours.

Students are required to complete Bureau of Criminal Investigation and Identification (BCII) and Federal Bureau of Investigation (FBI) background checks and submit the results to authorized personnel at their assigned 'school/agency' before the first day of the semester in which student teaching/ internship will take place.

**Prerequisite:** Graduate standing.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**SPSY 67974 SOCIAL-EMOTIONAL INTERVENTIONS IN SCHOOL PSYCHOLOGY**  
**3 Credit Hours**

Describes design and implementation of social-emotional interventions for childhood disorders. Reviews progress monitoring for school-based social and emotional referrals within an eco-behavioral problem-solving model. 25 clinical field hours.

**Prerequisite:** SPSY 67972; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPSY 67975 HOME, SCHOOL AND COMMUNITY COLLABORATION**  
**3 Credit Hours**

(Slashed with SPSY 77975) This course is designed to familiarize school psychologists with essential attitudes, approaches, and actions necessary to form successful family-school-community partnerships that can foster development and learning.

**Prerequisite:** School psychology major; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPSY 67995 SPECIAL TOPICS IN SCHOOL PSYCHOLOGY**  
**1-3 Credit Hours**

(Repeatable for credit) Presentations of special interest to students. Offered irregularly. Topics will be announced in schedule of classes booklet.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 1-3 lecture

**Grade Mode:** Standard Letter

**SPSY 67996 INDIVIDUAL INVESTIGATION IN SCHOOL PSYCHOLOGY**  
**1-3 Credit Hours**

(Repeatable for credit) Independent reading and/or research directed by a graduate faculty member.

**Prerequisite:** Graduate standing.

**Schedule Type:** Individual Investigation

**Contact Hours:** 1-3 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**SPSY 67998 INDIVIDUAL RESEARCH IN SCHOOL PSYCHOLOGY**  
**1-9 Credit Hours**

(Repeatable for credit) Student pursues research project on selected aspect of school psychology under supervision of instructor. Arrangements with instructor must be made prior to registration.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Research

**Contact Hours:** 1-9 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**SPSY 70093 VARIABLE TITLE WORKSHOP IN SCHOOL PSYCHOLOGY 1-4 Credit Hours**

(Repeatable for credit)

**Prerequisite:** Doctoral standing; and special approval.**Schedule Type:** Workshop**Contact Hours:** 1-4 other**Grade Mode:** Satisfactory/Unsatisfactory**SPSY 70094 COLLEGE TEACHING 3 Credit Hours**

(Repeatable for credit) (Slashed with SPSY 60094) Discusses major aspects of teaching in higher education, including such topics as students' philosophy of teaching, principles of adult learning, instructional strategies, students' assessment.

**Prerequisite:** Doctoral standing.**Schedule Type:** Lecture**Contact Hours:** 3 lecture**Grade Mode:** Standard Letter**SPSY 70162 DEVELOPMENTAL ASSESSMENT 3 Credit Hours**

Reviews the educational, family and regulatory forces that influence success at each significant transition for preschool kindergarten and primary grade children. 24 clinical field hours.

**Prerequisite:** Doctoral standing.**Schedule Type:** Lecture**Contact Hours:** 3 lecture**Grade Mode:** Standard Letter**SPSY 70165 PRINCIPLES OF SOCIAL LEARNING 3 Credit Hours**

The main focus is to provide students with an understanding of behavioral and social learning principles within the context of the school psychologist's professional practice.

**Prerequisite:** Doctoral standing.**Schedule Type:** Lecture**Contact Hours:** 3 lecture**Grade Mode:** Standard Letter**SPSY 70191 SEMINAR:SCHOOL PSYCHOLOGY 1-4 Credit Hours**

(Repeatable for credit) Seminar in school psychology. Varied topics.

**Prerequisite:** Doctoral standing; and special approval.**Schedule Type:** Seminar**Contact Hours:** 1-4 other**Grade Mode:** Standard Letter**SPSY 77592 FIELD EXPERIENCE IN EDUCATION FOR SCHOOL PSYCHOLOGISTS 2 Credit Hours**

This field experience provides students with the opportunity to observe various school and educational settings that reflect the typical work scope for school psychologists. Required for those students in school psychology who do not have teaching certificates and have not spent extensive time in public schools. Students are required to complete Bureau of Criminal Investigation and Identification (BCII) and Federal Bureau of Investigation (FBI) background checks and submit the results to authorized personnel at their assigned 'school-agency' before the first day of the semester in which student teaching internship will take place.

**Prerequisite:** School psychology major; and graduate standing.**Schedule Type:** Field Experience**Contact Hours:** 8 other**Grade Mode:** Satisfactory/Unsatisfactory-IP**SPSY 77692 PRACTICUM I IN SCHOOL PSYCHOLOGY 3 Credit Hours**

(Repeatable for credit) (Slashed with SPSY 67692) This course provides students with experience, support, and opportunities for reflection related to the foundational domains of the practice of school psychology and ongoing professional development. Students are required to complete Bureau of Criminal Investigation and Identification (BCII) and Federal Bureau of Investigation (FBI) background checks and submit the results to authorized personnel prior to the beginning of any field-based activities.

**Prerequisite:** School psychology major; and special approval.**Schedule Type:** Practical Experience**Contact Hours:** 9 other**Grade Mode:** Satisfactory/Unsatisfactory-IP**SPSY 77792 PRACTICUM II IN SCHOOL PSYCHOLOGY 3 Credit Hours**

(Repeatable for credit) (Slashed with SPSY 67792) Provides students with applied experience and professional development related to foundational domains of school psychology practice. Students are required to complete Bureau of Criminal Investigation and Identification (BCII) and Federal Bureau of Investigation (FBI) background checks and submit the results to authorized personnel prior to beginning any field-based activities.

**Prerequisite:** SPSY 67692 or SPSY 77692; and school psychology major; and doctoral standing.**Schedule Type:** Practical Experience**Contact Hours:** 9 other**Grade Mode:** Satisfactory/Unsatisfactory-IP**SPSY 77892 ADVANCED PRACTICUM IN SCHOOL PSYCHOLOGY 3-6 Credit Hours**

(Repeatable for credit) (Slashed with SPSY 67892) Provides students with advanced applied experience in educational, mental health, or behavioral health settings. 60 clock hours per credit hour. Students are required to complete Bureau of Criminal Investigation and Identification (BCII) and Federal Bureau of Investigation (FBI) background checks and submit the results to authorized personnel prior to beginning any field-based activities.

**Prerequisite:** SPSY 77792; and school psychology major; and doctoral standing; and special approval.**Schedule Type:** Practical Experience**Contact Hours:** 12-24 other**Grade Mode:** Satisfactory/Unsatisfactory-IP**SPSY 77912 ROLE OF THE SCHOOL PSYCHOLOGIST 3 Credit Hours**

Study of role and functions of school psychologists in American education. Includes history of school psychology and future orientation. Five clinical field hours.

**Prerequisite:** Doctoral standing.**Schedule Type:** Lecture**Contact Hours:** 3 lecture**Grade Mode:** Standard Letter-IP**SPSY 77920 DIAGNOSIS OF CHILDHOOD DISORDERS IN SCHOOLS 3 Credit Hours**

Provides overview of diagnosis of child and adolescent behavior disorders (ADHD, conduct problems) emotional and social disorders (depression, anxiety, phobias) and developmental acquired disorders (autism, mental retardation).

**Prerequisite:** Doctoral standing.**Schedule Type:** Lecture**Contact Hours:** 3 lecture**Grade Mode:** Standard Letter



**SPSY 77925 INTRODUCTION TO NEUROPSYCHOLOGY FOR SCHOOL PSYCHOLOGISTS 1 Credit Hour**

Introduces basic concepts in child neuropsychology with relevance for applied school psychological practice. Topics include biological bases of behavior and implications for educational interventions.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 1 lecture

**Grade Mode:** Standard Letter

**SPSY 77926 INTRODUCTION TO DIGITAL CITIZENSHIP FOR SCHOOL PSYCHOLOGISTS 1 Credit Hour**

(Slashed with SPSY 67926) This course is designed to provide students with an introductory understanding of the fundamental issues and practices of technology in school psychology. Students will gain skills related to: (a) ethical and professional use of technology; (b) evaluate features of various technology systems; (c) identify functional intervention goals to which technology can contribute; and (d) use technology to collect, analyze, summarize, and report student performance to aid instructional decision-making.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 1 lecture

**Grade Mode:** Standard Letter

**SPSY 77928 GROUP COUNSELING TECHNIQUES FOR REHABILITATION COUNSELORS AND SCHOOL PSYCHOLOGISTS 3 Credit Hours**

Review of group counseling techniques for rehab counselors and school psychologists. Skills developed in group process and group leadership. A variety of group interventions will be examined including techniques for persons with disabilities.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPSY 77929 INDIVIDUAL COUNSELING TECHNIQUES FOR REHABILITATION COUNSELORS AND SCHOOL PSYCHOLOGISTS 3 Credit Hours**

(Slashed with SPSY 67929) Review of individual counseling techniques. Skills developed in communication interviewing problem identification goal setting and program development are fostered by lecture, video feedback and simulation.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPSY 77932 ADVANCED INTERVENTIONS FOR ADDRESSING SEVERE BEHAVIOR 3 Credit Hours**

Use and interpretation of functional behavioral assessment in educational settings to lead to the identification of empirically-supported interventions to address the behavioral needs of children. The development, implementation and analysis of functional analysis procedures. Special emphasis given to identifying/designing, implementing and assessing the effectiveness of advanced behavioral interventions in consultation. 20 field hrs.

**Prerequisite:** SPED 53030 and SPSY 67920 or SPSY 77920; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPSY 77951 COGNITIVE ASSESSMENT OF CHILDREN IN SCHOOLS 3 Credit Hours**

Training and experience in administering, scoring and interpreting cognitive measures for children and adolescents and writing reports. 30 clinical/field hours.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPSY 77955 INSTRUCTIONAL ASSESSMENT FOR SCHOOL PSYCHOLOGISTS 3 Credit Hours**

Training in administration, scoring and interpretation of normative and non-normative measures of academic achievement instructional environment and writing psychoeducational and team reports. 25 clinical field hours.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPSY 77960 INTERVENTIONS WITH CULTURALLY DIVERSE STUDENTS 3 Credit Hours**

Introduces skills to effectively and ethically implement educational and psychological interventions with culturally diverse children in educational settings. 5 clinical/field hours.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPSY 77965 INSTRUCTIONAL INTERVENTIONS FOR SCHOOL PSYCHOLOGISTS 3 Credit Hours**

Describes design and implementation of evidence-based interventions, methods of data collection and progress monitoring for school-based academic referrals within a problem-solving model. Requires 25 clinical field hours.

**Prerequisite:** SPSY 77955; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPSY 77970 LEGAL, ETHICAL AND PROFESSIONAL ISSUES IN SCHOOL PSYCHOLOGY 3 Credit Hours**

Ethical, legal and professional issues of school psychologists and counselors will be explored. Considerations of law, regulations, ethical standards and codes of professional practice of related professional organizations will be addressed.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPSY 77971 ISSUES AND APPROACHES IN SCHOOL PSYCHOLOGY 3 Credit Hours**

(Repeatable for a maximum of 6 credit hours) This course describes and illustrates contemporary elements and forces that impact professional service in school psychology practice. Students register for two consecutive semesters in conjunction with internship.

**Prerequisite:** Doctoral standing; and permission.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 3 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP



**SPSY 77972 SOCIAL-EMOTIONAL ASSESSMENT FOR SCHOOL PSYCHOLOGISTS 3 Credit Hours**

Training in administration, scoring and interpretation of techniques for assessment of social, emotional functioning and adaptive behavior and writing evaluation team reports. 25 clinical/field hours. Students are required to complete Bureau of Criminal Investigation and Identification (BCII) and Federal Bureau of Investigation (FBI) background checks and submit the results to authorized personnel at their assigned 'school/agency' before the first day of the semester in which student teaching/ internship will take place.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPSY 77973 CONSULTATION IN THE HELPING PROFESSIONS 3 Credit Hours**

Students learn consultation skills and processes utilizing a number of professional models such as Caplan's model, behavior and problem-solving models and crisis consultation. 20 clinical/field hours.

Students are required to complete Bureau of Criminal Investigation and Identification (BCII) and Federal Bureau of Investigation (FBI) background checks and submit the results to authorized personnel at their assigned 'school/agency' before the first day of the semester in which student teaching/ internship will take place.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**SPSY 77974 SOCIAL-EMOTIONAL INTERVENTIONS IN SCHOOL PSYCHOLOGY 3 Credit Hours**

Describes design and implementation of social-emotional interventions for childhood disorders. Reviews progress monitoring for school-based social and emotional referrals within an eco-behavioral problem-solving model. 25 clinical/field hours.

**Prerequisite:** SPSY 77972; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPSY 77975 HOME, SCHOOL AND COMMUNITY COLLABORATION 3 Credit Hours**

(Slashed with SPSY 67975) This course is designed to familiarize school psychologists with essential attitudes, approaches, and actions necessary to form successful family-school-community partnerships that can foster development and learning.

**Prerequisite:** School psychology major; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPSY 77980 INTEGRATING EXPERIENCE IN SCHOOL PSYCHOLOGY 2 Credit Hours**

This course requires student to research, study and develop expertise in a particular facet of school psychology and to present these findings at the conclusion of his/her training program. Restricted to students in school psychology Ed.S. program. 38 clinical field hours.

**Prerequisite:** Doctoral standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Satisfactory/Unsatisfactory

**SPSY 77992 SPECIALIST INTERNSHIP IN SCHOOL PSYCHOLOGY 1-6 Credit Hours**

(Repeatable for credit) The internship experience provides students with the opportunity to develop and practice the professional roles and functions of a school psychologist in an approved school setting. Students complete one academic year of internship in schools (minimum of 1,200 clock hours) under the supervision of a university supervisor and a certified school psychologist who is employed by a school system. Students are required to complete Bureau of Criminal Investigation and Identification (BCII) and Federal Bureau of Investigation (FBI) background checks and submit the results to authorized personnel at their assigned 'school-agency' before the first day of the semester in which student teaching internship will take place.

**Prerequisite:** School psychology major; and graduate standing; and guest students with permission.

**Schedule Type:** Practical Experience

**Contact Hours:** 7-40 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**SPSY 77995 SPECIAL TOPICS IN SCHOOL PSYCHOLOGY 1-3 Credit Hours**

(Repeatable for credit) Presentations of special interest to students. Offered irregularly. Topics will be announced in schedule of classes booklet.

**Prerequisite:** Doctoral standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 1-3 lecture

**Grade Mode:** Standard Letter

**SPSY 77996 INDIVIDUAL INVESTIGATION IN SCHOOL PSYCHOLOGY 1-3 Credit Hours**

(Repeatable for credit) Independent reading and/or research directed by a graduate faculty member.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Individual Investigation

**Contact Hours:** 3 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**SPSY 77998 INDIVIDUAL RESEARCH IN SCHOOL PSYCHOLOGY 1-9 Credit Hours**

(Repeatable for credit) Student pursues research project on selected aspect of school psychology under supervision of instructor.

Arrangements with instructor must be made prior to registration.

**Prerequisite:** Doctoral standing; and special approval.

**Schedule Type:** Research

**Contact Hours:** 1-9 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**SPSY 80090 DOCTORAL RESIDENCY SEMINAR 3 Credit Hours**

Exploration of philosophical, definitional and attitudinal issues in the helping professions. Involvement in current activities of professional life through collaborative work with professors other students and practitioners.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Seminar

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**SPSY 80199 DISSERTATION I 15 Credit Hours**

(Repeatable for credit) Doctoral dissertation for which registration in at least two semesters is required, first of which will be semester in which dissertation work is begun and continuing until the completion of 30 hours.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Dissertation

**Contact Hours:** 3 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**SPSY 80299 DISSERTATION II 15 Credit Hours**

(Repeatable for credit) Continuing registration required of doctoral students who have completed the initial 30 hours of dissertation and continuing until all dissertation requirements are met.

**Prerequisite:** SPSY 80199; and doctoral standing.

**Schedule Type:** Dissertation

**Contact Hours:** 15 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**SPSY 87987 PROFESSIONAL SEMINAR IN SCHOOL PSYCHOLOGY 3 Credit Hours**

A professional seminar focused on the identity, history and development of school psychology with special emphasis on current professional issues.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SPSY 87992 DOCTORAL INTERNSHIP IN SCHOOL PSYCHOLOGY 1-6 Credit Hours**

Repeatable for credit) The internship experience provides students with the opportunity to develop and practice the professional roles and functions of a school psychologist in an approved school setting. Students complete one academic year of internship in schools (minimum of 1,500 clock hours) under the supervision of a university supervisor and a licensed school psychologist who is employed by a school system. Students are required to complete Bureau of Criminal Investigation and Identification (BCII) and Federal Bureau of Investigation (FBI) background checks and submit the results to authorized personnel at their assigned 'school-agency' before the first day of the semester in which student teaching internship will take place.

**Prerequisite:** School psychology major; and doctoral standing.

**Schedule Type:** Practical Experience

**Contact Hours:** 10-60 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**SPSY 87998 RESEARCH SEMINAR IN SCHOOL PSYCHOLOGY 3 Credit Hours**

(Repeatable for credit) Selected research topics in school psychology. Significant research literature is reviewed; research design methods and issues are presented and small research projects are conducted.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Research

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

## Addictions Counseling - Graduate Certificate

College of Education Health and Human Services

School of Lifespan Development and Educational Sciences

405 White Hall

Kent Campus

330-672-2294

[www.kent.edu/ehhs/ldes](http://www.kent.edu/ehhs/ldes)

### Description

The Addictions Counseling graduate certificate prepares students with all the requisite training hours for licensure eligibility as a chemical dependency counselor in Ohio, issued by the Ohio Chemical Dependency Professionals Board.

The first course in the certificate provides all necessary training hours for certification as a chemical dependency counselor assistant in Ohio. Course content includes the following:

- theories and models of addiction and addictive behaviors;
- pharmacology (i.e., review of substances typically misused, as well as medications used to treat symptoms of substance use disorders);
- screening and diagnostic assessment of substance use and co-occurring disorders;
- case conceptualization and treatment planning using the American Society of Addiction Medicine criteria;
- evidence-based practices in addictions (e.g., motivational interviewing, contingency management); and
- legal and ethical considerations in addictions counseling.

Experiential training is infused throughout the curriculum (e.g., use of simulated clients in the classroom) and culminates in a practicum in the field at an approved counseling facility under the supervision of an approved licensed behavioral health provider.

### Fully Offered At:

- Kent Campus

### Admission Requirements

- Bachelor's or master's degree from an accredited college or university
- Minimum 3.000 undergraduate GPA on a 4.000 point scale
- Official transcript(s)
- Goal statement
- Two letters of recommendation
- English language proficiency - all international students must provide proof of English language proficiency (unless they meet specific exceptions) by earning one of the following:
  - Minimum 550 TOEFL PBT score (paper-based version)
  - Minimum 79 TOEFL IBT score (Internet-based version)
  - Minimum 77 MELAB score
  - Minimum 6.5 IELTS score
  - Minimum 58 PTE score

For more information about graduate admission, please visit the graduate admission website. For more information on international admission, visit the Office of Global Education's admission website.

## Program Requirements

### Certificate Requirements

Code	Title	Credit Hours
<b>Certificate Requirements</b>		
CES 67662	FOUNDATIONS OF ADDICTIONS COUNSELING	3
CES 67664	THEORIES AND PRACTICES IN ADDICTIONS COUNSELING	3
CES 67665	TREATMENT PLANNING IN ADDICTIONS COUNSELING	3
CES 67666	EVIDENCE-BASED PRACTICES IN ADDICTIONS COUNSELING	3
or CES 67668	MOTIVATIONAL INTERVIEWING	
CES 67692	PRACTICUM IN ADDICTIONS COUNSELING	3-6
Minimum Total Credit Hours:		15

### Graduation Requirements

Minimum Certificate GPA	Minimum Overall GPA
3.000	

- Students declared in a doctoral degree should enroll in the doctoral level version of these courses, if offered.

## Addictions Counseling - Undergraduate Certificate

### College of Education Health and Human Services

School of Lifespan Development and Educational Sciences  
405 White Hall  
Kent Campus  
330-672-2294  
[www.kent.edu/ehhs/ldes](http://www.kent.edu/ehhs/ldes)

### Description

The Addictions Counseling undergraduate certificate prepares students with all the requisite training hours for licensure eligibility as a chemical dependency counselor in Ohio, issued by the Ohio Chemical Dependency Professionals Board. The certificate supplements existing Kent State health and behavioral health degree programs, such as psychology, health education, and human development and family studies. The certificate also allows in-career professionals to specialize in addictions counseling (e.g., nurses, clergy, rehabilitation counselors, mental health therapists). Successful completion of the first course in the certificate provides students the opportunity to apply for the chemical dependency counselor assistant (CDCA) credential from the Ohio Chemical Dependency Professionals Board.

Course content includes theories and models of addiction and addictive behaviors; pharmacology (i.e., review of substances typically misused, as well as medications used to treat symptoms of substance use disorders); screening and diagnostic assessment of substance use and co-occurring disorders; case conceptualization and treatment planning using the American Society of Addiction Medicine criteria; evidence-based practices in addictions (e.g., motivational interviewing, contingency management); and legal and ethical considerations in addictions counseling.

Experiential training is infused throughout the curriculum (e.g., use of simulated clients in the classroom) and culminates in a practicum in the field at an approved behavioral healthcare facility offering addictions services under the supervision of an approved licensed behavioral healthcare provider.

Students must complete a minimum 16 credit hours of certificate requirements at Kent State University.

### Fully Offered At:

- Kent Campus
- Trumbull Campus

## Admission Requirements

The university affirmatively strives to provide educational opportunities and access to students with varied backgrounds, those with special talents and adult students who graduated from high school three or more years ago.

**Freshman Students on the Kent Campus:** The freshman admission policy on the Kent Campus is selective. Admission decisions are based upon the following: cumulative grade point average, ACT and/or SAT scores, strength of high school college preparatory curriculum and grade trends. The Admissions Office at the Kent Campus may defer the admission of students who do not meet admissions criteria but who demonstrate areas of promise for successful college study. Deferred applicants may begin their college coursework at one of seven regional campuses of Kent State University. For more information on admissions, including additional requirements for some academic programs, visit the admissions website for new freshmen.

**Freshman Students on the Regional Campuses:** Kent State campuses at Ashtabula, East Liverpool, Geauga, Salem, Stark, Trumbull and Tuscarawas, as well as the Regional Academic Center in Twinsburg, have open enrollment admission for students who hold a high school diploma, GED or equivalent.

### English Language Proficiency Requirements for International Students:

All international students must provide proof of English language proficiency (unless they meet specific exceptions) by earning a minimum 525 TOEFL score (71 on the Internet-based version), minimum 75 MELAB score, minimum 6.0 IELTS score or minimum 48 PTE score, or by completing the ESL level 112 Intensive Program. For more information on international admission, visit the Office of Global Education's admission website.

**Transfer, Transitioning and Former Students:** For more information about admission criteria for transfer, transitioning and former students, please visit the admissions website.

**Current Kent State and Transfer Students:** Active Kent State students who wish to change their major must have attempted a minimum 12 credit hours at Kent State and earned a minimum 2.000 overall Kent State GPA to be admitted. Students who have not attempted 12 credit hours at Kent State will be evaluated for admission based on their high school GPA for new students or transfer GPA for transfer students. Transfer students who have not attempted 12 credit hours of college-level coursework at Kent State and/or other institutions will be evaluated based on both their high school GPA and college GPA.

## Program Learning Outcomes

Graduates of this program will be able to:

1. Articulate comprehension of a range of models or theories of addiction and evidence-based practices in addictions counseling.
2. Demonstrate at least minimal competence in addictions-related services, including assessment, treatment planning, counseling session facilitation, and coordination of care.
3. Apply for licensure as chemical dependency counselors in Ohio.

## Program Requirements

### Certificate Requirements

Code	Title	Credit Hours
<b>Certificate Requirements</b>		
CES 34650	PRACTICES AND THEORIES IN ADDICTIONS COUNSELING	3
CES 34654	EVIDENCE-BASED APPROACHES IN ADDICTIONS COUNSELING	3
or CES 37668	INTRODUCTION TO MOTIVATIONAL INTERVIEWING	
CES 37662	INTRODUCTION TO ADDICTIONS COUNSELING	3
CES 37665	PLANNING CARE IN ADDICTIONS COUNSELING	3
CES 37692	ADDICTIONS COUNSELING PRACTICUM (ELR)	4
Minimum Total Credit Hours:		16

### Graduation Requirements

Minimum Certificate GPA	Minimum Overall GPA
2.500	2.000

- Students must complete a minimum 15 credit hours of certificate requirements at Kent State University.

## American Sign Language/English Interpreting - B.S.

### College of Education Health and Human Services

School of Lifespan Development and Educational Services

405 White Hall

Kent Campus

330-672-2294

[www.kent.edu/ehhs/ldes](http://www.kent.edu/ehhs/ldes)

### Description

The Bachelor of Science degree in American Sign Language/English Interpreting prepares students to work with deaf and hard-of-hearing individuals in both educational and community settings, including schools and universities, businesses, medical and mental health agencies and social service offices, among others.

The coursework and nationally certified instructors guide students in developing interpreting expertise, sign language fluency and professional ethics. Coursework encompasses interpreting process models and their application; analytical approaches to professional and ethical decision-making; and interpreting comparative analyses of English and American Sign Language through the study of linguistics, discourse structures and features, pragmatics and sociolinguistics. Students learn

self-assessment strategies for lifelong learning and gain 500 hours of practicum and experience with interpreter mentors.

Graduates may apply for licensure from the State of Ohio to interpret from pre-kindergarten to grade 12. They also have preparation toward the National Interpreter Certification (NIC) and the Educational Interpreter Performance Assessment (EIPA).

### Fully Offered At:

- Kent Campus

## Admission Requirements

Admission to this major is selective. Freshmen students must have a minimum 2.75 high school GPA— for direct admission into the major. Transfer students must have a minimum 2.75 overall GPA for admission.

Students who do not meet the GPA requirement at the time of admission for this major will be admitted to the EHHS General non-degree program until which time they have established a Kent State GPA of 2.750. They may then submit a change of program to declare this major.

**Current Kent State and Transfer Students:** Active Kent State students who wish to change their major must have attempted a minimum 12 credit hours at Kent State and meet all admission criteria listed above to be admitted. Students who have not attempted 12 credit hours at Kent State will be evaluated for admission based on their high school GPA for new students or transfer GPA for transfer students. Transfer students who have not attempted 12 credit hours of college-level coursework at Kent State and/or other institutions will be evaluated based on both their high school GPA and college GPA.

### English Language Proficiency Requirements for International Students:

All international students must provide proof of English language proficiency (unless they meet specific exceptions) by earning a minimum 525 TOEFL score (71 on the Internet-based version), minimum 75 MELAB score, minimum 6.0 IELTS score or minimum 48 PTE Academic score, or by completing the ELS level 112 Intensive Program. For more information on international admission, visit the Office of Global Education's admission website.

## Program Learning Outcomes

Graduates of the program will be able to do the following:

1. Demonstrate native or near-native fluency in spoken and written English (80% of the time as per the NCEIC), American Sign Language, deaf and non-deaf cultures
2. Effectively interpret audio and video texts, as well as live presentations, across a variety of genres and be able to adapt interpretations to consumer modality preferences
3. Demonstrate appropriate interpersonal skills and professionalism across all classroom/program-related settings, while interacting with others, with an awareness of linguistic, cultural, contextual and personality differences
4. Make appropriate and effective ethical decisions, both in practical and authentic interpreting situations in alignment with RID's Code of Professional Conduct and Kent State University's Code of Student Conduct
5. Demonstrate adaptability and teachability
6. Articulate the impact of interpreting models, theories and best practices and how they inform one's work

7. Recognize substantive linguistic and paralinguistic cues from others from a distance of 3-10 feet in a variety of environments

## University Requirements

All students in a bachelor's degree program at Kent State University must complete the following university requirements for graduation.

**NOTE:** University requirements may be fulfilled in this program by specific course requirements. Please see Program Requirements for details.

Destination Kent State: First Year Experience	1
Course is not required for students with 25 transfer credits, excluding College Credit Plus, or age 21+ at time of admission.	
Diversity Domestic/Global (DIVD/DIVG)	2 courses
Students must successfully complete one domestic and one global course, of which one must be from the Kent Core.	
Experiential Learning Requirement (ELR)	varies
Students must successfully complete one course or approved experience.	
Kent Core (see table below)	36-37
Writing-Intensive Course (WIC)	1 course
Students must earn a minimum C grade in the course.	
Upper-Division Requirement	39 (or 42)
Students must successfully complete 39 upper-division (numbered 30000 to 49999) credit hours to graduate. Students in a B.A. and/or B.S. degree in the College of Arts and Sciences must complete 42 upper-division credit hours.	
Total Credit Hour Requirement	120
Some bachelor's degrees require students to complete more than 120 credit hours.	

## Kent Core Requirements

Kent Core Composition (KCMP)	6
Kent Core Mathematics and Critical Reasoning (KMCR)	3
Kent Core Humanities and Fine Arts (KHUM/KFA) (min one course each)	9
Kent Core Social Sciences (KSS) (must be from two disciplines)	6
Kent Core Basic Sciences (KBS/KLAB) (must include one laboratory)	6-7
Kent Core Additional (KADL)	6
<b>Total Credit Hours:</b>	<b>36-37</b>

## Program Requirements

### Major requirements

Code	Title	Credit Hours
<b>Major Requirements (courses count in major GPA)</b>		
ASEI 43100	SURVEY OF THE INTERPRETING PROFESSION (WIC) (min B- grade)	3
ASEI 43102	INTERPRETING PROCESSES I (min C grade)	3
ASEI 43103	INTERPRETING PROCESSES II (min C grade) <sup>1</sup>	3
ASEI 43104	INTERPRETING PROCESSES III (min B- grade) <sup>1</sup>	3
ASEI 43105	TRANSLITERATING (min C grade) <sup>1</sup>	3
ASEI 43106	SCHOOL SETTING INTERPRETING (min C grade)	3

ASEI 43107	COMMUNITY SETTING INTERPRETING (min C grade) <sup>1</sup>	3
ASEI 43108	MEDICAL INTERPRETING (min C grade)	3
ASEI 43109	MENTAL HEALTH INTERPRETING (min C grade)	3
ASEI 43110	DISCOURSE ANALYSIS FOR INTERPRETERS (min C grade) <sup>1</sup>	3
ASEI 43111	THE PROFESSIONAL INTERPRETER (min C grade) <sup>1</sup>	3
ASEI 43112	INTERACTIVE INTERPRETING (min C grade) <sup>1</sup>	3
ASEI 43113	ASL TO ENGLISH INTERPRETING PROCESSES (min C grade)	3
ASEI 43192	ADVANCED PRACTICUM: ASL ENGLISH INTERPRETING (ELR) <sup>1,2</sup>	9
ASEI 49625	INQUIRY SEMINAR FOR ASL-ENGLISH INTERPRETERS (min C grade) <sup>1</sup>	3
ASL 19201	ELEMENTARY AMERICAN SIGN LANGUAGE I (min C grade)	4
ASL 19202	ELEMENTARY AMERICAN SIGN LANGUAGE II (min C grade)	4
ASL 29201	INTERMEDIATE AMERICAN SIGN LANGUAGE I (min C grade)	3
ASL 29202	INTERMEDIATE AMERICAN SIGN LANGUAGE II (min C grade)	3
ASL 39201	ADVANCED AMERICAN SIGN LANGUAGE I (min C grade)	3
ASL 39202	ADVANCED AMERICAN SIGN LANGUAGE II (min C grade)	3
ASL 49108	AMERICAN SIGN LANGUAGE LINGUISTICS I (min C grade)	3
ASL 49401	DEAF CULTURE AND COMMUNITY (min C grade)	3
COMM 35852	INTERCULTURAL COMMUNICATION (DIVG) (min C grade)	3
SPED 43092	DEAF RESIDENTIAL SCHOOL FIELD EXPERIENCE (ELR) <sup>1,2</sup>	1
SPED 43310	LANGUAGE DEVELOPMENT FOR DEAF AND HARD-OF-HEARING STUDENTS (min C grade) <sup>1</sup>	3
<b>Additional Requirements (courses do not count in major GPA)</b>		
PSYC 11762	GENERAL PSYCHOLOGY (DIVD) (KSS)	3
PSYC 20651	CHILD PSYCHOLOGY (DIVD) (KSS)	3
UC 10097	DESTINATION KENT STATE: FIRST YEAR EXPERIENCE	1
Kent Core Composition (min C grade)		6
Kent Core Mathematics and Critical Reasoning		3
Kent Core Humanities and Fine Arts (minimum one course from each)		9
Kent Core Social Sciences		3
Kent Core Basic Sciences (must include one laboratory)		6-7
Kent Core Additional		3
<b>Minimum Total Credit Hours:</b>		<b>121</b>



- <sup>1</sup> Professional Phase coursework.
- <sup>2</sup> For field experiences, residential practicum and advanced practicum that require candidates to be placed within a school or agency setting, the college requires candidates to complete the Bureau of Criminal Investigation and Identification (BCII) and the Federal Bureau of Investigation (FBI) background checks and submit the results to authorized personnel at their assigned school/agency before the beginning of the field experience or the first day of the semester in which the field experience or practicum will take place. Authorized school/agency personnel will determine whether a candidate may participate in fieldwork in that setting. The BCII and FBI background checks are good for one year and are mandatory for licensure application. Electronic fingerprinting is available for BCII and FBI in 221 White Hall and should be completed at least two months prior to field experience residential practicum/advanced practicum. Regional campus students should contact their Regional Campus coordinator to identify fingerprinting availability at each campus. Candidates are responsible for fees incurred for this requirement. For more information on this policy, contact the Director of Clinical Field Experience in 304 White Hall. Visit the Ohio Department of Education (ODE) website at <http://ode.state.oh.us> for more information about background check requirements in Ohio. Contact the Office of Professional Conduct at the ODE for specific information about the results of the background check. Due to the length of time that a student participates in the variety of work experiences within the ASL/English Interpreting program, the student may need to complete a minimum of two background checks. Also, if a student is placed out of state, s/he may need to get a background check completed in that respective state according to the requirements of that state.

upper-division curriculum, including a senior-level practicum, which provides students with professional training in the field of interpreting.

Before students are approved for ASEI 43192, they must do the following:

- Complete all coursework, with the exception of ASEI 43192 and ASEI 49625
  - Possess a 2.750 overall GPA and a 3.000 major GPA
  - Complete the prescribed number of clinical application hours
  - Pass the Sign Language Proficiency Interview (SLPI) at the intermediate level or receive a minimum level 2 on the American Sign Language Proficiency Interview (ASLPI) before October 31 of the semester prior to practicum. The SLPI must be taken at the Ohio School for the Deaf.
- <sup>1</sup> Undergraduate students who have not completed a minimum of 12 Kent State University credit hours will be evaluated for advanced study and professional phase based on their high school GPA for new freshmen or transfer GPA for transfer students.

## Graduation Requirements

Minimum Major GPA	Minimum Overall GPA
3.000	2.750

## Progression Requirements

- To be able to continue in the program, students must be accepted to the professional phase, comprised of ASEI 43103, ASEI 43105, ASEI 43107, ASEI 43110, ASEI 43111, ASEI 43112, ASEI 43192, ASEI 49625, SPED 43092 and SPED 43310. Typically, students must apply for the professional phase by the end of the second week of the fourth semester. To be eligible for the professional phase, students must have the following:
  - Minimum 3.000 major GPA<sup>1</sup>
  - Minimum 2.750 overall GPA<sup>1</sup>
  - Minimum C grade in ASEI 43102, ASL 19201, ASL 19202, ENG 11011 and ENG 21011 (or their equivalents)
  - Minimum B- grade in ASEI 43100
  - Passing score on the portfolio interview after ASL 29202 (students who are placed directly into an advanced ASL course are not required to complete the portfolio interview)

Students who are not able to advance into the professional phase or are not able to pass the proficiency exam will receive a warning and will be required to meet with their faculty and professional advisors to develop a plan of continuation. The plan will include all actions necessary to continue in current program, the opportunity to declare a different program, a timeline of when actions should occur and next steps if actions are not followed. Students who have received a warning the previous term will be reviewed during end-of-term processing to determine their status regarding continuation in the major.

The purpose of the professional phase is to ensure that students in the major have adequate preparation necessary to successfully complete

## Roadmap

This roadmap is a recommended semester-by-semester plan of study for this major. However, courses designated as critical (!) must be completed in the semester listed to ensure a timely graduation.

Semester One		Credits
!	ASL 19201 ELEMENTARY AMERICAN SIGN LANGUAGE I	4
	UC 10097 DESTINATION KENT STATE: FIRST YEAR EXPERIENCE	1
	Kent Core Requirement	3
	Kent Core Requirement	3
	Kent Core Requirement	3
Credit Hours		14
Semester Two		Credits
!	ASL 19202 ELEMENTARY AMERICAN SIGN LANGUAGE II	4
	PSYC 11762 GENERAL PSYCHOLOGY (DIVD) (KSS)	3
	Kent Core Requirement	3
	Kent Core Requirement	3
	Kent Core Requirement	3
Credit Hours		16
Semester Three		Credits
Requirement: minimum 3.000 major GPA and 2.750 overall GPA by end of semester		
!	ASEI 43100 SURVEY OF THE INTERPRETING PROFESSION (WIC)	3
!	ASEI 43106 SCHOOL SETTING INTERPRETING	3
!	ASL 29201 INTERMEDIATE AMERICAN SIGN LANGUAGE I	3
	Kent Core Requirement	3
	Kent Core Requirement	3
Credit Hours		15
Semester Four		Credits
!	ASEI 43102 INTERPRETING PROCESSES I	3
	ASEI 43113 ASL TO ENGLISH INTERPRETING PROCESSES	3
!	ASL 29202 INTERMEDIATE AMERICAN SIGN LANGUAGE II	3
!	ASL 49401 DEAF CULTURE AND COMMUNITY	3
	PSYC 20651 CHILD PSYCHOLOGY (DIVD) (KSS)	3
	Kent Core Requirement	3
Credit Hours		18
Semester Five		Credits
!	ASEI 43103 INTERPRETING PROCESSES II	3
!	ASEI 43108 MEDICAL INTERPRETING	3
!	ASEI 43111 THE PROFESSIONAL INTERPRETER	3
!	ASL 39201 ADVANCED AMERICAN SIGN LANGUAGE I	3
!	SPED 43310 LANGUAGE DEVELOPMENT FOR DEAF AND HARD-OF-HEARING STUDENTS	3
Credit Hours		15
Semester Six		Credits
!	ASEI 43105 TRANSLITERATING	3
!	ASEI 43107 COMMUNITY SETTING INTERPRETING	3
!	ASEI 43109 MENTAL HEALTH INTERPRETING	3
!	ASEI 43110 DISCOURSE ANALYSIS FOR INTERPRETERS	3
!	ASL 39202 ADVANCED AMERICAN SIGN LANGUAGE II	3
!	SPED 43092 DEAF RESIDENTIAL SCHOOL FIELD EXPERIENCE (ELR)	1
Credit Hours		16
Semester Seven		Credits
!	ASEI 43104 INTERPRETING PROCESSES III	3

!	ASEI 43112 INTERACTIVE INTERPRETING	3
!	ASL 49108 AMERICAN SIGN LANGUAGE LINGUISTICS I	3
	COMM 35852 INTERCULTURAL COMMUNICATION (DIVG)	3
Kent Core Requirement		3
Credit Hours		15
Semester Eight		Credits
!	ASEI 43192 ADVANCED PRACTICUM: ASL ENGLISH INTERPRETING (ELR)	9
!	ASEI 49625 INQUIRY SEMINAR FOR ASL-ENGLISH INTERPRETERS	3
Credit Hours		12
Minimum Total Credit Hours:		121

## American Sign Language/English Interpreting Licensure Preparation (Non-degree)

### College of Education Health and Human Services

School of Lifespan Development and Educational Sciences  
405 White Hall  
Kent Campus  
330-672-2294  
[www.kent.edu/ehhs/ldes](http://www.kent.edu/ehhs/ldes)

## Description

The non-degree program in American Sign Language/English Interpreting Licensure Preparation is approved by the Ohio Department of Education to prepare students for state licensing eligibility.

This non-degree program does not lead to a master's degree. Students interested in obtaining an interpreting license and a master's degree must also be fully admitted into a master's degree program.

### Fully Offered At:

- Kent Campus

## Admission Requirements

- Bachelor's degree from an accredited college or university
- Minimum 3.000 undergraduate GPA on a 4.000 point scale
- Official transcript(s)
- Goal statement
- Two letters of recommendation
- Questions in Anticipation of Licensure form

For more information about graduate admission, please visit the Graduate Studies website.

## Program Requirements

### Licensure Requirements

Code	Title	Credit Hours
<b>Prerequisite Requirements</b>		
ASL 19201	ELEMENTARY AMERICAN SIGN LANGUAGE I	
ASL 19202	ELEMENTARY AMERICAN SIGN LANGUAGE II	
SPED 63200	INTRODUCTION TO EXCEPTIONALITIES	
<b>Licensure Requirements</b>		
ASEI 43112	INTERACTIVE INTERPRETING	3
ASEI 43113	ASL TO ENGLISH INTERPRETING PROCESSES	3
ASEI 49625	INQUIRY SEMINAR FOR ASL-ENGLISH INTERPRETERS	3
ASL 29201	INTERMEDIATE AMERICAN SIGN LANGUAGE I	3
ASL 29202	INTERMEDIATE AMERICAN SIGN LANGUAGE II	3
ASL 39201	ADVANCED AMERICAN SIGN LANGUAGE I	3
ASL 39202	ADVANCED AMERICAN SIGN LANGUAGE II	3
SPED 53092	DEAF RESIDENTIAL SCHOOL FIELD EXPERIENCE	1
SPED 53100	SURVEY OF THE INTERPRETING PROFESSION	3
SPED 53101	DEAF CULTURE AND COMMUNITY	3
SPED 53102	INTERPRETING PROCESSES I	3
SPED 53103	INTERPRETING PROCESSES II	3
SPED 53104	INTERPRETING PROCESSES III	3
SPED 53105	TRANSLITERATING	3
SPED 53106	SCHOOL SETTING INTERPRETING	3
SPED 53107	COMMUNITY SETTING INTERPRETING	3
SPED 53108	AMERICAN SIGN LANGUAGE LINGUISTICS AND USAGE	3
SPED 53110	DISCOURSE ANALYSIS FOR INTERPRETERS	3
SPED 53111	THE PROFESSIONAL INTERPRETER	3
SPED 53192	ADVANCED PRACTICUM: ASL ENGLISH INTERPRETING	3
SPED 53309	INTRODUCTION TO DEAF STUDIES	3
SPED 53310	LANGUAGE DEVELOPMENT FOR DEAF AND HARD-OF-HEARING STUDENTS	3
Minimum Total Credit Hours:		64

### Licensure Information

Prior to program completion, the candidate must demonstrate proficiencies in the following areas (including but not limited to): Data literacy and analysis, use of research and assessment data, leadership and collaboration, utilizing and supporting appropriate technology for the discipline, and application of professional dispositions, laws and policies, codes of ethics and professional standards appropriate to their field of specialization.

## Autism Spectrum Disorders - Graduate Certificate

### College of Education Health and Human Services

School of Lifespan Development and Educational Sciences  
405 White Hall  
Kent Campus  
330-672-2294  
www.kent.edu/ehhs/ldes

## Description

The Autism Spectrum Disorders (ASD) graduate certificate prepares students for understanding and addressing the needs of individuals with autism across the spectrum, across the lifespan and in varied contexts, including general and special education classrooms and community settings. Students will gain knowledge and skills related to diagnostic and learning style characteristics, causes and medical intervention, early signs and assessment protocols, social-communicative development and disorders, theoretical models and implications of those models for intervention, family characteristics and evidence-based intervention practices. This program is most relevant for students who want to specialize in ASD and/or professionals assuming leadership roles in supporting individuals with ASD and their families in the programs and organizations in which they work.

### Fully Offered At:

- Online
- Kent Campus

## Admission Requirements

- Bachelor's degree from an accredited institution
- Minimum 3.000 GPA
- Official transcript(s)
- Goal statement
- Two letters of recommendation

## Program Requirements

### Certificate Requirements

Code	Title	Credit Hours
<b>Certificate Requirements</b>		
SPA 64309	AUTISM SPECTRUM DISORDERS: THEORY AND DIAGNOSIS <sup>1</sup>	3
SPA 64310	AUTISM SPECTRUM DISORDERS: LIFESPAN INTERVENTIONS <sup>2</sup>	3
SPA 64501	SOCIAL COMMUNICATION ASPECTS OF AUTISM SPECTRUM DISORDER	3
SPED 53030	APPLIED BEHAVIOR ANALYSIS I: THEORY AND TECHNIQUES	3
SPED 63030	PHARMACOLOGICAL INTERVENTIONS IN SPECIAL EDUCATION	3
or SPED 63959	MEDICAL ASPECTS OF LIFESPAN DISABILITIES	
Certificate Electives, choose from the following:		1-3
SPA 64096	INDIVIDUAL INVESTIGATION:SPEECH PATHOLOGY AND AUDIOLOGY	
SPA 64098	RESEARCH	
SPA 64199	THESIS I	
SPED 53031	APPLIED BEHAVIOR ANALYSIS II: APPLICATION	
SPED 63995	SPECIAL TOPICS IN SPED	
SPED 63949	AUTISM SPECTRUM DISORDER CAPSTONE	
Minimum Total Credit Hours:		16

## Graduation Requirements

Minimum Certificate GPA	Minimum Overall GPA
3.000	-

- Students declared in a doctoral degree should enroll in the doctoral level version of these courses, if offered.

## Autism Spectrum Disorders - Minor

### College of Education Health and Human Services

School of Lifespan Development and Educational Sciences

405 White Hall

Kent Campus

330-672-2294

[www.kent.edu/ehhs/ldes](http://www.kent.edu/ehhs/ldes)

## Description

The Autism Spectrum Disorders (ASD) minor is an interdisciplinary program, between Special Education and Speech Pathology and Audiology. The minor prepares students to understand and address the needs of individuals with ASD across the spectrum, across the lifespan and in varied contexts, including general and special education classrooms and community settings.

Students gain knowledge and skills related to the following:

- Diagnostic and learning style characteristics
- Causes and medical intervention
- Early signs and assessment protocols
- Social-communicative development and disorders
- Theoretical models and the implications of those models for intervention
- Family characteristics
- Evidence-based intervention practices

The ASD minor is particularly relevant for students with a major or interest in special education, speech pathology, audiology, occupational and physical therapy, psychology and human development and family studies.

### Fully Offered At:

- Kent Campus

## Admission Requirements

Admission to a minor is open to students declared in a bachelor's degree, the A.A.B. or A.A.S. degree or the A.T.S. degree (not Individualized Program major). Students declared only in the A.A. or A.S. degree or the A.T.S. degree in Individualized Program may not declare a minor. Students may not pursue a minor and a major in the same discipline.

To declare this minor, students must have attempted a minimum 12 credit hours at Kent State and earned a minimum 2.750 overall Kent State GPA. Students who have not attempted 12 credit hours at Kent State will be evaluated for admission based on their high school GPA for new students or transfer GPA for transfer students. Transfer students who have not attempted 12 credit hours of college-level coursework at Kent State and/or other institutions will be evaluated based on both their high school GPA and college GPA.

## Minor Requirements

Code	Title	Credit Hours
<b>Minor Requirements</b>		
SPA 44010	SOCIAL COMMUNICATION DEVELOPMENT AND DISORDERS IN AUTISM SPECTRUM DISORDERS	3
SPA 44030	AUTISM SPECTRUM DISORDERS OVER THE LIFESPAN	3
SPED 43030	APPLIED BEHAVIOR ANALYSIS I: THEORY AND TECHNIQUES	3
SPED 44020	MEDICAL ASPECTS OF AUTISM SPECTRUM DISORDERS	3
SPED 44309	AUTISM SPECTRUM DISORDERS: THEORY AND DIAGNOSIS	3
Minimum Total Credit Hours:		15

## Graduation Requirements

Minimum Minor GPA	Minimum Overall GPA
2.750	2.000

- Minimum 6 credit hours in the minor must be upper-division coursework (30000 and 40000 level).
- Minimum 6 credit hours in the minor must be outside of the course requirements for any major or other minor the student is pursuing.
- Minimum 50 percent of the total credit hours for the minor must be taken at Kent State (in residence).

## Behavioral Intervention Specialist - Graduate Certificate

### College of Education Health and Human Services

School of Lifespan Development and Educational Sciences

405 White Hall

Kent Campus

330-672-2294

[www.kent.edu/ehhs/ldes](http://www.kent.edu/ehhs/ldes)

## Description

The Behavioral Intervention Specialist graduate certificate is a highly-specialized sequence that imbues the theoretical orientation and practical application of Applied Behavior Analysis. Through coursework in special education, as well as supervised field-based experiences, students gain specialized knowledge and skills to collaborate with professional teams and parents to develop, implement and evaluate positive behavior support programs for children and youths with behavioral concerns. The Behavioral Intervention Specialist course sequence has been designated as a Verified Course Sequence by the Behavior Analyst Certification Board. Students seeking the Board Certified Behavior Analyst (BCBA) credential must meet additional requirements outlined by the Behavior Analyst Certification Board.

### Fully Offered At:

- Online
- Kent Campus

## Admission Requirements

- Bachelor's or master's degree in special education or related field from an accredited college or university
- Official transcript(s)
- Goal statement
- Two letters of recommendation
- English language proficiency requirements - all international students must provide proof of English language proficiency (unless they meet specific exceptions) by earning one of the following:
  - Minimum 550 TOEFL PBT score (paper-based version)
  - Minimum 79 TOEFL IBT score (Internet-based version)
  - Minimum 77 MELAB score
  - Minimum 6.5 IELTS score
  - Minimum 58 PTE score

For more information about graduate admission, please visit the graduate admission website. For more information on international admission, visit the Office of Global Education's admission website.

## Program Learning Outcomes

Graduates of this program will be able to:

1. Identify the goals of behavior analysis as a science
2. Explain the philosophical assumptions underlying the science of behavior analysis
3. Describe and explain behavior from the perspective of radical behaviorism
4. Distinguish among behaviorism, the experimental analysis of behavior, applied behavior analysis and professional practice guided by the science of behavior analysis
5. Describe and define the dimensions of applied behavior analysis
6. Define and provide examples of the following:
  - behavior, response, and response class
  - stimulus and stimulus class
  - respondent and operant conditioning
  - positive and negative reinforcement contingencies
  - schedules of reinforcement
  - positive and negative punishment contingencies
  - automatic and socially mediated contingencies
  - unconditioned, conditioned and generalized reinforcers and punishers
  - operant extinction
  - stimulus control
  - discrimination, generalization and maintenance
  - motivating operations
  - rule-governed and contingency shaped behavior
  - verbal operants and define
  - derived stimulus relations

## Program Requirements

### Certificate Requirements

Code	Title	Credit Hours
<b>Certificate Requirements</b>		
SPED 53030	APPLIED BEHAVIOR ANALYSIS I: THEORY AND TECHNIQUES	3
SPED 53031	APPLIED BEHAVIOR ANALYSIS II: APPLICATION	3
SPED 63031	PROGRAM DEVELOPMENT IN APPLIED BEHAVIOR ANALYSIS	3
SPED 63032	ADVANCED INTERVENTIONS FOR ADDRESSING SEVERE BEHAVIOR	3
SPED 63033	ETHICAL AND PROFESSIONAL CONDUCT IN APPLIED BEHAVIOR ANALYSIS	3
SPED 63034	PRINCIPLES AND CONCEPTS IN APPLIED BEHAVIOR ANALYSIS	3
SPED 63301	SINGLE SUBJECT RESEARCH METHODS	3
SPED 64892	ADVANCED PRACTICUM	3
Minimum Total Credit Hours:		24

### Graduation Requirements

Minimum Certificate GPA	Minimum Overall GPA
3.000	

- Students declared in a doctoral degree should enroll in the doctoral level version of these courses, if offered.

## Career and Community Studies (Non-Degree)

### College of Education Health and Human Services

School of Lifespan Development and Educational Sciences  
405 White Hall  
Kent Campus  
330-672-2294  
[www.kent.edu/ehhs/ldes](http://www.kent.edu/ehhs/ldes)

### Description

Career and Community Studies is a college-based, transition, non-degree program to prepare students with intellectual and developmental disabilities, traumatic brain injury and autism (ages 18 and older) for adult life through academic pursuits, peer socialization, and career discovery and preparation. The program integrates inclusive classes, a typical college experience, and a transition curriculum to assist students in achieving adult roles and a quality of life in a community of their choice.

The first year of the program is designed as a foundation with courses covering disability issues, personal development, health and wellness, and literacies. Year two allows students to extend their knowledge and skills in participating in college-level courses and other campus environments. The last two years focus on career-field specialization with courses in independent living, life-long learning competencies, and career development and employment, as well as internships in the community where students apply their learning in jobs of choice.



**Fully Offered At:**

- Kent Campus

**Admission Requirements**

The program is limited to 10-12 students each fall. Students participating in the program experience intellectual and developmental disabilities that may affect some intellectual functioning and adaptive behavior. Other qualifications include documentation of past successful work, academic, leadership, and community participation. Also required for admission are a completed application, reference letters, and an in-person interview with the CCS admission committee.

**Program Learning Outcomes**

Graduates of this program will be able to:

1. Become more self-determined persons who are better prepared for independent living and the achievement of career goals.
2. Gain confidence in critical and independent thinking, and use their own voice and vision in order to be active and informed citizens.
3. Understand basic concepts of the academic disciplines, and apply imagination and creativity as they begin a lifelong pursuit of knowledge.
4. Demonstrate awareness of ethical implications of their own actions, and be positive role models who contribute to societal views concerning inclusion, community, and tolerance for diversity.

**Program Requirements****MAJOR REQUIREMENTS**

Code	Title	Credit Hours
<b>Major Requirements (courses count in major GPA)</b>		
CCS 00005	COLLEGE ORIENTATION <sup>1</sup>	1
CCS 00010	PERSONAL EXPLORATION I: NUTRITION AND PHYSICAL FITNESS	3
CCS 00015	ACADEMIC EXPERIENCE I: DISABILITY AWARENESS	3
CCS 00020	TECHNOLOGY LABORATORY I	1
CCS 00025	FINANCIAL LITERACY I: BUDGETING PERSONAL EXPENSES IN COLLEGE	1
CCS 00030	PHYSICAL EDUCATION I	1
CCS 00035	HEALTH AND WELLNESS I: PERSONAL SOCIAL SKILLS	3
CCS 00040	GET OUT OF YOUR COMFORT ZONE I: PREPARING FOR SUCCESS	3
CCS 00105	INTRODUCTION TO CAREER EXPLORATION	1
CCS 00110	PERSONAL EXPLORATION II: INDEPENDENT LIVING AND LEISURE EDUCATION	3
CCS 00115	ACADEMIC EXPERIENCE II: SELF-DETERMINATION	3
CCS 00120	TECHNOLOGY LABORATORY II	1
CCS 00125	FINANCIAL LITERACY II: BUDGETING PERSONAL EXPENSES AFTER COLLEGE	1
CCS 00130	PHYSICAL EDUCATION II <sup>2</sup>	1
CCS 00135	HEALTH AND WELLNESS II: HUMAN SEXUALITY	3
CCS 00140	GET OUT OF YOUR COMFORT ZONE II: VOLUNTEERING	3
CCS 00205	CAREER EXPLORATION I	3

CCS 00210	ACADEMIC SUCCESS I	3
CCS 00235	HEALTH AND WELLNESS III: INJURY PREVENTION	3
CCS 00292	SOPHOMORE PRACTICUM I	3
CCS 00305	CAREER EXPLORATION II	3
CCS 00310	ACADEMIC SUCCESS II	3
CCS 00335	HEALTH AND WELLNESS IV: HEALTHY LIVING AND SUBSTANCE ABUSE	3
CCS 00392	SOPHOMORE PRACTICUM II	3
CCS 00405	CAREER PREPARATION I: CHOOSING YOUR CAREER	3
CCS 00420	ACADEMIC SUPPORT I	3
CCS 00492	JUNIOR PRACTICUM III	4
CCS 00505	CAREER PREPARATION II	3
CCS 00520	ACADEMIC SUPPORT II	3
CCS 00592	JUNIOR PRACTICUM IV	4
CCS 00605	COMMUNITY LIFE I: PREPARE FOR EMPLOYMENT AFTER COLLEGE	1
CCS 00606	COMMUNITY LIFE I LABORATORY	3
CCS 00692	SENIOR INTERNSHIP I	1-12
CCS 00705	COMMUNITY LIFE II: MAKING COMMUNITY CONNECTIONS	1
CCS 00706	COMMUNITY LIFE II LABORATORY	3
CCS 00792	SENIOR INTERNSHIP II	1-12

**Additional Requirements (courses do not count in major GPA)**

CCS 00196	FRESHMAN INDIVIDUAL STUDY <sup>3</sup>	1-3
CCS 00296	SOPHOMORE INDEPENDENT STUDY <sup>3</sup>	1-3
CCS 00395	SPECIAL TOPICS <sup>4</sup>	1-4
CCS 00396	JUNIOR INDEPENDENT STUDY <sup>3</sup>	1-3
CCS 00495	SPECIAL TOPICS <sup>4</sup>	1-4
CCS 00496	SENIOR INDEPENDENT STUDY <sup>3</sup>	1-3
CCS 00595	SPECIAL TOPICS <sup>4</sup>	1-4
CCS 00695	SPECIAL TOPICS <sup>4</sup>	1-4
CCS 00795	SPECIAL TOPICS <sup>4</sup>	1-4

Minimum Total Credit Hours: 120

<sup>1</sup> Students enrolled in CCS 00005 also will attend sessions of UC 10097.

<sup>2</sup> Students enrolled in CCS 00030 and CCS 00130 also will attend sessions of different Physical Activity, Wellness and Sport (PWS) courses.

<sup>3</sup> Students enrolled in CCS 00196 will need prior approval from their CCS academic advisor and the topic must pertain to a career field of interest.

<sup>4</sup> Students enrolled in special topics courses also will attend sessions of Kent State courses selected in consultation with an advisor.

**Graduation Requirement**

Minimum Major GPA	Minimum Overall GPA
2.000	2.000

**Career and Community Studies-College Preparation (Non-Degree)**

College of Education Health and Human Services  
School of Lifespan Development and Educational Sciences

405 White Hall  
Kent Campus  
330-672-2294  
www.kent.edu/ehhs/ldes

## Description

Career and Community Studies-College Preparation is a college-based, transition, non-degree program to prepare students with intellectual and developmental disabilities, traumatic brain injury and autism (ages 18 and older) for adult life through academic pursuits, peer socialization, and career discovery and preparation. The program integrates inclusive classes, a typical college experience, and a transition curriculum to prepare students who have the goal to enter a degree major but who benefit from a supportive intermediate program to best prepare for academic success.

The first year of the program is designed as a foundation with courses covering disability issues, personal development, health and wellness, and inclusive KSU courses. Year two allows students to extend their knowledge and skills by participating in supported college-level courses and other campus environments to increase awareness and success in academic and social skill development.

### Fully Offered At:

- Kent Campus

## Admission Requirements

The program is limited to 10-12 students each fall. Students participating in the program experience intellectual and developmental disabilities that may affect some intellectual functioning and adaptive behavior. Other qualifications include documentation of past successful work, academic, leadership, and community participation. Also required for admission are a completed application, reference letters, and an in-person interview with the CCS admission committee.

## Program Learning Outcomes

Graduates of this program will be able to:

1. Become more self-determined persons who are better prepared for independent living and the achievement of career goals.
2. Gain confidence in critical and independent thinking and use their own voice and vision in order to be active and informed citizens.
3. Understand basic concepts of the academic disciplines and apply imagination and creativity as they begin a lifelong pursuit of knowledge.
4. Demonstrate awareness of ethical implications of their own actions and be positive role models who contribute to societal views concerning inclusion, community, and tolerance for diversity.

## Program Requirements

### Major Requirements

Code	Title	Credit Hours
<b>Major Requirements (courses count in major GPA)</b>		
CCS 00005	COLLEGE ORIENTATION	1
CCS 00010	PERSONAL EXPLORATION I: NUTRITION AND PHYSICAL FITNESS	3

CCS 00015	ACADEMIC EXPERIENCE I: DISABILITY AWARENESS	3
CCS 00020	TECHNOLOGY LABORATORY I	1
CCS 00025	FINANCIAL LITERACY I: BUDGETING PERSONAL EXPENSES IN COLLEGE	1
CCS 00030	PHYSICAL EDUCATION I	1
CCS 00035	HEALTH AND WELLNESS I: PERSONAL SOCIAL SKILLS	3
CCS 00040	GET OUT OF YOUR COMFORT ZONE I: PREPARING FOR SUCCESS	3
CCS 00105	INTRODUCTION TO CAREER EXPLORATION	1
CCS 00115	ACADEMIC EXPERIENCE II: SELF-DETERMINATION	3
CCS 00120	TECHNOLOGY LABORATORY II	1
CCS 00135	HEALTH AND WELLNESS II: HUMAN SEXUALITY	3
CCS 00140	GET OUT OF YOUR COMFORT ZONE II: VOLUNTEERING	3
CCS 00205	CAREER EXPLORATION I	3
CCS 00210	ACADEMIC SUCCESS I	3
CCS 00235	HEALTH AND WELLNESS III: INJURY PREVENTION	3
CCS 00305	CAREER EXPLORATION II	3
CCS 00310	ACADEMIC SUCCESS II	3
CCS 00335	HEALTH AND WELLNESS IV: HEALTHY LIVING AND SUBSTANCE ABUSE	3
<b>Additional Requirements (courses do not count in major GPA)</b>		
CCS 00395	SPECIAL TOPICS	3
CCS 00495	SPECIAL TOPICS	6
CCS 00595	SPECIAL TOPICS	6
Minimum Total Credit Hours:		60

## GRADUATION REQUIREMENT

Minimum Major GPA	Minimum Overall GPA
2.000	2.000

## Career and Community Studies-Employment Readiness (Non-Degree)

**College of Education Health and Human Services**  
School of Lifespan Development and Educational Sciences  
405 White Hall  
Kent Campus  
330-672-2294  
www.kent.edu/ehhs/ldes

## Description

Career and Community Studies-Employment Readiness is a college-based, transition, non-degree program to prepare students with intellectual and developmental disabilities, and autism (ages 18 and older) for adult life through academic pursuits, peer socialization, and career discovery and preparation. The program integrates inclusive classes, a typical college experience, and a transition curriculum to assist students in achieving adult roles and a quality of life in a community of their choice.

The first year of the program is designed as a foundation with courses covering self-determination, disability awareness and laws that protect disability rights, personal development, health and wellness, and employment skill development. Year two allows students to expand employment skills through career exploration courses and internship experiences.

### FULLY OFFERED AT:

- Kent Campus

## Admission Requirements

The program is limited to 10-12 students each fall. Students participating in the program experience intellectual and developmental disabilities that may affect some intellectual functioning and adaptive behavior. Other qualifications include documentation of past successful work, academic, leadership, and community participation. Also required for admission are a completed application, reference letters, and an in-person interview with the CCS admission committee.

## Program Learning Outcomes

Graduates of this program will be able to:

1. Become more self-determined persons who are better prepared for independent living and the achievement of career goals.
2. Gain confidence in critical and independent thinking and use their own voice and vision in order to be active and informed citizens.
3. Understand basic concepts of the academic disciplines and apply imagination and creativity as they begin a lifelong pursuit of knowledge.
4. Demonstrate awareness of ethical implications of their own actions and be positive role models who contribute to societal views concerning inclusion, community, and tolerance for diversity.

## Program Requirements

### Major Requirements

Code	Title	Credit Hours
<b>Major Requirements (courses count in major GPA)</b>		
CCS 00005	COLLEGE ORIENTATION	1
CCS 00015	ACADEMIC EXPERIENCE I: DISABILITY AWARENESS	3
CCS 00020	TECHNOLOGY LABORATORY I	1
CCS 00025	FINANCIAL LITERACY I: BUDGETING PERSONAL EXPENSES IN COLLEGE	1
CCS 00030	PHYSICAL EDUCATION I	1
CCS 00035	HEALTH AND WELLNESS I: PERSONAL SOCIAL SKILLS	3
CCS 00040	GET OUT OF YOUR COMFORT ZONE I: PREPARING FOR SUCCESS	3
CCS 00105	INTRODUCTION TO CAREER EXPLORATION	1
CCS 00115	ACADEMIC EXPERIENCE II: SELF-DETERMINATION	3
CCS 00120	TECHNOLOGY LABORATORY II	1
CCS 00125	FINANCIAL LITERACY II: BUDGETING PERSONAL EXPENSES AFTER COLLEGE	1
CCS 00135	HEALTH AND WELLNESS II: HUMAN SEXUALITY	3
CCS 00140	GET OUT OF YOUR COMFORT ZONE II: VOLUNTEERING	3

CCS 00205	CAREER EXPLORATION I	3
CCS 00235	HEALTH AND WELLNESS III: INJURY PREVENTION	3
CCS 00292	SOPHOMORE PRACTICUM I	3
CCS 00305	CAREER EXPLORATION II	3
CCS 00335	HEALTH AND WELLNESS IV: HEALTHY LIVING AND SUBSTANCE ABUSE	3
CCS 00392	SOPHOMORE PRACTICUM II	3
CCS 00605	COMMUNITY LIFE I: PREPARE FOR EMPLOYMENT AFTER COLLEGE	1
CCS 00606	COMMUNITY LIFE I LABORATORY	3
CCS 00692	SENIOR INTERNSHIP I	5
CCS 00792	SENIOR INTERNSHIP II	8
Minimum Total Credit Hours:		60

## Graduation Requirements

Minimum Major GPA	Minimum Overall GPA
2.000	2.000

## Clinical Mental Health Counseling - M.Ed.

### College of Education Health and Human Services

School of Lifespan Development and Educational Sciences

405 White Hall

Kent Campus

330-672-2294

[www.kent.edu/ehhs/ldes](http://www.kent.edu/ehhs/ldes)

## Description

The Master of Education degree in Clinical Mental Health Counseling prepares students for employment as counselors in community-based human service agencies (e.g., substance abuse facilities, mental health centers, child and family service agencies) and private counseling facilities.

This program is designed to fulfill the educational requirements for licensure as a Licensed Professional Clinical Counselor in the state of Ohio. The program may be pursued on a part-time or full-time basis, although some full-time study is urged.

State and Federal background checks are required for internship experiences and to apply for Counselor Trainee status. See the Practicum and Internship Coordinator for more information.

### Fully Offered At:

- Kent Campus

## Accreditation

Council for the Accreditation of Counseling and Related Educational Programs (CACREP)

## Admission Requirements

- Bachelor's degree from an accredited college or university for unconditional admission

- Minimum 3.000 undergraduate GPA on a 4.000 point scale for unconditional admission
- Official transcript(s)
- Goal statement
- Questions in Anticipation of Licensure Form
- Supplemental Interview Form (required for spring 2021 and later)
- Two letters of recommendation
- Interview
- English language proficiency - all international students must provide proof of English language proficiency (unless they meet specific exceptions) by earning one of the following:
  - Minimum 550 TOEFL PBT score (paper-based version)
  - Minimum 79 TOEFL IBT score (Internet-based version)
  - Minimum 77 MELAB score
  - Minimum 6.5 IELTS score
  - Minimum 58 PTE score
  - Minimum 110 Duolingo English Test score

For more information about graduate admissions, please visit the Graduate Studies admission website. For more information on international admission, visit the Office of Global Education's admission website.

## Program Learning Outcomes

Graduates of this program will be able to:

1. Engage in extensive practica experiences in an on-site counseling facility that utilizes multiple levels of supervision;
2. Engage in a minimum of four semesters of supervised clinical experiences designed to effectively work with clients from a multicultural and pluralistic society;
3. Demonstrate knowledge in assessment, group work, career development, helping relationships human growth and development, social and cultural diversity, research, and program evaluation, and professional orientation and ethical practice;
4. Meet the academic components required by the Ohio Counselor, Social Worker, and Marriage and Family Therapist Board to be eligible to sit for the current licensure assessments;
5. Understand legal and ethical standards and practice in a legal and ethical manner;
6. Understand and demonstrate multicultural responsiveness;
7. Demonstrate a strong counselor identity;
8. Demonstrate strong clinical skills in case conceptualization, diagnosis, and treatment planning;
9. Understand and demonstrate sound counseling skills and techniques within a theoretical framework in both individual and group counseling;
10. Understand the importance of research in advancing the counseling profession including how to critique research to inform counseling practice; and
11. Effectively work with crisis, trauma, suicide, and at-risk clients.

## Program Requirements

### Major Requirements

Code	Title	Credit Hours
<b>Major Requirements</b>		
CES 65511	RESEARCH IN COUNSELING	3
CES 67492	PRACTICUM I: CLINICAL MENTAL HEALTH COUNSELING	3
CES 67530	COUNSELING THEORIES	3
CES 67531	COUNSELING SKILLS AND TECHNIQUES	3
CES 67580	MULTICULTURAL COUNSELING	3
CES 67628	DIAGNOSIS IN COUNSELING	3
CES 67662	FOUNDATIONS OF ADDICTIONS COUNSELING	3
CES 67592	PRACTICUM II: CLINICAL MENTAL HEALTH COUNSELING	3
CES 67663	ORIENTATION AND ETHICS: CLINICAL MENTAL HEALTH COUNSELING	3
CES 67792	INTERNSHIP I: CLINICAL MENTAL HEALTH COUNSELING	3
CES 67820	GROUP WORK:THEORY AND TECHNIQUES	3
CES 68126	INTRODUCTION TO ASSESSMENT IN COUNSELING	3
CES 68128	CLINICAL ASSESSMENT IN COUNSELING	3
CES 68130	PSYCHOPATHOLOGY FOR COUNSELORS	3
CES 68167	CASE CONCEPTUALIZATION AND TREATMENT PLANNING	3
CES 68182	CAREER COUNSELING	3
CES 67892	INTERNSHIP II: CLINICAL MENTAL HEALTH COUNSELING	3
EPSY 65523	LIFE SPAN DEVELOPMENT	3
Advisor Approved Electives, choose from the following:		6
CES 67668	MOTIVATIONAL INTERVIEWING	
CES 68066	COUNSELING ADOLESCENTS	
CES 68067	COUNSELING CHILDREN	
CES 68168	ADVANCED COUNSELING THEORIES	
CES 68529	COUPLES THERAPY:THEORY AND TECHNIQUES	
CES 68533	FAMILY THERAPY: THEORY AND TECHNIQUES	
CES 68538	ADVANCED MULTICULTURAL COUNSELING	
Minimum Total Credit Hours:		60

### Graduation Requirements

The M.Ed. degree curriculum is a minimum of 60 credit hours, including a 600 clock-hour internship.

### Licensure Information

Candidates seeking Ohio license are required to pass specific assessments in order to apply for licensure. Students should consult their advisors for specific program requirements and refer to the Ohio Counselor, Social Worker and Marriage and Family Therapy Board website for more information on assessments specific to licensure type.

## Clinical Rehabilitation Counseling - M.Ed.

College of Education Health and Human Services  
School of Lifespan Development and Educational Sciences

405 White Hall  
 Kent Campus  
 330-672-2294  
[www.kent.edu/ehhs/ldes](http://www.kent.edu/ehhs/ldes)

*Program is pending approval from the Ohio Department of Higher Education.*

## Description

The Master of Education degree in Clinical Rehabilitation Counseling features an interdisciplinary approach that focuses on the inclusion of persons with disabilities into the life of the community. Graduates are employed in vocational rehabilitation settings, mental health and developmental disabilities agencies, drug and alcohol rehabilitation, public and private hospitals, comprehensive rehabilitation centers, correctional facilities, community-based programs, private industry, proprietary rehabilitation and student disability services in higher education.

The program requires two years of study, culminating in a semester-long internship under the field supervision of a certified clinical rehabilitation counselor. Faculty advise students in the development of a curriculum plan that includes required core, foundational and elective courses. Early and continued exposure to rehabilitation practice is provided as students progress through the program.

### Fully Offered At:

- Kent Campus

## Accreditation

Council for the Accreditation of Counseling and Related Educational Programs (CACREP)

## Admission Requirements

- Bachelor's degree from an accredited college or university for unconditional admission
- Minimum 3.000 undergraduate GPA on a 4.000 point scale for unconditional admission
- Official transcript(s)
- Goal statement
- Questions in Anticipation of Licensure form
- Supplemental Interview form (required for spring 2021 admission)
- Two letters of recommendation
- Interview
- English language proficiency - all international students must provide proof of English language proficiency (unless they meet specific exceptions) by earning one of the following:
  - Minimum 550 TOEFL PBT score (paper-based version)
  - Minimum 79 TOEFL IBT score (Internet-based version)
  - Minimum 77 MELAB score
  - Minimum 6.5 IELTS score
  - Minimum 58 PTE score
  - Minimum 110 Duolingo English Test score

For more information about graduate admissions, please visit the Graduate Studies admission website. For more information on international admission, visit the Office of Global Education's admission website.

## Program Learning Outcomes

Graduates of this program will be able to:

1. Effectively work with clients from a multicultural and pluralistic society.
2. Demonstrate knowledge in assessment, groupwork, career development, helping relationships human growth and development, social and cultural diversity, research and program evaluation and professional orientation and ethical practice.
3. Meet the academic components required to become a certified rehabilitation counselor in Ohio.
4. Understand legal and ethical standards and practice in a legal and ethical manner.
5. Understand and demonstrate multicultural responsiveness.
6. Demonstrate a strong counselor identity.
7. Demonstrate strong clinical skills in case conceptualization, diagnosis, treatment planning and specifically using assessments related to rehabilitation counseling.
8. Understand and demonstrate sound counseling skills and techniques within a theoretical framework in both individual and group counseling.
9. Understand the importance of research in advancing the counseling profession, including how to critique research to inform counseling practice.
10. Effectively work with crisis, trauma, suicide and at-risk clients.

## Program Requirements

### Major Requirements

Code	Title	Credit Hours
<b>Major Requirements</b>		
CES 67492	PRACTICUM I: CLINICAL MENTAL HEALTH COUNSELING	3
CES 67530	COUNSELING THEORIES	3
CES 67531	COUNSELING SKILLS AND TECHNIQUES	3
CES 67580	MULTICULTURAL COUNSELING	3
CES 67628	DIAGNOSIS IN COUNSELING	3
CES 67712	ORIENTATION AND ETHICS: CLINICAL REHABILITATION COUNSELING	3
CES 67723	MEDICAL INFORMATION FOR CLINICAL REHABILITATION COUNSELORS	3
CES 67725	PSYCHOSOCIAL IMPACT OF DISABILITY	3
CES 67732	OCCUPATIONAL ASPECTS OF DISABILITY	3
CES 67776	RESEARCH IN CLINICAL REHABILITATION COUNSELING	3
CES 67820	GROUP WORK:THEORY AND TECHNIQUES	3
CES 68126	INTRODUCTION TO ASSESSMENT IN COUNSELING	3
CES 68128	CLINICAL ASSESSMENT IN COUNSELING	3
CES 68130	PSYCHOPATHOLOGY FOR COUNSELORS	3
CES 68167	CASE CONCEPTUALIZATION AND TREATMENT PLANNING	3
CES 68182	CAREER COUNSELING	3
CES 69192	PRACTICUM II: CLINICAL REHABILITATION COUNSELING	3
CES 69792	INTERNSHIP IN CLINICAL REHABILITATION COUNSELING	6



EPSY 65523	LIFE SPAN DEVELOPMENT	3
Minimum Total Credit Hours:		60

## Counseling - Ed.S.

### College of Education Health and Human Services

School of Lifespan Development and Educational Sciences  
405 White Hall  
Kent Campus  
330-672-2294  
www.kent.edu/ehhs/ldes

## Description

The Educational Specialist degree in Counseling can be highly individualized to meet the needs of students having interests in a variety of school or community settings. The degree is an advanced-level practitioner's degree, and the focus is on practical knowledge and skill.

State and Federal background checks are required for practicum/internship experiences and to apply for Counselor Trainee status. See the Practicum and Internship Coordinator for more information.

### Fully Offered At:

- Kent Campus

## Admission Requirements

- Master's degree from an accredited college or university for unconditional admission
- Minimum 3.000 graduate GPA on a 4.000 point scale (minimum 3.250 graduate GPA is recommended) for unconditional admission
- Official transcript(s)
- Goal statement
- Two letters of recommendation
- Supplemental Interview Form
- Interview
- English language proficiency - all international students must provide proof of English language proficiency (unless they meet specific exceptions) by earning one of the following:
  - Minimum 550 TOEFL PBT score (paper-based version)
  - Minimum 79 TOEFL IBT score (Internet-based version)
  - Minimum 77 MELAB score
  - Minimum 6.5 IELTS score
  - Minimum 58 PTE score
  - Minimum 110 Duolingo English Test score

For more information about graduate admissions, please visit the Graduate Studies admission website. For more information on international admission, visit the Office of Global Education's admission website.

## Program Learning Outcomes

Graduates of this program will be able to:

1. Demonstrate knowledge in professional identity, social and cultural diversity; human growth and development, career development;

helping relationships; group work, assessment; and research and program evaluation.

2. Demonstrate knowledge and skills in the foundations of clinical mental health counseling or school counseling.
3. Demonstrate curricular experiences in the contextual dimensions of community and school.
4. Demonstrate knowledge and skill requirements for clinical mental health counselors or school counselors.

## Program Requirements

### Major Requirements

Code	Title	Credit Hours
<b>Major Requirements</b>		
CES 77663	ORIENTATION AND ETHICS: CLINICAL MENTAL HEALTH COUNSELING	3
or CES 78069	ORIENTATION AND ETHICS: SCHOOL COUNSELING	
School Counseling Internship or Clinical Mental Health Counseling Internship, choose from the following:		6
CES 68192 & CES 68292	INTERNSHIP I: SCHOOL COUNSELING and INTERNSHIP II: SCHOOL COUNSELING	
CES 67792 & CES 67892	INTERNSHIP I: CLINICAL MENTAL HEALTH COUNSELING and INTERNSHIP II: CLINICAL MENTAL HEALTH COUNSELING	
Major Electives, choose from the following:		21
CES 68167	CASE CONCEPTUALIZATION AND TREATMENT PLANNING	
CES 68168	ADVANCED COUNSELING THEORIES	
CES 68284	SUPERVISION OF COUNSELING	
CES 68392	SCHOOL COUNSELING PRACTICUM	
CES 77592	PRACTICUM II: CLINICAL MENTAL HEALTH COUNSELING	
CES 77628	DIAGNOSIS IN COUNSELING	
CES 77662	FOUNDATIONS OF ADDICTIONS COUNSELING	
CES 77664	THEORIES AND PRACTICES IN ADDICTIONS COUNSELING	
CES 77665	TREATMENT PLANNING IN ADDICTIONS COUNSELING	
CES 78011	FOUNDATIONS OF SCHOOL COUNSELING	
CES 78066	COUNSELING ADOLESCENTS	
CES 78067	COUNSELING CHILDREN	
CES 78068	SCHOOL COUNSELING PROGRAM MANAGEMENT AND LEADERSHIP	
CES 78128	CLINICAL ASSESSMENT IN COUNSELING	
CES 78130	PSYCHOPATHOLOGY FOR COUNSELORS	
CES 78529	COUPLES THERAPY: THEORY AND TECHNIQUES	
CES 78533	FAMILY THERAPY: THEORY AND TECHNIQUES	
CES 78538	ADVANCED MULTICULTURAL COUNSELING	
EVAl 65510	STATISTICS I FOR EDUCATIONAL SERVICES	
Other Advisor-Approved Electives		

Minimum Total Credit Hours:

30

### Graduation Requirements

Minimum 30 credit hours are needed beyond a counseling master's degree.

# Counselor Education and Supervision - Ph.D.

## College of Education Health and Human Services

School of Lifespan Development and Educational Sciences  
405 White Hall  
Kent Campus  
330-672-2294  
www.kent.edu/ehhs/ldes

## Description

The Ph.D. in Counselor Education and Supervision provides advanced level preparation for counselors in various public and private human service and mental health settings, as well as preparing individuals for counselor education faculty positions in colleges and universities.

State and Federal background checks are required for field-based experiences. See Program Coordinator for more information.

## Fully Offered At:

- Kent Campus

## Accreditation

Council for the Accreditation of Counseling and Related Educational Programs (CACREP)

## Admission Requirements

- Master's degree from an accredited college or university<sup>1</sup> for unconditional admission
- Minimum 3.500 graduate GPA on a 4.000 point scale for unconditional admission
- Official transcript(s)
- GRE scores with a recommended score of 50th percentile or higher
- Résumé or vita
- Goal Statement
- Supplemental form
- Completion of the Questions Regarding Legal and Ethical Issues form
- Preliminary written exam
- Two letters of recommendation
- Interview
- English language proficiency - all international students must provide proof of English language proficiency (unless they meet specific exceptions) by earning one of the following:
  - Minimum 550 TOEFL PBT score (paper-based version)
  - Minimum 79 TOEFL IBT score (Internet-based version)
  - Minimum 77 MELAB score
  - Minimum 77 IELTS score
  - Minimum 58 PTE score
  - Minimum 110 Duolingo English Test score

For more information about graduate admissions, please visit the Graduate Studies admission website. For more information on

international admission, visit the Office of Global Education's admission website.

- <sup>1</sup> Students are expected to have completed curricular experiences equivalent to CACREP entry-level standards and curricular requirements of a specific CACREP program area before beginning doctoral-level counselor education coursework. Any missing content can be completed before or in some cases (e.g., if minimal content is needed) concurrently with initial doctoral-level counselor education coursework.

## Program Learning Outcomes

Graduates of this program will be able to:

1. Demonstrate an understanding of ethical and legal considerations, and multicultural responsiveness, in counselor education and supervision.
2. Demonstrate a specific focus on knowledge and skill/practice in the following areas: counselor supervision; teaching/pedagogy of counselor education; research and scholarship; advanced counseling theory and techniques; leadership and advocacy; and professional identity as a counselor.
3. Assume the role of instructor with the ability to understand and apply: teaching methods; instructional and curriculum design; and evaluation methods of teaching.
4. Provide high quality counseling supervision which enhances supervisees' ability to conceptualize clients from multiple theoretical perspectives; nurtures supervisees' counseling skills; evaluates the effectiveness of supervisees' counseling; uses multiple theories of supervision; and demonstrates knowledge and skills related to evaluative, gatekeeping, and remediation practices of supervision.
5. Conduct quantitative and qualitative research, along with understanding and applying the recommended practices for professional writing.
6. Demonstrate knowledge of the principles and practices of counseling in a diverse and ever-changing society.
7. Demonstrate a firm grasp of leadership theory, and provide leadership and advocacy to the counseling profession.
8. Demonstrate an ability to critically evaluate current issues in the profession.

## Program Requirements

### Major Requirements

Code	Title	Credit Hours
<b>Major Requirements</b>		
CES 78538	ADVANCED MULTICULTURAL COUNSELING	3
CES 78592	PRACTICUM IN COUPLES AND FAMILY THERAPY	3
	or CES 87392	ADVANCED INDIVIDUAL COUNSELING PRACTICUM
CES 80090	DOCTORAL RESIDENCY SEMINAR IN COUNSELOR EDUCATION AND SUPERVISION	3
CES 80199	DISSERTATION I <sup>1</sup>	30
CES 80200	FUNDAMENTALS OF WRITING AND RESEARCH IN COUNSELOR EDUCATION AND SUPERVISION	3
CES 80300	LEADERSHIP AND ADVOCACY IN COUNSELOR EDUCATION AND SUPERVISION	3
CES 88168	ADVANCED COUNSELING THEORIES	3

CES 88281	RESEARCH SEMINAR IN COUNSELOR EDUCATION AND SUPERVISION	3
CES 88284	SUPERVISION OF COUNSELING	3
CES 88292	INTERNSHIP IN COUNSELOR EDUCATION AND SUPERVISION <sup>2</sup>	6
CES 88294	COLLEGE TEACHING IN COUNSELOR EDUCATION AND SUPERVISION	3
CES 88392	TEACHING PRACTICUM IN COUNSELOR EDUCATION AND SUPERVISION	3
CES 88492	SUPERVISION PRACTICUM IN COUNSELOR EDUCATION AND SUPERVISION	3
EVAL 75510	STATISTICS I FOR EDUCATIONAL SERVICES	3
EVAL 85515	QUANTITATIVE RESEARCH DESIGN AND ANALYSIS	3
EVAL 85516	QUALITATIVE RESEARCH DESIGN	3
EVAL 85517	ADVANCED QUANTITATIVE RESEARCH IN EDUCATIONAL SERVICES	3
or EVAL 85518	ADVANCED QUALITATIVE RESEARCH IN EDUCATIONAL SERVICES	
Elective courses relative to major area of study <sup>3</sup>		6
Minimum Total Credit Hours:		87

- <sup>1</sup> Upon admission to candidacy, each doctoral candidate must register for CES 80199. It is expected that a doctoral candidate will continuously register for Dissertation I for a total of 30 credit hours, and thereafter CES 80299, each semester until all requirements for the degree have been met. Students will be expected to be familiar with data entry and interpreting computer generated analysis.
- <sup>2</sup> Students will take 3 credit hours of CES 88292 per semester for two consecutive semester, for a total of 6 credit hours of internship.
- <sup>3</sup> Elective must be relevant to counselor education and supervision. Students must consult with and obtain approval from their advisors about registering for electives.

### Graduation Requirements

- After admission to the Ph.D. degree program, students plan a program of study with their respective faculty advisory committee. Please refer to the program doctoral handbook and graduate student handbook for more information about requirements for graduation.
- Successful completion of written and oral comprehensive exams is required before students can be registered for dissertation credit hours.

## Deaf Education Multiple Disabilities - Graduate Certificate

**College of Education Health and Human Services**  
 School of Lifespan Development and Educational Sciences  
 405 White Hall  
 Kent Campus  
 330-672-2294  
 www.kent.edu/ehhs/ldes

### Description

The Deaf Education Multiple Disabilities certificate combines coursework from several special education programs. This program is for students

enrolled in a deaf education degree program or who have earned teaching licensure in deaf education.

To be eligible for this certificate program, students must have completed, or be in the process of completing (concurrently) teaching licensure in Deaf Education. Undergraduate students will complete courses at the 40000 level and graduate students will complete courses at the 50000 level.

### Fully Offered At:

- Kent Campus

### Admission Requirements

- Official transcript(s)
- Goal Statement and professional objectives
- Two letters of recommendation
- Current enrollment in a Deaf Education degree program or evidence of a current Deaf Education teaching license.

For more information about graduate admissions, please visit the Graduate Studies admission website. For more information on international admission, visit the Office of Global Education's admission website.

### Certificate Requirements

Code	Title	Credit Hours
<b>Certificate Requirements</b>		
SPED 53050	CHARACTERISTICS OF STUDENTS WITH MILD/MODERATE INTERVENTION NEEDS	3
SPED 53051	CHARACTERISTICS OF STUDENTS WITH MODERATE/INTENSIVE INTERVENTION NEEDS	3
SPED 53070	PLANNING AND PROGRAMMING FOR TRANSITIONS	3
SPED 53080	ASSISTIVE TECHNOLOGY FOR STUDENTS WITH DISABILITIES	3
SPED 63996	INDIVIDUAL INVESTIGATION IN SPECIAL EDUCATION <sup>1</sup>	1-3
Minimum Total Credit Hours:		13-15

- <sup>1</sup> Credit hours required to be determined with faculty advisor in consideration of previous professional experiences.

### Graduation Requirements

- Students declared in a doctoral degree should enroll in the doctoral level version of these courses, if offered.
- Click here for gainful employment disclosure on this certificate.

## Deaf Education Multiple Disabilities - Undergraduate Certificate

**College of Education Health and Human Services**  
 School of Lifespan Development and Educational Sciences  
 405 White Hall  
 Kent Campus  
 330-672-2294

[www.kent.edu/ehhs/ldes](http://www.kent.edu/ehhs/ldes)

## Description

The Deaf Education Multiple Disabilities undergraduate certificate combines coursework from several special education programs. This program is for students enrolled in a deaf education degree program or who have earned teaching licensure in deaf education.

### Fully Offered At:

- Kent Campus

## Admission Requirements

The university affirmatively strives to provide educational opportunities and access to students with varied backgrounds, those with special talents and adult students who graduated from high school three or more years ago.

**Freshman Students on the Kent Campus:** The freshman admission policy on the Kent Campus is selective. Admission decisions are based upon the following: cumulative grade point average, ACT and/or SAT scores, strength of high school college preparatory curriculum and grade trends. The Admissions Office at the Kent Campus may defer the admission of students who do not meet admissions criteria but who demonstrate areas of promise for successful college study. Deferred applicants may begin their college coursework at one of seven regional campuses of Kent State University. For more information on admissions, including additional requirements for some academic programs, visit the admissions website for new freshmen.

**Freshman Students on the Regional Campuses:** Kent State campuses at Ashtabula, East Liverpool, Geauga, Salem, Stark, Trumbull and Tuscarawas, as well as the Regional Academic Center in Twinsburg, have open enrollment admission for students who hold a high school diploma, GED or equivalent.

**English Language Proficiency Requirements for International Students:** All international students must provide proof of English language proficiency (unless they meet specific exceptions) by earning a minimum 525 TOEFL score (71 on the Internet-based version), minimum 75 MELAB score, minimum 6.0 IELTS score or minimum 48 PTE score, or by completing the ESL level 112 Intensive Program. For more information on international admission, visit the Office of Global Education's admission website.

**Transfer, Transitioning and Former Students:** For more information about admission criteria for transfer, transitioning and former students, please visit the admissions website.

## Program Requirements

### Certificate Requirements

Code	Title	Credit Hours
<b>Certificate Requirements</b>		
SPED 43050	CHARACTERISTICS OF STUDENTS WITH MILD/MODERATE INTERVENTION NEEDS	3
SPED 43051	CHARACTERISTICS OF STUDENTS WITH MODERATE/INTENSIVE INTERVENTION NEEDS	3
SPED 43070	PLANNING AND PROGRAMMING FOR TRANSITIONS	3

SPED 43080	ASSISTIVE TECHNOLOGY FOR STUDENTS WITH DISABILITIES	3
SPED 43996	INDIVIDUAL INVESTIGATION IN SPECIAL EDUCATION <sup>1</sup>	1-3

Minimum Total Credit Hours: 13

<sup>1</sup> Credit hours required to be determined with faculty advisor in consideration of previous professional experience.

### Graduation Requirements

Minimum Certificate GPA	Minimum Overall GPA
2.000	2.000

## Early Childhood Deaf Education - Graduate Certificate

### College of Education Health and Human Services

School of Lifespan Development and Educational Sciences  
405 White Hall  
Kent Campus  
330-672-2294  
[www.kent.edu/ehhs/ldes](http://www.kent.edu/ehhs/ldes)

## Description

The Early Childhood Deaf Education graduate certificate combines various special education coursework and is for those holding deaf education teaching licensure, students with bachelor's degrees in speech pathology or audiology or students in a graduate deaf education degree program.

### Fully Offered At:

- Kent Campus

## Admission Requirements

- Bachelor degree in speech or audiology, or current enrollment in a graduate Deaf Education degree program, or evidence of a current Deaf Education teaching license
- Official transcript(s)
- Goal statement and professional objectives
- Two letters of recommendation

For more information about graduate admissions, please visit the Graduate Studies admission website. For more information on international admission, visit the Office of Global Education's admission website.

## Program Requirements

### Certificate Requirements

Code	Title	Credit Hours
<b>Certificate Requirements</b>		
SPED 53316	EARLY CHILDHOOD DEAF EDUCATION: FAMILY AND CHILD SERVICE PROVISION	3
SPED 63392	PRACTICUM IN DEAF EDUCATION <sup>1</sup>	1-3

SPED 63955	TYPICAL AND ATYPICAL DEVELOPMENT IN YOUNG CHILDREN	3
SPED 63996	INDIVIDUAL INVESTIGATION IN SPECIAL EDUCATION <sup>1</sup>	1-3
SPSY 67973	CONSULTATION IN THE HELPING PROFESSIONS	3

Minimum Total Credit Hours: 11-15

<sup>1</sup> Credit hours required to be determined with faculty advisor in consideration of previous professional experiences.

## Graduation Requirements

Minimum Certificate GPA	Minimum Overall GPA
3.000	-

- Students declared in a doctoral degree should enroll in the doctoral level version of these courses, if offered.

## Early Intervention - Graduate Certificate

### College of Education Health and Human Services

School of Lifespan Development and Educational Sciences

405 White Hall

Kent Campus

330-672-2294

[www.kent.edu/ehhs/ldes](http://www.kent.edu/ehhs/ldes)

## Description

The Early Intervention graduate certificate is primarily intended for individuals interested in working with young children ages 0-3 who have or are at risk for developmental delays and disabilities and their families across a variety of settings. The certificate provides skills and competencies specific to contemporary and recommended practices in early intervention that are empirically based, contemporary philosophical orientations about young children and families, supporting families and caregivers to enhance children's growth and development, federal early intervention legislation, teaming with professionals and family members, ethical conduct in all professional activities, advocacy and inclusive practices.

### Fully Offered At:

- Kent Campus

## Admission Requirements

- Bachelor's degree from an accredited college or university
- Official transcript(s)
- Goal statement
- Two letters of recommendation
- Questions in Anticipation of Licensure form

## Program Requirements

### Certificate Requirements

Code	Title	Credit Hours
<b>Certificate Requirements</b>		
SPED 62951	EARLY INTERVENTION IN NATURAL ENVIRONMENTS	3
SPED 63892	EARLY INTERVENTION INTERNSHIP	3
SPED 63952	FAMILY AND PROFESSIONAL COLLABORATION IN EARLY CHILDHOOD	3
SPED 63954	PRACTICAL APPLICATIONS: TEAMING	3
SPED 63955	TYPICAL AND ATYPICAL DEVELOPMENT IN YOUNG CHILDREN	3
SPED 63956	FOUNDATIONS IN EARLY CHILDHOOD SERVICES	3
SPED 63957	ASSESSMENT AND EVALUATION OF EARLY CHILDHOOD SERVICES	3
SPED 64951	DEVELOPING AN INDIVIDUALIZED FAMILY SERVICE PLAN AND INDIVIDUALIZED EDUCATION PROGRAM	3

Minimum Total Credit Hours: 24

## Graduation Requirements

Minimum Certificate GPA	Minimum Overall GPA
3.000	

## Early Intervention - Minor

### College of Education Health and Human Services

School of Lifespan Development and Educational Sciences

405 White Hall

Kent Campus

330-672-2294

[www.kent.edu/ehhs/ldes](http://www.kent.edu/ehhs/ldes)

## Description

The Early Intervention minor primarily is intended for individuals interested in working with young children—from birth to age three—who have or are at risk for developmental delays and disabilities across a variety of settings.

The minor provides students with the skills and knowledge specific to contemporary and recommended practices in early intervention, typical and atypical development, teaming, family professional collaboration, assessment, legislation, ethical professional conduct, advocacy and inclusive practices.

### Fully Offered At:

- Kent Campus

## Admission Requirements

Admission to a minor is open to students declared in a bachelor's degree, the A.A.B. or A.A.S. degree or the A.T.S. degree (not Individualized Program major). Students declared only in the A.A. or A.S. degree or the A.T.S. degree in Individualized Program may not declare a minor. Students may not pursue a minor and a major in the same discipline.



To declare this minor, students must be at least a sophomore status and have attempted a minimum 12 credit hours at Kent State and earned a minimum 2.750 overall Kent State GPA. Students who have not attempted 12 credit hours at Kent State will be evaluated for admission based on their high school GPA for new students or transfer GPA for transfer students. Transfer students who have not attempted 12 credit hours of college-level coursework at Kent State and/or other institutions will be evaluated based on both their high school GPA and college GPA.

### Program Learning Outcomes

Graduates of this program will be able to:

1. Describe and analyze contemporary philosophical and theoretical orientations about young children and families.
2. Demonstrate empirically-based and ethical practices of Early Intervention in natural environments.
3. Collaborate with families, caregivers, and professionals to enhance children's growth and development.
4. Identify state and federal legislation related to Early Intervention.

## Minor Requirements

Code	Title	Credit Hours
<b>Minor Requirements</b>		
SPED 42951	EARLY INTERVENTION IN NATURAL ENVIRONMENTS	3
SPED 43953	FAMILY PROFESSIONAL COLLABORATION IN EARLY CHILDHOOD	3
SPED 43954	PRACTICAL APPLICATION: TEAMING	3
SPED 43955	TYPICAL AND ATYPICAL DEVELOPMENT IN YOUNG CHILDREN	3
SPED 43958	FOUNDATIONS IN EARLY CHILDHOOD SERVICES	3
SPED 43964	ASSESSMENT AND EVALUATION IN EARLY INTERVENTION AND EARLY CHILDHOOD SPECIAL EDUCATION	3
SPED 44951	CREATING LEGALLY DEFENSIBLE INDIVIDUAL FAMILY SERVICE PLANS AND INDIVIDUALIZED EDUCATION PROGRAMS (WIC)	3
Minimum Total Credit Hours:		21

## Graduation Requirements

Minimum Minor GPA	Minimum Overall GPA
2.000	2.000

- Minimum 6 credit hours in the minor must be upper-division coursework (30000 and 40000 level).
- Minimum 6 credit hours in the minor must be outside of the course requirements for any major or other minor the student is pursuing.
- Minimum 50 percent of the total credit hours for the minor must be taken at Kent State (in residence).

## Educational Psychology - M.A.

### College of Education Health and Human Services

School of Lifespan Development and Educational Sciences  
405 White Hall  
Kent Campus  
330-672-2294

[www.kent.edu/ehhs/lides](http://www.kent.edu/ehhs/lides)

## Description

The Master of Arts degree in Educational Psychology provides advanced study for students interested in the application of psychological principles to learning and instruction. It encompasses a variety of different disciplines, including cognitive psychology, human development and learning theory. Students are exposed to the latest research findings regarding how people learn most effectively and efficiently. They also apply these principles to the design of instruction, and study how to most accurately assess different types of learning.

The M.A. degree program is appropriate for classroom teachers, professionals in a variety of settings and students wishing to pursue doctoral-level training in educational psychology.

### Fully Offered At:

- Kent Campus

## Admission Requirements

- Bachelor's degree from an accredited college or university for unconditional admission
- Minimum 3.000 undergraduate GPA on a 4.000 point scale for unconditional admission
- Official transcript(s)
- Goal statement
- Two letters of recommendation
- English language proficiency - all international students must provide proof of English language proficiency (unless they meet specific exceptions) by earning one of the following:
  - Minimum 550 TOEFL PBT score (paper-based version)
  - Minimum 79 TOEFL IBT score (Internet-based version)
  - Minimum 77 MELAB score
  - Minimum 6.5 IELTS score
  - Minimum 58 PTE score
  - Minimum 110 Duolingo English Test score

For more information about graduate admissions, please visit the Graduate Studies admission website. For more information on international admission, visit the Office of Global Education's admission website.

## Program Learning Outcomes

Graduates of this program will be able to:

1. Describe the various schools of learning theory that have informed educators.
2. Conduct literature reviews and design empirical research to examine issues associated with how individuals learn.
3. Apply principles of human development and learning when developing and selecting educational approaches.
4. Identify best practices for maximizing student learning.
5. Systematically design effective instructional programs to meet the academic needs of learners.

6. Demonstrate knowledge of theories and principles of learner motivation.
7. Describe social learning principles and their application to instructional practice.
8. Evaluate teaching and learning practices with a variety of types of assessments.
9. Competently evaluate educational programs and approaches.

## Program Requirements

### Major Requirements

Code	Title	Credit Hours
<b>Major Requirements</b>		
EPSY 65520	CHILD AND ADOLESCENT DEVELOPMENT	3
EPSY 65524	LEARNING THEORIES	3
EPSY 65529	EDUCATIONAL MOTIVATION	3
EPSY 68905	EDUCATIONAL PSYCHOLOGY	3
EVAL 65510	STATISTICS I FOR EDUCATIONAL SERVICES	3
EVAL 65511	RESEARCH IN EDUCATIONAL SERVICES	3
<b>Specialty Area and Thesis Research Requirements</b>		
EPSY 60199	THESIS I	6
Specialty Area Electives		15
Minimum Total Credit Hours:		39

### Graduation Requirements

- The M.A. degree requires a minimum of 39 credit hours, including 6 hours of thesis credit.
- No more than one-half of a graduate student's coursework may be taken in 50000 level courses.
- Students have six years from the term of first enrollment to complete the program.

## Educational Psychology - M.Ed.

### College of Education Health and Human Services

School of Lifespan Development and Educational Sciences  
405 White Hall  
Kent Campus  
330-672-2294  
[www.kent.edu/ehhs/ldes](http://www.kent.edu/ehhs/ldes)

### Description

The Master of Education degree in Educational Psychology provides advanced study for students interested in the application of psychological principles to learning and instruction. It encompasses a variety of different disciplines, including cognitive psychology, human development and learning theory. Students are exposed to the latest research findings regarding how people learn most effectively and efficiently. They also apply these principles to the design of instruction, and study how to most accurately assess different types of learning.

The M.Ed. degree program is appropriate for classroom teachers, professionals in a variety of settings and students wishing to pursue graduate-level training in educational psychology.

The Educational Psychology major includes the following optional concentration.

- Students in the **Gifted Education** concentration will learn about gifted learners, their unique needs, and the application of educational psychological principles to the education of gifted learners.

### Fully Offered At:

- Online

## Admission Requirements

- Bachelor's degree from an accredited college or university for unconditional admission
- Minimum 3.000 undergraduate GPA on a 4.000 point scale for unconditional admission
- Official transcript(s)
- Goal statement
- Two letters of recommendation
- English language proficiency - all international students must provide proof of English language proficiency (unless they meet specific exceptions) by earning one of the following:
  - Minimum 550 TOEFL PBT score (paper-based version)
  - Minimum 79 TOEFL IBT score (Internet-based version)
  - Minimum 77 MELAB score
  - Minimum 6.5 IELTS score
  - Minimum 58 PTE score
  - Minimum 110 Duolingo English Test score

Additional admission requirements for the Gifted Education optional concentration:

- A valid standard teaching certificate or provisional or professional teaching license from the State of Ohio

For more information about graduate admissions, please visit the Graduate Studies admission website. For more information on international admission, visit the Office of Global Education's admission website.

## Program Learning Outcomes

Graduates of this program will be able to:

1. Describe the various schools of learning theory that have informed educators.
2. Conduct literature reviews and design empirical research to examine issues associated with how individuals learn.
3. Apply principles of human development and learning when developing and selecting educational approaches.
4. Identify best practices for maximizing student learning.
5. Demonstrate knowledge of theories and principles of learner motivation.

## Program Requirements

### Major Requirements

Code	Title	Credit Hours
<b>Major Requirements</b>		
EPSY 65520	CHILD AND ADOLESCENT DEVELOPMENT	3
EPSY 65524	LEARNING THEORIES	3
EPSY 65529	EDUCATIONAL MOTIVATION	3
EPSY 68901	PSYCHOLOGICAL FOUNDATIONS OF EDUCATION	3
EPSY 68905	EDUCATIONAL PSYCHOLOGY	3

### Additional Requirements or Concentrations

Choose from the following:	15-18
Additional Requirements for Students Not Declaring a Concentration	
Gifted Education Concentration	
Minimum Total Credit Hours:	30-33

### Additional Requirements for Students Not Declaring a Concentration

Code	Title	Credit Hours
<b>Major Requirements</b>		
Specialty Area Electives, choose from the following:		15
EVAL 55610	CLASSROOM ASSESSMENT	
EVAL 65510	STATISTICS I FOR EDUCATIONAL SERVICES	
EVAL 65511	RESEARCH IN EDUCATIONAL SERVICES	
EVAL 65515	QUANTITATIVE RESEARCH DESIGN AND ANALYSIS	
ETEC 57403	INSTRUCTIONAL DESIGN	
ETEC 57427	TECHNOLOGY AND LEARNING	
or other advisor approved electives		
Minimum Total Credit Hours:		15

### Gifted Education Concentration Requirements

Code	Title	Credit Hours
<b>Concentration Requirements</b>		
EPSY 63531	CURRICULUM DEVELOPMENT FOR GIFTED LEARNERS	3
EPSY 63532	GIFTED PROGRAM DESIGN, ASSESSMENT AND ADMINISTRATION	3
EPSY 63535	SOCIAL AND EMOTIONAL ASPECTS OF THE GIFTED AND SPECIAL SUBPOPULATIONS	3
EPSY 63540	NATURE AND NEEDS OF GIFTED	3
EPSY 63545	INSTRUCTIONAL PROCESSES FOR GIFTED CHILDREN	3
EPSY 64892	ADVANCED PRACTICUM: GIFTED AND TALENTED EDUCATION	3
Minimum Total Credit Hours:		18

### Graduation Requirements

- The M.Ed. degree requires a minimum of 30 credit hours of graduate coursework.
- No more than one-half of a graduate student's coursework may be taken in 50000 level courses.

- Students have six years from the term of first enrollment to complete the program.

## Educational Psychology - Ph.D.

### College of Education Health and Human Services

School of Lifespan Development and Educational Sciences

405 White Hall

Kent Campus

330-672-2294

[www.kent.edu/ehhs/ldes](http://www.kent.edu/ehhs/ldes)

### Description

The Ph.D. degree in Educational Psychology provides an advanced and interdisciplinary study in the principles of human cognition, learning and development. The program provides rigorous training in the theoretical foundations of cognition, learning, and development, as well as research design, instrumentation, quantitative analysis and research application.

Graduates are qualified to become faculty at the university level and are also prepared for careers in a variety of industry and government settings conducting research and guiding the application of evidence-based practices.

### Fully Offered At:

- Kent Campus

### Admission Requirements

- Bachelor's degree or higher from an accredited college or university for unconditional admission
- Minimum 3.000 undergraduate/3.500 graduate GPA on a 4.000 point scale for unconditional admission
- Minimum 18 credit hours of courses in psychology, education or related fields (including a course in statistics)
- Official transcript(s)
- Research experience and broad background in educational psychology
- GRE scores with recommended 50th percentile or higher
- Résumé
- Goal statement
- Three letters of recommendation
- Interview
- English language proficiency - all international students must provide proof of English language proficiency (unless they meet specific exceptions) by earning one of the following:
  - Minimum 550 TOEFL PBT score (paper-based version)
  - Minimum 79 TOEFL IBT score (Internet-based version)
  - Minimum 77 MELAB score
  - Minimum 6.5 IELTS score
  - Minimum 58 PTE score
  - Minimum 110 Duolingo English Test score

For more information about graduate admissions, please visit the Graduate Studies admission website. For more information on

international admission, visit the Office of Global Education's admission website.

## Program Learning Outcomes

Graduates of this program will be able to:

1. Inform and enhance practice based on deep knowledge of research, theories, and principles of cognition, learning and development.
2. Synthesize and critically evaluate scholarly articles and texts.
3. Apply principles of research design to create rigorous experiments and studies.
4. Analyze and interpret quantitative data using appropriate cutting edge methodologies and tools.
5. Develop scientific writing skills in order to effectively communicate research findings to the scientific community and practitioners.
6. Design and conduct empirical research to investigate the cognitive and developmental basis for effective teaching and learning practices.
7. Disseminate original, empirical research through scholarly presentations, conferences, and publications.

## Program Requirements

### Major Requirements

Code	Title	Credit Hours
<b>Major Requirements</b>		
EPSY 80199	DISSERTATION I <sup>1</sup>	30
Quantitative Reserach and Statistics Electives, choose from the following:		12
EVAL 75510	STATISTICS I FOR EDUCATIONAL SERVICES	
EVAL 78713	MULTIVARIATE ANALYSIS IN EDUCATIONAL RESEARCH	
EVAL 78716	STATISTICS II: ANOVA AND NONPARAMETRIC TESTS	
EVAL 78728	MULTIPLE REGRESSION	
EVAL 78735	STRUCTURAL EQUATION MODELING	
EVAL 78745	HIERARCHICAL LINEAR MODELING	
EVAL 85515	QUANTITATIVE RESEARCH DESIGN AND ANALYSIS	
EVAL 85517	ADVANCED QUANTITATIVE RESEARCH IN EDUCATIONAL SERVICES	
Educational and Psychological Science Foundations Electives, choose from the following: (must include at least two EPSY courses)		12
EPSY 75520	CHILD AND ADOLESCENT DEVELOPMENT	
EPSY 75523	LIFE SPAN DEVELOPMENT	
EPSY 75524	LEARNING THEORIES	
EPSY 75529	EDUCATIONAL MOTIVATION	
EPSY 78905	EDUCATIONAL PSYCHOLOGY	
EPSY 87450	PSYCHOLOGICAL PRINCIPLES OF EDUCATION	
EPSY 89091	SEMINAR IN LEARNING AND DEVELOPMENT	
EPSY 89095	SPECIAL TOPICS IN LEARNING AND DEVELOPMENT	
PSYC 70413	COGNITIVE NEUROPSYCHOLOGY	
PSYC 70453	INTRODUCTION TO COGNITIVE PSYCHOLOGY	
PSYC 70604	COGNITIVE DEVELOPMENT	
PSYC 70895	ADVANCED TOPICS-EXPERIMENTAL PSYCHOLOGY	
PSYC 80491	SEMINAR IN COGNITIVE PSYCHOLOGY	

Additional Program Electives, choose from the following: <sup>2</sup>		21-60
EPSY 89096	INDIVIDUAL INVESTIGATION IN LEARNING AND DEVELOPMENT	
EPSY 89098	RESEARCH IN LEARNING AND DEVELOPMENT	
Other courses from categories above, or with advisor approval		
<b>Minimum Total Credit Hours for Post-Baccalaureate Students</b>		<b>108</b>
<b>Minimum Total Credit Hours for Post-Master's Students</b>		<b>75</b>

- <sup>1</sup> Upon admission to candidacy, each doctoral candidate must register for EPSY 80199. It is expected that a doctoral candidate will continuously register for Dissertation I for a total of 30 credit hours, and thereafter EPSY 80299 Dissertation II, each semester until all requirements for the degree have been met.
- <sup>2</sup> Post-baccalaureate students may use additional program electives to fulfill requirements for the M.A./M.Ed. Educational Psychology degree. The M.A. requires a minimum 39 credits and the M.Ed. requires a minimum 33 credits for completion. These courses may be taken at either the doctoral or master's level.

### Candidacy

Students who have been admitted into the doctoral program will be considered for Ph.D. candidacy after they have met all requirements for the master's degree. In addition, the department reserves the right to separate from the program a student who, in the opinion of a duly constituted departmental committee, is not likely to succeed professionally despite earning acceptable grades.

### Graduation Requirements

- The doctoral program requires a minimum of four years of full-time attendance for holders of the baccalaureate degree.
- All doctoral student in educational psychology complete a program of basic core courses, select additional courses and seminars, with the aid of a faculty advisor, and complete a master's thesis and a doctoral dissertation.
- A limited number of graduate courses outside the department may be credited toward graduation.
- Doctoral program aspirants who do not hold a master's degree upon starting the program must complete all the requirements for the M.A./M.Ed. Educational Psychology degree.

## Gerontology - Graduate Certificate

### College of Education Health and Human Services

School of Lifespan Development and Educational Sciences

405 White Hall

Kent Campus

330-672-2294

[www.kent.edu/ehhs/lides](http://www.kent.edu/ehhs/lides)

### Description

The Gerontology graduate certificate is offered jointly with the University of Akron to offer students specialized training within the interdisciplinary field of gerontology that goes beyond what is rooted in their selected professional discipline or academic major. Coursework completed at either institution may be applied to the certificate. The certificate program

is flexible; students can tailor the courses taken toward completion of the certificate to meet their unique professional interests.

The Gerontology certificate is based on the recommended standards of excellence established by the Association for Gerontology in Higher Education. The faculty at both Kent State University and the University of Akron are nationally and internationally recognized scholars in gerontology. Many are fellows of the Gerontological Society of America. Faculty are available to assist students with course selection, research projects and other matters of interest in the field of gerontology.

### Fully Offered At:

- Kent Campus

## Admission Requirements

- Official transcript(s)
- Master's degree from an accredited institution<sup>1</sup>
- Two letters of recommendation (students currently enrolled in graduate degree programs at either Kent State University or the University of Akron may use the letters of recommendation submitted for admission into their degree program)
- Goal statement and professional objectives

For more information about graduate admission, please visit the graduate admission website.

<sup>1</sup> Student must be matriculated in a graduate degree program or hold a graduate degree from an accredited institution. Students may be admitted with non-degree status, but they must complete a graduate degree prior to being awarded the certificate.

## Program Requirements

### Certificate Requirements

Code	Title	Credit Hours
<b>Certificate Requirements</b>		
BSCI 50020	BIOLOGY OF AGING	3
GERO 50656	PSYCHOLOGY OF AGING <sup>1</sup>	3
or SOC 52010	DEATH AND DYING	
GERO 61191	INTERDISCIPLINARY SEMINAR IN GERONTOLOGY	3
	Gerontology Research Methods	3
	Gerontology Research or Practicum	3
	Gerontology Elective	3
Minimum Total Credit Hours:		18

<sup>1</sup> Meets the psychosocial requirement of the certificate.

### Graduation Requirements

Minimum Certificate GPA	Minimum Overall GPA
3.000	

- Students declared in a doctoral degree should enroll in the doctoral level version of these courses, if offered.
- A thesis or dissertation may be applied toward certificate requirements if it involves an aging-related topic. Students can also

apply a practicum/internship course within their degree program as a capstone experience in the certificate program.

- Minimum 12 credit hours must be at the 600 level (University of Akron), 60000 level (Kent State University) or above designation.
- Maximum 3 credit hours is transferable from outside the university.

## Gerontology - Minor

**College of Education Health and Human Services**  
 School of Lifespan Development and Educational Sciences  
 405 White Hall  
 Kent Campus  
 330-672-2294  
[www.kent.edu/ehhs/ldes](http://www.kent.edu/ehhs/ldes)

### Description

The Gerontology minor provides students with knowledge of the aging process and prepares students for professional positions in the diverse field of aging. Current predictions indicate that a 'baby boomer' will turn 60 every seven seconds for the next 18 years. By 2050, it is estimated that one in five people will be over the age of 65, leading to an increase in demand for individuals with an understanding of the aging process.

The minor benefits students with a major or an interest in psychology, sociology, business, English, nursing, education, interior design, political science, speech pathology, audiology and recreation, parks and tourism management.

### Fully Offered At:

- Kent Campus

### Admission Requirements

Admission to a minor is open to students declared in a bachelor's degree, the A.A.B. or A.A.S. degree or the A.T.S. degree (not Individualized Program major). Students declared only in the A.A. or A.S. degree or the A.T.S. degree in Individualized Program may not declare a minor. Students may not pursue a minor and a major in the same discipline.

To declare this minor, students must have attempted a minimum 12 credit hours at Kent State and earned a minimum 2.000 overall Kent State GPA. Students who have not attempted 12 credit hours at Kent State will be evaluated for admission based on their high school GPA for new students or transfer GPA for transfer students. Transfer students who have not attempted 12 credit hours of college-level coursework at Kent State and/or other institutions will be evaluated based on both their high school GPA and college GPA.

### Minor Requirements

Code	Title	Credit Hours
<b>Minor Requirements</b>		
GERO 14029	INTRODUCTION TO GERONTOLOGY (DIVD) (KSS)	3
GERO 40656	PSYCHOLOGY OF AGING	3
SOC 42879	AGING IN SOCIETY (DIVD)	3
Minor Electives, choose from the following:		12
ARCH 45640	DEVELOPING ENVIRONMENTS FOR OLDER ADULTS	



BSCI 40020	BIOLOGY OF AGING
GERO 44031	SOCIAL POLICY AND COMMUNITY RESOURCES FOR OLDER ADULTS
HDFS 44035	ASSESSMENT AND STRATEGIES IN CASE MANAGEMENT
HDFS 44036	GENERAL CASE MANAGEMENT METHODS
HED 46070	HEALTH RELATED ASPECTS OF AGING
LTCA 44032	LONG-TERM CARE ADMINISTRATION I
NUTR 23511	SCIENCE OF HUMAN NUTRITION (KBS)
	or NUTR 33512 INTERMEDIATE NUTRITION SCIENCE
NUTR 43521	FOOD CHOICES FOR PRESCRIBED DIETARY MODIFICATION
PHIL 40005	HEALTH CARE ETHICS
RPTM 36010	RECREATION, LEISURE AND AGING
SOC 42010	DEATH AND DYING
SOC 42563	SOCIOLOGY OF HEALTH AND HEALTH CARE
SPA 44130	COMMUNICATION DISORDERS OF THE AGING

Minimum Total Credit Hours: 21

## Graduation Requirements

Minimum Minor GPA	Minimum Overall GPA
2.250	2.000

- Minimum 6 credit hours in the minor must be upper-division coursework (30000 and 40000 level).
- Minimum 6 credit hours in the minor must be outside of the course requirements for any major or other minor the student is pursuing.
- Minimum 50 percent of the total credit hours for the minor must be taken at Kent State (in residence).

## Program Notes

- Students are required to meet with the human development and family studies program coordinator to discuss course selection and procedures for completing the minor.
- Some courses require prerequisites, please see course descriptions for details.

# Gifted Education Endorsement Preparation - Non-Degree

## College of Education Health and Human Services

School of Lifespan Development and Educational Services

405 White Hall

Kent Campus

330-672-2294

[www.kent.edu/ehhs/ldes](http://www.kent.edu/ehhs/ldes)

## Description

The Gifted Education Endorsement Preparation non-degree program will prepare students to obtain the Gifted Intervention Specialist (K-12) endorsement. Completion of the coursework is a prerequisite to being recommended by Kent State University for licensure, and licenses are granted by the Ohio Department of Education. Students in this program will learn about gifted learners, their unique needs, and the application of educational psychological principles to the education of gifted learners.

The non-degree program is not a master's degree program. Students interested in obtaining a teaching license and a master's degree from Kent State University must also be fully admitted into the master's degree program and complete the prescribed coursework on the master's degree prospectus, in addition to courses that are prescribed here for licensure.

## Fully Offered At:

- Kent Campus

## Admission Requirements

- Bachelor degree from an accredited institution
- Minimum 3.00 GPA on a 4.000 scale
- Official transcript(s)
- Valid standard teaching certificate, or provisional or professional teaching license from the State of Ohio

## Program Requirements

### Endorsement Requirements

Code	Title	Credit Hours
<b>Endorsement Requirements</b>		
EPSY 63531	CURRICULUM DEVELOPMENT FOR GIFTED LEARNERS	3
EPSY 63532	GIFTED PROGRAM DESIGN, ASSESSMENT AND ADMINISTRATION	3
EPSY 63535	SOCIAL AND EMOTIONAL ASPECTS OF THE GIFTED AND SPECIAL SUBPOPULATIONS	3
EPSY 63540	NATURE AND NEEDS OF GIFTED	3
EPSY 63545	INSTRUCTIONAL PROCESSES FOR GIFTED CHILDREN	3
EPSY 64892	ADVANCED PRACTICUM: GIFTED AND TALENTED EDUCATION	3

Minimum Total Credit Hours: 18

## Progression Requirements

- Must maintain a minimum 3.000 overall GPA

## Graduation Requirements

- Minimum 3.000 overall GPA

## Licensure Information

Prior to program completion, the candidate must demonstrate proficiencies in the following areas (including but not limited to): Data literacy and analysis, use of research and assessment data, leadership and collaboration, utilizing and supporting appropriate technology for the discipline, and application of professional dispositions, laws and policies, codes of ethics and professional standards appropriate to their field of specialization.

Candidates seeking Ohio teaching licensure are required to pass specific requirements in order to apply for licensure from the Ohio Department of Education (ODE). Students should consult the Educational Psychology program area for specific program requirements and refer to the Ohio Department of Education - Educator Preparation website for more information on assessments specific to licensure type.

# Human Development and Family Studies - B.S.

## College of Education Health and Human Services

School of Lifespan Development and Educational Sciences  
405 White Hall  
Kent Campus  
330-672-2294  
www.kent.edu/ehhs/ldes

## Description

The Bachelor of Science degree in Human Development and Family Studies (HDFS) offers an interdisciplinary approach to individual and family development across the lifespan. Students in HDFS receive the knowledge and skills needed to help individuals and families across the lifespan to flourish in a global society. The degree prepares students for a wide range of careers in diverse settings including family and community-based social services, prevention, nonprofit administration, and family and community intervention. Core coursework focuses on development across the lifespan and understanding family relationships, the environments in which individuals live and learn, and the unique strengths and needs of diverse individuals and families. After completing the degree, you will not only make a living, you will make a difference in the world around you.

The Human Development and Family Studies major comprises the following concentrations:

- The **Case Management for Individuals and Families** concentration provides training in needs assessment and the utilization of available public and private resources. Case managers provide assistance to individuals and families by coordinating services and access to resources. Students in this concentration will learn the skills necessary to understand clients' needs and goals, and develop a plan to achieve these goals with the resources and services available to them. Graduates are eligible for securing positions in a wide array of social service agencies.
- The **Child and Youth Development** concentration prepares students for working with children and adolescents in non-school settings such as residential treatment, group care, community youth services, foster care and after-school programs. Graduates are able to design and deliver developmentally appropriate programs, preparing children and youth for productive adulthood by emphasizing skills and competency development.
- The **Family Life Education** concentration prepares graduates to develop and implement educational programming for parents, couples, and families in a variety of education and human service settings. Family life educators teach individuals and families effective communication skills, positive self-esteem, parenting skills and healthy interpersonal skills. Graduates are eligible to apply to be certified family life educators (CFLE), a credential granted by the National Council on Family Relations.
- The **Gerontology** concentration prepares graduates for professional positions in the diverse field of aging, including health and wellness, community-based social services, retirement communities, adult-care centers and nursing homes. The curriculum provides students with a solid understanding of typical age-related changes and how these changes affect a person physiologically, psychologically and socially. According to the U.S. Census, 20 percent of the total population will

be 65 or older by 2030. Because of the increasing number of older persons and the fact that people are generally living longer, there is a growing need for people to work in the field of aging.

- The **Human Services** concentration is a completer program for students who hold an associate degree in human services. This program prepares graduates for entry-level positions in a variety of human service agencies, including child and family welfare agencies, mental health centers, developmental disability facilities and substance abuse treatment centers.

## Fully Offered At:

- Kent Campus
- Salem Campus (Human Services, Family Life Education and Case Management for Individuals and Families concentrations only)
- Stark Campus (Family Life Education and Gerontology concentrations only)

## Admission Requirements

The university affirmatively strives to provide educational opportunities and access to students with varied backgrounds, those with special talents and adult students who graduated from high school three or more years ago.

**Freshman Students on the Kent Campus:** The freshman admission policy on the Kent Campus is selective. Admission decisions are based upon the following: cumulative grade point average, ACT and/or SAT scores, strength of high school college preparatory curriculum and grade trends. The Admissions Office at the Kent Campus may defer the admission of students who do not meet admissions criteria but who demonstrate areas of promise for successful college study. Deferred applicants may begin their college coursework at one of seven regional campuses of Kent State University. For more information on admissions, including additional requirements for some academic programs, visit the admissions website for new freshmen.

**Freshman Students on the Regional Campuses:** Kent State campuses at Ashtabula, East Liverpool, Geauga, Salem, Stark, Trumbull and Tuscarawas, as well as the Regional Academic Center in Twinsburg, have open enrollment admission for students who hold a high school diploma, GED or equivalent.

**English Language Proficiency Requirements for International Students:** All international students must provide proof of English language proficiency (unless they meet specific exceptions) by earning a minimum 525 TOEFL score (71 on the Internet-based version), minimum 75 MELAB score, minimum 6.0 IELTS score or minimum 48 PTE score, or by completing the ESL level 112 Intensive Program. For more information on international admission, visit the Office of Global Education's admission website.

**Transfer, Transitioning and Former Students:** For more information about admission criteria for transfer, transitioning and former students, please visit the admissions website.

**Current Kent State and Transfer Students:** Active Kent State students who wish to change their major must have attempted a minimum 12 credit hours at Kent State and earned a minimum 2.000 overall Kent State GPA to be admitted. Students who have not attempted 12 credit hours at Kent State will be evaluated for admission based on their high school GPA for new students or transfer GPA for transfer students. Transfer students who have not attempted 12 credit hours of college-

level coursework at Kent State and/or other institutions will be evaluated based on both their high school GPA and college GPA.

## Program Learning Outcomes

Graduates of this program will be able to:

1. Identify physical, cognitive, emotional and social dimensions of human development and family relationships.
2. Identify reciprocal influences of family, school, work, and community contexts on human development.
3. Identify practical implications of human development and family relationship concepts.
4. Demonstrate an understanding of program development, delivery and evaluation.
5. Access scholarly sources and critically evaluate the quality of empirical research.
6. Demonstrate an understanding of theories, methods and principles of research.
7. Effectively communicate ideas in oral presentations and written papers.
8. Recognize the unique strengths and needs of individuals and families.
9. Apply knowledge of human development and family relationships through involvement with and study of diverse domestic and international populations.
10. Identify opportunities for advanced training in human development and family studies and related professions.
11. Identify opportunities for employment in human development and family studies and related professions.

## University Requirements

All students in a bachelor's degree program at Kent State University must complete the following university requirements for graduation.

**NOTE:** University requirements may be fulfilled in this program by specific course requirements. Please see Program Requirements for details.

Destination Kent State: First Year Experience	1
Course is not required for students with 25 transfer credits, excluding College Credit Plus, or age 21+ at time of admission.	
Diversity Domestic/Global (DIVD/DIVG)	2 courses
Students must successfully complete one domestic and one global course, of which one must be from the Kent Core.	
Experiential Learning Requirement (ELR)	varies
Students must successfully complete one course or approved experience.	
Kent Core (see table below)	36-37
Writing-Intensive Course (WIC)	1 course
Students must earn a minimum C grade in the course.	
Upper-Division Requirement	39 (or 42)
Students must successfully complete 39 upper-division (numbered 30000 to 49999) credit hours to graduate. Students in a B.A. and/or B.S. degree in the College of Arts and Sciences must complete 42 upper-division credit hours.	
Total Credit Hour Requirement	120
Some bachelor's degrees require students to complete more than 120 credit hours.	

## Kent Core Requirements

Kent Core Composition (KCMP)	6
Kent Core Mathematics and Critical Reasoning (KMCR)	3
Kent Core Humanities and Fine Arts (KHUM/KFA) (min one course each)	9
Kent Core Social Sciences (KSS) (must be from two disciplines)	6
Kent Core Basic Sciences (KBS/KLAB) (must include one laboratory)	6-7
Kent Core Additional (KADL)	6
<b>Total Credit Hours:</b>	<b>36-37</b>

## Program Requirements

### Major Requirements

Code	Title	Credit Hours
<b>Major Requirements (courses count in major GPA)</b>		
GERO 44030	ADULT DEVELOPMENT AND AGING (WIC) <sup>1</sup>	3
HDFS 14027	INTRODUCTION TO HUMAN DEVELOPMENT AND FAMILY STUDIES	3
HDFS 24011	INTERPERSONAL RELATIONSHIPS AND FAMILIES (DIVD)	3
HDFS 24012	CHILD DEVELOPMENT	3
HDFS 25512	MANAGEMENT OF FAMILY RESOURCES	3
HDFS 34031	CULTURAL DIVERSITY:IMPLICATIONS FOR THE HELPING PROFESSIONS	3
HDFS 44018	PROFESSIONAL DEVELOPMENT IN HUMAN DEVELOPMENT/FAMILY STUDIES <sup>2</sup>	3
HDFS 44020	ADOLESCENT DEVELOPMENT <sup>2</sup>	3
HDFS 44023	BUILDING FAMILY STRENGTHS <sup>2</sup>	3
HDFS 44028	PARENT-CHILD RELATIONSHIPS <sup>2</sup>	3
HDFS 44029	FAMILY POLICY <sup>2</sup>	3
<b>Additional Requirements (courses do not count in major GPA)</b>		
PSYC 11762	GENERAL PSYCHOLOGY (DIVD) (KSS)	3
PSYC 31574	RESEARCH METHODS IN PSYCHOLOGY (ELR)	3
or SOC 32210	RESEARCHING SOCIETY (ELR) (WIC)	
SOC 32220	DATA ANALYSIS	3-4
& SOC 32221	and DATA ANALYSIS LABORATORY	
or PSYC 21621	QUANTITATIVE METHODS IN PSYCHOLOGY I	
SOC 12050	INTRODUCTION TO SOCIOLOGY (DIVD) (KSS)	3
UC 10097	DESTINATION KENT STATE: FIRST YEAR EXPERIENCE	1
Kent Core Composition		6
Kent Core Mathematics and Critical Reasoning		3
Kent Core Humanities and Fine Arts (minimum one course from each)		9
Kent Core Additional		3
General Electives (total credit hours depends on earning 120 credit hours, including 39 upper-division credit hours)		5
<b>Concentrations</b>		
Choose from the following:		48
Case Management for Individuals and Families		
Child and Youth Development		
Family Life Education		
Gerontology		
Human Services		
Minimum Total Credit Hours:		120

<sup>1</sup> A minimum C grade must be earned to fulfill the writing-intensive requirement.

<sup>2</sup> Professional Phase coursework

## Case Management for Individuals and Families Concentration Requirements

Code	Title	Credit Hours
<b>Concentration Requirements (courses count in major GPA)</b>		
CES 37800	SMALL GROUP PROCESS	2-3
or COMM 35600	COMMUNICATION IN SMALL GROUPS AND TEAMS	
or HED 34060	SMALL GROUP PROCESS	
HDFS 44035	ASSESSMENT AND STRATEGIES IN CASE MANAGEMENT <sup>1</sup>	3
HDFS 44036	GENERAL CASE MANAGEMENT METHODS <sup>1</sup>	3
HED 32530	DRUG USE AND MISUSE	3
HDFS 44092	PRACTICUM IN HUMAN DEVELOPMENT AND FAMILY STUDIES (ELR)	3
HSRV 21000	DYNAMICS OF HELPING RELATIONSHIPS	3
PSYC 40111	ABNORMAL PSYCHOLOGY	3
or SOC 32762	DEVIANT BEHAVIOR	
or SPED 23000	INTRODUCTION TO EXCEPTIONALITIES (DIVD)	
Concentration Electives, choose from the following:		6
ARCH 45640	DEVELOPING ENVIRONMENTS FOR OLDER ADULTS	
CRIM 34311	YOUTH AND THE JUSTICE SYSTEM	
ENG 20002	INTRODUCTION TO TECHNICAL WRITING	
GERO 14029	INTRODUCTION TO GERONTOLOGY (DIVD) (KSS)	
GERO 40656	PSYCHOLOGY OF AGING	
GERO 41095	SPECIAL TOPICS IN GERONTOLOGY	
GERO 44031	SOCIAL POLICY AND COMMUNITY RESOURCES FOR OLDER ADULTS	
HDFS 24013	EARLY ADOLESCENCE	
HDFS 24014	BRIDGING CROSS-NATIONAL RELATIONSHIPS FOR INDIVIDUALS AND FAMILIES	
HDFS 41095	SPECIAL TOPICS IN HUMAN DEVELOPMENT AND FAMILY STUDIES	
HDFS 41096	INDIVIDUAL INVESTIGATION	
HDFS 42092	HUMAN DEVELOPMENT AND FAMILY STUDIES STUDY AWAY EXPERIENCE (ELR)	
HDFS 44021	FAMILY INTERVENTION ACROSS THE LIFESPAN <sup>1</sup>	
HDFS 44022	CHANGING ROLES OF MEN AND WOMEN	
HDFS 44032	NONPROFIT FUNDRAISING AND GRANTWRITING	
HDFS 44033	COMMUNITY OUTREACH IN NONPROFIT MANAGEMENT (ELR)	
HDFS 44034	PRINCIPLES AND PRACTICES OF NONPROFIT MANAGEMENT	
HDFS 44037	POSITIVE YOUTH DEVELOPMENT <sup>1</sup>	
HDFS 44039	BERREAVEMENT, TRAUMA AND OTHER LOSSES	
HED 14020	MEDICAL TERMINOLOGY	
HED 32530	DRUG USE AND MISUSE	
HED 32544	HUMAN SEXUALITY	
HED 42041	HEALTH COACHING	
IHS 44010	RESEARCH DESIGN AND STATISTICAL METHODS IN THE HEALTH PROFESSIONS	

JMC 28001	PRINCIPLES OF PUBLIC RELATIONS	
NUTR 23511	SCIENCE OF HUMAN NUTRITION (KBS)	
PACS 11001	INTRODUCTION TO CONFLICT MANAGEMENT (DIVD) (KSS)	
PACS 48080	MEDIATION: THEORY AND TRAINING	
PHIL 40005	HEALTH CARE ETHICS	
PSYC 40111	ABNORMAL PSYCHOLOGY	
RPTM 36010	RECREATION, LEISURE AND AGING	
SPED 23000	INTRODUCTION TO EXCEPTIONALITIES (DIVD)	
SOC 32762	DEVIANT BEHAVIOR	
SOC 42010	DEATH AND DYING	
SOC 42563	SOCIOLOGY OF HEALTH AND HEALTH CARE	
SOC 42879	AGING IN SOCIETY (DIVD)	

### Additional Requirements (courses do not count in major GPA)

Kent Core Basic Sciences (must include one laboratory)	6-7
Kent Core Additional	3
General Electives (total credit hours depends on earning 120 credit hours, including 39 upper-division credit hours)	13
Minimum Total Credit Hours:	48

<sup>1</sup> Professional Phase coursework

## Child and Youth Development Concentration Requirements

Code	Title	Credit Hours
<b>Concentration Requirements (courses count in major GPA)</b>		
CES 37800	SMALL GROUP PROCESS	2-3
or COMM 35600	COMMUNICATION IN SMALL GROUPS AND TEAMS	
or HED 34060	SMALL GROUP PROCESS	
CRIM 34311	YOUTH AND THE JUSTICE SYSTEM	3
or HED 32530	DRUG USE AND MISUSE	
or HED 32544	HUMAN SEXUALITY	
or SPED 23000	INTRODUCTION TO EXCEPTIONALITIES (DIVD)	
HDFS 24013	EARLY ADOLESCENCE	3
HDFS 44021	FAMILY INTERVENTION ACROSS THE LIFESPAN <sup>1</sup>	3
HDFS 44035	ASSESSMENT AND STRATEGIES IN CASE MANAGEMENT <sup>1</sup>	3
HDFS 44037	POSITIVE YOUTH DEVELOPMENT <sup>1</sup>	3
HDFS 44038	PROFESSIONAL CHILD AND YOUTH WORK PRACTICE <sup>1</sup>	3
HDFS 44092	PRACTICUM IN HUMAN DEVELOPMENT AND FAMILY STUDIES (ELR) <sup>1</sup>	3-6
HED 34050	PROGRAM PLANNING AND EVALUATION IN HEALTH EDUCATION	3
or RPTM 36075	PROGRAM DESIGN AND EVALUATION	
Concentration Electives, choose from the following:		6
ARCH 45640	DEVELOPING ENVIRONMENTS FOR OLDER ADULTS	
CRIM 34311	YOUTH AND THE JUSTICE SYSTEM	
ENG 20002	INTRODUCTION TO TECHNICAL WRITING	
GERO 14029	INTRODUCTION TO GERONTOLOGY (DIVD) (KSS)	
GERO 40656	PSYCHOLOGY OF AGING	
GERO 41095	SPECIAL TOPICS IN GERONTOLOGY	
GERO 44031	SOCIAL POLICY AND COMMUNITY RESOURCES FOR OLDER ADULTS	

HDFS 24014	BRIDGING CROSS-NATIONAL RELATIONSHIPS FOR INDIVIDUALS AND FAMILIES
HDFS 41095	SPECIAL TOPICS IN HUMAN DEVELOPMENT AND FAMILY STUDIES
HDFS 41096	INDIVIDUAL INVESTIGATION
HDFS 42092	HUMAN DEVELOPMENT AND FAMILY STUDIES STUDY AWAY EXPERIENCE (ELR)
HDFS 44022	CHANGING ROLES OF MEN AND WOMEN
HDFS 44032	NONPROFIT FUNDRAISING AND GRANTWRITING
HDFS 44033	COMMUNITY OUTREACH IN NONPROFIT MANAGEMENT (ELR)
HDFS 44034	PRINCIPLES AND PRACTICES OF NONPROFIT MANAGEMENT
HDFS 44036	GENERAL CASE MANAGEMENT METHODS <sup>1</sup>
HDFS 44039	BERREAVEMENT, TRAUMA AND OTHER LOSSES
HED 14020	MEDICAL TERMINOLOGY
HED 32530	DRUG USE AND MISUSE
HED 32544	HUMAN SEXUALITY
HED 42041	HEALTH COACHING
HSRV 21000	DYNAMICS OF HELPING RELATIONSHIPS
IHS 44010	RESEARCH DESIGN AND STATISTICAL METHODS IN THE HEALTH PROFESSIONS
JMC 28001	PRINCIPLES OF PUBLIC RELATIONS
NUTR 23511	SCIENCE OF HUMAN NUTRITION (KBS)
PACS 11001	INTRODUCTION TO CONFLICT MANAGEMENT (DIVD) (KSS)
PACS 48080	MEDIATION: THEORY AND TRAINING
PHIL 40005	HEALTH CARE ETHICS
PSYC 40111	ABNORMAL PSYCHOLOGY
RPTM 36010	RECREATION, LEISURE AND AGING
SPED 23000	INTRODUCTION TO EXCEPTIONALITIES (DIVD)
SOC 32762	DEVIANT BEHAVIOR
SOC 42010	DEATH AND DYING
SOC 42563	SOCIOLOGY OF HEALTH AND HEALTH CARE
SOC 42879	AGING IN SOCIETY (DIVD)

**Additional Requirements (courses do not count in major GPA)**

Kent Core Basic Sciences (must include one laboratory)	6-7
Kent Core Additional	3
General Electives (total credit hours depends on earning 120 credit hours, including 39 upper-division credit hours)	7
Minimum Total Credit Hours:	48

<sup>1</sup> Professional Phase coursework**Family Life Education Concentration Requirements**

Code	Title	Credit Hours
<b>Concentration Requirements (courses count in major GPA)</b>		
COMM 20001	INTERPERSONAL COMMUNICATION	3
HDFS 44021	FAMILY INTERVENTION ACROSS THE LIFESPAN <sup>1</sup>	3
HDFS 44022	CHANGING ROLES OF MEN AND WOMEN	3
HDFS 44030	FAMILY LIFE EDUCATION METHODOLOGY <sup>1</sup>	3
HDFS 44092	PRACTICUM IN HUMAN DEVELOPMENT AND FAMILY STUDIES (ELR) <sup>1</sup>	3-6
HED 32544	HUMAN SEXUALITY	3

Concentration Electives I, choose from the following:		5-6
ENG 20002	INTRODUCTION TO TECHNICAL WRITING	
HED 32530	DRUG USE AND MISUSE	
HED 34060	SMALL GROUP PROCESS	
HED 42041	HEALTH COACHING	
PACS 11001	INTRODUCTION TO CONFLICT MANAGEMENT (DIVD) (KSS)	
PACS 48080	MEDIATION: THEORY AND TRAINING	
SPED 23000	INTRODUCTION TO EXCEPTIONALITIES (DIVD)	
Concentration Electives II, choose from the following:		6
ARCH 45640	DEVELOPING ENVIRONMENTS FOR OLDER ADULTS	
COMM 35600	COMMUNICATION IN SMALL GROUPS AND TEAMS	
CRIM 34311	YOUTH AND THE JUSTICE SYSTEM	
ENG 20002	INTRODUCTION TO TECHNICAL WRITING	
GERO 14029	INTRODUCTION TO GERONTOLOGY (DIVD) (KSS)	
GERO 40656	PSYCHOLOGY OF AGING	
GERO 41095	SPECIAL TOPICS IN GERONTOLOGY	
GERO 44031	SOCIAL POLICY AND COMMUNITY RESOURCES FOR OLDER ADULTS	
HDFS 24013	EARLY ADOLESCENCE	
HDFS 24014	BRIDGING CROSS-NATIONAL RELATIONSHIPS FOR INDIVIDUALS AND FAMILIES	
HDFS 41095	SPECIAL TOPICS IN HUMAN DEVELOPMENT AND FAMILY STUDIES	
HDFS 41096	INDIVIDUAL INVESTIGATION	
HDFS 42092	HUMAN DEVELOPMENT AND FAMILY STUDIES STUDY AWAY EXPERIENCE (ELR)	
HDFS 44032	NONPROFIT FUNDRAISING AND GRANTWRITING	
HDFS 44033	COMMUNITY OUTREACH IN NONPROFIT MANAGEMENT (ELR)	
HDFS 44034	PRINCIPLES AND PRACTICES OF NONPROFIT MANAGEMENT	
HDFS 44035	ASSESSMENT AND STRATEGIES IN CASE MANAGEMENT <sup>1</sup>	
HDFS 44036	GENERAL CASE MANAGEMENT METHODS <sup>1</sup>	
HDFS 44037	POSITIVE YOUTH DEVELOPMENT <sup>1</sup>	
HDFS 44039	BERREAVEMENT, TRAUMA AND OTHER LOSSES	
HED 14020	MEDICAL TERMINOLOGY	
HED 32530	DRUG USE AND MISUSE	
HED 34060	SMALL GROUP PROCESS	
or CES 37800	SMALL GROUP PROCESS	
HED 42041	HEALTH COACHING	
HSRV 21000	DYNAMICS OF HELPING RELATIONSHIPS	
IHS 44010	RESEARCH DESIGN AND STATISTICAL METHODS IN THE HEALTH PROFESSIONS	
JMC 28001	PRINCIPLES OF PUBLIC RELATIONS	
NUTR 23511	SCIENCE OF HUMAN NUTRITION (KBS)	
PACS 11001	INTRODUCTION TO CONFLICT MANAGEMENT (DIVD) (KSS)	
PACS 48080	MEDIATION: THEORY AND TRAINING	
PHIL 40005	HEALTH CARE ETHICS	
PSYC 40111	ABNORMAL PSYCHOLOGY	
RPTM 36010	RECREATION, LEISURE AND AGING	
SPED 23000	INTRODUCTION TO EXCEPTIONALITIES (DIVD)	



SOC 32762	DEVIANT BEHAVIOR	
SOC 42010	DEATH AND DYING	
SOC 42563	SOCIOLOGY OF HEALTH AND HEALTH CARE	
SOC 42879	AGING IN SOCIETY (DIVD)	
<b>Additional Requirements (courses do not count in major GPA)</b>		
Kent Core Basic Sciences (must include one laboratory)		6-7
Kent Core Additional		3
General Electives (total credit hours depends on earning 120 credit hours, including 39 upper-division credit hours)		10
Minimum Total Credit Hours:		48

<sup>1</sup> Professional Phase coursework

## Gerontology Concentration Requirements

Code	Title	Credit Hours
<b>Concentration Requirements (courses count in major GPA)</b>		
BSCI 40020	BIOLOGY OF AGING <sup>1</sup>	3
COMM 36505	COMMUNICATION, AGING AND CULTURE	3
GERO 14029	INTRODUCTION TO GERONTOLOGY (DIVD) (KSS)	3
GERO 40656	PSYCHOLOGY OF AGING	3
GERO 44092	PRACTICUM IN GERONTOLOGY (ELR) <sup>2</sup>	3-6
SOC 42879	AGING IN SOCIETY (DIVD)	3
Concentration Electives I, choose from the following:		6
ARCH 45640	DEVELOPING ENVIRONMENTS FOR OLDER ADULTS	
COMM 26501	INTRODUCTION TO HEALTH COMMUNICATION	
HED 42041	HEALTH COACHING	
IHS 44010	RESEARCH DESIGN AND STATISTICAL METHODS IN THE HEALTH PROFESSIONS	
JMC 28001	PRINCIPLES OF PUBLIC RELATIONS	
LTCA 44032	LONG-TERM CARE ADMINISTRATION I	
PHIL 40005	HEALTH CARE ETHICS	
RPTM 36010	RECREATION, LEISURE AND AGING	
SOC 42010	DEATH AND DYING	
SOC 42563	SOCIOLOGY OF HEALTH AND HEALTH CARE	
SPA 44130	COMMUNICATION DISORDERS OF THE AGING	
Concentration Electives II, choose from the following:		6
ARCH 45640	DEVELOPING ENVIRONMENTS FOR OLDER ADULTS	
COMM 35600	COMMUNICATION IN SMALL GROUPS AND TEAMS	
CRIM 34311	YOUTH AND THE JUSTICE SYSTEM	
ENG 20002	INTRODUCTION TO TECHNICAL WRITING	
GERO 41095	SPECIAL TOPICS IN GERONTOLOGY	
HDFS 24013	EARLY ADOLESCENCE	
HDFS 24014	BRIDGING CROSS-NATIONAL RELATIONSHIPS FOR INDIVIDUALS AND FAMILIES	
HDFS 41095	SPECIAL TOPICS IN HUMAN DEVELOPMENT AND FAMILY STUDIES	
HDFS 41096	INDIVIDUAL INVESTIGATION	
HDFS 42092	HUMAN DEVELOPMENT AND FAMILY STUDIES STUDY AWAY EXPERIENCE (ELR)	
HDFS 44021	FAMILY INTERVENTION ACROSS THE LIFESPAN <sup>3</sup>	
HDFS 44022	CHANGING ROLES OF MEN AND WOMEN	
HDFS 44032	NONPROFIT FUNDRAISING AND GRANTWRITING	

HDFS 44033	COMMUNITY OUTREACH IN NONPROFIT MANAGEMENT (ELR)	
HDFS 44034	PRINCIPLES AND PRACTICES OF NONPROFIT MANAGEMENT	
HDFS 44035	ASSESSMENT AND STRATEGIES IN CASE MANAGEMENT <sup>3</sup>	
HDFS 44036	GENERAL CASE MANAGEMENT METHODS <sup>3</sup>	
HDFS 44037	POSITIVE YOUTH DEVELOPMENT <sup>3</sup>	
HDFS 44039	BEREAVEMENT, TRAUMA AND OTHER LOSSES	
HED 14020	MEDICAL TERMINOLOGY	
HED 32530	DRUG USE AND MISUSE	
HED 32544	HUMAN SEXUALITY	
HED 34060	SMALL GROUP PROCESS	
or CES 37800	SMALL GROUP PROCESS	
HED 42041	HEALTH COACHING	
HSRV 21000	DYNAMICS OF HELPING RELATIONSHIPS	
IHS 44010	RESEARCH DESIGN AND STATISTICAL METHODS IN THE HEALTH PROFESSIONS	
JMC 28001	PRINCIPLES OF PUBLIC RELATIONS	
NUTR 23511	SCIENCE OF HUMAN NUTRITION (KBS)	
PACS 11001	INTRODUCTION TO CONFLICT MANAGEMENT (DIVD) (KSS)	
PACS 48080	MEDIATION: THEORY AND TRAINING	
PHIL 40005	HEALTH CARE ETHICS	
PSYC 40111	ABNORMAL PSYCHOLOGY	
RPTM 36010	RECREATION, LEISURE AND AGING	
SPED 23000	INTRODUCTION TO EXCEPTIONALITIES (DIVD)	
SOC 32762	DEVIANT BEHAVIOR	
SOC 42010	DEATH AND DYING	
SOC 42563	SOCIOLOGY OF HEALTH AND HEALTH CARE	
<b>Additional Requirements (courses do not count in major GPA)</b>		
ATTR/EXSC 25057	HUMAN ANATOMY AND PHYSIOLOGY I (KBS) (KLAB) <sup>1,4</sup>	4
ATTR/EXSC 25058	HUMAN ANATOMY AND PHYSIOLOGY II (KBS) (KLAB) <sup>1,5</sup>	4
General Electives (total credit hours depends on earning 120 credit hours, including 39 upper-division credit hours)		10
Minimum Total Credit Hours:		48

<sup>1</sup> Students who have successfully completed any prerequisite course requirements for BSCI 40020 may use that coursework in place of ATTR 25057 (or EXSC 25057) or ATTR 25058 (or EXSC 25058); however, additional coursework may be required to fulfill Kent Core requirements.

<sup>2</sup> Maximum of 6 credit hours of GERO 44092 may be applied towards the HDFS program requirements.

<sup>3</sup> Professional Phase coursework

<sup>4</sup> Students who have successfully completed BSCI 11010 may use that course in place of ATTR 25057 or EXSC 25057.

<sup>5</sup> Students who have successfully completed BSCI 11020 may use that course in place of ATTR 25058 or EXSC 25058.

## Human Services Concentration Requirements

Code	Title	Credit Hours
<b>Concentration Requirements (courses count in major GPA)</b>		
HSRV 11001	GROUP METHODS IN HUMAN SERVICES	3
HSRV 11002	SURVEY OF COMMUNITY RESOURCES	3

HSRV 21000	DYNAMICS OF HELPING RELATIONSHIPS	3
HSRV 21001	ASSESSMENT METHODS IN HUMAN SERVICES	3
HSRV 21002	COMMUNITY SUPPORTIVE CASE MANAGEMENT AND ADVOCACY IN HUMAN SERVICES	3
HSRV 21092	INTERNSHIP IN HUMAN SERVICES I (ELR)	3
HSRV 21192	INTERNSHIP IN HUMAN SERVICES II (ELR)	3
Concentration Electives, choose from the following:		6
ARCH 45640	DEVELOPING ENVIRONMENTS FOR OLDER ADULTS	
COMM 35600	COMMUNICATION IN SMALL GROUPS AND TEAMS	
CRIM 34311	YOUTH AND THE JUSTICE SYSTEM	
ENG 20002	INTRODUCTION TO TECHNICAL WRITING	
GERO 14029	INTRODUCTION TO GERONTOLOGY (DIVD) (KSS)	
GERO 40656	PSYCHOLOGY OF AGING	
GERO 41095	SPECIAL TOPICS IN GERONTOLOGY	
GERO 44031	SOCIAL POLICY AND COMMUNITY RESOURCES FOR OLDER ADULTS	
HDFS 24013	EARLY ADOLESCENCE	
HDFS 24014	BRIDGING CROSS-NATIONAL RELATIONSHIPS FOR INDIVIDUALS AND FAMILIES	
HDFS 41095	SPECIAL TOPICS IN HUMAN DEVELOPMENT AND FAMILY STUDIES	
HDFS 41096	INDIVIDUAL INVESTIGATION	
HDFS 42092	HUMAN DEVELOPMENT AND FAMILY STUDIES STUDY AWAY EXPERIENCE (ELR)	
HDFS 44021	FAMILY INTERVENTION ACROSS THE LIFESPAN <sup>1</sup>	
HDFS 44022	CHANGING ROLES OF MEN AND WOMEN	
HDFS 44032	NONPROFIT FUNDRAISING AND GRANTWRITING	
HDFS 44033	COMMUNITY OUTREACH IN NONPROFIT MANAGEMENT (ELR)	
HDFS 44034	PRINCIPLES AND PRACTICES OF NONPROFIT MANAGEMENT	
HDFS 44035	ASSESSMENT AND STRATEGIES IN CASE MANAGEMENT <sup>1</sup>	
HDFS 44036	GENERAL CASE MANAGEMENT METHODS <sup>1</sup>	
HDFS 44037	POSITIVE YOUTH DEVELOPMENT <sup>1</sup>	
HDFS 44039	BERREAVEMENT, TRAUMA AND OTHER LOSSES	
HED 14020	MEDICAL TERMINOLOGY	
HED 32530	DRUG USE AND MISUSE	
HED 32544	HUMAN SEXUALITY	
HED 34060	SMALL GROUP PROCESS	
or CES 37800	SMALL GROUP PROCESS	
HED 42041	HEALTH COACHING	
HSRV 21003	SOCIAL WELFARE IN HUMAN SERVICES	
IHS 44010	RESEARCH DESIGN AND STATISTICAL METHODS IN THE HEALTH PROFESSIONS	
JMC 28001	PRINCIPLES OF PUBLIC RELATIONS	
NUTR 23511	SCIENCE OF HUMAN NUTRITION (KBS)	
PACS 11001	INTRODUCTION TO CONFLICT MANAGEMENT (DIVD) (KSS)	
PACS 48080	MEDIATION: THEORY AND TRAINING	
PHIL 40005	HEALTH CARE ETHICS	
PSYC 40111	ABNORMAL PSYCHOLOGY	

RPTM 36010	RECREATION, LEISURE AND AGING
SPED 23000	INTRODUCTION TO EXCEPTIONALITIES (DIVD)
SOC 32762	DEVIANT BEHAVIOR
SOC 42010	DEATH AND DYING
SOC 42563	SOCIOLOGY OF HEALTH AND HEALTH CARE
SOC 42879	AGING IN SOCIETY (DIVD)

**Additional Requirements (courses do not count in major GPA)**

Kent Core Basic Sciences (must include one laboratory)	6-7
Kent Core Additional	3
General Electives (total credit hours depends on earning 120 credit hours, including 39 upper-division credit hours)	12
Minimum Total Credit Hours:	48

<sup>1</sup> Professional Phase coursework**Progression Requirements**

To be able to register for upper-division Human Development and Family Studies (HDFS 30000 or 40000 level) courses, students must be admitted to the professional phase of the program. Admittance is a selective process. Criteria for acceptance are the following:

- Minimum 2.500 overall GPA earned in the following courses: ENG 11011, ENG 21011, HDFS 14027, HDFS 24011, HDFS 24012, PSYC 11762, SOC 12050
- Minimum 3.000 overall GPA earned in the following courses: HDFS 14027, HDFS 24011, HDFS 24012
- For students in the Human Services concentration, completion of the Associate of Applied Science degree in Human Service is required prior to being admitted to the professional phase

**Graduation Requirements**

Minimum Major GPA	Minimum Overall GPA
2.250	2.000

- State/federal background checks may be required for some practicum/internship sites. Results indicating one of the disqualifying offenses, whether expunged or current, may result in the inability to be placed in select practicum/internship sites.

**Roadmaps**

- Case Management for Individuals and Family Study Concentration
- Child and Youth Development Concentration
- Family Life Education Concentration
- Gerontology Concentration

## CASE MANAGEMENT FOR INDIVIDUALS AND FAMILY STUDY CONCENTRATION

This roadmap is a recommended semester-by-semester plan of study for this major. However, courses designated as critical (!) must be completed in the semester listed to ensure a timely graduation.

<b>Semester One</b>		<b>Credits</b>
!	HDFS 14027 INTRODUCTION TO HUMAN DEVELOPMENT AND FAMILY STUDIES	3
	SOC 12050 INTRODUCTION TO SOCIOLOGY (DIVD) (KSS)	3
	UC 10097 DESTINATION KENT STATE: FIRST YEAR EXPERIENCE	1
	Kent Core Requirement	3
	Kent Core Requirement	3
	Kent Core Requirement	3
Credit Hours		16
<b>Semester Two</b>		
!	HDFS 24011 INTERPERSONAL RELATIONSHIPS AND FAMILIES (DIVD)	3
	PSYC 11762 GENERAL PSYCHOLOGY (DIVD) (KSS)	3
	Kent Core Requirement	3
	Kent Core Requirement	3
	Kent Core Requirement	3
Credit Hours		15
<b>Semester Three</b>		
!	HDFS 24012 CHILD DEVELOPMENT	3
	HDFS 25512 MANAGEMENT OF FAMILY RESOURCES	3
	Kent Core Requirement	3
	Kent Core Requirement	3
	Kent Core Requirement	3
Credit Hours		15
<b>Semester Four</b>		
Progression requirement: admission to the professional phase		
	CES 37800 SMALL GROUP PROCESS	2
	or COMMUNICATION IN SMALL GROUPS AND	
	COMM 35600 TEAMS	
	or SMALL GROUP PROCESS	
	HED 34060	
	HDFS 34031 CULTURAL DIVERSITY:IMPLICATIONS FOR THE HELPING PROFESSIONS	3
	HED 32530 DRUG USE AND MISUSE	3
	Kent Core Requirement	3
	General Elective	3
Credit Hours		14
<b>Semester Five</b>		
	HSRV 21000 DYNAMICS OF HELPING RELATIONSHIPS	3
	PSYC 31574 RESEARCH METHODS IN PSYCHOLOGY (ELR)	3
	or RESEARCHING SOCIETY (ELR) (WIC)	
	SOC 32210	
	PSYC 40111 ABNORMAL PSYCHOLOGY	3
	or DEVIANT BEHAVIOR	
	SOC 32762 or INTRODUCTION TO EXCEPTIONALITIES (DIVD)	
	or SPED 23000	
	General Electives	6
Credit Hours		15
<b>Semester Six</b>		
	GERO 44030 ADULT DEVELOPMENT AND AGING (WIC)	3
	HDFS 44020 ADOLESCENT DEVELOPMENT	3

SOC 32220 & SOC 32221 or PSYC 21621	DATA ANALYSIS and DATA ANALYSIS LABORATORY or QUANTITATIVE METHODS IN PSYCHOLOGY	3-4
Concentration Elective		3
General Elective		3
Credit Hours		15
<b>Semester Seven</b>		
HDFS 44018	PROFESSIONAL DEVELOPMENT IN HUMAN DEVELOPMENT/FAMILY STUDIES	3
HDFS 44023	BUILDING FAMILY STRENGTHS	3
HDFS 44035	ASSESSMENT AND STRATEGIES IN CASE MANAGEMENT	3
Concentration Elective		3
Credit Hours		12
<b>Semester Eight</b>		
HDFS 44028	PARENT-CHILD RELATIONSHIPS	3
HDFS 44029	FAMILY POLICY	3
HDFS 44036	GENERAL CASE MANAGEMENT METHODS	3
HDFS 44092	PRACTICUM IN HUMAN DEVELOPMENT AND FAMILY STUDIES (ELR)	3
General Elective		6
Credit Hours		18
Minimum Total Credit Hours:		120

## Child and Youth Development Concentration

This roadmap is a recommended semester-by-semester plan of study for this major. However, courses designated as critical (!) must be completed in the semester listed to ensure a timely graduation.

<b>Semester One</b>		<b>Credits</b>
!	HDFS 14027 INTRODUCTION TO HUMAN DEVELOPMENT AND FAMILY STUDIES	3
	SOC 12050 INTRODUCTION TO SOCIOLOGY (DIVD) (KSS)	3
	UC 10097 DESTINATION KENT STATE: FIRST YEAR EXPERIENCE	1
	Kent Core Requirement	3
	Kent Core Requirement	3
	Kent Core Requirement	3
Credit Hours		16
<b>Semester Two</b>		
!	HDFS 24011 INTERPERSONAL RELATIONSHIPS AND FAMILIES (DIVD)	3
	PSYC 11762 GENERAL PSYCHOLOGY (DIVD) (KSS)	3
	Kent Core Requirement	3
	Kent Core Requirement	3
	Kent Core Requirement	3
Credit Hours		15
<b>Semester Three</b>		
!	HDFS 24012 CHILD DEVELOPMENT	3
	HDFS 24013 EARLY ADOLESCENCE	3
	Kent Core Requirement	3
	Kent Core Requirement	3
	Kent Core Requirement	3
Credit Hours		15
<b>Semester Four</b>		
Progression requirement: admission to the professional phase		
	CES 37800 SMALL GROUP PROCESS	2-3
	or COMMUNICATION IN SMALL GROUPS AND	
	COMM 35600 TEAMS	
	or SMALL GROUP PROCESS	
	HED 34060	
	HDFS 25512 MANAGEMENT OF FAMILY RESOURCES	3
	HDFS 34031 CULTURAL DIVERSITY:IMPLICATIONS FOR THE HELPING PROFESSIONS	3
	Kent Core Requirement	3
	General Elective	3
Credit Hours		14
<b>Semester Five</b>		
	HDFS 44020 ADOLESCENT DEVELOPMENT	3
	HDFS 44035 ASSESSMENT AND STRATEGIES IN CASE MANAGEMENT	3
	PSYC 31574 RESEARCH METHODS IN PSYCHOLOGY (ELR)	3
	or RESEARCHING SOCIETY (ELR) (WIC)	
	SOC 32210	
	Concentration Elective	3
	General Elective	3
Credit Hours		15

### Semester Six

CRIM 34311	YOUTH AND THE JUSTICE SYSTEM	3
or	or DRUG USE AND MISUSE	
HED 32530	or HUMAN SEXUALITY	
or	or INTRODUCTION TO EXCEPTIONALITIES (DIVD)	
HED 32544		
or		
SPED 23000		
!	GERO 44030 ADULT DEVELOPMENT AND AGING (WIC)	3
HED 34050	PROGRAM PLANNING AND EVALUATION IN HEALTH EDUCATION	3
or	RPTM 36075 or PROGRAM DESIGN AND EVALUATION	
HDFS 44021	FAMILY INTERVENTION ACROSS THE LIFESPAN	3
SOC 32220	DATA ANALYSIS	3-4
& SOC 32221	and DATA ANALYSIS LABORATORY	
or	or QUANTITATIVE METHODS IN PSYCHOLOGY	
PSYC 21621	I	
Credit Hours		15
<b>Semester Seven</b>		
HDFS 44018	PROFESSIONAL DEVELOPMENT IN HUMAN DEVELOPMENT/FAMILY STUDIES	3
HDFS 44028	PARENT-CHILD RELATIONSHIPS	3
HDFS 44023	BUILDING FAMILY STRENGTHS	3
HDFS 44037	POSITIVE YOUTH DEVELOPMENT	3
Concentration Elective		3
Credit Hours		15
<b>Semester Eight</b>		
HDFS 44029	FAMILY POLICY	3
HDFS 44038	PROFESSIONAL CHILD AND YOUTH WORK PRACTICE	3
HDFS 44092	PRACTICUM IN HUMAN DEVELOPMENT AND FAMILY STUDIES (ELR)	3-6
General Electives		6
Credit Hours		15
Minimum Total Credit Hours:		120

## Family Life Education Concentration

This roadmap is a recommended semester-by-semester plan of study for this major. However, courses designated as critical (!) must be completed in the semester listed to ensure a timely graduation.

<b>Semester One</b>		<b>Credits</b>
!	HDFS 14027 INTRODUCTION TO HUMAN DEVELOPMENT AND FAMILY STUDIES	3
	SOC 12050 INTRODUCTION TO SOCIOLOGY (DIVD) (KSS)	3
	UC 10097 DESTINATION KENT STATE: FIRST YEAR EXPERIENCE	1
	Kent Core Requirement	3
	Kent Core Requirement	3
	Kent Core Requirement	3
Credit Hours		16
<b>Semester Two</b>		
!	HDFS 24011 INTERPERSONAL RELATIONSHIPS AND FAMILIES (DIVD)	3
	PSYC 11762 GENERAL PSYCHOLOGY (DIVD) (KSS)	3
	Kent Core Requirement	3
	Kent Core Requirement	3
	Kent Core Requirement	3
Credit Hours		15
<b>Semester Three</b>		
	COMM 20001 INTERPERSONAL COMMUNICATION	3
!	HDFS 24012 CHILD DEVELOPMENT	3
	Kent Core Requirement	3
	Kent Core Requirement	3
	Kent Core Requirement	3
Credit Hours		15
<b>Semester Four</b>		
Progression requirement: admission to the professional phase		
	HDFS 25512 MANAGEMENT OF FAMILY RESOURCES	3
	Concentration Elective I	2-3
	Kent Core Requirement	3
	General Electives	6
Credit Hours		14
<b>Semester Five</b>		
	GERO 44030 ADULT DEVELOPMENT AND AGING (WIC)	3
	HDFS 34031 CULTURAL DIVERSITY:IMPLICATIONS FOR THE HELPING PROFESSIONS	3
	HED 32544 HUMAN SEXUALITY	3
	PSYC 31574 RESEARCH METHODS IN PSYCHOLOGY (ELR) or RESEARCHING SOCIETY (ELR) (WIC) SOC 32210	3
	Concentration Elective I	3
Credit Hours		15
<b>Semester Six</b>		
	HDFS 44020 ADOLESCENT DEVELOPMENT	3
	HDFS 44022 CHANGING ROLES OF MEN AND WOMEN	3
	SOC 32220 DATA ANALYSIS & SOC 32221 and DATA ANALYSIS LABORATORY or QUANTITATIVE METHODS IN PSYCHOLOGY PSYC 21621 I	3-4
	Concentration Elective II	3
	General Elective	3
Credit Hours		15

### Semester Seven

HDFS 44018	PROFESSIONAL DEVELOPMENT IN HUMAN DEVELOPMENT/FAMILY STUDIES	3
HDFS 44028	PARENT-CHILD RELATIONSHIPS	3
HDFS 44023	BUILDING FAMILY STRENGTHS	3
HDFS 44030	FAMILY LIFE EDUCATION METHODOLOGY	3
Concentration Elective II		3
Credit Hours		15
<b>Semester Eight</b>		
HDFS 44021	FAMILY INTERVENTION ACROSS THE LIFESPAN	3
HDFS 44029	FAMILY POLICY	3
HDFS 44092	PRACTICUM IN HUMAN DEVELOPMENT AND FAMILY STUDIES (ELR)	3-6
General Electives		6
Credit Hours		15
Minimum Total Credit Hours:		120



## Gerontology Concentration

This roadmap is a recommended semester-by-semester plan of study for this major. However, courses designated as critical (!) must be completed in the semester listed to ensure a timely graduation.

Semester One		Credits
GERO 14029	INTRODUCTION TO GERONTOLOGY (DIVD) (KSS)	3
SOC 12050	INTRODUCTION TO SOCIOLOGY (DIVD) (KSS)	3
UC 10097	DESTINATION KENT STATE: FIRST YEAR EXPERIENCE	1
Kent Core Requirement		3
Kent Core Requirement		3
Kent Core Requirement		3
Credit Hours		16
Semester Two		
! HDFS 14027	INTRODUCTION TO HUMAN DEVELOPMENT AND FAMILY STUDIES	3
! HDFS 24011	INTERPERSONAL RELATIONSHIPS AND FAMILIES (DIVD)	3
PSYC 11762	GENERAL PSYCHOLOGY (DIVD) (KSS)	3
Kent Core Requirement		3
Kent Core Requirement		3
Credit Hours		15
Semester Three		
ATTR 25057 or EXSC 25057	HUMAN ANATOMY AND PHYSIOLOGY I (KBS) (KLAB) or HUMAN ANATOMY AND PHYSIOLOGY I (KBS) (KLAB)	4
! HDFS 24012	CHILD DEVELOPMENT	3
Kent Core Requirement		3
Kent Core Requirement		3
Credit Hours		13
Semester Four		
Progression requirement: admission to the professional phase		
ATTR 25058 or EXSC 25058	HUMAN ANATOMY AND PHYSIOLOGY II (KBS) (KLAB) or HUMAN ANATOMY AND PHYSIOLOGY II (KBS) (KLAB)	4
HDFS 25512	MANAGEMENT OF FAMILY RESOURCES	3
Concentration Elective II		3
General Electives		6
Credit Hours		16
Semester Five		
GERO 40656	PSYCHOLOGY OF AGING	3
HDFS 44020	ADOLESCENT DEVELOPMENT	3
PSYC 31574 or SOC 32210	RESEARCH METHODS IN PSYCHOLOGY (ELR) or RESEARCHING SOCIETY (ELR) (WIC)	3
Concentration Elective II		3
General Elective		3
Credit Hours		15
Semester Six		
GERO 44030	ADULT DEVELOPMENT AND AGING (WIC)	3
HDFS 34031	CULTURAL DIVERSITY:IMPLICATIONS FOR THE HELPING PROFESSIONS	3
HDFS 44028	PARENT-CHILD RELATIONSHIPS	3

SOC 32220 & SOC 32221 or PSYC 21621	DATA ANALYSIS and DATA ANALYSIS LABORATORY or QUANTITATIVE METHODS IN PSYCHOLOGY I	3-4
Concentration Elective I		3
Credit Hours		15
Semester Seven		
BSCI 40020	BIOLOGY OF AGING	3
HDFS 44018	PROFESSIONAL DEVELOPMENT IN HUMAN DEVELOPMENT/FAMILY STUDIES	3
HDFS 44029	FAMILY POLICY	3
Concentration Elective I		3
General Elective		3
Credit Hours		15
Semester Eight		
COMM 36505	COMMUNICATION, AGING AND CULTURE	3
GERO 44092	PRACTICUM IN GERONTOLOGY (ELR)	3-6
HDFS 44023	BUILDING FAMILY STRENGTHS	3
SOC 42879	AGING IN SOCIETY (DIVD)	3
General Elective		3
Credit Hours		15
Minimum Total Credit Hours:		120

# Human Development and Family Studies - M.A.

## College of Education Health and Human Services

School of Lifespan Development and Educational Sciences

405 White Hall

Kent Campus

330-672-2294

[www.kent.edu/ehhs/ldes](http://www.kent.edu/ehhs/ldes)

## Description

The Master of Arts degree in Human Development and Family Studies provides students with advanced knowledge in the fields of family sciences and human development and the opportunity to develop multidisciplinary research and community outreach skills.

Coursework enables students to apply to become Certified Family Life Educators. Courses focus on current research and practice in human development and family studies with an emphasis on family theories and processes; family life education; the reciprocal influences of family, school, work and community contexts; development across the lifespan; and the strengths and needs of diverse populations.

The program emphasizes both basic and applied research. Student participation in interdisciplinary research and community outreach projects is encouraged. Graduates are prepared for leadership and teaching positions in the social services, junior and community colleges and cooperative extension and/or for pursuing doctoral-level study.

## Fully Offered At:

- Kent Campus

## Admission Requirements

- Bachelor's degree from an accredited college or university for unconditional admission
- Minimum 3.000 undergraduate GPA on a 4.000 point scale for unconditional admission
- Official transcript(s)
- Goal statement
- Three letters of recommendation
- English language proficiency - all international students must provide proof of English language proficiency (unless they meet specific exceptions) by earning one of the following:
  - Minimum 550 TOEFL PBT score (paper-based version)
  - Minimum 79 TOEFL IBT score (Internet-based version)
  - Minimum 77 MELAB score
  - Minimum 6.5 IELTS score
  - Minimum 58 PTE score

For more information about graduate admissions, please visit the Graduate Studies admission website. For more information on international admission, visit the Office of Global Education's admission website.

## Program Learning Outcomes

Graduates of this program will be able to:

1. Identify physical, intellectual, emotional and social dimensions of human life within their respective disciplines.
2. Identify ways to contribute to quality of human life within their respective disciplines.
3. Participate in quality developmental and family research and outreach within their respective disciplines.
4. Identify practical implications of human development and family relationship concepts.
5. Demonstrate an understanding of program development, delivery and evaluation pertaining to human development and family relationships.
6. Access scholarly sources of information and critically evaluate the quality of empirical research pertaining to human development and family relationships.
7. Demonstrate an understanding of theories, methods and principles of research pertaining to human development and family relationships.
8. Effectively communicate their ideas in oral presentations and written papers.
9. Demonstrate proficiency in developmental and family research methods and relevant statistical analyses.
10. Independently complete a master's thesis or master's project that reflects an understanding of the interrelationship between theory, research, and practice.
11. Recognize the unique strengths and needs of individuals and families.
12. Apply knowledge of human development and family relationships through involvement with and study of diverse domestic and international populations.
13. Identify opportunities to make a contribution in the field of human development and family studies.
14. Demonstrate knowledge of professional organizations in the field of human development and family studies.
15. Define a specific focus area of interest within the field of human development and family studies, and utilize course assignments and independent learning opportunities to develop and demonstrate expertise in this area.
16. Demonstrate leadership skills through participation in classroom learning activities and taking initiative for expanding one's own learning.
17. Identify opportunities for advanced training and certification in human development and family studies and related professions.
18. Identify opportunities for employment in human development and family studies and related professions.

## Program Requirements

### Major Requirements

Code	Title	Credit Hours
<b>Major Requirements</b>		
EPSY 65523	LIFE SPAN DEVELOPMENT	3
EVAL 65510	STATISTICS I FOR EDUCATIONAL SERVICES	3
EVAL 65511	RESEARCH IN EDUCATIONAL SERVICES	3
HDFS 64023	FAMILY THEORIES AND PROCESSES	3

HDFS 64024	FAMILY LIFE EDUCATION	3
HDFS 64026	PROFESSIONAL ISSUES IN HUMAN DEVELOPMENT AND FAMILY STUDIES	2
Suggested Focus Area Electives, choose from the following:		9
ARCH 55640	DEVELOPING ENVIRONMENTS FOR OLDER ADULTS	
BSCI 50020	BIOLOGY OF AGING	
GERO 54030	ADULT DEVELOPMENT AND AGING	
GERO 61191	INTERDISCIPLINARY SEMINAR IN GERONTOLOGY	
HDFS 54020	ADOLESCENT DEVELOPMENT	
HDFS 54023	BUILDING FAMILY STRENGTHS	
HDFS 54028	PARENT-CHILD RELATIONSHIPS	
HDFS 54029	FAMILY POLICY	
HDFS 54037	POSITIVE YOUTH DEVELOPMENT	
HDFS 54038	PROFESSIONAL CHILD AND YOUTH WORK PRACTICE	
HDFS 54039	BEREAVEMENT, TRAUMA AND OTHER LOSSES	
HDFS 54092	PRACTICUM IN HUMAN DEVELOPMENT AND FAMILY STUDIES	
HDFS 64027	EARLY ADOLESCENCE	
PHIL 50005	HEALTH CARE ETHICS	
SOC 52010	DEATH AND DYING	
SOC 62877	SOCIOLOGY OF AGING AND THE LIFE COURSE	
Other related courses with approval of advisor		
Master's Project or Thesis Requirement		6
HDFS 61198	MASTER'S PROJECT <sup>1</sup>	
HDFS 61199	THESIS I <sup>2</sup>	
Minimum Total Credit Hours:		32

<sup>1</sup> The master's project is intended for students who do not plan to continue graduate work beyond the master's degree, and provides the opportunity to approach research and theory in a more applied manner. The presentation and interpretation of original research is not required. However, approval of the intended project by the student's master's project committee is required, as is the successful completion of an oral final examination conducted by the master's project committee.

<sup>2</sup> The thesis is intended for research-oriented students and is designed to provide the opportunity to conduct original research. Approval of a thesis proposal by the student's thesis committee is required, as is the successful completion of an oral final examination conducted by the thesis committee.

## Human Development and Family Studies - Minor

### College of Education Health and Human Services

School of Lifespan Development and Educational Sciences  
405 White Hall  
Kent Campus  
330-672-2294  
www.kent.edu/ehhs/ldes

## Description

The Human Development and Family Studies minor provides students with knowledge of biopsychosocial development, family relationships

and processes across the lifespan. This minor is particularly suitable for students with a major or interest in education, nursing, psychology, sociology, public health, communications, community health education, recreation management and speech pathology and audiology.

### Fully Offered At:

- Geauga Campus
- Kent Campus
- Salem Campus
- Stark Campus

## Admission Requirements

Admission to a minor is open to students declared in a bachelor's degree, the A.A.B. or A.A.S. degree or the A.T.S. degree (not Individualized Program major). Students declared only in the A.A. or A.S. degree or the A.T.S. degree in Individualized Program may not declare a minor. Students may not pursue a minor and a major in the same discipline.

To declare this minor, students must have attempted a minimum 12 credit hours at Kent State and earned a minimum 2.000 overall Kent State GPA. Students who have not attempted 12 credit hours at Kent State will be evaluated for admission based on their high school GPA for new students or transfer GPA for transfer students. Transfer students who have not attempted 12 credit hours of college-level coursework at Kent State and/or other institutions will be evaluated based on both their high school GPA and college GPA.

## Minor Requirements

Code	Title	Credit Hours
<b>Minor Requirements</b>		
HDFS 24011	INTERPERSONAL RELATIONSHIPS AND FAMILIES (DIVD)	3
Development Electives, choose from the following:		6
GERO 14029	INTRODUCTION TO GERONTOLOGY (DIVD) (KSS)	
GERO 40656	PSYCHOLOGY OF AGING	
HDFS 24012	CHILD DEVELOPMENT	
HDFS 24013	EARLY ADOLESCENCE	
HDFS 44020	ADOLESCENT DEVELOPMENT <sup>1</sup>	
Minor Electives, choose from the following:		9
HDFS 24014	BRIDGING CROSS-NATIONAL RELATIONSHIPS FOR INDIVIDUALS AND FAMILIES	
HDFS 34031	CULTURAL DIVERSITY:IMPLICATIONS FOR THE HELPING PROFESSIONS	
HDFS 42092	HUMAN DEVELOPMENT AND FAMILY STUDIES STUDY AWAY EXPERIENCE (ELR)	
HDFS 44021	FAMILY INTERVENTION ACROSS THE LIFESPAN <sup>1</sup>	
HDFS 44022	CHANGING ROLES OF MEN AND WOMEN	
HDFS 44023	BUILDING FAMILY STRENGTHS <sup>1</sup>	
HDFS 44028	PARENT-CHILD RELATIONSHIPS <sup>1</sup>	
HDFS 44029	FAMILY POLICY <sup>1</sup>	
HDFS 44032	NONPROFIT FUNDRAISING AND GRANTWRITING	
HDFS 44033	COMMUNITY OUTREACH IN NONPROFIT MANAGEMENT (ELR)	

HDFS 44034	PRINCIPLES AND PRACTICES OF NONPROFIT MANAGEMENT
HDFS 44036	GENERAL CASE MANAGEMENT METHODS <sup>1</sup>
HDFS 44039	BERREAVEMENT, TRAUMA AND OTHER LOSSES

Minimum Total Credit Hours: 18

<sup>1</sup> Course has prerequisites outside of the program requirements, please contact the Department of Lifespan Development and Educational Sciences for special approval.

## Graduation Requirements

Minimum Minor GPA	Minimum Overall GPA
2.000	2.000

- Minimum 6 credit hours in the minor must be upper-division coursework (30000 and 40000 level).
- Minimum 6 credit hours in the minor must be outside of the course requirements for any major or other minor the student is pursuing.
- Minimum 50 percent of the total credit hours for the minor must be taken at Kent State (in residence).

## Program Notes

Students are required to meet with the human development and family studies program coordinator to discuss course selection and procedures for completing the minor.

# Long-Term Care Administration - B.S.

## College of Education Health and Human Services

School of Lifespan Development and Educational Services  
405 White Hall  
Kent Campus  
330-672-2294  
[www.kent.edu/ehhs/ldes](http://www.kent.edu/ehhs/ldes)

## Description

The Bachelor of Science degree in Long-Term Care Administration provides students the education, qualifications and eligibility for state and national licensure eligibility to work as administrators in long-term care settings, including nursing homes, assisted living facilities, retirement communities, congregate living, home-care, adult care centers and hospice care and other long term services and supports.

Students may earn the certified dementia practitioner (CDP) credential prior to graduation. After graduation and passing of the state and national licensure exams for nursing home administration (NHA), graduates working in the long-term care field will qualify to apply for the health services executive (HSE) credential.

## Fully Offered At:

- Hybrid (online/on-ground)
- Kent Campus

## Accreditation

The B.S. degree in Long-Term Care Administration is accredited by the National Association of Long Term Care Administrator Boards (NAB) and

approved by the Ohio Board of Executives of Long-Term Services and Supports (BELTSS).

## Admission Requirements

The university affirmatively strives to provide educational opportunities and access to students with varied backgrounds, those with special talents and adult students who graduated from high school three or more years ago.

**Freshman Students on the Kent Campus:** The freshman admission policy on the Kent Campus is selective. Admission decisions are based upon the following: cumulative grade point average, ACT and/or SAT scores, strength of high school college preparatory curriculum and grade trends. The Admissions Office at the Kent Campus may defer the admission of students who do not meet admissions criteria but who demonstrate areas of promise for successful college study. Deferred applicants may begin their college coursework at one of seven regional campuses of Kent State University. For more information on admissions, including additional requirements for some academic programs, visit the admissions website for new freshmen.

**Freshman Students on the Regional Campuses:** Kent State campuses at Ashtabula, East Liverpool, Geauga, Salem, Stark, Trumbull and Tuscarawas, as well as the Regional Academic Center in Twinsburg, have open enrollment admission for students who hold a high school diploma, GED or equivalent.

**English Language Proficiency Requirements for International Students:** All international students must provide proof of English language proficiency (unless they meet specific exceptions) by earning a minimum 525 TOEFL score (71 on the Internet-based version), minimum 75 MELAB score, minimum 6.0 IELTS score or minimum 48 PTE score, or by completing the ESL level 112 Intensive Program. For more information on international admission, visit the Office of Global Education's admission website.

**Transfer, Transitioning and Former Students:** For more information about admission criteria for transfer, transitioning and former students, please visit the admissions website.

## Program Learning Outcomes

Graduates of this program will be able to:

1. Demonstrate an understanding of the provision of customer care and services
2. Demonstrate an understanding of departmental operations and how each area interacts with other areas in the provision of care and services
3. Demonstrate knowledge of management, leadership, legal and regulatory requirements and the administrator's perspective on how to successfully oversee operations.
4. Effectively communicate ideas in oral presentations and written papers.
5. Identify opportunities for employment in long-term care services and supports.

## University Requirements

All students in a bachelor's degree program at Kent State University must complete the following university requirements for graduation.

**NOTE:** University requirements may be fulfilled in this program by specific course requirements. Please see Program Requirements for details.

Destination Kent State: First Year Experience	1
Course is not required for students with 25 transfer credits, excluding College Credit Plus, or age 21+ at time of admission.	
Diversity Domestic/Global (DIVD/DIVG)	2 courses
Students must successfully complete one domestic and one global course, of which one must be from the Kent Core.	
Experiential Learning Requirement (ELR)	varies
Students must successfully complete one course or approved experience.	
Kent Core (see table below)	36-37
Writing-Intensive Course (WIC)	1 course
Students must earn a minimum C grade in the course.	
Upper-Division Requirement	39 (or 42)
Students must successfully complete 39 upper-division (numbered 30000 to 49999) credit hours to graduate. Students in a B.A. and/or B.S. degree in the College of Arts and Sciences must complete 42 upper-division credit hours.	
Total Credit Hour Requirement	120
Some bachelor's degrees require students to complete more than 120 credit hours.	

## Kent Core Requirements

Kent Core Composition (KCOMP)	6
Kent Core Mathematics and Critical Reasoning (KMCR)	3
Kent Core Humanities and Fine Arts (KHUM/KFA) (min one course each)	9
Kent Core Social Sciences (KSS) (must be from two disciplines)	6
Kent Core Basic Sciences (KBS/KLAB) (must include one laboratory)	6-7
Kent Core Additional (KADL)	6
<b>Total Credit Hours:</b>	<b>36-37</b>

## Program Requirements

### Major Requirements

Code	Title	Credit Hours
<b>Major Requirements (courses count in major GPA)</b>		
ARCH 45640	DEVELOPING ENVIRONMENTS FOR OLDER ADULTS	3
BMRT 11009	INTRODUCTION TO MANAGEMENT TECHNOLOGY	3
or MGMT 24163	PRINCIPLES OF MANAGEMENT	
BMRT 21000	BUSINESS LAW AND ETHICS I	3
or FIN 26074	LEGAL ENVIRONMENT OF BUSINESS	
BMRT 36415	CUSTOMER SERVICE	3
COMM 20001	INTERPERSONAL COMMUNICATION	3
or COMM 25863	BUSINESS AND PROFESSIONAL COMMUNICATION	
or COMM 36501	COMMUNICATION IN HEALTH CARE	
HDFS 44018	PROFESSIONAL DEVELOPMENT IN HUMAN DEVELOPMENT/FAMILY STUDIES	3
HDFS 44039	BERREAVEMENT, TRAUMA AND OTHER LOSSES	3
or SOC 42010	DEATH AND DYING	
HM 13022	SANITATION AND SAFETY PRINCIPLES AND PRACTICES	3

HRM 34180	HUMAN RESOURCE MANAGEMENT	3
LTCA 43092	INTERNSHIP IN NURSING HOME ADMINISTRATION/HEALTH SERVICES EXECUTIVE (ELR) (min B- grade)	9
LTCA 43192	INTERNSHIP IN NURSING HOME ADMINISTRATION/HEALTH SERVICES EXECUTIVE (ELR) (min B- grade)	9
LTCA 44032	LONG-TERM CARE ADMINISTRATION I (min B- grade)	3
LTCA 44033	LONG-TERM CARE ADMINISTRATION II (min B- grade)	3
MGMT 34165	DYNAMICS OF LEADERSHIP	3
PH 30015	UNITED STATES HEALTH CARE SYSTEM	3
PH 30020	FUNDAMENTALS OF HEALTH PRIVACY	1
PH 30025	FUNDAMENTALS OF HEALTHCARE COMPLIANCE	1

### Additional Requirements (courses do not count in major GPA)

ACCT 23020	INTRODUCTION TO FINANCIAL ACCOUNTING	3
GERO 14029	INTRODUCTION TO GERONTOLOGY (DIVD) (KSS)	3
GERO 40656	PSYCHOLOGY OF AGING	3
GERO 44030	ADULT DEVELOPMENT AND AGING (WIC) <sup>1</sup>	3
HDFS 24011	INTERPERSONAL RELATIONSHIPS AND FAMILIES (DIVD)	3
HED 14020	MEDICAL TERMINOLOGY	3
NUTR 23511	SCIENCE OF HUMAN NUTRITION (KBS)	3
PSYC 11762	GENERAL PSYCHOLOGY (DIVD) (KSS)	3
RPTM 36010	RECREATION, LEISURE AND AGING	3
SOC 12050	INTRODUCTION TO SOCIOLOGY (DIVD) (KSS)	3
UC 10097	DESTINATION KENT STATE: FIRST YEAR EXPERIENCE	1

Kent Core Composition	6
Kent Core Mathematics and Critical Reasoning	3
Kent Core Humanities and Fine Arts (minimum one course from each)	9
Kent Core Basic Sciences (must include one laboratory)	3-4
Kent Core Additional	3
General Electives (total credit hours depends on earning 120 credit hours, including 39 upper-division credit hours)	6
Minimum Total Credit Hours:	120

<sup>1</sup> A minimum C grade must be earned to fulfill the writing-intensive requirement.

## Graduation Requirements

Minimum Major GPA	Minimum Overall GPA
2.500	2.000

## Roadmap

This roadmap is a recommended semester-by-semester plan of study for this major. However, courses designated as critical (!) must be completed in the semester listed to ensure a timely graduation.

Semester One	Credits
COMM 20001 INTERPERSONAL COMMUNICATION	3
or COMM 25863 BUSINESS AND PROFESSIONAL COMMUNICATION	
or COMM 36501 COMMUNICATION IN HEALTH CARE	
GERO 14029 INTRODUCTION TO GERONTOLOGY (DIVD) (KSS)	3



NUTR 23511	SCIENCE OF HUMAN NUTRITION (KBS)	3
SOC 12050	INTRODUCTION TO SOCIOLOGY (DIVD) (KSS)	3
UC 10097	DESTINATION KENT STATE: FIRST YEAR EXPERIENCE	1

Kent Core Requirement		3
Credit Hours		16

**Semester Two**

HED 14020	MEDICAL TERMINOLOGY	3
PSYC 11762	GENERAL PSYCHOLOGY (DIVD) (KSS)	3

Kent Core Requirement		3
Kent Core Requirement		3
Kent Core Requirement		3
Credit Hours		15

**Semester Three**

ACCT 23020	INTRODUCTION TO FINANCIAL ACCOUNTING	3
BMRT 11009	INTRODUCTION TO MANAGEMENT or TECHNOLOGY	3

MGMT 24163	or PRINCIPLES OF MANAGEMENT	
HDFS 24011	INTERPERSONAL RELATIONSHIPS AND FAMILIES (DIVD)	3

Kent Core Requirement		3
Kent Core Requirement		3
Credit Hours		15

**Semester Four**

HM 13022	SANITATION AND SAFETY PRINCIPLES AND PRACTICES	3
HRM 34180	HUMAN RESOURCE MANAGEMENT	3

Kent Core Requirement		3
Kent Core Requirement		3
General Electives		3
Credit Hours		15

**Semester Five**

BMRT 21000	BUSINESS LAW AND ETHICS I or FIN 26074 or LEGAL ENVIRONMENT OF BUSINESS	3
BMRT 36415	CUSTOMER SERVICE	3

GERO 40656	PSYCHOLOGY OF AGING	3
PH 30015	UNITED STATES HEALTH CARE SYSTEM	3

PH 30020	FUNDAMENTALS OF HEALTH PRIVACY	1
PH 30025	FUNDAMENTALS OF HEALTHCARE COMPLIANCE	1

General Elective		3
Credit Hours		17

**Semester Six**

ARCH 45640	DEVELOPING ENVIRONMENTS FOR OLDER ADULTS	3
GERO 44030	ADULT DEVELOPMENT AND AGING (WIC)	3

HDFS 44018	PROFESSIONAL DEVELOPMENT IN HUMAN DEVELOPMENT/FAMILY STUDIES	3
HDFS 44039	BERREAVEMENT, TRAUMA AND OTHER LOSSES or DEATH AND DYING	3

SOC 42010		
LTCA 44032	LONG-TERM CARE ADMINISTRATION I	3

MGMT 34165	DYNAMICS OF LEADERSHIP	3
Credit Hours		18

**Semester Seven**

LTC 43092	INTERNSHIP IN NURSING HOME ADMINISTRATION/HEALTH SERVICES EXECUTIVE (ELR)	9
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RPTM 36010	RECREATION, LEISURE AND AGING	3
Credit Hours		12

**Semester Eight**

LTC 43192	INTERNSHIP IN NURSING HOME ADMINISTRATION/HEALTH SERVICES EXECUTIVE (ELR)	9
LTC 44033	LONG-TERM CARE ADMINISTRATION II	3

Credit Hours		12
Minimum Total Credit Hours:		120

## Mild to Moderate Special Education - Minor

### College of Education Health and Human Services

School of Lifespan Development and Educational Sciences

405 White Hall

Kent Campus

330-672-2294

[www.kent.edu/ehhs/ldes](http://www.kent.edu/ehhs/ldes)

## Description

The Mild to Moderate Special Education minor provides students with valuable knowledge related to meeting the special educational needs of students with mild to moderate disabilities in schools. Mild to moderate disabilities include learning disabilities, ADHD, emotional and behavioral disorders, mild intellectual disabilities, and autism spectrum disorders without accompanying intellectual impairment.

The minor allows students to learn effective practices for differentiating instruction, behavior management, collaboration and supporting students with mild to moderate disabilities in general education classrooms.

This minor is particularly relevant for students seeking to work in the K-12 academic environment, including those with a major or interest in education, special education, psychology, public health, sociology and human development and family studies.

## Fully Offered At:

- Kent Campus

## Admission Requirements

Admission to a minor is open to students declared in a bachelor's degree, the A.A.B. or A.A.S. degree or the A.T.S. degree (not Individualized Program major). Students declared only in the A.A. or A.S. degree or the A.T.S. degree in Individualized Program may not declare a minor. Students may not pursue a minor and a major in the same discipline.

Students declared in the Special Education major, Mild/Moderate concentration, are not permitted to declare this minor.

To declare this minor, students must have attempted a minimum 12 credit hours at Kent State and earned a minimum 2.000 overall Kent State GPA. Students who have not attempted 12 credit hours at Kent State will be evaluated for admission based on their high school GPA for new students or transfer GPA for transfer students. Transfer students who have not attempted 12 credit hours of college-level coursework at Kent State and/or other institutions will be evaluated based on both their high school GPA and college GPA.

## Minor Requirements

Code	Title	Credit Hours
<b>Minor Requirements (min C grade is required in all courses)</b>		
SPED 23000	INTRODUCTION TO EXCEPTIONALITIES (DIVD)	3
SPED 24000	INCLUSIVE PRACTICES	3
SPED 43010	FAMILY AND PROFESSIONAL COLLABORATION	3
SPED 43030	APPLIED BEHAVIOR ANALYSIS I: THEORY AND TECHNIQUES	3
SPED 43050	CHARACTERISTICS OF STUDENTS WITH MILD/MODERATE INTERVENTION NEEDS	3
SPED 43062	CURRICULUM METHODS MILD/MODERATE INTERVENTION	3
Minimum Total Credit Hours:		18

## Graduation Requirements

Minimum Minor GPA	Minimum Overall GPA
3.000	2.000

- Minimum C grade is required in all courses.
- Minimum 6 credit hours in the minor must be upper-division coursework (30000 and 40000 level).
- Minimum 6 credit hours in the minor must be outside of the course requirements for any major or other minor the student is pursuing.
- Minimum 50 percent of the total credit hours for the minor must be taken at Kent State (in residence).

## Nonprofit Studies - Minor

**College of Education Health and Human Services**  
 School of Lifespan Development and Educational Sciences  
 405 White Hall  
 Kent Campus  
 330-672-2294  
[www.kent.edu/ehhs/ldes](http://www.kent.edu/ehhs/ldes)

## Description

The Nonprofit Studies minor prepares students for careers in a variety of nonprofit organizations at the local, state, national and international level. The curriculum provides students with knowledge and competencies in areas such as grant writing and fundraising, mission and vision, advocacy and lobbying, risk management, board development, program planning, leadership and ethics, human resource development, youth and adult development, marketing, financial management and non-profit management. Students gain real world experience with local nonprofit agencies through a practicum experience.

The Nonprofit Studies minor may be beneficial for students pursuing any major.

### Fully Offered At:

- Geauga Campus
- Kent Campus
- Stark Campus

## Admission Requirements

Admission to a minor is open to students declared in a bachelor's degree, the A.A.B. or A.A.S. degree or the A.T.S. degree (not Individualized Program major). Students declared only in the A.A. or A.S. degree or the A.T.S. degree in Individualized Program may not declare a minor. Students may not pursue a minor and a major in the same discipline.

To declare this minor, students must have attempted a minimum 12 credit hours at Kent State and earned a minimum 2.000 overall Kent State GPA. Students who have not attempted 12 credit hours at Kent State will be evaluated for admission based on their high school GPA for new students or transfer GPA for transfer students. Transfer students who have not attempted 12 credit hours of college-level coursework at Kent State and/or other institutions will be evaluated based on both their high school GPA and college GPA.

## Program Learning Outcomes

Graduates of this program will be able to:

1. Describe the principles and practices of nonprofit management.
2. Construct a grant proposal appropriate for submission to a grant funder in the nonprofit sector.
3. Apply community outreach skills through successful completion of a community inventory as well as practicum and field experiences.

## Minor Requirements

Code	Title	Credit Hours
<b>Minor Requirements</b>		
HDFS 44032	NONPROFIT FUNDRAISING AND GRANTWRITING	3
HDFS 44033	COMMUNITY OUTREACH IN NONPROFIT MANAGEMENT (ELR)	3
HDFS 44034	PRINCIPLES AND PRACTICES OF NONPROFIT MANAGEMENT	3
Methods/Analysis Elective, choose from the following:		3-4
ACCT 23020	INTRODUCTION TO FINANCIAL ACCOUNTING	
ANTH 38490	QUANTITATIVE ANTHROPOLOGY	
COMM 30000	COMMUNICATION RESEARCH METHODS	
POL 30001	RESEARCH METHODS (ELR)	
PSYC 21621	QUANTITATIVE METHODS IN PSYCHOLOGY I	
SOC 32220 & SOC 32221	DATA ANALYSIS and DATA ANALYSIS LABORATORY	
Internship/Practicum Elective, choose from the following: <sup>1</sup>		3
ATTR 45292	INTERNSHIP IN ATHLETIC TRAINING I (ELR)	
BMRT 21092	INTERNSHIP IN MANAGEMENT TECHNOLOGY (ELR)	
BUS 40192	INTERNSHIP IN BUSINESS (ELR)	
COMM 45092	INTERNSHIP IN COMMUNICATION STUDIES (ELR)	
CRIM 46792	INTERNSHIP (ELR)	
EDST 44092	PRACTICUM IN EDUCATIONAL STUDIES (ELR)	
ENG 41096	INDIVIDUAL INVESTIGATION	
ENG 49095	SENIOR SPECIAL TOPICS	
GERO 44092	PRACTICUM IN GERONTOLOGY (ELR)	
HDFS 44092	PRACTICUM IN HUMAN DEVELOPMENT AND FAMILY STUDIES (ELR)	
HDFS 44192	INTERNSHIP IN HUMAN DEVELOPMENT AND FAMILY STUDIES-CASE MANAGEMENT I (ELR)	

HDFS 44292	INTERNSHIP IN HUMAN DEVELOPMENT AND FAMILY STUDIES-CASE MANAGEMENT II (ELR)
HED 44092	INTERNSHIP IN COMMUNITY HEALTH EDUCATION (ELR)
IGST 40192	INTERNSHIP IN INTEGRATIVE STUDIES (ELR)
IHS 44092	PRACTICUM IN INTEGRATED HEALTH STUDIES (ELR)
LTCA 43092	INTERNSHIP IN NURSING HOME ADMINISTRATION/HEALTH SERVICES EXECUTIVE (ELR)
LTCA 43192	INTERNSHIP IN NURSING HOME ADMINISTRATION/HEALTH SERVICES EXECUTIVE (ELR)
PACS 35092	INTERNSHIP IN PEACE AND CONFLICT STUDIES (ELR)
PH 40196	INDIVIDUAL INVESTIGATION IN PUBLIC HEALTH
PH 44092	INTERNSHIP IN PUBLIC HEALTH (ELR)
POL 40980	COLUMBUS PROGRAM IN STATE ISSUES (ELR)
POL 40981	WASHINGTON PROGRAM IN NATIONAL ISSUES (ELR)
POL 40992	INTERNSHIP (ELR)
RPTM 46092	INTERNSHIP IN RECREATION (ELR)
SOC 42092	INTERNSHIP IN SOCIOLOGY (ELR)
SPAD 25092	PRACTICUM I IN SPORT ADMINISTRATION (ELR)
SPAD 35092	PRACTICUM II IN SPORT ADMINISTRATION (ELR)
SPAD 45092	INTERNSHIP IN SPORT ADMINISTRATION (ELR)
THEA 41992	THEATRE PRODUCTION INTERNSHIP (ELR)
THEA 42292	PRACTICUM II: THEATRE MANAGEMENT (ELR)
WMST 40992	PRACTICUM IN WOMEN'S STUDIES (ELR)
Any other internship or practicum course	
Development Elective, choose from the following: <span style="float: right;">3</span>	
COMM 36505	COMMUNICATION, AGING AND CULTURE
COMM 46605	COMMUNICATION ACROSS THE LIFESPAN (DIVD)
EPSY 29525	EDUCATIONAL PSYCHOLOGY
GERO 14029	INTRODUCTION TO GERONTOLOGY (DIVD) (KSS)
GERO 40656	PSYCHOLOGY OF AGING
GERO 44030	ADULT DEVELOPMENT AND AGING (WIC)
HDFS 24012	CHILD DEVELOPMENT
HDFS 24013	EARLY ADOLESCENCE
HDFS 44020	ADOLESCENT DEVELOPMENT
NURS 20950	HUMAN GROWTH AND DEVELOPMENT FOR HEALTH PROFESSIONALS
PH 30005	SOCIAL AND BEHAVIORAL SCIENCE THEORIES IN PUBLIC HEALTH
PSYC 20651	CHILD PSYCHOLOGY (DIVD) (KSS)
PSYC 30651	ADOLESCENT PSYCHOLOGY
RPTM 36010	RECREATION, LEISURE AND AGING
SOC 42421	CHILDHOOD IN SOCIETY
SOC 42478	ADOLESCENCE IN SOCIETY
SOC 42879	AGING IN SOCIETY (DIVD)

Minimum Total Credit Hours:

18

<sup>1</sup> An internship/practicum is required at a non-profit organization; students must make prior arrangements with the program director. Before taking the internship/practicum course, students must have taken (or will take concurrently) HDFS 44033 and HDFS 44034.

## Graduation Requirements

Minimum Minor GPA	Minimum Overall GPA
2.250	2.000

- After declaring the Nonprofit studies minor, students are required to meet with the program director to discuss course selection and procedures for completing the minor.
- Minimum 6 credit hours in the minor must be upper-division coursework (30000 and 40000 level).
- Minimum 6 credit hours in the minor must be outside of the course requirements for any major or other minor the student is pursuing.
- Minimum 50 percent of the total credit hours for the minor must be taken at Kent State (in residence).

## Nursing Home Administration - Graduate Certificate

### College of Education Health and Human Services

School of Lifespan Development and Educational Sciences

405 White Hall

Kent Campus

330-672-2294

[www.kent.edu/ehhs/ldes](http://www.kent.edu/ehhs/ldes)

## Description

The Nursing Home Administration graduate certificate prepares individuals to apply managerial principles to the administration of nursing homes, assisted living facilities, adult day care, home health services, senior living communities, retirement communities and other long-term services and supports. Individualized coursework may include instruction in social and clinical aspects of aging, health care delivery systems, long-term care administration, aging policy and government programs, ethics, business management, financial management, human resource management, marketing and applicable laws and regulations. Additionally, the program prepares graduates for the national and state licensure examinations required in the State of Ohio to become a Licensed Nursing Home Administrator (LNHA). Once licensed, individuals are qualified to lead organizations in the field of long-term care services and supports. It is particularly appropriate for graduate students from any discipline who are interested in long-term care, but also for individuals currently working in the long-term care field who wish to advance their career as an executive of long-term care services and supports.

Students should be able to complete the certificate within one academic year or three semesters. The certificate includes a practicum as required by the State of Ohio in a skilled nursing facility.

## Fully Offered At:

- Kent Campus
- Stark Campus

## Admission Requirements

- Bachelor's degree from an accredited college or university
- Official transcript(s)
- Two letters of recommendation
- Minimum 3.00 GPA
- Questions in Anticipation of Licensure form
- Statement of personal goals and professional objectives
- Documented experience and/or coursework in human development and family studies related area

For more information about graduate admission, please visit the Graduate Studies website.

## Program Requirements

### Certificate Requirements

Code	Title	Credit Hours
<b>Certificate Requirements</b>		
LTCA 54032	LONG-TERM CARE ADMINISTRATION I	3
LTCA 63092	PRACTICUM IN NURSING HOME ADMINISTRATION I	6
LTCA 63192	PRACTICUM IN NURSING HOME ADMINISTRATION II	6
Certificate Electives, choose from the following:		3
ARCH 55640	DEVELOPING ENVIRONMENTS FOR OLDER ADULTS	
GERO 61191	INTERDISCIPLINARY SEMINAR IN GERONTOLOGY	
HDFS 54039	BEREAVEMENT, TRAUMA AND OTHER LOSSES	
HPM 53003	HEALTH CARE SYSTEMS	
PADM 60574	STRATEGIC PLANNING	
SOC 52010	DEATH AND DYING	
Related Course with Advisor Approval		
Minimum Total Credit Hours:		18

<sup>1</sup> LTCA 54032 recommended to be taken prior to LTCA 63092 and LTCA 63192.

<sup>2</sup> Practicum enrollment by permission only. LTCA 63092 and LTCA 63192 must be completed consecutively.

## Graduation Requirements

Minimum Certificate GPA	Minimum Overall GPA
3.000	

- Minimum 3.000 GPA must be maintained throughout the program.
- Students may be required to successfully complete a 40 hour volunteer experience at a skilled nursing facility if missing from their current academic or work experience.

## Program Notes

- State/Federal background checks may be required for some practicum/internship sites. Results indicating one of the disqualifying offenses, whether expunged or current, may result in the inability to be placed at a skilled nursing facility for the required practicum credit hours and may prevent the applicant from applying for licensure required to operate a skilled nursing facility or assisted living facility. Contact Ohio Board of Executives of Long Term Services and Supports (BELTSS) for licensure eligibility with a disqualifying offense. Please see faculty advisor for more information.

## School Counseling - M.Ed.

**College of Education Health and Human Services**  
School of Lifespan Development and Educational Sciences  
405 White Hall  
Kent Campus  
330-672-2294  
www.kent.edu/ehhs/ldes

## Description

The Master of Education degree in School Counseling prepares students for employment as professional school counselors in K-12 schools.

This program is designed to fulfill the educational requirements for licensure as a Licensed School Counselor in the state of Ohio. The program may be pursued on a part-time or full-time basis, although some full-time study is urged.

State and Federal background checks are required for field-based experiences. See the Practicum and Internship Coordinator for more information.

## Fully Offered At:

- Kent Campus

## Accreditation

Council for the Accreditation of Counseling and Related Educational Programs (CACREP)

## Admission Requirements

- Bachelor's degree from an accredited college or university for unconditional admission
- Minimum 3.000 undergraduate GPA on a 4.000 point scale for unconditional admission
- Official transcript(s)
- Goal statement
- Questions in Anticipation of Licensure form
- Two letters of recommendation
- Supplemental Interview Form
- Interview
- English language proficiency - all international students must provide proof of English language proficiency (unless they meet specific exceptions) by earning one of the following:
  - Minimum 550 TOEFL PBT score (paper-based version)
  - Minimum 79 TOEFL IBT score (Internet-based version)

- Minimum 77 MELAB score
- Minimum 6.5 IELTS score
- Minimum 58 PTE score
- Minimum 110 Duolingo English Test score

For more information about graduate admissions, please visit the Graduate Studies admission website. For more information on international admission, visit the Office of Global Education's admission website.

## Program Learning Outcomes

Graduates of this program will be able to:

1. Demonstrate knowledge in assessment, groupwork, career development, helping relationships, human growth and development, social and cultural diversity, research and program evaluation, and professional orientation and ethical practice.
2. Meet the academic components required by the Ohio Department of Education to be eligible to sit for the current licensure assessments.
3. Understand legal and ethical standards and practice in a legal and ethical manner.
4. Understand and demonstrate multicultural responsiveness.
5. Demonstrate a strong counselor identity.
6. Demonstrate strong skills in identifying affect, behavior and cognition that contributes to mental health issues.
7. Understand and demonstrate sound counseling skills and techniques within a theoretical framework in both individual and group counseling.
8. Demonstrate valuable skills in conceptualizing student success and growth.
9. Understand the importance of research in advancing the counseling profession including how to critique research to inform counseling practice.
10. Work with crisis, trauma, suicide and at-risk students.
11. Design and evaluate school counseling programming.

## Program Requirements

### Major Requirements

Code	Title	Credit Hours
<b>Major Requirements</b>		
CES 65511	RESEARCH IN COUNSELING	3
CES 67530	COUNSELING THEORIES	3
CES 67531	COUNSELING SKILLS AND TECHNIQUES	3
CES 67580	MULTICULTURAL COUNSELING	3
CES 67820	GROUP WORK:THEORY AND TECHNIQUES	3
CES 68011	FOUNDATIONS OF SCHOOL COUNSELING	3
CES 68066	COUNSELING ADOLESCENTS	3
CES 68067	COUNSELING CHILDREN	3
CES 68068	SCHOOL COUNSELING PROGRAM MANAGEMENT AND LEADERSHIP	3
CES 68069	ORIENTATION AND ETHICS: SCHOOL COUNSELING	3
CES 68126	INTRODUCTION TO ASSESSMENT IN COUNSELING	3
CES 68182	CAREER COUNSELING	3

CES 68392	SCHOOL COUNSELING PRACTICUM	3
CES 68192	INTERNSHIP I: SCHOOL COUNSELING	3
CES 68292	INTERNSHIP II: SCHOOL COUNSELING	3
EPSY 65523	LIFE SPAN DEVELOPMENT	3
Minimum Total Credit Hours:		48

## Graduation Requirements

- The M.Ed. degree curriculum is a minimum of 48 credit hours, including a 600 clock-hour internship.

## Licensure Information

Candidates seeking Ohio licensure are required to pass specific assessments in order to apply for licensure. Students should consult their advisors for specific program requirements and refer to the Ohio Department of Education-Educator Preparation website for more information on assessments specific to licensure type.

## School Psychology - Ed.S.

**College of Education Health and Human Services**  
 School of Lifespan Development and Educational Sciences  
 405 White Hall  
 Kent Campus  
 330-672-2294  
[www.kent.edu/ehhs/ldes](http://www.kent.edu/ehhs/ldes)

## Description

The Educational Specialist degree in School Psychology is committed to a scientist-practitioner model of training, which conceptualizes school psychologists as data-oriented problem solvers. The program operates from an eco-behavioral orientation and emphasizes the delivery of school psychological services from a consultative framework to prevent and remediate learning, behavioral and social-emotional concerns in individuals from birth to 22 years.

Students in the program gain competencies, not only in the provision of services to individual children in schools, but also in the promotion and implementation of systemic educational reform. Graduates of the Ed.S. degree are highly prepared to be leaders and innovators of comprehensive support services in a variety of educational settings.

Students who do not hold a Master's degree in School Psychology must apply to the School Psychology M.Ed. program. Students will matriculate into the Ed.S. degree following completion of the Kent State University School Psychology M.Ed. degree as described in the University Catalog.

## Fully Offered At:

- Kent Campus

## Accreditation

National Association of School Psychologists (NASP)

## Admission Requirements

- Master's degree in School Psychology from a NASP-approved college or university for unconditional admission. unconditional admission<sup>1</sup>



- Minimum 3.000 graduate GPA on a 4.000 point scale (minimum graduate 3.250 GPA is recommended) for unconditional admission
- Official transcript(s)
- GRE scores
- Résumé or vita
- Goal statement
- Sample of written work
- School Psychology Supplemental Data form (online document)
- Questions in Anticipation of Licensure form
- Two letters of recommendation
- Interview
- English language proficiency - all international students must provide proof of English language proficiency (unless they meet specific exceptions) by earning one of the following:
  - Minimum 550 TOEFL PBT score (paper-based version)
  - Minimum 79 TOEFL IBT score (Internet-based version)
  - Minimum 77 MELAB score
  - Minimum 6.5 IELTS score
  - Minimum 58 PTE score
  - Minimum 110 Duolingo English Test score

Program faculty evaluate applicants' background, evidence of high scholastic achievement, a high level of verbal ability and positive letters of recommendation. For more information about graduate admissions, please visit the Graduate Studies admission website. For more information on international admission, visit the Office of Global Education's admission website.

<sup>1</sup> Students who do not have a prior NASP-approved master's degree must apply to the Kent State University School Psychology M.Ed. program. Students' applications will still be reviewed for admission into the Ed.S. program. If admitted, the student will matriculate into the Kent State University School Psychology Ed.S. program following successful completion of the M.Ed. in school psychology within the first year.

## Program Learning Outcomes

Graduates of this program will be able to:

1. Demonstrate knowledge and skills associated with the National Association of School Psychologist's (NASP) Domains of School Psychology Training and Practice, which allows them to gain the credential of 'school psychologist' at the state and national levels (i.e., through both the Ohio Department of Education and NASP's national certification program [Nationally Certified School Psychologist, NCSP]).
2. Demonstrate positive impact on students in applied settings as related to assessment, planning/supports and implementation of interventions related to academic and behavioral needs as identified by key stakeholders in a variety of internship placement settings (i.e., within public schools).

## Program Requirements

### Major Requirements

Code	Title	Credit Hours
<b>Major Requirements</b>		
CI 77319	DIAGNOSIS AND REMEDIATION IN READING	3
SPED 63101	ADMINISTRATION AND SUPERVISION IN SPECIAL EDUCATION	3
or EDLE 76542	PRINCIPLES AND TECHNIQUES OF SUPERVISION AND SPECIAL EDUCATION	
SPSY 70162	DEVELOPMENTAL ASSESSMENT	3
SPSY 77792	PRACTICUM II IN SCHOOL PSYCHOLOGY <sup>1</sup>	6
SPSY 77926	INTRODUCTION TO DIGITAL CITIZENSHIP FOR SCHOOL PSYCHOLOGISTS	1
SPSY 77928	GROUP COUNSELING TECHNIQUES FOR REHABILITATION COUNSELORS AND SCHOOL PSYCHOLOGISTS	3
SPSY 77965	INSTRUCTIONAL INTERVENTIONS FOR SCHOOL PSYCHOLOGISTS	3
SPSY 77970	LEGAL, ETHICAL AND PROFESSIONAL ISSUES IN SCHOOL PSYCHOLOGY	3
SPSY 77971	ISSUES AND APPROACHES IN SCHOOL PSYCHOLOGY <sup>2</sup>	6
SPSY 77973	CONSULTATION IN THE HELPING PROFESSIONS	3
SPSY 77975	HOME, SCHOOL AND COMMUNITY COLLABORATION	3
SPSY 77992	SPECIALIST INTERNSHIP IN SCHOOL PSYCHOLOGY <sup>3</sup>	12
Choose from the following:		6
EPSY 75520	CHILD AND ADOLESCENT DEVELOPMENT	
or EPSY 75523	LIFE SPAN DEVELOPMENT	
EVAL 75510	STATISTICS I FOR EDUCATIONAL SERVICES	
SPSY 77912	ROLE OF THE SCHOOL PSYCHOLOGIST	

Minimum Total Credit Hours: 55

- <sup>1</sup> Students must complete SPSY 77792 for two semesters, 3 credit hours each.
- <sup>2</sup> SPSY 77971 is required for students who complete an internship in the State of Ohio. If taken, students must complete two semesters, 3 credit hours each, for a total of 6 credit hours. All other students complete 6 credits of faculty-approved coursework.
- <sup>3</sup> Student must complete SPSY 77992 for two semesters, 6 credit hours each. An academic Year internship under supervision of the faculty and a qualified school psychologist in public schools is required. Course requirements need to be successfully completed prior to the internship.

### Graduation Requirements

- Upon admission to the Ed.S. degree program, students will be assigned an advisor.
- Annual State/Federal background checks are required for all field-based experiences.

## Licensure Information

Candidates seeking School Psychologist licensure are required to pass the ETS Praxis II School Psychologist test or the domain specific School Psychology Ohio Assessment for Educators test.

## School Psychology - M.Ed.

### College of Education Health and Human Services

School of Lifespan Development and Educational Sciences  
405 White Hall  
Kent Campus  
330-672-2294  
www.kent.edu/ehhs/ldes

## Description

The Master of Education degree in School Psychology provides a focus on the core principles of school psychological practice. The M.Ed. degree is not considered a terminal degree and is not sufficient for earning the Ohio state license in school psychology.

Additional training beyond the M.Ed. (e.g., an Ed.S. or Ph.D.) is required in order to gain the credential of 'school psychologist' at the state and national levels (i.e., through both the Ohio Department of Education and NASP's national certification program) for licensure and practice in most states.

### Fully Offered At:

- Kent Campus

## Admission Requirements

- Bachelor's degree from an accredited college or university for unconditional admission
- Minimum 3.000 undergraduate GPA on a 4.000 point scale for unconditional admission
- Official transcript(s)
- GRE scores
- Résumé or vita
- Goal statement
- Sample of written work
- School Psychology Supplemental Data form (online document)
- Questions in Anticipation of Licensure form
- Two letters of recommendation
- Interview
- English language proficiency - all international students must provide proof of English language proficiency (unless they meet specific exceptions) by earning one of the following:
  - Minimum 550 TOEFL PBT score (paper-based version)
  - Minimum 79 TOEFL IBT score (Internet-based version)
  - Minimum 77 MELAB score
  - Minimum 6.5 IELTS score
  - Minimum 58 PTE score
  - Minimum 110 Duolingo English Test score

For more information about graduate admissions, please visit the Graduate Studies admission website. For more information on

international admission, visit the Office of Global Education's admission website.

## Program Learning Outcomes

Graduates of this program will be able to:

1. Demonstrate knowledge and skills associated with the National Association of School Psychologist's Domains of School Psychology Training and Practice.

## Program Requirements

### Major Requirements

Code	Title	Credit Hours
<b>Major Requirements</b>		
SPSY 67692	PRACTICUM I IN SCHOOL PSYCHOLOGY <sup>1</sup>	6
SPSY 67920	DIAGNOSIS OF CHILDHOOD DISORDERS IN SCHOOLS	3
SPSY 67929	INDIVIDUAL COUNSELING TECHNIQUES FOR REHABILITATION COUNSELORS AND SCHOOL PSYCHOLOGISTS	3
SPSY 67951	COGNITIVE ASSESSMENT OF CHILDREN IN SCHOOLS	3
SPSY 67955	INSTRUCTIONAL ASSESSMENT FOR SCHOOL PSYCHOLOGISTS	3
SPSY 67960	INTERVENTIONS WITH CULTURALLY DIVERSE STUDENTS	3
SPSY 67972	SOCIAL-EMOTIONAL ASSESSMENT FOR SCHOOL PSYCHOLOGISTS	3
SPSY 67974	SOCIAL-EMOTIONAL INTERVENTIONS IN SCHOOL PSYCHOLOGY	3
Choose from the following:		3
EPSY 65520	CHILD AND ADOLESCENT DEVELOPMENT	
or EPSY 65523	LIFE SPAN DEVELOPMENT	
EVAL 65510	STATISTICS I FOR EDUCATIONAL SERVICES	
SPSY 67912	ROLE OF THE SCHOOL PSYCHOLOGIST	
Minimum Total Credit Hours:		30

<sup>1</sup> Students must complete SPSY 67692 in two semesters, 3 credit hours each for a total of 6 credit hours. Annual State/Federal background checks are required for all field-based experiences.

## Graduation Requirements

- Minimum 30 credit hours of graduate coursework required for the M.Ed. degree.
- Depending on students' background/experience, students may be required to complete additional coursework in the first and second years of the program.

## School Psychology - Ph.D.

### College of Education Health and Human Services

School of Lifespan Development and Educational Sciences  
405 White Hall  
Kent Campus  
330-672-2294  
www.kent.edu/ehhs/ldes

## Description

The Ph.D. degree in School Psychology is committed to a scientist-practitioner model of training, which conceptualizes school psychologists as data-oriented problems solvers and transmitters of psychological knowledge and skill. As such, students draw upon the scientific literature as a primary basis for professional practice and focus their research agendas so as to have meaningful implications for practice. In addition, functioning as a scientist-practitioner means that professional practice is conducted in ways that are consistent with the scientific method.

Emphasis in training is placed on the provision of services through research-based practice and data-based decision making. Doctoral students gain competencies, not only in the provision of school psychological services to individual children and youth, but also in the promotion and implementation of systemic, preventative educational and mental health systems. Since the program's emphasis is on the application of psychology in applied educational and mental health settings, students are required to demonstrate competence in the substantive content areas of psychological and educational theory; the scientific, methodological and theoretical foundations of practice in school psychology; data-based decision making; intervention design and evaluation; and cultural and individual diversity.

The school psychology doctorate prepares students to work as leaders in applied practice in educational and mental health settings.

### Fully Offered At:

- Kent Campus

## Accreditation

National Association of School Psychologists (NASP), American Psychological Association (APA)

## Admission Requirements

- Master's degree from an accredited college or university for unconditional admission
- Minimum 3.000 graduate GPA on a 4.000 point scale (minimum 3.500 GPA is recommended) for unconditional admission
- Official transcript(s)
- GRE scores (minimum scores at the 50th percentile is recommended)
- Résumé or vita
- Goal statement
- Sample of written work
- School Psychology Supplemental Data Form (online document)
- Questions in Anticipation of Licensure form
- Two letters of recommendation
- Interview
- English language proficiency - all international students must provide proof of English language proficiency (unless they meet specific exceptions) by earning one of the following:
  - Minimum 550 TOEFL PBT score (paper-based version)
  - Minimum 79 TOEFL IBT score (Internet-based version)
  - Minimum 77 MELAB score
  - Minimum 6.5 IELTS score

- Minimum 58 PTE score
- Minimum 110 Duolingo English Test score

For more information about graduate admissions, please visit the Graduate Studies admission website. For more information on international admission, visit the Office of Global Education's admission website.

## Program Learning Outcomes

Graduates of this program will be able to:

1. Demonstrate adequate knowledge and skills associated with both the National Association of School Psychologists' Domains of School Psychology Training and Practice and those domains related to advanced psychological foundations knowledge and research skills as identified by the American Psychological Association (APA).
2. Demonstrate an appropriate level of professional deportment.

## Program Requirements

### Major Requirements

Code	Title	Credit Hours
<b>Major Requirements</b>		
EVAL 85515 or PSYC 71651	QUANTITATIVE RESEARCH DESIGN AND ANALYSIS QUANTITATIVE STATISTICAL ANALYSIS I	3
EVAL 85516	QUALITATIVE RESEARCH DESIGN	3
EVAL 85517 or EVAL 85518 or PSYC 71654	ADVANCED QUANTITATIVE RESEARCH IN EDUCATIONAL SERVICES ADVANCED QUALITATIVE RESEARCH IN EDUCATIONAL SERVICES QUANTITATIVE STATISTICAL ANALYSIS II	3
PSYC 70413 or PSYC 70453 or PSYC 70604	COGNITIVE NEUROPSYCHOLOGY INTRODUCTION TO COGNITIVE PSYCHOLOGY COGNITIVE DEVELOPMENT	3
PSYC 70615 or PSYC 71260	SOCIAL AND PERSONALITY DEVELOPMENT THEORIES OF PERSONALITY	3
PSYC 70950	HISTORY AND CONTEMPORARY SYSTEMS	3
PSYC 71054 or PSYC 71350	LEARNING AND CONDITIONING PHYSIOLOGICAL PSYCHOLOGY	3
PSYC 71580	SOCIAL PSYCHOLOGY	3
SPSY 77892	ADVANCED PRACTICUM IN SCHOOL PSYCHOLOGY	6
SPSY 77998	INDIVIDUAL RESEARCH IN SCHOOL PSYCHOLOGY	4
SPSY 80090	DOCTORAL RESIDENCY SEMINAR	3
SPSY 80199	DISSERTATION I <sup>1</sup>	30
SPSY 87987	PROFESSIONAL SEMINAR IN SCHOOL PSYCHOLOGY	3
SPSY 87987 or SPSY 87998	PROFESSIONAL SEMINAR IN SCHOOL PSYCHOLOGY RESEARCH SEMINAR IN SCHOOL PSYCHOLOGY	3
SPSY 87992	DOCTORAL INTERNSHIP IN SCHOOL PSYCHOLOGY	12
SPSY 87998	RESEARCH SEMINAR IN SCHOOL PSYCHOLOGY	3
Psychology (PSYC) Elective		3
Minimum Total Credit Hours:		91

## Graduation Requirements

- The total number of required credit hours in each student's Plan of Study/Residency Plan will vary based on previous graduate coursework, point of entry into the program, program area advisor input and the school psychology program requirements. The minimum requirement for a doctoral degree is 60 credit hours beyond the master's degree. Given the requirements of the accreditation bodies governing Kent State's school psychology degree program, the typical number of required credit hours for the doctoral degree will exceed that of the minimum college requirements.
- Students who enter the program without recent and comprehensive training in school psychology (from a NASP-approved program) and without a school psychology license must complete relevant coursework. The total number of required hours will vary based on point of entry into the program, previous coursework and program advisor input.
- State/Federal background checks are required for all field-based experiences.

## Candidacy

Once the student has successfully completed and orally defended their comprehensive exams, they are recommended for doctoral candidacy in line with all other program and college requirements.

## Licensure Information

Candidates seeking School Psychologist licensure are required to pass the ETS Praxis II School Psychologist test or the domain specific School Psychology Ohio Assessment for Educators test.

## Special Education - B.S.E.

**College of Education Health and Human Services**  
 School of Lifespan Development and Educational Services  
 405 White Hall  
 Kent Campus  
 330-672-2294  
[www.kent.edu/ehhs/ldes](http://www.kent.edu/ehhs/ldes)

## Description

A Bachelor of Science in Education degree in Special Education prepares students to become special education teachers (sometimes also referred to as Intervention Specialists), although some graduates may work with individuals with disabilities in non-school settings.

Special educators teach individuals with many kinds of disabilities including learning disabilities, emotional and behavioral disorders, ADHD/ other health impairments, intellectual disabilities, autism spectrum disorder, hearing impairments, and multiple disabilities.

Special educators may co-teach with general education teachers in academic classrooms, teach small groups of students in a resource room, or teach students individually in highly specialized classrooms or programs designed specifically to meet the needs of students with disabilities. Special education majors who do not want to become teachers will often work with adults with disabilities in residential and/or vocational programs.

The Special Education major comprises the following concentrations:

- The **Deaf Education** concentration prepares candidates to work with deaf and hard-of-hearing students across inclusion, itinerant, resource room and self-contained public and residential classroom settings. Extensive field and teaching lab experiences optimize this preparation in combination with coursework in literacy, mathematics, science and social studies that help prepare students to take specific assessments to become designated as a 'highly qualified' teacher in deaf education, reading and mathematics. Instructional methods are comprehensive in nature and provide the unique strategies necessary to address issues concomitant with hearing loss, including language development in both English and American Sign Language, use of bilingual-bicultural methodologies and various assistive and instructional technologies. The hierarchical coursework sequence concludes with thematic unit instruction that prepares graduates to work with the Core Curriculum to address all academic content areas, as well as transition, and students with additional needs. Graduates are eligible to apply for Ohio licensure to teach preK-12 deaf and hard-of-hearing students.
- The **Mild to Intensive Dual License** concentration prepares candidates to work with individuals (kindergarten through age 21) who have a wide variety of support needs in a broad array of settings (e.g., general education classrooms, self-contained classrooms, alternative schools and community-based programs). Candidates in this concentration progress through highly-structured coursework and extensive field experiences to learn evidence-based practices to teach academic, social adaptive and life-skills. Successful completion of this program enables candidates to be eligible for licensure in both Mild/Moderate Educational Needs (e.g., learning disabilities emotional and behavioral disorders, ADHD) as well as Moderate/Intensive Educational Needs (e.g., intellectual disabilities, autism spectrum disorders, physical disabilities) through the State of Ohio.

## Fully Offered At:

Kent Campus

## Accreditation

National Council for Accreditation of Teacher Education  
 Council of Education of the Deaf

## Admission Requirements

Admission to this major is selective. To be admitted directly into the Special Education major, freshmen must have a minimum 2.750 high school GPA, and transfer students must have a minimum 2.750 overall GPA in all previous undergraduate coursework. Students who do not meet the GPA requirement at the time of admission for this major will be admitted to the EHHS General non-degree program until which time they have established a Kent State GPA of 2.750. They may then submit a change of program to declare this major.

**Current Kent State and Transfer Students:** Active Kent State students who wish to change their major must have attempted a minimum 12 credit hours at Kent State and meet all admission criteria listed above to be admitted. Students who have not attempted 12 credit hours at Kent State will be evaluated for admission based on their high school GPA for new students or transfer GPA for transfer students. Transfer students who have not attempted 12 credit hours of college-level coursework at Kent State and/or other institutions will be evaluated based on both their high school GPA and college GPA.

**English Language Proficiency Requirements for International Students:**

All international students must provide proof of English language proficiency (unless they meet specific exceptions) by earning a minimum 525 TOEFL score (71 on the Internet-based version), minimum 75 MELAB score, minimum 6.0 IELTS score or minimum 48 PTE Academic score, or by completing the ELS level 112 Intensive Program. For more information on international admission, visit the Office of Global Education's admission website.

## Program Learning Outcomes

Graduates of the program will be able to:

1. Demonstrate knowledge of: 1) learner development and individual learning differences, 2) the learning environment, 3) curricular content knowledge, 4) assessment, 5) instructional planning and evidence-based intervention strategies, and 6) professional learning and practice, and collaboration.
2. Demonstrate the dispositions necessary to be successful special educational teachers/professionals.
3. Demonstrate preparation for the profession by successfully completing the Ohio Assessment for Educators (OAE) Special Education Assessments required for their Special Education License type.

## University Requirements

All students in a bachelor's degree program at Kent State University must complete the following university requirements for graduation.

**NOTE:** University requirements may be fulfilled in this program by specific course requirements. Please see Program Requirements for details.

Destination Kent State: First Year Experience	1
Course is not required for students with 25 transfer credits, excluding College Credit Plus, or age 21+ at time of admission.	
Diversity Domestic/Global (DIVD/DIVG)	2 courses
Students must successfully complete one domestic and one global course, of which one must be from the Kent Core.	
Experiential Learning Requirement (ELR)	varies
Students must successfully complete one course or approved experience.	
Kent Core (see table below)	36-37
Writing-Intensive Course (WIC)	1 course
Students must earn a minimum C grade in the course.	
Upper-Division Requirement	39 (or 42)
Students must successfully complete 39 upper-division (numbered 30000 to 49999) credit hours to graduate. Students in a B.A. and/or B.S. degree in the College of Arts and Sciences must complete 42 upper-division credit hours.	
Total Credit Hour Requirement	120
Some bachelor's degrees require students to complete more than 120 credit hours.	

## Kent Core Requirements

Kent Core Composition (KCOMP)	6
Kent Core Mathematics and Critical Reasoning (KMCR)	3
Kent Core Humanities and Fine Arts (KHUM/KFA) (min one course each)	9
Kent Core Social Sciences (KSS) (must be from two disciplines)	6

Kent Core Basic Sciences (KBS/KLAB) (must include one laboratory)	6-7
Kent Core Additional (KADL)	6
<b>Total Credit Hours:</b>	<b>36-37</b>

## Program Requirements

### Major Requirements

Code	Title	Credit Hours
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**Major Requirements (courses count in major GPA)**

CI 47501	TEACHING MATHEMATICS IN EARLY AND MIDDLE GRADES (min C grade)	3
CI 47504	TEACHING READING AND WRITING IN MIDDLE GRADES (min C grade) <sup>1</sup>	3
SPED 23000	INTRODUCTION TO EXCEPTIONALITIES (DIVD) (min C grade) <sup>2</sup>	3
SPED 43010	FAMILY AND PROFESSIONAL COLLABORATION (min C grade) <sup>2</sup>	3
SPED 43030	APPLIED BEHAVIOR ANALYSIS I: THEORY AND TECHNIQUES (min C grade) <sup>2</sup>	3
SPED 44492	STUDENT TEACHING IN SPECIAL EDUCATION (ELR)	9
SPED 49525	INQUIRY SEMINAR INTO PROFESSIONAL PRACTICE (min C grade)	3

**Additional Requirements (courses do not count in major GPA)**

CULT 29535	EDUCATION IN A DEMOCRATIC SOCIETY (min C grade)	3
EPSY 29525	EDUCATIONAL PSYCHOLOGY (min C grade)	3
MATH 14001	BASIC MATHEMATICAL CONCEPTS I (KMCR) (min C grade)	4
MATH 14002	BASIC MATHEMATICAL CONCEPTS II (KMCR) (min C grade)	4
UC 10097	DESTINATION KENT STATE: FIRST YEAR EXPERIENCE	1

Kent Core Composition (min C grade)	6
Kent Core Humanities and Fine Arts (minimum one course from each)	6
Kent Core Social Sciences (must be from two disciplines)	3
Kent Core Basic Sciences (must include one laboratory)	6-7
Kent Core Additional	2

**Concentrations**

Choose from the following:	58-60
Deaf Education	
Mild to Intensive Dual License	

Minimum Total Credit Hours:	123-125
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<sup>1</sup> Students in the Deaf Education concentration may substitute ECED 40126 for CI 47504.

<sup>2</sup> Teacher candidates are only permitted to repeat a field experience course once. Please see Repeating Field Experience Courses in Teacher Education Programs policy for details.

## Deaf Education Concentration Requirements

Code	Title	Credit Hours
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**Concentration Requirements (courses count in major GPA)**

ASL 19201	ELEMENTARY AMERICAN SIGN LANGUAGE I (min C grade)	4
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ASL 19202	ELEMENTARY AMERICAN SIGN LANGUAGE II (min C grade)	4	SPED 43040	LANGUAGE AND READING IN SPECIAL EDUCATION (min C grade)	3
ASL 29201	INTERMEDIATE AMERICAN SIGN LANGUAGE I (min C grade)	3	SPED 43050	CHARACTERISTICS OF STUDENTS WITH MILD/MODERATE INTERVENTION NEEDS (min C grade) <sup>1</sup>	3
ASL 29202	INTERMEDIATE AMERICAN SIGN LANGUAGE II (min B- grade)	3	SPED 43051	CHARACTERISTICS OF STUDENTS WITH MODERATE/INTENSIVE INTERVENTION NEEDS (min C grade) <sup>1</sup>	3
CI 47505	INTEGRATED SOCIAL STUDIES AND SCIENCE (min C grade required for either course)	3	SPED 43062	CURRICULUM METHODS MILD/MODERATE INTERVENTION (min C grade)	3
or MCED 30002	INTEGRATED SOCIAL STUDIES AND SCIENCE IN MIDDLE CHILDHOOD		SPED 43063	CURRICULUM METHODS MODERATE/INTENSIVE INTERVENTION (min C grade)	3
SPED 43092	DEAF RESIDENTIAL SCHOOL FIELD EXPERIENCE (ELR)	1	SPED 43070	PLANNING AND PROGRAMMING FOR TRANSITIONS (min C grade)	3
SPED 43306	FUNDAMENTALS OF AUDIOLOGY FOR STUDENTS WITH HEARING LOSS (min C grade)	3	SPED 43080	ASSISTIVE TECHNOLOGY FOR STUDENTS WITH DISABILITIES (min C grade) <sup>1</sup>	3
SPED 43307	LISTENING, LANGUAGE AND PHONEMIC DEVELOPMENT FOR INDIVIDUALS WITH HEARING LOSS (min C grade)	3	SPED 44092	FIELD EXPERIENCE FOR MILD/MODERATE INTERVENTION SPECIALIST (ELR) <sup>1</sup>	3
SPED 43309	INTRODUCTION TO DEAF STUDIES (ELR) (WIC) (min B grade)	3	SPED 44192	FIELD EXPERIENCE FOR MODERATE/INTENSIVE INTERVENTION SPECIALIST (ELR) <sup>1</sup>	3
SPED 43310	LANGUAGE DEVELOPMENT FOR DEAF AND HARD-OF-HEARING STUDENTS (min B grade)	3	SPED 44309	AUTISM SPECTRUM DISORDERS: THEORY AND DIAGNOSIS (min C grade)	3
SPED 43311	INSTRUCTION OF DEAF/HARD-OF-HEARING STUDENTS WITH SPECIAL NEEDS (min B grade)	3	SPED 44951	CREATING LEGALLY DEFENSIBLE INDIVIDUAL FAMILY SERVICE PLANS AND INDIVIDUALIZED EDUCATION PROGRAMS (WIC) (min C grade)	3
SPED 43313	LITERACY ASSESSMENT AND INTERVENTION FOR DEAF/HARD-OF-HEARING STUDENTS (min B grade)	6	<b>Additional Requirements (courses do not count in major GPA)</b>		
SPED 43324	CURRICULUM METHODS AND MATERIALS FOR DEAF/HARD-OF-HEARING STUDENTS (min B grade)	3	PACS 11001	INTRODUCTION TO CONFLICT MANAGEMENT (DIVD) (KSS)	3
SPED 43392	PRACTICUM:DEAF EDUCATION (ELR) (course is taken twice)	4	ENG 22071	GREAT BOOKS TO 1700 (KHUM) (min C grade in either course)	3
<b>Additional Requirements (courses do not count in major GPA)</b>			or ENG 22072	GREAT BOOKS SINCE 1700 (KHUM)	
ETEC 39525	EDUCATIONAL TECHNOLOGY (min C grade)	3	or ENG 22073	MAJOR MODERN WRITERS: BRITISH AND UNITED STATES (KHUM)	
HED 42575	HEALTH AND LEARNING: STRATEGIES FOR STUDENTS AND TEACHERS (min C grade)	3	Minimum Total Credit Hours: 60		
Kent Core Humanities and Fine Arts		3	<sup>1</sup> Teacher candidates are only permitted to repeat a field experience course once. Please see Repeating Field Experience Courses in Teacher Education Programs policy for details.		
Kent Core Social Sciences		3			
Minimum Total Credit Hours:		58			

## Mild to Intensive Dual License Concentration requirements

Code	Title	Credit Hours
<b>Concentration Requirements (courses count in major GPA)</b>		
ECED 40105	APPROPRIATE PHONICS INSTRUCTION FOR KINDERGARTEN AND PRIMARY CHILDREN (min C grade in either course)	3
or ECED 40302	APPROPRIATE PHONICS INSTRUCTION AND WORD STUDY	
ECED 40126	DEVELOPMENTAL READING AND WRITING: EARLY YEARS (min C grade in either course)	3
or ECED 40402	DEVELOPMENTAL READING AND WRITING IN THE ELEMENTARY YEARS	
NURS 45070	HEALTH CARE NEEDS FOR INDIVIDUALS WITH DISABILITIES (min C grade)	3
SPA 34210	SPEECH AND LANGUAGE DEVELOPMENT (min C grade)	3
SPED 24000	INCLUSIVE PRACTICES (min C grade)	3
SPED 43021	ASSESSMENT FOR SPECIAL EDUCATION (min C grade)	3
SPED 43031	APPLIED BEHAVIOR ANALYSIS II: APPLICATION (min C grade) <sup>1</sup>	3

## Licensure Information

Candidates seeking Ohio licensure are required to pass specific assessments in order to apply for licensure. See Ohio Department of Education-Educator Preparation website for more information on assessments specific to licensure type. Taking and passing the licensure tests prior to graduation is encouraged but not required.

Students must apply for State of Ohio Licensure (defined by completion of all licensure program requirements) within 12 months of program completion. After 12 months, applicants must meet State approved program/licensure requirements that are in effect at the time of application. This means that students who apply after the 12 month deadline may have to take additional coursework if the content, methods courses, program requirements, or licensure requirements have changed from the catalog in force.

## Progression Requirements

Admission to advanced study is required prior to enrolling in upper-division education courses. Students must meet all professional requirements for admission to advanced study and have a minimum

overall 2.750 GPA<sup>1</sup> and minimum 3.00 GPA<sup>1</sup> in the professional coursework.

To manage enrollment and deliver high-quality programs, the faculty will select the most qualified applicants for admission based upon evaluation of standardized test scores of reading, writing and mathematics; academic success (overall GPA<sup>1</sup>) at Kent State University; non-academic criteria and other specific program criteria.

Please be aware that reapplication may be necessary if postponing advanced study coursework or if withdrawn for one year or more.

<sup>1</sup> Undergraduate students who have not completed a minimum of 12 Kent State University credit hours will be evaluated for advanced study and professional phase based on their high school GPA for new freshmen or transfer GPA for transfer students.

### Graduation Requirements

Minimum Major GPA	Minimum Overall GPA
3.000	2.750

- To graduate, students in the Deaf Education concentration must pass the Sign Language Proficiency Interview (SLPI) at the intermediate level.

### Roadmaps

- Deaf Education Concentration
- Mild to Intensive Dual License Concentration

### DEAF EDUCATION CONCENTRATION

This roadmap is a recommended semester-by-semester plan of study for this major. However, courses designated as critical (!) must be completed in the semester listed to ensure a timely graduation.

Semester One		Credits
!	ASL 19201 ELEMENTARY AMERICAN SIGN LANGUAGE I	4
!	MATH 14001 BASIC MATHEMATICAL CONCEPTS I (KMCR)	4
	UC 10097 DESTINATION KENT STATE: FIRST YEAR EXPERIENCE	1
	Kent Core Requirement	3
	Kent Core Requirement	3
Credit Hours		15
Semester Two		
Requirement: Successful completion of Praxis Core Reading, Writing and Mathematics		
!	ASL 19202 ELEMENTARY AMERICAN SIGN LANGUAGE II	4
!	MATH 14002 BASIC MATHEMATICAL CONCEPTS II (KMCR)	4
!	SPED 23000 INTRODUCTION TO EXCEPTIONALITIES (DIVD)	3
	Kent Core Requirement	3
	Kent Core Requirement	3
Credit Hours		17
First Summer Term		
If students are placed into developmental math courses in the first two semesters, it is suggested that MATH 14001 and/or MATH 14002 be taken during the summer.		
Credit Hours		0
Semester Three		
Requirement: minimum 2.750 overall GPA by end of term and minimum 3.000 major GPA		
!	ASL 29201 INTERMEDIATE AMERICAN SIGN LANGUAGE I	3

!	CULT 29535 EDUCATION IN A DEMOCRATIC SOCIETY	3
	SPED 43306 FUNDAMENTALS OF AUDIOLOGY FOR STUDENTS WITH HEARING LOSS	3
	SPED 43309 INTRODUCTION TO DEAF STUDIES (ELR) (WIC)	3
	Kent Core Requirement	3
	Kent Core Requirement	3
Credit Hours		18
Semester Four		
Requirement: 2.750 overall GPA; minimum 3.000 major GPA; Note: apply online for Advanced Study by the second Friday of the term		
!	ASL 29202 INTERMEDIATE AMERICAN SIGN LANGUAGE II	3
!	EPSY 29525 EDUCATIONAL PSYCHOLOGY	3
	ETEC 39525 EDUCATIONAL TECHNOLOGY	3
	SPED 43307 LISTENING, LANGUAGE AND PHONEMIC DEVELOPMENT FOR INDIVIDUALS WITH HEARING LOSS	3
	Kent Core Requirement	3
Credit Hours		15
Semester Five		
Requirement: minimum 2.750 overall GPA and minimum 3.000 major GPA		
	CI 47504 TEACHING READING AND WRITING IN MIDDLE GRADES	3
	or ECED 40126 or DEVELOPMENTAL READING AND WRITING: EARLY YEARS	
	CI 47505 INTEGRATED SOCIAL STUDIES AND SCIENCE	3
	or MCED 30002 or INTEGRATED SOCIAL STUDIES AND SCIENCE IN MIDDLE CHILDHOOD	
	SPED 43010 FAMILY AND PROFESSIONAL COLLABORATION	3
	SPED 43310 LANGUAGE DEVELOPMENT FOR DEAF AND HARD-OF-HEARING STUDENTS	3
	Kent Core Requirement	3
Credit Hours		15
Semester Six		
Requirement: minimum 2.750 overall GPA; and minimum 3.000 major GPA		
	CI 47501 TEACHING MATHEMATICS IN EARLY AND MIDDLE GRADES	3
!	SPED 43030 APPLIED BEHAVIOR ANALYSIS I: THEORY AND TECHNIQUES	3
	SPED 43092 DEAF RESIDENTIAL SCHOOL FIELD EXPERIENCE (ELR)	1
!	SPED 43313 LITERACY ASSESSMENT AND INTERVENTION FOR DEAF/HARD-OF-HEARING STUDENTS	6
!	SPED 43392 PRACTICUM:DEAF EDUCATION (ELR)	2
Credit Hours		15
Semester Seven		
Note: successful completion of the Sign Language Proficiency Interview (SLPI) at Intermediate level or above and successful completion of all NCATE assessments		
	HED 42575 HEALTH AND LEARNING: STRATEGIES FOR STUDENTS AND TEACHERS	3
!	SPED 43311 INSTRUCTION OF DEAF/HARD-OF-HEARING STUDENTS WITH SPECIAL NEEDS	3
!	SPED 43324 CURRICULUM METHODS AND MATERIALS FOR DEAF/HARD-OF-HEARING STUDENTS	3
!	SPED 43392 PRACTICUM:DEAF EDUCATION (ELR)	2
	Kent Core Requirement	2
	Kent Core Requirement	3
Credit Hours		16

**Semester Eight**

SPED 44492	STUDENT TEACHING IN SPECIAL EDUCATION (ELR)	9
SPED 49525	INQUIRY SEMINAR INTO PROFESSIONAL PRACTICE	3
Credit Hours		12
Minimum Total Credit Hours:		123

### Mild to Intensive Dual License Concentration

This roadmap is a recommended semester-by-semester plan of study for this major. However, courses designated as critical (!) must be completed in the semester listed to ensure a timely graduation.

Semester One			Credits
!	MATH 14001	BASIC MATHEMATICAL CONCEPTS I (KMCR)	4
!	SPED 23000	INTRODUCTION TO EXCEPTIONALITIES (DIVD)	3
	UC 10097	DESTINATION KENT STATE: FIRST YEAR EXPERIENCE	1
Kent Core Requirement			3
Kent Core Requirement			3
Credit Hours			14

Semester Two			Credits
Requirement: Successful completion of Praxis Core Reading, Writing and Mathematics			
!	CULT 29535	EDUCATION IN A DEMOCRATIC SOCIETY	3
!	MATH 14002	BASIC MATHEMATICAL CONCEPTS II (KMCR)	4
	SPED 43050	CHARACTERISTICS OF STUDENTS WITH MILD/MODERATE INTERVENTION NEEDS	3
Kent Core Requirement			3
Kent Core Requirement			3
Credit Hours			16

First Summer Term			Credits
If students are placed in developmental math courses in the first two semesters, it is suggested that MATH 14001 and/or MATH 14002 be taken during the summer.			
Credit Hours			0

Semester Three			Credits
Requirement: minimum 2.750 overall GPA by end of term and minimum 3.000 major GPA			
!	EPSY 29525	EDUCATIONAL PSYCHOLOGY	3
!	SPED 43051	CHARACTERISTICS OF STUDENTS WITH MODERATE/INTENSIVE INTERVENTION NEEDS	3
Kent Core Requirement			3
Kent Core Requirement			3
Kent Core Requirement			3
Credit Hours			15

Semester Four			Credits
Requirement: 2.750 overall GPA; minimum 3.000 major GPA; Note: apply online for Advanced Study by the second Friday of the term			
	ENG 22071	GREAT BOOKS TO 1700 (KHUM)	3
	or	or GREAT BOOKS SINCE 1700 (KHUM)	
	ENG 22072	or MAJOR MODERN WRITERS: BRITISH AND UNITED STATES (KHUM)	
	or		
	ENG 22073		
	PACS 11001	INTRODUCTION TO CONFLICT MANAGEMENT (DIVD) (KSS)	3
	SPED 24000	INCLUSIVE PRACTICES	3
	SPED 44309	AUTISM SPECTRUM DISORDERS: THEORY AND DIAGNOSIS	3
Kent Core Requirement			2
Credit Hours			14

Second Summer Term			Credits
It is suggested that students take any Kent Core courses missing from semesters 1-4 during the summer.			
Credit Hours			0

Semester Five			Credits
Requirement: minimum 2.750 overall GPA; minimum 3.000 major GPA			
	CI 47501	TEACHING MATHEMATICS IN EARLY AND MIDDLE GRADES	3
	ECED 40105	APPROPRIATE PHONICS INSTRUCTION FOR KINDERGARTEN AND PRIMARY CHILDREN	3
	or	or APPROPRIATE PHONICS INSTRUCTION AND WORD STUDY	
	ECED 40302		
!	SPED 43021	ASSESSMENT FOR SPECIAL EDUCATION	3
	SPED 43030	APPLIED BEHAVIOR ANALYSIS I: THEORY AND TECHNIQUES	3
!	SPED 43062	CURRICULUM METHODS MILD/MODERATE INTERVENTION	3
!	SPED 44092	FIELD EXPERIENCE FOR MILD/MODERATE INTERVENTION SPECIALIST (ELR)	3
Credit Hours			18

Semester Six			Credits
Requirement: minimum 3.000 major GPA			
	SPA 34210	SPEECH AND LANGUAGE DEVELOPMENT	3
	SPED 43010	FAMILY AND PROFESSIONAL COLLABORATION	3
!	SPED 43063	CURRICULUM METHODS MODERATE/INTENSIVE INTERVENTION	3
!	SPED 43080	ASSISTIVE TECHNOLOGY FOR STUDENTS WITH DISABILITIES	3
	SPED 43031	APPLIED BEHAVIOR ANALYSIS II: APPLICATION	3
!	SPED 44192	FIELD EXPERIENCE FOR MODERATE/INTENSIVE INTERVENTION SPECIALIST (ELR)	3
Credit Hours			18

Semester Seven			Credits
Requirement: minimum 2.750 overall GPA or minimum 3.000 major GPA			
	CI 47504	TEACHING READING AND WRITING IN MIDDLE GRADES	3
	ECED 40126	DEVELOPMENTAL READING AND WRITING: EARLY YEARS	3
	or	or DEVELOPMENTAL READING AND WRITING IN THE ELEMENTARY YEARS	
	ECED 40402		
	SPED 43040	LANGUAGE AND READING IN SPECIAL EDUCATION	3
	SPED 43070	PLANNING AND PROGRAMMING FOR TRANSITIONS	3
	SPED 44951	CREATING LEGALLY DEFENSIBLE INDIVIDUAL FAMILY SERVICE PLANS AND INDIVIDUALIZED EDUCATION PROGRAMS (WIC)	3
	NURS 45070	HEALTH CARE NEEDS FOR INDIVIDUALS WITH DISABILITIES	3
Credit Hours			18

Semester Eight			Credits
Requirement: minimum 2.750 overall GPA or minimum 3.000 major GPA			
	SPED 44492	STUDENT TEACHING IN SPECIAL EDUCATION (ELR)	9
	SPED 49525	INQUIRY SEMINAR INTO PROFESSIONAL PRACTICE	3
Credit Hours			12

Minimum Total Credit Hours: 125

## Special Education - Ed.S.

### College of Education Health and Human Services

School of Lifespan Development and Educational Sciences

405 White Hall

Kent Campus

330-672-2294

www.kent.edu/ehhs/ldes

## Description

The mission of the Educational Specialist degree in Special Education is to provide an advanced degree in specialized areas of educational programming for children and youth with exceptionalities. The program meets the needs of postmaster's degree students who wish to assume leadership roles in schools and agencies that provide special education and related services to children, youth, and adults who have disabilities.

The Ed.S. degree program is designed for the accomplished, experienced practitioner with specific professional aspirations. It is not designed for those who wish to pursue a research emphasis as a prelude to doctoral study.

### Fully Offered At:

- Kent Campus

## Accreditation

The Council of Education of the Deaf

## Admission Requirements

- Master's degree from an accredited college or university for unconditional admission
- Minimum 3.000 graduate GPA on a 4.000 point scale (minimum 3.250 GPA is recommended) for unconditional admission
- Official transcript(s)
- GRE scores (minimum score of 50th percentile is recommended)
- Résumé or curriculum vitae
- Goal statement
- Two letters of recommendation
- English language proficiency - all international students must provide proof of English language proficiency (unless they meet specific exceptions) by earning one of the following:
  - Minimum 550 TOEFL PBT score (paper-based version)
  - Minimum 79 TOEFL IBT score (Internet-based version)
  - Minimum 77 MELAB score
  - Minimum 6.5 IELTS score
  - Minimum 58 PTE score
  - Minimum 110 Duolingo English Test score

For more information about graduate admissions, please visit the Graduate Studies admission website. For more information on international admission, visit the Office of Global Education's admission website.

## Program Learning Outcomes

Graduates of the program will be able to:

1. Attain the background knowledge and critical thinking skills necessary to advance their ability to identify and plan evidence-based educational practices for exceptional learners.
2. Increase their proficiency with the pedagogical and decision-making skills necessary to implement evidence-based educational practices for exceptional learners.
3. Attain an appropriate level of expertise in methods of assessment relevant to providing special education to exceptional learners in schools.
4. Articulate professional positions on critical legal, policy, and practice issues in special education that are grounded in logical analysis, empirical research and the ethical foundations of the field.

## Program Requirements

### Major Requirements

Code	Title	Credit Hours
<b>Major Requirements</b>		
EVAL 75510 or EVAL 75610 or EVAL 85516 or SPED 63300	STATISTICS I FOR EDUCATIONAL SERVICES <sup>1</sup> CLASSROOM ASSESSMENT QUALITATIVE RESEARCH DESIGN RESEARCH APPLICATIONS IN SPECIAL EDUCATION	3
Program Elective <sup>1</sup>		3
Major Area of Study Electives, choose from the following: <sup>1</sup>		12
SPED 73030	PHARMACOLOGICAL INTERVENTIONS IN SPECIAL EDUCATION	
SPED 73950	CURRICULUM AND INTERVENTION IN EARLY CHILDHOOD SERVICES	
SPED 73956	FOUNDATIONS IN EARLY CHILDHOOD SERVICES	
SPED 73957	ASSESSMENT AND EVALUATION OF EARLY CHILDHOOD SERVICES	
SPED 73996	INDIVIDUAL INVESTIGATION IN SPECIAL EDUCATION	
SPED 74200	CURRICULUM METHODS FOR TRANSITION PLANNING AND COLLABORATION	
SPED 80002	ANALYSIS OF THE LITERATURE IN SPECIAL EDUCATION	
SPED 80005	EMPIRICAL INVESTIGATIONS IN SPECIAL EDUCATION	
SPED 83201	CONTEMPORARY ISSUES IN SPECIAL EDUCATION	
Minor Area of Study Electives, choose from the following: <sup>1</sup>		12
CES 78011	FOUNDATIONS OF SCHOOL COUNSELING	
CES 77531	COUNSELING SKILLS AND TECHNIQUES	
CES 78182	CAREER COUNSELING	
EDLE 76542	PRINCIPLES AND TECHNIQUES OF SUPERVISION AND SPECIAL EDUCATION	
EPSY 75520	CHILD AND ADOLESCENT DEVELOPMENT	
EPSY 75521	ADULT DEVELOPMENT	
EPSY 75524	LEARNING THEORIES	
EVAL 78807	PROGRAM EVALUATION	
EVAL 85530	PRACTITIONER INQUIRY	



SPED 73204	LEGAL AND POLICY FOUNDATIONS OF SPECIAL EDUCATION
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Minimum Total Credit Hours:	30
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<sup>1</sup> All electives, including additional coursework, must be approved by the student's Ed.S. degree committee.

## Graduation Requirements

- Upon admission to the Ed.S. degree program, students will be assigned an advisor.
- 6 credit hours of coursework in statistics and research design are required.

## Special Education - M.Ed.

**College of Education Health and Human Services**  
 School of Lifespan Development and Educational Sciences  
 405 White Hall  
 Kent Campus  
 330-672-2294  
[www.kent.edu/ehhs/ldes](http://www.kent.edu/ehhs/ldes)

## Description

**Admission to the ASL/English Interpreting concentration has been suspended temporarily.**

The Master of Education degree in Special Education provides students with advanced understanding of contemporary research and practice issues in special education. Students in the program are typically interested in pursuing enhanced professional competence, career advancement, leadership roles, advocacy and systems change, or preparation for doctoral-level study. Students do not need to have an undergraduate degree in special education (or education) to be successful in the master's degree, however, should be motivated to develop a deeper understanding of the field of special education.

Students in the M.Ed. Special Education major will develop advanced skills in: designing, implementing, and evaluating research-based practices that meet the special education needs of learners with disabilities; understanding the conceptual underpinnings of special education, as well as policies that guide its implementation in school and community settings; analyzing contemporary issues surrounding special education and the impact of exceptionality on individuals and their families; and understanding the roles that research plays in special education theory.

The M.Ed. degree program does not prepare students for teacher licensure; however, some of the coursework required for the degree may count toward licensure. Students interested in both licensure and a M.Ed. degree will need to apply and be fully admitted into both the master's degree and the non-degree graduate licensure preparation program.

The Special Education major comprises the following concentrations:

- The **ASL/English Interpreting** concentration - *admission to this concentration has been temporarily suspended.*
- The **Deaf Education** concentration focuses on needs of students who are deaf or hard of hearing.

- The **Early Childhood Intervention Specialist** concentration focuses on needs of young children with or at risk for developmental delays or disabilities, birth to grade 5 (birth to 10) and their families.
- The **General Special Education** concentration provides a broad focus on special education across all ages and types of student needs. Students interested in the General Special Education concentration will work with a graduate adviser to develop a personalized plan of study.
- The **Mild/Moderate Educational Needs** concentration focuses on needs of students with mild to moderate educational needs who most often participate in the general education academic curriculum with special education supports.
- The **Moderate/Intensive Educational Needs** concentration focuses on students with moderate to intensive educational needs who most often require modifications to the general academic curriculum and/or other extensive special education supports.
- The **Pre-Kindergarten Special Needs** concentration focuses on the needs of preschool children with or at risk for developmental delays or disabilities
- The **Transition to Work** concentration focuses on needs of students with disabilities transitioning to adulthood.

## Fully Offered At:

- Online (General Special Education concentration only)
- Kent Campus

## Accreditation

The Council of Education of the Deaf

## Admission Requirements

- Bachelor's degree from an accredited college or university for unconditional admission
- Minimum 3.000 undergraduate GPA on a 4.000 point scale for unconditional admission
- Official transcript(s)
- Goal statement
- Two letters of recommendation
- English language proficiency - all international students must provide proof of English language proficiency (unless they meet specific exceptions) by earning one of the following:
  - Minimum 550 TOEFL PBT score - paper-based version
  - Minimum 79 TOEFL IBT score - Internet-based version
  - Minimum 77 MELAB score
  - Minimum 6.5 IELTS score
  - Minimum 58 PTE score
  - Minimum 110 Duolingo English Test score

For more information about graduate admissions, please visit the Graduate Studies admission website. For more information on international admission, visit the Office of Global Education's admission website.

## Program Learning Outcomes

Graduates of the program will be able to:

1. Demonstrate knowledge of research applications in special education.

2. Demonstrate knowledge of contemporary issues in special education
3. Demonstrate mastery of special education concentration (e.g., transition, mild/moderate, deaf education) content.

## Program Requirements

### Major Requirements

Code	Title	Credit Hours
<b>Major Requirements</b>		
SPED 63201	CONTEMPORARY ISSUES IN SPECIAL EDUCATION	3
SPED 63204	LEGAL AND POLICY FOUNDATIONS OF SPECIAL EDUCATION	3
SPED 63300	RESEARCH APPLICATIONS IN SPECIAL EDUCATION	3
Multidisciplinary Electives, choose from the following:		6
CULT 69522	ETHICS IN PROFESSIONAL PRACTICE	
EVAL 65510	STATISTICS I FOR EDUCATIONAL SERVICES	
EVAL 68807	PROGRAM EVALUATION	
RHAB 57712	ORIENTATION AND ETHICS: CLINICAL REHABILITATION COUNSELING	
SPED 53309	INTRODUCTION TO DEAF STUDIES <sup>1</sup>	
SPED 63030	PHARMACOLOGICAL INTERVENTIONS IN SPECIAL EDUCATION	
SPED 63956	FOUNDATIONS IN EARLY CHILDHOOD SERVICES	
SPSY 67973	CONSULTATION IN THE HELPING PROFESSIONS	
Any other graduate level courses agreed upon by faculty advisor		
Thesis Option (not required for graduation)		
EVAL 65511	RESEARCH IN EDUCATIONAL SERVICES	
SPED 60199	THESIS I	
<b>Concentrations</b>		
Choose from the following:		18-27
ASL/English Interpreting Deaf Education		
Early Child Interventional Specialist		
General Special Education		
Mild/Moderate Educational Needs		
Moderate/Intensive Educational Needs		
Pre-Kindergarten Special Needs		
Transition to Work		
Minimum Total Credit Hours:		33-42

<sup>1</sup> Students in the Deaf Education concentration should not take SPED 53309.

### ASL/English Interpreting Concentration Requirements

Admission suspended as of fall 2016

Code	Title	Credit Hours
<b>Concentration Requirements</b>		
SPED 63301	SINGLE SUBJECT RESEARCH METHODS	3
General Electives, as approved by advisor		15
Minimum Total Credit Hours:		18

### Deaf Education Concentration Requirements

Code	Title	Credit Hours
<b>Concentration Requirements</b>		
EVAL 65510	STATISTICS I FOR EDUCATIONAL SERVICES	3
Deaf Education coursework, as approved by advisor		15
Minimum Total Credit Hours:		18

### Early Childhood Intervention Specialist Concentration Requirements

Code	Title	Credit Hours
<b>Concentration Requirements</b>		
SPED 63301	SINGLE SUBJECT RESEARCH METHODS	3
Early Childhood Intervention coursework, as approved by advisor		15
Minimum Total Credit Hours:		18

### General Special Education Concentration Requirements

Code	Title	Credit Hours
<b>Concentration Requirements</b>		
SPED 63301	SINGLE SUBJECT RESEARCH METHODS	3
General Electives, as approved by advisor		15
Minimum Total Credit Hours:		18

### Mild/Moderate Educational Needs Concentration Requirements

Code	Title	Credit Hours
<b>Concentration Requirements</b>		
SPED 63301	SINGLE SUBJECT RESEARCH METHODS	3
Mild/Moderate Educational Needs Electives, as approved by advisor		15
Minimum Total Credit Hours:		18

### Moderate/Intensive Educational Needs Concentration Requirements

Code	Title	Credit Hours
<b>Concentration Requirements</b>		
SPED 63301	SINGLE SUBJECT RESEARCH METHODS	3
Moderate/Intensive Educational Needs Electives, as approved by advisor		15
Minimum Total Credit Hours:		18

### Pre-Kindergarten Special Needs Concentration Requirements

Code	Title	Credit Hours
<b>Concentration Requirements</b>		
SPED 63950	CURRICULUM AND INTERVENTION IN EARLY CHILDHOOD SERVICES	3
or SPED 63958	EARLY CHILDHOOD INTERVENTION METHODS	
SPED 63952	FAMILY AND PROFESSIONAL COLLABORATION IN EARLY CHILDHOOD	3
SPED 63953	PRACTICAL APPLICATIONS: BIRTH TO FIVE	3
SPED 63955	TYPICAL AND ATYPICAL DEVELOPMENT IN YOUNG CHILDREN	3

SPED 63956	FOUNDATIONS IN EARLY CHILDHOOD SERVICES	3
SPED 63957	ASSESSMENT AND EVALUATION OF EARLY CHILDHOOD SERVICES	3
SPED 64892	ADVANCED PRACTICUM	3
SPED 64951	DEVELOPING AN INDIVIDUALIZED FAMILY SERVICE PLAN AND INDIVIDUALIZED EDUCATION PROGRAM	3
Minimum Total Credit Hours:		24

## Transition to Work Concentration Requirements

Code	Title	Credit Hours
<b>Concentration Requirements</b>		
SPED 63301	SINGLE SUBJECT RESEARCH METHODS	3
Transition-to-Work Electives, as approved by advisor		15
Minimum Total Credit Hours:		18

## Graduation Requirements

- No more than one-half of a graduate student's coursework may be taken in 50000-level courses.
- Students have six years from the term of first enrollment to complete the degree.
- Students in the Deaf Education and ASL/English Interpreting concentrations must also pass the Sign Language Proficiency Interview (SLPI) at the intermediate level for graduation. ASL/English Interpreting students may also pass the American Sign Language Proficiency Interview (ASLPI) at level 2 as an alternative to the SLPI.
- Students seeking a Reading Endorsement must see advisor before beginning ANY coursework.

## Special Education - Ph.D.

### College of Education Health and Human Services

School of Lifespan Development and Educational Sciences  
405 White Hall  
Kent Campus  
330-672-2294  
www.kent.edu/ehhs/ldes

## Description

The Ph.D. degree in Special Education is designed to prepare highly qualified, experienced persons for leadership roles in the profession, and for roles as teacher educators and researchers. The program enables students to master a comprehensive field of emphasis in Special Education, employ intellectual and innovative methods for addressing the needs of exceptional children, youth, and adults, and acquire a breadth of understanding of related disciplines that focus on the professional roles of college teaching, research, administration and clinical/educational/agency-based services for individuals with exceptionalities. Students participate in research studies, learn methods for conducting research, and design independent and collaborative studies in their specialty area. In addition to conceptualizing, designing, implementing and interpreting research, all doctoral students are also expected to demonstrate competence in teaching at the college level during their doctoral training.

The doctoral program prepares individuals for academic faculty and research positions in colleges, universities, research centers, and administrative and advocacy positions.

## Fully Offered At:

- Kent Campus

## Accreditation

The Council of Education of the Deaf

## Admission Requirements

- Master's degree from an accredited college or university for unconditional admission
- Minimum 3.000 graduate GPA on a 4.000 point scale (minimum 3.500 GPA is recommended) for unconditional admission
- Official transcript(s)
- GRE scores (minimum score of 50th percentile is recommended)
- Résumé or curriculum vitae
- Goal statement
- Two letters of recommendation
- Interview
- English language proficiency - all international students must provide proof of English language proficiency (unless they meet specific exceptions) by earning one of the following:
  - Minimum 550 TOEFL PBT score (paper-based version)
  - Minimum 79 TOEFL IBT score (Internet-based version)
  - Minimum 77 MELAB score
  - Minimum 6.5 IELTS score
  - Minimum 58 PTE score
  - Minimum 110 Duolingo English Test score

For more information about graduate admissions, please visit the Graduate Studies admission website. For more information on international admission, visit the Office of Global Education's admission website.

## Program Learning Outcomes

Graduates of the program will be able to:

1. Formulate ideas, concepts, designs and/or techniques within and beyond the current boundaries of knowledge and practice within the field of special education; demonstrate breadth within their learning experiences.
2. Articulate research problems, potentials, and limits with respect to theory knowledge, or practice within the field of special education; create research and scholarship that makes a substantive contribution to the field.
3. Share knowledge and research in the field of special education with students in a clear and engaging manner; effectively communicate with students within an outside of class; advance contributions of the field of special education to society.
4. Communicate complex ideas in a clear and understandable manner to a variety of audiences.

- Demonstrate the ability to work well with others, participate in professional organizations, adhere to ethical standards of research protocol and professional behavior.

- Students' programs may include at least one appropriate graduate-level minor or cognate as well as the major.

## Program Requirements

### Major Requirements

Code	Title	Credit Hours
<b>Major Requirements</b>		
SPED 70094	COLLEGE TEACHING	3
SPED 80001	SPECIAL EDUCATION RESIDENCY	3
SPED 80002	ANALYSIS OF THE LITERATURE IN SPECIAL EDUCATION	3
SPED 80003	IMPLEMENTATION SCIENCE IN SPECIAL EDUCATION	3
SPED 80005	EMPIRICAL INVESTIGATIONS IN SPECIAL EDUCATION	3
SPED 80040	RESEARCH GRANT DEVELOPMENT FOR DISABILITY PROGRAMS	3
SPED 80092	PRACTICUM IN COLLEGE TEACHING	3
SPED 80199	DISSERTATION I <sup>2</sup>	30
SPED 83201	CONTEMPORARY ISSUES IN SPECIAL EDUCATION	3
SPED 83301	SINGLE-SUBJECT RESEARCH METHODS	3
Electives, choose from the following:		12
EVAL 75510	STATISTICS I FOR EDUCATIONAL SERVICES	
EVAL 78710	INTRODUCTION TO MEASUREMENT	
EVAL 78716	STATISTICS II: ANOVA AND NONPARAMETRIC TESTS	
EVAL 78728	MULTIPLE REGRESSION	
EVAL 85515	QUANTITATIVE RESEARCH DESIGN AND ANALYSIS	
EVAL 85516	QUALITATIVE RESEARCH DESIGN	
EVAL 85517	ADVANCED QUANTITATIVE RESEARCH IN EDUCATIONAL SERVICES	
EVAL 85518	ADVANCED QUALITATIVE RESEARCH IN EDUCATIONAL SERVICES	
EVAL 88791	SEMINAR: EVALUATION AND MEASUREMENT	
SPED 73204	LEGAL AND POLICY FOUNDATIONS OF SPECIAL EDUCATION	
SPED 83991	SEMINAR IN SPECIAL EDUCATION	
SPED 83998	RESEARCH:SPECIAL EDUCATION <sup>1</sup>	
Minimum Total Credit Hours:		69

<sup>1</sup> Research topic for SPED 83998 must be approved by and registered with a specific faculty member and approved by advisory committee.

<sup>2</sup> Upon admission to candidacy, each doctoral candidate must register for SPED 80199. It is expected that a doctoral candidate will continuously register for Dissertation I for a total of 30 credit hours, and thereafter SPED 80299 each semester until all requirements for the degree have been met.

### Graduation Requirements

- After admission to the Ph.D. degree program, students plan a program of study with their respective faculty advisory committee headed by their advisor.

## Special Education Deaf Education Additional Licensure Preparation - Non-Degree

### College of Education Health and Human Services

School of Lifespan Development and Educational Services

405 White Hall

Kent Campus

330-672-2294

[www.kent.edu/ehhs/ldes](http://www.kent.edu/ehhs/ldes)

### Description

This Special Education Deaf Education Additional Licensure Preparation non-degree program will prepare students to obtain an additional Special Education Deaf Education (Ohio Intervention Specialist Hearing Impaired) license. Completion of the coursework is a prerequisite to being recommended by Kent State University for licensure, and licenses are granted by the Ohio Department of Education (see 'Licensure Information' below).

The Special Education Deaf Education licensure preparation program is designed for individuals who hold a current teaching license and are seeking an additional license in Deaf Education to teach deaf and hard-of-hearing students ages 3-21 (grades preK-12).

The non-degree program is not a master's degree program. Students interested in obtaining a teaching license and a master's degree from Kent State University must also be fully admitted into a master's degree program and complete the prescribed coursework on the master's degree prospectus, in addition to courses that are prescribed here for licensure.

### Fully Offered At:

- Kent Campus

### Admission Requirements

- Bachelor's degree from an accredited institution
- Official transcript(s)
- Minimum 3.000 GPA
- Goal statement
- Two letters of recommendation
- Questions in Anticipation of Licensure form
- Evidence of current 4-Year Resident Educator or 5-Year Professional State of Ohio teaching license

### Program Learning Outcomes

Completers of this non-degree program will be able to:

- Demonstrate knowledge of: learner development and individual learning differences; the learning environment; curricular content knowledge; assessment; instructional planning and strategies, and professional practice and collaboration.
- Demonstrate the dispositions necessary to be successful special education teachers/professionals.

3. Demonstrate preparation for the profession by successfully completing the Ohio Assessment for Educators (OAE) Special Education Ass

## Program Requirements

### Licensure Requirements

Code	Title	Credit Hours
<b>Prerequisites</b>		
ASL 19201	ELEMENTARY AMERICAN SIGN LANGUAGE I	
ASL 19202	ELEMENTARY AMERICAN SIGN LANGUAGE II	
<b>Licensure Requirements</b>		
ASL 29201	INTERMEDIATE AMERICAN SIGN LANGUAGE I	3
ASL 29202	INTERMEDIATE AMERICAN SIGN LANGUAGE II	3
SPED 53010	FAMILY AND PROFESSIONAL COLLABORATION	3
SPED 53030	APPLIED BEHAVIOR ANALYSIS I: THEORY AND TECHNIQUES	3
SPED 53092	DEAF RESIDENTIAL SCHOOL FIELD EXPERIENCE	1
SPED 53306	FUNDAMENTALS OF AUDIOLOGY FOR STUDENTS WITH HEARING LOSS	3
SPED 53307	LISTENING, LANGUAGE AND PHONEMIC DEVELOPMENT FOR INDIVIDUALS WITH HEARING LOSS	3
SPED 53309	INTRODUCTION TO DEAF STUDIES	3
SPED 53310	LANGUAGE DEVELOPMENT FOR DEAF AND HARD-OF-HEARING STUDENTS	3
SPED 53311	INSTRUCTION OF DEAF/HARD-OF-HEARING STUDENTS WITH SPECIAL NEEDS	3
SPED 53313	LITERACY ASSESSMENT AND INTERVENTION FOR DEAF/HARD-OF-HEARING STUDENTS	6
SPED 53324	CURRICULUM METHODS AND MATERIALS FOR DEAF/HARD OF HEARING STUDENTS	3
SPED 63392	PRACTICUM IN DEAF EDUCATION	6
SPED 63992	STUDENT TEACHING IN SPECIAL EDUCATION	4
Minimum Total Credit Hours:		47

### Progression Requirements

- Must maintain a minimum 3.000 overall GPA

### Graduation Requirements

- Minimum 3.000 major GPA
- Minimum 3.000 overall GPA
- Successful completion of the Sign Language Proficiency Interview (SLPI ) at the Intermediate level or above.
- Additional Coursework: An analysis of additional content-area coursework required at the post-undergraduate level will be completed before entering into the program, and a Plan of Study will be created based on transcript analysis and current licensure requirements by the Ohio Department of Education. A minimum B grade is required in each of these courses. This coursework would be in addition to requirements for the Special Education Deaf-Education non-degree program.

### Licensure Information

Prior to program completion, the candidate must demonstrate proficiencies in the following areas (including but not limited to): Data

literacy and analysis, use of research and assessment data, leadership and collaboration, utilizing and supporting appropriate technology for the discipline, and application of professional dispositions, laws and policies, codes of ethics and professional standards appropriate to their field of specialization.

Candidates seeking Ohio teaching licensure are required to pass specific requirements in order to apply for licensure from the Ohio Department of Education (ODE). Students should consult the Special Education Department for specific program requirements and refer to the Ohio Department of Education - Educator Preparation website for more information on assessments specific to licensure type.

## Special Education Deaf Education Initial Licensure Preparation - Non-Degree

### College of Education Health and Human Services

School of Lifespan Development and Educational Services  
405 White Hall  
Kent Campus  
330-672-2294  
[www.kent.edu/ehhs/ldes](http://www.kent.edu/ehhs/ldes)

### Description

The Special Education Deaf Education Initial Licensure Preparation non-degree program will prepare students to obtain an initial teaching license in Special Education Deaf Education (Ohio Intervention Specialist Hearing Impaired). Completion of the coursework is a prerequisite to being recommended by Kent State University for licensure, and licenses are granted by the Ohio Department of Education (see 'Licensure Information,' below).

The Special Education Deaf Education licensure preparation program is designed for individuals who have a bachelor's degree and want to teach deaf and hard-of-hearing students ages 3-21 (grades pre-K-1 2).

The non-degree program is not a master's degree program. If you are interested in a master's degree in Special Education from KSU in addition to licensure, you must be fully admitted into the master's program and complete the prescribed coursework on the master's degree plan of study form in addition to the courses prescribed for Licensure. Completing a master's degree in special education in addition to licensure will in most cases require an additional 15-18 credit hours.

### Fully Offered At:

- Kent Campus

### Admission Requirements

Applicants will be assessed holistically, considering academic credentials; standardized test scores of reading, writing and mathematics; academic or professional references; non-academic criteria; and other specific program criteria .

- Bachelor's degree from an accredited institution
- Minimum 3.000 GPA
- Official Transcripts
- Goal Statement



- Two letters of recommendation
- Questions in Anticipation of Licensure form
- Praxis Core tests in reading , writing, and mathematics<sup>1</sup>

<sup>1</sup> All initial teacher licensure candidates are required to demonstrate basic competency in reading, writing and mathematics prior to admission. To demonstrate these competencies, students are required to take the Praxis Core tests in Reading, Mathematics, and Writing unless exempted by GRE scores fewer than five years old at the time of application. In order to gain exemption from Praxis CORE requirements, a student must achieve at or above the 50th percentile scores on the GRE Verbal, Quantitative, and Analytical Writing tests. Students who have not taken the GRE are strongly encouraged to take the Praxis CORE tests to demonstrate these competencies, rather than GRE. Further information is available in the Office of Graduate Student Services, 418 White Hall.

#### Competency Test Equivalents:

- Reading: GRE Verbal Reasoning/Praxis CORE Reading
- Mathematics: GRE Quantitative Reasoning, Praxis CORE Mathematics
- Writing: GRE Analytical Writing, Praxis CORE Writing

## Program Learning Outcomes

Completers of this non-degree program will be able to:

1. Demonstrate knowledge of: learner development and individual learning differences; the learning environment; curricular content knowledge; assessment; instructional planning and strategies, and professional practice and collaboration.
2. Demonstrate the dispositions necessary to be a successful special education teacher/professional
3. Demonstrate preparation for the profession by successfully completing the Ohio Assessment for Educators (OAE) Special Education Assessment.

## Program Requirements

### Licensure Requirements

Code	Title	Credit Hours
<b>Prerequisites</b>		
ASL 19201	ELEMENTARY AMERICAN SIGN LANGUAGE I	
ASL 19202	ELEMENTARY AMERICAN SIGN LANGUAGE II	
<b>Licensure Requirements</b>		
ASL 29201	INTERMEDIATE AMERICAN SIGN LANGUAGE I	3
ASL 29202	INTERMEDIATE AMERICAN SIGN LANGUAGE II	3
CI 57501	TEACHING MATHEMATICS IN EARLY AND MIDDLE GRADES	3
or MCED 30002	INTEGRATED SOCIAL STUDIES AND SCIENCE IN MIDDLE CHILDHOOD	
CI 57505	INTEGRATED SOCIAL STUDIES AND SCIENCE	3
CI 67310	THEORY AND PRACTICE IN THE TEACHING OF READING	3
or CI 57504	TEACHING READING AND WRITING IN MIDDLE GRADES	
SPED 53010	FAMILY AND PROFESSIONAL COLLABORATION	3
SPED 53030	APPLIED BEHAVIOR ANALYSIS I: THEORY AND TECHNIQUES	3
SPED 53092	DEAF RESIDENTIAL SCHOOL FIELD EXPERIENCE	1

SPED 53306	FUNDAMENTALS OF AUDIOLOGY FOR STUDENTS WITH HEARING LOSS	3
SPED 53307	LISTENING, LANGUAGE AND PHONEMIC DEVELOPMENT FOR INDIVIDUALS WITH HEARING LOSS	3
SPED 53309	INTRODUCTION TO DEAF STUDIES	3
SPED 53310	LANGUAGE DEVELOPMENT FOR DEAF AND HARD-OF-HEARING STUDENTS	3
SPED 53311	INSTRUCTION OF DEAF/HARD-OF-HEARING STUDENTS WITH SPECIAL NEEDS	3
SPED 53313	LITERACY ASSESSMENT AND INTERVENTION FOR DEAF/HARD-OF-HEARING STUDENTS	6
SPED 53324	CURRICULUM METHODS AND MATERIALS FOR DEAF/HARD OF HEARING STUDENTS	3
SPED 63200	INTRODUCTION TO EXCEPTIONALITIES	3
SPED 63392	PRACTICUM IN DEAF EDUCATION	3
SPED 63992	STUDENT TEACHING IN SPECIAL EDUCATION <sup>1</sup>	8
SPED 69525	INQUIRY PROFESSIONAL PRACTICE	3
Minimum Total Credit Hours:		63

<sup>1</sup> Student teaching is taken after completion of all licensure coursework and in conjunction with the Inquiry to Professional Practice course. Teacher candidates are only permitted to repeat a field experience course once. Please see Repeating Field Experience Courses in Teacher Education Programs policy for details.

### Progression Requirements

- Must maintain a minimum 3.000 overall GPA

### Graduation Requirements

- Minimum 3.000 major GPA
- Minimum 3.000 overall GPA
- Successful completion of the Sign Language Proficiency Interview (SLPI) at the Intermediate level or above

### Licensure Information

Candidates seeking Ohio teaching licensure are required to pass specific requirements in order to apply for licensure from the Ohio Department of Education (ODE). Students should consult the Special Education Department for specific program requirements and refer to the Ohio Department of Education - Educator Preparation website for more information on assessments specific to licensure type.

## Special Education Early Childhood (PK-5) Additional Licensure Preparation - Non-Degree

### College of Education Health and Human Services

School of Lifespan Development and Educational Services  
405 White Hall  
Kent Campus  
330-672-2294  
[www.kent.edu/ehhs/ldes](http://www.kent.edu/ehhs/ldes)

## Description

The Special Education Early Childhood (PK-5) Additional Licensure Preparation non-degree program will prepare students to obtain an additional Ohio Early Childhood Intervention Specialist (PK-5) license. Completion of the coursework is a prerequisite to being recommended by Kent State University for licensure, and licenses are granted by the Ohio Department of Education (see 'Licensure Information' below).

The Special Education Early Childhood licensure preparation program is designed for individuals who have a current teaching license and are seeking an additional license to work with young children with diverse learning abilities in a variety of special education settings, from pre-kindergarten through grade 5.

The non-degree program is not a master's degree program. Students interested in obtaining a teaching license and a master's degree from Kent State University must also be fully admitted into the master's degree program and complete the prescribed coursework on the master's degree prospectus, in addition to courses that are prescribed here for licensure.

### Fully Offered At:

- Kent Campus

## Admission Requirements

- Bachelor's degree from an accredited institution
- Minimum 3.000 G PA
- Official transcript(s)
- Goal statement
- Two letters of recommendation
- Questions in Anticipation of Licensure form
- Evidence of current 4-Year Resident Educator or 5-Year Professional State of Ohio teaching license

## Program Learning Outcomes

Completers of this program will be able to:

- Demonstrate knowledge and skills of: learner development and individual learning differences; the learning environment; curricular content knowledge; assessment; instructional planning and strategies, and professional practice and collaboration.
- Demonstrate the dispositions necessary to be successful special education teachers/professionals.
- Demonstrate preparation for the profession by successfully completing the Ohio Assessment for Educators (OAE)

## Program Requirements

### Licensure Requirements

Code	Title	Credit Hours
<b>Licensure Requirements</b>		
ASL 19201	ELEMENTARY AMERICAN SIGN LANGUAGE I	4
SPED 24000	INCLUSIVE PRACTICES	3
SPED 53040	LANGUAGE AND READING IN SPECIAL EDUCATION	3
SPED 53062	CURRICULUM METHODS MILD/MODERATE INTERVENTION	3

SPED 63950	CURRICULUM AND INTERVENTION IN EARLY CHILDHOOD SERVICES	3
SPED 63952	FAMILY AND PROFESSIONAL COLLABORATION IN EARLY CHILDHOOD	3
SPED 63954	PRACTICAL APPLICATIONS: TEAMING	3
SPED 63955	TYPICAL AND ATYPICAL DEVELOPMENT IN YOUNG CHILDREN	3
SPED 63956	FOUNDATIONS IN EARLY CHILDHOOD SERVICES	3
SPED 63957	ASSESSMENT AND EVALUATION OF EARLY CHILDHOOD SERVICES	3
SPED 63992	STUDENT TEACHING IN SPECIAL EDUCATION	4
SPED 64892	ADVANCED PRACTICUM	3
SPED 64951	DEVELOPING AN INDIVIDUALIZED FAMILY SERVICE PLAN AND INDIVIDUALIZED EDUCATION PROGRAM	3
Minimum Total Credit Hours:		41

### Progression Requirements

- Must maintain a minimum 3.000 overall GPA

### Graduation Requirements

- Minimum 3.000 major GPA
- Minimum 3.000 overall GPA
- Additional Coursework: An analysis of additional content-area coursework required at the post-undergraduate level will be completed before entering into the program, and a Plan of Study will be created based on transcript analysis and current licensure requirements by the Ohio Department of Education. A minimum B grade is required in each of these courses. This coursework would be in addition to requirements for the Early Childhood Intervention Specialist non-degree program.

### Licensure Information

Prior to program completion, the candidate must demonstrate proficiencies in the following areas (including but not limited to): Data literacy and analysis, use of research and assessment data, leadership and collaboration, utilizing and supporting appropriate technology for the discipline, and application of professional dispositions, laws and policies, codes of ethics and professional standards appropriate to their field of specialization.

Candidates seeking Ohio teaching licensure are required to pass specific requirements in order to apply for licensure from the Ohio Department of Education (ODE). Students should consult the Special Education Department for specific program requirements and refer to the Ohio Department of Education - Educator Preparation website for more information on assessments specific to licensure type.

## Special Education Early Childhood (PK-5) Initial Licensure Preparation - Non-Degree

**College of Education Health and Human Services**  
 School of Lifespan Development and Educational Services  
 405 White Hall  
 Kent Campus  
 330-672-2294

www.kent.edu/ehhs/ldes

## Description

The Special Education Early Childhood (PK-5) Initial Licensure Preparation non-degree program prepares students to obtain an initial teaching license in Ohio Early Childhood Intervention Specialist (PK-5). Completion of the coursework is a prerequisite to being recommended by Kent State University for endorsement, which is granted by the Ohio Department of Education.

The Special Education Early Childhood licensure preparation program is designed for individuals who have a bachelor's degree and want to work with young children with diverse learning abilities in a variety of special education settings, from pre-kindergarten through grade 5.

The non-degree program is not a master's degree program. Students interested in obtaining a teaching license and a master's degree from Kent State University must also be fully admitted into and complete the requirements for the master's degree program in addition to courses that are prescribed for licensure.

### Fully Offered At:

- Kent Campus

## Admission Requirements

Applicants will be assessed holistically, considering academic credentials; standardized test scores of reading, writing and mathematics; academic or professional references; non-academic criteria; and other specific program criteria .

- Bachelor's degree from an accredited institution
- Minimum 3.000 GPA
- Official Transcripts
- Goal Statement
- Two letters of recommendation
- Questions in Anticipation of Licensure form
- Praxis Core tests in reading , writing, and mathematics<sup>1</sup>

<sup>1</sup> All initial teacher licensure candidates are required to demonstrate basic competency in reading, writing and mathematics prior to admission. To demonstrate these competencies, students are required to take the Praxis Core tests in Reading, Mathematics, and Writing unless exempted by GRE scores fewer than five years old at the time of application. In order to gain exemption from Praxis CORE requirements, a student must achieve at or above the 50th percentile scores on the GRE Verbal, Quantitative, and Analytical Writing tests. Students who have not taken the GRE are strongly encouraged to take the Praxis CORE tests to demonstrate these competencies, rather than GRE. Further information is available in the Office of Graduate Student Services, 418 White Hall.

#### Competency Test Equivalents:

- Reading: GRE Verbal Reasoning/Praxis CORE Reading
- Mathematics: GRE Quantitative Reasoning, Praxis CORE Mathematics
- Writing: GRE Analytical Writing, Praxis CORE Writing

## Program Learning Outcomes

Completers of this non-degree program will be able to:

1. Demonstrate knowledge of learner development and individual learning differences; the learning environment; curricular content knowledge; assessment; instructional planning and strategies, and professional practice and collaboration.
2. Demonstrate the dispositions necessary to be a successful special education teacher/professional.
3. Demonstrate preparation for the profession by successfully completing the Ohio Assessment for Educators (OAE) Special Education Assessment.

## Program Requirements

### Licensure Requirements

Code	Title	Credit Hours
<b>Licensure Requirements</b>		
ASL 19201	ELEMENTARY AMERICAN SIGN LANGUAGE I	4
CI 57501	TEACHING MATHEMATICS IN EARLY AND MIDDLE GRADES	3
ECED 50105	APPROPRIATE PHONICS INSTRUCTION FOR KINDERGARTEN AND PRIMARY CHILDREN	3
or ECED 50302	APPROPRIATE PHONICS INSTRUCTION AND WORD STUDY	
MCED 30002	INTEGRATED SOCIAL STUDIES AND SCIENCE IN MIDDLE CHILDHOOD	3
SPED 24000	INCLUSIVE PRACTICES	3
SPED 53040	LANGUAGE AND READING IN SPECIAL EDUCATION	3
SPED 53062	CURRICULUM METHODS MILD/MODERATE INTERVENTION	3
SPED 63950	CURRICULUM AND INTERVENTION IN EARLY CHILDHOOD SERVICES	3
SPED 63952	FAMILY AND PROFESSIONAL COLLABORATION IN EARLY CHILDHOOD	3
SPED 63954	PRACTICAL APPLICATIONS: TEAMING	3
SPED 63955	TYPICAL AND ATYPICAL DEVELOPMENT IN YOUNG CHILDREN	3
SPED 63956	FOUNDATIONS IN EARLY CHILDHOOD SERVICES	3
SPED 63957	ASSESSMENT AND EVALUATION OF EARLY CHILDHOOD SERVICES	3
SPED 63992	STUDENT TEACHING IN SPECIAL EDUCATION <sup>1</sup>	8
SPED 64892	ADVANCED PRACTICUM	3
SPED 64951	DEVELOPING AN INDIVIDUALIZED FAMILY SERVICE PLAN AND INDIVIDUALIZED EDUCATION PROGRAM	3
SPED 69525	INQUIRY PROFESSIONAL PRACTICE	3
Program Electives, choose from the following:		6
CI 57504	TEACHING READING AND WRITING IN MIDDLE GRADES	
CI 67315	SURVEY OF CHILDREN'S LITERATURE	
ECED 50105	APPROPRIATE PHONICS INSTRUCTION FOR KINDERGARTEN AND PRIMARY CHILDREN	
or ECED 50302	APPROPRIATE PHONICS INSTRUCTION AND WORD STUDY	
ECED 50126	DEVELOPMENTAL READING AND WRITING: THE EARLY YEARS	
or ECED 50402	DEVELOPMENTAL READING AND WRITING IN THE ELEMENTARY YEARS	

MCED 50007	TEACHING READING WITH LITERATURE IN MIDDLE CHILDHOOD	
Minimum Total Credit Hours:		63

<sup>1</sup> Student teaching is taken after completion of all licensure coursework and in conjunction with the Inquiry to Professional Practice course. Teacher candidates are only permitted to repeat a field experience course once. Please see Repeating Field Experience Courses in Teacher Education Programs policy for details.

### Progression Requirements

- Must maintain 3.000 overall GPA

### Graduation Requirements

Minimum Major GPA	Minimum Overall GPA
3.000	3.000

### Licensure Information

Candidates seeking Ohio teaching licensure are required to pass specific requirements in order to apply for licensure from the Ohio Department of Education (ODE). Students should consult the Special Education Department for specific program requirements and refer to the Ohio Department of Education - Educator Preparation website for more information on assessments specific to licensure type.

## Special Education Mild/Moderate Needs Additional Licensure Preparation - Non-Degree

**College of Education Health and Human Services**  
 School of Lifespan Development and Educational Services  
 405 White Hall  
 Kent Campus  
 330-672-2294  
[www.kent.edu/ehhs/ldes](http://www.kent.edu/ehhs/ldes)

### Description

The Special Education Mild/Moderate Needs Additional Licensure Preparation non-degree program will prepare students to obtain an additional Special Education Mild/Moderate Educational Needs (Ohio Intervention Specialist) license. Completion of the coursework is a prerequisite to being recommended by Kent State University for licensure, and licenses are granted by the Ohio Department of Education (see 'Licensure Information' below).

The Mild/Moderate licensure preparation program is designed for individuals who have a current teaching license and want to become licensed through the State of Ohio to teach students with mild/moderate disabilities, grades K-12. Students with mild/moderate disabilities are distinguished from students with more severe disabilities by greater participation in the general academic curriculum. Mild/moderate disabilities include learning disabilities, emotional and behavioral disorders, ADHD, mild intellectual disabilities, and (in certain cases) autism spectrum disorder.

The non-degree program is not a master's degree program. If you are interested in a master's degree in Special Education from KSU in addition

to licensure, you must be fully admitted into the master's program and complete the prescribed coursework on the master's degree plan of study form in addition to the courses prescribed for Licensure. Completing a master's degree in special education in addition to licensure will in most cases require an additional 15-18 credit hours.

### Fully Offered At:

- Kent Campus

### Admission Requirements

- Admission Requirements
- Bachelor's degree from an accredited institution
- Minimum 3.000 GPA
- Official Transcripts
- Goal Statement
- Two letters of recommendation
- Questions in Anticipation of Licensure form
- Evidence of valid 4-Year Resident Educator or 5-Year Professional State of Ohio teaching license

### Program Learning Outcomes

Completers of this non-degree program will be able to:

1. Demonstrate knowledge of: learner development and individual learning differences; the learning environment; curricular content knowledge; assessment; instructional planning and strategies, and professional practice and collaboration.
2. Demonstrate the dispositions necessary to be a successful special education teacher/professional
3. Demonstrate preparation for the profession by successfully completing the Ohio Assessment for Educators (OAE) Special Education Assessment.

### Program Requirements

#### Licensure Requirements

Code	Title	Credit Hours
<b>Licensure Requirements</b>		
SPED 24000	INCLUSIVE PRACTICES	3
SPED 53010	FAMILY AND PROFESSIONAL COLLABORATION	3
SPED 53021	ASSESSMENT FOR SPECIAL EDUCATION	3
SPED 53030	APPLIED BEHAVIOR ANALYSIS I: THEORY AND TECHNIQUES	3
SPED 53031	APPLIED BEHAVIOR ANALYSIS II: APPLICATION	3
SPED 53040	LANGUAGE AND READING IN SPECIAL EDUCATION	3
SPED 53050	CHARACTERISTICS OF STUDENTS WITH MILD/MODERATE INTERVENTION NEEDS	3
SPED 53062	CURRICULUM METHODS MILD/MODERATE INTERVENTION	3
SPED 53070	PLANNING AND PROGRAMMING FOR TRANSITIONS	3
SPED 63092	FIELD EXPERIENCE IN SPECIAL EDUCATION	3
SPED 63992	STUDENT TEACHING IN SPECIAL EDUCATION	4

SPED 64951	DEVELOPING AN INDIVIDUALIZED FAMILY SERVICE PLAN AND INDIVIDUALIZED EDUCATION PROGRAM	3
Minimum Total Credit Hours:		37

## Progression Requirements

- Must maintain a minimum 3.000 overall GPA

## Graduation Requirements

- Minimum 3.000 major GPA
- Minimum 3.000 overall GPA
- Additional Coursework: An analysis of additional content-area coursework required at the post-undergraduate level will be completed before entering into the program, and a Plan of Study will be created based on transcript analysis and current licensure requirements by the Ohio Department of Education. A minimum C grade is required in each of these courses. This coursework would be in addition to requirements for the Special Education non-degree program.

## Licensure Information

Prior to program completion, the candidate must demonstrate proficiencies in the following areas (including but not limited to): Data literacy and analysis, use of research and assessment data, leadership and collaboration, utilizing and supporting appropriate technology for the discipline, and application of professional dispositions, laws and policies, codes of ethics and professional standards appropriate to their field of specialization.

Candidates seeking Ohio teaching licensure are required to pass specific requirements in order to apply for licensure from the Ohio Department of Education (ODE). The candidate must earn the qualifying score on the Ohio Assessments for Educators. Students should consult the Special Education Department for specific program requirements and refer to the Ohio Department of Education - Educator Preparation website for more information on assessments specific to licensure type.

## Special Education Mild/Moderate Needs Initial Licensure Preparation - Non-Degree

### College of Education Health and Human Services

School of Lifespan Development and Educational Services  
405 White Hall  
Kent Campus  
330-672-2294  
[www.kent.edu/ehhs/ldes](http://www.kent.edu/ehhs/ldes)

## Description

The Special Education Mild/Moderate Needs Initial Licensure Preparation non-degree program prepares students to obtain an initial teacher license in Special Education Mild/Moderate Educational Needs (Ohio Intervention Specialist). Completion of the coursework is a prerequisite to being recommended by Kent State University for licensure, which is granted by the Ohio Department of Education.

The mild/moderate licensure preparation program is designed for individuals who have a bachelor's degree and want to become licensed through the State of Ohio to teach students with mild/moderate disabilities. Students with mild/moderate disabilities are distinguished from students with more severe disabilities by greater participation in the general academic curriculum. Mild/moderate disabilities include learning disabilities, emotional and behavioral disorders, ADHD, mild intellectual disabilities and (in certain cases) autism spectrum disorder.

The non-degree program is not a master's degree program. Students who are interested in a master's degree in special education from Kent State, in addition to licensure, must be fully admitted into and complete the requirements for the master's program in addition to the courses prescribed for licensure. Completing a master's degree in special education in addition to licensure will, in most cases, require an additional 15-18 credit hours.

## Fully Offered At:

- Kent Campus

## Admission Requirements

Applicants will be assessed holistically, considering academic credentials; standardized test scores of reading, writing and mathematics; academic or professional references; non-academic criteria; and other specific program dimensions.

- Bachelor's degree from an accredited institution
- Minimum 3.000 GPA
- Official Transcripts
- Goal Statement
- Two letters of recommendation
- Questions in Anticipation of Licensure form
- Praxis Core tests in reading, writing, and mathematics<sup>1</sup>

<sup>1</sup> All initial teacher licensure candidates are required to demonstrate basic competency in reading, writing and mathematics prior to admission. To demonstrate these competencies, students are required to take the Praxis Core tests in Reading, Mathematics, and Writing unless exempted by GRE scores fewer than five years old at the time of application. In order to gain exemption from Praxis CORE requirements, a student must achieve at or above the 50th percentile scores on the GRE Verbal, Quantitative, and Analytical Writing tests. Students who have not taken the GRE are strongly encouraged to take the Praxis CORE tests to demonstrate these competencies, rather than GRE. Further information is available in the Office of Graduate Student Services, 418 White Hall.

### Competency Test Equivalents:

- Reading: GRE Verbal Reasoning/Praxis CORE Reading
- Mathematics: GRE Quantitative Reasoning, Praxis CORE Mathematics
- Writing: GRE Analytical Writing, Praxis CORE Writing

## Program Learning Outcomes

Completers of this non-degree program will be able to:

- Demonstrate knowledge of learner development and individual learning differences; the learning environment; curricular content knowledge; assessment; instructional planning and strategies, and professional practice and collaboration.
- Demonstrate the dispositions necessary to be a successful special education teacher/professional.



- Demonstrate preparation for the profession by successfully completing the Ohio Assessment for Educators (OAE) Special Education Assessment.

## Program Requirements

### Licensure Requirements

Code	Title	Credit Hours
<b>Licensure Requirements (min C grade is required in all courses)</b>		
CI 57501	TEACHING MATHEMATICS IN EARLY AND MIDDLE GRADES	3
ECED 50105	APPROPRIATE PHONICS INSTRUCTION FOR KINDERGARTEN AND PRIMARY CHILDREN	3
or ECED 50302	APPROPRIATE PHONICS INSTRUCTION AND WORD STUDY	
or MCED 50005	EFFECTIVE USE OF PHONICS IN READING	
SPED 24000	INCLUSIVE PRACTICES	3
SPED 53010	FAMILY AND PROFESSIONAL COLLABORATION	3
SPED 53021	ASSESSMENT FOR SPECIAL EDUCATION	3
SPED 53030	APPLIED BEHAVIOR ANALYSIS I: THEORY AND TECHNIQUES	3
SPED 53031	APPLIED BEHAVIOR ANALYSIS II: APPLICATION	3
SPED 53040	LANGUAGE AND READING IN SPECIAL EDUCATION	3
SPED 53050	CHARACTERISTICS OF STUDENTS WITH MILD/MODERATE INTERVENTION NEEDS	3
SPED 53062	CURRICULUM METHODS MILD/MODERATE INTERVENTION	3
SPED 53070	PLANNING AND PROGRAMMING FOR TRANSITIONS	3
SPED 63092	FIELD EXPERIENCE IN SPECIAL EDUCATION	3
SPED 63200	INTRODUCTION TO EXCEPTIONALITIES	3
SPED 63992	STUDENT TEACHING IN SPECIAL EDUCATION <sup>1</sup>	8
SPED 64951	DEVELOPING AN INDIVIDUALIZED FAMILY SERVICE PLAN AND INDIVIDUALIZED EDUCATION PROGRAM	3
SPED 69525	INQUIRY PROFESSIONAL PRACTICE	3
Choose from the following:		
CI 57504	TEACHING READING AND WRITING IN MIDDLE GRADES	6
CI 67310	THEORY AND PRACTICE IN THE TEACHING OF READING	
CI 67312	TEACHING WRITING AS A PROCESS	
or CI 67330	READING IN CONTENT AREAS	
CI 67319	DIAGNOSIS AND REMEDIATION IN READING	
Minimum Total Credit Hours:		59

<sup>1</sup> Student teaching is taken after completion of all licensure coursework and in conjunction with the Inquiry to Professional Practice course. Teacher candidates are only permitted to repeat a field experience course once. Please see Repeating Field Experience Courses in Teacher Education Programs policy for details.

### Progression Requirements

- Must maintain a minimum 3.000 overall GPA.

## Graduation Requirements

Minimum Major GPA	Minimum Overall GPA
3.000	3.000

## Licensure Information

Candidates seeking Ohio teaching licensure are required to pass specific requirements in order to apply for licensure from the Ohio Department of Education (ODE). The candidate must earn the qualifying score on the Ohio Assessments for Educators. Students should consult the Special Education Department for specific program requirements and refer to the Ohio Department of Education - Educator Preparation website for more information on assessments specific to licensure type.

## Special Education Moderate/Intensive Needs Additional Licensure Preparation - Non-Degree

**College of Education Health and Human Services**  
 School of Lifespan Development and Educational Services  
 405 White Hall  
 Kent Campus  
 330-672-2294  
[www.kent.edu/ehhs/ldes](http://www.kent.edu/ehhs/ldes)

## Description

The Special Education Moderate/Intensive Needs Additional Licensure Preparation non-degree program will prepare students to obtain an additional Special Education Moderate/Intensive Needs (Ohio Intervention Specialist) license. Completion of the coursework is a prerequisite to being recommended by Kent State University for licensure, and licenses are granted by the Ohio Department of Education.

The Moderate/Intensive licensure preparation program is designed for individuals who have a current teaching license and want to teach students requiring intensive and ongoing special education support. Most often, these will be students with intellectual disabilities, autism spectrum disorder, multiple disabilities and complex health impairments.

The non-degree program is not a master's degree program. If you are interested in a master's degree in Special Education from KSU in addition to licensure, you must be fully admitted into the master's program and complete the prescribed coursework on the master's degree plan of study form in addition to the courses prescribed for Licensure. Completing a master's degree in special education in addition to licensure will in most cases require an additional 15-18 credit hours.

## Fully Offered At:

- Kent Campus

## Admission Requirements

- Bachelor's degree from an accredited institution
- Minimum 3.000 GPA
- Official Transcripts
- Goal Statement
- Two letters of recommendation
- Questions in Anticipation of Licensure form

- Evidence of valid 4-Year Resident Educator or 5-Year Professional State of Ohio teaching license

be in addition to requirements for the Special Education Moderate/Intensive Needs non-degree program.

## Program Learning Outcomes

Completers of this non-degree program will be able to:

- Demonstrate knowledge of: learner development and individual learning differences; the learning environment; curricular content knowledge; assessment; instructional planning and strategies, and professional practice and collaboration.
- Demonstrate the dispositions necessary to be successful special education teachers/professionals.
- Demonstrate preparation for the profession by successfully completing the Ohio Assessment for Educators (OAE) Special Education Assessment.

## Program Requirements

### Licensure Requirements

Code	Title	Credit Hours
<b>Licensure Requirements</b>		
SPED 53010	FAMILY AND PROFESSIONAL COLLABORATION	3
SPED 53021	ASSESSMENT FOR SPECIAL EDUCATION	3
SPED 53030	APPLIED BEHAVIOR ANALYSIS I: THEORY AND TECHNIQUES	3
SPED 53031	APPLIED BEHAVIOR ANALYSIS II: APPLICATION	3
SPED 53040	LANGUAGE AND READING IN SPECIAL EDUCATION	3
SPED 53051	CHARACTERISTICS OF STUDENTS WITH MODERATE/INTENSIVE INTERVENTION NEEDS	3
SPED 53063	CURRICULUM METHODS MODERATE/INTENSIVE INTERVENTION	3
SPED 53070	PLANNING AND PROGRAMMING FOR TRANSITIONS	3
SPED 53080	ASSISTIVE TECHNOLOGY FOR STUDENTS WITH DISABILITIES	3
SPED 63092	FIELD EXPERIENCE IN SPECIAL EDUCATION	3
SPED 63992	STUDENT TEACHING IN SPECIAL EDUCATION	4
SPED 64309	AUTISM SPECTRUM DISORDERS: THEORY AND DIAGNOSIS	3
SPED 64951	DEVELOPING AN INDIVIDUALIZED FAMILY SERVICE PLAN AND INDIVIDUALIZED EDUCATION PROGRAM	3
Minimum Total Credit Hours:		40

### Progression Requirements

- Must maintain a minimum 3.000 overall GPA

### Graduation Requirements

- Minimum 3.000 overall GPA
- Additional Coursework: An analysis of additional content-area coursework required at the post-undergraduate level will be completed before entering into the program, and a Plan of Study will be created based on transcript analysis and current licensure requirements by the Ohio Department of Education. A minimum B grade is required in each of these courses. This coursework would

### Licensure Information

Prior to program completion, the candidate must demonstrate proficiencies in the following areas (including but not limited to): Data literacy and analysis, use of research and assessment data, leadership and collaboration, utilizing and supporting appropriate technology for the discipline, and application of professional dispositions, laws and policies, codes of ethics and professional standards appropriate to their field of specialization.

Candidates seeking Ohio teaching licensure are required to pass specific requirements in order to apply for licensure from the Ohio Department of Education (ODE). The candidate must earn the qualifying score on the Ohio Assessments for Educators. Students should consult the Special Education Department for specific program requirements and refer to the Ohio Department of Education - Educator Preparation website for more information on assessments specific to licensure type.

## Special Education Moderate/Intensive Needs Initial Licensure Preparation - Non-Degree

### College of Education Health and Human Services

School of Lifespan Development and Educational Services  
405 White Hall  
Kent Campus  
330-672-2294  
[www.kent.edu/ehhs/ldes](http://www.kent.edu/ehhs/ldes)

### Description

The Special Education Moderate/Intensive Needs Initial Licensure Preparation non-degree program prepares students to obtain an initial teacher license in Special Education Moderate/Intensive Needs (Ohio Intervention Specialist). Completion of the coursework is a prerequisite to being recommended by Kent State University for licensure, which are granted by the Ohio Department of Education.

The Moderate/Intensive licensure preparation program is designed for individuals who have a bachelor's degree and want to teach students requiring intensive and ongoing special education support. Most often, these are students with intellectual disabilities, autism spectrum disorder, multiple disabilities and complex health impairments.

The non-degree program is not a master's degree program. Students who are interested in a master's degree in special education from Kent State, in addition to licensure, must be fully admitted into and complete the requirements for the master's program in addition to the courses prescribed for licensure. Completing a master's degree in special education in addition to licensure will, in most cases, require an additional 15-18 credit hours.

### Fully Offered at:

- Kent Campus

### Admission Requirements

Applicants will be assessed holistically, considering academic credentials; standardized test scores of reading, writing and

mathematics; academic or professional references; non-academic criteria; and other specific program dimensions.

- Bachelor's degree from an accredited institution
- Minimum 3.000 GPA
- Official Transcripts
- Goal Statement
- Two letters of recommendation
- Questions in Anticipation of Licensure form
- Praxis Core tests in reading , writing, and mathematics<sup>1</sup>

<sup>1</sup> All initial teacher licensure candidates are required to demonstrate basic competency in reading, writing and mathematics prior to admission. To demonstrate these competencies, students are required to take the Praxis Core tests in Reading, Mathematics, and Writing unless exempted by GRE scores fewer than five years old at the time of application. In order to gain exemption from Praxis CORE requirements, a student must achieve at or above the 50th percentile scores on the GRE Verbal, Quantitative, and Analytical Writing tests. Students who have not taken the GRE are strongly encouraged to take the Praxis CORE tests to demonstrate these competencies, rather than GRE. Further information is available in the Office of Graduate Student Services, 418 White Hall.

Competency Test Equivalents:

- Reading: GRE Verbal Reasoning/Praxis CORE Reading
- Mathematics: GRE Quantitative Reasoning, Praxis CORE Mathematics
- Writing: GRE Analytical Writing, Praxis CORE Writing

## Program Learning Outcomes

Completers of this non-degree program will be able to:

1. Demonstrate knowledge of: learner development and individual learning differences; the learning environment; curricular content knowledge; assessment; instructional planning and strategies, and professional practice and collaboration.
2. Demonstrate the dispositions necessary to be a successful special education teacher/professional
3. Demonstrate preparation for the profession by successfully completing the Ohio Assessment for Educators (OAE) Special Education Assessment.

## Program Requirements

### Licensure Requirements

Code	Title	Credit Hours
<b>Licensure Requirements (min C grade is required in all courses)</b>		
CI 57501	TEACHING MATHEMATICS IN EARLY AND MIDDLE GRADES	3
ECED 50105	APPROPRIATE PHONICS INSTRUCTION FOR KINDERGARTEN AND PRIMARY CHILDREN	3
or ECED 50302	APPROPRIATE PHONICS INSTRUCTION AND WORD STUDY	
or MCED 50005	EFFECTIVE USE OF PHONICS IN READING	
SPED 53010	FAMILY AND PROFESSIONAL COLLABORATION	3
SPED 53021	ASSESSMENT FOR SPECIAL EDUCATION	3
SPED 53030	APPLIED BEHAVIOR ANALYSIS I: THEORY AND TECHNIQUES	3
SPED 53031	APPLIED BEHAVIOR ANALYSIS II: APPLICATION	3

SPED 53040	LANGUAGE AND READING IN SPECIAL EDUCATION	3
SPED 53051	CHARACTERISTICS OF STUDENTS WITH MODERATE/INTENSIVE INTERVENTION NEEDS	3
SPED 53063	CURRICULUM METHODS MODERATE/INTENSIVE INTERVENTION	3
SPED 53070	PLANNING AND PROGRAMMING FOR TRANSITIONS	3
SPED 53080	ASSISTIVE TECHNOLOGY FOR STUDENTS WITH DISABILITIES	3
SPED 63092	FIELD EXPERIENCE IN SPECIAL EDUCATION	3
SPED 63992	STUDENT TEACHING IN SPECIAL EDUCATION <sup>1</sup>	8
SPED 63200	INTRODUCTION TO EXCEPTIONALITIES	3
SPED 64309	AUTISM SPECTRUM DISORDERS: THEORY AND DIAGNOSIS	3
SPED 64951	DEVELOPING AN INDIVIDUALIZED FAMILY SERVICE PLAN AND INDIVIDUALIZED EDUCATION PROGRAM	3
SPED 69525	INQUIRY PROFESSIONAL PRACTICE	3
Program Electives, choose from the following:		6
CI 57504	TEACHING READING AND WRITING IN MIDDLE GRADES	
CI 67310	THEORY AND PRACTICE IN THE TEACHING OF READING	
CI 67312	TEACHING WRITING AS A PROCESS	
or CI 67330	READING IN CONTENT AREAS	
CI 67319	DIAGNOSIS AND REMEDIATION IN READING	

Minimum Total Credit Hours: 62

<sup>1</sup> Student teaching is taken after completion of all licensure coursework and in conjunction with the Inquiry to Professional Practice course. Teacher candidates are only permitted to repeat a field experience course once. Please see Repeating Field Experience Courses in Teacher Education Programs policy for details.

### Progression Requirements

- Minimum 3.000 overall GPA throughout the program

### Graduation Requirements

Minimum Major GPA	Minimum Overall GPA
3.000	3.000

### Licensure Information

Candidates seeking Ohio teaching licensure are required to pass specific requirements in order to apply for licensure from the Ohio Department of Education (ODE). The candidate must earn the qualifying score on the Ohio Assessments for Educators. Students should consult the Special Education Department for specific program requirements and refer to the Ohio Department of Education - Educator Preparation website for more information on assessments specific to licensure type.

## Special Education Pre-K Special Needs Endorsement Preparation - Non-Degree

College of Education Health and Human Services  
 School of Lifespan Development and Educational Services  
 405 White Hall

Kent Campus  
330-672-2294  
www.kent.edu/ehhs/ldes

SPED 64951	DEVELOPING AN INDIVIDUALIZED FAMILY SERVICE PLAN AND INDIVIDUALIZED EDUCATION PROGRAM	3
Minimum Total Credit Hours:		24

## Description

The Special Education Pre-K Special Needs Endorsement Preparation non-degree program will prepare students to obtain the Ohio Pre-K Special Needs endorsement. Completion of the coursework is a prerequisite to being recommended by Kent State University for this endorsement and endorsements are granted by the Ohio Department of Education.

This program prepares students to apply for an endorsement which can be added to any Special Education Intervention Specialist license, the Early Childhood Education teaching license and/or the Pre-K validation. The endorsement provides teachers with the coursework and field experiences necessary to work effectively with preschool-aged children with disabilities in a variety of settings.

The non-degree program is not a master's degree program. Students interested in obtaining a teaching license and a master's degree from Kent State University must also be fully admitted into the master's degree program and complete the prescribed coursework on the master's degree prospectus, in addition to courses that are prescribed here for licensure.

### Fully Offered At:

- Kent Campus

## Admission Requirements

- Official transcript(s) from Baccalaureate program
- Minimum 3.000 GPA
- Goal statement
- Two letters of recommendation
- Questions in Anticipation of Licensure form
- Evidence of current 4-Year Resident Educator or 5-Year Professional State of Ohio teaching license (Intervention Specialist, Early Childhood Education or P-K validation)

## Program Requirements

### Endorsement Requirements

Code	Title	Credit Hours
<b>Endorsement Requirements</b>		
SPED 63950	CURRICULUM AND INTERVENTION IN EARLY CHILDHOOD SERVICES	3
or SPED 63958	EARLY CHILDHOOD INTERVENTION METHODS	
SPED 63952	FAMILY AND PROFESSIONAL COLLABORATION IN EARLY CHILDHOOD	3
SPED 63953	PRACTICAL APPLICATIONS: BIRTH TO FIVE	3
SPED 63955	TYPICAL AND ATYPICAL DEVELOPMENT IN YOUNG CHILDREN	3
SPED 63956	FOUNDATIONS IN EARLY CHILDHOOD SERVICES	3
SPED 63957	ASSESSMENT AND EVALUATION OF EARLY CHILDHOOD SERVICES	3
SPED 64892	ADVANCED PRACTICUM	3

## Progression Requirements

- Must maintain a minimum 3.000 overall GPA

## Graduation Requirements

- Minimum 3.000 overall GPA

## Licensure Information

Prior to program completion, the candidate must demonstrate proficiencies in the following areas (including but not limited to): Data literacy and analysis, use of research and assessment data, leadership and collaboration, utilizing and supporting appropriate technology for the discipline, and application of professional dispositions, laws and policies, codes of ethics and professional standards appropriate to their field of specialization.

Candidates seeking Ohio teaching licensure are required to pass specific requirements in order to apply for licensure from the Ohio Department of Education (ODE). Students should consult the Special Education Department for specific program requirements and refer to the Ohio Department of Education - Educator Preparation website for more information on assessments specific to licensure type.

## Special Education Transition-to-Work Endorsement Preparation - Non-Degree

### College of Education Health and Human Services

School of Lifespan Development and Educational Services  
405 White Hall  
Kent Campus  
330-672-2294  
www.kent.edu/ehhs/ldes

## Description

The Special Education Transition-to-Work Endorsement Preparation non-degree program is designed for special educators who wish to prepare 4th through 12th grade students with disabilities for adult life. In addition to employment, the Transition-to-Work program also addresses issues related to residential, recreational, continuing education and other outcomes experienced by adults with and without disabilities.

The Kent State Transition-to-Work endorsement leads to a single qualification applicable to all former transition roles (e.g., work study, VOSE, Option IV). For more information regarding the standards governing the endorsement, please visit Ohio's Department of Education. Coursework from a master's degree in special education may apply towards endorsement requirements; however, student must apply to and be accepted into both the endorsement program and the master's programs.

### Fully Offered At:

- Kent Campus

## Admission Requirements

- Official transcript(s) from bachelor's (or most recent degree)
- Minimum overall 3.000 GPA of most recent degree completed
- Evidence of a current special education teaching license
- Interview with Transition-to-Work program coordinator
- Experience teaching students with moderate-to-intensive disabilities, or the completion of 15 credits of moderate-to-intensive coursework

## Program Requirements

### Licensure Requirements

Code	Title	Credit Hours
<b>Licensure Requirements</b>		
CTTE 56019	COORDINATION OF CAREER TECHNICAL COOPERATIVE EDUCATION PROGRAMS	3
CTTE 66001	PRINCIPLES AND PRACTICES IN CAREER TECHNICAL EDUCATION	3
RHAB 67732	OCCUPATIONAL ASPECTS OF DISABILITY	3
SPED 53070	PLANNING AND PROGRAMMING FOR TRANSITIONS	3
SPED 64200	CURRICULUM METHODS FOR TRANSITION PLANNING AND COLLABORATION	3
Minimum Total Credit Hours:		15

### Licensure Information

Prior to program completion, the candidate must demonstrate proficiencies in the following areas (including but not limited to): Data literacy and analysis, use of research and assessment data, leadership and collaboration, utilizing and supporting appropriate technology for the discipline, and application of professional dispositions, laws and policies, codes of ethics and professional standards appropriate to their field of specialization.

## School of Teaching, Learning and Curriculum Studies

### College of Education Health and Human Services

School of Teaching, Learning and Curriculum Studies

404 White Hall

Kent Campus

330-672-2580

[www.kent.edu/ehhs/tlcs](http://www.kent.edu/ehhs/tlcs)

## Undergraduate Programs

- Early Childhood Education - B.S.E.
- Earth Science - B.S.E.
- Integrated Language Arts - B.S.E.
- Integrated Mathematics - B.S.E.
- Integrated Science - B.S.E.
- Integrated Social Studies - B.S.E.
- Life Science - B.S.E.
- Life Science/Chemistry - B.S.E.
- Middle Childhood Education - B.S.E.

- Physical Education and Sport Performance - B.S.
- Physical Science - B.S.E.

## Minors

- Athletic Coaching
- Sport, Exercise and Performance Psychology

## Graduate Programs

- Career - Technical Teacher Education - M.Ed.
- Curriculum and Instruction - Ed.S.
- Curriculum and Instruction - M.Ed.
- Curriculum and Instruction - Ph.D.
- Early Childhood Education - M.A.T.
- Early Childhood Education - M.Ed.
- Educational Technology - M.Ed.
- Reading Specialization - M.Ed.
- Secondary Education - M.A.T.

## Certificates

### Undergraduate Certificates

- Career-Technical Teacher Education

### Graduate Certificates

- Career-Technical Teacher Education
- Online and Blended Learning

## Licensure/Endorsement Programs - Non-Degree

### Undergraduate

- Early Childhood Generalist (Grades 4-5) Endorsement Preparation
- Middle Childhood Generalist Science (4-6) Endorsement Preparation
- Middle Childhood Generalist Social Studies (4-6) Endorsement Preparation

### Graduate

- Adapted Physical Education Endorsement Preparation
- Career-Based Intervention Endorsement Preparation
- Computer Science Endorsement Preparation
- Computer Technology Endorsement Preparation
- Early Childhood Education (PK-3) Additional Licensure Preparation
- Early Childhood Education Pre-Kindergarten (3-5 years) Endorsement Preparation
- Early Childhood Generalist (Grades 4-5) Endorsement Preparation
- Gifted Education Endorsement Preparation
- Integrated Language Arts Additional Licensure Preparation
- Integrated Mathematics Additional Licensure Preparation
- Integrated Science Additional Licensure Preparation
- Integrated Social Studies Additional Licensure Preparation
- Middle Childhood Education (4-9) Language Arts/Reading and Mathematics Initial Licensure Preparation
- Middle Childhood Education (4-9) Language Arts/Reading and Science Initial Licensure Preparation



- Middle Childhood Education (4-9) Mathematics and Science Initial Licensure Preparation
- Middle Childhood Education (4-9) Mathematics and Social Studies Initial Licensure Preparation
- Middle Childhood Education (4-9) Social Studies and Language Arts/ Reading Initial Licensure Preparation
- Middle Childhood Education (4-9) Social Studies and Science Initial Licensure Preparation
- Middle Childhood Education–Language Arts and Reading (4-9) Additional Licensure Preparation
- Middle Childhood Education–Mathematics (4-9) Additional Licensure Preparation
- Middle Childhood Education–Science (4-9) Additional Licensure Preparation
- Middle Childhood Education–Social Studies (4-9) Additional Licensure Preparation
- Kenyon, Elizabeth (2015), Assistant Professor, Ph.D., Michigan State University, 2015
- Kidder, Melanie K. (1995), Associate Lecturer, M.A., California State University-San Marcos, 2004
- Kim, Insook (2012), Associate Professor, Ph.D., The Ohio State University, 2011
- Knapp, Kathryn A. (2007), Assistant Professor, Ph.D., Kent State University, 2013
- Kosko, Karl W. (2012), Associate Professor, Ph.D., Virginia Polytechnic Institute and State University, 2010
- Kroeger, Janice (2002), Associate Professor, Ph.D., University of Wisconsin, Madison, 2003
- Kuo, Chia-Ling (2005), Associate Professor, Ph.D., Ohio University, 2005
- Lampe, Jennifer K.
- Lash, Martha J. (2003), Associate Professor, M.S., Indiana University, Bloomington, 2004
- Levicky, Michael T. (2008), Lecturer, M.Ed., Kent State University, 2010
- Miller-Marsh, Monica A. (2012), Associate Professor, Ph.D., University of Wisconsin, Madison, 1997
- Mitchell, Stephen A. (1992), Associate Professor & Associate Dean, Ph.D., Syracuse University, 1992
- Monobe, Gumiko (2010), Associate Professor
- Morgan, Denise N. (2004), Professor
- Mulvey, Bridget K. (2012), Associate Professor, Ph.D., University of Virginia, Main Campus, 2012
- Mupinga, Davison M. (2008), Associate Professor, Ph.D., Louisiana State University-Baton Rouge, 1999
- Myers, Casey Y. (2009), Assistant Professor, Ph.D., Kent State University, 2015
- Navy, Shannon L. (2017), Assistant Professor, Ph.D., University of Georgia, 2014
- Novak, Elena (2015), Associate Professor, Ph.D., Florida State University, 2012
- Nurnberger-Haag, Julie (2015), Assistant Professor, Ph.D., Michigan State University, 2015
- O'Connor, Patrick J. (1988), Associate Professor, Ed.D., Virginia Polytechnic Institute and State University, 1982
- Pech, Sandra, Associate Professor
- Pytash, Kristine E. (2006), Associate Professor, Ph.D., Kent State University, 2009
- Rasinski, Timothy V. (1988), Professor, Ph.D., Iowa State University, 2005
- Raven, Sara P. (2013), Assistant Professor, Ph.D., University of Georgia, 2013
- Sandmann, Alexa L. (2004), Professor & School Director, Ed.D., University of Cincinnati, 1990
- Stoll, Julia A. (2000), Associate Professor, Ph.D., Kent State University, 2015
- Testa, Elizabeth A. (2013), Associate Professor, Ph.D., University of Akron, 2014
- Turner, Steven L. (2005), Associate Professor, Ph.D., University of Virginia, Main Campus, 2005
- Walton-Fisette, Jennifer L. (2008), Associate Professor & Director, Ed.D., University of Massachusetts-Amherst, 2008
- Wang, Jiahui (2018), Assistant Professor

## School of Teaching, Learning and Curriculum Studies Faculty

- Bedrosian, Wendlyn K. (1998), Assistant Professor, Ph.D., Kent State University, 2004
- Bintz, William P. (2004), Professor
- Borgerding, Lisa (2007), Associate Professor, Ph.D., Indiana University, Bloomington, 2007
- Caniglia, Joanne C. (2008), Associate Professor, Ph.D., Kent State University, 1994
- Courtney, Scott A. (2010), Associate Professor, Ph.D., Arizona State University, 2010
- Crowe, Alicia R. (2001), Professor & Associate Dean, Ph.D., Vanderbilt University, 2001
- Dever, Robin M. (2007), Associate Professor
- Dowdy, Joanne K. (2001), Professor, Ph.D., University of North Carolina, Chapel Hill, 1997
- Eckert, Kevin (2015), Lecturer, M.Ed., Kent State University, 2017
- Ellison, Douglas (2017), Assistant Professor, Ph.D., University of Illinois, Urbana, 2016
- Froehlich, Larry G. (2002), Associate Professor, Ed.D., West Virginia University, 1984
- Gandolfi, Enrico (2015), Assistant Professor
- Gershon, Walter S. (2006), Associate Professor, Ph.D., University of California, Riverside, 2007
- Gorecki, Jennifer J. (2011), Assistant Professor, O.G.D., University of South Carolina, 2000
- Gruhler, Danielle M. (1999), Associate Professor, Ph.D., Kent State University, 2004
- Hawley, Todd (2008), Associate Professor, Ph.D., University of Georgia, 2008
- Heron, Michele L. (2004), Assistant Professor, Ph.D., Kent State University, 2010
- Hollstein, Matthew S. (2015), Assistant Professor, Ph.D., Ohio University, 2015
- Hostler, Rochelle (2008), Lecturer, Pacific Oaks College, 2004
- Hutchins, Pamela K. (1993), Associate Lecturer, M.Ed., Kent State University, 1992
- Irving, Sonya E. (2013), Assistant Professor, Ph.D., University of Illinois, Urbana, Champaign, 2014

- Wilfong, Lori G. (2002), Associate Professor, Ph.D., Kent State University, 2006
- Zimmerman, Belinda S. (1992), Associate Professor, Ph.D., Kent State University, 2003

## Adolescent/Adult Education (ADED)

### ADED 20000 TOPICS IN SOCIAL JUSTICE IN TEACHING AND LEARNING 3 Credit Hours

This course examines social justice issues that are central to teaching and learning across all educational contexts. In this course students will consider topics such as race, poverty, social class, LGBTQ youth and colleagues, socially responsive teaching, and at risk youth as they intersect with K-12 educational settings. This course will have a field experience to document some of the knowledge, skills, and dispositions for social justice in educational contexts learned throughout this course.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

### ADED 20020 EXPLORING SECONDARY SCIENCE TEACHING 1 Credit Hour

This course is designed to allow students to learn and practice science teaching skills, develop real-world teaching experience in secondary schools, learn about research-based science teaching methods, and explore formal and informal science teaching careers. The course includes an associated field experience where students get to teach science lessons to local secondary students.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 1 lecture

**Grade Mode:** Standard Letter

### ADED 22275 ISSUES AND TRENDS IN SOCIAL STUDIES EDUCATION 3 Credit Hours

A course that introduces you to the field of social studies education. In this course you will explore the history and current issues and trends in the field of social studies education.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

### ADED 32142 PRINCIPLES OF TEACHING ADOLESCENTS (WIC) 3 Credit Hours

Orientation to adolescence and the teaching-learning process. This course includes 30 field-clinical hours in an urban setting. Students are required to complete Bureau of Criminal Investigation and Identification (BCII) and Federal Bureau of Investigation (FBI) background checks and submit the results to authorized personnel at their assigned school-agency before the first day of the semester in which student teaching internship will take place.

**Prerequisite:** ADED 20000; and admission to advanced study.

**Schedule Type:** Field Experience, Lecture

**Contact Hours:** 2 lecture, 2 other

**Grade Mode:** Standard Letter

**Attributes:** Writing Intensive Course

### ADED 32268 THE SECONDARY SCHOOL MATHEMATICS CURRICULUM 3 Credit Hours

The secondary school mathematics curriculum will be examined. Student's textbooks and recommendations will be investigated. This course includes 30 field clinical hours. Students are required to complete Bureau of Criminal Investigation and Identification (BCII) and Federal Bureau of Investigation (FBI) background checks and submit the results to authorized personnel at their assigned school/agency before the first day of the semester in which student teaching/ internship will take place.

**Prerequisite:** ADED 32142 and MATH 22005.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

### ADED 32275 CURRICULUM AND PEDAGOGY IN SOCIAL STUDIES 3 Credit Hours

A beginning social studies teaching and learning course. In this course you will explore how to achieve the purposes of social studies education through curriculum, instructional and planning decisions.

**Prerequisite:** ADED 22275 and ADED 32142; and admission to advanced study.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

### ADED 32277 TEACHING SCIENCE IN SECONDARY SCHOOLS 3 Credit Hours

Goals, methodology and resources for effective teaching of science to adolescents and young adults.

**Prerequisite:** ADED 32142.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

### ADED 42196 INDIVIDUAL PROJECT IN ADOLESCENT EDUCATION 2-4 Credit Hours

(Repeatable for credit) Independent study in Adolescent Education.

**Prerequisite:** Special approval.

**Schedule Type:** Individual Investigation

**Contact Hours:** 2-4 other

**Grade Mode:** Satisfactory/Unsatisfactory

### ADED 42268 TEACHING OF MATHEMATICS IN SECONDARY SCHOOLS 3 Credit Hours

Methodology and materials for effective teaching of secondary school mathematics will be discussed and implemented in field experiences. Course includes 46 field/clinical hours. Mathematics courses through MATH 22005.

**Prerequisite:** ADED 32268.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

### ADED 42275 TEACHING SOCIAL STUDIES IN GRADES 7 - 12 3 Credit Hours

An advanced social studies education teaching and learning course. Addresses a range of topics that will help you engage your 7th–12th grade students with social studies.

**Prerequisite:** Minimum C grade in ADED 32275; and admission to advanced study.

**Corequisite:** ADED 42292.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ADED 42277 TOPICS IN SECONDARY SCHOOL SCIENCE TEACHING****3 Credit Hours**

Analysis of trends in science teaching and materials and methods for introducing topics from the history of science and from health education.

**Prerequisite:** ADED 32277; and admission to advanced study.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ADED 42292 FIELD WORK PRACTICUM (ELR) 3 Credit Hours**

A minimum 96-hour field experience in a middle or high school.

Observations, interviews, designing and teaching of lessons and debriefing. Students are required to complete Bureau of Criminal Investigation and Identification (BCII) and Federal Bureau of Investigation (FBI) background checks and submit the results to authorized personnel at their assigned school-agency before the first day of the semester in which student teaching internship will take place. Students must be on track for student teaching the following semester in order to register for this course.

**Prerequisite:** Minimum C grade in ADED 32268 or ADED 32275 or ADED 32277; or ADED 43325 and ADED 43335; and advanced study.

**Corequisite:** ADED 42268 or 42275 or 42277 or 43315.

**Schedule Type:** Practical Experience

**Contact Hours:** 9 other

**Grade Mode:** Standard Letter

**Attributes:** Experiential Learning Requirement

**ADED 42392 SECONDARY STUDENT TEACHING (ELR) 9 Credit Hours**

Provides a full time student-teaching experience. Observations, interviews, designing and teaching of lessons and debriefing. Students are required to complete Bureau of Criminal Investigation and Identification (BCII) and Federal Bureau of Investigation (FBI) background checks and submit the results to authorized personnel at their assigned school-agency before the first day of the semester in which student teaching internship will take place. Official valid certification of Child Safety Training, approved Basic Life Support and A.L.I.C.E. Training must be presented to the campus office of clinical experience or designated faculty-staff at Regional campuses as prerequisite for student teaching.

**Prerequisite:** Admission to advanced study; and Official valid certification of Child Safety Training, approved Basic Life Support and ALICE Training must be presented to the campus office of clinical experience or designated faculty/staff at Regional campuses as prerequisite for student teaching.

**Corequisite:** ADED 49525.

**Schedule Type:** Practical Experience

**Contact Hours:** 35 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**Attributes:** Experiential Learning Requirement

**ADED 43315 TEACHING LITERATURE IN THE SECONDARY SCHOOLS****3 Credit Hours**

(Slashed with ADED 53315) Explores the pedagogy of canonical literature, literary theory and approaches to teaching texts in the secondary classroom.

**Prerequisite:** ADED 43335; and advanced standing.

**Corequisite:** ADED 42292.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ADED 43325 MULTI-MODAL LITERACIES IN THE SECONDARY CLASSROOM 3 Credit Hours**

Explores the pedagogies of reading and composing with a variety of print and non-print texts. Focuses on the impact of media culture on adolescent learners. Utilizes new literacies to enhance learning in the content area.

**Prerequisite:** Advanced standing.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**ADED 43335 TEACHING LANGUAGE AND COMPOSITION 3 Credit Hours**

Explores linguistic and rhetorical perspectives on the teaching of composition in secondary schools.

**Prerequisite:** MCED 40007; and advanced standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ADED 49525 INQUIRY INTO PROFESSIONAL PRACTICE 3 Credit Hours**

Reflection on teaching for the purpose of instructional improvement. Emphases are placed on preparing implementing and assessing a curricular unit collaborative problem solving conducting an action research project and creating a portfolio.

**Prerequisite:** Admission to advanced study.

**Corequisite:** ADED 42357.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ADED 52267 IMPROVING MATHEMATICS INSTRUCTION FOR ADOLESCENT AND ADULT EDUCATION 3 Credit Hours**

Methodology and materials for effective teaching of secondary school mathematics.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ADED 52277 TEACHING SCIENCE IN THE SECONDARY SCHOOL 3 Credit Hours**

Analysis of teaching materials, demonstrations and participation in science classes appropriate for graduate students seeking certification to teach science in the secondary school.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ADED 53315 TEACHING LITERATURE IN THE SECONDARY SCHOOLS 3 Credit Hours**

(Slashed with ADED 43315) Explores the pedagogy of canonical literature, literary theory and approaches to teaching texts in the secondary classroom.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ADED 62145 PRINCIPLES OF SECONDARY TEACHING 3 Credit Hours**

Principles of teaching adolescents including curriculum, planning instruction, assessment, fundamentals of evaluation, and reflective practice. All course content focuses on preparing teachers for secondary school teaching.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ADED 62191 SEMINAR IN SECONDARY EDUCATION 1-3 Credit Hours**

(Repeatable for credit) (Cross-listed with ADED 72191) Study and experience of various theoretical and methodological and practical approaches to special problems.

**Prerequisite:** Graduate standing.

**Schedule Type:** Seminar

**Contact Hours:** 1-3 other

**Grade Mode:** Standard Letter

**ADED 62192 ADVANCED PRACTICUM AND INTERNSHIP IN SECONDARY EDUCATION 1-10 Credit Hours**

(Repeatable for credit) Provides a student-teaching or internship experience. Observations, interviews, designing and teaching of lessons and debriefing. Students are required to complete Bureau of Criminal Investigation and identification (BCII) and Federal Bureau of Investigation (FBI) background checks and submit the results to authorized personnel at their assigned school-agency before the first day of the semester in which student teaching internship will take place. Official valid certification of Child Safety Training, approved Basic Life Support and A.L.I.C.E. Training must be presented to the campus office of clinical experience or designated faculty staff at Regional campuses as prerequisite for student teaching.

**Prerequisite:** Official valid certification of Child Safety Training, approved Basic Life Support and ALICE Training must be presented to the campus office of clinical experience or designated faculty/staff at Regional campuses as prerequisite for student teaching; and Graduate standing.

**Schedule Type:** Practical Experience

**Contact Hours:** 3-32 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**ADED 62198 RESEARCH IN SECONDARY EDUCATION 2-15 Credit Hours**

(Repeatable for credit) Students pursue an individualized research project under direction of instructor.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Research

**Contact Hours:** 2-15 other

**Grade Mode:** Standard Letter

**ADED 67147 TEACHING ADOLESCENTS IN THE SECONDARY SCHOOL CULTURE 3 Credit Hours**

Providing for motivation, discipline and instruction of adolescents within the culture of the secondary school.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ADED 67232 SECONDARY SCHOOL SOCIAL STUDIES 3 Credit Hours**

(Cross-listed with ADED 77232) General focus is on examining current instructional and curricular trends in teaching social studies. Emphasis is placed on strategies of teaching developing student's critical thinking skills role of the computer use of primary sources teaching controversial issues and stimulating active citizenship.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ADED 72191 SEMINAR IN SECONDARY EDUCATION 1-3 Credit Hours**

(Repeatable for credit) (Cross-listed with ADED 62191) Study and experience of various theoretical and methodological and practical approaches to special problems.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Seminar

**Contact Hours:** 1-3 other

**Grade Mode:** Standard Letter

## Curriculum and Instruction (CI)

**CI 40093 VARIABLE TITLE WORKSHOP IN CURRICULUM AND INSTRUCTION 1-5 Credit Hours**

(Slashed with CI 50093 and CI 70093)(Repeatable for credit) Variable topic workshop designed to respond to curriculum trends and issues and specialized needs.

**Prerequisite:** Special approval.

**Schedule Type:** Workshop

**Contact Hours:** 1-5 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**CI 47095 SPECIAL TOPICS IN CURRICULUM AND INSTRUCTION 1-5 Credit Hours**

(Repeatable for credit) Topic varies for each offering.

**Prerequisite:** Special approval.

**Schedule Type:** Lecture

**Contact Hours:** 1-5 lecture

**Grade Mode:** Standard Letter-IP

**CI 47096 INDIVIDUAL INVESTIGATION IN CURRICULUM AND INSTRUCTION 1-5 Credit Hours**

(Repeatable for credit) Student-initiated experience to pursue an area of interest not covered by a regular course offering, with the guidance of a Kent State faculty member.

**Prerequisite:** Special approval.

**Schedule Type:** Individual Investigation

**Contact Hours:** 1-5 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**CI 47195 SPECIAL TOPICS IN CURRICULUM AND INSTRUCTION 1-5 Credit Hours**

(Repeatable for credit) Student teaching topics vary for each offering.

**Prerequisite:** Special approval.

**Schedule Type:** Practical Experience

**Contact Hours:** 1-5 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP



**CI 47330 READING AND WRITING IN ADOLESCENCE/ADULTHOOD 3 Credit Hours**

(Slashed with CI 57330) Understanding of literacy learning in adolescence and adulthood (ages 12-21) with an emphasis on strategies for text learning, literacy in electronic environments and teaching students who struggle as readers and writers.

**Prerequisite:** Admission to advanced study.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CI 47501 TEACHING MATHEMATICS IN EARLY AND MIDDLE GRADES 3 Credit Hours**

(Slashed with CI 57501) Addresses pedagogical content knowledge for the teaching and learning of mathematics in grades K-9, based on the national content and process standards.

**Prerequisite:** MATH 14001 or MATH 14002 with a minimum C grade; and admission to advanced study.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CI 47502 SCIENCE TEACHING IN EARLY AND MIDDLE GRADES 3 Credit Hours**

(Slashed with CI 57502) Addresses pedagogical content knowledge for the teaching and learning of science in grades K-9. Students examine how to best align science practice to state and national standards.

**Prerequisite:** Admission to advanced study.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CI 47503 TEACHING SOCIAL STUDIES IN EARLY AND MIDDLE GRADES 3 Credit Hours**

(Slashed with CI 57503) Addresses pedagogical content knowledge for the teaching and learning of social studies in grades K-9, based on the national content and process standards.

**Prerequisite:** Admission to advanced study.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CI 47504 TEACHING READING AND WRITING IN MIDDLE GRADES 3 Credit Hours**

(Slashed with CI 57504) Addresses pedagogical content knowledge for the teaching and learning of reading and writing in grades 4-9, based on the national content and process standards.

**Prerequisite:** Admission to advanced study.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CI 47505 INTEGRATED SOCIAL STUDIES AND SCIENCE 3 Credit Hours**

(Slashed with CI 57505) Addresses principles of teaching and learning as applied to teaching social studies and science in elementary and middle grades. Students examine how to best align social studies and science practice with state and national standards.

**Prerequisite:** Admission to advanced study.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CI 50093 VARIABLE TITLE WORKSHOP IN CURRICULUM AND INSTRUCTION 1-5 Credit Hours**

(Slashed with CI 40093 and CI 70093)(Repeatable for credit) Variable topic workshop designed to respond to curriculum trends and issues and specialized needs.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Workshop

**Contact Hours:** 1-5 other

**Grade Mode:** Satisfactory/Unsatisfactory

**CI 50095 SPECIAL TOPICS: SEMINAR/WORKSHOP IN CURRICULUM AND INSTRUCTION 1 Credit Hour**

(Repeatable for credit) Topics varies for each offering. Seminar workshop for International Baccalaureate program.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 1 lecture

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**CI 55015 PSYCHOLOGY OF COACHING 3 Credit Hours**

(Slashed with PESP 45015) Factors affecting athletic performance emphasizing skill, motivation, personality and practice conditions.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CI 55020 CONTEMPORARY ATHLETIC COACHING 3 Credit Hours**

(Slashed with PESP 45020) A focus on the philosophy, skills, strategies and tactics of coaching within contemporary society.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CI 55051 ELEMENTARY SCHOOL PHYSICAL EDUCATION METHODS 3 Credit Hours**

(Slashed with PESP 45051) Approaches to teaching in elementary school physical education. Focus on establishing an environment for learning, planning standards based lessons, instructional effectiveness, and assessment of student learning. Students are required to complete Bureau of Criminal Investigation and Identification (BCII) and Federal Bureau of Investigation (FBI) background checks and submit the results to authorized personnel at their assigned school-agency before the first day of field experience.

**Prerequisite:** Physical Education Teacher Education concentration in the Curriculum and Instruction major; and graduate standing; and special approval.

**Corequisite:** CI 55053.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 2 lecture, 2 lab

**Grade Mode:** Standard Letter



**CI 55053 ELEMENTARY SCHOOL PHYSICAL EDUCATION CONTENT  
3 Credit Hours**

(Slashed with PESP 45053) Physical education content for the elementary school child with emphasis on developmentally appropriate learning in three domains. Students are required to complete Bureau of Criminal Investigation and Identification (BCII) and Federal Bureau of Investigation (FBI) background checks and submit the results to authorized personnel at their assigned school-agency before the first day of field experience.

**Prerequisite:** Graduate standing; and special approval.

**Corequisite:** CI 55051.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 2 lecture, 2 lab

**Grade Mode:** Standard Letter

**CI 55058 SECONDARY SCHOOL PHYSICAL EDUCATION METHODS 3  
Credit Hours**

(Slashed with PESP 45058) Approaches to teaching in secondary physical education. Focus on management of the learning environment, planning for learning outcomes in three domains, instructional effectiveness, and sequential curriculum development. Students are required to complete Bureau of Criminal Investigation and Identification (BCII) and Federal Bureau of Investigation (FBI) background checks and submit the results to authorized personnel at their assigned school-agency before the first day of field experience.

**Prerequisite:** Graduate standing; and special approval.

**Corequisite:** CI 55059.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 2 lecture, 2 lab

**Grade Mode:** Standard Letter

**CI 55059 SECONDARY SCHOOL PHYSICAL EDUCATION CONTENT 3  
Credit Hours**

(Slashed with PESP 45059) Introduction and development of content, standards-based curriculum models, management and organizational skills related to sports and activities utilized in secondary school physical education. Students are required to complete Bureau of Criminal Investigation and Identification (BCII) and Federal Bureau of Investigation (FBI) background checks and submit the results to authorized personnel at their assigned school-agency before the first day of field experience.

**Prerequisite:** Graduate standing; and special approval.

**Corequisite:** CI 55058.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 2 lecture, 2 lab

**Grade Mode:** Standard Letter

**CI 57330 READING AND WRITING IN ADOLESCENCE/ADULTHOOD 3  
Credit Hours**

(Slashed with CI 47330) Understanding of literacy learning in adolescence and adulthood (ages 12-21) with an emphasis on strategies for text learning, literacy in electronic environments, and teaching students who struggle as readers and writers.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CI 57501 TEACHING MATHEMATICS IN EARLY AND MIDDLE GRADES  
3 Credit Hours**

(Slashed with CI 47501) Addresses pedagogical content knowledge for the teaching and learning of mathematics in grades K-9, based on the national content and process standards.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CI 57502 SCIENCE TEACHING IN EARLY AND MIDDLE GRADES 3  
Credit Hours**

(Slashed with CI 47502) Addresses pedagogical content knowledge for the teaching and learning of science in grades K-9. Students examine how to best align science practice to state and national standards.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CI 57503 TEACHING SOCIAL STUDIES IN EARLY AND MIDDLE GRADES  
3 Credit Hours**

(Slashed with CI 47503) Addresses pedagogical content knowledge for the teaching and learning of social studies in grades K-9, based on the national content and process standards.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CI 57504 TEACHING READING AND WRITING IN MIDDLE GRADES 3  
Credit Hours**

(Slashed with CI 47504) Addresses pedagogical content knowledge for the teaching and learning of reading and writing in grades 4-9, based on the national content and process standards.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CI 57505 INTEGRATED SOCIAL STUDIES AND SCIENCE 3 Credit  
Hours**

(Slashed with CI 47505) Addresses principles of teaching and learning as applied to teaching social studies and science in elementary and middle grades. Students examine how to best align social studies and science practice with state and national standards.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CI 60199 THESIS I 2-6 Credit Hours**

Thesis students must register for a total of 6 hours, 2 to 6 hours in a single semester distributed over several semesters if desired.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Masters Thesis

**Contact Hours:** 2-6 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**CI 60299 THESIS II 2 Credit Hours**

Thesis students must continue registration each semester until all degree requirements are met.

**Prerequisite:** CI 60199; and Graduate standing.

**Schedule Type:** Masters Thesis

**Contact Hours:** 2 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**CI 61124 EDUCATING THE GOOD CITIZEN 3 Credit Hours**

(Slashed with CI 71124) Course explores the competing conceptions of citizenship education through an examination and critique of the diverse perspectives on the purposes and possibilities of citizenship education—including the contributions and influence of multicultural, international and theoretical perspectives on the meaning of educating citizens in a democracy—situating work, thinking and practice in the literature. As part of the process of reading, discussing and deliberating together, students articulate a rationale for citizenship education and develop ways to incorporate their vision for citizenship education into their work as teacher educators, practicing social studies teachers and/or community members.

**Prerequisite:** Graduate standing.

**Schedule Type:** Seminar

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**CI 61125 ISSUES AND TRENDS IN SOCIAL STUDIES EDUCATION 3 Credit Hours**

(Slashed with CI 71125) Provides an overview of historical trends and contemporary issues in social studies education.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CI 61126 RESEARCH IN SOCIAL STUDIES TEACHING AND LEARNING 3 Credit Hours**

(Slashed with CI 71126) Students examine, discuss and study research in the teaching and learning of social studies, as well as develop their own study of social studies teaching and learning.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CI 61127 TECHNOLOGY AND SOCIAL STUDIES 3 Credit Hours**

(Slashed with CI 71127) Course provides experiences with and study of various uses of technology in social studies teaching and learning. Students examine implications and effects of technology on student learning, teaching and society as a whole.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CI 61130 MULTICULTURAL EDUCATION: STRATEGIES 3 Credit Hours**

(Slashed with CI 71130) Course provides the strategies for teaching children to function effectively in a pluralistic society.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CI 61133 ISSUES AND TRENDS IN ELEMENTARY SCIENCE 3 Credit Hours**

(Slashed with CI 71133) New discoveries in science, including issues in society with direct science content. Emphasis is on practical and simple classroom applications.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CI 61134 RESEARCH TRENDS IN SCIENCE EDUCATION 3 Credit Hours**

(Slashed with CI 71134) Course in issues relating to research methods pertinent to science education.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CI 61140 CULTURE AND MULTICULTURALISM IN SCIENCE EDUCATION 3 Credit Hours**

(Slashed with CI 71140) Provides a general introduction to the impacts of multiculturalism and the social studies of science on science education. Implications for science educational curriculum theory, classroom practice and research are explored. Teaching topics examined include race and gender in science education, culture of science and science in a global context.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CI 61141 NATURE OF SCIENCE IN SCIENCE EDUCATION 3 Credit Hours**

(Slashed with CI 71141) Course in issues relating to the nature of science as it impacts science education.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CI 63193 VARIABLE TITLE WORKSHOP IN EXERCISE, LEISURE AND SPORT 1-3 Credit Hours**

(Repeatable for credit) Workshop in exercise, leisure and sport. Topics vary. Maximum 4 credit hours applied to the degree.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Workshop

**Contact Hours:** 1-3 other

**Grade Mode:** Satisfactory/Unsatisfactory

**CI 65025 CONTEMPORARY ISSUES IN SPORT PEDAGOGY - AN INTERNATIONAL PERSPECTIVE 3 Credit Hours**

(Slashed with CI 85025) An international perspective on the investigation and study of current problems, issues and trends in sport pedagogy.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CI 65037 ADAPTED PHYSICAL EDUCATION 3 Credit Hours**

(Slashed with CI 85037) Course prepares physical education teachers to provide safe, appropriate and individualized accommodations to students with disabilities. All information presented is structured around research-based and cross-culturally appropriate practices in adapted physical education that have been implemented in physical education programs globally.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CI 65044 PEDAGOGICAL ANALYSIS OF PHYSICAL EDUCATION AND SPORT 3 Credit Hours**

(Slashed with CI 85044) An analysis of contemporary pedagogical models, practices and theories relevant to the multidimensional environments of physical education and sport.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CI 65055 CURRICULUM DEVELOPMENT IN SPORT PEDAGOGY 3 Credit Hours**

(Slashed with CI 85055) The analysis, development and design of curricular theory and practice in physical education and sport. An examination of current and future issues in curriculum implementation.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CI 65392 ADVANCED PRACTICUM IN PHYSICAL EDUCATION 10 Credit Hours**

(Repeatable for credit) A 16-week practicum in K-12 physical education, combining full-time student teaching and student teaching seminar. Students spend eight weeks student teaching at the preschool to fifth-grade level and then eight weeks at the sixth- to 12th-grade level. Students are required to complete Bureau of Criminal Investigation and Identification (BCII) and Federal Bureau of Investigation (FBI) background checks and submit the results to authorized personnel at their assigned school/agency before the first day of the semester in which student teaching/ internship will take place. Official valid certification of Child Safety Training, approved Basic Life Support and ALICE training must be presented to the campus office of clinical experience or designated faculty/staff at regional campuses as prerequisite for student teaching.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Practical Experience, Seminar

**Contact Hours:** 3 lecture, 32 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**CI 65592 PRACTICUM IN ADAPTED PHYSICAL EDUCATION 3 Credit Hours**

(Repeatable for credit) Supervised and supervisory experiences in motor development for all ages and abilities, including conceptual bases for assessment and individualized task analysis.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Practical Experience

**Contact Hours:** 9 other

**Grade Mode:** Standard Letter-IP

**CI 65692 INTERNSHIP IN ATHLETIC COACHING 2-4 Credit Hours**

(Repeatable for a maximum of 4 credits) Supervised experience in organized sport focused upon the duties of a coach; can involve one or more level (youth, school, college, professional) and sport. A focus on the philosophy, skills, strategies and tactics of coaching within contemporary society. 45 contact hours per credit. Students are required to complete Bureau of Criminal Investigation and Identification (BCII) and Federal Bureau of Investigation (FBI) background checks and submit the results to authorized personnel at their assigned school/agency before the first day of the semester in which student teaching-internship will take place.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Practical Experience

**Contact Hours:** 6-12 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**CI 67001 FUNDAMENTALS OF CURRICULUM 3 Credit Hours**

(Slashed with CI 77001) Orientation to the curriculum field. Theoretical examination of foundations, elements, design and development of school, college and non-school curricula.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CI 67002 CURRICULUM LEADERSHIP 3 Credit Hours**

(Slashed with CI 77002) Course explores the theories and practices of curriculum leadership with reference to the current politics of education and the democratic ideals of information-age, pluralistic societies. Mandated accountability reform is critically compared to invited professional renewal.

**Prerequisite:** CI 67001; and Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CI 67003 TEACHER EDUCATION 3 Credit Hours**

(Slashed with CI 77003) Course provides a broad overview of teacher education, including curriculum, organization, governance and policy.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CI 67004 PROFESSIONAL DEVELOPMENT IN TEACHING 3 Credit Hours**

(Slashed with CI 77004) Course provides a broad overview and conceptual framework for professional development; its historical, cultural, psychological and social contexts.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CI 67005 INTERCULTURAL DIMENSIONS OF TEACHING AND LEARNING 3 Credit Hours**

(Slashed with CI 77005) Course addresses teaching and learning in the intercultural K-16 context. Increasing intercultural interaction in schools and communities across the nation and around the world are prompting educational changes in terms of what is being taught and how it is being taught. Educators at all levels are increasingly being called upon to enhance their own intercultural competence and to consider how best to translate this to students in their charge.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CI 67007 CRITICAL REFLECTION IN CURRICULUM AND INSTRUCTION 2 Credit Hours**

Capstone course for a master's degree in curriculum and instruction. Students critique their content area studies with reference to the standard of curriculum-based pedagogy. Three concepts inform this critique: continuing professional development, multicultural education, curriculum leadership for reform and renewal.

**Prerequisite:** CI 67001; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**CI 67010 CURRICULUM EVALUATION 3 Credit Hours**

(Slashed with CI 77010) Students learn to plan for and use a variety of techniques to gather information in systematic ways, across different phases of curriculum planning, development, implementation and evaluation to enhance decision-making processes. Students develop evaluation questions around a curriculum or program of their choice and then design a detailed evaluation plan.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CI 67091 SEMINAR IN CURRICULUM AND INSTRUCTION 1-4 Credit Hours**

(Slashed with CI 87091)(Repeatable for credit) A wide range of topics for advanced graduate inquiry. Normally, course provides a balance of theoretical study and creative application.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Seminar

**Contact Hours:** 1-4 other

**Grade Mode:** Standard Letter-IP

**CI 67092 ADVANCED PRACTICUM AND INTERNSHIP IN CURRICULUM AND INSTRUCTION 1-3 Credit Hours**

(Repeatable for credit) Supervised practicum in curriculum design, development, implementation and-or leadership. Planned with and directed by a graduate faculty member. Students are required to complete Bureau of Criminal Investigation and Identification (BCII) and Federal Bureau of Investigation (FBI) background checks and submit the results to authorized personnel at their assigned school-agency before the first day of the semester in which student teaching internship will take place.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Practical Experience

**Contact Hours:** 3-9 other

**Grade Mode:** Satisfactory/Unsatisfactory

**CI 67095 SPECIAL TOPICS IN CURRICULUM AND INSTRUCTION 1-5 Credit Hours**

(Slashed with CI 77095)(Repeatable for credit) Specialized offerings in response to emerging or selected program needs in curriculum design, development and implementation.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 1-5 lecture

**Grade Mode:** Standard Letter

**CI 67096 INDIVIDUAL INVESTIGATION IN CURRICULUM AND INSTRUCTION 1-5 Credit Hours**

(Repeatable for credit) Directed independent reading and/or research of special interest or need in student's program. Planned with and directed by a graduate faculty member.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Individual Investigation

**Contact Hours:** 1-5 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**CI 67098 RESEARCH IN CURRICULUM AND INSTRUCTION 1-15 Credit Hours**

(Repeatable for credit) Students pursue an individualized research project on a specialized topic with approval and under direction of instructor.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Research

**Contact Hours:** 1-15 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**CI 67105 IMPROVING CLASSROOM INSTRUCTION 3 Credit Hours**

(Slashed with CI 77105) Emphasizes motivation, varied materials and methods, individual needs and sources of teacher help. Class members define goals and means.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CI 67107 CURRICULUM AND ORGANIZATION IN THE MIDDLE GRADES 3 Credit Hours**

(Slashed with CI 77107) Course enhances students' knowledge, skills and dispositions about curriculum history and organization of middle schools (grades 4-9) that is developmentally responsive to early adolescents, and promotes student achievement and equity. In addition, students are able to extend their knowledge, skills, techniques and professional dispositions as related to middle school students' experiences, as well as to differentiate curriculum and assessment for diverse learners.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CI 67108 TEACHING AND LEARNING IN THE MIDDLE GRADES 3 Credit Hours**

(Slashed with CI 77108) Course emphasizes theories of learning and teaching and their application to teaching in middle childhood classrooms with a diversity of learners. Major class topics include lesson planning, teaching strategies, assessment, classroom management and effective classroom instructions. In a concurrent clinical field experience, teacher candidates apply teaching methods in intermediate-middle school classrooms.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter



**CI 67224 TEACHING MATHEMATICS USING COMPUTERS AND CALCULATORS 3 Credit Hours**

(Slashed with CI 77224) Students develop knowledge of research and theories regarding teaching and learning mathematics via computing devices. Students develop proficiency in the use of computing devices and software that would be used in the teaching and learning of mathematics.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CI 67225 RESEARCH IN MATHEMATICS EDUCATION 3 Credit Hours**

(Slashed with CI 77225) Current research theory, methodology and results in mathematics education are investigated. Implications for instructional practice and curriculum design are examined.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CI 67226 IMPROVING MATHEMATICS INSTRUCTION IN MIDDLE CHILDHOOD 3 Credit Hours**

(Slashed with CI 77226) Instructional psychology and materials, including technology, for the effective teaching of mathematics in grades 3-8, with a theoretical emphasis on cognitive development.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CI 67227 ASSESSMENT IN MATHEMATICS EDUCATION 2 Credit Hours**

(Slashed with CI 77227) Investigation of standards and practices in mathematical assessments as recommended by current research and the National Council of Teachers of Mathematics.

**Prerequisite:** Two courses from the following: ADED 52267, CI 67224, CI 67226 and/or ECED 50147; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**CI 67228 INTERVENTION IN MATHEMATICS INSTRUCTION 2 Credit Hours**

(Slashed with CI 77228) Investigation of alternative methods of teaching mathematics to diverse learners who experience difficulties in learning mathematics.

**Prerequisite:** Two courses from the following: ADED 52267, CI 67224, CI 67226 and/or ECED 50147; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**CI 67240 INTRODUCTION TO ENVIRONMENTAL EDUCATION 3 Credit Hours**

(Slashed with CI 77240) Survey course emphasizes current debates in environmental issues, exploring the interconnectedness of ecology, understanding the impact of culture and education on notions of environmental concerns, and how these ideas can be investigated within classroom contexts. The course is designed for teachers, science educators and other concerned citizens of the earth.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CI 67292 PRACTICUM IN MATHEMATICAL ASSESSMENT 2 Credit Hours**

(Repeatable for credit) Practicum experience in designing and administering both formal and informal assessments.

**Prerequisite:** Two courses from the following: ADED 52267, CI 67224, CI 67226 and/or ECED 50147; and graduate standing.

**Schedule Type:** Practical Experience

**Contact Hours:** 6 other

**Grade Mode:** Standard Letter

**CI 67310 THEORY AND PRACTICE IN THE TEACHING OF READING 3 Credit Hours**

(Slashed with CI 77310) Nature and development of reading, approaches to instruction, relation to learning and development.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CI 67312 TEACHING WRITING AS A PROCESS 3 Credit Hours**

(Slashed with CI 77312) Course emphasizes a process approach to writing instruction in grades K-12. Examines the steps and studies of composing, evaluation and components of a school-wide program.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CI 67314 SURVEY OF YOUNG ADULT LITERATURE 3 Credit Hours**

(Slashed with CI 77314) Presents a survey of selected types of literature appropriate for students in middle school, junior high and high school. Emphasis on evaluating, selecting and teaching.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CI 67315 SURVEY OF CHILDREN'S LITERATURE 3 Credit Hours**

(Slashed with CI 77315) Wide reading in children's literature, with particular application to school curriculum and field of reading.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CI 67319 DIAGNOSIS AND REMEDIATION IN READING 3 Credit Hours**

(Slashed with CI 77319) Theory and application of diagnostic principles and remedial reading approaches with school-age children. Cultural, linguistic, cognitive and effective factors in diagnosing and remediating reading problems.

**Prerequisite:** CI 67310; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CI 67320 TEACHER AS LITERACY RESEARCHER 3 Credit Hours**

Capstone experience in master's program in literacy in which students pursue an individualized literacy research program.

**Prerequisite:** CI 67351 or EVAL 65510 or EVAL 65511; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter



**CI 67330 READING IN CONTENT AREAS 3 Credit Hours**

(Slashed with CI 77330) Information and competencies for improving students' reading and studying in the content areas. Focus on intermediate grades through post-secondary years.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CI 67339 WRITING ASSESSMENT AND RESPONSE 3 Credit Hours**

(Slashed with CI 77339) Exploration of issues in writing assessment, theoretical base for effective formative response to student writing and design, and implementation of writing assessment measures.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CI 67351 PERSPECTIVES ON LITERACY RESEARCH 3 Credit Hours**

(Slashed with CI 77351) Inquiry into basic concepts and agendas for research through a study of historical, landmark and ground-breaking studies in literacy.

**Prerequisite:** Reading Specialization major; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CI 67352 LITERACY COACHING 3 Credit Hours**

(Slashed with CI 77352) Focus on principles and strategies related to literacy coaching, within classrooms, schools and districts.

**Prerequisite:** CI 67310 and CI 67319 and CI 67330 and CI 67692 and MCED 50005; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CI 67353 MULTICULTURAL VOICES IN TEACHING CHILDREN'S AND YOUNG ADULT LITERATURE 3 Credit Hours**

(Slashed with CI 77353) Exploring diverse voices in children's and young adult literature in K-12 literacy classrooms to support culturally responsive teaching and learning and broaden student understandings of diversity.

**Prerequisite:** Reading Specialization major; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CI 67392 ADVANCED PRACTICUM AND INTERNSHIP IN READING 1-10 Credit Hours**

(Repeatable for credit) Supervised practicum requiring application of theory and practices in reading in field settings. Planned with and directed by a graduate faculty member. Students are required to complete Bureau of Criminal Investigation and Identification (BCII) and Federal Bureau of Investigation (FBI) background checks and submit the results to authorized personnel at their assigned school/agency before the first day of the semester in which student teaching/ internship will take place.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Practical Experience

**Contact Hours:** 3-30 other

**Grade Mode:** Standard Letter

**CI 67395 SPECIAL TOPICS IN READING 1-5 Credit Hours**

(Slashed with CI 77395)(Repeatable for credit) Specialized offerings in response to emerging or selected program needs in reading.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 1-5 lecture

**Grade Mode:** Standard Letter

**CI 67396 INDIVIDUAL INVESTIGATION IN READING AND LANGUAGE ARTS 1-5 Credit Hours**

(Repeatable for credit) Directed independent reading and/or research of special interest or need in student's program. Planned with and directed by a graduate faculty member.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Individual Investigation

**Contact Hours:** 1-5 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**CI 67517 NEW LITERACIES IN PRACTICE 3 Credit Hours**

(Slashed with CI 87517) Developing technologies are changing the very definition of literacy. Designed to provide an overview of current (and past) theory and practices related to the growing line of inquiry known as new literacies. Participants of the class follow their own paths of inquiry related to the question: How is the definition of literacy changing? Participants engage in discussions of theoretical positions related to this question (from perspectives as new literacies, multi-literacies and arts-based knowing to name a few) as well as encounter the basics of creating a blog or wiki and editing video. Appropriate for any educator who is interested in examining how new literacies are transforming the classrooms.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CI 67592 PRACTICUM IN MATHEMATICS EDUCATION INTERVENTION 3 Credit Hours**

(Repeatable for credit) Experience in providing leadership in designing intervention programs for schools, and designing curriculum and instruction for individual learners that experience difficulties in learning mathematics.

**Prerequisite:** Graduate standing.

**Schedule Type:** Practical Experience

**Contact Hours:** 9 other

**Grade Mode:** Standard Letter

**CI 67692 CLINICAL PRACTICUM IN CORRECTIVE READING 3 Credit Hours**

Application of previous courses includes supervised diagnostic/prescriptive reading work with school-age pupils and diagnostic/remedial reporting.

**Prerequisite:** CI 67319; and graduate standing; and special approval.

**Schedule Type:** Practical Experience

**Contact Hours:** 9 other

**Grade Mode:** Standard Letter

**CI 67791 SEMINAR IN MATHEMATICS EDUCATION 3 Credit Hours**

(Repeatable for credit) An in-depth exploration of the theoretical frameworks and methodologies used in current research in mathematics education.

**Prerequisite:** Graduate standing.

**Schedule Type:** Seminar

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**CI 70093 VARIABLE TITLE WORKSHOP IN CURRICULUM AND INSTRUCTION 1-5 Credit Hours**

(Slashed with CI 40093 and CI 50093) (Repeatable for credit) Variable topic workshop designed to respond to curriculum trends and issues and specialized needs.

**Prerequisite:** Doctoral standing; and special approval.

**Schedule Type:** Workshop

**Contact Hours:** 3 other

**Grade Mode:** Satisfactory/Unsatisfactory

**CI 71124 EDUCATING THE GOOD CITIZEN 3 Credit Hours**

(Slashed with CI 61124) Course explores the competing conceptions of citizenship education through an examination and critique of the diverse perspectives on the purposes and possibilities of citizenship education—including the contributions and influence of multicultural, international and theoretical perspectives on the meaning of educating citizens in a democracy—situating work, thinking and practice in the literature. As part of the process of reading, discussing and deliberating together, students articulate a rationale for citizenship education and develop ways to incorporate their vision for citizenship education into their work as teacher educators, practicing social studies teachers and/or community members.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Seminar

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**CI 71125 ISSUES AND TRENDS IN SOCIAL STUDIES EDUCATION 3 Credit Hours**

(Slashed with CI 61125) Provides an overview of historical trends and contemporary issues in social studies education.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CI 71126 RESEARCH IN SOCIAL STUDIES TEACHING AND LEARNING 3 Credit Hours**

(Slashed with CI 61126) Students examine, discuss and study research in the teaching and learning of social studies, as well as develop their own study of social studies teaching and learning.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CI 71127 TECHNOLOGY AND SOCIAL STUDIES 3 Credit Hours**

(Slashed with CI 61127) Course provides experiences with and study of various uses of technology in social studies teaching and learning. Students examine implications and effects of technology on student learning, teaching and society as a whole.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CI 71130 MULTICULTURAL EDUCATION: STRATEGIES 3 Credit Hours**

(Slashed with CI 61130) Course provides the strategies for teaching children to function effectively in a pluralistic society.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CI 71133 ISSUES AND TRENDS IN ELEMENTARY SCIENCE 3 Credit Hours**

(Slashed with CI 61133) New discoveries in science, including issues in society with direct science content. Emphasis is on practical and simple classroom applications.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CI 71134 RESEARCH TRENDS IN SCIENCE EDUCATION 3 Credit Hours**

(Slashed with CI 61134) Course in issues relating to research methods pertinent to science education.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CI 71140 CULTURE AND MULTICULTURALISM IN SCIENCE EDUCATION 3 Credit Hours**

(Slashed with CI 61140) Provides a general introduction to the impacts of multiculturalism and the social studies of science on science education. Implications for science educational curriculum theory, classroom practice and research are explored. Teaching topics examined include race and gender in science education, culture of science and science in a global context..

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CI 71141 NATURE OF SCIENCE IN SCIENCE EDUCATION 3 Credit Hours**

(Slashed with CI 61141) Course in issues relating to the nature of science as it impacts science education.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CI 75592 PRACTICUM IN ADAPTED PHYSICAL EDUCATION 3 Credit Hours**

(Repeatable for credit) Supervised and supervisory experiences in motor development for all ages and abilities, including conceptual bases for assessment and individualized task analysis.

**Prerequisite:** Doctoral standing; and special approval.

**Schedule Type:** Practical Experience

**Contact Hours:** 9 other

**Grade Mode:** Standard Letter-IP

**CI 77001 FUNDAMENTALS OF CURRICULUM 3 Credit Hours**

(Slashed with CI 67001) Orientation to the curriculum field. Theoretical examination of foundations, elements, design and development of school, college and non-school curricula.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CI 77002 CURRICULUM LEADERSHIP 3 Credit Hours**

Course explores the theories and practices of curriculum leadership with reference to the current politics of education and the democratic ideals of information-age, pluralistic societies. Mandated accountability reform is critically compared to invited professional renewal. It is recommended that students complete CI 77001 or a compatible professional experience with fundamentals of curriculum work is before taking this course.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CI 77003 TEACHER EDUCATION 3 Credit Hours**

(Slashed with CI 67003) Course provides a broad overview of teacher education, including curriculum, organization, governance and policy.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CI 77004 PROFESSIONAL DEVELOPMENT IN TEACHING 3 Credit Hours**

(Slashed with CI 67004) Course provides a broad overview and conceptual framework for professional development; its historical, cultural, psychological and social contexts.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CI 77005 INTERCULTURAL DIMENSIONS OF TEACHING AND LEARNING 3 Credit Hours**

(Slashed with CI 67005) Course addresses teaching and learning in the intercultural K-16 context. Increasing intercultural interaction in schools and communities across the nation and around the world are prompting educational changes in terms of what is being taught and how it is being taught. Educators at all levels are increasingly being called upon to enhance their own intercultural competence and to consider how best to translate this to students in their charge.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CI 77010 CURRICULUM EVALUATION 3 Credit Hours**

(Slashed with CI 67010) Students learn to plan for and use a variety of techniques to gather information in systematic ways, across different phases of curriculum planning, development, implementation and evaluation to enhance decision-making processes. Students develop evaluation questions around a curriculum or program of their choice and then design a detailed evaluation plan.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CI 77092 ADVANCED PRACTICUM IN CURRICULUM AND INSTRUCTION 1-3 Credit Hours**

(Repeatable for credit) Supervised practicum in curriculum design, development, implementation and-or leadership. Planned with and directed by a graduate faculty member. Students are required to complete Bureau of Criminal Investigation and Identification (BCII) and Federal Bureau of Investigation (FBI) background checks and submit the results to authorized personnel at their assigned school-agency before the first day of the semester in which student teaching internship will take place.

**Prerequisite:** Doctoral standing; and special approval.

**Schedule Type:** Practical Experience

**Contact Hours:** 3-9 other

**Grade Mode:** Satisfactory/Unsatisfactory

**CI 77095 SPECIAL TOPICS IN CURRICULUM AND INSTRUCTION 1-5 Credit Hours**

(Slashed with CI 67095)(Repeatable for credit) Specialized offerings in response to emerging or selected program needs in curriculum design, development and implementation.

**Prerequisite:** Doctoral standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 1-5 lecture

**Grade Mode:** Standard Letter

**CI 77096 INDIVIDUAL INVESTIGATION IN CURRICULUM AND INSTRUCTION 1-5 Credit Hours**

(Repeatable for credit) Directed independent reading and/or research of special interest or need in student's program. Planned with and directed by a graduate faculty member.

**Prerequisite:** Doctoral standing; and special approval.

**Schedule Type:** Individual Investigation

**Contact Hours:** 1-5 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**CI 77105 IMPROVING CLASSROOM INSTRUCTION 3 Credit Hours**

(Slashed with CI 67105) Emphasizes motivation, varied materials and methods individual needs and sources of teacher help. Class members define goals and means.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CI 77107 CURRICULUM AND ORGANIZATION IN THE MIDDLE GRADES 3 Credit Hours**

(Slashed with CI 67107) Course enhances students' knowledge, skills and dispositions about curriculum history and organization of middle schools (grades 4-9) that is developmentally responsive to early adolescents, and promotes student achievement and equity. In addition, students are able to extend their knowledge, skills, techniques and professional dispositions as related to middle school students' experiences, as well as to differentiate curriculum and assessment for diverse learners.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CI 77108 TEACHING AND LEARNING IN THE MIDDLE GRADES 3 Credit Hours**

(Slashed with CI 67108) Course emphasizes theories of learning and teaching and their application to teaching in middle childhood classrooms with a diversity of learners. Major class topics include lesson planing, teaching strategies, assessment, classroom management and effective classroom instructions. In a concurrent clinical field experience, teacher candidates apply teaching methods in intermediate-middle school classrooms.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CI 77224 TEACHING MATHEMATICS USING COMPUTERS AND CALCULATORS 3 Credit Hours**

(Slashed with CI 67224) Students develop knowledge of research and theories regarding teaching and learning mathematics via computing devices. Students develop proficiency in the use of computing devices and software that would be used in the teaching and learning of mathematics.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CI 77225 RESEARCH IN MATHEMATICS EDUCATION 3 Credit Hours**

(Slashed with CI 67225) Current research theory, methodology and results in mathematics education are investigated. Implications for instructional practice and curriculum design are examined.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CI 77226 IMPROVING MATHEMATICS INSTRUCTION IN MIDDLE CHILDHOOD 3 Credit Hours**

(Slashed with CI 67226) Instructional psychology and materials, including technology, for the effective teaching of mathematics in grades 3-8, with a theoretical emphasis on cognitive development.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CI 77227 ASSESSMENT IN MATHEMATICS EDUCATION 2 Credit Hours**

(Slashed with CI 67227) Investigation of standards and practices in mathematical assessments as recommended by current research and the National Council of Teachers of Mathematics.

**Prerequisite:** Two courses from the following: ADED 52267, CI 77224, CI 77226 and/or ECED 50147; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**CI 77228 INTERVENTION IN MATHEMATICS INSTRUCTION 2 Credit Hours**

(Slashed with CI 67228) Investigation of alternative methods of teaching mathematics to diverse learners who experience difficulties in learning mathematics.

**Prerequisite:** Two courses from the following: ADED 52267, CI 77224, CI 77226 and/or ECED 50147; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**CI 77240 INTRODUCTION TO ENVIRONMENTAL EDUCATION 3 Credit Hours**

(Slashed with CI 67240) Survey course emphasizing current debates in environmental issues, exploring the interconnectedness of ecology, understanding the impact of culture and education on notions of environmental concerns, and how these ideas can be investigated within classroom contexts. The course is designed for teachers, science educators and other concerned citizens of the earth.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CI 77292 PRACTICUM IN MATHEMATICAL ASSESSMENT 2 Credit Hours**

(Repeatable for credit) Practicum experience in designing and administering both formal and informal assessments.

**Prerequisite:** Two courses from the following: ADED 52267, CI 77224, CI 77226 and/or ECED 50147; and doctoral standing.

**Schedule Type:** Practical Experience

**Contact Hours:** 6 other

**Grade Mode:** Standard Letter

**CI 77310 THEORY AND PRACTICE IN THE TEACHING OF READING 3 Credit Hours**

(Slashed with CI 67310) Nature and development of reading, approaches to instruction, relation to learning and development.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CI 77312 TEACHING WRITING AS A PROCESS 3 Credit Hours**

(Slashed with CI 67312) Course emphasizes a process approach to writing instruction in grades K-12. Examines the steps and studies of composing, evaluation and components of a school-wide program.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CI 77314 SURVEY OF YOUNG ADULT LITERATURE 3 Credit Hours**

(Slashed with CI 67314) Presents a survey of selected types of literature appropriate for students in middle school, junior high and high school. Emphasis on evaluating, selecting and teaching.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CI 77315 SURVEY OF CHILDREN'S LITERATURE 3 Credit Hours**

(Slashed with CI 67315) Wide reading in children's literature, with particular application to school curriculum and field of reading.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CI 77319 DIAGNOSIS AND REMEDIATION IN READING 3 Credit Hours**

(Slashed with CI 67319) Theory and application of diagnostic principles and remedial reading approaches with school-age children. Cultural linguistic cognitive and affective factors in diagnosing and remediating reading problems.

**Prerequisite:** CI 77310; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CI 77330 READING IN CONTENT AREAS 3 Credit Hours**

(Slashed with CI 67330) Information and competencies for improving students' reading and studying in the content areas. Focus on intermediate grades through post-secondary years.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CI 77339 WRITING ASSESSMENT AND RESPONSE 3 Credit Hours**

(Slashed with CI 67339) Exploration of issues in writing assessment, theoretical base for effective formative response to student writing, and design and implementation of writing assessment measures.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CI 77351 PERSPECTIVES ON LITERACY RESEARCH 3 Credit Hours**

(Slashed with CI 67351) Inquiry into basic concepts and agendas for research through a study of historical, landmark and ground-breaking studies in literacy.

**Prerequisite:** Curriculum and Instruction major; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CI 77352 LITERACY COACHING 3 Credit Hours**

(Slashed with CI 67352) Focus on principles and strategies related to literacy coaching, within classrooms, schools and districts.

**Prerequisite:** CI 77310 and CI 77319 and CI 77330 and CI 77692 and MCED 50005; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CI 77353 MULTICULTURAL VOICES IN TEACHING CHILDREN'S AND YOUNG ADULT LITERATURE 3 Credit Hours**

(Slashed with CI 67353) Exploring diverse voices in children's and young adult literature in K-12 literacy classrooms to support culturally responsive teaching and learning and broaden student understandings of diversity.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CI 77392 ADVANCED PRACTICUM AND INTERNSHIP IN READING 1-10 Credit Hours**

(Repeatable for credit) Supervised program requiring application of theory and practices in reading in field settings. Planned with and directed by a graduate faculty member. Students are required to complete Bureau of Criminal Investigation and Identification (BCII) and Federal Bureau of Investigation (FBI) background checks and submit the results to authorized personnel at their assigned school/agency before the first day of the semester in which student teaching/internship will take place.

**Prerequisite:** Doctoral standing; and special approval.

**Schedule Type:** Practical Experience

**Contact Hours:** 3-30 other

**Grade Mode:** Standard Letter

**CI 77395 SPECIAL TOPICS IN READING 1-5 Credit Hours**

(Slashed with CI 67395)(Repeatable for credit) Specialized offerings in response to emerging or selected program needs in reading.

**Prerequisite:** Doctoral standing and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 1-5 lecture

**Grade Mode:** Standard Letter

**CI 77396 INDIVIDUAL INVESTIGATION IN READING AND LANGUAGE ARTS 1-5 Credit Hours**

(Repeatable for credit) Directed independent reading and/or research of special interest or need in student's program. Planned with and directed by a graduate faculty member.

**Prerequisite:** Doctoral standing; and special approval.

**Schedule Type:** Individual Investigation

**Contact Hours:** 1-5 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**CI 77592 PRACTICUM IN MATHEMATICS EDUCATION INTERVENTION 3 Credit Hours**

(Repeatable for credit) Experience in providing leadership in designing intervention programs for schools, and designing curriculum and instruction for individual learners that experience difficulties in learning mathematics.

**Prerequisite:** ADED 52267 and CI 77224 and CI 77226 and ECED 50147; and doctoral standing.

**Schedule Type:** Practical Experience

**Contact Hours:** 9 other

**Grade Mode:** Standard Letter

**CI 77692 CLINICAL PRACTICUM IN CORRECTIVE READING 3 Credit Hours**

Application of previous courses includes supervised diagnostic/prescriptive reading work with school-age pupils and diagnostic/remedial reporting.

**Prerequisite:** CI 77319; and doctoral standing; and special approval.

**Schedule Type:** Practical Experience

**Contact Hours:** 9 other

**Grade Mode:** Standard Letter

**CI 77791 SEMINAR IN MATHEMATICS EDUCATION 3 Credit Hours**

(Repeatable for credit) An in-depth exploration of the theoretical frameworks and methodologies used in current research in mathematics education.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Seminar

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter



**CI 80089 RESIDENCY I 3 Credit Hours**

Beginning doctoral seminar. Students explore the field of curriculum and instruction by reading and discussing foundational and current theories and research in the field. Students begin to identify and explore their research interests in the field.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Satisfactory/Unsatisfactory

**CI 80090 RESIDENCY II 3 Credit Hours**

Advanced doctoral seminar. Structured opportunity for students to synthesize research from the field, explore research options for their dissertation study, review literature for their research studies and discuss the development of their research.

**Prerequisite:** CI 80089; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Satisfactory/Unsatisfactory

**CI 80199 DISSERTATION I 15 Credit Hours**

(Repeatable for credit) Doctoral dissertation for which registration in at least two semesters is required, first of which will be semester in which dissertation work is begun and continuing until the completion of 30 hours.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Dissertation

**Contact Hours:** 15 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**CI 80299 DISSERTATION II 15 Credit Hours**

(Repeatable for credit) Continuing registration required of doctoral students who have completed the initial 30 hours of dissertation and continuing until all degree requirements are met.

**Prerequisite:** CI 80199; and doctoral standing.

**Schedule Type:** Dissertation

**Contact Hours:** 15 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**CI 85025 CONTEMPORARY ISSUES IN SPORT PEDAGOGY - AN INTERNATIONAL PERSPECTIVE 3 Credit Hours**

(Slashed with CI 65025) An international perspective on the investigation and study of current problems, issues and trends in sport pedagogy.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CI 85037 ADAPTED PHYSICAL EDUCATION 3 Credit Hours**

(Slashed with CI 65037) Course prepares physical education teachers to provide safe, appropriate and individualized accommodations to students with disabilities. All information presented is structured around research-based and cross-culturally appropriate practices in adapted physical education that have been implemented in physical education programs globally.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CI 85044 PEDAGOGICAL ANALYSIS OF PHYSICAL EDUCATION AND SPORT 3 Credit Hours**

(Slashed with CI 65044) An analysis of contemporary pedagogical models, practices and theories relevant to the multidimensional environments of physical education and sport.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CI 85055 CURRICULUM DEVELOPMENT IN SPORT PEDAGOGY 3 Credit Hours**

(Slashed with CI 65055) The analysis, development and design of curricular theory and practice in physical education and sport. An examination of current and future issues in curriculum implementation.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CI 87000 THEORY AND RESEARCH IN TEACHING 3 Credit Hours**

Focuses on critical study of contrasting approaches to the study of teaching processes. Surveys issues to give students a more critical perspective and to provoke thought about the relationship among theory research and practice.

**Prerequisite:** Doctoral standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CI 87001 THEORY AND RESEARCH IN CURRICULUM 3 Credit Hours**

Focuses on historic and contemporary examples of curriculum theory and their application in curriculum design, development and evaluation. Examines modes of inquiry used by curriculum researchers and contemporary curriculum issues.

**Prerequisite:** CI 77001; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CI 87002 FORMS OF INQUIRY IN CURRICULUM AND INSTRUCTION 3 Credit Hours**

Introduction to the history, context, philosophy and ethics of inquiry in curriculum and instruction. Emphasis on acquainting students with faculty lines of inquiry and research foci while preparing them for critical consumption of and significant contribution to inquiry in curriculum and instruction.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**CI 87091 SEMINAR IN CURRICULUM AND INSTRUCTION 1-4 Credit Hours**

(Slashed with CI 87091)(Repeatable for credit) A wide range of topics for advanced graduate inquiry. Normally, course provides a balance of theoretical study and creative application.

**Prerequisite:** Doctoral standing; and special approval.

**Schedule Type:** Seminar

**Contact Hours:** 1-4 other

**Grade Mode:** Standard Letter-IP

**CI 87098 RESEARCH IN CURRICULUM AND INSTRUCTION 1-15****Credit Hours**

(Repeatable for credit) Students pursue an individualized research project on a specialized topic with approval and under direction of instructor.

**Prerequisite:** Doctoral standing; and special approval.

**Schedule Type:** Research

**Contact Hours:** 1-15 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**CI 87340 RESEARCH IN READING 3 Credit Hours**

An introduction to a perspective on psychological processes underlying levels of reading from pre-reading to mature reading with implications for instruction.

**Prerequisite:** Doctoral standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CI 87342 SEMINAR IN READING AND LANGUAGE 3 Credit Hours**

Exploration of some of the issues, methods and findings on the relationship of reading and language. Examination of selected issues such as dialect bilingualism readability language based-strategies for reading instruction.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CI 87343 RESEARCH IN TEACHING OF WRITING 3 Credit Hours**

Issues and methodologies in research in the teaching of writing. Students review the literature and conduct research in a significant area of writing instruction.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CI 87391 SEMINAR IN READING 1-4 Credit Hours**

(Repeatable for credit) Variable topic seminar for advanced study of specialized areas and topics. Normally designed around research and theory applied to practice.

**Prerequisite:** Doctoral standing; and special approval.

**Schedule Type:** Seminar

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**CI 87398 RESEARCH IN READING AND LANGUAGE ARTS 1-15 Credit Hours**

(Repeatable for credit) Students pursue an individualized research project on a specialized topic with approval and under direction of instructor.

**Prerequisite:** Doctoral standing; and special approval.

**Schedule Type:** Research

**Contact Hours:** 1-15 other

**Grade Mode:** Standard Letter

**CI 87517 NEW LITERACIES IN PRACTICE 3 Credit Hours**

(Slashed with CI 67517) Developing technologies are changing the very definition of literacy. Designed to provide an overview of current (and past) theory and practices related to the growing line of inquiry known as new literacies. Participants of the class follow their own paths of inquiry related to the question: How is the definition of literacy changing? Participants engage in discussions of theoretical positions related to this question (from perspectives as new literacies, multi-literacies and arts-based knowing to name a few) as well as encounter the basics of creating a blog or wiki and editing video. Appropriate for any educator who is interested in examining how new literacies are transforming the classrooms.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CI 87791 DOCTORAL SEMINAR IN MATHEMATICS EDUCATION 1-3 Credit Hours**

(Repeatable for a maximum of 12 credit hours) Variable content seminar covering mathematics education. Students must seek faculty advisor recommendation prior to registration.

**Prerequisite:** Curriculum and Instruction major; and doctoral standing.

**Schedule Type:** Seminar

**Contact Hours:** 1-3 other

**Grade Mode:** Standard Letter

## Career and Technical Teacher Education (CTTE)

**CTTE 36014 EVALUATION PRACTICES IN CAREER TECHNICAL EDUCATION 3 Credit Hours**

Study and construction of evaluation devices for use in laboratory and related technology courses, test construction, standardized and nonstandardized test procedures. This course includes 10 field/clinical hours.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CTTE 40093 VARIABLE TOPIC WORKSHOP IN CAREER TECHNICAL EDUCATION 1-5 Credit Hours**

(Repeatable for credit) (Slashed with CTTE 50093 and CTTE 70093)

Topics of special interest to students desiring to intensify their knowledge in a particular area of career technical education.

**Prerequisite:** Department permission.

**Schedule Type:** Workshop

**Contact Hours:** 1-5 other

**Grade Mode:** Satisfactory/Unsatisfactory

**CTTE 44092 IN-SERVICE TEACHING - PRACTICUM (ELR) 2 Credit Hours**

(Slashed with CTTE 54092) This course provides an overview of/and practice in the concepts necessary to plan, organize and implement meaningful instruction in the laboratory and related classroom. The course provides an opportunity for students to apply classroom management skills as they get one-on-one support from the teacher educators.

**Prerequisite:** None.

**Schedule Type:** Practical Experience

**Contact Hours:** 36 other

**Grade Mode:** Standard Letter

**Attributes:** Experiential Learning Requirement

**CTTE 44099 IN-SERVICE TEACHING - CAPSTONE (ELR) 1 Credit Hour**

(Slashed with CTTE 54099) The capstone course provides students an opportunity to demonstrate their knowledge and growth as a career technical education teacher; it essentially provides an opportunity for students to show how they integrate and apply knowledge from their career technical education licensure courses into their responsibilities as teachers. The course will assess the extent to which the students meet the Ohio Standards for the Teaching Profession, through an electronic portfolio and instructional videos from the student as evidence.

**Prerequisite:** None.

**Schedule Type:** Project or Capstone

**Contact Hours:** 1 other

**Grade Mode:** Standard Letter

**Attributes:** Experiential Learning Requirement

**CTTE 45372 ISSUES IN CAREER TECHNICAL EDUCATION SUBJECTS 3 Credit Hours**

(Slashed with CTTE 55372) Exploration of issues and trends unique to specific career technical education subjects.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CTTE 45377 CAREER AND TECHNICAL EDUCATION: ADVANCED METHODOLOGIES 3 Credit Hours**

Selection, organization and presentation of subject matter pertaining to specific subjects in career and technical education. Emphasis on methods and techniques through theory and practice. Course includes 30 field/clinical hours. Students are required to complete Bureau of Criminal Investigation and Identification (BCII) and Federal Bureau of Investigation (FBI) background checks and submit the results to authorized personnel at their assigned school/agency before the first day of the semester in which student teaching/ internship will take place.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CTTE 46001 ORGANIZATION OF CAREER AND TECHNICAL EDUCATION (WIC) 3 Credit Hours**

(Slashed with CTTE 56001) Study of the principles and subject areas related to career and technical education at middle school, secondary and adult education levels.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Writing Intensive Course

**CTTE 46002 IN-SERVICE TEACHING (ELR) 3 Credit Hours**

(Slashed with CTTE 56002) Overview of teaching process in career technical teacher education. Emphasizes techniques of skill development and assessment, includes organizing for instruction, individual behavior, organizational relationships and application steps.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Experiential Learning Requirement

**CTTE 46015 METHODS OF CAREER AND TECHNICAL EDUCATION 3 Credit Hours**

(Slashed with CTTE 56015) Organization and management of classroom and laboratory; includes purchasing equipment and supplies, safety instruction planning, establishing policies, maintaining records, and individual and group instructional strategies.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CTTE 46017 STUDENT-CENTERED LEADERSHIP IN CAREER TECHNICAL EDUCATION 3 Credit Hours**

Study of the role of leadership and youth organizations in Career Technical Education with emphasis on the organization and purpose of student leadership and the role of the advisor related to leadership in career technical education.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CTTE 46018 DISADVANTAGED YOUTH IN CAREER TECHNICAL EDUCATION (WIC) 3 Credit Hours**

(Slashed with CTTE 56018) Developing an understanding of disadvantaged youth stressing their characteristics as they pertain to career technical education program. This course is restricted to Trade & Industrial majors, students registered in the undergraduate Career-Technical Teacher certificate, of those working on a Career-Based Intervention endorsement.

**Prerequisite:** Trade and Industrial Education majors or Career-Technical Teacher Education (C205) certificate.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Writing Intensive Course

**CTTE 46019 COORDINATION OF CAREER TECHNICAL COOPERATIVE EDUCATION PROGRAMS 3 Credit Hours**

(Slashed with CTTE 56019) Reviews duties, problems, techniques of home, school and work coordination. Internship site selection, job development, servicing the job station, coordinating classroom and work experience. A study of important linkage to local business/industry and education support agencies for career and technical development.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CTTE 46020 CURRICULUM GUIDE:DESIGN AND APPLICATION 3 Credit Hours**

Methods and techniques involved in developing and utilizing a curriculum guide in career and technical education subjects. This course includes 15 field/clinical hours. Students are required to complete Bureau of Criminal Investigation and Identification (BCII) and Federal Bureau of Investigation (FBI) background checks and submit the results to authorized personnel at their assigned school/agency before the first day of the semester in which student teaching/ internship will take place.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CTTE 46095 SPECIAL TOPICS IN CAREER TECHNICAL EDUCATION 1-3 Credit Hours**

(Repeatable for credit) Specialized offerings in response to emerging or selected program needs in career-technical education.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 1-3 lecture

**Grade Mode:** Standard Letter

**CTTE 46096 INDIVIDUAL INVESTIGATION IN CAREER TECHNICAL EDUCATION 1-3 Credit Hours**

(Repeatable for credit) (Slashed with CTTE 56096) An individual investigation into problems and topics in career technical education. The investigation is pursued on an individual basis with an assigned faculty member.

**Prerequisite:** None.

**Schedule Type:** Individual Investigation

**Contact Hours:** 1-3 other

**Grade Mode:** Satisfactory/Unsatisfactory

**CTTE 49525 INQUIRY INTO PROFESSIONAL PRACTICE 3 Credit Hours**

Interdisciplinary inquiry into career/technical teaching as a professional practice in education;emphasis on teacher as disciplined investigator. Final course of four. Combination of themes utilization of teaching learning technologies.

**Prerequisite:** Admission to advanced study.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CTTE 50093 VARIABLE TOPIC WORKSHOP IN CAREER TECHNICAL EDUCATION 1-5 Credit Hours**

(Repeatable for credit) (Slashed with CTTE 40093 and CTTE 70093) Topics of special interest to students desiring to intensify their knowledge in a particular area or areas of career technical education.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Workshop

**Contact Hours:** 1-5 other

**Grade Mode:** Satisfactory/Unsatisfactory

**CTTE 54092 IN-SERVICE TEACHING - PRACTICUM 2 Credit Hours**

(Slashed with CTTE 44092) This course provides an overview of/and practice in the concepts necessary to plan, organize and implement meaningful instruction in the laboratory and related classroom. The course provides an opportunity for students to apply classroom management skills and as they get one-on-one support from the teacher educators.

**Prerequisite:** Graduate standing.

**Schedule Type:** Practical Experience

**Contact Hours:** 36 other

**Grade Mode:** Standard Letter

**CTTE 54099 IN-SERVICE TEACHING - CAPSTONE 1 Credit Hour**

(Slashed with CTTE 44099) The capstone course provides students an opportunity to demonstrate their knowledge and growth as a career technical education teacher; it essentially provides an opportunity for students to show how they integrate and apply knowledge from their career technical education licensure courses into their responsibilities as teachers. The course will assess the extent to which the students meet the Ohio Standards for the Teaching Profession, through an electronic portfolio and instructional videos from the student as evidence.

**Prerequisite:** Graduate standing.

**Schedule Type:** Project or Capstone

**Contact Hours:** 1 other

**Grade Mode:** Standard Letter

**CTTE 55372 ISSUES IN CAREER TECHNICAL EDUCATION SUBJECTS 3 Credit Hours**

(Slashed with CTTE 45372) Exploration of issues and trends unique to specific career-technical education subjects.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CTTE 55377 CAREER AND TECHNICAL EDUCATION:ADVANCED METHODOLOGIES 3 Credit Hours**

(Slashed with CTTE 45377) Selection, organization and presentation of subject matter pertaining to specific subjects in career and technical education. Emphasis on methods and techniques through theory and practice. Course includes 30 field clinical hours.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CTTE 56001 ORGANIZATION OF CAREER AND TECHNICAL EDUCATION 3 Credit Hours**

(Slashed with CTTE 46001) Study of the principles and subject areas related to career and technical education at middle school, secondary and adult education levels.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CTTE 56002 IN-SERVICE TEACHING 3 Credit Hours**

(Slashed with CTTE 46002) Overview of teaching process in career technical teacher education. Emphasizes techniques of skill development and assessment, includes organizing for instruction, individual behavior, organizational relationships and application steps.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CTTE 56015 METHODS OF CAREER AND TECHNICAL EDUCATION 3 Credit Hours**

(Slashed with CTTE 46015) Organization and management of classroom and laboratory; includes purchasing equipment and supplies, safety instruction planning, establishing policies, maintaining records, and individual and group instructional strategies.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CTTE 56017 STUDENT-CENTERED LEADERSHIP IN CAREER TECHNICAL EDUCATION 3 Credit Hours**

Study of the role of leadership and youth organizations in Career Technical Education with emphasis on the organization and purpose of student leadership and the role of the advisor related to leadership in career technical education.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CTTE 56018 DISADVANTAGED YOUTH IN CAREER TECHNICAL EDUCATION 3 Credit Hours**

(Slashed with CTTE 46018) Developing an understanding of disadvantaged youth stressing their characteristics as they pertain to career technical education programs.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CTTE 56019 COORDINATION OF CAREER TECHNICAL COOPERATIVE EDUCATION PROGRAMS 3 Credit Hours**

(Slashed with CTTE 46019) Reviews duties, problems, techniques of home, school and work coordination. Internship site selection, job development, servicing the job station, coordinating classroom and work experience. A study of important linkage to local business/ industry and education support agencies for career and technical development.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CTTE 56020 CURRICULUM GUIDE: DESIGN AND APPLICATION 3 Credit Hours**

(Slashed with CTTE 46020) Methods and techniques involved in developing and utilizing a curriculum guide in career and technical education subjects. This course includes 15 field clinical hours.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CTTE 56095 SPECIAL TOPICS IN CAREER TECHNICAL EDUCATION 1-3 Credit Hours**

(Repeatable for credit) Specialized offerings in response to emerging or selected program needs in career-technical education.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 1-3 lecture

**Grade Mode:** Standard Letter

**CTTE 56096 INDIVIDUAL INVESTIGATION IN CAREER TECHNICAL EDUCATION 1-3 Credit Hours**

(Repeatable for credit) (Slashed with CTTE 46096) An individual investigation into problems and topics in career technical education. The investigation is pursued on an individual basis with an assigned faculty member.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Individual Investigation

**Contact Hours:** 1-3 other

**Grade Mode:** Satisfactory/Unsatisfactory

**CTTE 59525 INQUIRY INTO PROFESSIONAL PRACTICE 3 Credit Hours**

(Slashed with CTTE 49525) Interdisciplinary inquiry into career/technical teaching as a professional practice in education; emphasis on teacher as disciplined investigator. Final course of four. Combination of themes; utilization of teaching/learning technologies.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CTTE 60199 THESIS I 2-6 Credit Hours**

Thesis students must register for a total of 6 hours, 2 to 6 hours in a single semester distributed over several semesters if desired.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Masters Thesis

**Contact Hours:** 2-6 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**CTTE 60299 THESIS II 2 Credit Hours**

Thesis students must continue registration each semester until all degree requirements are met.

**Prerequisite:** CTTE 60199; and graduate standing.

**Schedule Type:** Masters Thesis

**Contact Hours:** 2 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**CTTE 66001 PRINCIPLES AND PRACTICES IN CAREER TECHNICAL EDUCATION 3 Credit Hours**

Study of principles, current practices and trends relating to modern programs of career technical education and relationships to the total plan of public education.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CTTE 66003 ANALYSIS OF HUMAN RESOURCE DEVELOPMENT 3 Credit Hours**

Provides analysis of human resource development from global, national state and local perspectives including social economic political and demographic influences. Includes the application of the contemporary workforce to engage in life long learning to keep career and technical skills updated.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter



**CTTE 66004 PROGRAM EVALUATION IN CAREER TECHNICAL EDUCATION 3 Credit Hours**

Designed to provide the skills and knowledge necessary to evaluate the effectiveness and efficiency of career-technical education curriculum programs personnel.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CTTE 66005 SPECIAL POPULATIONS IN CAREER TECHNICAL EDUCATION 3 Credit Hours**

A study of the special populations student in career technical education programs emphasizing characteristics, curriculum modification, instruction and job placement.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CTTE 66095 SPECIAL TOPICS IN CAREER-TECHNICAL EDUCATION 1-3 Credit Hours**

(Repeatable for credit) Specialized offerings in response to emerging or selected program needs in career-technical education.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 1-3 lecture

**Grade Mode:** Standard Letter

**CTTE 66096 INDIVIDUAL INVESTIGATION IN CAREER-TECHNICAL EDUCATION 1-3 Credit Hours**

(Repeatable for credit) (Slashed with CTTE 76096) An investigation into problems and topics in career technical education. The investigation is pursued on an individual basis with an assigned faculty member.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Individual Investigation

**Contact Hours:** 1-3 other

**Grade Mode:** Satisfactory/Unsatisfactory

**CTTE 70093 VARIABLE TOPIC WORKSHOP IN CAREER TECHNICAL EDUCATION 1-5 Credit Hours**

(Repeatable for credit) (Slashed with CTTE 40093 and CTTE 50093)

Topics of special interest to students desiring to intensify their knowledge in a particular area or areas of career technical education.

**Prerequisite:** Doctoral standing; and special approval.

**Schedule Type:** Workshop

**Contact Hours:** 1-5 other

**Grade Mode:** Satisfactory/Unsatisfactory

**CTTE 76095 SPECIAL TOPICS IN CAREER-TECHNICAL EDUCATION 1-3 Credit Hours**

(Repeatable for credit) Specialized offerings in response to emerging or selected program needs in career-technical education.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 1-3 lecture

**Grade Mode:** Standard Letter

**CTTE 76096 INDIVIDUAL INVESTIGATION IN CAREER-TECHNICAL EDUCATION 1-3 Credit Hours**

(Repeatable for credit) (Slashed with CTTE 66096) An investigation into problems and topics in career technical education. The investigation is pursued on an individual basis with an assigned faculty member.

**Prerequisite:** Doctoral standing; and special approval.

**Schedule Type:** Individual Investigation

**Contact Hours:** 1-3 other

**Grade Mode:** Satisfactory/Unsatisfactory

**CTTE 86098 ADVANCED RESEARCH IN CAREER-TECHNICAL EDUCATION 1-15 Credit Hours**

(Repeatable for credit) Student pursues an individual research project on a specialized career technical education topic with approval and under the direction of an instructor.

**Prerequisite:** Doctoral standing; and special approval.

**Schedule Type:** Research

**Contact Hours:** 1-15 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

## Early Childhood Education (ECED)

**ECED 10120 INTRODUCTION TO EARLY CHILDHOOD SERVICES 2 Credit Hours**

Orientation to the field of early childhood education: historical and present day programs and services for young children 0-8.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**ECED 20101 UNDERSTANDING YOUNG CHILDREN'S DEVELOPMENT 3 Credit Hours**

Growth and development of young children from birth to age 11 as it occurs along both typical and atypical pathways. There are field-based assignments in this course.

**Prerequisite:** Minimum C grade in ECED 10120; and special approval.

**Pre/corequisite:** Minimum C grade in SPED 23000; and admission to advanced study.

**Corequisite:** ECED 20102, ECED 20103, ECED 20104 and ECED 20192 (Block I).

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ECED 20102 SOCIAL STUDIES AND THE ARTS IN PRESCHOOL 3 Credit Hours**

Young children's development in the expressive arts and social studies; implications for development of the environment, integrated curriculum and teaching methods for preschool children. There are field-based assignments in this course.

**Prerequisite:** Admission to advanced study.

**Corequisite:** ECED 20101, ECED 20103, ECED 20104 and ECED 20192 (Block I).

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ECED 20103 SEMINAR: PRESCHOOL TEACHING AND LEARNING 3 Credit Hours**

(Equivalent to ECET 22000) Integrated field-based seminar that gives students a foundation for the ways children learn during preschool years. Field-based assignments are included. Students are required to complete Bureau of Criminal Investigation and Identification (BCII) and Federal Bureau of Investigation (FBI) background checks and submit the results to authorized personnel at their assigned school or agency before the first day of the semester.

**Prerequisite:** Admission to advanced standing.

**Corequisite:** ECED 20101, ECED 20102, ECED 20104 and ECED 20192 (Block I).

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ECED 20104 PARTNERING WITH FAMILIES FOR EFFECTIVE GUIDANCE 3 Credit Hours**

(Equivalent to ECET 21005) Appropriate guidance strategies set the foundation for positive experiences our youngest children in school; patterns learned early often set a foundation for primary school entry. This course addresses the concerns of guidance, family partnerships, and inclusive schooling with preschool children and their educators. It takes a proactive stance, helping teachers develop a constructive guidance approach. There are field-based assignments in this course.

**Prerequisite:** Admission to advanced study.

**Corequisite:** ECED 20101, ECED 20102, ECED 20103 and ECED 20192 (Block I).

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ECED 20163 UNDERSTANDING YOUNG CHILDREN: TYPICAL AND ATYPICAL PATHWAYS 3 Credit Hours**

Growth and development of young children from birth to age eight as it occurs along both typical and atypical pathways. Pre/Corequisite: SPED 23000; and admission to advanced study.

**Prerequisite:** ECED 10120; and special approval.

**Corequisite:** ECED 30134 and 30164 and 40145.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** TAG Education

**ECED 20192 CLINICAL EXPERIENCE IN PRESCHOOL (ELR) 3 Credit Hours**

(Equivalent to ECET 22192) Internship in preschool settings. Official valid certification of Child Safety Training, approved Basic Life Support and A.L.I.C.E. Training must be presented to the campus office of clinical experience or designated faculty-staff at Regional campuses as prerequisite for student teaching.

**Prerequisite:** Admission to advanced study.

**Corequisite:** ECED 20101, ECED 20102, ECED 20103 and ECED 20104 (Block I).

**Schedule Type:** Practical Experience

**Contact Hours:** 15 other

**Grade Mode:** Satisfactory/Unsatisfactory

**Attributes:** Experiential Learning Requirement

**ECED 22222 INTEGRATED PRIMARY CURRICULUM 3 Credit Hours**

This course extends student's knowledge of the application of integrated curriculum through the study and critique of pedagogical and curricular approaches in the early primary years classroom. This course has a field component attached to it. Students are required to complete Bureau of Criminal Investigation and Identification (BCII) and Federal Bureau of Investigation (FBI) background checks and submit the results to authorized personnel at their assigned school-agency before the first day of the semester in which student teaching internship will take place.

**Prerequisite:** Minimum C grade in the following courses ECED 20101, ECED 20102, ECED 20103, ECED 20104 and ECED 20192 (Block I); and admission to advanced study.

**Corequisite:** ECED 30201, ECED 30202 and ECED 40203 (Block II).

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ECED 30123 LANGUAGE AND LITERACY FOR THE PRESCHOOL CHILD 3 Credit Hours**

(Equivalent to ECET 22130) An examination of the process of language and literacy development in preschool children. The course focuses on how preschool teachers integrate knowledge of development with early school and family literacy learning.

**Prerequisite:** Admission to advanced study.

**Corequisite:** ECED 30142 and ECED 30147 and ECED 40165 and ECED 40192 (ECED Block II).

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ECED 30134 INTEGRATED EXPRESSIVE ARTS AND SOCIAL STUDIES IN PRESCHOOL 3 Credit Hours**

Young children's development in the expressive arts and social studies; implications for development of the environment, integrated curriculum and teaching methods for preschool children.

**Prerequisite:** Admission to advanced study.

**Corequisite:** ECED 20163 and ECED 30164 and ECED 40145 (ECED Block I).

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ECED 30142 PARTNERSHIPS AND GUIDANCE FOR PRESCHOOL CHILDREN 3 Credit Hours**

(Equivalent to ECET 21005) Appropriate guidance strategies set the foundation for positive experiences our youngest children in school; patterns learned early often set a foundation for primary school entry. This course addresses the concerns of guidance family partnerships and inclusive schooling with preschool children and their educators. It takes a proactive stance, helping teachers develop a constructive guidance approach.

**Prerequisite:** Admission to advanced study.

**Corequisite:** ECED 30123 and ECED 30147 and ECED 40165 and ECED 40192 (ECED Block II).

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ECED 30144 INTEGRATED CURRICULUM FOR SOCIAL STUDIES 3 Credit Hours**

Objectives, resources, curriculum development, methods of teaching social studies and expressive arts at kindergarten and primary levels; emphasis on developing integrated social studies curriculum; infusing multiple forms of expressive arts into integrated curriculum and assessment; and engaging professional collaboration with teachers in the field.

**Prerequisite:** ECED 30134; and admission to advanced study.

**Corequisite:** ECED 40142 and ECED 40105 and ECED 40107 and ECED 40123.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ECED 30147 EARLY EXPERIENCES IN MATHEMATICS AND SCIENCE 3 Credit Hours**

Instructional psychology and materials for effective teaching of mathematics and science in preschool settings with a theoretical emphasis on cognitive development.

**Prerequisite:** MATH 14001 and 14002 with a minimum of a C grade; and admission to advanced study.

**Corequisite:** ECED 30123 and ECED 30142 and ECED 40165 and ECED 40192.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ECED 30164 PRESCHOOL EDUCATION 3 Credit Hours**

Integrated curriculum utilizing principles of developmentally appropriate practice in settings for children under five. Field experience two mornings a week. Students are required to complete Bureau of Criminal Investigation and Identification (BCII) and Federal Bureau of Investigation (FBI) background checks and submit the results to authorized personnel at their assigned school or agency before the first day of the semester.

**Prerequisite:** Admission to advanced standing.

**Corequisite:** ECED 20163 and ECED 30134 and ECED 40145 (ECED Block I).

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ECED 30201 LANGUAGES AND LITERACIES 3 Credit Hours**

(Slashed with ECET 22130) An examination of the process of languages and literacies development. This course focuses on teaching literacy to primary age students.

**Prerequisite:** Minimum C grade in the following courses, ECED 20101, ECED 20102, ECED 20103, ECED 20104 and ECED 20192 (Block I); and admission to advanced study.

**Corequisite:** ECED 22222, ECED 30202 and ECED 40203 (Block II).

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ECED 30202 MATHEMATICS AND SCIENCE IN THE EARLY YEARS 3 Credit Hours**

Instructional psychology and materials for effective teaching of mathematics and science in preschool settings with a theoretical emphasis on cognitive development. There are field-based projects in this course.

**Prerequisite:** ECED 20101, ECED 20102, ECED 20103, ECED 20104 and ECED 20192 (Block I) all with a minimum C grade; and admission to advanced study.

**Corequisite:** ECED 22222, ECED 30201 and ECED 40203 (Block II).

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ECED 40092 INTEGRATED FIELD EXPERIENCES (ELR) 3 Credit Hours**

(Repeatable for credit) Participation in experiences offering opportunity to plan and teach reading, language arts, integrated content units and observe students in early childhood classrooms. Students are required to complete Bureau of Criminal Investigation and Identification (BCII) and Federal Bureau of Investigation (FBI) background checks and submit the results to authorized personnel at their assigned school agency before the first day of the semester in which student teaching internship will take place.

**Prerequisite:** Admission to advanced study.

**Corequisite:** ECED 40114 and ECED 40126 and ECED 40127 and ECED 40147.

**Schedule Type:** Practical Experience

**Contact Hours:** 9 other

**Grade Mode:** Satisfactory/Unsatisfactory

**Attributes:** Experiential Learning Requirement

**ECED 40093 VARIABLE TITLE WORKSHOP IN EARLY CHILDHOOD EDUCATION 1-5 Credit Hours**

(Repeatable for credit) (Slashed with ECED 50093 and ECED 70093)

Topics of special interest to students desiring to intensify their knowledge in particular areas. Presenters include Kent early childhood faculty members and may include experts from outside agencies and other institutions.

**Prerequisite:** Permission.

**Schedule Type:** Workshop

**Contact Hours:** 3 other

**Grade Mode:** Satisfactory/Unsatisfactory

**ECED 40105 APPROPRIATE PHONICS INSTRUCTION FOR KINDERGARTEN AND PRIMARY CHILDREN 3 Credit Hours**

(Slashed with ECED 50105) An examination of phonics in early reading and writing development, effective strategies for teaching and assessing phonics appropriate for kindergarten and primary grade children.

**Prerequisite:** ECED 30123; and admission to advanced study.

**Corequisite:** ECED 30144 ECED 40107 and ECED 40123 and ECED 40142 (Block III).

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ECED 40107 TEACHING MATHEMATICS: EARLY YEARS I 3 Credit Hours**

Instructional psychology and materials for effective teaching of mathematics in grades K-1 with a theoretical emphasis on cognitive development.

**Prerequisite:** ECED 30147 and MATH 14001 and 14002; and admission to advanced study.

**Corequisite:** ECED 30144 and ECED 40105 and ECED 40123 and ECED 40142.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ECED 40114 TEACHING SCIENCE IN THE EARLY YEARS 3 Credit Hours**

(Slashed with ECED 50114) This course investigates engaging young children in inquiry-based processes of science. Emphasis is given to creating developmentally appropriate experiences in accordance to NAEYC guidelines. National and state science standards as well as the college and graduate school of education conceptual framework. Attention is focused on the use of science materials safety planning assessment and incorporating science across the curriculum.

**Prerequisite:** ECED 30147; and admission to advanced study.

**Corequisite:** ECED 40126 and ECED 40127 and ECED 40092 and ECED 40147 (Block IV).

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ECED 40123 CRITICAL INQUIRY INTO INTEGRATED CURRICULUM IN THE PRIMARY YEARS 3 Credit Hours**

(Slashed with ECED 50123) Theoretical and content background addressing integration of curriculum and global perspectives aligned with the International Baccalaureate Primary Years Program.

**Prerequisite:** Admission to advanced study.

**Corequisite:** ECED 30144 and ECED 40105 and ECED 40107 and ECED 40142.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ECED 40125 INQUIRY INTO PROFESSIONAL PRACTICE 3 Credit Hours**

Interdisciplinary inquiry into teaching as a professional practice in early childhood education. Completion of edTPA portfolio.

**Prerequisite:** ECED 40401, ECED 40402, ECED 40403, ECED 40404 and ECED 44444 (Block IV) all with a minimum C grade; and admission to advanced study.

**Corequisite:** ECED 40292.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ECED 40126 DEVELOPMENTAL READING AND WRITING: EARLY YEARS 3 Credit Hours**

(Slashed with ECED 50126) This course explores how teachers support children's literacy development through small group strategic instruction based on formative assessments.

**Prerequisite:** ECED 40105; and admission to advanced study.

**Corequisite:** ECED 40092 and ECED 40114 and ECED 40127 and ECED 40147.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ECED 40127 DEVELOPING A BALANCED LITERACY PROGRAM (WIC) 3 Credit Hours**

This course expands on the previous three literacy courses to explore how research-based instruction requires a balance of literacy learning formats; an integration with learning in the content areas and is based on assessment of individual children's writing abilities and how to design instruction to meet the needs of writers. The course specifically develops understandings about principles, practices, theories and research related to writing instruction.

**Prerequisite:** ECED 40105; and admission to advanced study.

**Corequisite:** ECED 40114 and ECED 40126 and ECED 40092 and ECED 40147.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Writing Intensive Course

**ECED 40142 HOME-SCHOOL-COMMUNITY-PARTNERSHIPS IN DIVERSE CONTEXTS (ELR) 3 Credit Hours**

(Slashed with ECED 50142) Approaches to parent and community involvement in the education and welfare of children are examined, applied, and discussed. Focuses are theories, policies, practices, skills, and knowledge of partnership building in educational settings. An emphasis on differentiation of practices for diverse communities is applied to teaching and learning in the primary grades.

**Prerequisite:** Admission to advanced study.

**Corequisite:** ECED 30144 and ECED 40105 and 40107 and 40123.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Experiential Learning Requirement, TAG Education

**ECED 40145 MUSIC MOVEMENT IN PRE-PRIMARY EDUCATION 3 Credit Hours**

(Slashed with ECED 50145) Music and movement for pre-primary children. Course intended for majors in early childhood education or other persons desiring additional work with pre-primary children.

**Prerequisite:** Admission to advanced study.

**Corequisite:** ECED 20163 and ECED 30134 and ECED 30164 (ECED Block I).

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ECED 40147 TEACHING MATHEMATICS:EARLY YEARS II 3 Credit Hours**

Instructional psychology and materials for effective teaching of mathematics in grades K-3 with a theoretical emphasis on cognitive development.

**Prerequisite:** MATH 14001 and 14002 with a minimum C grade; and admission to advanced study.

**Corequisite:** ECED 40114 and ECED 40126 and ECED 40127 and ECED 40092 (Block IV).

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ECED 40151 GUIDANCE OF YOUNG CHILDREN 3 Credit Hours**

Principles and practices of appropriate guidance for young children, intervention strategies, resources and materials for guidance.

**Prerequisite:** Admission to advanced study.

**Corequisite:** ECED 40105 and 40107 and 40142 and CULT 29535.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ECED 40165 INTEGRATED APPLICATION OF PRESCHOOL CURRICULUM 3 Credit Hours**

(Equivalent to ECET 22140) Internship in preschool. Advanced integrated preschool curriculum utilizing principles of developmentally appropriate practice focusing on infant toddler and preschool age children.

Students are required to complete Bureau of Criminal Investigation and Identification (BCII) and Federal Bureau of Investigation (FBI) background checks and submit the results to authorized personnel at their assigned school-agency before the first day of the semester in which student teaching internship will take place.

**Prerequisite:** ECED 30164.

**Corequisite:** ECED 30123 and ECED 30142 and ECED 30147 and ECED 40192.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ECED 40192 INTERNSHIP IN PRESCHOOL (ELR) 4-6 Credit Hours**

(Equivalent to ECET 22192) Internship in preschool settings, full day for fifteen weeks. Corequisites: ECED 30123 and ECED 30142 and ECED 30147 and ECED 40165

**Prerequisite:** ECED 30164; and admission to advanced study; and Official valid certification of Child Safety Training, approved Basic Life Support and ALICE Training must be presented to the campus office of clinical experience or designated faculty/staff at Regional campuses as prerequisite for student teaching.

**Schedule Type:** Practical Experience

**Contact Hours:** 20-30 other

**Grade Mode:** Satisfactory/Unsatisfactory

**Attributes:** Experiential Learning Requirement

**ECED 40196 INDIVIDUAL INVESTIGATION IN EARLY CHILDHOOD EDUCATION 1-5 Credit Hours**

(Repeatable for credit) Open to seniors in ECED. Intensive individual study on an early childhood topic selected by student and adviser.

**Prerequisite:** Admission to advanced study; and special approval.

**Schedule Type:** Individual Investigation

**Contact Hours:** 1-5 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**ECED 40203 CRITICAL INQUIRY: THE IB FRAMEWORK 3 Credit Hours**

(Slashed with ECED 50203) Theoretical and content background addressing integration of curriculum and global perspectives aligned with the International Baccalaureate Primary Years Program.

**Prerequisite:** Minimum C grade in the following courses ECED 20101, ECED 20102, ECED 20103, ECED 20104 and ECED 20192 (Block I); and admission to advanced study.

**Corequisite:** ECED 22222, ECED 30201 and ECED 30202 (Block II).

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ECED 40292 INTERNSHIP IN ELEMENTARY SCHOOLS (ELR) 4-9 Credit Hours**

(Repeatable for credit) Internship in grades K-5, full day for 15 weeks.

Students are required to complete Bureau of Criminal Investigation and Identification (BCII) and Federal Bureau of Investigation (FBI) background checks and submit the results to authorized personnel at their assigned school-agency before the first day of the semester in which student teaching internship will take place.

**Prerequisite:** ECED 40401, ECED 40402, ECED 40403, ECED 40404 and ECED 44444 (Block IV) all with a minimum C grade; official valid certification of Child Safety Training, approved Basic Life Support and ALICE Training must be presented to the campus office of clinical experience or designated faculty-staff at Regional campuses as prerequisite for student teaching; and admission to advanced study.

**Corequisite:** ECED 40125.

**Schedule Type:** Practical Experience

**Contact Hours:** 18-36 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**Attributes:** Experiential Learning Requirement

**ECED 40301 TEACHING SOCIAL STUDIES IN THE ELEMENTARY YEARS 3 Credit Hours**

Objectives, resources, curriculum development, and methods of teaching social studies K-fifth grade with an emphasis on developing integrated social studies curriculum and engaging professional collaboration with teachers in the field. Emphasis on non-dominant narratives will be considered. At least one field experience assignment will be integrated in this course.

**Prerequisite:** ECED 22222, ECED 30201, ECED 30202 and ECED 40203 (Block II) all with a minimum C grade; and ECED 20102 with a minimum of a C grade; and admission to advanced study.

**Corequisite:** ECED 40302, ECED 40303, ECED 40304 and ECED 43333 (Block III).

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ECED 40302 APPROPRIATE PHONICS INSTRUCTION AND WORD STUDY 3 Credit Hours**

(Slashed with ECED 50302) An examination of phonics in reading and writing development, effective strategies for teaching and assessing phonics appropriate for K-5 students.

**Prerequisite:** ECED 22222, ECED 30201, ECED 30202 and ECED 40203 (Block II) all with a minimum C grade; and admission to advanced study.

**Corequisite:** ECED 40301, ECED 40303, ECED 40304 and ECED 43333 (Block III).

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ECED 40303 TEACHING MATHEMATICS IN THE ELEMENTARY YEARS I 3 Credit Hours**

Instructional psychology and materials for effective teaching of mathematics in grades K-5 with a theoretical emphasis on cognitive development.

**Prerequisite:** ECED 22222, ECED 30201, ECED 30202 and ECED 40203 (Block II) all with a minimum C grade; and admission to advanced study.

**Corequisite:** ECED 40301, ECED 40302, ECED 40304 and ECED 43333 (Block III).

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter



**ECED 40304 TEACHING SCIENCE IN THE ELEMENTARY YEARS 3 Credit Hours**

(Slashed with ECED 50304) This course investigates engaging students in inquiry-based science practices and big science ideas. Emphasis is given to creating developmentally appropriate experiences.

**Prerequisite:** ECED 22222, ECED 30201, ECED 30202 and ECED 40203 (Block II) all with a minimum C grade; and admission to advanced study.

**Corequisite:** ECED 40301, ECED 40302, ECED 40303 and ECED 43333 (Block III).

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ECED 40401 TEACHING SCIENCE AND SOCIAL STUDIES IN THE ELEMENTARY YEARS 3 Credit Hours**

This course focuses on the following aspects for grades 2-5: science and social studies content and practices; planning and teaching of science and social studies; and critical literacy and non-dominant narratives. There are field-based assignments in this course.

**Prerequisite:** ECED 40301, ECED 40302, ECED 40303, ECED 40304 and ECED 43333 (Block III) all with a minimum C grade; and admission to advanced study.

**Corequisite:** ECED 40402, ECED 40403, ECED 40404 and ECED 44444 (Block IV).

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ECED 40402 DEVELOPMENTAL READING AND WRITING IN THE ELEMENTARY YEARS 3 Credit Hours**

(Slashed with ECED 50402) This course explores how teachers support children's literacy development through small group strategic instruction based on formative assessments.

**Prerequisite:** ECED 40301, ECED 40302, ECED 40303, ECED 40304 and ECED 43333 (Block III); and admission to advanced study.

**Corequisite:** ECED 40401, ECED 40403, ECED 40404 and ECED 44444 (Block IV).

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ECED 40403 DEVELOPING A BALANCED LITERACY PROGRAM IN THE ELEMENTARY YEARS (WIC) 3 Credit Hours**

This course expands on the previous three literacy courses to explore how research-based instruction requires a balance of literacy learning formats; an integration with learning in the content areas and is based on assessment of individual children's writing abilities and how to design instruction to meet the needs of writers. The course specifically develops understandings about principles, practices, theories and research related to writing instruction. There are field-based assignments in this course.

**Prerequisite:** Minimum C grade in ECED 40301, ECED 40302, ECED 40303, ECED 40304 and ECED 43333 (Block III); and admission to advanced study.

**Corequisite:** ECED 40401, ECED 40402, ECED 40404 and ECED 44444 (Block IV).

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Writing Intensive Course

**ECED 40404 TEACHING MATHEMATICS IN THE ELEMENTARY YEARS II 3 Credit Hours**

Instructional psychology and materials for effective teaching of mathematics in grades K-5 with a theoretical emphasis on cognitive development. There are field-based assignments in this course.

**Prerequisite:** ECED 40301, ECED 40302, ECED 40303, ECED 40304 and ECED 43333 (Block III) all with a minimum C grade; and admission to advanced study.

**Corequisite:** ECED 40401, ECED 40402, ECED 40403 and ECED 44444 (Block IV).

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ECED 43333 FAMILY-SCHOOL-COMMUNITY PARTNERSHIPS IN DIVERSE SETTINGS 3 Credit Hours**

Approaches to parent and community involvement in the education and welfare of children are examined, applied, and discussed. Focuses are theories, policies, practices, skills, and knowledge of partnership building in educational settings. An emphasis on differentiation of practices for diverse communities is applied to teaching and learning in the elementary grades. This course has a field component attached to it. Students are required to complete Bureau of Criminal Investigation and Identification (BCII) and Federal Bureau of Investigation (FBI) background checks and submit the results to authorized personnel at their assigned school-agency before the first day of the semester in which field work will take place.

**Prerequisite:** ECED 22222, ECED 30201, ECED 30202 and ECED 40203 (Block II) all with a minimum C grade; and admission to advanced study.

**Corequisite:** ECED 40301, ECED 40302, ECED 40303 and ECED 40304 (Block III).

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ECED 44444 DEVELOPMENT AND PEDAGOGY IN UPPER ELEMENTARY SCHOOL 3 Credit Hours**

Growth and development of children in grades four and five; implications for the application to the intermediate classroom; developmentally-appropriate practices including differentiation; examination of classroom systems and whole-child learning including impacts of trauma and stress. There are field-based assignments in this course.

**Prerequisite:** ECED 40301, ECED 40302, ECED 40303, ECED 40304 and ECED 43333 (Block III) all with a minimum C grade; and admission to advanced study.

**Corequisite:** ECED 40401, ECED 40402, ECED 40403 and ECED 40404 (Block IV).

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ECED 50093 VARIABLE TITLE WORKSHOP IN EARLY CHILDHOOD EDUCATION 1-5 Credit Hours**

(Repeatable for credit) (Slashed with ECED 40093 and ECED 70093) Variable topic workshop in early childhood education.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Workshop

**Contact Hours:** 1-5 other

**Grade Mode:** Satisfactory/Unsatisfactory

**ECED 50105 APPROPRIATE PHONICS INSTRUCTION FOR KINDERGARTEN AND PRIMARY CHILDREN 3 Credit Hours**

An examination of phonics in early reading and writing development, effective strategies for teaching and assessing phonics appropriate for kindergarten and primary grade children.

**Prerequisite:** ECED 60167; and Early Childhood Education major; and graduate standing.

**Corequisite:** ECED 50147, ECED 50114 and ECED 50126.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ECED 50114 TEACHING SCIENCE IN THE EARLY YEARS 3 Credit Hours**

(Slashed with ECED 40114) This course investigates engaging young children in inquiry-based processes of science. Emphasis is given to creating developmentally appropriate experiences in accordance to NAEYC guidelines. National and state science standards as well as the college and graduate school of education conceptual framework. Attention is focused on the use of science materials safety planning assessment and incorporating science across the curriculum.

**Prerequisite:** Graduate standing in the Master of Arts in Teaching program.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ECED 50123 CRITICAL INQUIRY INTO INTEGRATED CURRICULUM IN THE PRIMARY YEARS 3 Credit Hours**

(Slashed with ECED 40123) Theoretical and content background addressing integration of curriculum and global perspectives aligned with the International Baccalaureate Primary Years Program.

**Prerequisite:** ECED 60113 and 60152; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ECED 50125 INQUIRY INTO PROFESSIONAL PRACTICE 3 Credit Hours**

(Slashed with ECED 40125) Interdisciplinary inquiry into teaching as a professional practice in early childhood education. Completion of edTPA portfolio. Corequisites: ECED 67292

**Prerequisite:** Admission to advanced study; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ECED 50126 DEVELOPMENTAL READING AND WRITING: THE EARLY YEARS 3 Credit Hours**

(Slashed with ECED 40126) This course explores how teachers support children's literacy development through small group strategic instruction based on formative assessments.

**Prerequisite:** Early Childhood Education major within the Master of Arts in Teaching degree.

**Corequisite:** ECED 50105.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ECED 50142 HOME, SCHOOL AND COMMUNITY RELATIONS 3 Credit Hours**

(Slashed with ECED 40142) Approaches to parent and community involvement in the education and welfare of children. Understanding of role of community agencies and organizations.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ECED 50145 MUSIC AND MOVEMENT IN PRE-PRIMARY EDUCATION 3 Credit Hours**

(Slashed with ECED 40145) Music and movement for pre-primary children. Course intended for majors in early childhood education or other persons desiring additional work with pre-primary children.

**Prerequisite:** Graduate standing; and special approval from instructor.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ECED 50147 TEACHING MATHEMATICS:EARLY YEARS 3 Credit Hours**

Instructional psychology and materials for effective teaching of mathematics in prekindergarten through grade three with a theoretical emphasis on cognitive development.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ECED 50153 ORGANIZATION AND SUPERVISION OF EARLY CHILDHOOD CENTERS 3 Credit Hours**

Basic guidelines for establishing and supervising early childhood settings for infants, preschool and school age children.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ECED 50203 CRITICAL INQUIRY: THE IB FRAMEWORK 3 Credit Hours**

(Slashed with ECED 40203) Theoretical and content background addressing integration of curriculum and global perspectives aligned with the International Baccalaureate Primary Years Program.

**Prerequisite:** ECED 60113 and ECED 60152; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ECED 50301 TEACHING SOCIAL STUDIES IN K-5 CLASSROOMS 3 Credit Hours**

Social Studies objectives, resources, curriculum development, and methods of teaching K-5 with an emphasis on developing integrated social studies curriculum and engaging professional collaborations with teachers in the field is emphasized. Narratives of diversity and difference with an emphasis upon social justice pedagogies are discussed and described. At least one field based experience assignment will be integrated into teaching and learning in this course.

**Prerequisite:** Graduate standing.

**Corequisite:** ECED 50304 and ECED 50402 and ECED 50403 and ECED 50404.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ECED 50302 APPROPRIATE PHONICS INSTRUCTION AND WORD STUDY 3 Credit Hours**

(Slashed with ECED 40302) An examination of phonics in reading and writing development, effective strategies for teaching and assessing phonics appropriate for K-5 students.

**Prerequisite:** ECED 60113; and Early Childhood Education major; and graduate standing.

**Corequisite:** ECED 50303 and ECED 60152 and ECED 60201.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ECED 50303 TEACHING MATHEMATICS IN THE ELEMENTARY YEARS I 3 Credit Hours**

Instructional psychology and materials for effective teaching of mathematics in grades K-5 with a theoretical emphasis on cognitive development.

**Prerequisite:** ECED 50102 and ECED 60113 and ECED 60151; and graduate standing.

**Corequisite:** ECED 50302 and ECED 60152 and ECED 60201 and ECED 63333.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ECED 50304 TEACHING SCIENCE IN THE ELEMENTARY YEARS 3 Credit Hours**

(Slashed with ECED 40304) This course investigates engaging students in inquiry-based science practices and big science ideas. Emphasis is given to creating developmentally appropriate experiences.

**Prerequisite:** Majors enrolled in a Master of Arts in Teaching degree; and graduate standing.

**Corequisite:** ECED 50301 and ECED 50402 and ECED 50403 and ECED 50404.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ECED 50402 DEVELOPMENTAL READING AND WRITING IN THE ELEMENTARY YEARS 3 Credit Hours**

(Slashed with ECED 40402) This course explores how teachers support children's literacy development through small group strategic instruction based on formative assessments.

**Prerequisite:** ECED 50302 and ECED 50303 and ECED 60201 and ECED 63333 all with a minimum C grade; and Early Childhood Education within the Master of Arts in Teaching degree; and graduate standing.

**Corequisite:** ECED 50301 and ECED 50304 and ECED 50403 and ECED 50404.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ECED 50403 DEVELOPING A BALANCED LITERACY PROGRAM IN THE ELEMENTARY YEARS 3 Credit Hours**

This course expands on the previous three literacy courses to explore how research-based instruction requires a balance of literacy learning formats; an integration with learning in the content areas and is based on assessment of individual children's writing abilities and how to design instruction to meet the needs of writers. The course specifically develops understandings about principles, practices, theories and research related to writing instruction. There are field-based assignments in this course.

**Prerequisite:** ECED 50302 and ECED 50303 and ECED 60103 and ECED 60113 and ECED 60151 and ECED 60152 and ECED 60201; and graduate standing.

**Corequisite:** ECED 50301 and ECED 50304 and ECED 50402 and ECED 50404.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ECED 50404 TEACHING MATHEMATICS IN THE ELEMENTARY YEARS II 3 Credit Hours**

Instructional psychology and materials for effective teaching of mathematics in grades K-5 with a theoretical emphasis on cognitive development. There are field based assignments in this course.

**Prerequisite:** ECED 50303 and ECED 60152; and graduate standing.

**Corequisite:** ECED 50402 and ECED 50301 and ECED 50304 and ECED 50403.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ECED 54444 DEVELOPMENT AND PEDAGOGY IN UPPER ELEMENTARY SCHOOL 3 Credit Hours**

Growth and development of children in grades four and five; implications for the application to the intermediate classroom; developmentally-appropriate practices including differentiation; examination of classroom systems and whole-child learning including impacts of trauma and stress. There are field-based assignments in this course.

**Prerequisite:** Graduate standing.

**Pre/corequisite:** CI 67005.

**Corequisite:** ECED 50203 and ECED 60115.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ECED 60101 CONSTRUCTIVIST TEACHING IN TRADITIONAL AND NON-TRADITIONAL EARLY CHILDHOOD SETTINGS 3 Credit Hours**

Theorists and researchers with a constructivist orientation will be examined in relationship to teacher beliefs and diverse settings. The course will focus on constructivist practices emphasizing child sensitive curriculum within traditional (classrooms and schools) and non-traditional settings (museums, forests, etc.).

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ECED 60102 DEVELOPING A BALANCED LITERACY PROGRAM 3 Credit Hours**

An examination of own teaching practice focusing on assessment strategies to inform decision making for individual children and evaluation strategies to fine tune a balanced literacy program.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ECED 60103 SOCIAL STUDIES AND THE ARTS IN PRESCHOOL 3 Credit Hours**

Young children's development in the expressive arts and social studies; implications for development of the environment, integrated curriculum and teaching methods for preschool children. There are field-based assignments in this course.

**Prerequisite:** Graduate standing.

**Corequisite:** ECED 60113 and ECED 60151 and ECED 67292.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ECED 60110 TEACHING HUMANITIES: EARLY YEARS 3 Credit Hours**

Looking at Humanities through the lens of a young child's experience in learning with a focus on visual thinking and expression, music and movement.

**Prerequisite:** Admission to advanced study; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ECED 60112 HUMANITIES FOR CHILDREN 2 Credit Hours**

(Slashed with ECED 70112) Relevance of humanities as applied to education of young children.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**ECED 60113 PRESCHOOL EDUCATION 3 Credit Hours**

(Slashed with ECED 70113) In-depth study of curriculum development in preschool programs.

**Prerequisite:** Graduate standing.

**Corequisite:** ECED 60103 and ECED 60151 and ECED 67292.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ECED 60115 SCIENCE TECHNOLOGY ENGINEERING AND MATHEMATICS FOUNDATIONS FOR EARLY AND MIDDLE CHILDHOOD EDUCATION 3 Credit Hours**

(Cross-listed with MCED 60115) This course introduces early and middle childhood educators to STEM (Science, Technology, Engineering, Mathematics) for students in K-6 classrooms. This includes a foundation and overview of the what, how, and why STEM is included in K-6 classrooms. As a foundations course, students will gain exposure to integrating the STEM disciplines, assessment of mathematics and science in STEM, and aspects of developmentally appropriate STEM for early and middle childhood settings.

**Prerequisite:** ECED 50404, ECED 50304 and ECED 50303; and graduate standing.

**Corequisite:** ECED 50203.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ECED 60116 SCIENCE TECHNOLOGY ENGINEERING AND MATH INQUIRY FOR EARLY CHILDHOOD EDUCATION 3 Credit Hours**

This course builds on STEM Foundations for Early Childhood Education. Interdisciplinary teaching of STEM for young children is the main focus, with attention to specific pedagogical applications. Thus, inquiry as a pedagogic approach to STEM application is a central, concurrent feature of this course.

**Prerequisite:** ECED 60115; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ECED 60145 TEACHING SOCIAL STUDIES: EARLY YEARS 3 Credit Hours**

Involves the systematic study of the theories, methods, and materials necessary to successfully teach social studies to diverse populations of pre-Kindergarten and elementary school students growing up in a global society. The course will consider aspects of the history of social studies and theory and research in social education as a background for understanding methods and materials.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ECED 60151 SOCIOMORAL ENVIRONMENT IN EARLY CHILDHOOD EDUCATION 3 Credit Hours**

(Slashed with ECED 70151) Children's social and moral development will be explored in relationship to the context of primary classrooms. Children's social problem-solving, friendship making, guidance strategies and interventions, building and facilitating classroom communities and promoting caring classrooms will be the focus of this course.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ECED 60152 APPLICATION OF SELECTED THEORETICAL PRINCIPLES TO THE DEVELOPMENT OF YOUNG CHILDREN 3 Credit Hours**

(Slashed with ECED 70152) Examination of theories pertaining to child development which have special relevance in understanding and meeting developmental needs of young children. Application of selected theoretical principles to child development.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ECED 60156 FOUNDATIONS IN EARLY CHILDHOOD SERVICES 3 Credit Hours**

(Cross-listed with SPED 63956 and SPED 73956) Issues facing children within family/society; history of early childhood services; theoretical perspectives; implications of childhood disabilities; recommended assessment, intervention and evaluation.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ECED 60158 RECONCEPTUALIZING EARLY CHILDHOOD CURRICULUM**  
**3 Credit Hours**

(Slashed with ECED 70158) Course examines postmodern understanding of early childhood education curricula in relationship to teaching (instruction-oriented teaching vs. pedagogy-based teaching). Social, historical, legal, political, international and cultural issues that have affected early childhood education curricula practices will be critically examined.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ECED 60159 FAMILY PROFESSIONAL COLLABORATION IN EARLY CHILDHOOD**  
**3 Credit Hours**

(Cross-listed with SPED 63952) Examines issues facing families and professionals serving young children who are at risk, disabled and typically developing.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ECED 60160 TYPICAL AND ATYPICAL DEVELOPMENT IN YOUNG CHILDREN**  
**3 Credit Hours**

(Cross-listed with SPED 63955) Overview of typical/atypical development pathways age three to grade three: theories of behavior, implications of atypical development on play/learning; development within ecological framework.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ECED 60163 CONTEMPORARY ISSUES AND TRENDS IN EARLY CHILDHOOD EDUCATION**  
**3 Credit Hours**

(Slashed with ECED 70163) The course is an examination of contemporary issues with young children, families, school communities, and diverse populations detailing the philosophical, social, and political ramifications of the study of children highlighting current research, practices and policies. This course will examine a body of literature, (recent seminal works of impact in early childhood), which encompass a few of the pervasive dilemmas and debates shaping the early childhood field in the U.S. today (with a global international backdrop). International perspectives on issues will be liberally juxtaposed in conjunction with U.S. issues, and overall this course will address how educators have and can structure their practice with various communities to support young children, families, and society.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ECED 60167 LANGUAGE AND LITERACY: UNDERSTANDING DEVELOPMENT**  
**3 Credit Hours**

(Slashed with ECED 70167) The development of language in children from birth through age eight with a focus on the process of typical language development and the diversity of multi-cultural language. Topics specifically related to classroom teaching include the assessment of language delays and disorders and strategies for connecting oral language to literacy in preschool.

**Prerequisite:** Graduate standing.

**Corequisite:** ECED 60152.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ECED 60169 UNDERSTANDING EMERGENT BILINGUAL AND IMMIGRANT STUDENTS AND THEIR FAMILIES**  
**3 Credit Hours**

(Slashed with ECED 80169) This course is designed to help the general practitioner understand and know foundational concepts about multi-lingual students, immigrants, English Language Learners and their families.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ECED 60170 WRITING FOR PUBLICATION AND DISSEMINATION IN EARLY CHILDHOOD EDUCATION**  
**3 Credit Hours**

The seminar examines publication possibilities within early childhood education. A wide range of writing (e.g., journals, book reviews, training modules-manuals) will be reviewed for topics concerning young children (i.e., education, development, families, care, schools, health, and-or their teachers-providers.) This seminar will rely greatly on student participation for determining topics in support of individual interests, research, teaching practices at the university level, curriculum practices in the early childhood classrooms and settings, and more.

**Prerequisite:** Graduate standing.

**Schedule Type:** Seminar

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ECED 60171 TEACHING EMERGENT BILINGUAL AND IMMIGRANTS IN THE EARLY YEARS**  
**3 Credit Hours**

(Slashed with ECED 80171) General educators will explore the application of teaching methods and a variety of curriculum approaches for immigrant and bi-literate children, and apply more fully their work with families and communities.

**Prerequisite:** ECED 60169; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ECED 60199 THESIS I**  
**2-6 Credit Hours**

Thesis students must register for a total of 6 hours, 2 to 6 hours in a single semester distributed over several semesters if desired.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Masters Thesis

**Contact Hours:** 2-6 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP



**ECED 60201 LANGUAGE AND LITERACIES 3 Credit Hours**

An examination of the process of languages and literacies development. This course focuses on teaching literacy to primary age students.

**Prerequisite:** Graduate standing.

**Corequisite:** ECED 50302 and ECED 50303 and ECED 60152 and ECED 63333.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ECED 60299 THESIS II 2 Credit Hours**

Thesis students must continue registration each semester until all degree requirements are met.

**Prerequisite:** ECED 60199; and graduate standing.

**Schedule Type:** Masters Thesis

**Contact Hours:** 2 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**ECED 63333 FAMILY-SCHOOL-COMMUNITY PARTNERSHIPS IN DIVERSE SETTINGS 3 Credit Hours**

Approaches to parent and community involvement in the education and welfare of children are examined, applied, and discussed. Focuses are theories, policies, practices, skills, and knowledge of partnership building in educational settings. An emphasis on differentiation of practices for diverse communities is applied to teaching and learning in the primary grades.

**Prerequisite:** Graduate standing.

**Corequisite:** ECED 50302, ECED 50303, ECED 60201 and ECED 60152.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ECED 67291 SEMINAR IN EARLY CHILDHOOD EDUCATION 1-4 Credit Hours**

(Repeatable for credit) (Slashed with ECED 77291) Seminar in early childhood education.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Seminar

**Contact Hours:** 1-4 other

**Grade Mode:** Standard Letter

**ECED 67292 PRACTICUM AND INTERNSHIP IN EARLY CHILDHOOD EDUCATION 1-10 Credit Hours**

(Repeatable for credit) (Slashed with ECED 77292) Practicum/internship in early childhood education. Students are required to complete Bureau of Criminal Investigation and Identification (BCII) and Federal Bureau of Investigation (FBI) background checks and submit the results to authorized personnel at their assigned school/agency before the first day of the semester in which student teaching/ internship will take place.

**Prerequisite:** Official valid certification of Child Safety Training, approved Basic Life Support and ALICE Training must be presented to the campus office of clinical experience or designated faculty/staff at Regional campuses as prerequisite for student teaching; and graduate standing.

**Schedule Type:** Practical Experience

**Contact Hours:** 3-30 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**ECED 67295 SPECIAL TOPICS IN EARLY CHILDHOOD EDUCATION 1-5 Credit Hours**

(Repeatable for credit) (Slashed with ECED 77295) Special topics in early childhood education.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 1-5 lecture

**Grade Mode:** Standard Letter

**ECED 67296 INDIVIDUAL INVESTIGATION IN EARLY CHILDHOOD EDUCATION 1-5 Credit Hours**

(Repeatable for credit) Individual investigation in early childhood education.

**Prerequisite:** Graduate standing; and permission.

**Schedule Type:** Individual Investigation

**Contact Hours:** 1-5 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**ECED 67298 RESEARCH IN EARLY CHILDHOOD EDUCATION 1-15 Credit Hours**

(Repeatable for credit) Research in early childhood education.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Research

**Contact Hours:** 1-15 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**ECED 70093 VARIABLE TITLE WORKSHOP IN EARLY CHILDHOOD EDUCATION 1-5 Credit Hours**

(Repeatable for credit) (Slashed with ECED 40093 and ECED 50093)

**Prerequisite:** Doctoral standing; and special approval.

**Schedule Type:** Workshop

**Contact Hours:** 1-5 other

**Grade Mode:** Satisfactory/Unsatisfactory

**ECED 70101 CONSTRUCTIVIST TEACHING IN EARLY CHILDHOOD CLASSROOMS 3 Credit Hours**

Theorists and researchers with a constructivist orientation will be examined in relationship to teacher beliefs. The course will focus on constructivist practices emphasizing child-sensitive curriculum and teaching practices.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ECED 70102 DEVELOPING A BALANCED LITERACY PROGRAM 3 Credit Hours**

An examination of own teaching practice focusing on assessment strategies to inform decision-making for individual children and evaluation strategies to fine tune a balanced literacy program.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ECED 70112 HUMANITIES FOR CHILDREN 2 Credit Hours**

(Slashed with ECED 60112) Relevance of humanities as applied to education of young children.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**ECED 70113 PRESCHOOL EDUCATION 3 Credit Hours**

(Slashed with ECED 60113) In-depth study of curriculum development in preschool programs.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ECED 70151 SOCIOMORAL ENVIRONMENT IN EARLY CHILDHOOD EDUCATION 3 Credit Hours**

(Slashed with ECED 60151) Children's social and moral development will be explored in relationship to the context of primary classrooms. Children's social problem-solving, friendship-making, guidance strategies and interventions, building and facilitating classroom communities and promoting caring classrooms will be the focus of this course.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ECED 70152 APPLICATION OF SELECTED THEORETICAL PRINCIPLES TO THE DEVELOPMENT OF YOUNG CHILDREN 3 Credit Hours**

(Slashed with ECED 60152) Examination of theories pertaining to child development which have special relevance in understanding and meeting developmental needs of young children. Application of selected theoretical principles to child development.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ECED 70158 RECONCEPTUALIZING EARLY CHILDHOOD CURRICULUM 3 Credit Hours**

(Slashed with ECED 60158) Course examines postmodern understanding of early childhood education curricula in relationship to teaching (instruction-oriented teaching vs. pedagogy-based teaching). Social, historical, legal, political, international and cultural issues that have affected early childhood education curricula practices will be critically examined.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ECED 70163 CONTEMPORARY ISSUES AND TRENDS IN EARLY CHILDHOOD EDUCATION 3 Credit Hours**

(Slashed with ECED 60163) The course is an examination of contemporary issues with young children, families, school communities, and diverse populations detailing the philosophical, social, and political ramifications of the study of children highlighting current research, practices and policies. This course will examine a body of literature (recent seminal works of impact in early childhood), which encompass a few of the pervasive dilemmas and debates shaping the early childhood field in the U.S. today (with a global international backdrop). International perspectives on issues will be liberally juxtaposed with U.S. issues, and overall this course will address how educators have and can structure their practice with various communities to support young children, families and society.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ECED 70167 LANGUAGE AND LITERACY: UNDERSTANDING DEVELOPMENT 3 Credit Hours**

(Slashed with ECED 60167) The development of language in children from birth through age eight with a focus on the process of typical language development and the diversity of multi-cultural language. Topics specifically related to classroom teaching include the assessment of language, delays and disorders and strategies for connecting oral language to literacy in preschool.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ECED 70170 WRITING FOR PUBLICATION AND DISSEMINATION IN EARLY CHILDHOOD EDUCATION 3 Credit Hours**

(Slashed with ECED 60170) The seminar examines publication possibilities within the field of early childhood education. A wide range of writing (e.g., journals, books reviews, training modules-manuals) will be reviewed for topics concerning young children (i.e., education, development, families, care, schools, health, and-or their teachers providers.) This seminar will rely a great deal on student participation for determining topics in support of individual interests, research, teaching practices at the university level, curriculum practices in the early childhood classrooms and settings and more.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Seminar

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ECED 77291 SEMINAR IN EARLY CHILDHOOD EDUCATION 1-4 Credit Hours**

(Repeatable for credit) (Slashed with ECED 67291) Seminar in ECED.

**Prerequisite:** Doctoral standing; and special approval.

**Schedule Type:** Seminar

**Contact Hours:** 1-4 other

**Grade Mode:** Standard Letter

**ECED 77292 PRACTICUM AND INTERNSHIP IN EARLY CHILDHOOD EDUCATION 1-10 Credit Hours**

(Repeatable for credit) (Slashed with ECED 67292) Practicum/ internship in ECED. Students are required to complete Bureau of Criminal Investigation and Identification (BCII) and Federal Bureau of Investigation (FBI) background checks and submit the results to authorized personnel at their assigned school/agency before the first day of the semester in which student teaching/ internship will take place.

**Prerequisite:** Doctoral standing; and special approval.

**Schedule Type:** Practical Experience

**Contact Hours:** 3-30 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**ECED 77295 SPECIAL TOPICS IN EARLY CHILDHOOD EDUCATION 1-5 Credit Hours**

(Repeatable for credit) (Slashed with ECED 67295) Special topics in ECED.

**Prerequisite:** Doctoral standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 1-5 lecture

**Grade Mode:** Standard Letter

**ECED 80169 UNDERSTANDING EMERGENT BILINGUAL AND IMMIGRANT STUDENTS AND THEIR FAMILIES 3 Credit Hours**

(Slashed with ECED 60169) This course is designed to help the general practitioner understand and know foundational concepts about multi-lingual students, immigrants, English Language Learners and their families.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ECED 80171 TEACHING EMERGENT BILINGUAL AND IMMIGRANTS IN THE EARLY YEARS 3 Credit Hours**

(Slashed with ECED 60171) General educators will explore the application of teaching methods and a variety of curriculum approaches for immigrant and bi-literate children, and apply more fully their work with families and communities.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ECED 80291 ADVANCED SEMINAR IN EARLY CHILDHOOD EDUCATION 1-4 Credit Hours**

(Repeatable for credit) Advanced seminar in ECED.

**Prerequisite:** Doctoral standing; and permission.

**Schedule Type:** Seminar

**Contact Hours:** 1-4 other

**Grade Mode:** Standard Letter

**ECED 80295 SPECIAL TOPICS IN EARLY CHILDHOOD EDUCATION 1-5 Credit Hours**

(Repeatable for credit) Special topics in ECED.

**Prerequisite:** Doctoral standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 1-5 lecture

**Grade Mode:** Standard Letter

**ECED 80298 RESEARCH IN EARLY CHILDHOOD EDUCATION 1-15 Credit Hours**

(Repeatable for credit) Research in ECED.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Research

**Contact Hours:** 1-15 other

**Grade Mode:** Standard Letter

## Educational Technology (ETEC)

**ETEC 39525 EDUCATIONAL TECHNOLOGY 3 Credit Hours**

Develops knowledge and skills in designing, implementing, and assessing learning experiences, using various digital tools and resources to support teaching, learning, and research.

**Prerequisite:** CULT 29535.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ETEC 40093 VARIABLE TITLE WORKSHOP IN EDUCATIONAL TECHNOLOGY 1-4 Credit Hours**

(Repeatable for credit) (Slashed with ETEC 50093) Variable topic workshop designed to respond to emerging or specialized needs in educational technology.

**Prerequisite:** None.

**Schedule Type:** Workshop

**Contact Hours:** 1-4 other

**Grade Mode:** Satisfactory/Unsatisfactory

**ETEC 47400 TRENDS IN EDUCATIONAL TECHNOLOGY 3 Credit Hours**

(Slashed with ETEC 57400) Overview of current technologies as they are used in education. Teaches principles and techniques for selecting and using technology for instruction. Focuses on digital technologies that can be used to increase the effectiveness of education.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ETEC 47403 INSTRUCTIONAL DESIGN 3 Credit Hours**

(Slashed with ETEC 57403) Enables students to design and develop instructional systems and materials using a systematic and research- and theory-based instructional design model.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ETEC 47427 TECHNOLOGY AND LEARNING 3 Credit Hours**

(Slashed with ETEC 57427) The effective use of technology for teaching and learning depends on understanding how researchers have created, integrated, and adapted technology integration and adoption models. This course presents an overview of key theories and concepts that have transformed our understanding of educational technology. It relies on a knowledge of the psychological principles of learning. Students without such knowledge should consider taking EPSY 29525 Educational Psychology first.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ETEC 47495 SPECIAL TOPICS: EDUCATIONAL TECHNOLOGY 1-4 Credit Hours**

(Repeatable for credit) Specialized offering in response to emerging or selected program needs in educational technology.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 1-4 lecture

**Grade Mode:** Standard Letter

**ETEC 47496 INDIVIDUAL INVESTIGATION IN EDUCATIONAL TECHNOLOGY 1-3 Credit Hours**

(Repeatable for credit) Directed independent reading and/or research of special interest or need in student's program. Planned with and directed by a faculty member.

**Prerequisite:** Special approval.

**Schedule Type:** Individual Investigation

**Contact Hours:** 3-9 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**ETEC 50093 VARIABLE TITLE WORKSHOP IN EDUCATIONAL TECHNOLOGY 1-4 Credit Hours**

(Repeatable for credit) (Slashed with ETEC 40093) Variable topic workshop designed to respond to emerging or specialized needs in educational technology.

**Prerequisite:** Graduate standing.

**Schedule Type:** Workshop

**Contact Hours:** 1-4 other

**Grade Mode:** Satisfactory/Unsatisfactory

**ETEC 57400 TRENDS IN EDUCATIONAL TECHNOLOGY 3 Credit Hours**

(Slashed with ETEC 47400) Overview of current technologies as they are used in education. Teaches principles and techniques for selecting and using technology for instruction. Focuses on digital technologies that can be used to increase the effectiveness of education.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ETEC 57403 INSTRUCTIONAL DESIGN 3 Credit Hours**

(Slashed with ETEC 47403) Enables students to design and develop instructional systems and materials using a systematic and research- and theory-based instructional design model.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ETEC 57427 TECHNOLOGY AND LEARNING 3 Credit Hours**

(Slashed with ETEC 47427) The effective use of technology for teaching and learning depends on understanding how researchers have created, integrated, and adapted technology integration and adoption models. This course presents an overview of key theories and concepts that have historically transformed our understanding of educational technology. It relies on a knowledge of the psychological principles of learning. Students without such knowledge should consider taking EPSY 65524 Learning Theories, first.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ETEC 60199 THESIS I 2-6 Credit Hours**

(Repeatable for credit) Students electing to complete a thesis to fulfill the requirements for the Master of Education degree must register for at least one semester of Thesis I.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Masters Thesis

**Contact Hours:** 6-18 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**ETEC 60299 THESIS II 2 Credit Hours**

(Repeatable for credit) When 6 credits of Thesis I have been complete, students electing to complete a thesis to fulfill the requirements for the Master of Education degree must continue to register each semester for Thesis II until all degree requirements have been completed.

**Prerequisite:** Graduate standing.

**Schedule Type:** Masters Thesis

**Contact Hours:** 6 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**ETEC 67402 MANAGING SCHOOL TECHNOLOGY CENTERS AND PROGRAMS 3 Credit Hours**

(Slashed with ETEC 77402) Provides skills in planning, organizing, administering and evaluating school-based technology and media centers.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ETEC 67410 SIMULATIONS AND GAMES IN EDUCATION 3 Credit Hours**

(Slashed with ETEC 77410) Introduction to digital simulations and games as educational tools. Students develop proficiency in applying these tools to learning. Surveys research and design principles and introduces game editors for developing simulations and games.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ETEC 67411 DESIGNING VISUALS FOR EDUCATION 3 Credit Hours**

(Slashed with ETEC 77411) Investigates research in perception and cognition and its influence on principles and best practices in educational visual design. Focuses on the design of educational visuals and media in print, video, and computer-based technology.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ETEC 67420 RESEARCH ISSUES IN EDUCATIONAL TECHNOLOGY 3 Credit Hours**

(Slashed with ETEC 77420) Reviews the foundations of the field of Educational Technology as well as the basic theories that underlie its practice. Teaches masters students to read and make use of research in the field and doctoral students to critique research and develop meaningful research questions in the field.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ETEC 67425 MANAGING TECHNOLOGICAL CHANGE 3 Credit Hours**

(Slashed with ETEC 77425) Analyzing organizations and situations to determine the needs for and obstacles to technological change. Development of strategies for technological change. Identifying goals for change projects and basic project management techniques for implementing them.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ETEC 67426 MANAGING SCHOOL TECHNOLOGIES 3 Credit Hours**

(Slashed with ETEC 77426) Specifically for students interested in working in school settings managing computer labs and school servers and networks. Covers managing aspects of computer hardware, software and updates, and networks.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ETEC 67432 DESIGNING MULTIMEDIA FOR EDUCATION 3 Credit Hours**

(Slashed with ETEC 77432) Application of evidence-based instructional methods to the design, development, and evaluation of multimedia learning materials. Research-based guidelines for multimedia learning that influence learning outcomes. Uses various tools to design and develop multimedia projects.

**Prerequisite:** ETEC 57403; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ETEC 67434 EMERGING TECHNOLOGIES FOR EDUCATION 3 Credit Hours**

(Slashed with ETEC 77434) Focuses on the theoretical foundations, design, and development of educational delivery systems employing leading-edge and emergent technologies. Includes presentations and activities that employ the technologies.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ETEC 67435 VIRTUAL AND AUGMENTED REALITY 3 Credit Hours**

(Slashed with ETEC 77435) Virtual augmented reality can help provide engaging educational experiences. This course enables students to understand best practices and core guidelines in these technologies. Design principles and software for developing environments are included.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ETEC 67442 DESIGNING ONLINE AND BLENDED COURSES 3 Credit Hours**

(Slashed with ETEC 77442) Online and blended courses present new challenges in designing instructional experiences for students. Students will analyze course goals and contexts, design and develop effective online educational materials, interactions and discourses, and plan the evaluation of online courses.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ETEC 67444 TEACHING ONLINE AND BLENDED COURSES 3 Credit Hours**

(Slashed with ETEC 77444) Course explores using pedagogical approaches appropriate to online learning, including facilitating synchronous and asynchronous discussions, facilitating embedded assessment, enhancing online interactivity, collaboration and community and incorporating self-directed learning. Students discuss, analyze and use these strategies in online teaching and learning.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ETEC 67445 DESIGNING INSTRUCTIONAL AND PERFORMANCE SOLUTIONS 3 Credit Hours**

(Slashed with ETEC 77445) Develop knowledge of the systematic approach to instructional design, the contexts of application of this approach, and the roles of professionals in this field in adapting and applying the process in a flexible and innovative manner, especially to large-scale projects.

**Prerequisite:** ETEC 57403; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ETEC 67449 RESEARCH IN ONLINE AND BLENDED LEARNING 3 Credit Hours**

(Slashed with ETEC 77449) Course reviews current research issues in online teaching and learning and explores potential new areas of research. Students engage in guided inquiry to identify, understand, apply, and critique current research. Students participate in a constructive online learning environment.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ETEC 67491 SEMINAR: EDUCATIONAL TECHNOLOGY 1-4 Credit Hours**

(Repeatable for credit) (Slashed with ETEC 77491) Variable topic seminar for advanced study of specialized areas and topics. Normally designed around research and theory applied to practice.

**Prerequisite:** Graduate standing.

**Schedule Type:** Seminar

**Contact Hours:** 1-4 other

**Grade Mode:** Standard Letter

**ETEC 67492 PRACTICUM AND PORTFOLIO 3 Credit Hours**

Apply knowledge and skills related to the design, development, implementation, management, and evaluation of educational technologies through practical field experience in a school setting or an environment where educational technology services and programs are being used. Create a standards-based online portfolio to demonstrate professional competence and growth.

**Prerequisite:** Graduate standing.

**Schedule Type:** Practical Experience

**Contact Hours:** 10 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**ETEC 67495 SPECIAL TOPICS IN EDUCATIONAL TECHNOLOGY 1-4 Credit Hours**

(Repeatable for credit) Specialized offering in response to emerging or selected program needs in educational technology.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 1-4 lecture

**Grade Mode:** Standard Letter

**ETEC 67496 INDIVIDUAL INVESTIGATION IN EDUCATIONAL TECHNOLOGY 1-3 Credit Hours**

(Repeatable for credit) (Slashed with ETEC 77496) Directed independent reading and/or research of special interest or need in student's program. Planned with and directed by a graduate faculty member.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Individual Investigation

**Contact Hours:** 3-9 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP



**ETEC 67498 INDEPENDENT RESEARCH IN EDUCATIONAL TECHNOLOGY 1-5 Credit Hours**

(Repeatable for credit) (Slashed with ETEC 77498) Students pursue an individualized research project on a specialized topic with approval and under direction of instructor.

**Prerequisite:** Graduate standing.

**Schedule Type:** Research

**Contact Hours:** 3-15 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**ETEC 77402 MANAGING SCHOOL TECHNOLOGY CENTERS AND PROGRAMS 3 Credit Hours**

(Slashed with ETEC 67402) Provides skills in planning, organizing, administering and evaluating school-based technology and media centers.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ETEC 77410 SIMULATIONS AND GAMES IN EDUCATION 3 Credit Hours**

Introduction to digital simulations and games as educational tools. Students develop proficiency in applying these tools to learning. Surveys research and design principles and introduces game editors for developing simulations and games.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ETEC 77411 DESIGNING VISUALS FOR EDUCATION 3 Credit Hours**

(Slashed with ETEC 67411) Investigates research in perception and cognition and its influence on principles and best practices in educational visual design. Focuses on the design of educational visuals and media in print, video, and computer-based technology.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ETEC 77420 RESEARCH ISSUES IN EDUCATIONAL TECHNOLOGY 3 Credit Hours**

Reviews the foundations of the field of Educational Technology as well as the basic theories that underlie its practice. Teaches masters students to read and make use of research in the field and doctoral students to critique research and develop meaningful research questions in the field.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ETEC 77425 MANAGING TECHNOLOGICAL CHANGE 3 Credit Hours**

(Slashed with ETEC 67425) Analyzing organizations and situations to determine the needs for and obstacles to technological change. Development of strategies for technological change. Identifying goals for change projects and basic project management techniques for implementing them.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ETEC 77426 MANAGING SCHOOL TECHNOLOGIES 3 Credit Hours**

(Slashed with ETEC 67426) Specifically for students interested in working in school settings managing computer labs and school servers and networks. Covers managing aspects of computer hardware, software and updates, and networks.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ETEC 77432 DESIGNING MULTIMEDIA FOR EDUCATION 3 Credit Hours**

(Slashed with ETEC 67432) Application of evidence-based instructional methods to the design, development, and evaluation of multimedia learning materials. Research-based guidelines for multimedia learning that influence learning outcomes. Uses various tools to design and develop multimedia projects.

**Prerequisite:** ETEC 57403; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ETEC 77434 EMERGING TECHNOLOGIES FOR EDUCATION 3 Credit Hours**

(Slashed with ETEC 67434) Focuses on the theoretical foundations, design, and development of educational delivery systems employing leading-edge and emergent technologies. Includes presentations and activities that employ the technologies.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ETEC 77435 VIRTUAL AND AUGMENTED REALITY 3 Credit Hours**

(Slashed with ETEC 67435) Virtual augmented reality can help provide engaging educational experiences. This course enables students to understand best practices and core guidelines in these technologies. Design principles and software for developing environments are included.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ETEC 77442 DESIGNING ONLINE AND BLENDED COURSES 3 Credit Hours**

(Slashed with ETEC 67442) Online and blended courses present new challenges in designing instructional experiences for students. Students will analyze course goals and contexts, design and develop effective online educational materials, interactions and discourses, and plan the evaluation of online courses.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ETEC 77444 TEACHING ONLINE AND BLENDED COURSES 3 Credit Hours**

(Slashed with ETEC 67444) Course explores using pedagogical approaches appropriate to online learning, including facilitating synchronous and asynchronous discussions, facilitating embedded assessment, enhancing online interactivity, collaboration and community and incorporating self-directed learning. Students discuss, analyze and use these strategies in online teaching and learning.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ETEC 77445 DESIGNING INSTRUCTIONAL AND PERFORMANCE SOLUTIONS 3 Credit Hours**

(Slashed with ETEC 67445) Develop knowledge of the systematic approach to instructional design, the contexts of application of this approach, and the roles of professionals in this field in adapting and applying the process in a flexible and innovative manner, especially to large-scale projects.

**Prerequisite:** ETEC 57403; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ETEC 77449 RESEARCH IN ONLINE AND BLENDED LEARNING 3 Credit Hours**

(Slashed with ETEC 67449) Course reviews current research issues in online teaching and learning and explores potential new areas of research. Students engage in guided inquiry to identify, understand, apply, and critique current research. Students participate in a constructive online learning environment.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ETEC 77491 SEMINAR: EDUCATIONAL TECHNOLOGY 1-4 Credit Hours**

(Repeatable for credit) (Slashed with ETEC 67491) Variable topic seminar for advanced study of specialized areas and topics. Normally designed around research and theory applied to practice.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Seminar

**Contact Hours:** 1-4 other

**Grade Mode:** Standard Letter

**ETEC 77492 ADVANCED PRACTICUM AND INTERNSHIP IN EDUCATIONAL TECHNOLOGY 1-10 Credit Hours**

Supervised program requiring application of theory to practice in the use of instructional technology directed by a graduate faculty member and a practitioner in the field. Students are required to complete Bureau of Criminal Investigation and Identification (BCII) and Federal Bureau of Investigation (FBI) background checks and submit the results to authorized personnel at their assigned school-agency before the first day of the semester in which internship will take place.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Practical Experience

**Contact Hours:** 3-33 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**ETEC 77495 SPECIAL TOPICS IN EDUCATIONAL TECHNOLOGY 1-4 Credit Hours**

(Slashed with ETEC 67495) Specialized offering in response to emerging or selected program needs in educational technology.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 1-4 lecture

**Grade Mode:** Standard Letter

**ETEC 77496 INDIVIDUAL INVESTIGATION IN EDUCATIONAL TECHNOLOGY 1-3 Credit Hours**

(Repeatable for credit) (Slashed with ETEC 67496) Directed independent reading and/or research of special interest or need in student's program. Planned with and directed by a graduate faculty member.

**Prerequisite:** Doctoral standing; and special approval.

**Schedule Type:** Individual Investigation

**Contact Hours:** 3-9 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**ETEC 77498 INDEPENDENT RESEARCH IN EDUCATIONAL TECHNOLOGY 1-5 Credit Hours**

(Repeatable for credit) (Slashed with ETEC 67498) Students pursue an individualized research project on a specialized topic with approval and under direction of instructor.

**Prerequisite:** Doctoral standing; and special approval.

**Schedule Type:** Research

**Contact Hours:** 3-15 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**ETEC 87450 LEARNING WITH EDUCATIONAL TECHNOLOGIES 3 Credit Hours**

Provides an overall introduction to research and practice in educational technology at the doctoral level. Includes examination of principles and examples of the effective application of technology to educational settings as well as approaches to research in the field.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

## Middle Childhood Education (MCED)

**MCED 20000 LEARNING AND EXPERIENCE IN MIDDLE CHILDHOOD EDUCATION 3 Credit Hours**

This course introduces Middle Childhood Education (MCED) teacher candidates to the cultural, community, social, emotional, cognitive, physical and moral development of early adolescents. It offers MCED candidates the opportunity to immerse themselves in a grades 4-9 clinical experience while exploring the experiences of early adolescence.

**Prerequisite:** CULT 29535.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter-IP

**MCED 30001 TEACHING MATHEMATICS IN MIDDLE CHILDHOOD I 3 Credit Hours**

Examine issues and trends in mathematics and mathematics education. Theories of the teaching and learning of mathematics will be addressed within the context of problem solving, communications, reasoning and connections with other disciplines.

**Prerequisite:** EPSY 29525; and MATH 14001 and MATH 14002; and admission to advanced study.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MCED 30002 INTEGRATED SOCIAL STUDIES AND SCIENCE IN MIDDLE CHILDHOOD 3 Credit Hours**

Introductory methods course integrating social studies and science. Emphasis on principles of teaching and learning as applied to teaching to social issues and problems appropriate for middle childhood students.

**Prerequisite:** Admission to advanced study.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MCED 31000 TEACHING AND LEARNING IN MIDDLE CHILDHOOD 3 Credit Hours**

This course emphasizes theories of learning and teaching and their application to teaching in middle childhood classrooms with a diversity of learners. Major class topics include lesson planning, teaching strategies, assessment, classroom management, and effective classroom instructions. In a concurrent clinical field experience, teacher candidates will apply teaching methods in intermediate-middle school classrooms. Students are required to complete Bureau of Criminal Investigation and Identification (BCII) and Federal Bureau of Investigation (FBI) background checks and submit the results to authorized personnel at their assigned school before the first day of the semester in which student teaching internship will take place.

**Prerequisite:** Admission to advanced study; and middle childhood education major.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter-IP

**MCED 40000 TEACHING AND LEARNING IN MIDDLE CHILDHOOD 2 Credit Hours**

This course is the third of the four required seminars in middle childhood. Emphasis on theories of learning and classroom management and their application to teaching in classrooms with diverse learners.

**Prerequisite:** HDFS 24013; and admission to advanced study.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**MCED 40001 TEACHING MATHEMATICS IN MIDDLE CHILDHOOD II 3 Credit Hours**

To develop knowledge of the theories, materials and methods used to teach mathematics in the contemporary classroom for grades 4-9 and develop skill in their use.

**Prerequisite:** MCED 30001; and admission to advanced study.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MCED 40002 TEACHING SCIENCE IN THE MIDDLE CHILDHOOD II 3 Credit Hours**

This course is designed to provide pre-service teachers with meaningful and practical learning experiences that will prepare them to create effective science learning environments for grade 4-9 students. This course includes 40 field clinical hours. Students are required to complete Bureau of Criminal Investigation and Identification (BCII) and Federal Bureau of Investigation (FBI) background checks and submit the results to authorized personnel at their assigned school-agency before the first day of the semester in which clinical hours will take place.

**Prerequisite:** MCED 30002; and admission to advanced study.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MCED 40003 TEACHING SOCIAL STUDIES IN MIDDLE CHILDHOOD II 3 Credit Hours**

Advanced methods course. Examines the purpose of citizenship education and understanding the role of history and the social sciences. Applying the principles of powerful teaching. Includes a major field experience at the student teaching site. Students are required to complete Bureau of Criminal Investigation and Identification (BCII) and Federal Bureau of Investigation (FBI) background checks and submit the results to authorized personnel at their assigned school/agency before the first day of the semester in which student teaching/ internship will take place.

**Prerequisite:** MCED 30002; and admission to advanced study.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MCED 40005 EFFECTIVE USE OF PHONICS IN READING 3 Credit Hours**

The influence of theoretical perspectives on word identification instruction, an examination of the role of phonics in reading and writing strategies for effective phonics instruction and assessment.

**Prerequisite:** Admission to advanced study.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MCED 40006 READING AND WRITING IN MIDDLE CHILDHOOD (WIC) 6 Credit Hours**

Understanding of literacy learning in the middle childhood (classrooms grades 4-9) with emphasis on the development of reading and writing processes, strategies for text learning, literacy in electronic environments, authentic assessment and teaching children who struggle as readers.

**Prerequisite:** Admission to advanced study.

**Schedule Type:** Lecture

**Contact Hours:** 6 lecture

**Grade Mode:** Standard Letter

**Attributes:** Writing Intensive Course

**MCED 40007 TEACHING READING WITH LITERATURE IN MIDDLE CHILDHOOD 3 Credit Hours**

The study of the teaching of reading with literature with middle childhood students within an integrated language arts approach in a comprehensive literature program.

**Prerequisite:** MCED 40006; and admission to advanced study.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MCED 40045 TEACHING MATHEMATICS IN THE INTERMEDIATE YEARS, GRADES 4-5 3 Credit Hours**

To develop knowledge of the theories, materials and methods used to teach mathematics in the contemporary classroom for grades 4-5 and develop skill in their use.

**Prerequisite:** ECED 40147 with a minimum grade of C.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MCED 41000 CURRICULUM AND ORGANIZATION IN MIDDLE CHILDHOOD 3 Credit Hours**

This course is designed to enhance knowledge, skills, and dispositions about curriculum history and organization of middle level schools (grades 4-9) that is developmentally responsive to early adolescents, and promotes student achievement and equity. Additionally, this course is also designed to extend knowledge, skills, techniques, and professional dispositions as related to middle school students' experiences, and differentiate curriculum and assessment for diverse learners. Students are required to complete Bureau of Criminal Investigation and Identification (BCII) and Federal Bureau of Investigation (FBI) background checks and submit the results to authorized personnel at their assigned school before the first day of the semester in which student teaching internship will take place.

**Prerequisite:** Admission to advanced study; and MCED 31000; and middle childhood education major.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter-IP

**MCED 42392 STUDENT TEACHING IN MIDDLE CHILDHOOD (ELR) 9 Credit Hours**

(Slashed with MCED 52392) Full-time student teaching for sixteen weeks in two selected concentrations (mathematics, science, language arts, social studies) and reading in grades 4-5 or grades 6-7-8. Students are required to complete Bureau of Criminal Investigation and Identification (BCII) and Federal Bureau of Investigation (FBI) background checks and submit the results to authorized personnel at their assigned school-agency before the first day of the semester in which student teaching internship will take place.

**Prerequisite:** Admission to advanced study; and Official valid certification of Child Safety Training, approved Basic Life Support and ALICE Training must be presented to the campus office of clinical experience or designated faculty/staff at Regional campuses as prerequisite for student teaching; and MCED 41000 and MCED 40007.

**Corequisite:** MCED 49525.

**Schedule Type:** Practical Experience

**Contact Hours:** 27 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**Attributes:** Experiential Learning Requirement

**MCED 46645 CRITICAL INQUIRY AND INTEGRATION: SCIENCE AND SOCIAL STUDIES, GRADE 4 3 Credit Hours**

Introduces students to fourth grade content using an interdisciplinary, inquiry approach to teaching and learning in science and social studies.

**Prerequisite:** Special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MCED 47745 CRITICAL INQUIRY AND INTEGRATION: SCIENCE AND SOCIAL STUDIES, GRADE 5 3 Credit Hours**

Engages students in the use and development of pedagogical content knowledge for teaching grade 5 using an interdisciplinary, inquiry approach to teaching and learning in science and social studies.

**Prerequisite:** Special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MCED 49525 INQUIRY INTO PROFESSIONAL PRACTICE:MIDDLE CHILDHOOD 3 Credit Hours**

A seminar linked to student teaching with an emphasis on action research as professional development; completion of professional portfolios; professional ethics; and legal, medical and ethical issues in teaching.

**Prerequisite:** MCED 41000 and MCED 40007.

**Corequisite:** MCED 42392.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MCED 50002 TEACHING SCIENCE IN MIDDLE CHILDHOOD II 3 Credit Hours**

(Slashed with MCED 40002) This course is designed to provide pre-service teachers with meaningful and practical learning experiences that will prepare them to create effective science learning environments for grade 4-9 students. This course includes 40 field clinical hours. Students are required to complete Bureau of Criminal Investigation and Identification (BCII) and Federal Bureau of Investigation (FBI) background checks and submit the results to authorized personnel at their assigned school-agency before the first day of the semester in which clinical hours will take place.

**Prerequisite:** MCED 30002; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MCED 50003 TEACHING SOCIAL STUDIES IN MIDDLE CHILDHOOD II 3 Credit Hours**

Advanced methods course. Examines the purpose of citizenship education and understanding the role of history and the social sciences. Applying the principles of powerful teaching. Includes a major field experience at the student teaching site. Students are required to complete Bureau of Criminal Investigation and Identification (BCII) and Federal Bureau of Investigation (FBI) background checks and submit the results to authorized personnel at their assigned school/agency before the first day of the semester in which student teaching/internship will take place.

**Prerequisite:** MCED 30002; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MCED 50005 EFFECTIVE USE OF PHONICS IN READING 3 Credit Hours**

The influence of theoretical perspectives on word identification instruction, an examination of the role of phonics in reading and writing, strategies for effective phonics instruction and assessment.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MCED 50006 READING AND WRITING IN MIDDLE CHILDHOOD 6 Credit Hours**

Understanding of literacy learning in the middle childhood (classrooms grades 4-9) with emphasis on the development of reading and writing processes, strategies for text learning, literacy in electronic environments, authentic assessment and teaching children who struggle as readers.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 6 lecture

**Grade Mode:** Standard Letter

**MCED 50007 TEACHING READING WITH LITERATURE IN MIDDLE CHILDHOOD 3 Credit Hours**

The study of the teaching of reading with literature with middle childhood students within an integrated language arts approach in a comprehensive literature program.

**Prerequisite:** MCED 50006; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MCED 50045 TEACHING MATHEMATICS IN THE INTERMEDIATE YEARS, GRADES 4-5 3 Credit Hours**

To develop knowledge of the theories, materials and methods used to teach mathematics in the contemporary classroom for grades 4-5 and develop skill in their use.

**Prerequisite:** ECED 40147 with a minimum C grade; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MCED 52392 STUDENT TEACHING IN MIDDLE CHILDHOOD 9 Credit Hours**

Full-time student teaching for sixteen weeks on an interdisciplinary team in two selected concentrations (mathematics, language arts, social studies, science) and reading in grades 4-9. Students are required to complete Bureau of Criminal Investigation and Identification (BCII) and Federal Bureau of Investigation (FBI) background checks and submit the results to authorized personnel at their assigned school-agency before the first day of the semester in which student teaching internship will take place.

**Prerequisite:** Official valid certification of child safety training, approved basic life support and ALICE training must be presented to the campus office of clinical experience or designated faculty-staff at Regional campuses as prerequisite for student teaching; and graduate standing.

**Corequisite:** MCED 59525.

**Schedule Type:** Practical Experience

**Contact Hours:** 27 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**MCED 56645 CRITICAL INQUIRY AND INTEGRATION: SCIENCE AND SOCIAL STUDIES, GRADE 4 3 Credit Hours**

Introduces students to fourth grade content using an interdisciplinary, inquiry approach to teaching and learning in science and social studies.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MCED 57745 CRITICAL INQUIRY AND INTEGRATION: SCIENCE AND SOCIAL STUDIES, GRADE 5 3 Credit Hours**

Engages students in the use and development of pedagogical content knowledge for teaching grade 5 using an interdisciplinary, inquiry approach to teaching and learning in science and social studies.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MCED 59525 INQUIRY INTO PROFESSIONAL PRACTICE MIDDLE CHILDHOOD 3 Credit Hours**

A seminar linked to student teaching with an emphasis on action research as professional development, completion of professional portfolios, professional ethics and legal, medical and ethical issues in teaching.

**Prerequisite:** CI 67107 and MCED 50007 with a minimum C grade; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MCED 60115 SCIENCE TECHNOLOGY ENGINEERING AND MATH FOUNDATIONS FOR EARLY AND MIDDLE CHILDHOOD EDUCATION 3 Credit Hours**

(Cross-listed with ECED 60115) This course introduces early and middle childhood educators to STEM (Science, Technology, Engineering, Mathematics) for students in K-6 classrooms. This includes a foundation and overview of the what, how, and why STEM is included in K-6 classrooms. As a foundation course, students will gain exposure to integrating the STEM disciplines, assessment of mathematics and science in STEM, and aspects of developmentally appropriate STEM for early and middle childhood settings.

**Prerequisite:** ECED 50404 and ECED 50304 and ECED 50303; and graduate standing.

**Pre/corequisite:** ECED 50203.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

## Physical Activity, Wellness and Sport (PWS)

**PWS 10020 DEVELOPMENT AND CONDITIONING 1 Credit Hour**

Introduction to the principles of physical training. Practical application of these principles through a variety of activities.

**Prerequisite:** None.

**Schedule Type:** Laboratory

**Contact Hours:** 2 lab

**Grade Mode:** Standard Letter

**PWS 10035 LIFETIME FITNESS 2 Credit Hours**

The role of exercise in enhancing physical fitness. Lectures on principles of planning scientifically sound exercise programs. Laboratory experiences in personal fitness evaluation and exercise routines.

**Prerequisite:** None.

**Schedule Type:** Laboratory, Lecture, Combined Lecture and Lab

**Contact Hours:** 1 lecture, 2 lab

**Grade Mode:** Standard Letter



**PWS 10036 FITNESS WALKING 1 Credit Hour**

Introduction to Fitness Walking as a lifetime physical activity through personal cardiovascular fitness.

**Prerequisite:** None.

**Schedule Type:** Laboratory

**Contact Hours:** 2 lab

**Grade Mode:** Standard Letter

**PWS 10095 SELECTED TOPICS: PHYSICAL EDUCATION ACTIVITIES 1-2 Credit Hours**

(Repeatable for credit) Selected and varied topics of relevance in physical education basic instruction.

**Prerequisite:** None.

**Schedule Type:** Laboratory

**Contact Hours:** 2-4 lab

**Grade Mode:** Standard Letter

**PWS 10101 SCUBA DIVING 1 Credit Hour**

Designed to make students a comfortable and qualified diver, capable of conducting recreational dives to shallow depths and deep water diving. Could lead to certification as a PADI open water diver.

**Prerequisite:** None.

**Schedule Type:** Laboratory

**Contact Hours:** 2 lab

**Grade Mode:** Standard Letter

**PWS 10125 BASKETBALL 1 Credit Hour**

The course is designed to give students a basic understanding of how to play the game of basketball through active participation. Students are expected to learn and be able to demonstrate the skills and strategies of the game through various practice and competitive activities. Material is presented through class instruction and handouts.

**Prerequisite:** None.

**Schedule Type:** Laboratory

**Contact Hours:** 2 lab

**Grade Mode:** Standard Letter

**PWS 10204 BADMINTON 1 Credit Hour**

Instruction in the skills and techniques of the game of Badminton

**Prerequisite:** None.

**Schedule Type:** Laboratory

**Contact Hours:** 2 lab

**Grade Mode:** Standard Letter

**PWS 10304 BOWLING 1 Credit Hour**

**Prerequisite:** None.

**Schedule Type:** Laboratory

**Contact Hours:** 2 lab

**Grade Mode:** Standard Letter

**PWS 10305 BILLIARDS 1 Credit Hour**

Skills, technique, strategy, game knowledge as introduction to billiards (pool), a 'cue' sport; rules and gaming for variations of pocket billiards; practice and class tournament play.

**Prerequisite:** None.

**Schedule Type:** Laboratory

**Contact Hours:** 2 lab

**Grade Mode:** Standard Letter

**PWS 10306 JOGGING 1 Credit Hour**

This course is designed to enhance cardiovascular fitness through jogging and or running. The course will focus on a mixture of training techniques including light jogging and interval type workouts. This course will also include supplemental exercises such as core strengthening and stretching. Students will perform basic calculations to determine target heart rate zones. Students will establish fitness goals and select appropriate activities to attain these goals. Pre and Post assessments will allow students to monitor progress towards their fitness goals.

**Prerequisite:** None.

**Schedule Type:** Laboratory

**Contact Hours:** 2 lab

**Grade Mode:** Standard Letter

**PWS 10325 SOCCER 1 Credit Hour**

(Repeatable for credit)

**Prerequisite:** None.

**Schedule Type:** Laboratory

**Contact Hours:** 2 lab

**Grade Mode:** Standard Letter

**PWS 10403 BEGINNING BALLROOM DANCE 1 Credit Hour**

This course is designed for the beginning social dance to learn how to partner dance in a recreational setting. Dances include: Foxtrot, Rumba, Meringue, Swing, Cha Cha.

**Prerequisite:** None.

**Schedule Type:** Laboratory

**Contact Hours:** 2 lab

**Grade Mode:** Standard Letter

**PWS 10413 LATIN SOCIAL DANCE 1 Credit Hour**

Presentation of the DVIDA bronze syllabus for Latin dances. Introduction of Latin rhythm dances, which will include the Merengue, Salsa, Rumba, Cha Cha and Samba. Includes proper technique, rhythm of the dance and approximately 10-15 figures for each dance.

**Prerequisite:** None.

**Schedule Type:** Laboratory

**Contact Hours:** 2 lab

**Grade Mode:** Standard Letter

**PWS 10504 SAND VOLLEYBALL 1 Credit Hour**

Basic instruction in Volleyball skills and Sand Volleyball game strategies.

**Prerequisite:** None.

**Schedule Type:** Laboratory

**Contact Hours:** 2 lab

**Grade Mode:** Standard Letter

**PWS 10505 VOLLEYBALL 1 Credit Hour**

Introduction to the sport of Volleyball through instruction in individual and team skills, team building and game play.

**Prerequisite:** None.

**Schedule Type:** Laboratory

**Contact Hours:** 2 lab

**Grade Mode:** Standard Letter

**PWS 10604 BEGINNING GOLF 1 Credit Hour**

The student will have the opportunity to develop basic golf skills through lectures, demonstration, drills and game play. The student will also gain knowledge of golf etiquette and other areas as related to the game of golf.

**Prerequisite:** None.

**Schedule Type:** Laboratory

**Contact Hours:** 2 lab

**Grade Mode:** Standard Letter

**PWS 10704 INTERMEDIATE GOLF 1 Credit Hour**

Learn mechanics and techniques of the full golf swing, pitching, chipping, bunker play and putting. Learn to play better by playing rounds of golf. Learn the basic rules of golf and proper golf etiquette.

**Prerequisite:** PWS 10604.

**Schedule Type:** Laboratory

**Contact Hours:** 2 lab

**Grade Mode:** Standard Letter

**PWS 10904 TENNIS 1 Credit Hour**

You will be exposed to and utilize basic tennis skills, terms, and principles, with an emphasis on skill development and integration of playing tactics and strategies during match play.

**Prerequisite:** None.

**Schedule Type:** Laboratory

**Contact Hours:** 2 lab

**Grade Mode:** Standard Letter

**PWS 10906 RACQUETBALL 1 Credit Hour**

Instruction in the skills, techniques and strategies of the game of Racquetball.

**Prerequisite:** None.

**Schedule Type:** Laboratory

**Contact Hours:** 2 lab

**Grade Mode:** Standard Letter

**PWS 11126 FLAG FOOTBALL I 1 Credit Hour**

This course is designed to give the students an opportunity to review and practice the basic fundamental skills relative to the game of flag football. Students are expected to be able to demonstrate the skills and strategies of the game through various practice and competitive activities.

**Prerequisite:** None.

**Schedule Type:** Laboratory

**Contact Hours:** 2 lab

**Grade Mode:** Standard Letter

**PWS 11325 ADVANCED ICE HOCKEY 1 Credit Hour**

To build on the basic hockey fundamentals, leading to advanced team play and game situations providing deeper insight into the game of hockey.

**Prerequisite:** None.

**Schedule Type:** Laboratory

**Contact Hours:** 2 lab

**Grade Mode:** Standard Letter

**PWS 11327 KETTLEBELLS 1 Credit Hour**

A vigorous introductory physical conditioning course primarily utilizing kettlebells. Exercises designed to enhance strength, power, endurance, and agility will be emphasized. Introductory approach to kettlebell techniques and kettlebell program development.

**Prerequisite:** None.

**Schedule Type:** Laboratory

**Contact Hours:** 2 lab

**Grade Mode:** Standard Letter

**PWS 11425 VARSITY SPORTS 1 Credit Hour**

(Repeatable for credit) Designed to focus on advanced varsity sport skill development, to promote techniques and strategies to perform at a high level of competition, and to foster ethical values, sportsmanship and responsible citizenship through practices and game competitions. Designed for the student athlete who meets NCAA eligibility requirements.

**Prerequisite:** Special approval.

**Schedule Type:** Laboratory

**Contact Hours:** 2 lab

**Grade Mode:** Satisfactory/Unsatisfactory

**PWS 11426 VARSITY SPORT TRAINING AND CONDITIONING 1 Credit Hour**

(Repeatable for credit) Designed for sport specific training both in and out of season to produce highly skilled student-athletes through structured programs for immediate performance enhancement and injury prevention and to endure practice and competition. Designed for the student athlete who meets NCAA eligibility requirements.

**Prerequisite:** Special approval.

**Schedule Type:** Laboratory

**Contact Hours:** 2 lab

**Grade Mode:** Satisfactory/Unsatisfactory

**PWS 11435 SPORTS CONDITIONING 1 Credit Hour**

This course will cover methods and techniques that are used to safely and effectively enhance an individual's athletic performance by increasing speed, strength, endurance, agility and flexibility. This course will cover a variety of training principles, training methods, basic components of fitness and the physiological factors and benefits of exercise to promote a healthy lifestyle. This course is part theory and part practical application.

**Prerequisite:** None.

**Schedule Type:** Laboratory

**Contact Hours:** 2 lab

**Grade Mode:** Standard Letter

**PWS 11604 BEGINNING KARATE 1 Credit Hour**

A karate course designed for students with little or no martial arts or karate experience. This course will involve the training in the philosophy, principles, and techniques of Karate for self-defense, improvement of overall fitness and to give a greater understanding of the art and themselves.

**Prerequisite:** None.

**Schedule Type:** Laboratory

**Contact Hours:** 2 lab

**Grade Mode:** Standard Letter

**PWS 11605 INTERMEDIATE KARATE 1 Credit Hour**

Continuation of the perfection of basic karate techniques with the main emphasis on kumite (fighting).

**Prerequisite:** PWS 11604.

**Schedule Type:** Laboratory

**Contact Hours:** 2 lab

**Grade Mode:** Standard Letter

**PWS 11633 JU JITSU 1 Credit Hour**

Presentation of Ju-Jitsu and Judo techniques for use in self-defense. Includes falling, throwing, grappling, bars, locks, strikes, kicks and defends against various weapons.

**Prerequisite:** None.

**Schedule Type:** Laboratory

**Contact Hours:** 2 lab

**Grade Mode:** Standard Letter

**PWS 11634 SELF-DEFENSE 1 Credit Hour**

A self-defense course designed for students with little or no martial arts or self-defense background. Physical, verbal, and mental defensive techniques, tactics, and strategies are taught to prepare students for any potentially dangerous situation they may encounter. The course will also improve the student's physical and mental fitness.

**Prerequisite:** None.

**Schedule Type:** Laboratory

**Contact Hours:** 2 lab

**Grade Mode:** Standard Letter

**PWS 11663 BEGINNING YOGA 1 Credit Hour**

Overview course in yoga, an integrated study of health. Involves the investigation and practice of breathing techniques (pranayama), hatha yoga postures (asana), meditation and relaxation. Also unifies the mind, body and spirit.

**Prerequisite:** None.

**Schedule Type:** Laboratory

**Contact Hours:** 2 lab

**Grade Mode:** Standard Letter

**PWS 11664 PILATES 1 Credit Hour**

Pilates is a form of fitness endeavors which unite the rhythmic performances and strength with the conditioning principles of the movement sciences.

**Prerequisite:** None.

**Schedule Type:** Laboratory

**Contact Hours:** 2 lab

**Grade Mode:** Standard Letter

**PWS 11665 ZUMBA 1 Credit Hour**

Zumba® is a fitness program that fuses hypnotic Latin rhythms and easy-to-follow moves and mixes body sculpting movements with dance steps.

**Prerequisite:** None.

**Schedule Type:** Laboratory

**Contact Hours:** 2 lab

**Grade Mode:** Standard Letter

**PWS 11666 BEGINNING SPINNING 1 Credit Hour**

The Spinning program is based on two major components: health and fitness. Each of these parts is also related to the concept of mind (the health component) and body (the fitness component), and the overall program design is intended as more than a fitness regimen. It encourages Spinning participants to shift and broaden their perspectives by exposing them to new ideas and a variety of training styles and Energy Zones.

**Prerequisite:** None.

**Schedule Type:** Laboratory

**Contact Hours:** 2 lab

**Grade Mode:** Standard Letter

**PWS 11667 BOOT CAMP I 1 Credit Hour**

This course is designed to acquaint students with an exercise program using calisthenics, resistance training, running, and agility drills. The course will focus on increasing physical fitness, including cardiovascular efficiency, muscular strength, and flexibility. Students will also learn the fundamental principles of physical fitness and their effect on lifelong health and fitness.

**Prerequisite:** None.

**Schedule Type:** Laboratory

**Contact Hours:** 2 lab

**Grade Mode:** Standard Letter

**PWS 11673 INTERMEDIATE YOGA 1 Credit Hour**

Expansion of Yoga skills, building on knowledge base from Beginning Yoga. Students will explore movement components of anatomy, as related to yoga asanas and understand relationship of asanas to anatomy, creating movement and space.

**Prerequisite:** PWS 11663.

**Schedule Type:** Laboratory

**Contact Hours:** 2 lab

**Grade Mode:** Standard Letter

**PWS 11674 INTERMEDIATE PILATES 1 Credit Hour**

Intermediate Pilates reviews the fundamentals of the beginner class while moving on to the more challenging exercises and repertoire. Students will review and practice correct technique and form for strength, breathing, fluidity, and endurance for mat Pilates. This class is designed for experienced Pilates students.

**Prerequisite:** PWS 11664.

**Schedule Type:** Laboratory

**Contact Hours:** 2 lab

**Grade Mode:** Standard Letter

**PWS 11675 ZUMBA TONING 1 Credit Hour**

Zumba® is a fitness program that fuses hypnotic Latin and International rhythms with easy-to-follow moves and body sculpting movements to create a dynamic workout. The Zumba Toning® program uses hand held weights to enhance rhythm and tone the muscles, specifically arms, thighs, and abdomen. Zumba Toning is an ideal way to sculpt the body.

**Prerequisite:** None.

**Schedule Type:** Laboratory

**Contact Hours:** 2 lab

**Grade Mode:** Standard Letter

**PWS 11684 BALL PILATES 1 Credit Hour**

Ball Pilates, 'Pilates on an Exercise Ball' is very similar to other Pilates classes in that it incorporates many mat and equipment-based exercises. Adding the ball increases your mind-body awareness, core strength, balance and flexibility as you perform the work on an unstable base of support.

**Prerequisite:** None.

**Schedule Type:** Laboratory

**Contact Hours:** 2 lab

**Grade Mode:** Standard Letter

**PWS 11904 BEGINNING ICE SKATING 1 Credit Hour**

This course will give the beginner an introduction to the basic skills of ice skating with a focus on safe technique and the development of the basic skills of ice skating. Students will learn the fundamentals of balance, movement and safety on the ice.

**Prerequisite:** None.

**Schedule Type:** Laboratory

**Contact Hours:** 2 lab

**Grade Mode:** Standard Letter

**PWS 12004 BASIC FIGURE SKATING 1 Credit Hour**

This course will give the intermediate skater an introduction to the disciplines of figure skating and basic figure skating terminology. Students will learn figure skating fundamentals and how to use previously developed skills to achieve proficiency in more difficult skills.

**Prerequisite:** PWS 11904.

**Schedule Type:** Laboratory

**Contact Hours:** 2 lab

**Grade Mode:** Standard Letter

**PWS 12204 BEGINNING BROOMBALL 1 Credit Hour**

Broomball is a recreational ice game played in an ice rink. Skills, tactics and plays are similar to those used in ice hockey.

**Prerequisite:** None.

**Schedule Type:** Laboratory

**Contact Hours:** 2 lab

**Grade Mode:** Standard Letter

**PWS 12324 WEIGHT TRAINING 1 Credit Hour**

This course is designed to teach students the correct technique in lifting with machines, free weights and body weight in a safe and effective manner. Students learn scientific methods (macrocycle, mesocycle and microcycle) on how to correctly design a resistance training workout based around desired goals of strength, endurance, hypertrophy, power and speed. Students will be tested on the application of their knowledge by having to design an 8 week training planning with specific training principles used.

**Prerequisite:** None.

**Schedule Type:** Laboratory

**Contact Hours:** 2 lab

**Grade Mode:** Standard Letter

**PWS 12325 WOMEN'S WEIGHT TRAINING 1 Credit Hour**

A basic course in the use of equipment in an average weight room and its application towards the development of strength and power.

**Prerequisite:** None.

**Schedule Type:** Laboratory

**Contact Hours:** 2 lab

**Grade Mode:** Standard Letter

**PWS 12424 EXERCISE AND WEIGHT CONTROL 1 Credit Hour**

The course aims to educate the student on differing types of exercise styles currently available to assist in living a healthy lifestyle. The student will also learn ideal dietary requirements required to compliment the variety of exercise components. This course will teach how to combine this information to create a nutritional and training plan to meet current goals for this course. Students will pre-test and post-test physical fitness components in order to successfully assess how a change in a nutrition and exercise can contribute to living a healthy lifestyle.

**Prerequisite:** None.

**Schedule Type:** Laboratory

**Contact Hours:** 2 lab

**Grade Mode:** Standard Letter

**PWS 12425 NAUTILUS EXERCISES 1 Credit Hour**

This course will cover the proper use and weight training equipment. This course will also cover the instruction of proper weight training techniques for a safe and effective weight training program. Functional training and isolation training will be discussed and practiced, so that the student will benefit from both types of strength training exercises. The course is part theory and part practical application.

**Prerequisite:** None.

**Schedule Type:** Laboratory

**Contact Hours:** 2 lab

**Grade Mode:** Standard Letter

**PWS 13003 DANCE EXERCISE 1 Credit Hour**

Dance Exercise is a form of fitness, which unites the rhythmic performance, and energy of dance with the conditioning principles of the movement sciences. In addition to the physical exercise, students will also learn about the basic methodology behind an exercise class, a general history of dance exercise, and its relevance in the fitness industry today. Students should leave the course with knowledge of basic exercise and nutrition principles that can be applied in their personal exercise programs.

**Prerequisite:** None.

**Schedule Type:** Laboratory

**Contact Hours:** 2 lab

**Grade Mode:** Standard Letter

**PWS 13008 INTERMEDIATE VOLLEYBALL 1 Credit Hour**

Introduction of advanced playing systems and strategies in volleyball while emphasizing individual skill performance.

**Prerequisite:** PWS 10505.

**Schedule Type:** Laboratory

**Contact Hours:** 2 lab

**Grade Mode:** Standard Letter

**PWS 13010 JUDO-JUJITSU 1 Credit Hour**

Presentation of Jujitsu-Judo techniques for use in self-defense. This will include falling skills, throwing, grappling, come-along, as well as strikes and kicks and defenses against various weapons.

**Prerequisite:** None.

**Schedule Type:** Laboratory

**Contact Hours:** 2 lab

**Grade Mode:** Standard Letter

**PWS 13012 BACKPACKING 2 Credit Hours**

Trip planning and leadership, equipment and clothing selection, safety considerations, search and rescue, environmental ethics, map and compass, weekend backpacking trip. Student must supply equipment.

**Prerequisite:** Special approval.

**Schedule Type:** Lecture

**Contact Hours:** 4 lecture

**Grade Mode:** Standard Letter

**PWS 13016 CYCLING 1 Credit Hour**

**Prerequisite:** None.

**Schedule Type:** Laboratory

**Contact Hours:** 2 lab

**Grade Mode:** Standard Letter

**PWS 13022 CAMPING 2 Credit Hours**

Basic camping skills including: toolcraft, ropecraft, fire building, cooking, campsite management, equipment selection, safety considerations, environmental ethics, and map and compass for use on weekend trip. Students must supply own clothing and shelter.

**Prerequisite:** Special approval.

**Schedule Type:** Laboratory

**Contact Hours:** 4 lecture

**Grade Mode:** Standard Letter

**PWS 13028 INTRODUCTION TO KAYAKING 1 Credit Hour**

Basic paddling skills learned in a pool environment and then experienced in open lakes and whitewater situations.

**Prerequisite:** None.

**Schedule Type:** Laboratory

**Contact Hours:** 2 lab

**Grade Mode:** Standard Letter

**PWS 13030 BEGINNING ROCK CLIMBING 1 Credit Hour**

Basic instruction in safe rope handling, knots, conditioning, climbing technique, belaying, anchor systems and rappelling.

**Prerequisite:** None.

**Schedule Type:** Laboratory

**Contact Hours:** 2 lab

**Grade Mode:** Standard Letter

**PWS 13036 INDOOR CYCLING 1 Credit Hour**

Covers the knowledge and skills that are needed for understanding and participating in an indoor cycling program. Also covers the components of fitness and the physiological factors and benefits of exercise to promote a healthy lifestyle.

**Prerequisite:** None.

**Schedule Type:** Laboratory

**Contact Hours:** 2 lab

**Grade Mode:** Standard Letter

**PWS 13040 CARDIO KICKBOXING 1 Credit Hour**

Covers the knowledge and skills that are needed to understand and participate in Cardio Kickboxing. Also covers the components of fitness and the physiological factors and benefits of exercise to promote a healthy lifestyle. This course is part theory and part practical application.

**Prerequisite:** None.

**Schedule Type:** Laboratory

**Contact Hours:** 2 lab

**Grade Mode:** Standard Letter

**PWS 13041 HARDCORE ABS 1 Credit Hour**

Examines methods and techniques that improve abdominal and back strength, mechanics and the ability to dynamically stabilize. The student masters total body movement that occur through all three planes of motion. The exercises are performed on a stable and unstable surface for greater balance challenge. Equipment is used to increase resistance to intensify the work load. Improves core strength and activities of daily living.

**Prerequisite:** None.

**Schedule Type:** Laboratory

**Contact Hours:** 2 lab

**Grade Mode:** Standard Letter

**PWS 13093 VARIABLE TITLE WORKSHOP IN EXERCISE, LEISURE AND SPORT 1-2 Credit Hours**

(Repeatable for credit) Workshop in exercise, leisure and sport activities topics vary.

**Prerequisite:** None.

**Schedule Type:** Workshop

**Contact Hours:** 1-3 other

**Grade Mode:** Satisfactory/Unsatisfactory

## Physical Education and Sport Performance (PESP)

**PESP 15010 INTRODUCTION TO PHYSICAL EDUCATION, FITNESS AND SPORT 3 Credit Hours**

Development of a knowledge base on the roles, foundations, contextual and social issues, and career opportunities as they relate to physical education, physical activity and sport. Experimentation with various fitness tests and assessments that lead to the development of personal fitness plans.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PESP 15011 DEVELOPMENT AND ANALYSIS OF INVASION GAMES 3 Credit Hours**

Development, analysis and assessment of game performance skills used in invasion games.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PESP 15015 DEVELOPMENT AND ANALYSIS OF NET GAMES 3 Credit Hours**

Development and analysis of game performance skills in net games. Emphasis on problem solving strategies and skill execution related to game performance and on effective pedagogy.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PESP 15016 DEVELOPMENT AND ANALYSIS OF TARGET AND FIELD GAMES 3 Credit Hours**

Development and analysis of game performance skills used in target games and field-run-score games.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PESP 15018 DEVELOPMENT OF SWIMMING AND AQUATIC SKILLS 1 Credit Hour**

Development and analysis of basic aquatic skills, swimming strokes, starts and turns, diving skills, physical fitness principles, aquatic safety and basic rescue techniques.

**Prerequisite:** None.

**Schedule Type:** Laboratory

**Contact Hours:** 2 lab

**Grade Mode:** Standard Letter

**PESP 15020 FUNDAMENTAL MOVEMENT, GYMNASTICS AND DANCE 3 Credit Hours**

Designed to provide teachers and activity leaders with knowledge, skills, and dispositions necessary to teach developmentally appropriate progressions for fundamental movement skills, dance and gymnastics.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PESP 25025 TEACHING IN PHYSICAL EDUCATION 3 Credit Hours**

A seminar focused on the inquiry of teaching and learning of movement activities. A study of the role of the teacher, teacher behaviors, learning environments in movement activities and technology applications in physical education. Field observation hours requires a BCII and FBI background check report.

**Prerequisite:** PESP 15010.

**Schedule Type:** Laboratory, Lecture, Combined Lecture and Lab

**Contact Hours:** 1 lecture, 4 lab

**Grade Mode:** Standard Letter



**PESP 25026 OVERVIEW OF OUTDOOR PURSUITS AND ADVENTURE EDUCATION 3 Credit Hours**

An overview of outdoor pursuits and adventure education is provided for students preparing to serve students/clients in physically active, outdoor and adventure contexts. Includes a required service learning component, which involves the design and delivery of quality outdoor education programs and/or curricula to children within the local community.

**Prerequisite:** Physical Education and Sport Performance majors.

**Schedule Type:** Laboratory, Lecture, Combined Lecture and Lab

**Contact Hours:** 1 lecture, 4 lab

**Grade Mode:** Standard Letter

**PESP 25033 LIFESPAN MOTOR DEVELOPMENT 3 Credit Hours**

Introduction to motor development across the life span. Special emphasis on description of motor development changes and factors influencing change.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PESP 25056 ASSESSMENT OF LEARNING IN PHYSICAL EDUCATION AND SPORT 3 Credit Hours**

This course is designed to provide students with an understanding of the principles and applications of assessment methods in the fields of physical education and sport. Emphasis is placed on the selection, construction, administration, analysis and interpretation of appropriate assessments in a variety of settings, with particular emphasis on using assessments to evaluate learner progress relative to established standards in PE and sport. Throughout the course appropriate technological applications are used to facilitate data collection, management and analysis.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PESP 35010 PSYCHOLOGICAL DIMENSIONS OF MOTOR BEHAVIOR (WIC) 3 Credit Hours**

Psychological factors in exercise, physical activity and sport emphasizing motor control learning and performance. Laboratory included.

**Prerequisite:** EXSC 35068 or PESP 25056; and junior standing.

**Schedule Type:** Laboratory, Lecture, Combined Lecture and Lab

**Contact Hours:** 2 lecture, 2 lab

**Grade Mode:** Standard Letter

**Attributes:** Writing Intensive Course

**PESP 35020 FITNESS EDUCATION 3 Credit Hours**

This course is designed to prepare teachers, coaches, and physical activity specialists for an interdisciplinary approach to fitness education. Specific emphasis will be placed on enhancing students' content knowledge of fitness and physical activity within a classroom setting as well as applying pedagogical principles of class management, instructional strategies, feedback and assessment in practical settings to enhance students' ability to teach and coach fitness content within a variety of physical education, sport and physical activity contexts.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PESP 35040 COACHING FOOTBALL 2 Credit Hours**

Techniques of coaching football, including film analysis and offensive and defensive skills and systems.

**Prerequisite:** Not open to freshmen.

**Schedule Type:** Laboratory, Lecture, Combined Lecture and Lab

**Contact Hours:** 1 lecture, 2 lab

**Grade Mode:** Standard Letter

**PESP 35041 COACHING SOCCER 2 Credit Hours**

Coaching soccer, including analysis of skills strategy and administrative responsibilities.

**Prerequisite:** Not open to freshmen.

**Schedule Type:** Laboratory, Lecture, Combined Lecture and Lab

**Contact Hours:** 1 lecture, 2 lab

**Grade Mode:** Standard Letter

**PESP 35042 COACHING VOLLEYBALL 2 Credit Hours**

Coaching volleyball, including analysis of skills, offensive and defensive strategy and administrative responsibilities.

**Prerequisite:** Not open to freshmen.

**Schedule Type:** Laboratory, Lecture, Combined Lecture and Lab

**Contact Hours:** 1 lecture, 2 lab

**Grade Mode:** Standard Letter

**PESP 35044 COACHING BASKETBALL 2 Credit Hours**

Philosophy, fundamentals, strategy, administrative responsibilities and conditioning.

**Prerequisite:** Not open to freshmen.

**Schedule Type:** Laboratory, Lecture, Combined Lecture and Lab

**Contact Hours:** 1 lecture, 2 lab

**Grade Mode:** Standard Letter

**PESP 35048 COACHING BASEBALL AND SOFTBALL 2 Credit Hours**

Coaching techniques in softball and baseball, including analysis of basic skills, position play and offensive and defensive strategies.

**Prerequisite:** Not open to freshmen.

**Schedule Type:** Laboratory, Lecture, Combined Lecture and Lab

**Contact Hours:** 1 lecture, 2 lab

**Grade Mode:** Standard Letter

**PESP 35049 COACHING TRACK AND FIELD 2 Credit Hours**

Coaching techniques relative to track and field events. Principles of organization for track and field meets.

**Prerequisite:** Not open to freshmen.

**Schedule Type:** Laboratory, Lecture, Combined Lecture and Lab

**Contact Hours:** 1 lecture, 2 lab

**Grade Mode:** Standard Letter

**PESP 35084 MOTOR SKILL ANALYSIS 3 Credit Hours**

Designed to assist teachers, coaches, and physical activity specialists in the analysis of motor skills. Students study the applications of performance and biomechanical principles to enhance skill and tactical performance in physical activity settings.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PESP 45015 PSYCHOLOGY OF COACHING 3 Credit Hours**

(Slashed with CI 55015) Psychological factors affecting athletic performance, with particular attention to practice factors, personality, motivation and problem athletes.

**Prerequisite:** Junior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PESP 45020 CONTEMPORARY ATHLETIC COACHING 3 Credit Hours**

(Slashed with CI 55020) A focus on the philosophy, skills strategies and tactics of coaching within contemporary society.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PESP 45037 ADAPTED PHYSICAL EDUCATION 3 Credit Hours**

An academic and practical approach to physical education for specific disorders. Field based experience (10 hours).

**Prerequisite:** Junior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PESP 45051 ELEMENTARY SCHOOL PHYSICAL EDUCATION METHODS 3 Credit Hours**

(Slashed with CI 55051) Approaches to teaching in elementary school physical education. Focus on establishing an environment for learning, planning standards based lessons, instructional effectiveness, and assessment of student learning. Students are required to complete Bureau of Criminal Investigation and Identification (BCII) and Federal Bureau of Investigation (FBI) background checks and submit the results to authorized personnel at their assigned school-agency before the first day of field experience.

**Prerequisite:** PESP 15010 and PESP 15011 and PESP 15015 and PESP 15016 and PESP 15020 and PESP 25025 and PESP 25033; and admission to advanced study.

**Corequisite:** PESP 45053.

**Schedule Type:** Laboratory, Lecture, Combined Lecture and Lab

**Contact Hours:** 2 lecture, 2 lab

**Grade Mode:** Standard Letter

**PESP 45053 ELEMENTARY SCHOOL PHYSICAL EDUCATION CONTENT 3 Credit Hours**

(Slashed with CI 55053) Physical education content for the elementary school child with emphasis on developmentally appropriate learning in three domains. Students are required to complete Bureau of Criminal Investigation and Identification (BCII) and Federal Bureau of Investigation (FBI) background checks and submit the results to authorized personnel at their assigned school-agency before the first day of field experience.

**Prerequisite:** PESP 15010 and PESP 15011 and PESP 15015 and PESP 15016 and PESP 15020 and PESP 25025 and PESP 25033; and admission to advanced study.

**Corequisite:** PESP 45051.

**Schedule Type:** Laboratory, Lecture, Combined Lecture and Lab

**Contact Hours:** 2 lecture, 2 lab

**Grade Mode:** Standard Letter

**PESP 45058 SECONDARY SCHOOL PHYSICAL EDUCATION METHODS 3 Credit Hours**

(Slashed with CI 55058) Approaches to teaching in secondary school physical education. Focus on management of the learning environment, planning for learning outcomes in three domains, instructional effectiveness, and sequential curriculum development. Students are required to complete Bureau of Criminal Investigation and Identification (BCII) and Federal Bureau of Investigation (FBI) background checks and submit the results to authorized personnel at their assigned school-agency before the first day of field experience.

**Prerequisite:** PESP 15010 and PESP 15011 and PESP 15015 and PESP 15016 and PESP 15020 and PESP 25025 and PESP 25033; and admission to advanced study.

**Corequisite:** PESP 45059.

**Schedule Type:** Laboratory, Lecture, Combined Lecture and Lab

**Contact Hours:** 2 lecture, 2 lab

**Grade Mode:** Standard Letter

**PESP 45059 SECONDARY SCHOOL PHYSICAL EDUCATION CONTENT 3 Credit Hours**

(Slashed with CI 55059) Introduction and development of content, standards-based curriculum models, management and organizational skills related to sports and activities utilized in secondary school physical education. Students are required to complete Bureau of Criminal Investigation and Identification (BCII) and Federal Bureau of Investigation (FBI) background checks and submit the results to authorized personnel at their assigned school-agency before the first day of field experience.

**Prerequisite:** PESP 15010 and PESP 15011 and PESP 15015 and PESP 15016 and PESP 15020 and PESP 25025 and PESP 25033; and admission to advanced study.

**Corequisite:** PESP 45058.

**Schedule Type:** Laboratory, Lecture, Combined Lecture and Lab

**Contact Hours:** 2 lecture, 2 lab

**Grade Mode:** Standard Letter

**PESP 45092 INTERNSHIP IN PHYSICAL EDUCATION (ELR) 2-4 Credit Hours**

(Repeatable for a maximum of 8 credit hours) Supervised full-time experience providing knowledge of overall operations for an agency or sports program in an approved setting. Forty-five (45) work hours per credit hour.

**Prerequisite:** Senior standing; and special approval.

**Schedule Type:** Practical Experience

**Contact Hours:** 6-12 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**Attributes:** Experiential Learning Requirement

**PESP 45096 INDIVIDUAL INVESTIGATION IN PHYSICAL EDUCATION 1-3 Credit Hours**

(Repeatable for a maximum of 6 credit hours) Independent study completed under the supervision of a faculty member. Written approval of supervising faculty member and school director required prior to registration.

**Prerequisite:** Junior standing; and special approval.

**Schedule Type:** Individual Investigation

**Contact Hours:** 3-6 other

**Grade Mode:** Standard Letter-IP

**PESP 45692 INTERNSHIP IN ATHLETIC COACHING (ELR) 2-4 Credit Hours**

(Repeatable for a maximum of 4 credit hours) Supervised experience in organized sport focused upon the duties of a coach; can involve one or more level (youth, school, college, professional) and sport. 45 contact hours per credit.

**Prerequisite:** PESP 45020; and special approval.

**Schedule Type:** Practical Experience

**Contact Hours:** 6-12 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**Attributes:** Experiential Learning Requirement

**PESP 49525 INQUIRY INTO PROFESSIONAL PRACTICE IN PHYSICAL EDUCATION 3 Credit Hours**

Seminar focused on development of those skills and knowledge which enable future teachers to engage in effective reflective, collaborative and ethical professional practice.

**Prerequisite:** Admission to advanced study.

**Corequisite:** PESP 49592.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PESP 49592 STUDENT TEACHING IN PHYSICAL EDUCATION (ELR) 12 Credit Hours**

This experience provides for a full semester of student teaching in a school setting that is corequisite with PESP 49525 Inquiry into Professional Practice in Physical Education. Students are required to complete Bureau of Criminal Investigation and Identification (BCII) and Federal Bureau of Investigation (FBI) background checks and submit the results to authorized personnel at their assigned school/agency before the first day of the semester in which student teaching/ internship will take place; Official valid certification of Child Safety Training, approved Basic Life Support and A.L.I.C.E. Training must be presented to the campus office of clinical experience or designated faculty/staff at Regional campuses as prerequisite for student teaching.

**Prerequisite:** Admission to advanced study; and special approval.

**Corequisite:** PESP 49525.

**Schedule Type:** Practical Experience

**Contact Hours:** 45 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**Attributes:** Experiential Learning Requirement

## Adapted Physical Education Endorsement Preparation - Non-Degree

College of Education Health and Human Services  
School of Teaching, Learning and Curriculum Studies  
404 White Hall  
Kent Campus  
330-672-2580  
www.kent.edu/ehhs/tlcs

### Description

The Adapted Physical Education Endorsement Preparation non-degree program offered by Kent State University Physical Education Teacher Education has been approved by the Ohio Department of Higher Education. The endorsement consists of two graduate level courses.

The non-degree program is not a master's degree program. Students interested in obtaining a teaching license and a master's degree from Kent State University must also be fully admitted into the master's degree program and complete the prescribed coursework on the master's degree prospectus, in addition to courses that are prescribed here for licensure.

### Fully Offered At:

- Kent Campus

### Admission Requirements

- Bachelor degree from an accredited institution
- Minimum 3.00 GPA on a 4.00 scale
- Official transcript(s)
- Valid K-12 Physical Education teaching license from the State of Ohio

### Program Requirements

#### Endorsement Requirements

Code	Title	Credit Hours
<b>Endorsement Requirements</b>		
CI 65037	ADAPTED PHYSICAL EDUCATION	3
CI 65592	PRACTICUM IN ADAPTED PHYSICAL EDUCATION	3
Minimum Total Credit Hours:		6

### Graduation Requirements

- Minimum 3.000 overall GPA

### Licensure Information

Prior to program completion, the candidate must demonstrate proficiencies in the following areas (including but not limited to): Data literacy and analysis, use of research and assessment data, leadership and collaboration, utilizing and supporting appropriate technology for the discipline, and application of professional dispositions, laws and policies, codes of ethics and professional standards appropriate to their field of specialization.

Candidates seeking Ohio teaching licensure are required to pass specific requirements in order to apply for licensure from the Ohio Department of Education (ODE). Students should consult the Physical Education program for specific program requirements and refer to the Ohio Department of Education - Educator Preparation website for more information on assessments specific to licensure type.

### Athletic Coaching - Minor

College of Education Health and Human Services  
School of Teaching, Learning and Curriculum Studies  
404 White Hall  
Kent Campus  
330-672-2580  
www.kent.edu/ehhs/tlcs

### Description

The Athletic Coaching minor provides students with the knowledge and skills to coach in youth sport settings, K-12 schools and colleges. The 'National Standards for Sport Coaches,' published by the Society of

Health and Physical Educators (SHAPE America), serves as the guiding basis for the minor.

An internship completes the minor as a capstone experience.

### Fully Offered At:

- Kent Campus

## Admission Requirements

Admission to a minor is open to students declared in a bachelor's degree, the A.A.B. or A.A.S. degree or the A.T.S. degree (not Individualized Program major). Students declared only in the A.A. or A.S. degree or the A.T.S. degree in Individualized Program may not declare a minor. Students may not pursue a minor and a major in the same discipline.

To declare this minor, students must have attempted a minimum 12 credit hours at Kent State and earned a minimum 2.000 overall Kent State GPA. Students who have not attempted 12 credit hours at Kent State will be evaluated for admission based on their high school GPA for new students or transfer GPA for transfer students. Transfer students who have not attempted 12 credit hours of college-level coursework at Kent State and/or other institutions will be evaluated based on both their high school GPA and college GPA.

## Minor Requirements

Code	Title	Credit Hours
<b>Minor Requirements</b>		
PESP 25033	LIFESPAN MOTOR DEVELOPMENT	3
PESP 35020	FITNESS EDUCATION	3
PESP 35084	MOTOR SKILL ANALYSIS	3
PESP 45015	PSYCHOLOGY OF COACHING	3
PESP 45020	CONTEMPORARY ATHLETIC COACHING	3
PESP 45692	INTERNSHIP IN ATHLETIC COACHING (ELR)	3
SPAD 45021	ORGANIZATION AND ADMINISTRATION OF ATHLETICS	3
Minor Elective, choose from the following:		
PESP 35040	COACHING FOOTBALL	
PESP 35041	COACHING SOCCER	
PESP 35042	COACHING VOLLEYBALL	
PESP 35044	COACHING BASKETBALL	
PESP 35048	COACHING BASEBALL AND SOFTBALL	
PESP 35049	COACHING TRACK AND FIELD	
Minimum Total Credit Hours:		23

## Graduation Requirements

Minimum Minor GPA	Minimum Overall GPA
2.250	2.000

- Certification in American Red Cross First Aid and CPR.
- Minimum 6 credit hours in the minor must be upper-division coursework (30000 and 40000 level).
- Minimum 6 credit hours in the minor must be outside of the course requirements for any major or other minor the student is pursuing.
- Minimum 50 percent of the total credit hours for the minor must be taken at Kent State (in residence).

## Career - Technical Teacher Education - M.Ed.

**College of Education Health and Human Services**  
 School of Teaching, Learning and Curriculum Studies  
 404 White Hall  
 Kent Campus  
 330-672-2580  
[www.kent.edu/ehhs/tlcs](http://www.kent.edu/ehhs/tlcs)

## Description

The Master of Education degree in Career-Technical Teacher Education serves individuals who desire to continue as classroom and/or laboratory instructors in one of the career-technical service areas. The program offers a special needs specialization, which focuses on coursework and professional experiences related to the study of special needs populations in career-technical education.

### Fully Offered At:

- Kent Campus

## Admission Requirements

- Bachelor's degree from an accredited college or university for unconditional admission
- Minimum 3.000 undergraduate GPA on a 4.000 point scale for unconditional admission
- Official transcript(s)
- Goal statement
- Two letters of recommendation
- English language proficiency - all international students must provide proof of English language proficiency (unless they meet specific exceptions) by earning one of the following:
  - Minimum 550 TOEFL PBT score (paper-based version)
  - Minimum 79 TOEFL IBT score (Internet-based version)
  - Minimum 77 MELAB score
  - Minimum 6.5 IELTS score
  - Minimum 58 PTE score
  - Minimum 110 Duolingo English Test score

For more information about graduate admissions, please visit the Graduate Studies admission website. For more information on international admission, visit the Office of Global Education's admission website.

## Program Learning Outcomes

Graduates of this program will be able to:

1. Expand use of instruction based on learner needs, including individualized, mixed-ability, cooperative and teamwork.
2. Be competent in using various instructional strategies.

## Program Requirements

### Major Requirements

Code	Title	Credit Hours
<b>Major Requirements</b>		
CTTE 56020	CURRICULUM GUIDE: DESIGN AND APPLICATION	3
CTTE 66001	PRINCIPLES AND PRACTICES IN CAREER TECHNICAL EDUCATION	3
CTTE 66003	ANALYSIS OF HUMAN RESOURCE DEVELOPMENT	3
CTTE 66004	PROGRAM EVALUATION IN CAREER TECHNICAL EDUCATION	3
CTTE 66005	SPECIAL POPULATIONS IN CAREER TECHNICAL EDUCATION	3
EVAL 65510 or EVAL 65511	STATISTICS I FOR EDUCATIONAL SERVICES RESEARCH IN EDUCATIONAL SERVICES	3
Major Elective, choose from the following:		3
CULT 65530	FOUNDATIONS OF EDUCATION AND HUMAN SERVICES	
CULT 69521	MULTICULTURAL EDUCATIONAL PRACTICE AND POLICY	
CULT 69522	ETHICS IN PROFESSIONAL PRACTICE	
EPSY 65520	CHILD AND ADOLESCENT DEVELOPMENT	
EPSY 65521	ADULT DEVELOPMENT	
EPSY 65523	LIFE SPAN DEVELOPMENT	
EPSY 65524	LEARNING THEORIES	
Specialization, choose from the following: <sup>1</sup>		11
<i>Career-Technical Teaching</i>		
CTTE 56019	COORDINATION OF CAREER TECHNICAL COOPERATIVE EDUCATION PROGRAMS	
CTTE 60199	THESIS I	
and/or Career-Technical Teacher Education (CTTE) Teaching Area Content Electives		
and/or Career-Technical Teacher Education (CTTE) Electives		
<i>Special Needs</i>		
CTTE 56018	DISADVANTAGED YOUTH IN CAREER TECHNICAL EDUCATION	
CTTE 60199	THESIS I	
and/or Career-Technical Teacher Education (CTTE) Special Needs Electives		
and/or Special Education (SPED) Electives		
Minimum Total Credit Hours:		32

<sup>1</sup> Prerequisite or co-requisite for specialization: 6 credit hours undergraduate methods courses that include content in course of study/curriculum guide development and methods of teaching laboratory and related content.

### Graduation Requirements

No more than one-half of a graduate student's coursework may be taken in 50000 level courses.

### Licensure information

Candidates seeking Ohio licensure are required to pass specific assessments in order to apply for licensure. Students should consult their advisors for specific program requirements and refer to the Ohio

Department of Education-Educator Preparation website for more information on assessments specific to licensure type.

## Career-Based Intervention Endorsement Preparation - Non-Degree

**College of Education Health and Human Services**  
School of Teaching, Learning and Curriculum Studies  
404 White Hall  
Kent Campus  
330-672-2580  
[www.kent.edu/ehhs/tlcs](http://www.kent.edu/ehhs/tlcs)

### Description

The Career-Based Intervention Endorsement Preparation non-degree program is designed to prepare educators for teaching learners ages 12 through 21 or grades 7 through 12 who are identified as disadvantaged (either academically and/or economically) or with disabilities and who have barriers to achieving academic and career success. Successful completion of this program qualifies individuals to apply for the Career-Based Intervention endorsement granted by the Ohio Department of Education.

The program does not result in a degree. Individuals interested in obtaining this endorsement and a graduate degree from Kent State University must also be fully admitted into the major and complete the prescribed coursework.

### Fully Offered At:

- Hybrid (online/on-ground)
- Kent Campus

### Admission Requirements

- Baccalaureate degree from an accredited college or university
- Minimum 3.00 GPA on a 4.000 scale
- Official transcript(s)
- Evidence of two years of successful teaching under a current professional, permanent, resident educator or five-year career-technical teaching license from the State of Ohio
- Evidence of one year of full-time work experience outside education.

### Program Learning Outcomes

Completers of this program will be able to:

1. Implement a curriculum guide based on the CBI standards established by the Ohio Department of Education.
2. Design a CBI program at middle or high school levels using one of the approved ODE models for CBI.



## Program Requirements

### Endorsement Requirements

Code	Title	Credit Hours
<b>Endorsement Requirements</b>		
CTTE 50093	VARIABLE TOPIC WORKSHOP IN CAREER TECHNICAL EDUCATION	2
CTTE 56018	DISADVANTAGED YOUTH IN CAREER TECHNICAL EDUCATION	3
CTTE 56019	COORDINATION OF CAREER TECHNICAL COOPERATIVE EDUCATION PROGRAMS	3
CTTE 56020	CURRICULUM GUIDE: DESIGN AND APPLICATION	3

Minimum Total Credit Hours: 11

### Graduation Requirements

- Minimum 3.000 overall GPA

### Licensure Information

Prior to program completion, the candidate must demonstrate proficiencies in the following areas (including but not limited to): Data literacy and analysis, use of research and assessment data, leadership and collaboration, utilizing and supporting appropriate technology for the discipline, and application of professional dispositions, laws and policies, codes of ethics and professional standards appropriate to their field of specialization.

Candidates seeking Ohio teaching licensure are required to pass specific requirements in order to apply for licensure from the Ohio Department of Education (ODE). Students should consult with the School of Teaching, Learning and Curriculum Studies for specific program requirements and refer to the Ohio Department of Education - Educator Preparation website for more information on assessments specific to licensure type.

## Career-Technical Teacher Education - Graduate Certificate

**College of Education Health and Human Services**  
School of Teaching, Learning and Curriculum Studies  
404 White Hall  
Kent Campus  
330-672-2580  
[www.kent.edu/ehhs/tlcs](http://www.kent.edu/ehhs/tlcs)

### Description

The Career-Technical Teacher Education graduate certificate provides the educational experiences for teachers pursuing an Ohio teaching license in this field.

### Fully Offered At:

- Kent Campus

### Admission Requirements

- Official transcript(s)
- Two letters of recommendation
- Statement of personal goals and professional objectives

## Program Requirements

### Certificate Requirements

Code	Title	Credit Hours
<b>Certificate Requirements</b>		
CTTE 54092	IN-SERVICE TEACHING - PRACTICUM	2
CTTE 54099	IN-SERVICE TEACHING - CAPSTONE	1
CTTE 55372	ISSUES IN CAREER TECHNICAL EDUCATION SUBJECTS	3
CTTE 55377	CAREER AND TECHNICAL EDUCATION:ADVANCED METHODOLOGIES	3
CTTE 56015	METHODS OF CAREER AND TECHNICAL EDUCATION	3
CTTE 56020	CURRICULUM GUIDE: DESIGN AND APPLICATION	3
CTTE 66001	PRINCIPLES AND PRACTICES IN CAREER TECHNICAL EDUCATION	3
CTTE 66004	PROGRAM EVALUATION IN CAREER TECHNICAL EDUCATION	3
CTTE 66005	SPECIAL POPULATIONS IN CAREER TECHNICAL EDUCATION	3

Minimum Total Credit Hours: 24

### Graduation Requirements

Minimum Certificate GPA	Minimum Overall GPA
3.000	

## Career-Technical Teacher Education - Undergraduate Certificate

**College of Education Health and Human Services**  
School of Teaching, Learning and Curriculum Studies  
404 White Hall  
Kent Campus  
330-672-2580  
[www.kent.edu/ehhs/tlcs](http://www.kent.edu/ehhs/tlcs)

### Description

The Career Technical Teacher Education undergraduate certificate articulates well into an Associate of Applied Science degree. Completers of the certificate must also have finished a Career-Technical Education license via the industry option issued.

### Fully Offered At:

- Kent Campus

### Admission Requirements

The university affirmatively strives to provide educational opportunities and access to students with varied backgrounds, those with special talents and adult students who graduated from high school three or more years ago.

**Freshman Students on the Kent Campus:** The freshman admission policy on the Kent Campus is selective. Admission decisions are based upon the following: cumulative grade point average, ACT and/or SAT

scores, strength of high school college preparatory curriculum and grade trends. The Admissions Office at the Kent Campus may defer the admission of students who do not meet admissions criteria but who demonstrate areas of promise for successful college study. Deferred applicants may begin their college coursework at one of seven regional campuses of Kent State University. For more information on admissions, including additional requirements for some academic programs, visit the admissions website for new freshmen.

**Freshman Students on the Regional Campuses:** Kent State campuses at Ashtabula, East Liverpool, Geauga, Salem, Stark, Trumbull and Tuscarawas, as well as the Regional Academic Center in Twinsburg, have open enrollment admission for students who hold a high school diploma, GED or equivalent.

**English Language Proficiency Requirements for International Students:** All international students must provide proof of English language proficiency (unless they meet specific exceptions) by earning a minimum 525 TOEFL score (71 on the Internet-based version), minimum 75 MELAB score, minimum 6.0 IELTS score or minimum 48 PTE score, or by completing the ESL level 112 Intensive Program. For more information on international admission, visit the Office of Global Education's admission website.

**Transfer, Transitioning and Former Students:** For more information about admission criteria for transfer, transitioning and former students, please visit the admissions website.

## Program Learning Outcomes

Graduates of this program will be able to:

1. Acquire knowledge on lesson planning
2. Acquire knowledge classroom management
3. Gain experience in lesson delivery
4. Acquire knowledge on assessment techniques
5. Develop professional teacher dispositions

## Program Requirements

### Certificate Requirements

Code	Title	Credit Hours
<b>Certificate Requirements</b>		
CTTE 36014	EVALUATION PRACTICES IN CAREER TECHNICAL EDUCATION	3
CTTE 44092	IN-SERVICE TEACHING - PRACTICUM (ELR)	2
CTTE 44099	IN-SERVICE TEACHING - CAPSTONE (ELR)	1
CTTE 45372	ISSUES IN CAREER TECHNICAL EDUCATION SUBJECTS	3
CTTE 45377	CAREER AND TECHNICAL EDUCATION: ADVANCED METHODOLOGIES	3
CTTE 46015	METHODS OF CAREER AND TECHNICAL EDUCATION	3
CTTE 46017	STUDENT-CENTERED LEADERHISP IN CAREER TECHNICAL EDUCATION	3
CTTE 46018	DISADVANTAGED YOUTH IN CAREER TECHNICAL EDUCATION (WIC)	3
CTTE 46020	CURRICULUM GUIDE:DESIGN AND APPLICATION	3

Minimum Total Credit Hours: 24

## Graduation Requirements

Minimum Certificate GPA	Minimum Overall GPA
2.000	2.000

## Computer Science Endorsement Preparation - Non-Degree

**College of Education Health and Human Services**  
School of Teaching, Learning and Curriculum Studies  
404 White Hall  
Kent Campus  
330-672-2580  
[www.kent.edu/ehhs/tlcs](http://www.kent.edu/ehhs/tlcs)

## Description

The Computer Science Endorsement Preparation non-degree program is intended for teachers who want to become computer science educators or assume various technology coordinator positions in a school or at the school district level.

This endorsement must be added to an existing teaching license and cannot be obtained independently as a separate licensure. Students who hold a master's degree in education or another appropriate field may be able to earn the endorsement with this non-degree program. Students without a master's degree may work toward both a master's degree and the endorsement by applying to the M.Ed. in Educational Technology, Computer Science Endorsement Preparation concentration.

### Fully Offered At:

- Kent Campus (hybrid online/on-ground)

## Accreditation

The Computer Science Endorsement Preparation non-degree program has received national accreditation from the International Society for Technology in Education (ISTE), the professional organization that reviews licensure programs for the National Council for the Accreditation of Teacher Education (NCATE).

## Admission Requirements

- Master's degree in education or another appropriate field from an accredited institution
- Minimum 3.000 GPA on a 4.000 point scale (last degree)
- Evidence of valid four-year Resident Educator or five-year Professional State of Ohio teaching license
- Official transcripts
- Goal statement
- Two letters of recommendation from academic and professional references

For more information about graduate admissions, please visit the Graduate Studies admission website.

## Program Learning Outcomes

Completers of this non-degree program will be able to:

1. Demonstrate knowledge of computer science content and model important principles and concepts:
  - a. Demonstrate knowledge of and proficiency in data representation and abstraction
  - b. Effectively design, develop and test algorithms
  - c. Demonstrate knowledge of digital devices, systems and networks
  - d. Demonstrate an understanding of the role computer science plays and its impact in the modern world
2. Plan and teach computer science lessons/units using effective and engaging practices and methodologies.
3. Design environments that promote effective teaching and learning in computer science classrooms and online learning environments and promote digital citizenship.
4. Create and maintain safe, ethical, supportive, fair and effective learning environments for all students.
5. Participate in, promote and model ongoing professional development and lifelong learning relative to computer science and computer science education.

## Program Requirements

### LICENSURE REQUIREMENTS

Code	Title	Credit Hours
<b>Licensure Requirements</b>		
CS 61002	ALGORITHMS AND PROGRAMMING I	4
CS 61003	ALGORITHMS AND PROGRAMMING II	4
CS 61004	OPERATING SYSTEMS AND ARCHITECTURE	4
ETEC 67402	MANAGING SCHOOL TECHNOLOGY CENTERS AND PROGRAMS	3
ETEC 67434	EMERGING TECHNOLOGIES FOR EDUCATION	3
ETEC 67492	PRACTICUM AND PORTFOLIO	3
Minimum Total Credit Hours:		21

### PROGRESSION REQUIREMENTS

- Must maintain a minimum 3.000 overall GPA

### GRADUATION REQUIREMENTS

- Minimum 3.000 overall GPA

### Licensure Information

Prior to program completion, the candidate must demonstrate proficiencies in the following areas (including but not limited to): Data literacy and analysis, use of research and assessment data, leadership and collaboration, utilizing and supporting appropriate technology for the discipline, and application of professional dispositions, laws and policies, codes of ethics and professional standards appropriate to their field of specialization.

Candidates seeking Ohio teaching licensure are required to pass specific requirements in order to apply for licensure from the Ohio Department of Education (ODE). Students must pass the Ohio Assessment Exam (OAE) to obtain this licensure. Students should consult the Educational Technology program area for specific program requirements and refer to the Ohio Department of Education - Educator Preparation website for more information on assessments specific to licensure type.

## Computer Technology Endorsement Preparation - Non-Degree

**College of Education Health and Human Services**  
 School of Teaching, Learning and Curriculum Studies  
 404 White Hall  
 Kent Campus  
 330-672-2580  
[www.kent.edu/ehhs/tlcs](http://www.kent.edu/ehhs/tlcs)

### Description

The Computer Technology Endorsement Preparation non-degree program is intended for teachers who plan to teach computer applications or who want to assume technology coordinator positions in a school or at the school district level.

This endorsement must be added to an existing teaching license and cannot be obtained independently as a separate licensure. Students who hold a master's degree in education or another appropriate field may be able to earn the endorsement with this non-degree program. Students without a master's degree may work toward both a master's degree and the endorsement by applying to the M.Ed. in Educational Technology, Computer Technology Endorsement Preparation concentration.

### Fully Offered At:

- Online

### Accreditation

The Computer Technology Endorsement Preparation non-degree program has received national accreditation from the International Society for Technology in Education (ISTE), the professional organization that reviews licensure programs for the National Council for the Accreditation of Teacher Education (NCATE).

### Admission Requirements

- Master's degree in education or another appropriate field from an accredited institution
- Minimum 3.000 GPA on a 4.000 point scale (last degree)
- Evidence of valid four-year Resident Educator or five-year Professional State of Ohio teaching license
- Official transcripts
- Goal statement
- Two letters of recommendation from academic and professional references

For more information about graduate admissions, please visit the Graduate Studies admission website.

### Program Learning Outcomes

Completers of this non-degree program will be able to:

1. Use technology to create equitable and ongoing access to high-quality learning
2. Participate in and model ongoing professional development and lifelong learning relative to educational technology and innovations in pedagogy.

3. Model and support educators to design learning experiences and environments to improve their instructional practice and student learning outcomes.
4. Plan, provide and evaluate the impact of professional learning for educators and leaders to use technology to advance teaching and learning.
5. Model and support the use of data to inform instruction and professional learning.
6. Model digital citizenship and support educators and students in recognizing the responsibilities and opportunities inherent in living in a digital world.

## Program Requirements

### LICENSURE REQUIREMENTS

Code	Title	Credit Hours
<b>Licensure Requirements</b>		
ETEC 57400	TRENDS IN EDUCATIONAL TECHNOLOGY	3
ETEC 67402	MANAGING SCHOOL TECHNOLOGY CENTERS AND PROGRAMS	3
ETEC 67425	MANAGING TECHNOLOGICAL CHANGE	3
ETEC 67426	MANAGING SCHOOL TECHNOLOGIES	3
ETEC 67492	PRACTICUM AND PORTFOLIO	3
Minimum Total Credit Hours:		15

### Progression Requirements

- Must maintain a minimum 3.000 overall GPA

### Graduation Requirements

- Minimum 3.000 overall GPA

### Licensure Information

Prior to program completion, the candidate must demonstrate proficiencies in the following areas (including but not limited to): Data literacy and analysis, use of research and assessment data, leadership and collaboration, utilizing and supporting appropriate technology for the discipline, and application of professional dispositions, laws and policies, codes of ethics and professional standards appropriate to their field of specialization.

Candidates seeking Ohio teaching licensure are required to pass specific requirements in order to apply for licensure from the Ohio Department of Education (ODE). Students must pass the Ohio Assessment Exam (OAE) to obtain this licensure. Students should consult the Educational Technology program area for specific program requirements and refer to the Ohio Department of Education - Educator Preparation website for more information on assessments specific to licensure type.

## Curriculum and Instruction - Ed.S.

### College of Education Health and Human Services

School of Teaching, Learning and Curriculum Studies

404 White Hall

Kent Campus

330-672-2580

[www.kent.edu/ehhs/tlcs](http://www.kent.edu/ehhs/tlcs)

## Description

The Educational Specialist degree in Curriculum and Instruction provides a wide range of graduate study opportunities in progressive, research-based curriculum and teaching practices. The program provides educators with advanced professional development beyond the master's degree for those who wish to become university educators or to hold leadership positions in areas of curriculum, supervision and teacher education.

### Fully Offered At:

- Kent Campus

## Admission Requirements

- Master's degree from an accredited college or university for unconditional admission
- Minimum 3.000 graduate GPA on a 4.000 point scale (minimum 3.250 graduate GPA is recommended) for unconditional admission
- Official transcript(s)
- Résumé or vita
- Application essay
- Two letters of recommendation
- English language proficiency - all international students must provide proof of English language proficiency (unless they meet specific exceptions) by earning one of the following:
  - Minimum 550 TOEFL PBT score (paper-based version)
  - Minimum 79 TOEFL IBT score (Internet-based version)
  - Minimum 77 MELAB score
  - Minimum 6.5 IELTS score
  - Minimum 58 PTE score
  - Minimum 110 Duolingo English Test score

For more information about graduate admissions, please visit the Graduate Studies admission website. For more information on international admission, visit the Office of Global Education's admission website.

## Program Learning Outcomes

Graduates of the program will be able to:

1. Educate in multicultural settings.
2. Function as professional leaders for curriculum reform and renewal.
3. Demonstrate the disposition and skills for continuing professional development.

## Program Requirements

### Major Requirements

Code	Title	Credit Hours
<b>Major Requirements</b>		
CI 77001	FUNDAMENTALS OF CURRICULUM <sup>1</sup>	3
	Research Elective	3
	Foundation Elective	3
	Additional Courses <sup>2</sup>	21
Minimum Total Credit Hours:		30

<sup>1</sup> Students who completed CI 67001 as part of their master's degree do not need to retake the course (as CI 77001). However, the students will still need to meet the minimum 30 credit hours for the Ed.S. degree.

<sup>2</sup> It is recommended that Ed.S. students complete an internship as part of their course work, in consultation with their advisor(s). If CI 77001 is included in the student's prospectus, a minimum of seven additional courses must be taken. If CI 77001 is not included in this prospectus, a minimum of eight additional courses must be taken.

## Curriculum and Instruction - M.Ed.

### College of Education Health and Human Services

School of Teaching, Learning and Curriculum Studies

404 White Hall

Kent Campus

330-672-2580

[www.kent.edu/ehhs/tlcs](http://www.kent.edu/ehhs/tlcs)

## Description

The Master of Education degree in Curriculum and Instruction provides a wide range of graduate study opportunities in progressive, research-based curriculum and teaching practices. The program prepares educators for continuing professional development, education in a multicultural society and leadership for curriculum reform and renewal.

The Curriculum and Instruction major comprises the following concentrations:

- Curriculum and Teaching Studies
- English/Language Arts Education
- Mathematics Education
- Middle Childhood Education
- Physical Education Teacher Education
- Science Education
- Secondary Education
- Social Studies Education

The concentrations do not lead to teacher education licensure or endorsement with the exception of the Physical Education Teacher Education concentration. The Physical Education Teacher Education concentration may lead to a multi-age pre-kindergarten through grade 12 license to teach physical education in Ohio. The program includes field experience components at the elementary and secondary levels, and culminates with a full-semester student teaching experience.

### Fully Offered At:

- Online (Curriculum and Teaching Studies, Mathematics Education concentrations)
- Hybrid - *online/on-ground at the Kent Campus* (Curriculum and Teaching Studies, English/Language Arts Education, Mathematics Education, Middle Childhood Education, Physical Education Teacher Education, Science Education and Secondary Education concentrations)

## Accreditation

Physical Education Teacher Education concentration: National Council for the Accreditation of Teacher Education

## Admission Requirements

The Secondary Education concentration does not allow direct admission; students may enter only with a change of major initiated by their faculty advisor. This concentration is for students who have completed the coursework for the M.A.T. degree in Secondary Education but who have not completed the teacher licensure requirements.

Applicants to the Physical Education Teacher Education concentration will be assessed holistically, considering academic credentials; standardized test scores of reading, writing, and mathematics; academic or professional references; non-academic dimensions; and other specific program criteria.

- Bachelor's degree from an accredited college or university<sup>1</sup> for unconditional admission
- Minimum 3.000 undergraduate GPA on a 4.000 point scale for unconditional admission
- Official transcript(s)
- GRE scores if GPA is below 3.000 (Physical Education Teacher Education concentration only, effective Spring 2021, GRE scores requirement will be replaced with the Praxis Core tests in reading, writing and mathematics<sup>2</sup>)
- Application essay
- Two letters of recommendation
- Interview (Physical Education Teacher Education concentration only)
- English language proficiency - all international students must provide proof of English language proficiency (unless they meet specific exceptions) by earning one of the following:
  - Minimum 550 TOEFL PBT score (paper-based version)
  - Minimum 79 TOEFL IBT score (Internet-based version)
  - Minimum 77 MELAB score
  - Minimum 6.5 IELTS score
  - Minimum 58 PTE score
  - Minimum 110 Duolingo English Test score

For more information about graduate admissions, please visit the Graduate Studies website. For more information on international admission, visit the Office of Global Education website.

<sup>1</sup> Applicants to the Physical Education Teacher Education concentration who do not have a physical education or related undergraduate degree may be required to complete additional prerequisite courses prior to program admission.



<sup>2</sup> All initial teacher licensure candidates are required to demonstrate basic competency in reading, writing and mathematics prior to admission. To demonstrate these competencies, students are required to take the Praxis Core tests in Reading, Mathematics, and Writing unless exempted by GRE scores fewer than five years old at the time of application. In order to gain exemption from Praxis CORE requirements, a student must achieve at or above the 50th percentile scores on the GRE Verbal, Quantitative, and Analytical Writing tests. Students who have not taken the GRE are strongly encouraged to take the Praxis CORE tests to demonstrate these competencies, rather than GRE. Further information is available in the Office of Graduate Student Services, 418 White Hall.

**Competency Test Equivalents:**

- Reading: GRE Verbal Reasoning/Praxis CORE Reading
- Mathematics: GRE Quantitative Reasoning, Praxis CORE Mathematics
- Writing: GRE Analytical Writing, Praxis CORE Writing

## Program Learning Outcomes

Graduates of the program will be able to:

1. Educate in multicultural settings.
2. Function as professional leaders for curriculum reform and renewal.
3. Demonstrate the disposition and skills for continuing professional development.

## Program Requirements

### Major Requirements

Code	Title	Credit Hours
<b>Major Requirements</b>		
CI 67001	FUNDAMENTALS OF CURRICULUM	3
CI 67002	CURRICULUM LEADERSHIP	3
EVAL 65511	RESEARCH IN EDUCATIONAL SERVICES	3

**Concentrations**

Choose from the following:	21-34
Curriculum and Teaching Studies	
English/Language Arts Education	
Mathematics Education	
Middle Childhood Education	
Physical Education Teacher Education	
Science Education	
Secondary Education	
Social Studies Education	

Minimum Total Credit Hours: 30-43

### Curriculum and Teaching Studies concentration Requirements

Code	Title	Credit Hours
<b>Concentration Requirements</b>		
Concentration Electives, choose from the following:		9
CI 61130	MULTICULTURAL EDUCATION: STRATEGIES	
CI 67003	TEACHER EDUCATION	
CI 67004	PROFESSIONAL DEVELOPMENT IN TEACHING	
CI 67010	CURRICULUM EVALUATION	

Curriculum and Instruction Electives, choose from list above or with advisor approval 12

Minimum Total Credit Hours: 21

### English/Language Arts Education concentration requirements

Code	Title	Credit Hours
<b>Concentration Requirements</b>		
Concentration Electives, choose from the following:		9
CI 67310	THEORY AND PRACTICE IN THE TEACHING OF READING	
CI 67312	TEACHING WRITING AS A PROCESS	
CI 67314	SURVEY OF YOUNG ADULT LITERATURE	
CI 67315	SURVEY OF CHILDREN'S LITERATURE	
CI 67339	WRITING ASSESSMENT AND RESPONSE	
CI 67517	NEW LITERACIES IN PRACTICE	

Curriculum and Instruction Electives, choose from list above or with advisor approval 12

Minimum Total Credit Hours: 21

### Mathematics Education concentration Requirements

Code	Title	Credit Hours
<b>Concentration Requirements</b>		
ADED 52267	IMPROVING MATHEMATICS INSTRUCTION FOR ADOLESCENT AND ADULT EDUCATION	3
or CI 67224	TEACHING MATHEMATICS USING COMPUTERS AND CALCULATORS	
or CI 67226	IMPROVING MATHEMATICS INSTRUCTION IN MIDDLE CHILDHOOD	

CI 67225 RESEARCH IN MATHEMATICS EDUCATION 3

CI 67791 SEMINAR IN MATHEMATICS EDUCATION 3

Curriculum and Instruction Electives, choose from list above or with advisor approval 12

Minimum Total Credit Hours: 21

### Middle Childhood Education concentration Requirements

Code	Title	Credit Hours
<b>Concentration Requirements</b>		
CI 67107	CURRICULUM AND ORGANIZATION IN THE MIDDLE GRADES	3
CI 67108	TEACHING AND LEARNING IN THE MIDDLE GRADES	3
HDFS 64027	EARLY ADOLESCENCE	3
Concentration Electives, choose from the following:		3
CI 61130	MULTICULTURAL EDUCATION: STRATEGIES	
CI 67003	TEACHER EDUCATION	
CI 67004	PROFESSIONAL DEVELOPMENT IN TEACHING	
CI 67010	CURRICULUM EVALUATION	

Curriculum and Instruction Electives, choose from list above or with advisor approval 9

Minimum Total Credit Hours: 21

## Physical Education Teacher Education concentration Requirements

Code	Title	Credit Hours
<b>Concentration Requirements</b>		
CI 55051	ELEMENTARY SCHOOL PHYSICAL EDUCATION METHODS <sup>1</sup>	3
CI 55053	ELEMENTARY SCHOOL PHYSICAL EDUCATION CONTENT <sup>1</sup>	3
CI 55058	SECONDARY SCHOOL PHYSICAL EDUCATION METHODS <sup>1</sup>	3
CI 55059	SECONDARY SCHOOL PHYSICAL EDUCATION CONTENT <sup>1</sup>	3
CI 65025	CONTEMPORARY ISSUES IN SPORT PEDAGOGY - AN INTERNATIONAL PERSPECTIVE	3
CI 65037	ADAPTED PHYSICAL EDUCATION <sup>1</sup>	3
CI 65055	CURRICULUM DEVELOPMENT IN SPORT PEDAGOGY	3
CI 65392	ADVANCED PRACTICUM IN PHYSICAL EDUCATION <sup>1</sup>	10
CI 67330	READING IN CONTENT AREAS	3
Minimum Total Credit Hours:		34

<sup>1</sup> Teacher candidates are only permitted to repeat a field experience course once. Please see Repeating Field Experience Courses in Teacher Education Programs policy for details.

## Science Education Concentration Requirements

Code	Title	Credit Hours
<b>Concentration Requirements</b>		
CI 61133	ISSUES AND TRENDS IN ELEMENTARY SCIENCE	3
CI 61134	RESEARCH TRENDS IN SCIENCE EDUCATION	3
CI 61140	CULTURE AND MULTICULTURALISM IN SCIENCE EDUCATION	3
or CI 61141	NATURE OF SCIENCE IN SCIENCE EDUCATION	
or CI 67240	INTRODUCTION TO ENVIRONMENTAL EDUCATION	
Curriculum and Instruction Electives, choose from list above or with advisor approval		12
Minimum Total Credit Hours:		21

## Social Studies Education concentration Requirements

Code	Title	Credit Hours
<b>Concentration Requirements</b>		
CI 61125	ISSUES AND TRENDS IN SOCIAL STUDIES EDUCATION	3
CI 61126	RESEARCH IN SOCIAL STUDIES TEACHING AND LEARNING	3
CI 61127	TECHNOLOGY AND SOCIAL STUDIES	3
Curriculum and Instruction Electives (advisor approval)		12
Minimum Total Credit Hours:		21

## secondary education concentration requirements

Code	Title	Credit Hours
<b>Concentration Requirements</b>		
ADED 62145	PRINCIPLES OF SECONDARY TEACHING	3
ADED 62191	SEMINAR IN SECONDARY EDUCATION	1-2
ADED 67147	TEACHING ADOLESCENTS IN THE SECONDARY SCHOOL CULTURE	3
CULT 65530	FOUNDATIONS OF EDUCATION AND HUMAN SERVICES	3
EPSY 68901	PSYCHOLOGICAL FOUNDATIONS OF EDUCATION	3
SPED 53062	CURRICULUM METHODS MILD/MODERATE INTERVENTION	3
Subject Area Requirements		6
Minimum Total Credit Hours:		22

## Licensure information

Candidates seeking Ohio licensure are required to pass specific assessments in order to apply for licensure. Students should consult with their advisors for specific program requirements and refer to the Ohio Department of Education-Educator Preparation website for more information on assessments specific to licensure type.

## Curriculum and Instruction - Ph.D.

**College of Education Health and Human Services**  
 School of Teaching, Learning and Curriculum Studies  
 404 White Hall  
 Kent Campus  
 330-672-2580  
[www.kent.edu/ehhs/tlcs](http://www.kent.edu/ehhs/tlcs)

## Description

The Ph.D. degree in Curriculum and Instruction prepares scholars for successful careers in college and university settings and produces curriculum leaders for schools and other educational institutions. The program is relevant for qualified students interested in issues related to educational research with a curriculum and instruction focus. Upon completion of the program, students will have gained insight into what it means to transition from doctoral student to disciplined scholar.

The major comprises the following concentrations:

- Adapted/Physical Education
- Curriculum and Teaching Studies
- Educational Technology
- Early Childhood Education
- Literacy
- Mathematics Education
- Science Education
- Social Studies Education

## Fully Offered At:

- Kent Campus

## Admission Requirements

- Master's degree from an accredited college or university for unconditional admission
- Minimum 3.000 graduate GPA on a 4.000 point scale (minimum 3.500 graduate GPA is recommended) for unconditional admission
- Official transcript(s)
- GRE scores with recommended minimum 50th percentile score
- Résumé or vita
- Application essay
- Two letters of recommendation
- Interview
- English language proficiency - all international students must provide proof of English language proficiency (unless they meet specific exceptions) by earning one of the following:
  - Minimum 550 TOEFL PBT score (paper-based version)
  - Minimum 79 TOEFL IBT score (Internet-based version)
  - Minimum 77 MELAB score
  - Minimum 6.5 IELTS score
  - Minimum 58 PTE score
  - Minimum 110 Duolingo English Test score

For more information about graduate admissions, please visit the Graduate Studies website. For more information on international admission, visit the Office of Global Education website.

## Program Learning Outcomes

Graduates of the program will be able to:

1. Practice research-based leadership.
2. Function as responsible, informed researchers in a specific curriculum and instruction area of study and professional practice.
3. Establish a disciplined life of inquiry.
4. Conduct research informed by multicultural education literature.

## Program Requirements

### Major Requirements

Code	Title	Credit Hours
<b>Major Requirements</b>		
CI 87000	THEORY AND RESEARCH IN TEACHING	3
CI 87001	THEORY AND RESEARCH IN CURRICULUM	3
CI 87002	FORMS OF INQUIRY IN CURRICULUM AND INSTRUCTION	3
EVAL 75510	STATISTICS I FOR EDUCATIONAL SERVICES	3
EVAL 85515	QUANTITATIVE RESEARCH DESIGN AND ANALYSIS	3
EVAL 85516	QUALITATIVE RESEARCH DESIGN	3
EVAL 85517	ADVANCED QUANTITATIVE RESEARCH IN EDUCATIONAL SERVICES <sup>1</sup>	3
or EVAL 85518	ADVANCED QUALITATIVE RESEARCH IN EDUCATIONAL SERVICES	
Educational Foundations Course <sup>2</sup>		3
<b>Culminating Requirements</b>		
CI 80089	RESIDENCY I	3
CI 80090	RESIDENCY II	3

CI 80199 DISSERTATION I<sup>2</sup> 30

### Concentrations

Choose from the following: 12

Adapted/Physical Education
Curriculum and Teaching Studies
Educational Technology
Early Children Education
Literacy
Mathematics Education
Science Education
Social Studies Education

Minimum Total Credit Hours: 72

- <sup>1</sup> Students may complete another specialized research methods course with approval.
- <sup>2</sup> Upon admission to candidacy, each doctoral candidate must register for CI 80199. It is expected that a doctoral candidate will continuously register for Dissertation I for a total of 30 credit hours, and thereafter CI 80299, each semester until all requirements for the degree have been met.

## Adapted/Physical Education Concentration Requirements

Code	Title	Credit Hours
<b>Concentration Requirements</b>		
Choose from the following:		12
CI 75592	PRACTICUM IN ADAPTED PHYSICAL EDUCATION	
CI 77096	INDIVIDUAL INVESTIGATION IN CURRICULUM AND INSTRUCTION	
CI 85025	CONTEMPORARY ISSUES IN SPORT PEDAGOGY - AN INTERNATIONAL PERSPECTIVE	
CI 85037	ADAPTED PHYSICAL EDUCATION	
CI 85044	PEDAGOGICAL ANALYSIS OF PHYSICAL EDUCATION AND SPORT	
CI 85055	CURRICULUM DEVELOPMENT IN SPORT PEDAGOGY	
Other doctoral-level course, with advisor approval		
Minimum Total Credit Hours:		12

## Curriculum and Teaching Studies Concentration Requirements

Code	Title	Credit Hours
<b>Concentration Requirements</b>		
Choose from the following:		12
CI 71130	MULTICULTURAL EDUCATION: STRATEGIES	
CI 77002	CURRICULUM LEADERSHIP	
CI 77003	TEACHER EDUCATION	
CI 77005	INTERCULTURAL DIMENSIONS OF TEACHING AND LEARNING	
CI 77010	CURRICULUM EVALUATION	
Minimum Total Credit Hours:		12

## Educational Technology Concentration Requirements

Code	Title	Credit Hours
<b>Concentration Requirements</b>		
ETEC 77420	RESEARCH ISSUES IN EDUCATIONAL TECHNOLOGY	3
ETEC 77491	SEMINAR: EDUCATIONAL TECHNOLOGY	3
ETEC 87450	LEARNING WITH EDUCATIONAL TECHNOLOGIES	3
Educational Technology Doctoral-Level Electives (ETEC 70000 or 80000 level)		3
Minimum Total Credit Hours:		12

## Early Childhood Education Concentration Requirements

Code	Title	Credit Hours
<b>Concentration Requirements</b>		
Concentration Electives, choose from the following:		12
ECED 70152	APPLICATION OF SELECTED THEORETICAL PRINCIPLES TO THE DEVELOPMENT OF YOUNG CHILDREN	
ECED 70158	RECONCEPTUALIZING EARLY CHILDHOOD CURRICULUM	
ECED 70163	CONTEMPORARY ISSUES AND TRENDS IN EARLY CHILDHOOD EDUCATION	
ECED 70170	WRITING FOR PUBLICATION AND DISSEMINATION IN EARLY CHILDHOOD EDUCATION	
ECED 80298	RESEARCH IN EARLY CHILDHOOD EDUCATION	
Minimum Total Credit Hours:		12

## Literacy Concentration Requirements

Code	Title	Credit Hours
<b>Concentration Requirements</b>		
CI 87340	RESEARCH IN READING	3
CI 87342	SEMINAR IN READING AND LANGUAGE	3
CI 87343	RESEARCH IN TEACHING OF WRITING	3
CI 87398	RESEARCH IN READING AND LANGUAGE ARTS	3
Minimum Total Credit Hours:		12

## Mathematics Education Concentration Requirements

Code	Title	Credit Hours
<b>Concentration Requirements</b>		
CI 77225	RESEARCH IN MATHEMATICS EDUCATION	3
CI 87791	DOCTORAL SEMINAR IN MATHEMATICS EDUCATION	3
Choose from the following:		6
CI 77095	SPECIAL TOPICS IN CURRICULUM AND INSTRUCTION	
CI 77224	TEACHING MATHEMATICS USING COMPUTERS AND CALCULATORS	
CI 77226	IMPROVING MATHEMATICS INSTRUCTION IN MIDDLE CHILDHOOD	
Minimum Total Credit Hours:		12

## Science Education Concentration Requirements

Code	Title	Credit Hours
<b>Concentration Requirements</b>		
CI 71133	ISSUES AND TRENDS IN ELEMENTARY SCIENCE	3
CI 71134	RESEARCH TRENDS IN SCIENCE EDUCATION	3
CI 71140	CULTURE AND MULTICULTURALISM IN SCIENCE EDUCATION	3
CI 71141	NATURE OF SCIENCE IN SCIENCE EDUCATION	3
Minimum Total Credit Hours:		12

## Social Studies Education Concentration Requirements

Code	Title	Credit Hours
<b>Concentration Requirements</b>		
Choose from the following:		12
CI 71124	EDUCATING THE GOOD CITIZEN	
CI 71125	ISSUES AND TRENDS IN SOCIAL STUDIES EDUCATION	
CI 71126	RESEARCH IN SOCIAL STUDIES TEACHING AND LEARNING	
CI 71127	TECHNOLOGY AND SOCIAL STUDIES	
CI 77095	SPECIAL TOPICS IN CURRICULUM AND INSTRUCTION	
Minimum Total Credit Hours:		12

## Graduation Requirements

An introductory course on fundamentals of curriculum and other additional coursework, as well as research activities that support a student's scholarly interests in the context of doctoral socialization, may be required.

## Comprehensive Examination Requirements

The course phase of study culminates with a written and oral comprehensive examination that is created and evaluated by each doctoral student's prospectus committee. Students choose one of the following options for the written component:

- Eight-hour in-class written examination
- Take-home written examination
- Written examination and portfolio (this option must be selected when submitting the plan of study)

Once doctoral students have passed the comprehensive examination, they organize a dissertation committee, which supervises their dissertation research project.

## Early Childhood Education (PK-3) Additional Licensure Preparation - Non-Degree

**College of Education Health and Human Services**  
 School of Teaching, Learning and Curriculum Studies  
 404 White Hall  
 Kent Campus  
 330-672-2580

www.kent.edu/ehhs/tlcs

## Description

Persons who hold an active license in Special Education, Elementary Education, or Middle Childhood Education may pursue an additional license in Early Childhood Education. This Early Childhood Education (PK-3) Additional Licensure Preparation program is approved by the state of Ohio and adds a Prek-3 license to an already existing valid Ohio license. Students must have an advising appointment with the graduate program coordinator to review former licenses, teaching experiences, employment, as well as field experiences to determine which of the courses and field experiences are necessary (to compliment an already existing valid license held by prospective student). Additionally, a program of study must be filed in the Office of Graduate Student Services, 418 White Hall, prior to application for the licensure.

The non-degree program is not a master's degree program. Students interested in obtaining a teaching license and a master's degree from Kent State University must also be fully admitted into the master's degree program and complete the prescribed coursework on the master's degree prospectus, in addition to courses that are prescribed here for licensure.

### Fully Offered At:

- Kent Campus

## Admission Requirements

- Bachelor's degree
- Official transcript(s)
- Minimum 3.000 GPA
- Goal statement
- Two letters of recommendation
- Questions in Anticipation of Licensure Form
- Evidence of valid 4-year Resident Educator or 5-Year Professional Intervention Specialist, Elementary Education, or Middle Childhood Education Teaching License from the State of Ohio

## Program Learning Outcomes

Completers of this program will be able to:

1. Apply PreK-3 learning standards to students in grades Pre-K through third grade.
2. Demonstrate knowledge of appropriate reading, writing, mathematics, science and social studies standards related to environments for learning, assessment, and home-school, community partnerships.
3. Demonstrate appropriate professional standards related to environments for learning, assessment, and home-school, community partnerships.

## Program Requirements

### Licensure Requirements

Code	Title	Credit Hours
<b>Licensure Requirements</b>		
ECED 50105	APPROPRIATE PHONICS INSTRUCTION FOR KINDERGARTEN AND PRIMARY CHILDREN (min C grade)	3

ECED 50114	TEACHING SCIENCE IN THE EARLY YEARS (min C grade)	3
ECED 50126	DEVELOPMENTAL READING AND WRITING: THE EARLY YEARS (min C grade)	3
ECED 50142	HOME, SCHOOL AND COMMUNITY RELATIONS (min C grade)	3
ECED 50147	TEACHING MATHEMATICS:EARLY YEARS (min C grade)	3
ECED 60102	DEVELOPING A BALANCED LITERACY PROGRAM (min C grade)	3
ECED 60112	HUMANITIES FOR CHILDREN (min C grade)	2
ECED 60113	PRESCHOOL EDUCATION (min C grade)	3
ECED 60145	TEACHING SOCIAL STUDIES: EARLY YEARS (min C grade)	3
ECED 60151	SOCIOMORAL ENVIRONMENT IN EARLY CHILDHOOD EDUCATION (min C grade)	3
ECED 60152	APPLICATION OF SELECTED THEORETICAL PRINCIPLES TO THE DEVELOPMENT OF YOUNG CHILDREN (min C grade)	3
ECED 60160	TYPICAL AND ATYPICAL DEVELOPMENT IN YOUNG CHILDREN (min C grade)	3
ECED 60167	LANGUAGE AND LITERACY:UNDERSTANDING DEVELOPMENT (min C grade)	3
ECED 67292	PRACTICUM AND INTERNSHIP IN EARLY CHILDHOOD EDUCATION (min C grade) <sup>1</sup>	1-5

Minimum Total Credit Hours: 39-43

<sup>1</sup> To be determined by faculty advisor, based on transcript evaluation, prior employment and work history.

### Graduation Requirements

- Minimum grade of C is required in each course for licensure.
- Minimum 3.000 overall GPA
- All coursework for the license must be current; transcript evaluation will occur with advisement and age of prior coursework.
- The preschool internship may be completed during the summer I session. It should precede the primary internship.
- For candidates employed full time in a teaching capacity, an individualized plan for completing the internship will be developed with the faculty advisor. This may include observations, partnering with a primary teacher, and development of a portfolio to demonstrate competency for teaching in the primary grades.

### Licensure Information

Prior to program completion, the candidate must demonstrate proficiencies in the following areas (including but not limited to): Data literacy and analysis, use of research and assessment data, leadership and collaboration, utilizing and supporting appropriate technology for the discipline, and application of professional dispositions, laws and policies, codes of ethics and professional standards appropriate to their field of specialization.

Candidates seeking Ohio teaching licensure are required to pass specific requirements in order to apply for licensure from the Ohio Department of Education (ODE). Students should consult the early childhood education program for specific program requirements and refer to the Ohio Department of Education - Educator Preparation website for more information on assessments specific to licensure type.



Students who do not apply for license within 12 months of program completion may be subject to additional course requirement, based on Ohio licensure standards in force at the time of application.

## Early Childhood Education - B.S.E.

**College of Education Health and Human Services**  
School of Teaching, Learning and Curriculum Studies  
404 White Hall  
Kent Campus  
330-672-2580  
www.kent.edu/ehhs/tlcs

### Description

The Bachelor of Science in Education degree in Early Childhood Education focuses on professional preparation and application of current theory, methods and practices for future teachers of preschool to grade five classrooms. Students form a cohort and complete the five-block sequence of courses while gaining teaching experiences linked to coursework. All students complete field and practicum experiences in diverse settings, including urban and inclusive programs, and accumulate approximately 1,200 clock hours of field experience in preschool and elementary classrooms.

Graduates of the program who pass the State of Ohio Assessment Tests are eligible for Ohio licensure in Early Childhood, which is valid for teaching children, age three through grade five, who are typically developing, at-risk, gifted or who have mild/moderate educational needs.

Graduates also have the opportunity to receive an International Baccalaureate recognition certificate concurrent with the completion of the B.S.E. degree.

### Fully Offered At:

- Kent Campus
- Salem Campus
- Tuscarawas Campus

### Accreditation

National Council for Accreditation of Teacher Education

### Admission Requirements

Admission to this major is selective. As part of an enrollment management plan, students are admitted to the Early Childhood Education major on a selective basis. A maximum of 100 students will be admitted to the major each academic year. A minimum 2.750 overall high school grade point average is required. Students seeking admission to this program must meet all professional requirements for admission to advanced study and have a minimum 2.750 overall GPA in all previous undergraduate coursework. Because of the instituted enrollment management plan, meeting the above requirements does not automatically provide students admittance to the Early Childhood Education major. Faculty will select the most qualified applicants based upon the number of available student spaces, students' standardized test scores, essay, interview and overall GPA. Students should contact the Vacca Office of Student Services, 304 White Hall, during the first year of study to inquire into the procedures associated with admission

to advanced study and selective admission to the Early Childhood Education program.

Students who do not meet the GPA requirement at the time of admission for this major will be admitted to the EHHS General non-degree program until which time they have established a Kent State GPA of 2.750. They may then submit a change of program to declare this major.

**Current Kent State and Transfer Students:** Active Kent State students who wish to change their major must have attempted a minimum 12 credit hours at Kent State and meet all admission criteria listed above to be admitted. Students who have not attempted 12 credit hours at Kent State will be evaluated for admission based on their high school GPA for new students or transfer GPA for transfer students. Transfer students who have not attempted 12 credit hours of college-level coursework at Kent State and/or other institutions will be evaluated based on both their high school GPA and college GPA.

**English Language Proficiency Requirements for International Students:** All international students must provide proof of English language proficiency (unless they meet specific exceptions) by earning a minimum 525 TOEFL score (71 on the Internet-based version), minimum 75 MELAB score, minimum 6.0 IELTS score or minimum 48 PTE Academic score, or by completing the ELS level 112 Intensive Program. For more information on international admission, visit the Office of Global Education's admission website.

### Program Learning Outcomes

Graduates of the program will be able to:

1. Co-construct curriculum as a co-worker with learners and others (parents, families, colleagues and community members) to make sound decisions for learning and teaching experiences, as opposed to being passive receivers of prescribed curriculum.
2. Synthesize conceptual understandings of children, theory, content, technology and sociocultural contexts into meaningful activities and opportunities for learning with all preschool-to-grade five students.
3. Engage in the habit of self-assessment in order to continually uncover unknown possibilities in children's learning, classroom practice, educational theory and one's own teaching identity in the local and global context.
4. Become committed to the children and their learning, the families and the local community while having an awareness of the global context; engage in continuous self-improvement and lifelong learning.
5. Apply skills, knowledge and dispositions to challenge "questionable" policies that limit opportunities for all children.
6. Utilize research and theory to develop varied and effective pedagogies and assessments that will positively impact all students' learning (learning and teaching is a transdisciplinary practice).
7. Advocate as ethical leaders and moral agents striving for social justice,
8. Acknowledges and practices multiple, multi-ethnic, multicultural, multiracial, multi- social and -economic and multilingual perspectives in a global society.

## University Requirements

All students in a bachelor's degree program at Kent State University must complete the following university requirements for graduation.

**NOTE:** University requirements may be fulfilled in this program by specific course requirements. Please see Program Requirements for details.

Destination Kent State: First Year Experience	1
Course is not required for students with 25 transfer credits, excluding College Credit Plus, or age 21+ at time of admission.	
Diversity Domestic/Global (DIVD/DIVG)	2 courses
Students must successfully complete one domestic and one global course, of which one must be from the Kent Core.	
Experiential Learning Requirement (ELR)	varies
Students must successfully complete one course or approved experience.	
Kent Core (see table below)	36-37
Writing-Intensive Course (WIC)	1 course
Students must earn a minimum C grade in the course.	
Upper-Division Requirement	39 (or 42)
Students must successfully complete 39 upper-division (numbered 30000 to 49999) credit hours to graduate. Students in a B.A. and/or B.S. degree in the College of Arts and Sciences must complete 42 upper-division credit hours.	
Total Credit Hour Requirement	120
Some bachelor's degrees require students to complete more than 120 credit hours.	

## Kent Core Requirements

Kent Core Composition (KCOMP)	6
Kent Core Mathematics and Critical Reasoning (KMCR)	3
Kent Core Humanities and Fine Arts (KHUM/KFA) (min one course each)	9
Kent Core Social Sciences (KSS) (must be from two disciplines)	6
Kent Core Basic Sciences (KBS/KLAB) (must include one laboratory)	6-7
Kent Core Additional (KADL)	6
<b>Total Credit Hours:</b>	<b>36-37</b>

## Program Requirements

### Major Requirements

Code	Title	Credit Hours
<b>Major Requirements (courses count in major GPA)</b>		
CULT 29535	EDUCATION IN A DEMOCRATIC SOCIETY (min C grade)	3
ECED 10120	INTRODUCTION TO EARLY CHILDHOOD SERVICES (min C grade)	2
ECED 20101	UNDERSTANDING YOUNG CHILDREN'S DEVELOPMENT (min C grade)	3
ECED 30201	LANGUAGES AND LITERACIES (min C grade)	3
ECED 20102	SOCIAL STUDIES AND THE ARTS IN PRESCHOOL (min C grade)	3
ECED 20103	SEMINAR: PRESCHOOL TEACHING AND LEARNING (min C grade)	3
ECED 20104	PARTNERING WITH FAMILIES FOR EFFECTIVE GUIDANCE (min C grade)	3

ECED 20192	CLINICAL EXPERIENCE IN PRESCHOOL (ELR) (min C grade) <sup>1</sup>	3
ECED 22222	INTEGRATED PRIMARY CURRICULUM (min C grade) <sup>1</sup>	3
ECED 30202	MATHEMATICS AND SCIENCE IN THE EARLY YEARS (min C grade)	3
ECED 40203	CRITICAL INQUIRY: THE IB FRAMEWORK (min C grade)	3
ECED 40301	TEACHING SOCIAL STUDIES IN THE ELEMENTARY YEARS (min C grade)	3
ECED 40302	APPROPRIATE PHONICS INSTRUCTION AND WORD STUDY (min C grade)	3
ECED 40303	TEACHING MATHEMATICS IN THE ELEMENTARY YEARS I (min C grade)	3
ECED 40304	TEACHING SCIENCE IN THE ELEMENTARY YEARS (min C grade)	3
ECED 40125	INQUIRY INTO PROFESSIONAL PRACTICE (min C grade)	3
ECED 40292	INTERNSHIP IN ELEMENTARY SCHOOLS (ELR) <sup>1</sup>	9
ECED 40401	TEACHING SCIENCE AND SOCIAL STUDIES IN THE ELEMENTARY YEARS (min C grade)	3
ECED 40402	DEVELOPMENTAL READING AND WRITING IN THE ELEMENTARY YEARS (min C grade)	3
ECED 40403	DEVELOPING A BALANCED LITERACY PROGRAM IN THE ELEMENTARY YEARS (WIC) (min C grade)	3
ECED 40404	TEACHING MATHEMATICS IN THE ELEMENTARY YEARS II (min C grade)	3
ECED 43333	FAMILY-SCHOOL-COMMUNITY PARTNERSHIPS IN DIVERSE SETTINGS (min C grade) <sup>1</sup>	3
ECED 44444	DEVELOPMENT AND PEDAGOGY IN UPPER ELEMENTARY SCHOOL (min C grade) <sup>1</sup>	3
EPSY 29525	EDUCATIONAL PSYCHOLOGY (min C grade)	3
ETEC 39525	EDUCATIONAL TECHNOLOGY (min C grade)	3
SPED 23000	INTRODUCTION TO EXCEPTIONALITIES (DIVD) (min C grade)	3
<b>Additional Requirements (courses do not count in major GPA)</b>		
COMM 15000	INTRODUCTION TO HUMAN COMMUNICATION (KADL)	3
MATH 14001	BASIC MATHEMATICAL CONCEPTS I (KMCR) (min C grade)	4
MATH 14002	BASIC MATHEMATICAL CONCEPTS II (KMCR) (min C grade)	4
GEOG 17063 or GEOG 17064	WORLD GEOGRAPHY (DIVG) (KSS) GEOGRAPHY OF THE UNITED STATES AND CANADA (DIVD) (KSS)	3
or GEOG 22061	HUMAN GEOGRAPHY (DIVG) (KSS)	
HIST 12070	EARLY AMERICA: FROM PRE-COLONIZATION TO CIVIL WAR AND RECONSTRUCTION (DIVD) (KHUM)	3
UC 10097	DESTINATION KENT STATE: FIRST YEAR EXPERIENCE	1
Science and Lab Elective, choose from the following (min C grade): <sup>2</sup>		3-4
BSCI 10002	LIFE ON PLANET EARTH (KBS)	
BSCI 10003	LABORATORY EXPERIENCE IN BIOLOGY (KBS) (KLAB)	
BSCI 10110	BIOLOGICAL DIVERSITY (KBS) (KLAB)	
GEOL 11040	HOW THE EARTH WORKS (KBS)	
GEOL 11041	HOW THE EARTH WORKS LABORATORY (KBS) (KLAB)	

GEOL 11042	EARTH AND LIFE THROUGH TIME (KBS)	
GEOL 11043	EARTH AND LIFE THROUGH TIME LABORATORY (KBS) (KLAB)	
GEOL 21062	ENVIRONMENTAL EARTH SCIENCE (KBS)	
Physics (PHY) Electives, choose from the following (min C grade): <sup>1</sup>		3-4
PHY 11030	SEVEN IDEAS THAT SHOOK THE UNIVERSE (KBS)	
PHY 21040	PHYSICS IN ENTERTAINMENT AND THE ARTS (KBS)	
PHY 21041	PHYSICS IN ENTERTAINMENT AND THE ARTS LABORATORY (KBS) (KLAB)	
Kent Core Composition (min C grade)		6
Kent Core Humanities and Fine Arts (minimum one course from each)		6
Kent Core Social Sciences (must be from two curricular areas)		3
Minimum Total Credit Hours:		122

<sup>1</sup> Teacher candidates are only permitted to repeat a field experience course once. Please see Repeating Field Experience Courses in Teacher Education Programs policy for details.

<sup>2</sup> A laboratory course must be selected from one of two elective lists.

## Progression Requirement

Students must meet all professional requirements for admission to advanced study.

To manage enrollment and deliver high-quality programs, the faculty will select the most qualified applicants for admission based upon evaluation of standardized test scores of reading, writing and mathematics; academic success (overall GPA) at Kent State University; non-academic criteria and other specific program criteria.

Please be aware that reapplication may be necessary if postponing advanced study coursework or if withdrawn for one year or more.

## Graduation Requirements

Minimum Major GPA	Minimum Overall GPA
2.000	2.750

- A minimum grade of C grade is required in most courses; view the program requirements to see specific courses.

## Licensure Information

Candidates seeking Ohio licensure are required to pass specific assessments in order to apply for licensure. See Ohio Department of Education-Educator Preparation website for more information on assessments specific to licensure type. Taking and passing the licensure tests prior to graduation is encouraged but not required.

Students must apply for State of Ohio Licensure (defined by completion of all licensure program requirements) within 12 months of program completion. After 12 months, applicants must meet state-approved program/licensure requirements that are in effect at the time of application. This means that students who apply after the 12-month deadline may have to take additional coursework if the content, methods courses, program requirements or licensure requirements have changed from the catalog in force.

## Roadmap

This roadmap is a recommended semester-by-semester plan of study for this major. However, courses designated as critical (!) must be completed in the semester listed to ensure a timely graduation.

Semester One		Credits
!	CULT 29535 EDUCATION IN A DEMOCRATIC SOCIETY	3
	GEOG 17063 WORLD GEOGRAPHY (DIVG) (KSS) or or GEOGRAPHY OF THE UNITED STATES AND GEOG 17064 CANADA (DIVD) (KSS) or or HUMAN GEOGRAPHY (DIVG) (KSS) GEOG 22061	3
!	MATH 14001 BASIC MATHEMATICAL CONCEPTS I (KMCR)	4
	UC 10097 DESTINATION KENT STATE: FIRST YEAR EXPERIENCE	1
Kent Core Requirement		3
Kent Core Requirement		3
Credit Hours		17
Semester Two		
Note: minimum 2.750 overall GPA and passing Praxis Core Reading, Writing and Mathematics		
	COMM 15000 INTRODUCTION TO HUMAN COMMUNICATION (KADL)	3
!	ECED 10120 INTRODUCTION TO EARLY CHILDHOOD SERVICES	2
!	MATH 14002 BASIC MATHEMATICAL CONCEPTS II (KMCR)	4
	SPED 23000 INTRODUCTION TO EXCEPTIONALITIES (DIVD)	3
Physics (PHY) Elective		3
Kent Core Requirement		3
Credit Hours		18
Semester Three		
Note: minimum 2.750 overall GPA; apply online for Advanced Study by the second Friday of the term		
!	EPSY 29525 EDUCATIONAL PSYCHOLOGY	3
	HIST 12070 EARLY AMERICA: FROM PRE-COLONIZATION TO CIVIL WAR AND RECONSTRUCTION (DIVD) (KHUM)	3
Science and Lab Elective		3-4
Kent Core Requirement		3
Kent Core Requirement		3
Credit Hours		15
Semester Four		
Requirement: minimum 2.75 overall GPA		
Note: Complete application for student teaching; Block of courses must be taken together in same term; field assignment is part of ECED 20192		
	ECED 20101 UNDERSTANDING YOUNG CHILDREN'S DEVELOPMENT	3
	ECED 20102 SOCIAL STUDIES AND THE ARTS IN PRESCHOOL	3
	ECED 20103 SEMINAR: PRESCHOOL TEACHING AND LEARNING	3
	ECED 20104 PARTNERING WITH FAMILIES FOR EFFECTIVE GUIDANCE	3
	ECED 20192 CLINICAL EXPERIENCE IN PRESCHOOL (ELR)	3
Credit Hours		15
Semester Five		
Requirement: minimum 2.750 overall GPA		
Note: Block of courses must be taken together in same term; there is a field assignment for this semester		

ECED 22222	INTEGRATED PRIMARY CURRICULUM	3
ECED 30201	LANGUAGES AND LITERACIES	3
ECED 30202	MATHEMATICS AND SCIENCE IN THE EARLY YEARS	3
ECED 40203	CRITICAL INQUIRY: THE IB FRAMEWORK	3
ETEC 39525	EDUCATIONAL TECHNOLOGY	3
Credit Hours		15

**Semester Six**

Requirement: minimum 2.750 overall GPA; block of courses must be taken together in same term

Note: Block of courses must be taken together in same term; there is a field assignment for this semester

ECED 40301	TEACHING SOCIAL STUDIES IN THE ELEMENTARY YEARS	3
ECED 40302	APPROPRIATE PHONICS INSTRUCTION AND WORD STUDY	3
ECED 40303	TEACHING MATHEMATICS IN THE ELEMENTARY YEARS I	3
ECED 40304	TEACHING SCIENCE IN THE ELEMENTARY YEARS	3
ECED 43333	FAMILY-SCHOOL-COMMUNITY PARTNERSHIPS IN DIVERSE SETTINGS	3
Credit Hours		15

**Semester Seven**

Note: Apply for graduation; minimum 2.750 GPA required for end of term; Block of courses must be taken together in same term; there is a field assignment for this semester

ECED 40401	TEACHING SCIENCE AND SOCIAL STUDIES IN THE ELEMENTARY YEARS	3
ECED 40402	DEVELOPMENTAL READING AND WRITING IN THE ELEMENTARY YEARS	3
ECED 40403	DEVELOPING A BALANCED LITERACY PROGRAM IN THE ELEMENTARY YEARS (WIC)	3
ECED 40404	TEACHING MATHEMATICS IN THE ELEMENTARY YEARS II	3
ECED 44444	DEVELOPMENT AND PEDAGOGY IN UPPER ELEMENTARY SCHOOL	3
Credit Hours		15

**Semester Eight**

Requirement: minimum 2.750 overall GPA at end of term

Note: Full-time teaching in this term

!	ECED 40125	INQUIRY INTO PROFESSIONAL PRACTICE	3
!	ECED 40292	INTERNSHIP IN ELEMENTARY SCHOOLS (ELR)	9
Credit Hours			12
Minimum Total Credit Hours:			122

## Early Childhood Education - M.A.T.

### College of Education Health and Human Services

School of Teaching, Learning and Curriculum Studies

404 White Hall

Kent Campus

330-672-2580

[www.kent.edu/ehhs/tlcs](http://www.kent.edu/ehhs/tlcs)

## Description

The Master of Arts in Teaching degree in Early Childhood Education is for qualified students who possess at least a baccalaureate in a discipline

other than teacher education. This program leads to Ohio licensure for teaching children in Pre-Kindergarten through grade five. Students have intensive, supervised field experiences in pre-school and kindergarten and primary grades, including those in urban/diverse settings.

This degree program requires 18 months of full-time study, which begins in early June of odd years.

### Fully Offered At:

- Kent Campus

## Accreditation

Council for the Accreditation of Educator Preparation

## Admission Requirements

Applicants will be assessed holistically, considering academic credentials; standardized test scores of reading, writing, and mathematics; academic or professional references; non-academic dimensions; and other specific program criteria.

- Bachelor's degree from an accredited college or university for unconditional admission
- Minimum 3.000 undergraduate GPA on a 4.000 point scale for unconditional admission
- Official transcript(s)
- Praxis Core Reading, Writing and Mathematics test scores<sup>1</sup>
- Goal statement
- Questions in Anticipation of Licensure form
- Supplemental form
- Two letters of recommendation
- Interview
- English language proficiency - all international students must provide proof of English language proficiency (unless they meet specific exceptions) by earning one of the following:
  - Minimum 550 TOEFL PBT score (paper-based version)
  - Minimum 79 TOEFL IBT score (Internet-based version)
  - Minimum 77 MELAB score
  - Minimum 6.5 IELTS score
  - Minimum 58 PTE score
  - Minimum 110 Duolingo English Test score

For more information about graduate admissions, please visit the Graduate Studies admission website. For more information on international admission, visit the Office of Global Education's admission website.

<sup>1</sup>Effective Spring 2021 all initial teacher licensure candidates are required to demonstrate basic competency in reading, writing and mathematics prior to admission. To demonstrate these competencies, students are required to take the Praxis Core tests in Reading, Mathematics, and Writing unless exempted by GRE scores fewer than five years old at the time of application. In order to gain exemption from Praxis CORE requirements, a student must achieve at or above the 50th-percentile scores on the GRE Verbal, Quantitative, and Analytical Writing tests. Students who have not taken the GRE are strongly encouraged to take the Praxis CORE tests to demonstrate these competencies, rather than GRE. Further information is available in the Office of Graduate Student Services, 418 White Hall.

## Competency Test Equivalents:

- Reading: GRE Verbal Reasoning/Praxis CORE Reading
- Mathematics: GRE Quantitative Reasoning, Praxis CORE Mathematics
- Writing: GRE Analytical Writing, Praxis CORE Writing

## Program Learning Outcomes

Graduates of this program will be able to:

1. Co-construct curriculum as a co-worker with learners and others (parents, families, colleagues and community members) to make sound decisions for learning and teaching experiences, as opposed to being passive receivers of prescribed curriculum.
2. Synthesize conceptual understandings of children, theory, content, technology and socio-cultural contexts into meaningful activities and opportunities for learning with all students from pre-kindergarten to grade five.
3. Engage in the habit of self-assessment in order to continually uncover unknown possibilities in children's learning, classroom practice, educational theory and one's own teaching identity in the local and global context.
4. Become committed to the children and their learning, the families and the local community while having an awareness of the global context.
5. Engage in continuous self-improvement and lifelong learning.
6. Apply skills, knowledge and dispositions to challenge "questionable" policies that limit opportunities for all children.
7. Utilize research and theory to develop varied and effective pedagogies and assessments that will positively impact all students' learning (learning and teaching is a transdisciplinary practice).
8. Advocate as ethical leaders and moral agents striving for social justice.
9. Acknowledge and practice multiple, multi-ethnic, multicultural, multiracial, multi- social and -economic and multilingual perspectives in a global society.

## Program Requirements

### Major Requirements

Code	Title	Credit Hours
<b>Major Requirements</b>		
CI 67005	INTERCULTURAL DIMENSIONS OF TEACHING AND LEARNING	3
ECED 50125	INQUIRY INTO PROFESSIONAL PRACTICE	3
ECED 50203	CRITICAL INQUIRY: THE IB FRAMEWORK	3
ECED 50301	TEACHING SOCIAL STUDIES IN K-5 CLASSROOMS	3
ECED 50302	APPROPRIATE PHONICS INSTRUCTION AND WORD STUDY	3
ECED 50303	TEACHING MATHEMATICS IN THE ELEMENTARY YEARS I	3
ECED 50304	TEACHING SCIENCE IN THE ELEMENTARY YEARS	3
ECED 50402	DEVELOPMENTAL READING AND WRITING IN THE ELEMENTARY YEARS	3
ECED 50403	DEVELOPING A BALANCED LITERACY PROGRAM IN THE ELEMENTARY YEARS	3

ECED 50404	TEACHING MATHEMATICS IN THE ELEMENTARY YEARS II	3
ECED 54444	DEVELOPMENT AND PEDAGOGY IN UPPER ELEMENTARY SCHOOL	3
ECED 60103	SOCIAL STUDIES AND THE ARTS IN PRESCHOOL	3
ECED 60201	LANGUAGE AND LITERACIES	3
ECED 60113	PRESCHOOL EDUCATION	3
ECED 60151	SOCIOMORAL ENVIRONMENT IN EARLY CHILDHOOD EDUCATION	3
ECED 60152	APPLICATION OF SELECTED THEORETICAL PRINCIPLES TO THE DEVELOPMENT OF YOUNG CHILDREN	3
ECED 60115	SCIENCE TECHNOLOGY ENGINEERING AND MATHEMATICS FOUNDATIONS FOR EARLY AND MIDDLE CHILDHOOD EDUCATION	3
ECED 63333	FAMILY-SCHOOL-COMMUNITY PARTNERSHIPS IN DIVERSE SETTINGS	3
ECED 67292	PRACTICUM AND INTERNSHIP IN EARLY CHILDHOOD EDUCATION <sup>1</sup>	10
Minimum Total Credit Hours:		64

<sup>1</sup> Teacher candidates are only permitted to repeat a field experience course once. Please see Repeating Field Experience Courses in Teacher Education Programs policy for details.

### Progression Requirements

Students must earn a C or better in all major coursework to advance to final student teaching; however a graduate student who receives more than 8 credit hours of grades lower than B or more than 4 credit hours of grades lower than C is subject to dismissal. To be considered "in good standing," a 3.000 average or better in all graduate and required undergraduate work undertaken at Kent State University should be maintained by graduate students.

### Graduation Requirements

- In order to qualify for graduation, the student must have a 3.000 average in all graduate courses attempted.

## Licensure Information

Candidates seeking Ohio licensure are required to pass specific assessments in order to apply for licensure. Students should consult their advisors for specific program requirements and refer to the Ohio Department of Education-Educator Preparation website for more information on assessments specific to licensure type.

## Early Childhood Education - M.Ed.

**College of Education Health and Human Services**  
 School of Teaching, Learning and Curriculum Studies  
 404 White Hall  
 Kent Campus  
 330-672-2580  
[www.kent.edu/ehhs/tlcs](http://www.kent.edu/ehhs/tlcs)

### Description

The Master of Education degree in Early Childhood Education prepares critically reflective teachers with advanced knowledge in pre-school



through primary multi-disciplinary curriculum. Students are prepared to be democratically accountable leaders, co-decision makers, pedagogical experts and committed professionals in various early childhood realms. The program emphasizes commitment to equitable and caring learning communities.

Ohio endorsements for pre-school and literacy endorsement or generalist (grades four and five) may be embedded in the program. In addition, students have the opportunity to receive an International Baccalaureate (IB) recognition award in the M.Ed. degree.

The Early Childhood Education major includes the following optional concentrations:

- Early Childhood Leadership: Advocacy, Curriculum and Policy
- Globalization and Intercultural Competence
- Science, Technology, Engineering and Mathematics

### Fully Offered At:

- Kent Campus

## Admission Requirements

- Bachelor's degree from an accredited college or university for unconditional admission
- Minimum 3.000 undergraduate GPA on a 4.000 point scale for unconditional admission
- Official transcript(s)
- Goal statement
- Two letters of recommendation
- English language proficiency - all international students must provide proof of English language proficiency (unless they meet specific exceptions) by earning one of the following:
  - Minimum 550 TOEFL PBT score (paper-based version)
  - Minimum 79 TOEFL IBT score (Internet-based version)
  - Minimum 77 MELAB score
  - Minimum 6.5 IELTS score
  - Minimum 58 PTE score
  - Minimum 110 Duolingo English Test score

For more information about graduate admissions, please visit the Graduate Studies admission website. For more information on international admission, visit the Office of Global Education's admission website.

## Program Learning Outcomes

Graduates of this program will be able to:

1. Co-construct curriculum as a co-worker with learners and others (parents, families, colleagues and community members) to make sound decisions for learning and teaching experiences, as opposed to being passive receivers of prescribed curriculum.
2. Synthesize conceptual understandings of children, theory, content, technology and socio-cultural contexts into meaningful activities and opportunities for learning with all students in pre-kindergarten to grade three..
3. Engage in the habit of self-assessment in order to continually uncover unknown possibilities in children's learning, classroom practice,

educational theory and one's own teaching identity in the local and global context.

4. Become committed to the children and their learning, the families and the local community while having an awareness of the global context.
5. Engage in continuous self-improvement and lifelong learning.
6. Apply skills, knowledge and dispositions to challenge "questionable" policies that limit opportunities for all children.
7. Utilize research and theory to develop varied and effective pedagogies and assessments that will positively impact all students' learning (Learning and teaching is a transdisciplinary practice).
8. Advocate as ethical leaders and moral agents striving for social justice.
9. Acknowledge and practice multiple, multi-ethnic, multicultural, multiracial, multi-social, multi-economic and multilingual perspectives in a global society.

## Program Requirements

### Major Requirements

Code	Title	Credit Hours
<b>Major Requirements</b>		
ECED 60152	APPLICATION OF SELECTED THEORETICAL PRINCIPLES TO THE DEVELOPMENT OF YOUNG CHILDREN	3
ECED 67296	INDIVIDUAL INVESTIGATION IN EARLY CHILDHOOD EDUCATION	3
or ECED 67298	RESEARCH IN EARLY CHILDHOOD EDUCATION	
Major Electives, choose from the following:		11
ECED 50093	VARIABLE TITLE WORKSHOP IN EARLY CHILDHOOD EDUCATION	
ECED 50114	TEACHING SCIENCE IN THE EARLY YEARS	
ECED 50123	CRITICAL INQUIRY INTO INTEGRATED CURRICULUM IN THE PRIMARY YEARS	
ECED 50142	HOME, SCHOOL AND COMMUNITY RELATIONS	
ECED 50145	MUSIC AND MOVEMENT IN PRE-PRIMARY EDUCATION	
ECED 50147	TEACHING MATHEMATICS:EARLY YEARS	
ECED 50153	ORGANIZATION AND SUPERVISION OF EARLY CHILDHOOD CENTERS	
ECED 60101	CONSTRUCTIVIST TEACHING IN TRADITIONAL AND NON-TRADITIONAL EARLY CHILDHOOD SETTINGS	
ECED 60102	DEVELOPING A BALANCED LITERACY PROGRAM	
ECED 60110	TEACHING HUMANITIES: EARLY YEARS	
ECED 60113	PRESCHOOL EDUCATION	
ECED 60151	SOCIOMORAL ENVIRONMENT IN EARLY CHILDHOOD EDUCATION	
ECED 60158	RECONCEPTUALIZING EARLY CHILDHOOD CURRICULUM	
ECED 60167	LANGUAGE AND LITERACY:UNDERSTANDING DEVELOPMENT	
ECED 67292	PRACTICUM AND INTERNSHIP IN EARLY CHILDHOOD EDUCATION	
ECED 67296	INDIVIDUAL INVESTIGATION IN EARLY CHILDHOOD EDUCATION	
ECED 67298	RESEARCH IN EARLY CHILDHOOD EDUCATION	
Additional electives with advisor approval		

**Additional Requirements or Concentrations**

Choose from the following: 15

Additional Requirements for Students Not Declaring a Concentration

Early Childhood Leadership: Advocacy, Curriculum and Policy Concentration

Globalization and Intercultural Competence Concentration

Science, Technology, Engineering and Mathematics Concentration

Minimum Total Credit Hours: 32

**Additional Requirements for Students Not Declaring a Concentration**

Code	Title	Credit Hours
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**Major Requirements**

ECED 60115	SCIENCE TECHNOLOGY ENGINEERING AND MATHEMATICS FOUNDATIONS FOR EARLY AND MIDDLE CHILDHOOD EDUCATION	3
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or ECED 60158 RECONCEPTUALIZING EARLY CHILDHOOD CURRICULUM

or ECED 60169 UNDERSTANDING EMERGENT BILINGUAL AND IMMIGRANT STUDENTS AND THEIR FAMILIES

ECED 60116	SCIENCE TECHNOLOGY ENGINEERING AND MATH INQUIRY FOR EARLY CHILDHOOD EDUCATION	3
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or ECED 60163 CONTEMPORARY ISSUES AND TRENDS IN EARLY CHILDHOOD EDUCATION

or ECED 60171 TEACHING EMERGENT BILINGUAL AND IMMIGRANTS IN THE EARLY YEARS

Additional Major Electives, choose from the following: <sup>1</sup> 9

ECED 50093 VARIABLE TITLE WORKSHOP IN EARLY CHILDHOOD EDUCATION

ECED 50114 TEACHING SCIENCE IN THE EARLY YEARS

ECED 50123 CRITICAL INQUIRY INTO INTEGRATED CURRICULUM IN THE PRIMARY YEARS

ECED 50142 HOME, SCHOOL AND COMMUNITY RELATIONS

ECED 50147 TEACHING MATHEMATICS:EARLY YEARS

ECED 50153 ORGANIZATION AND SUPERVISION OF EARLY CHILDHOOD CENTERS

ECED 60101 CONSTRUCTIVIST TEACHING IN TRADITIONAL AND NON-TRADITIONAL EARLY CHILDHOOD SETTINGS

ECED 60102 DEVELOPING A BALANCED LITERACY PROGRAM

ECED 60110 TEACHING HUMANITIES: EARLY YEARS

ECED 60113 PRESCHOOL EDUCATION

ECED 60151 SOCIOMORAL ENVIRONMENT IN EARLY CHILDHOOD EDUCATION

ECED 60158 RECONCEPTUALIZING EARLY CHILDHOOD CURRICULUM

ECED 60167 LANGUAGE AND LITERACY:UNDERSTANDING DEVELOPMENT

ECED 67292 PRACTICUM AND INTERNSHIP IN EARLY CHILDHOOD EDUCATION

ECED 67296 INDIVIDUAL INVESTIGATION IN EARLY CHILDHOOD EDUCATION

ECED 67298 RESEARCH IN EARLY CHILDHOOD EDUCATION

Additional electives with advisor approval

Minimum Total Credit Hours: 15

<sup>1</sup> Courses fulfilling major program requirements (listed above) may not be used to also fulfill the requirements for the additional major electives.

**Early Childhood Leadership: Advocacy, Curriculum and Policy concentration Requirements**

Code	Title	Credit Hours
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**Concentration Requirements**

ECED 60101	CONSTRUCTIVIST TEACHING IN TRADITIONAL AND NON-TRADITIONAL EARLY CHILDHOOD SETTINGS	3
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ECED 60158	RECONCEPTUALIZING EARLY CHILDHOOD CURRICULUM	3
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ECED 60163	CONTEMPORARY ISSUES AND TRENDS IN EARLY CHILDHOOD EDUCATION	3
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ECED 60170	WRITING FOR PUBLICATION AND DISSEMINATION IN EARLY CHILDHOOD EDUCATION	3
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Advisor-Approved Concentration Elective 3

Minimum Total Credit Hours: 15

**Globalization and Intercultural Competence concentration Requirements**

Code	Title	Credit Hours
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**Concentration Requirements**

ECED 60169	UNDERSTANDING EMERGENT BILINGUAL AND IMMIGRANT STUDENTS AND THEIR FAMILIES	3
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ECED 60171	TEACHING EMERGENT BILINGUAL AND IMMIGRANTS IN THE EARLY YEARS	3
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Concentration Electives, choose from the following with advisor approval: 3-6

CI 61130 MULTICULTURAL EDUCATION: STRATEGIES

CI 67005 INTERCULTURAL DIMENSIONS OF TEACHING AND LEARNING

ECED 50123 CRITICAL INQUIRY INTO INTEGRATED CURRICULUM IN THE PRIMARY YEARS

English Education Electives, choose from the following 3-6

ENG 63001 METHODOLOGY OF TESL

ENG 63033 THEORIES IN SECOND LANGUAGE ACQUISITION

ENG 63038 TEACHING LITERATURE AND CULTURE

ENG 63047 HERITAGE LANGUAGES AND SECOND LANGUAGE LEARNING

Additional elective with advisor approval

Minimum Total Credit Hours: 15

**Science, Technology, Engineering and Mathematics concentration Requirements**

Code	Title	Credit Hours
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**Concentration Requirements**

ECED 60115	SCIENCE TECHNOLOGY ENGINEERING AND MATHEMATICS FOUNDATIONS FOR EARLY AND MIDDLE CHILDHOOD EDUCATION	3
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ECED 60116	SCIENCE TECHNOLOGY ENGINEERING AND MATH INQUIRY FOR EARLY CHILDHOOD EDUCATION	3
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Mathematics Education Electives, choose from the following with advisor approval:	3-6
CI 67095 SPECIAL TOPICS IN CURRICULUM AND INSTRUCTION	
CI 67224 TEACHING MATHEMATICS USING COMPUTERS AND CALCULATORS	
CI 67225 RESEARCH IN MATHEMATICS EDUCATION	
Science Education Electives, choose from the following with advisor approval:	3-6
CI 61141 NATURE OF SCIENCE IN SCIENCE EDUCATION	
CI 67240 INTRODUCTION TO ENVIRONMENTAL EDUCATION	
MCED 56645 CRITICAL INQUIRY AND INTEGRATION: SCIENCE AND SOCIAL STUDIES, GRADE 4	
MCED 57745 CRITICAL INQUIRY AND INTEGRATION: SCIENCE AND SOCIAL STUDIES, GRADE 5	
Additional elective with advisor approval	
Minimum Total Credit Hours:	15

## Graduation Requirements

Students are guided by faculty in the development of a program of study that satisfies both individual professional goals and expectations of the department, college and university. All students are expected to complete an exit project that involves a practicum or action research project.

Students completing the M.Ed. in Early Childhood Education must take at least 32 credit hours for completion.

# Early Childhood Education Pre-Kindergarten (3-5 years) Endorsement Preparation - Non-Degree

## College of Education Health and Human Services

School of Teaching, Learning and Curriculum Studies

404 White Hall

Kent Campus

330-672-2580

[www.kent.edu/ehhs/tlcs](http://www.kent.edu/ehhs/tlcs)

## Description

The non-degree Early Childhood Education Pre-Kindergarten (3-5 years) Endorsement Preparation program is for teaching learners ages three through five and is limited to those holding an elementary certificate, or special certificate for education of the handicapped, or early childhood or intervention specialist license. Students must have an advising appointment with the graduate program coordinator to review former licenses, teaching experiences, employment, as well as field experiences to determine which of the courses and field experiences are necessary (in compliment to already existing valid licenses held by prospective students). Additionally, a program of study must be filed in the Office of Graduate Student Services, 418 White Hall, prior to application for the licensure.

The non-degree program is not a master's degree program. Students interested in obtaining a teaching endorsement and a master's degree

from Kent State University must also be fully admitted into the master's degree program and complete the prescribed coursework on the master's degree prospectus, in addition to courses that are prescribed here for an endorsement.

## Fully Offered At:

- Kent Campus

## Admission Requirements

- Bachelor's degree
- Official transcript(s)
- Minimum 3.000 GPA
- Goal statement
- Two letters of recommendation
- Questions in Anticipation of Licensure Form
- Evidence of valid elementary certificate, or special certificate for education of the handicapped, or early childhood or intervention specialist license from the State of Ohio.

## Program Learning Outcomes

Completers of this program will be able to apply early childhood learning standards including knowing and understanding characteristics of young children, creating safe and appropriate environments for learning, working with diverse families, performing appropriate assessments, and understanding and applying ethical principles for the profession.

## Program Requirements

### Licensure Requirements

Code	Title	Credit Hours
<b>Licensure Requirements</b>		
Electives, choose from the following: (min C grade)		6
ECED 50142	HOME, SCHOOL AND COMMUNITY RELATIONS	
ECED 50153	ORGANIZATION AND SUPERVISION OF EARLY CHILDHOOD CENTERS	
ECED 60113	PRESCHOOL EDUCATION	
ECED 67292	PRACTICUM AND INTERNSHIP IN EARLY CHILDHOOD EDUCATION	
Electives, choose from the following: (min C grade)		9
ECED 50147	TEACHING MATHEMATICS:EARLY YEARS	
ECED 50105	APPROPRIATE PHONICS INSTRUCTION FOR KINDERGARTEN AND PRIMARY CHILDREN	
ECED 50114	TEACHING SCIENCE IN THE EARLY YEARS	
ECED 50126	DEVELOPMENTAL READING AND WRITING: THE EARLY YEARS	
ECED 60102	DEVELOPING A BALANCED LITERACY PROGRAM	
ECED 60112	HUMANITIES FOR CHILDREN	
ECED 60145	TEACHING SOCIAL STUDIES: EARLY YEARS	
ECED 60151	SOCIOMORAL ENVIRONMENT IN EARLY CHILDHOOD EDUCATION	
ECED 60152	APPLICATION OF SELECTED THEORETICAL PRINCIPLES TO THE DEVELOPMENT OF YOUNG CHILDREN	
ECED 60160	TYPICAL AND ATYPICAL DEVELOPMENT IN YOUNG CHILDREN	

ECED 60167 LANGUAGE AND LITERACY: UNDERSTANDING  
DEVELOPMENT

Minimum Total Credit Hours: 15

## Graduation Requirements

- Minimum grade of C or better is required in each course for licensure.
- All coursework for the license must be current; transcript evaluation will occur with advisement and age of prior coursework.
- The preschool internship may be completed during the summer I session.
- Minimum credit hours will be completed after the advising session to determine which part of the Pre-K profession is most beneficial for additional licensing.
- For candidates employed full time in a teaching capacity, an individualized plan for completing the internship will be developed with the faculty advisor. This may include observations, partnering with a preschool teacher, and development of a portfolio to demonstrate competency for teaching in the preschool years.

## Licensure Information

Prior to program completion, the candidate must demonstrate proficiencies in the following areas (including but not limited to): Data literacy and analysis, use of research and assessment data, leadership and collaboration, utilizing and supporting appropriate technology for the discipline, and application of professional dispositions, laws and policies, codes of ethics and professional standards appropriate to their field of specialization.

Candidates seeking Ohio teaching endorsement are required to pass specific requirements in order to apply for an endorsement from the Ohio Department of Education (ODE). Students should consult the Early Childhood Education program for specific program requirements and refer to the Ohio Department of Education - Educator Preparation website for more information on assessments specific to endorsement.

Students who do not apply for endorsement within 12 months of program completion may be subject to additional course requirement, based on standards in force at the time of application.

## Early Childhood Generalist (Grades 4-5) Endorsement Preparation - Graduate Non-Degree

### College of Education Health and Human Services

School of Teaching, Learning and Curriculum Studies

404 White Hall

Kent Campus

330-672-2580

[www.kent.edu/ehhs/tlcs](http://www.kent.edu/ehhs/tlcs)

## Description

The Early Childhood Generalist (Grades 4-5) Endorsement Preparation non-degree program is valid for teaching all core academic content areas in grades four and five and may be added to an Early Childhood P-3 teaching license.

The non-degree program is not a master's degree program. Students interested in obtaining a teaching endorsement and a master's degree from Kent State University must also be fully admitted into the master's degree program and complete the prescribed coursework on the master's degree prospectus, in addition to courses that are prescribed here for an endorsement.

## Fully Offered At:

- Kent Campus

## Admission Requirements

- Bachelor's degree
- Official transcript(s)
- Minimum 3.000 GPA
- Goal statement
- Two letters of recommendation
- Questions in Anticipation of Licensure Form
- Evidence of valid Early Childhood P-3 teaching license from the State of Ohio

## Program Learning Outcomes

Graduates of this program will be able to:

- Demonstrate the learning standards in social studies, mathematics, science and writing and reading for grades four and five.

## Program Requirements

### Endorsement Requirements

Code	Title	Credit Hours
<b>Endorsement Requirements</b>		
CI 50093	VARIABLE TITLE WORKSHOP IN CURRICULUM AND INSTRUCTION	1
CI 57504	TEACHING READING AND WRITING IN MIDDLE GRADES	3
HDFS 51093	VARIABLE TITLE WORKSHOP IN HUMAN DEVELOPMENT AND FAMILY STUDIES (min C grade)	1
MCED 50045	TEACHING MATHEMATICS IN THE INTERMEDIATE YEARS, GRADES 4-5 (min C grade)	3
MCED 56645	CRITICAL INQUIRY AND INTEGRATION: SCIENCE AND SOCIAL STUDIES, GRADE 4 (min C grade)	3
MCED 57745	CRITICAL INQUIRY AND INTEGRATION: SCIENCE AND SOCIAL STUDIES, GRADE 5 (min C grade)	3
Minimum Total Credit Hours:		14

## Graduation Requirements

- Minimum 3.000 overall GPA

## Licensure Information

Prior to program completion, the candidate must demonstrate proficiencies in the following areas (including but not limited to): Data literacy and analysis, use of research and assessment data, leadership and collaboration, utilizing and supporting appropriate technology for the

discipline, and application of professional dispositions, laws and policies, codes of ethics and professional standards appropriate to their field of specialization.

Candidates seeking Ohio teaching endorsement are required to pass specific requirements in order to apply for endorsement from the Ohio Department of Education (ODE). Students should consult the Early Childhood Education program for specific program requirements and refer to the Ohio Department of Education - Educator Preparation website for more information on assessments specific to endorsement.

Students who do not apply for endorsement within 12 months of program completion may be subject to additional course requirement, based on standards in force at the time of application.

## Early Childhood Generalist (Grades 4-5) Endorsement Preparation - Undergraduate Non-Degree

### College of Education Health and Human Services

School of Teaching, Learning and Curriculum Studies

404 White Hall

Kent Campus

330-672-2580

[www.kent.edu/ehhs/tlcs](http://www.kent.edu/ehhs/tlcs)

## Description

Early Childhood Generalist endorsement non-degree program is valid for teaching all core academic content areas in grades four and five and may be added to an Early Childhood P-3 teaching license.

The non-degree program is not a master's degree program. Students interested in obtaining a teaching endorsement and a master's degree from Kent State University must also be fully admitted into the master's degree program and complete the prescribed coursework on the master's degree prospectus, in addition to courses that are prescribed here for an endorsement.

### Fully Offered At:

- Kent Campus

## Admission Requirements

- Bachelor's degree
- Official transcript(s)
- Minimum 3.000 overall GPA
- Goal statement
- Two letters of recommendation
- Questions in Anticipation of Licensure Form
- Evidence of valid Early Childhood P-3 teaching license from the State of Ohio.

## Program Learning Outcomes

Graduates of this program will be able to:

- Demonstrate the learning standards in social studies, mathematics, science and writing and reading for grades four and five.

## Program Requirements

### Endorsement Requirements

Code	Title	Credit Hours
<b>Endorsement Requirements (min C grade is required in all courses)</b>		
CI 40093	VARIABLE TITLE WORKSHOP IN CURRICULUM AND INSTRUCTION	1
CI 47504	TEACHING READING AND WRITING IN MIDDLE GRADES	3
HDFS 41093	VARIABLE TOPIC WORKSHOP:HUMAN DEVELOPMENT AND FAMILY STUDIES	1
MCED 40045	TEACHING MATHEMATICS IN THE INTERMEDIATE YEARS, GRADES 4-5	3
MCED 46645	CRITICAL INQUIRY AND INTEGRATION: SCIENCE AND SOCIAL STUDIES, GRADE 4	3
MCED 47745	CRITICAL INQUIRY AND INTEGRATION: SCIENCE AND SOCIAL STUDIES, GRADE 5	3
Minimum Total Credit Hours:		14

### Graduation Requirements

- Minimum 3.000 overall GPA

### Licensure Information

Prior to program completion, the candidate must demonstrate proficiencies in the following areas (including but not limited to): Data literacy and analysis, use of research and assessment data, leadership and collaboration, utilizing and supporting appropriate technology for the discipline, and application of professional dispositions, laws and policies, codes of ethics and professional standards appropriate to their field of specialization.

Candidates seeking Ohio teaching endorsement are required to pass specific requirements in order to apply for endorsement from the Ohio Department of Education (ODE). Students should consult the Early Childhood Education program for specific program requirements and refer to the Ohio Department of Education - Educator Preparation website for more information on assessments specific to endorsement.

Students who do not apply for endorsement within 12 months of program completion may be subject to additional course requirement, based on standards in force at the time of application.

## Earth Science - B.S.E.

### College of Education Health and Human Services

School of Teaching, Learning and Curriculum Studies

404 White Hall

Kent Campus

330-672-2580

[www.kent.edu/ehhs/tlcs](http://www.kent.edu/ehhs/tlcs)

## Description

The Bachelor of Science in Education degree in Earth Science prepares students for teacher licensure in earth science, grades seven to 12. Students take a broad range of courses in biology, chemistry, geography and physics and specialize in geology content. Most content coursework is completed during students' first three years; methods coursework begins during the spring of their third year. In the final year of the



program, students complete remaining content courses, science teaching methods courses and a year-long placement in a local school district, which concludes with 13 weeks of student teaching in the spring. Earth Science students are encouraged to meet with their advisor early in their program because many courses must be sequenced carefully.

### Fully Offered At:

- Kent Campus

## Accreditation

National Council for Accreditation of Teacher Education

## Admission Requirements

Admission to this major is selective. Admission to the college does not guarantee admission to a major and/or admission to professional coursework for a selective admission program. To be admitted directly into a teacher education program, it is required that new freshmen have a 2.750 high school GPA. Students who do not meet the GPA requirement at the time of admission for this major will be admitted to the EHHS General non-degree program until which time they have established a Kent State GPA of 2.750. They may then submit a change of program to declare this major.

**Current Kent State and Transfer Students:** Active Kent State students who wish to change their major must have attempted a minimum 12 credit hours at Kent State and meet all admission criteria listed above to be admitted. Students who have not attempted 12 credit hours at Kent State will be evaluated for admission based on their high school GPA for new students or transfer GPA for transfer students. Transfer students who have not attempted 12 credit hours of college-level coursework at Kent State and/or other institutions will be evaluated based on both their high school GPA and college GPA.

**English Language Proficiency Requirements for International Students:** All international students must provide proof of English language proficiency (unless they meet specific exceptions) by earning a minimum 525 TOEFL score (71 on the Internet-based version), minimum 75 MELAB score, minimum 6.0 IELTS score or minimum 48 PTE Academic score, or by completing the ELS level 112 Intensive Program. For more information on international admission, visit the Office of Global Education's admission website.

## Program Learning Outcomes

Graduates of this program will be able to:

1. Plan multiple lessons using a variety of inquiry approaches that demonstrate their knowledge and understanding of how to engage all students in learning science.
2. Plan a learning environment and learning experiences for all students that demonstrate chemical safety, safety procedures, and the ethical treatment of living organisms within their licensure area.
3. Plan fair and equitable assessment strategies to analyze student learning and to evaluate if the science learning goals are met.

## University Requirements

All students in a bachelor's degree program at Kent State University must complete the following university requirements for graduation.

**NOTE:** University requirements may be fulfilled in this program by specific course requirements. Please see Program Requirements for details.

Destination Kent State: First Year Experience	1
Course is not required for students with 25 transfer credits, excluding College Credit Plus, or age 21+ at time of admission.	
Diversity Domestic/Global (DIVD/DIVG)	2 courses
Students must successfully complete one domestic and one global course, of which one must be from the Kent Core.	
Experiential Learning Requirement (ELR)	varies
Students must successfully complete one course or approved experience.	
Kent Core (see table below)	36-37
Writing-Intensive Course (WIC)	1 course
Students must earn a minimum C grade in the course.	
Upper-Division Requirement	39 (or 42)
Students must successfully complete 39 upper-division (numbered 30000 to 49999) credit hours to graduate. Students in a B.A. and/or B.S. degree in the College of Arts and Sciences must complete 42 upper-division credit hours.	
Total Credit Hour Requirement	120
Some bachelor's degrees require students to complete more than 120 credit hours.	

## Kent Core Requirements

Kent Core Composition (KCMP)	6
Kent Core Mathematics and Critical Reasoning (KMCR)	3
Kent Core Humanities and Fine Arts (KHUM/KFA) (min one course each)	9
Kent Core Social Sciences (KSS) (must be from two disciplines)	6
Kent Core Basic Sciences (KBS/KLAB) (must include one laboratory)	6-7
Kent Core Additional (KADL)	6
<b>Total Credit Hours:</b>	<b>36-37</b>

## Program Requirements

### Major Requirements

Code	Title	Credit Hours
<b>Major Requirements (courses count in major GPA) (min C grade required in all courses)</b>		
BSCI 10110	BIOLOGICAL DIVERSITY (KBS) (KLAB)	4
BSCI 10120	BIOLOGICAL FOUNDATIONS (KBS) (KLAB)	4
CHEM 10060	GENERAL CHEMISTRY I (KBS)	4
CHEM 10061	GENERAL CHEMISTRY II (KBS)	4
CHEM 10062	GENERAL CHEMISTRY I LABORATORY (KBS) (KLAB)	1
CHEM 10063	GENERAL CHEMISTRY II LABORATORY (KBS) (KLAB)	1
GEOG 31062	FUNDAMENTALS OF METEOROLOGY	3
GEOG 41073	CONSERVATION OF NATURAL RESOURCES	3
GEOG 11040	HOW THE EARTH WORKS (KBS)	3

GEOL 11041	HOW THE EARTH WORKS LABORATORY (KBS) (KLAB)	1
GEOL 11042	EARTH AND LIFE THROUGH TIME (KBS)	3
GEOL 11043	EARTH AND LIFE THROUGH TIME LABORATORY (KBS) (KLAB)	1
GEOL 21080	ALL ABOUT THE OCEANS (KBS)	3
GEOL 23063	EARTH MATERIALS I	4
GEOL 31070	EARTH MATERIALS II (WIC)	4
or GEOL 32066	GEOMORPHOLOGY	
PHY 13001	GENERAL COLLEGE PHYSICS I (KBS)	4
PHY 13002	GENERAL COLLEGE PHYSICS II (KBS)	4
PHY 13021	GENERAL COLLEGE PHYSICS LABORATORY I (KBS) (KLAB)	1
PHY 13022	GENERAL COLLEGE PHYSICS LABORATORY II (KBS) (KLAB)	1
PHY 21430	FRONTIERS IN ASTRONOMY (KBS)	3
<b>Additional Requirements (courses do not count in major GPA)</b>		
ADED 20000	TOPICS IN SOCIAL JUSTICE IN TEACHING AND LEARNING (min C grade) <sup>1</sup>	3
ADED 32142	PRINCIPLES OF TEACHING ADOLESCENTS (WIC) (min C grade) <sup>1</sup>	3
ADED 32277	TEACHING SCIENCE IN SECONDARY SCHOOLS (min C grade) <sup>1</sup>	3
ADED 42277	TOPICS IN SECONDARY SCHOOL SCIENCE TEACHING (min C grade)	3
ADED 42292	FIELD WORK PRACTICUM (ELR) (min C grade) <sup>1</sup>	3
ADED 42392	SECONDARY STUDENT TEACHING (ELR) <sup>1</sup>	9
ADED 49525	INQUIRY INTO PROFESSIONAL PRACTICE (min C grade)	3
CI 47330	READING AND WRITING IN ADOLESCENCE/ADULTHOOD (min C grade)	3
CULT 29535	EDUCATION IN A DEMOCRATIC SOCIETY (min C grade)	3
EPSY 29525	EDUCATIONAL PSYCHOLOGY (min C grade)	3
ETEC 39525	EDUCATIONAL TECHNOLOGY (min C grade)	3
MATH 10041	INTRODUCTORY STATISTICS (KMCR)	3-4
or MATH 30011	BASIC PROBABILITY AND STATISTICS	
MATH 11010	ALGEBRA FOR CALCULUS (KMCR)	3
MATH 11022	TRIGONOMETRY (KMCR)	3
MATH 12002	ANALYTIC GEOMETRY AND CALCULUS I (KMCR)	5
PHIL 11001	INTRODUCTION TO PHILOSOPHY (DIVG) (KHUM)	3
PSYC 11762	GENERAL PSYCHOLOGY (DIVD) (KSS)	3
SOC 12050	INTRODUCTION TO SOCIOLOGY (DIVD) (KSS)	3
SPED 23000	INTRODUCTION TO EXCEPTIONALITIES (DIVD) (min C grade)	3
UC 10097	DESTINATION KENT STATE: FIRST YEAR EXPERIENCE	1
Kent Core Composition (min C grade)		6
Kent Core Humanities and Fine Arts (minimum one from each)		6

Minimum Total Credit Hours: 134

<sup>1</sup> Teacher candidates are only permitted to repeat a field experience course once. Please see Repeating Field Experience Courses in Teacher Education Programs policy for details.

## Progression Requirements

Students must meet all professional requirements for admission to advanced study. To be admitted, students must display evidence of the following

- Adequate communication skills
- Sound content area knowledge (language arts, mathematics, science or social studies)
- Basic understanding of the teaching profession
- Basic understanding of adolescents
- Dispositions aligned with the conceptual framework of the College of Education, Health, and Human Services, including being open-minded, flexible, caring and responsible.

Faculty will select the most qualified applicants based on an interview; letters of recommendation; GPA<sup>1</sup>; Praxis Core scores; and performance in English and communication studies coursework.

Applicants to the program must have experience working with young adults in a supervisory capacity, such as tutoring, camp counseling, volunteer work or related experience. Students should contact the College of Education, Health, and Human Services' Vacca Office of Student Services, 304 White Hall, during the first year of study to inquire about the procedures and criteria associated with admission to advanced study.

<sup>1</sup> Undergraduate students who have not completed a minimum of 12 Kent State University credit hours will be evaluated for advanced study and professional phase based on their high school GPA for new freshmen or transfer GPA for transfer students.

## Graduation Requirements

Minimum Major GPA	Minimum Overall GPA
2.600	2.750

## Double Majors/Dual Degrees

Students seeking to declare an additional teacher education major in the B.S.E. degree (double major) or in a different degree (dual degree) may have the double major/dual degree approved as long as the following requirements are met:

1. Approval is received from the academic unit administrating each major. A program of study for those interested in pursuing a double major must be approved in writing by faculty from each major area prior to admission to advanced study.
2. All required content courses are completed for each major
3. All required method courses are completed for each major.
4. Separate practicum and inquiry courses are completed for each major as listed below:
  - a. ADED 42292 (or the equivalent required by the major outside the college)
  - b. ADED 49525 (or the equivalent required by the major outside the college)
5. Students who have two majors from among the following only need to take one ADED 42392, consisting of a 16-week classroom experience involving both subject areas: Life Sciences, Earth Science, Physical Sciences, Integrated Science, Integrated Mathematics, Life Science/Chemistry, Integrated Social Studies and/or Integrated Language Arts.
6. Students who have a second major not included in the list above (#5) will have their student teaching requirements determined by

faculty from both program areas at the time the program of study is developed, with a minimum 16 weeks spent in the classroom.

### **Licensure information**

Candidates seeking Ohio licensure are required to pass specific assessments in order to apply for licensure. See Ohio Department of Education-Educator Preparation website for more information on assessments specific to licensure type. Taking and passing the licensure tests prior to graduation is encouraged but not required.

Students must apply for State of Ohio Licensure (defined by completion of all licensure program requirements) within 12 months of program completion. After 12 months, applicants must meet State approved program/licensure requirements that are in effect at the time of application. This means that students who apply after the 12 month deadline may have to take additional coursework if the content, methods courses, program requirements, or licensure requirements have changed from the catalog in force.

## Roadmap

This roadmap is a recommended semester-by-semester plan of study for this major. However, courses designated as critical (!) must be completed in the semester listed to ensure a timely graduation.

Semester One		Credits
	BSCI 10110 BIOLOGICAL DIVERSITY (KBS) (KLAB)	4
!	GEOL 11040 HOW THE EARTH WORKS (KBS)	3
!	GEOL 11041 HOW THE EARTH WORKS LABORATORY (KBS) (KLAB)	1
	MATH 11010 ALGEBRA FOR CALCULUS (KMCR)	3
	PSYC 11762 GENERAL PSYCHOLOGY (DIVD) (KSS)	3
	UC 10097 DESTINATION KENT STATE: FIRST YEAR EXPERIENCE	1
Kent Core Requirement		3
Credit Hours		18
Semester Two		
Requirement: Successful completion of Praxis Core Reading, Writing and Mathematics		
!	CULT 29535 EDUCATION IN A DEMOCRATIC SOCIETY	3
!	EPSY 29525 EDUCATIONAL PSYCHOLOGY	3
	GEOL 11042 EARTH AND LIFE THROUGH TIME (KBS)	3
	GEOL 11043 EARTH AND LIFE THROUGH TIME LABORATORY (KBS) (KLAB)	1
	MATH 11022 TRIGONOMETRY (KMCR)	3
	SOC 12050 INTRODUCTION TO SOCIOLOGY (DIVD) (KSS)	3
Kent Core Requirement		3
Credit Hours		19
Semester Three		
Requirement: minimum 2.750 overall GPA by end of term; minimum 2.600 major GPA		
	ADED 20000 TOPICS IN SOCIAL JUSTICE IN TEACHING AND LEARNING	3
	CHEM 10060 GENERAL CHEMISTRY I (KBS)	4
	CHEM 10062 GENERAL CHEMISTRY I LABORATORY (KBS) (KLAB)	1
!	MATH 12002 ANALYTIC GEOMETRY AND CALCULUS I (KMCR)	5
Kent Core Requirement		3
Credit Hours		16
Semester Four		
Requirement: minimum 2.750 overall GPA by end of term; minimum 2.600 major GPA		
	CHEM 10061 GENERAL CHEMISTRY II (KBS)	4
	CHEM 10063 GENERAL CHEMISTRY II LABORATORY (KBS) (KLAB)	1
	GEOL 21080 ALL ABOUT THE OCEANS (KBS)	3
	MATH 10041 INTRODUCTORY STATISTICS (KMCR)	3
	or BASIC PROBABILITY AND STATISTICS	
	MATH 30011	
	PHIL 11001 INTRODUCTION TO PHILOSOPHY (DIVG) (KHUM)	3
Kent Core Requirement		3
Credit Hours		17
Semester Five		
Requirement: minimum 2.750 overall GPA; minimum 2.600 major GPA		
!	ADED 32142 PRINCIPLES OF TEACHING ADOLESCENTS (WIC)	3
	GEOG 31062 FUNDAMENTALS OF METEOROLOGY	3
	GEOL 23063 EARTH MATERIALS I	4

	ETEC 39525 EDUCATIONAL TECHNOLOGY	3
	PHY 13001 GENERAL COLLEGE PHYSICS I (KBS)	4
	PHY 13021 GENERAL COLLEGE PHYSICS LABORATORY I (KBS) (KLAB)	1
Credit Hours		18
Semester Six		
Requirement: minimum 2.750 overall GPA; minimum 2.600 major GPA		
!	ADED 32277 TEACHING SCIENCE IN SECONDARY SCHOOLS	3
	BSCI 10120 BIOLOGICAL FOUNDATIONS (KBS) (KLAB)	4
	GEOG 41073 CONSERVATION OF NATURAL RESOURCES	3
	GEOL 31070 EARTH MATERIALS II (WIC)	4
	or GEOMORPHOLOGY	
	GEOL 32066	
	PHY 13002 GENERAL COLLEGE PHYSICS II (KBS)	4
	PHY 13022 GENERAL COLLEGE PHYSICS LABORATORY II (KBS) (KLAB)	1
Credit Hours		19
Semester Seven		
Requirement: minimum 2.750 overall GPA; minimum 2.600 major GPA		
!	ADED 42277 TOPICS IN SECONDARY SCHOOL SCIENCE TEACHING	3
!	ADED 42292 FIELD WORK PRACTICUM (ELR)	3
	CI 47330 READING AND WRITING IN ADOLESCENCE/ADULTHOOD	3
	PHY 21430 FRONTIERS IN ASTRONOMY (KBS)	3
	SPED 23000 INTRODUCTION TO EXCEPTIONALITIES (DIVD)	3
Credit Hours		15
Semester Eight		
Requirement: minimum 2.750 overall GPA; minimum 2.600 major GPA		
	ADED 42392 SECONDARY STUDENT TEACHING (ELR)	9
!	ADED 49525 INQUIRY INTO PROFESSIONAL PRACTICE	3
Credit Hours		12
Minimum Total Credit Hours:		134

## Educational Technology - M.Ed.

**College of Education Health and Human Services**  
School of Teaching, Learning and Curriculum Studies  
404 White Hall  
Kent Campus  
330-672-2580  
[www.kent.edu/ehhs/tlcs](http://www.kent.edu/ehhs/tlcs)

## Description

The Master of Education degree in Educational Technology prepares students to design, develop and use a variety of technologies in school classrooms, in training facilities or in other educational settings. Students gain core educational technology knowledge and skills and then specialize in an area within the field.

The Educational Technology major comprises the following optional concentrations:

- The **Computer Technology Endorsement Preparation** concentration allows students with an existing Ohio teaching license to obtain

the computer technology endorsement with the M.Ed. degree in Educational Technology by completing the Computer Technology Endorsement Preparation concentration coursework, including a 100-hour practicum. The endorsement allows teachers to teach computer applications in the classroom or assume technology leadership positions in a school or at the district level. The endorsement cannot be obtained as a stand-alone license.

- The **Computer Science Endorsement Preparation** concentration allows students with an existing Ohio teaching license to obtain the computer science endorsement with the M.Ed. degree in Educational Technology by completing the Computer Science Endorsement Preparation concentration coursework, including a 100-hour practicum. The endorsement prepares computer science educators. The endorsement cannot be obtained as a stand-alone license.

### Fully Offered At:

- Online
- Kent Campus

## Admission Requirements

- Bachelor's degree from an accredited college or university for unconditional admission
- Minimum 3.000 undergraduate GPA on a 4.000 point scale for unconditional admission
- Official transcript(s)
- Goal statement
- Two letters of recommendation from academic and professional references
- Computer Science and Computer Technology concentrations require evidence of a valid 4-year Resident Educator or 5-year Professional State of Ohio teaching license.
- English language proficiency - all international students must provide proof of English language proficiency (unless they meet specific exceptions) by earning one of the following:
  - Minimum 550 TOEFL PBT score (paper-based version)
  - Minimum 79 TOEFL IBT score (Internet-based version)
  - Minimum 77 MELAB score
  - Minimum 6.5 IELTS score
  - Minimum 58 PTE score
  - Minimum 110 Duolingo English Test score

For more information about graduate admissions, please visit the Graduate Studies admission website. For more information on international admission, visit the Office of Global Education's admission website.

## Program Learning Outcomes

Graduates of the M.Ed. Educational Technology major will be able to:

1. Demonstrate knowledge about different types of hardware and of a variety of different software applications.
2. Conduct literature reviews to examine issues associated with technology and learning.
3. Develop, implement and troubleshoot web-based, interactive multimedia educational programs.
4. Design, develop and evaluate educational materials using various technology tools.

5. Apply principles of message design to the development of educational materials.
6. Identify critical issues related to the field of educational technology.
7. Advocate for the appropriate use of technology in educational settings, including providing equitable access to technology resources for all students.
8. Apply principles of change management, organizational development, technological diffusion and adoption and project management to effecting change in an organization.
9. Practice the systematic evaluation of educational materials that use technology, based upon the objectives previously established for the unit or lesson.
10. Assess the effectiveness of the use of technology for instruction, with a variety of assessment techniques.
11. Identify trends in the field, and apply those trends to current situations.

In addition, graduates of the Computer Science concentration will be able to:

1. Demonstrate knowledge of computer science content and model important principles and concepts.
2. Demonstrate knowledge of and proficiency in data representation and abstraction
3. Effectively design, develop, and test algorithms
4. Demonstrate knowledge of digital devices, systems and networks
5. Demonstrate an understanding of the role computer science plays in its impact in the modern world

## Program Requirements

### Major Requirements

Code	Title	Credit Hours
<b>Major Requirements</b>		
ETEC 57427	TECHNOLOGY AND LEARNING	3
ETEC 57400	TRENDS IN EDUCATIONAL TECHNOLOGY	3
ETEC 57403	INSTRUCTIONAL DESIGN	3
ETEC 67420	RESEARCH ISSUES IN EDUCATIONAL TECHNOLOGY	3
Thesis or Non-Thesis Option, choose from the following:		9
<i>Thesis Option</i>		
ETEC 60199	THESIS I	
Electives		
<i>Non-Thesis Option</i>		
ETEC 67492	PRACTICUM AND PORTFOLIO <sup>1</sup>	
Electives <sup>2</sup>		
<b>Additional Requirements or Concentrations</b>		
Choose from the following:		9-12
Additional Requirements for Students Not Declaring a Concentration		
Computer Science Endorsement Preparation Concentration		
Computer Technology Endorsement Preparation Concentration		
Minimum Total Credit Hours:		30-33

<sup>1</sup> Students in an endorsement preparation concentration must take at least 3 credit hours of ETEC 67492.



<sup>2</sup> Students in the Computer Science Endorsement Preparation concentration fulfill elective requirement ETEC 67434 and ETEC 67402.

### ADDITIONAL REQUIREMENTS FOR STUDENTS NOT DECLARING A CONCENTRATION

Code	Title	Credit Hours
<b>Major Requirements</b>		
Specialization Electives <sup>1</sup>		9
Minimum Total Credit Hours:		9

<sup>1</sup> Students may choose coursework in various specializations, including immersive technologies for learning, management of educational technologies, online and blended learning and teaching, designing instructional and performance solutions, or others.

### Computer Science Endorsement Preparation Concentration requirements

Code	Title	Credit Hours
<i>Concentration Requirements</i>		
CS 61002	ALGORITHMS AND PROGRAMMING I	4
CS 61003	ALGORITHMS AND PROGRAMMING II	4
CS 61004	OPERATING SYSTEMS AND ARCHITECTURE	4
Minimum Total Credit Hours:		12

<sup>1</sup> All courses are required. Two courses may be used to fulfill Non-Thesis Elective major requirements.

### computer technology endorsement preparation concentration requirements

Code	Title	Credit Hours
<i>Concentration Requirements</i>		
ETEC 67402	MANAGING SCHOOL TECHNOLOGY CENTERS AND PROGRAMS	3
ETEC 67425	MANAGING TECHNOLOGICAL CHANGE	3
ETEC 67426	MANAGING SCHOOL TECHNOLOGIES	3
Minimum Total Credit Hours:		9

### Graduation Requirements

- No more than one-half of a graduate student’s coursework may be taken in 50000-level courses.

### Dual Degree with M.L.I.S. degree in Library and Information Science

Student have the opportunity to complete a dual degree program with the M.Ed. degree in Educational Technology and the M.L.I.S. degree in School Library Media K-12. A separate application must be submitted for each program. Students can view admission requirements for each program on their respective catalog page.

The M.Ed./M.L.I.S. dual degree program leads to a multi-age initial licensure in school library media. This program prepares students to work in all types of libraries, including school libraries. The program of

study includes professional educational requirements, along with library science and educational technology courses.

### Dual Degree Requirements

Code	Title	Credit Hours
<b>Major Requirements</b>		
ADED 62145	PRINCIPLES OF SECONDARY TEACHING	3
CI 67310	THEORY AND PRACTICE IN THE TEACHING OF READING	3
CI 67330	READING IN CONTENT AREAS	3
EPSY 65524	LEARNING THEORIES	3
LIS 60020	INFORMATION ORGANIZATION	3
LIS 60030	PEOPLE IN THE INFORMATION ECOLOGY	3
LIS 60050	RESEARCH AND ASSESSMENT IN LIBRARY AND INFORMATION SCIENCE	3
LIS 60607	SCHOOL LIBRARY MANAGEMENT	3
LIS 60618	INFORMATION LITERACY INITIATIVES AND INSTRUCTION	3
LIS 60624	CATALOGING FOR SCHOOL LIBRARIES	3
LIS 60626	ENGAGING TEENS	3
LIS 60629	ENGAGING SCHOOL-AGE CHILDREN	3
LIS 60630	REFERENCE SOURCES AND SERVICES FOR YOUTH	3
LIS 60892	CULMINATING EXPERIENCE FOR DUAL DEGREE	6
SPED 63200	INTRODUCTION TO EXCEPTIONALITIES	3
Dual Degree Electives, choose from the following:		9
ETEC 57400	TRENDS IN EDUCATIONAL TECHNOLOGY	
ETEC 57403	INSTRUCTIONAL DESIGN	
ETEC 57427	TECHNOLOGY AND LEARNING	
ETEC 67420	RESEARCH ISSUES IN EDUCATIONAL TECHNOLOGY	
ETEC 67425	MANAGING TECHNOLOGICAL CHANGE	
ETEC 67426	MANAGING SCHOOL TECHNOLOGIES	
ETEC 67434	EMERGING TECHNOLOGIES FOR EDUCATION	
LIS 60675	YOUTH LITERATURE IN THE DIGITAL REALM	
Additional Library and Information Science (LIS) courses are accepted		
Minimum Total Credit Hours:		57

### Graduation Requirements

- Students in M.Ed. degree have six years from the term of first enrollment to complete the degree.
- Students are responsible for completing licensure paperwork requirements through the College of Education, Health and Human Services near the end of or at the conclusion of their M.L.I.S. degree program. Exam administered by the Evaluation Systems Group of Pearson is required for licensure.

### Licensure Information

Candidates seeking Ohio licensure are required to pass specific assessments in order to apply for licensure. Students should consult their advisors for specific program requirements and refer to the Ohio Department of Education-Educator Preparation website. for more information on assessments specific to licensure type.

# Integrated Language Arts - B.S.E.

## College of Education Health and Human Services

School of Teaching, Learning and Curriculum Studies

404 White Hall

Kent Campus

330-672-2580

www.kent.edu/ehhs/tlcs

## Description

The Bachelor of Science in Education degree in Integrated Language Arts prepares students for teacher licensure in integrated language arts (reading, writing, speaking and listening) for grades seven to 12.

The combination of content and methods courses provides a strong foundation for graduates of the program, who will be licensed to teach English/language arts, journalism, communication and theater. (Please note that those with Ohio licensure in integrated language arts are able to teach theater for grades seven and eight only.) The program uniquely features a methods course devoted to the teaching of new media.

## Fully Offered At:

- Kent Campus

## Accreditation

National Council for Accreditation of Teacher Education

## Admission Requirements

Admission to this major is selective. Admission to the college does not guarantee admission to a major and/or admission to professional coursework for a selective admission program. To be admitted directly into a teacher education program, it is required that new freshmen have a 2.750 high school GPA. Students who do not meet the GPA requirement at the time of admission for this major will be admitted to the EHHS General non-degree program until which time they have established a Kent State GPA of 2.750. They may then submit a change of program to declare this major.

**Current Kent State and Transfer Students:** Active Kent State students who wish to change their major must have attempted a minimum 12 credit hours at Kent State and meet all admission criteria listed above to be admitted. Students who have not attempted 12 credit hours at Kent State will be evaluated for admission based on their high school GPA for new students or transfer GPA for transfer students. Transfer students who have not attempted 12 credit hours of college-level coursework at Kent State and/or other institutions will be evaluated based on both their high school GPA and college GPA.

### English Language Proficiency Requirements for International Students:

All international students must provide proof of English language proficiency (unless they meet specific exceptions) by earning a minimum 525 TOEFL score (71 on the Internet-based version), minimum 75 MELAB score, minimum 6.0 IELTS score or minimum 48 PTE Academic score, or by completing the ELS level 112 Intensive Program. For more information on international admission, visit the Office of Global Education's admission website.

Graduates of this program will be able to:

1. Plan and implement research-based instruction in the teaching of reading, literature, language, and composition.
2. Implement response-centered literacy instruction that is culturally relevant and sustaining.
3. Implement fair and equitable assessment strategies to analyze students' literacy learning.
4. Engage in reflective practice and pursue continued professional growth and collaboration with colleagues.

## University Requirements

All students in a bachelor's degree program at Kent State University must complete the following university requirements for graduation.

**NOTE:** University requirements may be fulfilled in this program by specific course requirements. Please see Program Requirements for details.

Destination Kent State: First Year Experience	1
Course is not required for students with 25 transfer credits, excluding College Credit Plus, or age 21+ at time of admission.	
Diversity Domestic/Global (DIVD/DIVG)	2 courses
Students must successfully complete one domestic and one global course, of which one must be from the Kent Core.	
Experiential Learning Requirement (ELR)	varies
Students must successfully complete one course or approved experience.	
Kent Core (see table below)	36-37
Writing-Intensive Course (WIC)	1 course
Students must earn a minimum C grade in the course.	
Upper-Division Requirement	39 (or 42)
Students must successfully complete 39 upper-division (numbered 30000 to 49999) credit hours to graduate. Students in a B.A. and/or B.S. degree in the College of Arts and Sciences must complete 42 upper-division credit hours.	
Total Credit Hour Requirement	120
Some bachelor's degrees require students to complete more than 120 credit hours.	

## Kent Core Requirements

Kent Core Composition (KCOMP)	6
Kent Core Mathematics and Critical Reasoning (KMCR)	3
Kent Core Humanities and Fine Arts (KHUM/KFA) (min one course each)	9
Kent Core Social Sciences (KSS) (must be from two disciplines)	6
Kent Core Basic Sciences (KBS/KLAB) (must include one laboratory)	6-7
Kent Core Additional (KADL)	6
<b>Total Credit Hours:</b>	<b>36-37</b>

## Program Requirements

### Major Requirements

Code	Title	Credit Hours
<b>Major Requirements (courses count in major GPA) (min C grade required in all courses)</b>		
COMM 15000	INTRODUCTION TO HUMAN COMMUNICATION (KADL)	3

or COMM 26000	CRITICISM OF PUBLIC DISCOURSE (DIVD) (KHUM)		THEA 11100	MAKING THEATRE: CULTURE AND PRACTICE	
ENG 20021	INTRODUCTION TO CREATIVE WRITING	3	THEA 11303	THE ART OF ACTING	
or ENG 43092	TEACHING POETRY IN THE SCHOOLS (ELR)		THEA 11722	FUNDAMENTALS OF PRODUCTION I: SCENERY, STAGECRAFT AND SOUND	
ENG 21054	INTRODUCTION TO SHAKESPEARE (KHUM)	3	THEA 11723	FUNDAMENTALS OF PRODUCTION LABORATORY I: SCENERY	
ENG 22071	GREAT BOOKS TO 1700 (KHUM)	3	THEA 11724	FUNDAMENTALS OF PRODUCTION LABORATORY II: PROPS AND SCENIC ART	
or ENG 22072	GREAT BOOKS SINCE 1700 (KHUM)		THEA 11732	FUNDAMENTALS OF PRODUCTION II: COSTUMES, LIGHTING AND PROJECTIONS	
ENG 24001	INTRODUCTION TO LITERARY STUDY	3	THEA 11733	FUNDAMENTALS OF PRODUCTION LABORATORY III: COSTUMES	
ENG 24002	INTRODUCTION TO COMPOSITION THEORY	3	THEA 11734	FUNDAMENTALS OF PRODUCTION LABORATORY IV: LIGHTING, SOUND AND PROJECTIONS	
ENG 31003	LINGUISTICS	3	THEA 21016	MAKEUP FOR STAGE AND SCREEN	
ENG 34004	BRITISH LITERATURE, 1800-1900	3	Communication Studies (COMM) Upper-Division Electives (30000 or 40000 level)		
or ENG 34005	BRITISH AND IRISH LITERATURE, 1900-PRESENT		English (ENG) Upper-Division Electives (30000 or 40000 level)		
JMC 20001	MEDIA, POWER AND CULTURE (DIVD) (KSS)	3	Journalism and Mass Communications (JMC) Upper-Division Electives (30000 or 40000 level)		
JMC 26001	WRITING ACROSS PLATFORMS	3	Foreign Language Electives (two semesters)		
JMC 47003	TEACHING HIGH SCHOOL JOURNALISM	3	<b>Additional Requirements (courses do not count in major GPA)</b>		
THEA 11000	THE ART OF THE THEATRE (DIVG) (KFA)	3	ADED 20000	TOPICS IN SOCIAL JUSTICE IN TEACHING AND LEARNING (min C grade) <sup>1</sup>	3
British Literature Elective, choose from the following:		3	ADED 32142	PRINCIPLES OF TEACHING ADOLESCENTS (WIC) (min C grade) <sup>1</sup>	3
ENG 25001	LITERATURE IN ENGLISH I		ADED 42292	FIELD WORK PRACTICUM (ELR) (min C grade) <sup>1</sup>	3
ENG 34001	MEDIEVAL LITERATURE		ADED 42392	SECONDARY STUDENT TEACHING (ELR) <sup>1</sup>	9
ENG 34002	BRITISH LITERATURE, 1500-1660		ADED 43315	TEACHING LITERATURE IN THE SECONDARY SCHOOLS (min C grade)	3
ENG 34003	BRITISH LITERATURE, 1660-1800		ADED 43325	MULTI-MODAL LITERACIES IN THE SECONDARY CLASSROOM (min C grade) <sup>1</sup>	3
Reading Against the Grain Elective, choose from the following:		3	ADED 43335	TEACHING LANGUAGE AND COMPOSITION (min C grade) <sup>1</sup>	3
ENG 21001	INTRODUCTION TO ETHNIC LITERATURE OF THE UNITED STATES (DIVD)		ADED 49525	INQUIRY INTO PROFESSIONAL PRACTICE (min C grade)	3
ENG 21002	INTRODUCTION TO WOMEN'S LITERATURE (DIVD)		CULT 29535	EDUCATION IN A DEMOCRATIC SOCIETY (min C grade)	3
ENG 21003	INTRODUCTION TO LGBT LITERATURE (DIVD)		EPSY 29525	EDUCATIONAL PSYCHOLOGY (min C grade)	3
ENG 33010	AFRICAN-AMERICAN LITERATURE TO 1900		ETEC 39525	EDUCATIONAL TECHNOLOGY (min C grade)	3
ENG 33012	MODERN AFRICAN-AMERICAN LITERATURE		MCED 40007	TEACHING READING WITH LITERATURE IN MIDDLE CHILDHOOD (min C grade) <sup>1</sup>	3
ENG 33013	PAN-AFRICAN WOMEN'S LITERATURE (DIVG)		SPED 23000	INTRODUCTION TO EXCEPTIONALITIES (DIVD) (min C grade)	3
ENG 33014	AFRICAN-AMERICAN WOMEN'S LITERATURE		UC 10097	DESTINATION KENT STATE: FIRST YEAR EXPERIENCE	1
ENG 33015	AFRICAN LITERATURES (DIVG)		Kent Core Composition (min B grade)		6
ENG 34011	WORLD LITERATURE IN ENGLISH (DIVG)		Kent Core Mathematics and Critical Reasoning		3
ENG 34021	WOMEN'S LITERATURE (DIVD)		Kent Core Social Sciences (must be from two curricular areas)		3
ENG 35301	LESBIAN, GAY, BISEXUAL AND TRANSGENDER: CRITICAL PERSPECTIVES (DIVD)		Kent Core Basic Sciences (must include one laboratory)		6-7
U.S. Literature Electives, choose from the following:		6	Kent Core Additional		3
ENG 33001	U.S. LITERATURE TO 1865		Minimum Total Credit Hours:		120
ENG 33002	U.S. LITERATURE FROM 1865 TO 1945				
ENG 33003	U.S. LITERATURE FROM 1945 TO PRESENT				
Linguistics Elective, choose from the following:		3			
COMM 35852	INTERCULTURAL COMMUNICATION (DIVG)				
ENG 31001	FUNDAMENTAL ENGLISH GRAMMAR				
ENG 31002	HISTORY OF THE ENGLISH LANGUAGE				
ENG 31004	LEXICOLOGY/LEXICOGRAPHY				
ENG 31008	GRAMMAR FOR TEACHING ENGLISH AS A SECOND/FOREIGN LANGUAGE				
ENG 41001	SOCIOLINGUISTICS IN SCHOOLING (DIVD) (WIC)				
Major Electives, choose from the following:		2			
COMM 21000	COMMUNICATION GRAMMAR REVIEW				
COMM 35912	GENDER AND COMMUNICATION (DIVD)				
COMM 45007	FREEDOM OF SPEECH				
ENG 25002	LITERATURE IN ENGLISH II				
JMC 12001	ELEMENTARY PHOTOGRAPHY				
JMC 22000	PHOTOGRAPHY BASICS				
JMC 40022	FILM AS COMMUNICATION				
SOC 42568	RACE AND ETHNIC STUDIES (DIVD)				

<sup>1</sup> Teacher candidates are only permitted to repeat a field experience course once. Please see Repeating Field Experience Courses in Teacher Education Programs policy for details.

## Progression Requirements

Students must meet all professional requirements for admission to advanced study. To be admitted, students must display evidence of the following:

- Adequate communication skills
- Sound content area knowledge (language arts, mathematics, science or social studies)
- Basic understanding of the teaching profession
- Basic understanding of adolescents
- Dispositions aligned with the conceptual framework of the College of Education, Health and Human Services, including being open-minded, flexible, caring and responsible

Faculty will select the most qualified applicants based on an interview; letters of recommendation; GPA<sup>1</sup>; Praxis Core scores; and performance in English and communication studies coursework.

Applicants must have experience working with young adults in a supervisory capacity, such as tutoring, camp counseling, volunteer work or related experience. Students should contact the College of Education, Health, and Human Services' Vacca Office of Student Services, 304 White Hall, during the first year of study to inquire about the procedures and criteria associated with admission to advanced study.

<sup>1</sup> Undergraduate students who have not completed a minimum of 12 Kent State University credit hours will be evaluated for advanced study and professional phase based on their high school GPA for new freshmen or transfer GPA for transfer students.

## Graduation Requirements

Minimum Major GPA	Minimum Overall GPA
2.600	2.750

## Double Majors/Dual Degrees

Students seeking to declare an additional teacher education major in the B.S.E. degree (double major) or in a different degree (dual degree) may have the double major/dual degree approved as long as the following requirements are met:

1. Approval is received from the academic unit administrating each major. A program of study for those interested in pursuing a double major must be approved in writing by faculty from each major area prior to admission to advanced study.
2. All required content courses are completed for each major
3. All required methods courses are completed for each major.
4. Separate practicum and inquiry courses are completed for each major as listed below:
  - a. ADED 42292 (or the equivalent required by the major outside the college)
  - b. ADED 49525 (or the equivalent required by the major outside the college)
5. Students who have two majors from among the following only need to take ADED 42357, consisting of a 16-week classroom experience involving both subject areas: Life Sciences, Earth Science, Physical Sciences, Integrated Science, Integrated Mathematics, Life Science/Chemistry, Integrated Social Studies and/or Integrated Language Arts.

6. Students who have a second major not included in the list above (#5) will have their student teaching requirements determined by faculty from both program areas at the time the program of study is developed, with a minimum 16 weeks spent in the classroom.

## Licensure information

Candidates seeking Ohio licensure are required to pass specific assessments in order to apply for licensure. See Ohio Department of Education-Educator Preparation website for more information on assessments specific to licensure type. Taking and passing the licensure tests prior to graduation is encouraged but not required.

Students must apply for State of Ohio Licensure (defined by completion of all licensure program requirements) within 12 months of program completion. After 12 months, applicants must meet State approved program/licensure requirements that are in effect at the time of application. This means that students who apply after the 12 month deadline may have to take additional coursework if the content, methods courses, program requirements, or licensure requirements have changed from the catalog in force.

## Roadmap

This roadmap is a recommended semester-by-semester plan of study for this major. However, courses designated as critical (!) must be completed in the semester listed to ensure a timely graduation.

Semester One		Credits
!	JMC 20001 MEDIA, POWER AND CULTURE (DIVD) (KSS)	3
	THEA 11000 THE ART OF THE THEATRE (DIVG) (KFA)	3
	UC 10097 DESTINATION KENT STATE: FIRST YEAR EXPERIENCE	1
	Kent Core Requirement	3
	Kent Core Requirement	3
	Kent Core Requirement	3
Credit Hours		16
Semester Two		
Requirement: Successful completion of Praxis Core Reading, Writing and Mathematics		
	COMM 15000 INTRODUCTION TO HUMAN COMMUNICATION or (KADL)	3
	COMM 26000 or CRITICISM OF PUBLIC DISCOURSE (DIVD) (KHUM)	
!	CULT 29535 EDUCATION IN A DEMOCRATIC SOCIETY	3
	ENG 22071 GREAT BOOKS TO 1700 (KHUM) or GREAT BOOKS SINCE 1700 (KHUM)	3
	ENG 22072	
	Kent Core Requirement	3
	Kent Core Requirement	3
Credit Hours		15
Semester Three		
Requirement: minimum 2.75 overall GPA by end of term; minimum 2.600 major GPA		
	ENG 21054 INTRODUCTION TO SHAKESPEARE (KHUM)	3
!	EPSY 29525 EDUCATIONAL PSYCHOLOGY	3
	SPED 23000 INTRODUCTION TO EXCEPTIONALITIES (DIVD)	3
	Kent Core Requirement	3
	Kent Core Requirement	3
Credit Hours		15
Semester Four		
Requirement: minimum 2.750 overall GPA; minimum 2.600 major GPA		
	ADED 20000 TOPICS IN SOCIAL JUSTICE IN TEACHING AND LEARNING	3
	ENG 24001 INTRODUCTION TO LITERARY STUDY	3
	ENG 24002 INTRODUCTION TO COMPOSITION THEORY	3
	ENG 25001 LITERATURE IN ENGLISH I or MEDIEVAL LITERATURE or BRITISH LITERATURE, 1500-1660 or BRITISH LITERATURE, 1660-1800	3
	ENG 34001 or BRITISH LITERATURE, 1500-1660 or BRITISH LITERATURE, 1660-1800	
	ENG 34002	
	ENG 34003	
	ETEC 39525 EDUCATIONAL TECHNOLOGY	3
Credit Hours		15
Semester Five		
Requirement: minimum 2.750 overall GPA; minimum 2.600 major GPA		
!	ADED 32142 PRINCIPLES OF TEACHING ADOLESCENTS (WIC)	3

	ENG 20021 INTRODUCTION TO CREATIVE WRITING or TEACHING POETRY IN THE SCHOOLS (ELR)	3
	ENG 43092	
	ENG 31003 LINGUISTICS	3
	ENG 33001 U.S. LITERATURE TO 1865 or U.S. LITERATURE FROM 1865 TO 1945	3
	ENG 33002 or U.S. LITERATURE FROM 1945 TO PRESENT	
	ENG 33003	
	JMC 26001 WRITING ACROSS PLATFORMS	3
!	MCED 40007 TEACHING READING WITH LITERATURE IN MIDDLE CHILDHOOD	3
Credit Hours		18
Semester Six		
Requirement: minimum 2.750 overall GPA; minimum 2.600 major GPA		
!	ADED 43325 MULTI-MODAL LITERACIES IN THE SECONDARY CLASSROOM	3
!	ADED 43335 TEACHING LANGUAGE AND COMPOSITION	3
	ENG 34004 BRITISH LITERATURE, 1800-1900 or BRITISH AND IRISH LITERATURE, 1900-PRESENT	3
	ENG 34005	
	JMC 47003 TEACHING HIGH SCHOOL JOURNALISM	3
	Linguistics Elective	3
Credit Hours		15
Semester Seven		
Requirement: minimum 2.750 overall GPA; minimum 2.600 major GPA		
!	ADED 42292 FIELD WORK PRACTICUM (ELR)	3
!	ADED 43315 TEACHING LITERATURE IN THE SECONDARY SCHOOLS	3
	ENG 33001 U.S. LITERATURE TO 1865 or U.S. LITERATURE FROM 1865 TO 1945	3
	ENG 33002 or U.S. LITERATURE FROM 1945 TO PRESENT	
	ENG 33003	
	Reading Against the Grain Elective	3
	Major Elective	2
Credit Hours		14
Semester Eight		
Requirement: minimum 2.750 overall GPA; minimum 2.600 major GPA		
	ADED 42392 SECONDARY STUDENT TEACHING (ELR)	9
!	ADED 49525 INQUIRY INTO PROFESSIONAL PRACTICE	3
Credit Hours		12
Minimum Total Credit Hours:		120

## Integrated Language Arts Additional Licensure Preparation - Non-Degree

College of Education Health and Human Services  
 School of Teaching, Learning and Curriculum Studies  
 404 White Hall  
 Kent Campus  
 330-672-2580  
[www.kent.edu/ehhs/tlcs](http://www.kent.edu/ehhs/tlcs)



## Description

The Integrated Language Arts Additional Licensure Preparation non-degree program prepares students to obtain an additional teacher license in integrated language arts (reading, writing, speaking and listening) for grades 7-12. Completion of the coursework is a prerequisite to being recommended by Kent State University for licensure, which is granted by the Ohio Department of Education. This non-degree program cannot be used for students seeking initial licensure.

The non-degree program is not a master's degree program. Students interested in a master's degree at Kent State must be fully admitted into and complete the requirements for the master's program, in addition to courses that are prescribed for additional licensure.

### Fully Offered At:

- Kent Campus

## Accreditation

National Council for Accreditation of Teacher Education

## Admission Requirements

Applicants will be assessed holistically, considering academic credentials; standardized test scores of reading, writing and mathematics; academic or professional references; non-academic dimensions; and other specific program criteria.

- Bachelor's degree from an accredited college or university
- Minimum 3.000 overall undergraduate GPA on a 4.000 point scale
- Official transcript(s)
- Goal statement
- Two letters of recommendation
- Questions in Anticipation of Licensure Form
- Evidence of valid four-year Resident Educator or five-year Professional State of Ohio teaching licensure

For more information about graduate admission, please visit the Graduate Studies website.

## Program Learning Outcomes

Completers of this non-degree program will be able to:

1. Plan and implement research-based instruction in the teaching of reading, literature, language and composition.
2. Implement response-centered literacy instruction that is culturally relevant and sustaining.
3. Implement fair and equitable assessment strategies to analyze students' literacy learning.
4. Engage in reflective practice and pursue continued professional growth and collaboration with colleagues.

## Program Requirements

### Licensure Requirements

Code	Title	Credit Hours
<b>Licensure Requirements</b>		
ADED 53315	TEACHING LITERATURE IN THE SECONDARY SCHOOLS	3

CI 67312	TEACHING WRITING AS A PROCESS	3
EHHS 50092	PRACTICAL EXPERIENCE IN EDUCATION, HEALTH AND HUMAN SERVICES	1
Minimum Total Credit Hours:		7

## Graduation Requirements

- Minimum 3.000 overall GPA
- Additional Coursework: An analysis of additional content-area coursework required at the post-undergraduate level will be completed before entering into the program, and a Plan of Study will be created based on transcript analysis and current licensure requirements by the Ohio Department of Education. A minimum C grade is required in each of these courses. This coursework would be in addition to requirements for the Integrated Language Arts non-degree program.
- Minimum 2.600 content area GPA required for Adolescence to Young Adult 7-12 licensure.

## Licensure Information

Prior to program completion, the candidate must demonstrate proficiencies in the following areas (including but not limited to): Data literacy and analysis, use of research and assessment data, leadership and collaboration, utilizing and supporting appropriate technology for the discipline, and application of professional dispositions, laws and policies, codes of ethics and professional standards appropriate to their field of specialization.

Candidates seeking Ohio licensure are required to pass the OAE Content Knowledge Assessment for each teaching field in order to apply for licensure. Students should consult their advisors for specific program requirements and refer to the Ohio Department of Education-Educator Preparation website for more information on assessments specific to licensure type. Students who do not apply for license within 12 months of program completion may be subject to additional course requirements, based on Ohio licensure standards in force at the time of application.

## Integrated Mathematics - B.S.E.

**College of Education Health and Human Services**  
 School of Teaching, Learning and Curriculum Studies  
 404 White Hall  
 Kent Campus  
 330-672-2580  
[www.kent.edu/ehhs/tlcs](http://www.kent.edu/ehhs/tlcs)

## Description

The Bachelor of Science in Education degree in Integrated Mathematics prepares students for teacher licensure in grades 7-12. Students complete most of their content coursework during their first three years; methods coursework typically begins during the spring of their third year. During the final year of the program, candidates complete remaining content courses, mathematics teaching methods courses and a year-long placement in a local school district, which concludes with 13 weeks of student teaching in the spring.

## Fully Offered At:

- Kent Campus

## Accreditation

National Council for Accreditation of Teacher Education

## Admission Requirements

Admission to this major is selective. Admission to the college does not guarantee admission to a major and/or admission to professional coursework for a selective admission program. To be admitted directly into a teacher education program, it is required that new freshmen have a 2.750 high school GPA. Students who do not meet the GPA requirement at the time of admission for this major will be admitted to the EHHS General non-degree program until which time they have established a Kent State GPA of 2.750. They may then submit a change of program to declare this major.

**Current Kent State and Transfer Students:** Active Kent State students who wish to change their major must have attempted a minimum 12 credit hours at Kent State and meet all admission criteria listed above to be admitted. Students who have not attempted 12 credit hours at Kent State will be evaluated for admission based on their high school GPA for new students or transfer GPA for transfer students. Transfer students who have not attempted 12 credit hours of college-level coursework at Kent State and/or other institutions will be evaluated based on both their high school GPA and college GPA.

### English Language Proficiency Requirements for International Students:

All international students must provide proof of English language proficiency (unless they meet specific exceptions) by earning a minimum 525 TOEFL score (71 on the Internet-based version), minimum 75 MELAB score, minimum 6.0 IELTS score or minimum 48 PTE Academic score, or by completing the ELS level 112 Intensive Program. For more information on international admission, visit the Office of Global Education's admission website.

## University Requirements

All students in a bachelor's degree program at Kent State University must complete the following university requirements for graduation.

**NOTE:** University requirements may be fulfilled in this program by specific course requirements. Please see Program Requirements for details.

Destination Kent State: First Year Experience	1
Course is not required for students with 25 transfer credits, excluding College Credit Plus, or age 21+ at time of admission.	
Diversity Domestic/Global (DIVD/DIVG)	2 courses
Students must successfully complete one domestic and one global course, of which one must be from the Kent Core.	
Experiential Learning Requirement (ELR)	varies
Students must successfully complete one course or approved experience.	
Kent Core (see table below)	36-37
Writing-Intensive Course (WIC)	1 course
Students must earn a minimum C grade in the course.	
Upper-Division Requirement	39 (or 42)

Students must successfully complete 39 upper-division (numbered 30000 to 49999) credit hours to graduate. Students in a B.A. and/or B.S. degree in the College of Arts and Sciences must complete 42 upper-division credit hours.

Total Credit Hour Requirement	120
Some bachelor's degrees require students to complete more than 120 credit hours.	

## Kent Core Requirements

Kent Core Composition (KCMP)	6
Kent Core Mathematics and Critical Reasoning (KMCR)	3
Kent Core Humanities and Fine Arts (KHUM/KFA) (min one course each)	9
Kent Core Social Sciences (KSS) (must be from two disciplines)	6
Kent Core Basic Sciences (KBS/KLAB) (must include one laboratory)	6-7
Kent Core Additional (KADL)	6
<b>Total Credit Hours:</b>	<b>36-37</b>

## Program Requirements

### Major Requirements

Code	Title	Credit Hours
<b>Major Requirements (courses count in major GPA; min C grade required in all courses)</b>		
CS 10051	INTRODUCTION TO COMPUTER SCIENCE (KMCR)	4
MATH 12002	ANALYTIC GEOMETRY AND CALCULUS I (KMCR)	5
MATH 12003	ANALYTIC GEOMETRY AND CALCULUS II	5
MATH 20011	DECISION-MAKING UNDER UNCERTAINTY	3
MATH 21001	LINEAR ALGEBRA	3
MATH 22005	ANALYTIC GEOMETRY AND CALCULUS III	4
MATH 31011	PROOFS IN DISCRETE MATHEMATICS	3
MATH 34001	FUNDAMENTAL CONCEPTS OF ALGEBRA	3
MATH 34002	FUNDAMENTAL CONCEPTS OF GEOMETRY	3
MATH 47021	HISTORY OF MATHEMATICS	3
Major Electives A, choose from the following: 6		
MATH 41001	MODERN ALGEBRA I (ELR) (WIC)	
MATH 41002	MODERN ALGEBRA II (ELR) (WIC)	
MATH 41021	THEORY OF MATRICES	
MATH 47011	THEORY OF NUMBERS	
Mathematics Upper-Division Electives (MATH 30000 or 40000 level)		
Mathematics Electives B, choose from the following: 6		
MATH 42021	GRAPH THEORY AND COMBINATORICS	
MATH 45021	EUCLIDEAN GEOMETRY	
MATH 45022	LINEAR GEOMETRY	
MATH 46001	ELEMENTARY TOPOLOGY	
<b>Additional Requirements (courses do not count in major GPA)</b>		
ADED 20000	TOPICS IN SOCIAL JUSTICE IN TEACHING AND LEARNING (min C grade) <sup>1</sup>	3
ADED 32142	PRINCIPLES OF TEACHING ADOLESCENTS (WIC) (min C grade) <sup>1</sup>	3
ADED 32268	THE SECONDARY SCHOOL MATHEMATICS CURRICULUM (min C grade)	3
ADED 42268	TEACHING OF MATHEMATICS IN SECONDARY SCHOOLS (min C grade)	3
ADED 42292	FIELD WORK PRACTICUM (ELR) (min C grade) <sup>1</sup>	3

ADED 42392	SECONDARY STUDENT TEACHING (ELR) <sup>1</sup>	9
ADED 49525	INQUIRY INTO PROFESSIONAL PRACTICE (min C grade)	3
COMM 15000	INTRODUCTION TO HUMAN COMMUNICATION (KADL)	3
CULT 29535	EDUCATION IN A DEMOCRATIC SOCIETY (min C grade)	3
EPSY 29525	EDUCATIONAL PSYCHOLOGY (min C grade)	3
ETEC 39525	EDUCATIONAL TECHNOLOGY (min C grade)	3
HED 42575	HEALTH AND LEARNING: STRATEGIES FOR STUDENTS AND TEACHERS (min C grade)	3
PSYC 11762	GENERAL PSYCHOLOGY (DIVD) (KSS)	3
SPED 23000	INTRODUCTION TO EXCEPTIONALITIES (DIVD) (min C grade)	3
UC 10097	DESTINATION KENT STATE: FIRST YEAR EXPERIENCE	1
Kent Core Composition (min C grade)		6
Kent Core Humanities and Fine Arts (minimum one course from each)		9
Kent Core Social Sciences (must be from two disciplines)		3
Kent Core Basic Sciences (must include one laboratory)		6-7
Minimum Total Credit Hours:		121

<sup>1</sup> Teacher candidates are only permitted to repeat a field experience course once. Please see Repeating Field Experience Courses in Teacher Education Programs policy for details.

## Progression Requirements

Students must meet all professional requirements for admission to advanced study. To be admitted, students must display evidence of the following:

- Adequate communication skills
- Sound content area knowledge (language arts, mathematics, science or social studies)
- Basic understanding of the teaching profession
- Basic understanding of adolescents
- Dispositions aligned with the conceptual framework of the College of Education, Health and Human Services, including being open-minded, flexible, caring and responsible.

Faculty will select the most qualified applicants based on an interview; letters of recommendation; GPA<sup>1</sup>; Praxis Core scores; and performance in English and communication studies coursework. Applicants to the Integrated Mathematics major must have experience working with young adults in a supervisory capacity, such as tutoring, camp counseling, volunteer work or related experience. Students should contact the College of Education, Health and Human Services' Vacca Office of Student Services, 304 White Hall, during the first year of study to inquire about the procedures and criteria associated with advanced study.

<sup>1</sup> Undergraduate students who have not completed a minimum of 12 Kent State University credit hours will be evaluated for advanced study and professional phase based on their high school GPA for new freshmen or transfer GPA for transfer students.

## Graduation Requirements

Minimum Major GPA	Minimum Overall GPA
2.600	2.750

## Double Majors/Dual Degrees

Students seeking to declare an additional teacher education major in the B.S.E. degree (double major), or in a different degree (dual degree) may have the double major/dual degree approved as long as the following requirements are met:

1. Approval is received from the academic unit administrating each major. A program of study for those interested in pursuing a double major must be approved in writing by faculty from each major area prior to admission to advanced study.
2. All required content courses are completed for each major
3. All required methods courses are completed for each major.
4. Separate practicum and inquiry courses are completed for each major as listed below:
  - a. ADED 42292 (or the equivalent required by the major outside the college)
  - b. ADED 49525 (or the equivalent required by the major outside the college)
5. Students who have two majors from among the following only need to take ADED 42357, consisting of a 16-week classroom experience involving both subject areas: Life Sciences, Earth Science, Physical Sciences, Integrated Science, Integrated Mathematics, Life Science/Chemistry, Integrated Social Studies and/or Integrated Language Arts.
6. Students who have a second major not included in the list above (#5) will have their student teaching requirements determined by faculty from both program areas at the time the program of study is developed, with a minimum 16 weeks spent in the classroom.

## Licensure information

Candidates seeking Ohio licensure are required to pass specific assessments in order to apply for licensure. See Ohio Department of Education-Educator Preparation website for more information on assessments specific to licensure type. Taking and passing the licensure tests prior to graduation is encouraged but not required.

Students must apply for State of Ohio Licensure (defined by completion of all licensure program requirements) within 12 months of program completion. After 12 months, applicants must meet State approved program/licensure requirements that are in effect at the time of application. This means that students who apply after the 12 month deadline may have to take additional coursework if the content, methods courses, program requirements, or licensure requirements have changed from the catalog in force.

## Roadmap

This roadmap is a recommended semester-by-semester plan of study for this major. However, courses designated as critical (!) must be completed in the semester listed to ensure a timely graduation.

Semester One		Credits
COMM 15000	INTRODUCTION TO HUMAN COMMUNICATION (KADL)	3
! CULT 29535	EDUCATION IN A DEMOCRATIC SOCIETY	3
UC 10097	DESTINATION KENT STATE: FIRST YEAR EXPERIENCE	1
Kent Core Requirement		3

Kent Core Requirement		3
Kent Core Requirement		3
Credit Hours		16
<b>Semester Two</b>		
Requirement: Successful completion of Praxis Core Reading, Writing and Mathematics		
! MATH 12002	ANALYTIC GEOMETRY AND CALCULUS I (KMCR)	5
PSYC 11762	GENERAL PSYCHOLOGY (DIVD) (KSS)	3
Kent Core Requirement		3
Kent Core Requirement		3
Kent Core Requirement		3
Credit Hours		17
<b>Semester Three</b>		
Requirement: minimum 2.750 overall GPA by end of term; minimum 2.600 major GPA		
ADED 20000	TOPICS IN SOCIAL JUSTICE IN TEACHING AND LEARNING	3
ETEC 39525	EDUCATIONAL TECHNOLOGY	3
MATH 12003	ANALYTIC GEOMETRY AND CALCULUS II	5
MATH 34001	FUNDAMENTAL CONCEPTS OF ALGEBRA	3
Kent Core Requirement		3
Credit Hours		17
<b>Semester Four</b>		
Requirement: minimum 2.750 overall GPA by end of term; minimum 2.600 major GPA		
! EPSY 29525	EDUCATIONAL PSYCHOLOGY	3
MATH 20011	DECISION-MAKING UNDER UNCERTAINTY	3
MATH 22005	ANALYTIC GEOMETRY AND CALCULUS III	4
MATH 34002	FUNDAMENTAL CONCEPTS OF GEOMETRY	3
Kent Core Requirement		3
Credit Hours		16
<b>Semester Five</b>		
Requirement: minimum 2.750 overall GPA by end of term; minimum 2.600 major GPA		
! ADED 32142	PRINCIPLES OF TEACHING ADOLESCENTS (WIC)	3
! CS 10051	INTRODUCTION TO COMPUTER SCIENCE (KMCR)	4
MATH 21001	LINEAR ALGEBRA	3
MATH 31011	PROOFS IN DISCRETE MATHEMATICS	3
SPED 23000	INTRODUCTION TO EXCEPTIONALITIES (DIVD)	3
Credit Hours		16
<b>Semester Six</b>		
Requirement: minimum 2.750 overall GPA by end of term; minimum 2.600 major GPA		
! ADED 32268	THE SECONDARY SCHOOL MATHEMATICS CURRICULUM	3
HED 42575	HEALTH AND LEARNING: STRATEGIES FOR STUDENTS AND TEACHERS	3
Major Elective A		3
Major Elective A		3
Major Elective B		3
Credit Hours		15
<b>Semester Seven</b>		
Requirement: minimum 2.750 overall GPA by end of term; minimum 2.600 major GPA		
! ADED 42268	TEACHING OF MATHEMATICS IN SECONDARY SCHOOLS	3
! ADED 42292	FIELD WORK PRACTICUM (ELR)	3
MATH 47021	HISTORY OF MATHEMATICS	3

Major Elective B		3
Credit Hours		12
<b>Semester Eight</b>		
Requirement: minimum 2.750 overall GPA by end of term; minimum 2.600 major GPA		
ADED 42392	SECONDARY STUDENT TEACHING (ELR)	9
! ADED 49525	INQUIRY INTO PROFESSIONAL PRACTICE	3
Credit Hours		12
Minimum Total Credit Hours:		121

## Integrated Mathematics Additional Licensure Preparation - Non-Degree

**College of Education Health and Human Services**  
 School of Teaching, Learning and Curriculum Studies  
 404 White Hall  
 Kent Campus  
 330-672-2580  
[www.kent.edu/ehhs/tlcs](http://www.kent.edu/ehhs/tlcs)

### Description

The Integrated Mathematics Additional Licensure Preparation non-degree program prepares students to obtain an additional teacher license in mathematics for grades 7-12. Completion of the coursework is a prerequisite to being recommended by Kent State University for licensure, which is granted by the Ohio Department of Education. This non-degree program cannot be used for students seeking initial licensure.

The non-degree program is not a master's degree program. Students interested in a master's degree at Kent State must be fully admitted into and complete requirements for the master's program, in addition to courses that are prescribed for additional licensure.

### Fully Offered At:

- Kent Campus

### Accreditation

National Council for Accreditation of Teacher Education

### Admission Requirements

Applicants will be assessed holistically, considering academic credentials; standardized test scores of reading, writing and mathematics; academic or professional references; non-academic dimensions; and other specific program criteria.

- Bachelor's degree from an accredited college or university
- Minimum 3.000 overall undergraduate GPA on a 4.000 point scale
- Official transcript(s)
- Goal statement
- Two letters of recommendation
- Questions in Anticipation of Licensure Form
- Evidence of valid four-year Resident Educator or five-year Professional State of Ohio teaching licensure

For more information about graduate admission, please visit the Graduate Studies website.

## Program Learning Outcomes

Completers of this non-degree program will be able to:

1. Successfully pass the Ohio Assessment Exam.
2. Demonstrate understanding of the content and pedagogy of required integrated mathematics courses.
3. Successfully plan three types of lesson plans: conceptual, procedural and relevance to teaching mathematics.
4. Successfully complete student teaching.
5. Create a unit plan in secondary mathematics.
6. Model 5 problems of antiquity in Desmos or Geogebra.
7. Fulfill the requirements of edTPA.

## Program Requirements

### LICENSURE REQUIREMENTS

Code	Title	Credit Hours
<b>Licensure Requirements</b>		
ADED 52267	IMPROVING MATHEMATICS INSTRUCTION FOR ADOLESCENT AND ADULT EDUCATION	3
CI 67224	TEACHING MATHEMATICS USING COMPUTERS AND CALCULATORS	3
EHHS 50092	PRACTICAL EXPERIENCE IN EDUCATION, HEALTH AND HUMAN SERVICES	1
Minimum Total Credit Hours:		7

### Graduation Requirements

- Minimum 3.000 overall GPA
- Additional Coursework: An analysis of additional content-area coursework required at the post-undergraduate level will be completed before entering into the program, and a Plan of Study will be created based on transcript analysis and current licensure requirements by the Ohio Department of Education. A minimum C grade is required in each of these courses. This coursework would be in addition to requirements for the Integrated Mathematics non-degree program.
- Minimum 2.600 content area GPA required for Adolescence to Young Adult 7-12 licensure.

### Licensure Information

Prior to program completion, the candidate must demonstrate proficiencies in the following areas (including but not limited to): Data literacy and analysis, use of research and assessment data, leadership and collaboration, utilizing and supporting appropriate technology for the discipline, and application of professional dispositions, laws and policies, codes of ethics and professional standards appropriate to their field of specialization.

Candidates seeking Ohio licensure are required to pass the OAE Content Knowledge Assessment for each teaching field in order to apply for licensure. Students should consult their advisors for specific program requirements and refer to the Ohio Department of Education-Educator Preparation website for more information on assessments specific to licensure type. Students who do not apply for license within 12 months

of program completion may be subject to additional course requirements, based on Ohio licensure standards in force at the time of application.

## Integrated Science - B.S.E.

**College of Education Health and Human Services**  
 School of Teaching, Learning and Curriculum Studies  
 404 White Hall  
 Kent Campus  
 330-672-2580  
[www.kent.edu/ehhs/tlcs](http://www.kent.edu/ehhs/tlcs)

### Description

The Bachelor of Science in Education degree in Integrated Science is a five-year degree that prepares students for licensure in all areas of science, grades seven to 12. Students take a broad range of science-content courses in geology, geography, biology, chemistry and physics, and choose one area in which to specialize. Students complete most of their content coursework during their first four years and then begin their methods coursework during the spring of their fourth year. During the final year of the program, students complete remaining content courses, science teaching methods courses and a year-long placement in a local school district, which concludes with 13 weeks of student teaching in the spring. Integrated Science students are encouraged to meet with their advisor early in their program as many courses must be sequenced carefully.

### Fully Offered At:

- Kent Campus

### Accreditation

National Council for Accreditation of Teacher Education

### Admission Requirements

Admission to this major is selective. Admission to the college does not guarantee admission to a major and/or admission to professional coursework for a selective admission program. To be admitted directly into a teacher education program, it is required that new freshmen have a 2.750 high school GPA. Students who do not meet the GPA requirement at the time of admission for this major will be admitted to the EHHS General non-degree program until which time they have established a Kent State GPA of 2.750. They may then submit a change of program to declare this major.

**Current Kent State and Transfer Students:** Active Kent State students who wish to change their major must have attempted a minimum 12 credit hours at Kent State and meet all admission criteria listed above to be admitted. Students who have not attempted 12 credit hours at Kent State will be evaluated for admission based on their high school GPA for new students or transfer GPA for transfer students. Transfer students who have not attempted 12 credit hours of college-level coursework at Kent State and/or other institutions will be evaluated based on both their high school GPA and college GPA.

**English Language Proficiency Requirements for International Students:** All international students must provide proof of English language proficiency (unless they meet specific exceptions) by earning a minimum 525 TOEFL score (71 on the Internet-based version), minimum 75 MELAB



score, minimum 6.0 IELTS score or minimum 48 PTE Academic score, or by completing the ELS level 112 Intensive Program. For more information on international admission, visit the Office of Global Education's admission website.

## Program Learning Outcomes

Graduates of this program will be able to:

1. Plan multiple lessons using a variety of inquiry approaches that demonstrate their knowledge and understanding of how to engage all students in learning science.
2. Plan a learning environment and learning experiences for all students that demonstrate chemical safety, safety procedures, and the ethical treatment of living organisms within their licensure area.
3. Plan fair and equitable assessment strategies to analyze student learning and to evaluate if the science learning goals are met.

## University Requirements

All students in a bachelor's degree program at Kent State University must complete the following university requirements for graduation.

**NOTE:** University requirements may be fulfilled in this program by specific course requirements. Please see Program Requirements for details.

Destination Kent State: First Year Experience	1
Course is not required for students with 25 transfer credits, excluding College Credit Plus, or age 21+ at time of admission.	
Diversity Domestic/Global (DIVD/DIVG)	2 courses
Students must successfully complete one domestic and one global course, of which one must be from the Kent Core.	
Experiential Learning Requirement (ELR)	varies
Students must successfully complete one course or approved experience.	
Kent Core (see table below)	36-37
Writing-Intensive Course (WIC)	1 course
Students must earn a minimum C grade in the course.	
Upper-Division Requirement	39 (or 42)
Students must successfully complete 39 upper-division (numbered 3000 to 4999) credit hours to graduate. Students in a B.A. and/or B.S. degree in the College of Arts and Sciences must complete 42 upper-division credit hours.	
Total Credit Hour Requirement	120
Some bachelor's degrees require students to complete more than 120 credit hours.	

## Kent Core Requirements

Kent Core Composition (KCOMP)	6
Kent Core Mathematics and Critical Reasoning (KMCR)	3
Kent Core Humanities and Fine Arts (KHUM/KFA) (min one course each)	9
Kent Core Social Sciences (KSS) (must be from two disciplines)	6
Kent Core Basic Sciences (KBS/KLAB) (must include one laboratory)	6-7
Kent Core Additional (KADL)	6
<b>Total Credit Hours:</b>	<b>36-37</b>

## Program Requirements

### Major Requirements

Code	Title	Credit Hours
<b>Major Requirements (courses count in major GPA) (min C grade required in all courses)</b>		
BSCI 10110	BIOLOGICAL DIVERSITY (KBS) (KLAB)	4
BSCI 10120	BIOLOGICAL FOUNDATIONS (KBS) (KLAB)	4
BSCI 30140	CELL BIOLOGY	4
BSCI 30156	ELEMENTS OF GENETICS	3
CHEM 10060	GENERAL CHEMISTRY I (KBS)	4
CHEM 10061	GENERAL CHEMISTRY II (KBS)	4
CHEM 10062	GENERAL CHEMISTRY I LABORATORY (KBS) (KLAB)	1
CHEM 10063	GENERAL CHEMISTRY II LABORATORY (KBS) (KLAB)	1
CHEM 20481	BASIC ORGANIC CHEMISTRY I	4
GEOG 41073	CONSERVATION OF NATURAL RESOURCES	3
GEO 11040	HOW THE EARTH WORKS (KBS)	3
GEO 11041	HOW THE EARTH WORKS LABORATORY (KBS) (KLAB)	1
GEO 11042	EARTH AND LIFE THROUGH TIME (KBS)	3
GEO 11043	EARTH AND LIFE THROUGH TIME LABORATORY (KBS) (KLAB)	1
PHY 21430	FRONTIERS IN ASTRONOMY (KBS)	3
<b>Additional Requirements (courses do not count in major GPA)</b>		
ADED 20000	TOPICS IN SOCIAL JUSTICE IN TEACHING AND LEARNING (min C grade) <sup>1</sup>	3
ADED 32142	PRINCIPLES OF TEACHING ADOLESCENTS (WIC) (min C grade) <sup>1</sup>	3
ADED 32277	TEACHING SCIENCE IN SECONDARY SCHOOLS (min C grade) <sup>1</sup>	3
ADED 42277	TOPICS IN SECONDARY SCHOOL SCIENCE TEACHING (min C grade)	3
ADED 42292	FIELD WORK PRACTICUM (ELR) (min C grade) <sup>1</sup>	3
ADED 42392	SECONDARY STUDENT TEACHING (ELR) <sup>1</sup>	9
ADED 49525	INQUIRY INTO PROFESSIONAL PRACTICE (min C grade)	3
CI 47330	READING AND WRITING IN ADOLESCENCE/ADULTHOOD (min C grade)	3
CULT 29535	EDUCATION IN A DEMOCRATIC SOCIETY (min C grade)	3
EPSY 29525	EDUCATIONAL PSYCHOLOGY (min C grade)	3
ETEC 39525	EDUCATIONAL TECHNOLOGY (min C grade)	3
MATH 10041	INTRODUCTORY STATISTICS (KMCR)	3-4
or MATH 30011	BASIC PROBABILITY AND STATISTICS	
MATH 11010	ALGEBRA FOR CALCULUS (KMCR)	3
MATH 11022	TRIGONOMETRY (KMCR)	3
MATH 12002	ANALYTIC GEOMETRY AND CALCULUS I (KMCR)	5
PHIL 11001	INTRODUCTION TO PHILOSOPHY (DIVG) (KHUM)	3
PSYC 11762	GENERAL PSYCHOLOGY (DIVD) (KSS)	3
SOC 12050	INTRODUCTION TO SOCIOLOGY (DIVD) (KSS)	3
SPED 23000	INTRODUCTION TO EXCEPTIONALITIES (DIVD) (min C grade)	3

UC 10097	DESTINATION KENT STATE: FIRST YEAR EXPERIENCE	1
Kent Core Composition (min C grade)		6
Kent Core Humanities and Fine Arts (minimum one from each)		6
<b>Concentrations</b>		
Choose from the following:		23-27
Chemistry		
Earth Science		
Life Science		
Physics		
Minimum Total Credit Hours:		144-148

<sup>1</sup> Teacher candidates are only permitted to repeat a field experience course once. Please see Repeating Field Experience Courses in Teacher Education Programs policy for details.

## Chemistry Concentration Requirements

Code	Title	Credit Hours
<b>Concentration Requirements (courses count in major GPA; min C grade required in all courses)</b>		
CHEM 30105	ANALYTICAL CHEMISTRY I	3
CHEM 30284	INTRODUCTORY BIOLOGICAL CHEMISTRY	4
CHEM 30301	INORGANIC CHEMISTRY I	2
CHEM 30475	ORGANIC CHEMISTRY LABORATORY I (ELR)	1
CHEM 40567	PHYSICAL CHEMISTRY FOR LIFE SCIENCES	4
PHY 13001	GENERAL COLLEGE PHYSICS I (KBS)	4
PHY 13002	GENERAL COLLEGE PHYSICS II (KBS)	4
PHY 13021	GENERAL COLLEGE PHYSICS LABORATORY I (KBS) (KLAB)	1
PHY 13022	GENERAL COLLEGE PHYSICS LABORATORY II (KBS) (KLAB)	1
Minimum Total Credit Hours:		24

## Earth Science Concentration Requirements

Code	Title	Credit Hours
<b>Concentration Requirements (courses count in major GPA; min C grade required in all courses)</b>		
CHEM 30301	INORGANIC CHEMISTRY I	2
GEOL 21080	ALL ABOUT THE OCEANS (KBS)	3
GEOL 23063	EARTH MATERIALS I	4
GEOL 31070	EARTH MATERIALS II (WIC)	4
or GEOL 32066	GEOMORPHOLOGY	
PHY 13001	GENERAL COLLEGE PHYSICS I (KBS)	4
PHY 13002	GENERAL COLLEGE PHYSICS II (KBS)	4
PHY 13021	GENERAL COLLEGE PHYSICS LABORATORY I (KBS) (KLAB)	1
PHY 13022	GENERAL COLLEGE PHYSICS LABORATORY II (KBS) (KLAB)	1
Minimum Total Credit Hours:		23

## Life Science Concentration Requirements

Code	Title	Credit Hours
<b>Concentration Requirements (courses count in major GPA; min C grade required in all courses)</b>		
BSCI 30360	GENERAL ECOLOGY	4
BSCI 40163	EVOLUTION	3

CHEM 30284	INTRODUCTORY BIOLOGICAL CHEMISTRY	4
GEOL 21062	ENVIRONMENTAL EARTH SCIENCE (KBS)	3
PHY 13001	GENERAL COLLEGE PHYSICS I (KBS)	4
PHY 13002	GENERAL COLLEGE PHYSICS II (KBS)	4
PHY 13021	GENERAL COLLEGE PHYSICS LABORATORY I (KBS) (KLAB)	1
PHY 13022	GENERAL COLLEGE PHYSICS LABORATORY II (KBS) (KLAB)	1
Minimum Total Credit Hours:		24

## Physics Concentration Requirements

Code	Title	Credit Hours
<b>Concentration Requirements (courses count in major GPA; min C grade required in all courses)</b>		
CHEM 40567	PHYSICAL CHEMISTRY FOR LIFE SCIENCES	4
MATH 12003	ANALYTIC GEOMETRY AND CALCULUS II	5
PHY 23101	GENERAL UNIVERSITY PHYSICS I (KBS) (KLAB)	5
PHY 23102	GENERAL UNIVERSITY PHYSICS II (KBS) (KLAB)	5
PHY 30020	INTERMEDIATE PHYSICS LABORATORY (WIC)	2
PHY 32511	ELECTRONICS	3-4
or PHY 36002	APPLICATIONS OF MODERN PHYSICS	
PHY 36001	INTRODUCTORY MODERN PHYSICS	3
Minimum Total Credit Hours:		27

## Progression Requirements

Students must meet all professional requirements for admission to advanced study. To be admitted, students must display evidence of the following:

- Adequate communication skills
- Sound content area knowledge (language arts, mathematics, science or social studies)
- Basic understanding of the teaching profession
- Basic understanding of adolescents

Dispositions aligned with the conceptual framework of the College of Education, Health and Human Services, including being open-minded, flexible, caring and responsible.

Faculty will select the most qualified applicants based on an interview; letters of recommendation; GPA<sup>1</sup>; Praxis Core scores; and performance in English and communication studies coursework. Applicants to the Integrated Science major must have experience working with young adults in a supervisory capacity, such as tutoring, camp counseling, volunteer work or related experience. Students should contact the College of Education, Health and Human Services' Vacca Office of Student Services, 304 White Hall, during the first year of study to inquire about the procedures and criteria associated with advanced study.

<sup>1</sup> Undergraduate students who have not completed a minimum of 12 Kent State University credit hours will be evaluated for advanced study and professional phase based on their high school GPA for new freshmen or transfer GPA for transfer students.

## Graduation Requirements

Minimum Major GPA	Minimum Overall GPA
2.600	2.750

## Double Majors/Dual Degrees

Students seeking to declare an additional teacher education major in the B.S.E. degree (double major), or in a different degree (dual degree) may have the double major/dual degree approved as long as the following requirements are met:

- Approval is received from the academic unit administrating each major. A program of study for those interested in pursuing a double major must be approved in writing by faculty from each major area prior to admission to advanced study.
- All required content courses are completed for each major.
- All required methods courses are completed for each major.
- Separate practicum and inquiry courses are completed for each major as listed below:
  - ADED 42292 (or the equivalent required by the major outside the college)
  - ADED 49525 (or the equivalent required by the major outside the college)
- Students who have two majors from among the following only need to take ADED 42392, consisting of a 16-week classroom experience involving both subject areas: Life Sciences, Earth Science, Physical Sciences, Integrated Science, Integrated Mathematics, Life Science/Chemistry, Integrated Social Studies and/or Integrated Language Arts.
- Students who have a second major not included in the list above (#5) will have their student teaching requirements determined by faculty from both program areas at the time the program of study is developed, with a minimum 16 weeks spent in the classroom.

## Licensure information

Candidates seeking Ohio licensure are required to pass specific assessments in order to apply for licensure. See Ohio Department of Education-Educator Preparation website for more information on assessments specific to licensure type. Taking and passing the licensure tests prior to graduation is encouraged but not required.

Students must apply for State of Ohio Licensure (defined by completion of all licensure program requirements) within 12 months of program completion. After 12 months, applicants must meet State approved program/licensure requirements that are in effect at the time of application. This means that students who apply after the 12 month deadline may have to take additional coursework if the content, methods courses, program requirements, or licensure requirements have changed from the catalog in force.

## Roadmaps

- Chemistry
- Earth Science
- Life Science
- Physics

## Chemistry Concentration

This roadmap is a recommended semester-by-semester plan of study for this major. However, courses designated as critical (!) must be completed in the semester listed to ensure a timely graduation.

Semester One		Credits
BSCI 10120	BIOLOGICAL FOUNDATIONS (KBS) (KLAB)	4
MATH 11010	ALGEBRA FOR CALCULUS (KMCR)	3
PSYC 11762	GENERAL PSYCHOLOGY (DIVD) (KSS)	3
UC 10097	DESTINATION KENT STATE: FIRST YEAR EXPERIENCE	1
Kent Core Requirement		3
Credit Hours		14
Semester Two		
Requirement: Successful completion of Praxis Core Reading, Writing and Mathematics		
! BSCI 10110	BIOLOGICAL DIVERSITY (KBS) (KLAB)	4
! CULT 29535	EDUCATION IN A DEMOCRATIC SOCIETY	3
MATH 11022	TRIGONOMETRY (KMCR)	3
SOC 12050	INTRODUCTION TO SOCIOLOGY (DIVD) (KSS)	3
Kent Core Requirement		3
Credit Hours		16
Semester Three		
ADED 20000	TOPICS IN SOCIAL JUSTICE IN TEACHING AND LEARNING	3
! CHEM 10060	GENERAL CHEMISTRY I (KBS)	4
! CHEM 10062	GENERAL CHEMISTRY I LABORATORY (KBS) (KLAB)	1
! MATH 12002	ANALYTIC GEOMETRY AND CALCULUS I (KMCR)	5
Kent Core Requirement		3
Credit Hours		16
Semester Four		
BSCI 30156	ELEMENTS OF GENETICS	3
! CHEM 10061	GENERAL CHEMISTRY II (KBS)	4
! CHEM 10063	GENERAL CHEMISTRY II LABORATORY (KBS) (KLAB)	1
! EPSY 29525	EDUCATIONAL PSYCHOLOGY	3
PHIL 11001	INTRODUCTION TO PHILOSOPHY (DIVG) (KHUM)	3
Credit Hours		14
Semester Five		
Requirement: minimum 2.750 overall GPA required by end of term and minimum 2.600 major GPA		
BSCI 30140	CELL BIOLOGY	4
CHEM 20481	BASIC ORGANIC CHEMISTRY I	4
CHEM 30475	ORGANIC CHEMISTRY LABORATORY I (ELR)	1
GEOL 11040	HOW THE EARTH WORKS (KBS)	3
GEOL 11041	HOW THE EARTH WORKS LABORATORY (KBS) (KLAB)	1
Kent Core Requirement		3
Credit Hours		16
Semester Six		
Requirement: minimum 2.750 overall GPA required by end of term and minimum 2.600 major GPA		
CHEM 30284	INTRODUCTORY BIOLOGICAL CHEMISTRY	4
CHEM 30301	INORGANIC CHEMISTRY I	2
GEOL 11042	EARTH AND LIFE THROUGH TIME (KBS)	3
GEOL 11043	EARTH AND LIFE THROUGH TIME LABORATORY (KBS) (KLAB)	1

PHY 21430	FRONTIERS IN ASTRONOMY (KBS)	3
SPED 23000	INTRODUCTION TO EXCEPTIONALITIES (DIVD)	3
Credit Hours		16

**Semester Seven**

Requirement: minimum 2.750 overall GPA and minimum 2.600 major GPA

!	ADED 32142	PRINCIPLES OF TEACHING ADOLESCENTS (WIC)	3
	CHEM 30105	ANALYTICAL CHEMISTRY I	3
	ETEC 39525	EDUCATIONAL TECHNOLOGY	3
	PHY 13001	GENERAL COLLEGE PHYSICS I (KBS)	4
	PHY 13021	GENERAL COLLEGE PHYSICS LABORATORY I (KBS) (KLAB)	1
Credit Hours		14	

**Semester Eight**

Requirement: minimum 2.750 overall GPA and minimum 2.600 major GPA

!	ADED 32277	TEACHING SCIENCE IN SECONDARY SCHOOLS	3
	CI 47330	READING AND WRITING IN ADOLESCENCE/ADULTHOOD	3
	GEOG 41073	CONSERVATION OF NATURAL RESOURCES	3
	PHY 13002	GENERAL COLLEGE PHYSICS II (KBS)	4
	PHY 13022	GENERAL COLLEGE PHYSICS LABORATORY II (KBS) (KLAB)	1
Credit Hours		14	

**Semester Nine**

Requirement: minimum 2.750 overall GPA and minimum 2.600 major GPA

!	ADED 42277	TOPICS IN SECONDARY SCHOOL SCIENCE TEACHING	3
!	ADED 42292	FIELD WORK PRACTICUM (ELR)	3
	CHEM 40567	PHYSICAL CHEMISTRY FOR LIFE SCIENCES	4
	MATH 10041	INTRODUCTORY STATISTICS (KMCR)	3
	or	or BASIC PROBABILITY AND STATISTICS	
	MATH 30011		
Credit Hours		13	

**Semester Ten**

Requirement: minimum 2.750 overall GPA and minimum 2.600 major GPA

	ADED 42392	SECONDARY STUDENT TEACHING (ELR)	9
!	ADED 49525	INQUIRY INTO PROFESSIONAL PRACTICE	3
Credit Hours		12	
Minimum Total Credit Hours:		145	

## Earth Science Concentration

This roadmap is a recommended semester-by-semester plan of study for this major. However, courses designated as critical (!) must be completed in the semester listed to ensure a timely graduation.

Semester One		Credits
GEOL 11040	HOW THE EARTH WORKS (KBS)	3
GEOL 11041	HOW THE EARTH WORKS LABORATORY (KBS) (KLAB)	1
MATH 11010	ALGEBRA FOR CALCULUS (KMCR)	3
PSYC 11762	GENERAL PSYCHOLOGY (DIVD) (KSS)	3
UC 10097	DESTINATION KENT STATE: FIRST YEAR EXPERIENCE	1
Kent Core Requirement		3
Credit Hours		14
Semester Two		
Requirement: Successful completion of Praxis Core Reading, Writing and Mathematics		
! CULT 29535	EDUCATION IN A DEMOCRATIC SOCIETY	3
GEOL 11042	EARTH AND LIFE THROUGH TIME (KBS)	3
GEOL 11043	EARTH AND LIFE THROUGH TIME LABORATORY (KBS) (KLAB)	1
MATH 11022	TRIGONOMETRY (KMCR)	3
SOC 12050	INTRODUCTION TO SOCIOLOGY (DIVD) (KSS)	3
Kent Core Requirement		3
Credit Hours		16
Semester Three		
! CHEM 10060	GENERAL CHEMISTRY I (KBS)	4
! CHEM 10062	GENERAL CHEMISTRY I LABORATORY (KBS) (KLAB)	1
GEOL 21080	ALL ABOUT THE OCEANS (KBS)	3
! MATH 12002	ANALYTIC GEOMETRY AND CALCULUS I (KMCR)	5
Kent Core Requirement		3
Credit Hours		16
Semester Four		
ADED 20000	TOPICS IN SOCIAL JUSTICE IN TEACHING AND LEARNING	3
! CHEM 10061	GENERAL CHEMISTRY II (KBS)	4
! CHEM 10063	GENERAL CHEMISTRY II LABORATORY (KBS) (KLAB)	1
! EPSY 29525	EDUCATIONAL PSYCHOLOGY	3
PHIL 11001	INTRODUCTION TO PHILOSOPHY (DIVG) (KHUM)	3
Kent Core Requirement		3
Credit Hours		17
Semester Five		
Requirement: minimum 2.750 overall GPA required by end of term and minimum 2.600 major GPA		
CHEM 20481	BASIC ORGANIC CHEMISTRY I	4
GEOL 23063	EARTH MATERIALS I	4
PHY 13001	GENERAL COLLEGE PHYSICS I (KBS)	4
PHY 13021	GENERAL COLLEGE PHYSICS LABORATORY I (KBS) (KLAB)	1
Credit Hours		13
Semester Six		
Requirement: minimum 2.750 overall GPA and minimum 2.600 major GPA		
BSCI 10120	BIOLOGICAL FOUNDATIONS (KBS) (KLAB)	4

GEOL 31070	EARTH MATERIALS II (WIC)	4
or	or GEOMORPHOLOGY	
GEOL 32066		
PHY 13002	GENERAL COLLEGE PHYSICS II (KBS)	4
PHY 13022	GENERAL COLLEGE PHYSICS LABORATORY II (KBS) (KLAB)	1
SPED 23000	INTRODUCTION TO EXCEPTIONALITIES (DIVD)	3
Credit Hours		16
Semester Seven		
Requirement: minimum 2.750 overall GPA and minimum 2.600 major GPA		
! ADED 32142	PRINCIPLES OF TEACHING ADOLESCENTS (WIC)	3
BSCI 10110	BIOLOGICAL DIVERSITY (KBS) (KLAB)	4
CI 47330	READING AND WRITING IN ADOLESCENCE/ADULTHOOD	3
EETC 39525	EDUCATIONAL TECHNOLOGY	3
Credit Hours		13
Semester Eight		
Requirement: minimum 2.750 overall GPA and minimum 2.600 major GPA		
! ADED 32277	TEACHING SCIENCE IN SECONDARY SCHOOLS	3
BSCI 30140	CELL BIOLOGY	4
BSCI 30156	ELEMENTS OF GENETICS	3
CHEM 30301	INORGANIC CHEMISTRY I	2
PHY 21430	FRONTIERS IN ASTRONOMY (KBS)	3
Credit Hours		15
Semester Nine		
Requirement: minimum 2.750 overall GPA and minimum 2.600 major GPA		
! ADED 42277	TOPICS IN SECONDARY SCHOOL SCIENCE TEACHING	3
! ADED 42292	FIELD WORK PRACTICUM (ELR)	3
GEOG 41073	CONSERVATION OF NATURAL RESOURCES	3
MATH 10041	INTRODUCTORY STATISTICS (KMCR)	3-4
or	or BASIC PROBABILITY AND STATISTICS	
MATH 30011		
Credit Hours		12
Semester Ten		
Requirement: minimum 2.750 overall GPA and minimum 2.600 major GPA		
ADED 42392	SECONDARY STUDENT TEACHING (ELR)	9
! ADED 49525	INQUIRY INTO PROFESSIONAL PRACTICE	3
Credit Hours		12
Minimum Total Credit Hours:		144



## Life Science Concentration

This roadmap is a recommended semester-by-semester plan of study for this major. However, courses designated as critical (!) must be completed in the semester listed to ensure a timely graduation.

Semester One		Credits
!	BSCI 10120 BIOLOGICAL FOUNDATIONS (KBS) (KLAB)	4
	MATH 11010 ALGEBRA FOR CALCULUS (KMCR)	3
	PSYC 11762 GENERAL PSYCHOLOGY (DIVD) (KSS)	3
	UC 10097 DESTINATION KENT STATE: FIRST YEAR EXPERIENCE	1
	Kent Core Requirement	3
Credit Hours		14
Semester Two		
Requirement: Successful completion of Praxis Core Reading, Writing and Mathematics		
!	BSCI 10110 BIOLOGICAL DIVERSITY (KBS) (KLAB)	4
!	CULT 29535 EDUCATION IN A DEMOCRATIC SOCIETY	3
	MATH 11022 TRIGONOMETRY (KMCR)	3
	SOC 12050 INTRODUCTION TO SOCIOLOGY (DIVD) (KSS)	3
	Kent Core Requirement	3
Credit Hours		16
Semester Three		
!	CHEM 10060 GENERAL CHEMISTRY I (KBS)	4
!	CHEM 10062 GENERAL CHEMISTRY I LABORATORY (KBS) (KLAB)	1
!	MATH 12002 ANALYTIC GEOMETRY AND CALCULUS I (KMCR)	5
	PHIL 11001 INTRODUCTION TO PHILOSOPHY (DIVG) (KHUM)	3
	Kent Core Requirement	3
Credit Hours		16
Semester Four		
	ADED 20000 TOPICS IN SOCIAL JUSTICE IN TEACHING AND LEARNING	3
	BSCI 30156 ELEMENTS OF GENETICS	3
!	CHEM 10061 GENERAL CHEMISTRY II (KBS)	4
!	CHEM 10063 GENERAL CHEMISTRY II LABORATORY (KBS) (KLAB)	1
!	EPSY 29525 EDUCATIONAL PSYCHOLOGY	3
	SPED 23000 INTRODUCTION TO EXCEPTIONALITIES (DIVD)	3
Credit Hours		17
Semester Five		
Requirement: minimum 2.750 overall GPA required by end of term and minimum 2.600 major GPA		
	BSCI 30140 CELL BIOLOGY	4
	CHEM 20481 BASIC ORGANIC CHEMISTRY I	4
	GEOL 11040 HOW THE EARTH WORKS (KBS)	3
	GEOL 11041 HOW THE EARTH WORKS LABORATORY (KBS) (KLAB)	1
	Kent Core Requirement	3
Credit Hours		15
Semester Six		
Requirement: minimum 2.750 overall GPA and minimum 2.600 major GPA		
	BSCI 30360 GENERAL ECOLOGY	4
	CHEM 30284 INTRODUCTORY BIOLOGICAL CHEMISTRY	4
	GEOG 41073 CONSERVATION OF NATURAL RESOURCES	3
	GEOL 11042 EARTH AND LIFE THROUGH TIME (KBS)	3

GEOL 11043	EARTH AND LIFE THROUGH TIME LABORATORY (KBS) (KLAB)	1
Credit Hours		15
Semester Seven		
Requirement: minimum 2.750 overall GPA and minimum 2.600 major GPA		
!	ADED 32142 PRINCIPLES OF TEACHING ADOLESCENTS (WIC)	3
	CI 47330 READING AND WRITING IN ADOLESCENCE/ADULTHOOD	3
	ETEC 39525 EDUCATIONAL TECHNOLOGY	3
	PHY 13001 GENERAL COLLEGE PHYSICS I (KBS)	4
	PHY 13021 GENERAL COLLEGE PHYSICS LABORATORY I (KBS) (KLAB)	1
Credit Hours		14
Semester Eight		
Requirement: minimum 2.750 overall GPA and minimum 2.600 major GPA		
!	ADED 32277 TEACHING SCIENCE IN SECONDARY SCHOOLS	3
	BSCI 40163 EVOLUTION	3
	GEOL 21062 ENVIRONMENTAL EARTH SCIENCE (KBS)	3
	PHY 13002 GENERAL COLLEGE PHYSICS II (KBS)	4
	PHY 13022 GENERAL COLLEGE PHYSICS LABORATORY II (KBS) (KLAB)	1
Credit Hours		14
Semester Nine		
Requirement: minimum 2.750 overall GPA and minimum 2.600 major GPA		
!	ADED 42277 TOPICS IN SECONDARY SCHOOL SCIENCE TEACHING	3
!	ADED 42292 FIELD WORK PRACTICUM (ELR)	3
	MATH 10041 INTRODUCTORY STATISTICS (KMCR) or MATH 30011 or BASIC PROBABILITY AND STATISTICS	3-4
	PHY 21430 FRONTIERS IN ASTRONOMY (KBS)	3
Credit Hours		12
Semester Ten		
Requirement: minimum 2.750 overall GPA and minimum 2.600 major GPA		
	ADED 42392 SECONDARY STUDENT TEACHING (ELR)	9
!	ADED 49525 INQUIRY INTO PROFESSIONAL PRACTICE	3
Credit Hours		12
Minimum Total Credit Hours:		145

## Physics Concentration

This roadmap is a recommended semester-by-semester plan of study for this major. However, courses designated as critical (!) must be completed in the semester listed to ensure a timely graduation.

Semester One		Credits
CHEM 10060	GENERAL CHEMISTRY I (KBS)	4
CHEM 10062	GENERAL CHEMISTRY I LABORATORY (KBS) (KLAB)	1
MATH 11010	ALGEBRA FOR CALCULUS (KMCR)	3
PSYC 11762	GENERAL PSYCHOLOGY (DIVD) (KSS)	3
UC 10097	DESTINATION KENT STATE: FIRST YEAR EXPERIENCE	1
Kent Core Requirement		3
Credit Hours		15
Semester Two		
Requirement: Successful completion of Praxis Core Reading, Writing and Mathematics		
CHEM 10061	GENERAL CHEMISTRY II (KBS)	4
CHEM 10063	GENERAL CHEMISTRY II LABORATORY (KBS) (KLAB)	1
! CULT 29535	EDUCATION IN A DEMOCRATIC SOCIETY	3
MATH 11022	TRIGONOMETRY (KMCR)	3
SOC 12050	INTRODUCTION TO SOCIOLOGY (DIVD) (KSS)	3
Credit Hours		14
Semester Three		
CHEM 20481	BASIC ORGANIC CHEMISTRY I	4
MATH 12002	ANALYTIC GEOMETRY AND CALCULUS I (KMCR)	5
! PHY 23101	GENERAL UNIVERSITY PHYSICS I (KBS) (KLAB)	5
Kent Core Requirement		3
Credit Hours		17
Semester Four		
BSCI 10110	BIOLOGICAL DIVERSITY (KBS) (KLAB)	4
! MATH 12003	ANALYTIC GEOMETRY AND CALCULUS II	5
! PHY 23102	GENERAL UNIVERSITY PHYSICS II (KBS) (KLAB)	5
Credit Hours		14
Semester Five		
Requirement: minimum 2.750 overall GPA required by end of term and minimum 2.600 major GPA		
EPSY 29525	EDUCATIONAL PSYCHOLOGY	3
GEOL 11040	HOW THE EARTH WORKS (KBS)	3
GEOL 11041	HOW THE EARTH WORKS LABORATORY (KBS) (KLAB)	1
PHIL 11001	INTRODUCTION TO PHILOSOPHY (DIVG) (KHUM)	3
PHY 21430	FRONTIERS IN ASTRONOMY (KBS)	3
Kent Core Requirement		3
Credit Hours		16
Semester Six		
Requirement: minimum 2.750 overall GPA and minimum 2.600 major GPA		
GEOG 41073	CONSERVATION OF NATURAL RESOURCES	3
GEOL 11042	EARTH AND LIFE THROUGH TIME (KBS)	3
GEOL 11043	EARTH AND LIFE THROUGH TIME LABORATORY (KBS) (KLAB)	1
! PHY 30020	INTERMEDIATE PHYSICS LABORATORY (WIC)	2
SPED 23000	INTRODUCTION TO EXCEPTIONALITIES (DIVD)	3
Kent Core Requirement		3
Credit Hours		15

### Semester Seven

Requirement: minimum 2.750 overall GPA and minimum 2.600 major GPA		
ADED 20000	TOPICS IN SOCIAL JUSTICE IN TEACHING AND LEARNING	3
! ADED 32142	PRINCIPLES OF TEACHING ADOLESCENTS (WIC)	3
BSCI 10120	BIOLOGICAL FOUNDATIONS (KBS) (KLAB)	4
CI 47330	READING AND WRITING IN ADOLESCENCE/ADULTHOOD	3
ETEC 39525	EDUCATIONAL TECHNOLOGY	3
Credit Hours		16

### Semester Eight

Requirement: minimum 2.750 overall GPA and minimum 2.600 major GPA		
! ADED 32277	TEACHING SCIENCE IN SECONDARY SCHOOLS	3
BSCI 30140	CELL BIOLOGY	4
BSCI 30156	ELEMENTS OF GENETICS	3
MATH 10041	INTRODUCTORY STATISTICS (KMCR) or BASIC PROBABILITY AND STATISTICS	3-4
MATH 30011		
PHY 36001	INTRODUCTORY MODERN PHYSICS	3
Credit Hours		16

### Semester Nine

Requirement: minimum 2.750 overall GPA and minimum 2.600 major GPA		
! ADED 42277	TOPICS IN SECONDARY SCHOOL SCIENCE TEACHING	3
! ADED 42292	FIELD WORK PRACTICUM (ELR)	3
CHEM 40567	PHYSICAL CHEMISTRY FOR LIFE SCIENCES	4
PHY 32511	ELECTRONICS or APPLICATIONS OF MODERN PHYSICS	3-4
PHY 36002		
Credit Hours		13

### Semester Ten

Requirement: minimum 2.750 overall GPA and minimum 2.600 major GPA		
ADED 42392	SECONDARY STUDENT TEACHING (ELR)	9
! ADED 49525	INQUIRY INTO PROFESSIONAL PRACTICE	3
Credit Hours		12
Minimum Total Credit Hours:		148

## Integrated Science Additional Licensure Preparation - Non-Degree

**College of Education Health and Human Services**  
 School of Teaching, Learning and Curriculum Studies  
 404 White Hall  
 Kent Campus  
 330-672-2580  
[www.kent.edu/ehhs/tlcs](http://www.kent.edu/ehhs/tlcs)

## Description

The Integrated Science Additional Licensure Preparation non-degree program prepares students to obtain an additional teacher license in all areas of sciences for grades 7-12. Completion of the coursework is a prerequisite to being recommended by Kent State University for licensure.

which is granted by the Ohio Department of Education. This non-degree program cannot be used for students seeking initial licensure.

This program is not a master's degree. Students interested in a master's degree at Kent State must be fully admitted into and complete the requirements for the master's program, in addition to courses that are prescribed for additional licensure.

### Fully Offered At:

- Kent Campus

## Accreditation

National Council for Accreditation of Teacher Education

## Admission Requirements

Applicants will be assessed holistically, considering academic credentials; standardized test scores of reading, writing and mathematics; academic or professional references; non-academic dimensions; and other specific program criteria.

- Bachelor's degree from an accredited college or university
- Minimum 3.000 overall undergraduate GPA on a 4.000 point scale
- Official transcript(s)
- Goal statement
- Two letters of recommendation
- Questions in Anticipation of Licensure Form
- Evidence of valid four-year Resident Educator or five-year Professional State of Ohio teaching licensure

For more information about graduate admission, please visit the Graduate Studies website.

## Program Learning Outcomes

Completers of this non-degree program will be able to:

1. Plan multiple lessons using a variety of inquiry approaches that demonstrate their knowledge and understanding of how to engage all students in learning science.
2. Plan a learning environment and learning experiences for all students that demonstrate chemical safety, safety procedures and the ethical treatment of living organisms within their licensure area.
3. Plan fair and equitable assessment strategies to analyze student learning and to evaluate if the science learning goals are met.

## Program Requirements

### LICENSURE REQUIREMENTS

Code	Title	Credit Hours
<b>Licensure Requirements</b>		
ADED 52277	TEACHING SCIENCE IN THE SECONDARY SCHOOL	3
or CI 61133	ISSUES AND TRENDS IN ELEMENTARY SCIENCE	
or CI 61140	CULTURE AND MULTICULTURALISM IN SCIENCE EDUCATION	
CI 57330	READING AND WRITING IN ADOLESCENCE/ADULTHOOD	3

EHHS 50092	PRACTICAL EXPERIENCE IN EDUCATION, HEALTH AND HUMAN SERVICES	1
Minimum Total Credit Hours:		7

## Graduation Requirements

- Minimum 3.000 overall GPA
- Additional Coursework: An analysis of additional content-area coursework required at the post-undergraduate level will be completed before entering into the program, and a Plan of Study will be created based on transcript analysis and current licensure requirements by the Ohio Department of Education. A minimum C grade is required in each of these courses. This coursework would be in addition to requirements for the Integrated Science non-degree program.
- Minimum 2.600 content area GPA required for Adolescence to Young Adult 7-12 licensure.

## Licensure Information

Prior to program completion, the candidate must demonstrate proficiencies in the following areas (including but not limited to): Data literacy and analysis, use of research and assessment data, leadership and collaboration, utilizing and supporting appropriate technology for the discipline, and application of professional dispositions, laws and policies, codes of ethics and professional standards appropriate to their field of specialization.

Candidates seeking Ohio licensure are required to pass the OAE Content Knowledge Assessment for each teaching field in order to apply for licensure. Students should consult their advisors for specific program requirements and refer to the Ohio Department of Education-Educator Preparation website for more information on assessments specific to licensure type. Students who do not apply for license within 12 months of program completion may be subject to additional course requirements, based on Ohio licensure standards in force at the time of application.

## Integrated Social Studies - B.S.E.

**College of Education Health and Human Services**  
School of Teaching, Learning and Curriculum Studies  
404 White Hall  
Kent Campus  
330-672-2580  
[www.kent.edu/ehhs/tlcs](http://www.kent.edu/ehhs/tlcs)

## Description

The Bachelor of Science in Education degree in Integrated Social Studies prepares prospective teachers to be purposeful, deliberative and reflective practitioners, who teach students to contribute to the deepening of democracy, and promote the common good. The program is designed to develop pre-service teachers who learn from practice; engage in collaborative inquiry and partnerships to promote student learning and continued professional growth, create equitable classrooms, plan/organize meaningful lessons and assessments; and view themselves as curriculum developers who recognize that social studies content and curriculum are more than information in textbooks and standardized curriculum guides.

The Integrated Social Studies major comprises the following concentrations which prepares students to build on and integrate their content knowledge as part of developing participatory, democratic citizens:

- Economics
- Geography
- History
- Political Science
- Sociology

Graduates are prepared to teach social studies in grades 7-12 and are recommended for Ohio licensure upon completion of all state requirements.

### Fully Offered At:

- Kent Campus

## Accreditation

National Council for Accreditation of Teacher Education

## Admission Requirements

Admission to this major is selective. Admission to the college does not guarantee admission to a major and/or admission to professional coursework for a selective admission program. To be admitted directly into a teacher education program, it is required that new freshmen have a 2.750 high school GPA. Students who do not meet the GPA requirement at the time of admission for this major will be admitted to the EHHS General non-degree program until which time they have established a Kent State GPA of 2.750. They may then submit a change of program to declare this major.

**Current Kent State and Transfer Students:** Active Kent State students who wish to change their major must have attempted a minimum 12 credit hours at Kent State and meet all admission criteria listed above to be admitted. Students who have not attempted 12 credit hours at Kent State will be evaluated for admission based on their high school GPA for new students or transfer GPA for transfer students. Transfer students who have not attempted 12 credit hours of college-level coursework at Kent State and/or other institutions will be evaluated based on both their high school GPA and college GPA.

**English Language Proficiency Requirements for International Students:** All international students must provide proof of English language proficiency (unless they meet specific exceptions) by earning a minimum 525 TOEFL score (71 on the Internet-based version), minimum 75 MELAB score, minimum 6.0 IELTS score or minimum 48 PTE Academic score, or by completing the ELS level 112 Intensive Program. For more information on international admission, visit the Office of Global Education's admission website.

## Program Learning Outcomes

Graduates of this program will be able to:

1. Plan and teach lessons rooted in inquiry-based questions as outlined by the College, Career and Civic (C3) Framework as endorsed by the National Council for the Social Studies.

2. Plan for and teach in ways that promote active student engagement, value multiple perspectives and encourage listening across difference.
3. Develop equitable classrooms steeped in social justice that promote freedom and democracy for all learners.

## University Requirements

All students in a bachelor's degree program at Kent State University must complete the following university requirements for graduation.

**NOTE:** University requirements may be fulfilled in this program by specific course requirements. Please see Program Requirements for details.

Destination Kent State: First Year Experience	1
Course is not required for students with 25 transfer credits, excluding College Credit Plus, or age 21+ at time of admission.	
Diversity Domestic/Global (DIVD/DIVG)	2 courses
Students must successfully complete one domestic and one global course, of which one must be from the Kent Core.	
Experiential Learning Requirement (ELR)	varies
Students must successfully complete one course or approved experience.	
Kent Core (see table below)	36-37
Writing-Intensive Course (WIC)	1 course
Students must earn a minimum C grade in the course.	
Upper-Division Requirement	39 (or 42)
Students must successfully complete 39 upper-division (numbered 30000 to 49999) credit hours to graduate. Students in a B.A. and/or B.S. degree in the College of Arts and Sciences must complete 42 upper-division credit hours.	
Total Credit Hour Requirement	120
Some bachelor's degrees require students to complete more than 120 credit hours.	

## Kent Core Requirements

Kent Core Composition (KCMP)	6
Kent Core Mathematics and Critical Reasoning (KMCR)	3
Kent Core Humanities and Fine Arts (KHUM/KFA) (min one course each)	9
Kent Core Social Sciences (KSS) (must be from two disciplines)	6
Kent Core Basic Sciences (KBS/KLAB) (must include one laboratory)	6-7
Kent Core Additional (KADL)	6
<b>Total Credit Hours:</b>	<b>36-37</b>

## Program Requirements

### Major Requirements

Code	Title	Credit Hours
<b>Major Requirements (courses count in major GPA) (min C grade required in all courses)</b>		
ECON 22060	PRINCIPLES OF MICROECONOMICS (KSS)	3
ECON 22061	PRINCIPLES OF MACROECONOMICS (KSS)	3
HIST 11050	WORLD HISTORY: ANCIENT AND MEDIEVAL (DIVG) (KHUM)	3

HIST 11051	WORLD HISTORY: MODERN (DIVG) (KHUM)	3
HIST 12070	EARLY AMERICA: FROM PRE-COLONIZATION TO CIVIL WAR AND RECONSTRUCTION (DIVD) (KHUM)	3
HIST 12071	MODERN AMERICA: FROM INDUSTRIALIZATION TO GLOBALIZATION (DIVD) (KHUM)	3
POL 10100	AMERICAN POLITICS (DIVD) (KSS)	3
PSYC 11762	GENERAL PSYCHOLOGY (DIVD) (KSS)	3
SOC 12050	INTRODUCTION TO SOCIOLOGY (DIVD) (KSS)	3
WMST 30000	COLLOQUIUM IN WOMEN'S STUDIES (DIVD)	3
Psychology Elective, choose from the following:		3
PSYC 21211	PSYCHOLOGY OF EVERYDAY LIFE (DIVD) (KSS)	
PSYC 30652	SOCIAL AND PERSONALITY DEVELOPMENT	
PSYC 31532	SOCIAL PSYCHOLOGY	
PSYC 40112	PSYCHOLOGICAL DISORDERS OF CHILDHOOD AND ADOLESCENCE	
PSYC 40625	DEVELOPMENT OF GENDER ROLE AND IDENTITY (DIVD)	
<b>Additional Requirements (courses do not count in major GPA)</b>		
ADED 20000	TOPICS IN SOCIAL JUSTICE IN TEACHING AND LEARNING <sup>1</sup>	3
ADED 22275	ISSUES AND TRENDS IN SOCIAL STUDIES EDUCATION (min C grade)	3
ADED 32142	PRINCIPLES OF TEACHING ADOLESCENTS (WIC) (min C grade) <sup>1</sup>	3
ADED 32275	CURRICULUM AND PEDAGOGY IN SOCIAL STUDIES (min C grade) <sup>1</sup>	3
ADED 42275	TEACHING SOCIAL STUDIES IN GRADES 7 - 12 (min C grade)	3
ADED 42292	FIELD WORK PRACTICUM (ELR) (min C grade) <sup>1</sup>	3
ADED 42392	SECONDARY STUDENT TEACHING (ELR) <sup>1</sup>	9
ADED 49525	INQUIRY INTO PROFESSIONAL PRACTICE (min C grade)	3
CI 47330	READING AND WRITING IN ADOLESCENCE/ ADULTHOOD (min C grade)	3
CULT 29535	EDUCATION IN A DEMOCRATIC SOCIETY (min C grade)	3
EPSY 29525	EDUCATIONAL PSYCHOLOGY (min C grade)	3
ETEC 39525	EDUCATIONAL TECHNOLOGY (min C grade)	3
SPED 23000	INTRODUCTION TO EXCEPTIONALITIES (DIVD) (min C grade)	3
UC 10097	DESTINATION KENT STATE: FIRST YEAR EXPERIENCE	1
Kent Core Composition (min C grade)		6
Kent Core Mathematics and Critical Reasoning		3
Kent Core Fine Arts		3
Kent Core Basic Sciences		3
<b>Concentrations</b>		
Choose from the following:		30
Economics		
Geography		
History		
Political Science		
Sociology		
Minimum Total Credit Hours:		124

<sup>1</sup> Teacher candidates are only permitted to repeat a field experience course once. Please see Repeating Field Experience Courses in Teacher Education Programs policy for details.

## Economics Concentration Requirements

Code	Title	Credit Hours
<b>Concentration Requirements (courses count in major GPA) (min C grade required in all courses)</b>		
POL 10004	COMPARATIVE POLITICS (DIVG) (KSS)	3
or POL 10500	WORLD POLITICS (DIVG) (KSS)	
or POL 30002	POLITICAL THOUGHT	
POL 30100	AMERICAN POLITICAL THEORY	3
or POL 30820	INTERNATIONAL ORGANIZATION AND LAW	
or POL 40183	CONSTITUTIONAL LAW: CIVIL RIGHTS AND LIBERTIES (DIVD)	
Economics Electives, choose from the following:		12
ECON 32025	MONEY, CREDIT AND BANKING	
ECON 32040	INTERMEDIATE MICROECONOMIC THEORY AND APPLICATIONS	
ECON 32041	INTERMEDIATE MACROECONOMIC THEORY AND POLICY	
ECON 32070	LABOR PROBLEMS	
ECON 32083	THE ECONOMICS OF POVERTY (DIVD)	
ECON 32084	ECONOMICS OF THE ENVIRONMENT	
ECON 42072	LABOR ECONOMICS: WORK AND PAY	
ECON 42075	INTERNATIONAL ECONOMIC RELATIONS	
ECON 42080	REGIONAL ECONOMICS	
ECON 42081	URBAN ECONOMICS: CITIES AND HOUSING	
ECON 42085	PUBLIC ECONOMICS: GOVERNMENT AND POLICY	
ECON 42086	ECONOMICS OF HEALTH CARE	
Geography Elective, choose from the following:		3
GEOG 32080	POLITICS AND PLACE (DIVG)	
GEOG 34070	ECONOMIC GEOGRAPHY	
GEOG 36065	CITIES AND URBANIZATION (DIVG)	
GEOG 37040	GEOGRAPHY OF AFRICA (DIVG)	
GEOG 37045	GEOGRAPHY OF THE MIDDLE EAST	
GEOG 37050	GEOGRAPHY OF RUSSIA AND THE COMMONWEALTH OF INDEPENDENT STATES (DIVG)	
GEOG 37066	GEOGRAPHY OF EUROPE (DIVG)	
GEOG 37070	GEOGRAPHY OF EAST AND SOUTHEAST ASIA (DIVG)	
GEOG 37072	GEOGRAPHY OF CHINA	
GEOG 37084	GEOGRAPHY OF SOUTH AMERICA (DIVG)	
GEOG 37085	GEOGRAPHY OF LATIN AMERICA AND THE CARIBBEAN (DIVG)	
GEOG 41073	CONSERVATION OF NATURAL RESOURCES	
GEOG 42053	GEOGRAPHIES OF MEMORY AND HERITAGE	
GEOG 42064	SETTLING THE NORTH AMERICAN ENVIRONMENT	
GEOG 42070	SEMINAR IN ETHNIC, LIFESTYLE AND NATIONAL COMMUNITIES	
GEOG 44010	GEOGRAPHIES OF GLOBAL DEVELOPMENT (WIC)	
GEOG 46080	URBAN SUSTAINABILITY	
GEOG 46081	SEMINAR IN URBAN GEOGRAPHY	
History Elective, choose from the following:		3



HIST 31035	THE GLOBAL COLD WAR	
HIST 31053	MODERN EUROPE, 1815 TO PRESENT	
HIST 31102	WAR AND SOCIETY IN THE UNITED STATES FROM 1865 TO THE PRESENT	
HIST 31106	PROGRESSIVE AMERICA: THE UNITED STATES, 1896-1919	
HIST 31107	NEW ERA THROUGH WORLD WAR: THE UNITED STATES, 1920-1945	
HIST 31108	RECENT AMERICA: THE UNITED STATES, 1945-PRESENT	
HIST 31112	CHINESE CIVILIZATION	
HIST 31113	HISTORY OF JAPAN	
HIST 31123	HISTORY OF POST COLONIAL AFRICA	
HIST 31130	HISTORY OF PRE-COLONIAL AFRICA TO 1880	
HIST 31140	MODERN LATIN AMERICA (DIVG)	
HIST 31141	EARLY LATIN AMERICA	
HIST 41060	COMPARATIVE FASCISM	
HIST 41085	THE SIXTIES IN AMERICA	
HIST 41129	THE HOLOCAUST:THE DESTRUCTION OF EUROPEAN JEWRY, 1938-1945	
HIST 41132	HISTORY OF COLONIAL AFRICA, 1880-1994	
Sociology Elective, choose from the following:		3
SOC 22100	SOCIOLOGICAL ANALYSIS	
SOC 22778	SOCIAL PROBLEMS (DIVG) (KSS)	
SOC 32400	INDIVIDUAL AND SOCIETY	
SOC 32570	INEQUALITY IN SOCIETIES (DIVD)	
<b>Additional Requirements (courses do not count in major GPA)</b>		
Kent Core Basic Sciences (must include one laboratory)		3-4
Minimum Total Credit Hours:		30

## Geography Concentration Requirements

Code	Title	Credit Hours
<b>Concentration Requirements (courses count in major GPA) (min C grade required in all courses)</b>		
GEOG 17063	WORLD GEOGRAPHY (DIVG) (KSS)	3
or GEOG 17064	GEOGRAPHY OF THE UNITED STATES AND CANADA (DIVD) (KSS)	
GEOG 21062	PHYSICAL GEOGRAPHY (KBS)	3
GEOG 29160	MAPPING OUR WORLD	3
POL 10004	COMPARATIVE POLITICS (DIVG) (KSS)	3
or POL 10500	WORLD POLITICS (DIVG) (KSS)	
or POL 30002	POLITICAL THOUGHT	
POL 30100	AMERICAN POLITICAL THEORY	3
or POL 30820	INTERNATIONAL ORGANIZATION AND LAW	
or POL 40183	CONSTITUTIONAL LAW: CIVIL RIGHTS AND LIBERTIES (DIVD)	
Geography Upper-Division Electives, choose from the following:		3
GEOG 32080	POLITICS AND PLACE (DIVG)	
GEOG 34070	ECONOMIC GEOGRAPHY	
GEOG 36065	CITIES AND URBANIZATION (DIVG)	
GEOG 42053	GEOGRAPHIES OF MEMORY AND HERITAGE	
GEOG 42070	SEMINAR IN ETHNIC, LIFESTYLE AND NATIONAL COMMUNITIES	
GEOG 44010	GEOGRAPHIES OF GLOBAL DEVELOPMENT (WIC)	
GEOG 46080	URBAN SUSTAINABILITY	
GEOG 46081	SEMINAR IN URBAN GEOGRAPHY	

International Geography Elective, choose from the following:		3
GEOG 37040	GEOGRAPHY OF AFRICA (DIVG)	
GEOG 37045	GEOGRAPHY OF THE MIDDLE EAST	
GEOG 37050	GEOGRAPHY OF RUSSIA AND THE COMMONWEALTH OF INDEPENDENT STATES (DIVG)	
GEOG 37066	GEOGRAPHY OF EUROPE (DIVG)	
GEOG 37070	GEOGRAPHY OF EAST AND SOUTHEAST ASIA (DIVG)	
GEOG 37072	GEOGRAPHY OF CHINA	
GEOG 37084	GEOGRAPHY OF SOUTH AMERICA (DIVG)	
GEOG 37085	GEOGRAPHY OF LATIN AMERICA AND THE CARIBBEAN (DIVG)	
History Elective, choose from the following:		3
HIST 31106	PROGRESSIVE AMERICA: THE UNITED STATES, 1896-1919	
HIST 31035	THE GLOBAL COLD WAR	
HIST 31053	MODERN EUROPE, 1815 TO PRESENT	
HIST 31102	WAR AND SOCIETY IN THE UNITED STATES FROM 1865 TO THE PRESENT	
HIST 31107	NEW ERA THROUGH WORLD WAR: THE UNITED STATES, 1920-1945	
HIST 31108	RECENT AMERICA: THE UNITED STATES, 1945-PRESENT	
HIST 31112	CHINESE CIVILIZATION	
HIST 31113	HISTORY OF JAPAN	
HIST 31123	HISTORY OF POST COLONIAL AFRICA	
HIST 31130	HISTORY OF PRE-COLONIAL AFRICA TO 1880	
HIST 31140	MODERN LATIN AMERICA (DIVG)	
HIST 31141	EARLY LATIN AMERICA	
HIST 41060	COMPARATIVE FASCISM	
HIST 41085	THE SIXTIES IN AMERICA	
HIST 41129	THE HOLOCAUST:THE DESTRUCTION OF EUROPEAN JEWRY, 1938-1945	
HIST 41132	HISTORY OF COLONIAL AFRICA, 1880-1994	
Sociology Elective, choose from the following:		3
SOC 22100	SOCIOLOGICAL ANALYSIS	
SOC 22778	SOCIAL PROBLEMS (DIVG) (KSS)	
SOC 32400	INDIVIDUAL AND SOCIETY	
SOC 32570	INEQUALITY IN SOCIETIES (DIVD)	
<b>Additional Requirements (courses do not count in major GPA)</b>		
General Electives (total credit hours depends on earning 124 credit hours, including 39 upper-division credit hours)		3
Minimum Total Credit Hours:		30

## History Concentration Requirements

Code	Title	Credit Hours
<b>Concentration Requirements (courses count in major GPA) (min C grade required in all courses)</b>		
PAS 35100	BLACK SOCIAL AND POLITICAL THOUGHT	3
or PAS 35200	AFRICAN SOCIAL AND POLITICAL SYSTEMS	
POL 10004	COMPARATIVE POLITICS (DIVG) (KSS)	3
or POL 10500	WORLD POLITICS (DIVG) (KSS)	
or POL 30002	POLITICAL THOUGHT	
POL 30100	AMERICAN POLITICAL THEORY	3
or POL 30820	INTERNATIONAL ORGANIZATION AND LAW	
or POL 40183	CONSTITUTIONAL LAW: CIVIL RIGHTS AND LIBERTIES (DIVD)	

## Non-Western History Elective, choose from the following: 3

HIST 31035	THE GLOBAL COLD WAR
HIST 31112	CHINESE CIVILIZATION
HIST 31113	HISTORY OF JAPAN
HIST 31114	TRADITION AND REVOLUTION IN SOUTHEAST ASIA
HIST 31115	INDIA SINCE 1526
HIST 31118	VIETNAM WAR
HIST 31119	THE SIXTIES: A THIRD WORLD VIEW
HIST 31120	COMPARATIVE THIRD WORLD REVOLUTIONS
HIST 31123	HISTORY OF POST COLONIAL AFRICA
HIST 31124	HIGHLIFE HISTORIES: MODERN AFRICAN URBAN EXPERIENCE
HIST 31127	ANCIENT AND EARLY MEDIEVAL JEWISH HISTORY
HIST 31130	HISTORY OF PRE-COLONIAL AFRICA TO 1880
HIST 31140	MODERN LATIN AMERICA (DIVG)
HIST 31141	EARLY LATIN AMERICA
HIST 41132	HISTORY OF COLONIAL AFRICA, 1880-1994

## U.S. History Elective, choose from the following: 3

HIST 31071	US FOREIGN RELATIONS THROUGH 1898
HIST 31087	SECTIONAL CONFLICT AND CIVIL WAR
HIST 31100	RECONSTRUCTION AND THE LATER SOUTH
HIST 31101	WAR AND SOCIETY IN THE UNITED STATES FROM 1607 THROUGH 1865
HIST 31104	MIGRATIONS TO AMERICA, 1607 TO PRESENT
HIST 40197	AMERICAN CULTURAL HERITAGE:THE ARTS AND SOCIETY
HIST 41056	HISTORY OF COLONIAL AMERICA:1492-1714 (DIVD)
HIST 41057	EIGHTEENTH-CENTURY AMERICA:1714-1789 (DIVD)
HIST 41058	JEFFERSON-JACKSON ERA, 1789-1848
HIST 41071	AMERICAN SOCIAL AND INTELLECTUAL HISTORY, 1876-PRESENT (DIVD)

## 20th Century U.S. History Elective, choose from the following: 3

HIST 31072	US FOREIGN RELATIONS, 1898-1945
HIST 31073	US FOREIGN RELATIONS SINCE 1945
HIST 31102	WAR AND SOCIETY IN THE UNITED STATES FROM 1865 TO THE PRESENT
HIST 31106	PROGRESSIVE AMERICA: THE UNITED STATES, 1896-1919
HIST 31107	NEW ERA THROUGH WORLD WAR: THE UNITED STATES, 1920-1945
HIST 31108	RECENT AMERICA: THE UNITED STATES, 1945-PRESENT
HIST 41085	THE SIXTIES IN AMERICA

## Europe Since 1500 Elective, choose from the following: 3

HIST 31031	THE PROTESTANT AND CATHOLIC REFORMATIONS
HIST 31032	SEVENTEENTH-CENTURY EUROPE
HIST 31053	MODERN EUROPE, 1815 TO PRESENT
HIST 31056	EUROPE IN THE RENAISSANCE
HIST 31550	MEDICINE IN THE MODERN WORLD SINCE 1500
HIST 31543	THE SCIENTIFIC REVOLUTION
HIST 41020	NINETEENTH-CENTURY EUROPE
HIST 41024	MODERN EUROPEAN HISTORY, 1914-1945
HIST 41025	MODERN EUROPEAN HISTORY:1945-PRESENT

HIST 41041	HISTORY OF GERMANY, 1871-PRESENT
HIST 41044	IMPERIAL RUSSIA, 1689-1917
HIST 41045	MODERN RUSSIA, 1917-PRESENT
HIST 41060	COMPARATIVE FASCISM
HIST 41129	THE HOLOCAUST:THE DESTRUCTION OF EUROPEAN JEWRY, 1938-1945

## Geography Elective, choose from the following: 3

GEOG 32080	POLITICS AND PLACE (DIVG)
GEOG 34070	ECONOMIC GEOGRAPHY
GEOG 36065	CITIES AND URBANIZATION (DIVG)
GEOG 37040	GEOGRAPHY OF AFRICA (DIVG)
GEOG 37045	GEOGRAPHY OF THE MIDDLE EAST
GEOG 37050	GEOGRAPHY OF RUSSIA AND THE COMMONWEALTH OF INDEPENDENT STATES (DIVG)
GEOG 37066	GEOGRAPHY OF EUROPE (DIVG)
GEOG 37070	GEOGRAPHY OF EAST AND SOUTHEAST ASIA (DIVG)
GEOG 37072	GEOGRAPHY OF CHINA
GEOG 37084	GEOGRAPHY OF SOUTH AMERICA (DIVG)
GEOG 37085	GEOGRAPHY OF LATIN AMERICA AND THE CARIBBEAN (DIVG)
GEOG 41073	CONSERVATION OF NATURAL RESOURCES
GEOG 42053	GEOGRAPHIES OF MEMORY AND HERITAGE
GEOG 42064	SETTLING THE NORTH AMERICAN ENVIRONMENT
GEOG 42070	SEMINAR IN ETHNIC, LIFESTYLE AND NATIONAL COMMUNITIES
GEOG 44010	GEOGRAPHIES OF GLOBAL DEVELOPMENT (WIC)
GEOG 46080	URBAN SUSTAINABILITY
GEOG 46081	SEMINAR IN URBAN GEOGRAPHY

## Sociology Elective, choose from the following: 3

SOC 22100	SOCIOLOGICAL ANALYSIS
SOC 22778	SOCIAL PROBLEMS (DIVG) (KSS)
SOC 32400	INDIVIDUAL AND SOCIETY
SOC 32570	INEQUALITY IN SOCIETIES (DIVD)

**Additional Requirements (courses do not count in major GPA)**

Kent Core Basic Sciences (must include one laboratory)	3-4
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Minimum Total Credit Hours: 30

**Political Science Concentration Requirements**

Code	Title	Credit Hours
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**Concentration Requirements (courses count in maor GPA) (min C grade required in all courses)**

POL 10500	WORLD POLITICS (DIVG) (KSS)	3
POL 30002	POLITICAL THOUGHT	3
POL 30100	AMERICAN POLITICAL THEORY	3
or POL 30300	PUBLIC POLICY THEORY	
or POL 30500	INTERNATIONAL RELATIONS THEORY	
POL 30430	OHIO POLITICS	3
or POL 30450	URBAN POLITICS AND POLICY	

## American Government Elective, choose from the following: 3

POL 30110	THE CONGRESS
POL 30120	PRESIDENCY AND EXECUTIVE BUREAUCRACY
POL 30450	URBAN POLITICS AND POLICY
POL 40116	PUBLIC OPINION AND POLITICAL BEHAVIOR

POL 40118	POLITICAL PARTIES AND INTEREST GROUPS	
POL 40183	CONSTITUTIONAL LAW: CIVIL RIGHTS AND LIBERTIES (DIVD)	
International Relation/Comparative Politics Elective, choose from the following:		3
POL 30820	INTERNATIONAL ORGANIZATION AND LAW	
POL 30530	ASIAN POLITICS (DIVG)	
POL 30540	AFRICAN POLITICS (DIVG)	
POL 40540	POLITICS OF DEVELOPMENT (DIVG)	
POL 40560	HUMAN RIGHTS AND SOCIAL JUSTICE (DIVG)	
POL 40840	COMPARATIVE FOREIGN POLICY	
POL 40930	U.S. FOREIGN POLICY	
Geography Elective, choose from the following:		3
GEOG 32080	POLITICS AND PLACE (DIVG)	
GEOG 34070	ECONOMIC GEOGRAPHY	
GEOG 36065	CITIES AND URBANIZATION (DIVG)	
GEOG 37040	GEOGRAPHY OF AFRICA (DIVG)	
GEOG 37045	GEOGRAPHY OF THE MIDDLE EAST	
GEOG 37050	GEOGRAPHY OF RUSSIA AND THE COMMONWEALTH OF INDEPENDENT STATES (DIVG)	
GEOG 37066	GEOGRAPHY OF EUROPE (DIVG)	
GEOG 37070	GEOGRAPHY OF EAST AND SOUTHEAST ASIA (DIVG)	
GEOG 37072	GEOGRAPHY OF CHINA	
GEOG 37084	GEOGRAPHY OF SOUTH AMERICA (DIVG)	
GEOG 37085	GEOGRAPHY OF LATIN AMERICA AND THE CARIBBEAN (DIVG)	
GEOG 41073	CONSERVATION OF NATURAL RESOURCES	
GEOG 42053	GEOGRAPHIES OF MEMORY AND HERITAGE	
GEOG 42064	SETTLING THE NORTH AMERICAN ENVIRONMENT	
GEOG 42070	SEMINAR IN ETHNIC, LIFESTYLE AND NATIONAL COMMUNITIES	
GEOG 44010	GEOGRAPHIES OF GLOBAL DEVELOPMENT (WIC)	
GEOG 46080	URBAN SUSTAINABILITY	
GEOG 46081	SEMINAR IN URBAN GEOGRAPHY	
History Elective, choose from the following:		3
HIST 31035	THE GLOBAL COLD WAR	
HIST 31053	MODERN EUROPE, 1815 TO PRESENT	
HIST 31102	WAR AND SOCIETY IN THE UNITED STATES FROM 1865 TO THE PRESENT	
HIST 31106	PROGRESSIVE AMERICA: THE UNITED STATES, 1896-1919	
HIST 31107	NEW ERA THROUGH WORLD WAR: THE UNITED STATES, 1920-1945	
HIST 31108	RECENT AMERICA: THE UNITED STATES, 1945-PRESENT	
HIST 31112	CHINESE CIVILIZATION	
HIST 31113	HISTORY OF JAPAN	
HIST 31123	HISTORY OF POST COLONIAL AFRICA	
HIST 31130	HISTORY OF PRE-COLONIAL AFRICA TO 1880	
HIST 31140	MODERN LATIN AMERICA (DIVG)	
HIST 31141	EARLY LATIN AMERICA	
HIST 41060	COMPARATIVE FASCISM	
HIST 41085	THE SIXTIES IN AMERICA	
HIST 41129	THE HOLOCAUST:THE DESTRUCTION OF EUROPEAN JEWRY, 1938-1945	

HIST 41132	HISTORY OF COLONIAL AFRICA, 1880-1994	
Sociology Elective, choose from the following:		3
SOC 22100	SOCIOLOGICAL ANALYSIS	
SOC 22778	SOCIAL PROBLEMS (DIVG) (KSS)	
SOC 32400	INDIVIDUAL AND SOCIETY	
SOC 32570	INEQUALITY IN SOCIETIES (DIVD)	
<b>Additional Requirements (courses do not count in major GPA)</b>		
Kent Core Basic Sciences (must include one laboratory)		3-4
Minimum Total Credit Hours:		30

## Sociology Concentration Requirements

Code	Title	Credit Hours
<b>Concentration Requirements (courses count in major GPA) (min C grade required in all courses)</b>		
POL 10004	COMPARATIVE POLITICS (DIVG) (KSS)	3
or POL 10500	WORLD POLITICS (DIVG) (KSS)	
or POL 30002	POLITICAL THOUGHT	
POL 30100	AMERICAN POLITICAL THEORY	3
or POL 30820	INTERNATIONAL ORGANIZATION AND LAW	
or POL 40183	CONSTITUTIONAL LAW: CIVIL RIGHTS AND LIBERTIES (DIVD)	
SOC 22100	SOCIOLOGICAL ANALYSIS	3
SOC 22778	SOCIAL PROBLEMS (DIVG) (KSS)	3
or SOC 32400	INDIVIDUAL AND SOCIETY	
or SOC 32570	INEQUALITY IN SOCIETIES (DIVD)	
Sociology Electives, choose from the following:		9
SOC 32210	RESEARCHING SOCIETY (ELR) (WIC)	
SOC 32560	SOCIOLOGY OF FAMILIES (DIVD)	
SOC 32569	MINORITIES IN THE UNITED STATES (DIVD)	
SOC 32762	DEVIANT BEHAVIOR	
SOC 42315	SOCIOLOGY OF GENDER (DIVD)	
SOC 42478	ADOLESCENCE IN SOCIETY	
SOC 42577	SOCIOLOGY OF FAMILY VIOLENCE	
Geography Elective, choose from the following:		3
GEOG 32080	POLITICS AND PLACE (DIVG)	
GEOG 34070	ECONOMIC GEOGRAPHY	
GEOG 36065	CITIES AND URBANIZATION (DIVG)	
GEOG 37040	GEOGRAPHY OF AFRICA (DIVG)	
GEOG 37045	GEOGRAPHY OF THE MIDDLE EAST	
GEOG 37050	GEOGRAPHY OF RUSSIA AND THE COMMONWEALTH OF INDEPENDENT STATES (DIVG)	
GEOG 37066	GEOGRAPHY OF EUROPE (DIVG)	
GEOG 37070	GEOGRAPHY OF EAST AND SOUTHEAST ASIA (DIVG)	
GEOG 37072	GEOGRAPHY OF CHINA	
GEOG 37084	GEOGRAPHY OF SOUTH AMERICA (DIVG)	
GEOG 37085	GEOGRAPHY OF LATIN AMERICA AND THE CARIBBEAN (DIVG)	
GEOG 41073	CONSERVATION OF NATURAL RESOURCES	
GEOG 42053	GEOGRAPHIES OF MEMORY AND HERITAGE	
GEOG 42064	SETTLING THE NORTH AMERICAN ENVIRONMENT	
GEOG 42070	SEMINAR IN ETHNIC, LIFESTYLE AND NATIONAL COMMUNITIES	
GEOG 44010	GEOGRAPHIES OF GLOBAL DEVELOPMENT (WIC)	

GEOG 46080	URBAN SUSTAINABILITY	
GEOG 46081	SEMINAR IN URBAN GEOGRAPHY	
History Elective, choose from the following:		3
HIST 31035	THE GLOBAL COLD WAR	
HIST 31053	MODERN EUROPE, 1815 TO PRESENT	
HIST 31102	WAR AND SOCIETY IN THE UNITED STATES FROM 1865 TO THE PRESENT	
HIST 31106	PROGRESSIVE AMERICA: THE UNITED STATES, 1896-1919	
HIST 31107	NEW ERA THROUGH WORLD WAR: THE UNITED STATES, 1920-1945	
HIST 31108	RECENT AMERICA: THE UNITED STATES, 1945-PRESENT	
HIST 31112	CHINESE CIVILIZATION	
HIST 31113	HISTORY OF JAPAN	
HIST 31123	HISTORY OF POST COLONIAL AFRICA	
HIST 31130	HISTORY OF PRE-COLONIAL AFRICA TO 1880	
HIST 31140	MODERN LATIN AMERICA (DIVG)	
HIST 31141	EARLY LATIN AMERICA	
HIST 41060	COMPARATIVE FASCISM	
HIST 41085	THE SIXTIES IN AMERICA	
HIST 41129	THE HOLOCAUST: THE DESTRUCTION OF EUROPEAN JEWRY, 1938-1945	
HIST 41132	HISTORY OF COLONIAL AFRICA, 1880-1994	
<b>Additional Requirements (courses do not count in major GPA)</b>		
Kent Core Basic Sciences (must include one laboratory)		3-4
Minimum Total Credit Hours:		30

## Progression Requirements

Students must meet all professional requirements for admission to advanced study. To be admitted, students must display evidence of the following:

- Adequate communication skills
- Sound content area knowledge (language arts, mathematics, science or social studies)
- Basic understanding of the teaching profession
- Basic understanding of adolescents
- Dispositions aligned with the conceptual framework of the College of Education, Health and Human Services, including being open-minded, flexible, caring and responsible.

Faculty will select the most qualified applicants based on an interview; letters of recommendation; GPA<sup>1</sup>; Praxis Core scores; and performance in English studies coursework. Applicants to the Integrated Social Studies major must have experience working with young adults in a supervisory capacity, such as tutoring, camp counseling, volunteer work or related experience. Students should contact the College of Education, Health and Human Services' Vacca Office of Student Services, 304 White Hall, during the first year of study to inquire about the procedures and criteria associated with admission to advanced study.

<sup>1</sup> Undergraduate students who have not completed a minimum of 12 Kent State University credit hours will be evaluated for advanced study and professional phase based on their high school GPA for new freshmen or transfer GPA for transfer students.

## Graduation Requirements

Minimum Major GPA	Minimum Overall GPA
2.600	2.750

- A minimum C grade may be required in some courses.

## Double Majors/Dual Degrees

Students seeking to declare an additional teacher education major in the B.S.E. degree (double major), or in a different degree (dual degree) may have the double major/dual degree approved as long as the following requirements are met:

1. Approval is received from the academic unit administrating each major. A program of study for those interested in pursuing a double major must be approved in writing by faculty from each major area prior to admission to advanced study.
2. All required content courses are completed for each major
3. All required methods courses are completed for each major.
4. Separate practicum and inquiry courses are completed for each major as listed below:
  - a. ADED 42292 (or the equivalent required by the major outside the college)
  - b. ADED 49525 (or the equivalent required by the major outside the college)
5. Students who have two majors from among the following only need to take ADED 42392, consisting of a 16-week classroom experience involving both subject areas: Life Sciences, Earth Science, Physical Sciences, Integrated Science, Integrated Mathematics, Life Science/Chemistry, Integrated Social Studies and/or Integrated Language Arts.
6. Students who have a second major not included in the list above (#5) will have their student teaching requirements determined by faculty from both program areas at the time the program of study is developed, with a minimum 16 weeks spent in the classroom.

## Licensure information

Candidates seeking Ohio licensure are required to pass specific assessments in order to apply for licensure. See Ohio Department of Education-Educator Preparation website for more information on assessments specific to licensure type. Taking and passing the licensure tests prior to graduation is encouraged but not required.

Students must apply for State of Ohio Licensure (defined by completion of all licensure program requirements) within 12 months of program completion. After 12 months, applicants must meet State approved program/licensure requirements that are in effect at the time of application. This means that students who apply after the 12 month deadline may have to take additional coursework if the content, methods courses, program requirements, or licensure requirements have changed from the catalog in force.

## Roadmaps

- Economics
- Geography
- History
- Political Science
- Sociology





## Economics Concentration

This roadmap is a recommended semester-by-semester plan of study for this major. However, courses designated as critical (!) must be completed in the semester listed to ensure a timely graduation.

Semester One		Credits
HIST 11050	WORLD HISTORY: ANCIENT AND MEDIEVAL (DIVG) (KHUM)	3
HIST 12070	EARLY AMERICA: FROM PRE-COLONIZATION TO CIVIL WAR AND RECONSTRUCTION (DIVD) (KHUM)	3
UC 10097	DESTINATION KENT STATE: FIRST YEAR EXPERIENCE	1
Kent Core Requirement		3
Kent Core Requirement		3
Kent Core Requirement		3
Credit Hours		16

Semester Two		Credits
Requirement: Successful completion of Praxis Core Reading, Writing and Mathematics		
HIST 11051	WORLD HISTORY: MODERN (DIVG) (KHUM)	3
POL 10100	AMERICAN POLITICS (DIVD) (KSS)	3
PSYC 11762	GENERAL PSYCHOLOGY (DIVD) (KSS)	3
Kent Core Requirement		3
Kent Core Requirement		3
Credit Hours		15

Semester Three		Credits
Requirement: minimum 2.600 major GPA; minimum 2.750 overall GPA by end of the term		
ADED 20000	TOPICS IN SOCIAL JUSTICE IN TEACHING AND LEARNING	3
! ADED 22275	ISSUES AND TRENDS IN SOCIAL STUDIES EDUCATION	3
! CULT 29535	EDUCATION IN A DEMOCRATIC SOCIETY	3
ECON 22060	PRINCIPLES OF MICROECONOMICS (KSS)	3
HIST 12070	EARLY AMERICA: FROM PRE-COLONIZATION TO CIVIL WAR AND RECONSTRUCTION (DIVD) (KHUM)	3
SOC 12050	INTRODUCTION TO SOCIOLOGY (DIVD) (KSS)	3
Kent Core Requirement		3
Credit Hours		21

Semester Four		Credits
Requirement: minimum 2.750 overall GPA; minimum 2.600 major GPA		
ECON 22061	PRINCIPLES OF MACROECONOMICS (KSS)	3
! EPSY 29525	EDUCATIONAL PSYCHOLOGY	3
HIST 12071	MODERN AMERICA: FROM INDUSTRIALIZATION TO GLOBALIZATION (DIVD) (KHUM)	3
Geography Elective		3
Sociology Elective		3
Credit Hours		15

Semester Five		Credits
Requirement: minimum 2.600 major GPA; minimum 2.750 overall GPA		
! ADED 32142	PRINCIPLES OF TEACHING ADOLESCENTS (WIC)	3
POL 10004	COMPARATIVE POLITICS (DIVG) (KSS)	3
or	or WORLD POLITICS (DIVG) (KSS)	
POL 10500	or POLITICAL THOUGHT	
or		
POL 30002		

SPED 23000	INTRODUCTION TO EXCEPTIONALITIES (DIVD)	3
WMST 30000	COLLOQUIUM IN WOMEN'S STUDIES (DIVD)	3
Economics Elective		3
Credit Hours		15

Semester Six		Credits
Requirement: minimum 2.600 major GPA; minimum 2.750 overall GPA		
! ADED 32275	CURRICULUM AND PEDAGOGY IN SOCIAL STUDIES	3
ETEC 39525	EDUCATIONAL TECHNOLOGY	3
POL 30100	AMERICAN POLITICAL THEORY	3
or	or INTERNATIONAL ORGANIZATION AND LAW	
POL 30820	or CONSTITUTIONAL LAW: CIVIL RIGHTS AND LIBERTIES (DIVD)	
or		
POL 40183		
Economics Electives		6
History Elective		3
Credit Hours		18

Semester Seven		Credits
Requirement: minimum 2.600 major GPA; minimum 2.750 overall GPA		
! ADED 42275	TEACHING SOCIAL STUDIES IN GRADES 7 - 12	3
! ADED 42292	FIELD WORK PRACTICUM (ELR)	3
CI 47330	READING AND WRITING IN ADOLESCENCE/ADULTHOOD	3
Economics Elective		3
Psychology Elective		3
Credit Hours		15

Semester Eight		Credits
Requirement: minimum 2.600 major GPA; minimum 2.750 overall GPA		
! ADED 42392	SECONDARY STUDENT TEACHING (ELR)	9
! ADED 49525	INQUIRY INTO PROFESSIONAL PRACTICE	3
Credit Hours		12
Minimum Total Credit Hours:		127

## Geography Concentration

This roadmap is a recommended semester-by-semester plan of study for this major. However, courses designated as critical (!) must be completed in the semester listed to ensure a timely graduation.

Semester One		Credits
HIST 11050	WORLD HISTORY: ANCIENT AND MEDIEVAL (DIVG) (KHUM)	3
HIST 12070	EARLY AMERICA: FROM PRE-COLONIZATION TO CIVIL WAR AND RECONSTRUCTION (DIVD) (KHUM)	3
UC 10097	DESTINATION KENT STATE: FIRST YEAR EXPERIENCE	1
Kent Core Requirement		3
Kent Core Requirement		3
Kent Core Requirement		3
Credit Hours		16
Semester Two		
Requirement: Successful completion of Praxis Core Reading, Writing and Mathematics		
HIST 11051	WORLD HISTORY: MODERN (DIVG) (KHUM)	3
POL 10100	AMERICAN POLITICS (DIVD) (KSS)	3
PSYC 11762	GENERAL PSYCHOLOGY (DIVD) (KSS)	3
Kent Core Requirement		3
Kent Core Requirement		3
Credit Hours		15
Semester Three		
Requirement: minimum 2.600 major GPA; minimum 2.750 overall GPA by end of the term		
ADED 20000	TOPICS IN SOCIAL JUSTICE IN TEACHING AND LEARNING	3
! ADED 22275	ISSUES AND TRENDS IN SOCIAL STUDIES EDUCATION	3
! CULT 29535	EDUCATION IN A DEMOCRATIC SOCIETY	3
ECON 22060	PRINCIPLES OF MICROECONOMICS (KSS)	3
SOC 12050	INTRODUCTION TO SOCIOLOGY (DIVD) (KSS)	3
Credit Hours		15
Semester Four		
Requirement: minimum 2.750 overall GPA; minimum 2.600 major GPA		
ECON 22061	PRINCIPLES OF MACROECONOMICS (KSS)	3
! EPSY 29525	EDUCATIONAL PSYCHOLOGY	3
GEOG 21062	PHYSICAL GEOGRAPHY (KBS)	3
HIST 12071	MODERN AMERICA: FROM INDUSTRIALIZATION TO GLOBALIZATION (DIVD) (KHUM)	3
Sociology Elective		3
Credit Hours		15
Semester Five		
Requirement: minimum 2.600 major GPA; minimum 2.750 overall GPA		
! ADED 32142	PRINCIPLES OF TEACHING ADOLESCENTS (WIC)	3
GEOG 29160	MAPPING OUR WORLD	3
POL 10004	COMPARATIVE POLITICS (DIVG) (KSS)	3
or	or WORLD POLITICS (DIVG) (KSS)	
POL 10500	or POLITICAL THOUGHT	
or		
POL 30002		
SPED 23000	INTRODUCTION TO EXCEPTIONALITIES (DIVD)	3

WMST 30000	COLLOQUIUM IN WOMEN'S STUDIES (DIVD)	3
Credit Hours		15
Semester Six		
Requirement: minimum 2.600 major GPA; minimum 2.750 overall GPA		
! ADED 32275	CURRICULUM AND PEDAGOGY IN SOCIAL STUDIES	3
ETEC 39525	EDUCATIONAL TECHNOLOGY	3
GEOG 17063	WORLD GEOGRAPHY (DIVG) (KSS)	3
or	or GEOGRAPHY OF THE UNITED STATES AND CANADA (DIVD) (KSS)	
GEOG 17064		
POL 30100	AMERICAN POLITICAL THEORY	3
or	or INTERNATIONAL ORGANIZATION AND LAW	
POL 30820	or CONSTITUTIONAL LAW: CIVIL RIGHTS AND LIBERTIES (DIVD)	
or		
POL 40183		
International Geography Elective		3
History Elective		3
Credit Hours		18
Semester Seven		
Requirement: minimum 2.600 major GPA; minimum 2.750 overall GPA		
! ADED 42275	TEACHING SOCIAL STUDIES IN GRADES 7 - 12	3
! ADED 42292	FIELD WORK PRACTICUM (ELR)	3
CI 47330	READING AND WRITING IN ADOLESCENCE/ADULTHOOD	3
Geography Upper-Division Elective		3
Psychology Elective		3
General Elective		3
Credit Hours		18
Semester Eight		
Requirement: minimum 2.600 major GPA; minimum 2.750 overall GPA		
! ADED 42392	SECONDARY STUDENT TEACHING (ELR)	9
! ADED 49525	INQUIRY INTO PROFESSIONAL PRACTICE	3
Credit Hours		12
Minimum Total Credit Hours:		124

## History Concentration

This roadmap is a recommended semester-by-semester plan of study for this major. However, courses designated as critical (!) must be completed in the semester listed to ensure a timely graduation.

Semester One		Credits
HIST 11050	WORLD HISTORY: ANCIENT AND MEDIEVAL (DIVG) (KHUM)	3
HIST 12070	EARLY AMERICA: FROM PRE-COLONIZATION TO CIVIL WAR AND RECONSTRUCTION (DIVD) (KHUM)	3
UC 10097	DESTINATION KENT STATE: FIRST YEAR EXPERIENCE	1
Kent Core Requirement		3
Kent Core Requirement		3
Kent Core Requirement		3
Credit Hours		16
Semester Two		
Requirement: Successful completion of Praxis Core Reading, Writing and Mathematics		
HIST 11051	WORLD HISTORY: MODERN (DIVG) (KHUM)	3
POL 10100	AMERICAN POLITICS (DIVD) (KSS)	3
PSYC 11762	GENERAL PSYCHOLOGY (DIVD) (KSS)	3
Kent Core Requirement		3
Kent Core Requirement		3
Credit Hours		15
Semester Three		
Requirement: minimum 2.600 major GPA; minimum 2.750 overall GPA by end of the term		
ADED 20000	TOPICS IN SOCIAL JUSTICE IN TEACHING AND LEARNING	3
! ADED 22275	ISSUES AND TRENDS IN SOCIAL STUDIES EDUCATION	3
! CULT 29535	EDUCATION IN A DEMOCRATIC SOCIETY	3
ECON 22060	PRINCIPLES OF MICROECONOMICS (KSS)	3
HIST 12070	EARLY AMERICA: FROM PRE-COLONIZATION TO CIVIL WAR AND RECONSTRUCTION (DIVD) (KHUM)	3
SOC 12050	INTRODUCTION TO SOCIOLOGY (DIVD) (KSS)	3
Kent Core Requirement		3
Credit Hours		21
Semester Four		
Requirement: minimum 2.750 overall GPA; minimum 2.600 major GPA		
ECON 22061	PRINCIPLES OF MACROECONOMICS (KSS)	3
! EPSY 29525	EDUCATIONAL PSYCHOLOGY	3
HIST 12071	MODERN AMERICA: FROM INDUSTRIALIZATION TO GLOBALIZATION (DIVD) (KHUM)	3
POL 10004	COMPARATIVE POLITICS (DIVG) (KSS)	3
or	or WORLD POLITICS (DIVG) (KSS)	
POL 10500	or POLITICAL THOUGHT	
or		
POL 30002		
Sociology Elective		3
Credit Hours		15
Semester Five		
Requirement: minimum 2.600 major GPA; minimum 2.750 overall GPA		
! ADED 32142	PRINCIPLES OF TEACHING ADOLESCENTS (WIC)	3

POL 30100	AMERICAN POLITICAL THEORY	3
or	or INTERNATIONAL ORGANIZATION AND LAW	
POL 30820	or CONSTITUTIONAL LAW: CIVIL RIGHTS AND LIBERTIES (DIVD)	
or		
POL 40183		
SPED 23000	INTRODUCTION TO EXCEPTIONALITIES (DIVD)	3
WMST 30000	COLLOQUIUM IN WOMEN'S STUDIES (DIVD)	3
20th Century U.S. History Elective		3
Credit Hours		15
Semester Six		
Requirement: minimum 2.600 major GPA; minimum 2.750 overall GPA		
! ADED 32275	CURRICULUM AND PEDAGOGY IN SOCIAL STUDIES	3
ETEC 39525	EDUCATIONAL TECHNOLOGY	3
PAS 35100	BLACK SOCIAL AND POLITICAL THOUGHT	3
or	or AFRICAN SOCIAL AND POLITICAL SYSTEMS	
PAS 35200		
Geography Elective		3
Europe Since 1500 Elective		3
U.S. History Elective		3
Credit Hours		18
Semester Seven		
Requirement: minimum 2.600 major GPA; minimum 2.750 overall GPA		
! ADED 42275	TEACHING SOCIAL STUDIES IN GRADES 7 - 12	3
! ADED 42292	FIELD WORK PRACTICUM (ELR)	3
CI 47330	READING AND WRITING IN ADOLESCENCE/ADULTHOOD	3
Non-Western History Elective		3
Psychology Elective		3
Credit Hours		15
Semester Eight		
Requirement: minimum 2.600 major GPA; minimum 2.750 overall GPA		
! ADED 42392	SECONDARY STUDENT TEACHING (ELR)	9
! ADED 49525	INQUIRY INTO PROFESSIONAL PRACTICE	3
Credit Hours		12
Minimum Total Credit Hours:		127

## Political Science Concentration

This roadmap is a recommended semester-by-semester plan of study for this major. However, courses designated as critical (!) must be completed in the semester listed to ensure a timely graduation.

Semester One		Credits
HIST 11050	WORLD HISTORY: ANCIENT AND MEDIEVAL (DIVG) (KHUM)	3
HIST 12070	EARLY AMERICA: FROM PRE-COLONIZATION TO CIVIL WAR AND RECONSTRUCTION (DIVD) (KHUM)	3
UC 10097	DESTINATION KENT STATE: FIRST YEAR EXPERIENCE	1
Kent Core Requirement		3
Kent Core Requirement		3
Kent Core Requirement		3
Credit Hours		16
Semester Two		Credits
Requirement: Successful completion of Praxis Core Reading, Writing and Mathematics		
HIST 11051	WORLD HISTORY: MODERN (DIVG) (KHUM)	3
POL 10100	AMERICAN POLITICS (DIVD) (KSS)	3
PSYC 11762	GENERAL PSYCHOLOGY (DIVD) (KSS)	3
Kent Core Requirement		3
Kent Core Requirement		3
Credit Hours		15
Semester Three		Credits
Requirement: minimum 2.600 major GPA; minimum 2.750 overall GPA by end of the term		
ADED 20000	TOPICS IN SOCIAL JUSTICE IN TEACHING AND LEARNING	3
! ADED 22275	ISSUES AND TRENDS IN SOCIAL STUDIES EDUCATION	3
! CULT 29535	EDUCATION IN A DEMOCRATIC SOCIETY	3
ECON 22060	PRINCIPLES OF MICROECONOMICS (KSS)	3
HIST 12070	EARLY AMERICA: FROM PRE-COLONIZATION TO CIVIL WAR AND RECONSTRUCTION (DIVD) (KHUM)	3
SOC 12050	INTRODUCTION TO SOCIOLOGY (DIVD) (KSS)	3
Kent Core Requirement		3
Credit Hours		21
Semester Four		Credits
Requirement: minimum 2.750 overall GPA; minimum 2.600 major GPA		
ECON 22061	PRINCIPLES OF MACROECONOMICS (KSS)	3
! EPSY 29525	EDUCATIONAL PSYCHOLOGY	3
HIST 12071	MODERN AMERICA: FROM INDUSTRIALIZATION TO GLOBALIZATION (DIVD) (KHUM)	3
POL 10500	WORLD POLITICS (DIVG) (KSS)	3
Sociology Elective		3
Credit Hours		15
Semester Five		Credits
Requirement: minimum 2.600 major GPA; minimum 2.750 overall GPA		
! ADED 32142	PRINCIPLES OF TEACHING ADOLESCENTS (WIC)	3
POL 30002	POLITICAL THOUGHT	3
SPED 23000	INTRODUCTION TO EXCEPTIONALITIES (DIVD)	3
WMST 30000	COLLOQUIUM IN WOMEN'S STUDIES (DIVD)	3

Geography Elective		3
Credit Hours		15
Semester Six		Credits
Requirement: minimum 2.600 major GPA; minimum 2.750 overall GPA		
! ADED 32275	CURRICULUM AND PEDAGOGY IN SOCIAL STUDIES	3
ETEC 39525	EDUCATIONAL TECHNOLOGY	3
POL 30100	AMERICAN POLITICAL THEORY	3
or	or PUBLIC POLICY THEORY	
POL 30300	or INTERNATIONAL RELATIONS THEORY	
or		
POL 30500		
POL 30430	OHIO POLITICS	3
or	or URBAN POLITICS AND POLICY	
POL 30450		
American Government Elective		3
History Elective		3
Credit Hours		18
Semester Seven		Credits
Requirement: minimum 2.600 major GPA; minimum 2.750 overall GPA		
! ADED 42275	TEACHING SOCIAL STUDIES IN GRADES 7 - 12	3
! ADED 42292	FIELD WORK PRACTICUM (ELR)	3
CI 47330	READING AND WRITING IN ADOLESCENCE/ADULTHOOD	3
International Relation/Comparative Politics Elective		3
Psychology Elective		3
Credit Hours		15
Semester Eight		Credits
Requirement: minimum 2.600 major GPA; minimum 2.750 overall GPA		
! ADED 42392	SECONDARY STUDENT TEACHING (ELR)	9
! ADED 49525	INQUIRY INTO PROFESSIONAL PRACTICE	3
Credit Hours		12
Minimum Total Credit Hours:		127

## Sociology Concentration

This roadmap is a recommended semester-by-semester plan of study for this major. However, courses designated as critical (!) must be completed in the semester listed to ensure a timely graduation.

Semester One		Credits
HIST 11050	WORLD HISTORY: ANCIENT AND MEDIEVAL (DIVG) (KHUM)	3
HIST 12070	EARLY AMERICA: FROM PRE-COLONIZATION TO CIVIL WAR AND RECONSTRUCTION (DIVD) (KHUM)	3
UC 10097	DESTINATION KENT STATE: FIRST YEAR EXPERIENCE	1
Kent Core Requirement		3
Kent Core Requirement		3
Kent Core Requirement		3
Credit Hours		16
Semester Two		Credits
Requirement: Successful completion of Praxis Core Reading, Writing and Mathematics		
HIST 11051	WORLD HISTORY: MODERN (DIVG) (KHUM)	3
POL 10100	AMERICAN POLITICS (DIVD) (KSS)	3
PSYC 11762	GENERAL PSYCHOLOGY (DIVD) (KSS)	3
Kent Core Requirement		3
Kent Core Requirement		3
Credit Hours		15
Semester Three		Credits
Requirement: minimum 2.600 major GPA; minimum 2.750 overall GPA by end of the term		
ADED 20000	TOPICS IN SOCIAL JUSTICE IN TEACHING AND LEARNING	3
! ADED 22275	ISSUES AND TRENDS IN SOCIAL STUDIES EDUCATION	3
! CULT 29535	EDUCATION IN A DEMOCRATIC SOCIETY	3
ECON 22060	PRINCIPLES OF MICROECONOMICS (KSS)	3
HIST 12070	EARLY AMERICA: FROM PRE-COLONIZATION TO CIVIL WAR AND RECONSTRUCTION (DIVD) (KHUM)	3
! SOC 12050	INTRODUCTION TO SOCIOLOGY (DIVD) (KSS)	3
Kent Core Requirement		3
Credit Hours		21
Semester Four		Credits
Requirement: minimum 2.750 overall GPA; minimum 2.600 major GPA		
ECON 22061	PRINCIPLES OF MACROECONOMICS (KSS)	3
! EPSY 29525	EDUCATIONAL PSYCHOLOGY	3
HIST 12071	MODERN AMERICA: FROM INDUSTRIALIZATION TO GLOBALIZATION (DIVD) (KHUM)	3
POL 10004 or POL 10500 or POL 30002	COMPARATIVE POLITICS (DIVG) (KSS) or WORLD POLITICS (DIVG) (KSS) or POLITICAL THOUGHT	3
SOC 22778 or SOC 32400 or SOC 32570	SOCIAL PROBLEMS (DIVG) (KSS) or INDIVIDUAL AND SOCIETY or INEQUALITY IN SOCIETIES (DIVD)	3
Credit Hours		15

### Semester Five

Requirement: minimum 2.600 major GPA; minimum 2.750 overall GPA

! ADED 32142	PRINCIPLES OF TEACHING ADOLESCENTS (WIC)	3
SOC 22100	SOCIOLOGICAL ANALYSIS	3
SPED 23000	INTRODUCTION TO EXCEPTIONALITIES (DIVD)	3
WMST 30000	COLLOQUIUM IN WOMEN'S STUDIES (DIVD)	3
Geography Elective		3
Credit Hours		15

### Semester Six

Requirement: minimum 2.600 major GPA; minimum 2.750 overall GPA

! ADED 32275	CURRICULUM AND PEDAGOGY IN SOCIAL STUDIES	3
ETEC 39525	EDUCATIONAL TECHNOLOGY	3
POL 30100 or POL 30820 or POL 40183	AMERICAN POLITICAL THEORY or INTERNATIONAL ORGANIZATION AND LAW or CONSTITUTIONAL LAW: CIVIL RIGHTS AND LIBERTIES (DIVD)	3
History Elective		3
Sociology Electives		6
Credit Hours		18

### Semester Seven

Requirement: minimum 2.600 major GPA; minimum 2.750 overall GPA

! ADED 42275	TEACHING SOCIAL STUDIES IN GRADES 7 - 12	3
! ADED 42292	FIELD WORK PRACTICUM (ELR)	3
CI 47330	READING AND WRITING IN ADOLESCENCE/ADULTHOOD	3
Psychology Elective		3
Sociology Elective		3
Credit Hours		15

### Semester Eight

Requirement: minimum 2.750 overall GPA

! ADED 42392	SECONDARY STUDENT TEACHING (ELR)	9
! ADED 49525	INQUIRY INTO PROFESSIONAL PRACTICE	3
Credit Hours		12
Minimum Total Credit Hours:		127

## Integrated Social Studies Additional Licensure Preparation - Non-Degree

### College of Education Health and Human Services

School of Teaching, Learning and Curriculum Studies

404 White Hall

Kent Campus

330-672-2580

[www.kent.edu/ehhs/tlcs](http://www.kent.edu/ehhs/tlcs)

## Description

The Integrated Social Studies Additional Licensure Preparation non-degree program prepares students to obtain an additional teacher license in social studies for grades 7-12. Completion of the coursework is a prerequisite to being recommended by Kent State University for licensure,



which is granted by the Ohio Department of Education. This non-degree program cannot be used for students seeking initial licensure.

This program is not a master's degree. Students interested in a master's degree at Kent State must be fully admitted into and complete the requirements for the master's program, in addition to courses that are prescribed for additional licensure.

### Fully Offered At:

- Kent Campus

## Accreditation

National Council for Accreditation of Teacher Education

## Admission Requirements

Applicants will be assessed holistically, considering academic credentials; standardized test scores of reading, writing and mathematics; academic or professional references; non-academic dimensions; and other specific program criteria.

- Bachelor's degree from an accredited college or university
- Minimum 3.000 overall undergraduate GPA on a 4.000 point scale
- Official transcript(s)
- Goal statement
- Two letters of recommendation
- Questions in Anticipation of Licensure Form
- Evidence of valid four-year Resident Educator or five-year Professional State of Ohio teaching licensure

For more information about graduate admission, please visit the Graduate Studies website.

## Program Learning Outcomes

Completers of this non-degree program will be able to:

1. Plan and implement research-based instruction in the teaching of reading, literature, language and composition.
2. Implement response-centered literacy instruction that is culturally relevant and sustaining.
3. Implement fair and equitable assessment strategies to analyze students' literacy learning.
4. Engage in reflective practice and pursue continued professional growth and collaboration with colleagues.

## Program Requirements

### LICENSURE REQUIREMENTS

Code	Title	Credit Hours
<b>Licensure Requirements</b>		
ADED 67232	SECONDARY SCHOOL SOCIAL STUDIES	3
CI 57330	READING AND WRITING IN ADOLESCENCE/ADULTHOOD	3
EHHS 50092	PRACTICAL EXPERIENCE IN EDUCATION, HEALTH AND HUMAN SERVICES	1
Minimum Total Credit Hours:		7

## Graduation Requirements

- Minimum 3.000 overall GPA
- Additional Coursework: An analysis of additional content-area coursework required at the post-undergraduate level will be completed before entering into the program, and a Plan of Study will be created based on transcript analysis and current licensure requirements by the Ohio Department of Education. A minimum C grade is required in each of these courses. This coursework would be in addition to requirements for the Integrated Social Studies non-degree program.
- Minimum 2.600 content area GPA required for Adolescence to Young Adult 7-12 licensure.

## Licensure Information

Prior to program completion, the candidate must demonstrate proficiencies in the following areas (including but not limited to): Data literacy and analysis, use of research and assessment data, leadership and collaboration, utilizing and supporting appropriate technology for the discipline, and application of professional dispositions, laws and policies, codes of ethics and professional standards appropriate to their field of specialization.

Candidates seeking Ohio licensure are required to pass the OAE Content Knowledge Assessment for each teaching field in order to apply for licensure. Students should consult their advisors for specific program requirements and refer to the Ohio Department of Education-Educator Preparation website for more information on assessments specific to licensure type. Students who do not apply for license within 12 months of program completion may be subject to additional course requirements, based on Ohio licensure standards in force at the time of application.

## Life Science - B.S.E.

**College of Education Health and Human Services**  
 School of Teaching, Learning and Curriculum Studies  
 404 White Hall  
 Kent Campus  
 330-672-2580  
[www.kent.edu/ehhs/tlcs](http://www.kent.edu/ehhs/tlcs)

## Description

The Bachelor of Science in Education degree in Life Science prepares students for teacher licensure in life science, grades seven to 12. Students take a broad range of science-content courses in geology, chemistry and physics, and specialize in biology content. Students in the Life Science major complete most of their content coursework during their first three years; methods coursework typically begins during the spring of their third year. During the final year of the program, students complete remaining content courses, science teaching methods courses and a year-long placement in a local school district, which concludes with 13 weeks of student teaching in the spring. Life Science students are encouraged to meet with their advisor early in their program because many courses must be sequenced carefully.

### Fully Offered At:

- Kent Campus

## Accreditation

National Council for Accreditation of Teacher Education

## Admission Requirements

Admission to this major is selective. Admission to the college does not guarantee admission to a major and/or admission to professional coursework for a selective admission program. To be admitted directly into a teacher education program, it is required that new freshmen have a 2.750 high school GPA. Students who do not meet the GPA requirement at the time of admission for this major will be admitted to the EHHS General non-degree program until which time they have established a Kent State GPA of 2.750. They may then submit a change of program to declare this major.

**Current Kent State and Transfer Students:** Active Kent State students who wish to change their major must have attempted a minimum 12 credit hours at Kent State and meet all admission criteria listed above to be admitted. Students who have not attempted 12 credit hours at Kent State will be evaluated for admission based on their high school GPA for new students or transfer GPA for transfer students. Transfer students who have not attempted 12 credit hours of college-level coursework at Kent State and/or other institutions will be evaluated based on both their high school GPA and college GPA.

**English Language Proficiency Requirements for International Students:** All international students must provide proof of English language proficiency (unless they meet specific exceptions) by earning a minimum 525 TOEFL score (71 on the Internet-based version), minimum 75 MELAB score, minimum 6.0 IELTS score or minimum 48 PTE Academic score, or by completing the ELS level 112 Intensive Program. For more information on international admission, visit the Office of Global Education's admission website.

## Program Learning Outcomes

Graduates of this program will be able to:

1. Plan multiple lessons using a variety of inquiry approaches that demonstrate their knowledge and understanding of how to engage all students in learning science.
2. Plan a learning environment and learning experiences for all students that demonstrate chemical safety, safety procedures, and the ethical treatment of living organisms within their licensure area.
3. Plan fair and equitable assessment strategies to analyze student learning and to evaluate if the science learning goals are met.

## University Requirements

All students in a bachelor's degree program at Kent State University must complete the following university requirements for graduation.

**NOTE:** University requirements may be fulfilled in this program by specific course requirements. Please see Program Requirements for details.

Destination Kent State: First Year Experience	1
Course is not required for students with 25 transfer credits, excluding College Credit Plus, or age 21+ at time of admission.	
Diversity Domestic/Global (DIVD/DIVG)	2 courses

Students must successfully complete one domestic and one global course, of which one must be from the Kent Core.	
Experiential Learning Requirement (ELR)	varies
Students must successfully complete one course or approved experience.	
Kent Core (see table below)	36-37
Writing-Intensive Course (WIC)	1 course
Students must earn a minimum C grade in the course.	
Upper-Division Requirement	39 (or 42)
Students must successfully complete 39 upper-division (numbered 30000 to 49999) credit hours to graduate. Students in a B.A. and/or B.S. degree in the College of Arts and Sciences must complete 42 upper-division credit hours.	
Total Credit Hour Requirement	120
Some bachelor's degrees require students to complete more than 120 credit hours.	

## Kent Core Requirements

Kent Core Composition (KCMP)	6
Kent Core Mathematics and Critical Reasoning (KMCR)	3
Kent Core Humanities and Fine Arts (KHUM/KFA) (min one course each)	9
Kent Core Social Sciences (KSS) (must be from two disciplines)	6
Kent Core Basic Sciences (KBS/KLAB) (must include one laboratory)	6-7
Kent Core Additional (KADL)	6
<b>Total Credit Hours:</b>	<b>36-37</b>

## Program Requirements

### Major Requirements

Code	Title	Credit Hours
<b>Major Requirements (courses count in major GPA; min C grade required in all courses)</b>		
BSCI 10110	BIOLOGICAL DIVERSITY (KBS) (KLAB)	4
BSCI 10120	BIOLOGICAL FOUNDATIONS (KBS) (KLAB)	4
BSCI 30140	CELL BIOLOGY	4
BSCI 30156	ELEMENTS OF GENETICS	3
BSCI 30360	GENERAL ECOLOGY	4
BSCI 40163	EVOLUTION	3
CHEM 10060	GENERAL CHEMISTRY I (KBS)	4
CHEM 10061	GENERAL CHEMISTRY II (KBS)	4
CHEM 10062	GENERAL CHEMISTRY I LABORATORY (KBS) (KLAB)	1
CHEM 10063	GENERAL CHEMISTRY II LABORATORY (KBS) (KLAB)	1
CHEM 20481	BASIC ORGANIC CHEMISTRY I	4
CHEM 30284	INTRODUCTORY BIOLOGICAL CHEMISTRY	4
GEOL 11042	EARTH AND LIFE THROUGH TIME (KBS)	3
GEOL 11043	EARTH AND LIFE THROUGH TIME LABORATORY (KBS) (KLAB)	1
PHY 13001	GENERAL COLLEGE PHYSICS I (KBS)	4
PHY 13002	GENERAL COLLEGE PHYSICS II (KBS)	4
PHY 13021	GENERAL COLLEGE PHYSICS LABORATORY I (KBS) (KLAB)	1
PHY 13022	GENERAL COLLEGE PHYSICS LABORATORY II (KBS) (KLAB)	1
<b>Additional Requirements (courses do not count in major GPA)</b>		

ADED 20000	TOPICS IN SOCIAL JUSTICE IN TEACHING AND LEARNING (min C grade) <sup>1</sup>	3
ADED 32142	PRINCIPLES OF TEACHING ADOLESCENTS (WIC) (min C grade) <sup>1</sup>	3
ADED 32277	TEACHING SCIENCE IN SECONDARY SCHOOLS (min C grade) <sup>1</sup>	3
ADED 42277	TOPICS IN SECONDARY SCHOOL SCIENCE TEACHING (min C grade)	3
ADED 42292	FIELD WORK PRACTICUM (ELR) (min C grade) <sup>1</sup>	3
ADED 42392	SECONDARY STUDENT TEACHING (ELR) <sup>1</sup>	9
ADED 49525	INQUIRY INTO PROFESSIONAL PRACTICE (min C grade)	3
CI 47330	READING AND WRITING IN ADOLESCENCE/ADULTHOOD (min C grade)	3
CULT 29535	EDUCATION IN A DEMOCRATIC SOCIETY (min C grade)	3
EPSY 29525	EDUCATIONAL PSYCHOLOGY (min C grade)	3
ETEC 39525	EDUCATIONAL TECHNOLOGY (min C grade)	3
MATH 10041 or MATH 30011	INTRODUCTORY STATISTICS (KMCR) BASIC PROBABILITY AND STATISTICS	3-4
MATH 11010	ALGEBRA FOR CALCULUS (KMCR)	3
MATH 11022	TRIGONOMETRY (KMCR)	3
MATH 12002	ANALYTIC GEOMETRY AND CALCULUS I (KMCR)	5
PHIL 11001	INTRODUCTION TO PHILOSOPHY (DIVG) (KHUM)	3
PSYC 11762	GENERAL PSYCHOLOGY (DIVD) (KSS)	3
SOC 12050	INTRODUCTION TO SOCIOLOGY (DIVD) (KSS)	3
SPED 23000	INTRODUCTION TO EXCEPTIONALITIES (DIVD) (min C grade)	3
UC 10097	DESTINATION KENT STATE: FIRST YEAR EXPERIENCE	1
Kent Core Composition (min C grade)		6
Kent Core Humanities and Fine Arts (minimum one from each)		6
Minimum Total Credit Hours:		132

<sup>1</sup> Teacher candidates are only permitted to repeat a field experience course once. Please see Repeating Field Experience Courses in Teacher Education Programs policy for details.

## Progression Requirements

Students must meet all professional requirements for admission to advanced study. To be admitted, students must display evidence of the following:

- Adequate communication skills
- Sound content area knowledge (language arts, mathematics, science or social studies)
- Basic understanding of the teaching profession
- Basic understanding of adolescents
- Dispositions aligned with the conceptual framework of the College of Education, Health and Human Services, including being open-minded, flexible, caring and responsible

Faculty will select the most qualified applicants based on an interview; letters of recommendation; GPA<sup>1</sup>; Praxis Core scores; and performance in English and communication studies coursework.

Applicants must have experience working with young adults in a supervisory capacity, such as tutoring, camp counseling, volunteer work or related experience. Students should contact the College of Education, Health, and Human Services' Vacca Office of Student Services, 304 White Hall, during the first year of study to inquire about the procedures and criteria associated with admission to advanced study.

<sup>1</sup> Undergraduate students who have not completed a minimum of 12 Kent State University credit hours will be evaluated for advanced study and professional phase based on their high school GPA for new freshmen or transfer GPA for transfer students.

## Graduation Requirements

Minimum Major GPA	Minimum Overall GPA
2.600	2.750

## Double Majors/Dual Degrees

Students in the this major seeking to declare an additional teacher education major in the B.S.E. degree (double major) or in a different degree (dual degree) may have the double major/dual degree approved as long as the following requirements are met:

1. Approval is received from the academic unit administrating each major. A program of study for those interested in pursuing a double major must be approved in writing by faculty from each major area prior to admission to advanced study.
2. All required content courses are completed for each major
3. All required methods courses are completed for each major.
4. Separate practicum and inquiry courses are completed for each major as listed below:
  - a. ADED 42292 (or the equivalent required by the major outside the college)
  - b. ADED 49525 (or the equivalent required by the major outside the college)
5. Students who have two majors from among the following only need to take ADED 42392, consisting of a 16-week classroom experience involving both subject areas: Life Sciences, Earth Science, Physical Sciences, Integrated Science, Integrated Mathematics, Life Science/Chemistry, Integrated Social Studies and/or Integrated Language Arts.
6. Students who have a second major not included in the list above (#5) will have their student teaching requirements determined by faculty from both program areas at the time the program of study is developed, with a minimum 16 weeks spent in the classroom.

## Licensure information

Candidates seeking Ohio licensure are required to pass specific assessments in order to apply for licensure. See Ohio Department of Education-Educator Preparation website for more information on assessments specific to licensure type. Taking and passing the licensure tests prior to graduation is encouraged but not required.

Students must apply for State of Ohio Licensure (defined by completion of all licensure program requirements) within 12 months of program completion. After 12 months, applicants must meet State approved program/licensure requirements that are in effect at the time of application. This means that students who apply after the 12 month deadline may have to take additional coursework if the content, methods courses, program requirements, or licensure requirements have changed from the catalog in force.



## Roadmap

This roadmap is a recommended semester-by-semester plan of study for this major. However, courses designated as critical (!) must be completed in the semester listed to ensure a timely graduation.

Semester One		Credits
!	BSCI 10110 BIOLOGICAL DIVERSITY (KBS) (KLAB)	4
	MATH 11010 ALGEBRA FOR CALCULUS (KMCR)	3
	PSYC 11762 GENERAL PSYCHOLOGY (DIVD) (KSS)	3
	UC 10097 DESTINATION KENT STATE: FIRST YEAR EXPERIENCE	1
	Kent Core Requirement	3
	Kent Core Requirement	3
Credit Hours		17
Semester Two		
Requirement: Successful completion of Praxis Core Reading, Writing and Mathematics		
!	BSCI 10120 BIOLOGICAL FOUNDATIONS (KBS) (KLAB)	4
!	CULT 29535 EDUCATION IN A DEMOCRATIC SOCIETY	3
	MATH 11022 TRIGONOMETRY (KMCR)	3
	SOC 12050 INTRODUCTION TO SOCIOLOGY (DIVD) (KSS)	3
	SPED 23000 INTRODUCTION TO EXCEPTIONALITIES (DIVD)	3
Credit Hours		16
Semester Three		
Requirement: minimum 2.600 major GPA; Note: minimum 2.750 overall GPA by end of term		
!	CHEM 10060 GENERAL CHEMISTRY I (KBS)	4
!	CHEM 10062 GENERAL CHEMISTRY I LABORATORY (KBS) (KLAB)	1
	GEOL 11042 EARTH AND LIFE THROUGH TIME (KBS)	3
	GEOL 11043 EARTH AND LIFE THROUGH TIME LABORATORY (KBS) (KLAB)	1
!	MATH 12002 ANALYTIC GEOMETRY AND CALCULUS I (KMCR)	5
	Kent Core Requirement	3
Credit Hours		17
Semester Four		
Requirement: minimum 2.750 overall GPA and minimum 2.600 major GPA		
	ADED 20000 TOPICS IN SOCIAL JUSTICE IN TEACHING AND LEARNING	3
	BSCI 30156 ELEMENTS OF GENETICS	3
!	CHEM 10061 GENERAL CHEMISTRY II (KBS)	4
!	CHEM 10063 GENERAL CHEMISTRY II LABORATORY (KBS) (KLAB)	1
!	EPSY 29525 EDUCATIONAL PSYCHOLOGY	3
	PHIL 11001 INTRODUCTION TO PHILOSOPHY (DIVG) (KHUM)	3
Credit Hours		17
Semester Five		
Requirement: minimum 2.750 overall GPA; minimum 2.600 major GPA		
!	ADED 32142 PRINCIPLES OF TEACHING ADOLESCENTS (WIC)	3
	CHEM 20481 BASIC ORGANIC CHEMISTRY I	4
	CI 47330 READING AND WRITING IN ADOLESCENCE/ADULTHOOD	3
	EETC 39525 EDUCATIONAL TECHNOLOGY	3
	PHY 13001 GENERAL COLLEGE PHYSICS I (KBS)	4

PHY 13021	GENERAL COLLEGE PHYSICS LABORATORY I (KBS) (KLAB)	1
Credit Hours		18
Semester Six		
Requirement: minimum 2.750 overall GPA; minimum 2.600 major GPA		
!	ADED 32277 TEACHING SCIENCE IN SECONDARY SCHOOLS	3
	BSCI 40163 EVOLUTION	3
	CHEM 30284 INTRODUCTORY BIOLOGICAL CHEMISTRY	4
	PHY 13002 GENERAL COLLEGE PHYSICS II (KBS)	4
	PHY 13022 GENERAL COLLEGE PHYSICS LABORATORY II (KBS) (KLAB)	1
Kent Core Requirement		3
Credit Hours		18
Semester Seven		
Requirement: minimum 2.750 overall GPA; minimum 2.600 major GPA		
!	ADED 42277 TOPICS IN SECONDARY SCHOOL SCIENCE TEACHING	3
!	ADED 42292 FIELD WORK PRACTICUM (ELR)	3
	BSCI 30140 CELL BIOLOGY	4
	BSCI 30360 GENERAL ECOLOGY	4
	MATH 10041 INTRODUCTORY STATISTICS (KMCR) or BASIC PROBABILITY AND STATISTICS	3-4
	or MATH 30011	
Credit Hours		17
Semester Eight		
Requirement: minimum 2.750 overall GPA; minimum 2.600 major GPA		
!	ADED 42392 SECONDARY STUDENT TEACHING (ELR)	9
!	ADED 49525 INQUIRY INTO PROFESSIONAL PRACTICE	3
Credit Hours		12
Minimum Total Credit Hours:		132

## Life Science/Chemistry - B.S.E.

**College of Education Health and Human Services**  
 School of Teaching, Learning and Curriculum Studies  
 404 White Hall  
 Kent Campus  
 330-672-2580  
[www.kent.edu/ehhs/tlcs](http://www.kent.edu/ehhs/tlcs)

## Description

The Bachelor of Science in Education degree in Life Science/Chemistry prepares students for teacher licensure in life science and chemistry, grades seven to 12. Students take a broad range of science-content courses in geology and physics and specialize in biology and chemistry content. Students complete most content coursework during their first three years; methods coursework typically begins during the spring of their third year. During the final year of the program, students complete remaining content courses, science teaching methods courses and a year-long placement in a local school district, which concludes with 13 weeks of student teaching in the spring. Life Science/Chemistry students are encouraged to meet with their advisor early in their programs as many courses must be sequenced carefully.



## Fully Offered At:

- Kent Campus

## Accreditation

National Council for Accreditation of Teacher Education

## Admission Requirements

Admission to this major is selective. Admission to the college does not guarantee admission to a major and/or admission to professional coursework for a selective admission program. To be admitted directly into a teacher education program, it is required that new freshmen have a 2.750 high school GPA. Students who do not meet the GPA requirements of their intended major may enroll into EHHS General until which time they have established a Kent State GPA of 2.750.

**Current Kent State and Transfer Students:** Active Kent State students who wish to change their major must have attempted a minimum 12 credit hours at Kent State and meet all admission criteria listed above to be admitted. Students who have not attempted 12 credit hours at Kent State will be evaluated for admission based on their high school GPA for new students or transfer GPA for transfer students. Transfer students who have not attempted 12 credit hours of college-level coursework at Kent State and/or other institutions will be evaluated based on both their high school GPA and college GPA.

### English Language Proficiency Requirements for International Students:

All international students must provide proof of English language proficiency (unless they meet specific exceptions) by earning a minimum 525 TOEFL score (71 on the Internet-based version), minimum 75 MELAB score, minimum 6.0 IELTS score or minimum 48 PTE Academic score, or by completing the ELS level 112 Intensive Program. For more information on international admission, visit the Office of Global Education's admission website.

## Program Learning Outcomes

Graduates of this program will be able to:

1. Plan multiple lessons using a variety of inquiry approaches that demonstrate their knowledge and understanding of how to engage all students in learning science.
2. Plan a learning environment and learning experiences for all students that demonstrate chemical safety, safety procedures, and the ethical treatment of living organisms within their licensure area.
3. Plan fair and equitable assessment strategies to analyze student learning and to evaluate if the science learning goals are met.

## University Requirements

All students in a bachelor's degree program at Kent State University must complete the following university requirements for graduation.

**NOTE:** University requirements may be fulfilled in this program by specific course requirements. Please see Program Requirements for details.

Destination Kent State: First Year Experience	1
Course is not required for students with 25 transfer credits, excluding College Credit Plus, or age 21+ at time of admission.	
Diversity Domestic/Global (DIVD/DIVG)	2 courses
Students must successfully complete one domestic and one global course, of which one must be from the Kent Core.	
Experiential Learning Requirement (ELR)	varies
Students must successfully complete one course or approved experience.	
Kent Core (see table below)	36-37
Writing-Intensive Course (WIC)	1 course
Students must earn a minimum C grade in the course.	
Upper-Division Requirement	39 (or 42)
Students must successfully complete 39 upper-division (numbered 30000 to 49999) credit hours to graduate. Students in a B.A. and/or B.S. degree in the College of Arts and Sciences must complete 42 upper-division credit hours.	
Total Credit Hour Requirement	120
Some bachelor's degrees require students to complete more than 120 credit hours.	

## Kent Core Requirements

Kent Core Composition (KCMP)	6
Kent Core Mathematics and Critical Reasoning (KMCR)	3
Kent Core Humanities and Fine Arts (KHUM/KFA) (min one course each)	9
Kent Core Social Sciences (KSS) (must be from two disciplines)	6
Kent Core Basic Sciences (KBS/KLAB) (must include one laboratory)	6-7
Kent Core Additional (KADL)	6
<b>Total Credit Hours:</b>	<b>36-37</b>

## Program Requirements

### Major Requirements

Code	Title	Credit Hours
<b>Major Requirements (courses count in major GPA; min C grade required in all courses)</b>		
BSCI 10110	BIOLOGICAL DIVERSITY (KBS) (KLAB)	4
BSCI 10120	BIOLOGICAL FOUNDATIONS (KBS) (KLAB)	4
BSCI 30140	CELL BIOLOGY	4
BSCI 30156	ELEMENTS OF GENETICS	3
BSCI 30360	GENERAL ECOLOGY	4
BSCI 40163	EVOLUTION	3
CHEM 10060	GENERAL CHEMISTRY I (KBS)	4
CHEM 10061	GENERAL CHEMISTRY II (KBS)	4
CHEM 10062	GENERAL CHEMISTRY I LABORATORY (KBS) (KLAB)	1
CHEM 10063	GENERAL CHEMISTRY II LABORATORY (KBS) (KLAB)	1
CHEM 20481	BASIC ORGANIC CHEMISTRY I	4
CHEM 30105	ANALYTICAL CHEMISTRY I	3
CHEM 30284	INTRODUCTORY BIOLOGICAL CHEMISTRY	4
CHEM 30301	INORGANIC CHEMISTRY I	2
CHEM 30475	ORGANIC CHEMISTRY LABORATORY I (ELR)	1
GEOL 11040	HOW THE EARTH WORKS (KBS)	3
GEOL 11041	HOW THE EARTH WORKS LABORATORY (KBS) (KLAB)	1

PHY 13001	GENERAL COLLEGE PHYSICS I (KBS)	4
PHY 13002	GENERAL COLLEGE PHYSICS II (KBS)	4
PHY 13021	GENERAL COLLEGE PHYSICS LABORATORY I (KBS) (KLAB)	1
PHY 13022	GENERAL COLLEGE PHYSICS LABORATORY II (KBS) (KLAB)	1
<b>Additional Requirements (courses do not count in major GPA)</b>		
ADED 20000	TOPICS IN SOCIAL JUSTICE IN TEACHING AND LEARNING (min C grade) <sup>1</sup>	3
ADED 32142	PRINCIPLES OF TEACHING ADOLESCENTS (WIC) (min C grade) <sup>1</sup>	3
ADED 32277	TEACHING SCIENCE IN SECONDARY SCHOOLS (min C grade) <sup>1</sup>	3
ADED 42277	TOPICS IN SECONDARY SCHOOL SCIENCE TEACHING (min C grade)	3
ADED 42292	FIELD WORK PRACTICUM (ELR) (min C grade) <sup>1</sup>	3
ADED 42392	SECONDARY STUDENT TEACHING (ELR) <sup>1</sup>	9
ADED 49525	INQUIRY INTO PROFESSIONAL PRACTICE (min C grade)	3
CI 47330	READING AND WRITING IN ADOLESCENCE/ADULTHOOD (min C grade)	3
CULT 29535	EDUCATION IN A DEMOCRATIC SOCIETY (min C grade)	3
EPSY 29525	EDUCATIONAL PSYCHOLOGY (min C grade)	3
ETEC 39525	EDUCATIONAL TECHNOLOGY (min C grade)	3
MATH 10041	INTRODUCTORY STATISTICS (KMCR)	3-4
or MATH 30011	BASIC PROBABILITY AND STATISTICS	
MATH 11010	ALGEBRA FOR CALCULUS (KMCR)	3
MATH 11022	TRIGONOMETRY (KMCR)	3
MATH 12002	ANALYTIC GEOMETRY AND CALCULUS I (KMCR)	5
PHIL 11001	INTRODUCTION TO PHILOSOPHY (DIVG) (KHUM)	3
PSYC 11762	GENERAL PSYCHOLOGY (DIVD) (KSS)	3
SOC 12050	INTRODUCTION TO SOCIOLOGY (DIVD) (KSS)	3
SPED 23000	INTRODUCTION TO EXCEPTIONALITIES (DIVD) (min C grade)	3
UC 10097	DESTINATION KENT STATE: FIRST YEAR EXPERIENCE	1
Kent Core Composition (min C grade)		6
Kent Core Humanities and Fine Arts (minimum one from each)		6
Minimum Total Credit Hours:		138

<sup>1</sup> Teacher candidates are only permitted to repeat a field experience course once. Please see Repeating Field Experience Courses in Teacher Education Programs policy for details.

## Progression Requirements

Students must meet all professional requirements for admission to advanced study. To be admitted, students must display evidence of the following:

- Adequate communication skills
- Sound content area knowledge (language arts, mathematics, science or social studies)
- Basic understanding of the teaching profession
- Basic understanding of adolescents

- Dispositions aligned with the conceptual framework of the College of Education, Health and Human Services, including being open-minded, flexible, caring and responsible.

Faculty will select the most qualified applicants based on an interview; letters of recommendation; GPA <sup>1</sup>; Praxis Core scores; and performance in English and communication studies coursework. Applicants to the Life Science/Chemistry major must have experience working with young adults in a supervisory capacity, such as tutoring, camp counseling, volunteer work or related experience. Students should contact the College of Education, Health and Human Services' Vacca Office of Student Services, 304 White Hall, during the first year of study to inquire about the procedures and criteria associated with advanced study.

<sup>1</sup> Undergraduate students who have not completed a minimum of 12 Kent State University credit hours will be evaluated for advanced study and professional phase based on their high school GPA for new freshmen or transfer GPA for transfer students.

## Graduation Requirements

Minimum Major GPA	Minimum Overall GPA
2.600	2.750

## Double Majors/Dual Degrees

Students in the this major seeking to declare an additional teacher education major in the B.S.E. degree (double major), or in a different degree (dual degree) may have the double major/dual degree approved as long as the following requirements are met:

1. Approval is received from the academic unit administrating each major. A program of study for those interested in pursuing a double major must be approved in writing by faculty from each major area prior to admission to advanced study.
2. All required content courses are completed for each major
3. All required methods courses are completed for each major.
4. Separate practicum and inquiry courses are completed for each major as listed below:
  - a. ADED 42292 (or the equivalent required by the major outside the college)
  - b. ADED 49525 (or the equivalent required by the major outside the college)
5. Students who have two majors from among the following only need to take ADED 42392, consisting of a 16-week classroom experience involving both subject areas: Life Sciences, Earth Science, Physical Sciences, Integrated Science, Integrated Mathematics, Life Science/Chemistry, Integrated Social Studies and/or Integrated Language Arts.
6. Students who have a second major not included in the list above (#5) will have their student teaching requirements determined by faculty from both program areas at the time the program of study is developed, with a minimum 16 weeks spent in the classroom.

## Licensure information

Candidates seeking Ohio licensure are required to pass specific assessments in order to apply for licensure. See the Ohio Department of Education-Educator Preparation website for more information on assessments specific to licensure type. Taking and passing the licensure tests prior to graduation is encouraged but not required.

Students must apply for State of Ohio Licensure (defined by completion of all licensure program requirements) within 12 months of program

completion. After 12 months, applicants must meet State approved program/licensure requirements that are in effect at the time of application. This means that students who apply after the 12 month deadline may have to take additional coursework if the content, methods courses, program requirements, or licensure requirements have changed from the catalog in force.

## Roadmap

This roadmap is a recommended semester-by-semester plan of study for this major. However, courses designated as critical (!) must be completed in the semester listed to ensure a timely graduation.

Semester One		Credits
!	BSCI 10110 BIOLOGICAL DIVERSITY (KBS) (KLAB)	4
	MATH 11010 ALGEBRA FOR CALCULUS (KMCR)	3
	PHIL 11001 INTRODUCTION TO PHILOSOPHY (DIVG) (KHUM)	3
	PSYC 11762 GENERAL PSYCHOLOGY (DIVD) (KSS)	3
	UC 10097 DESTINATION KENT STATE: FIRST YEAR EXPERIENCE	1
Kent Core Requirement		3
Credit Hours		17
Semester Two		
Requirement: Successful completion of Praxis Core Reading, Writing and Mathematics		
!	BSCI 10120 BIOLOGICAL FOUNDATIONS (KBS) (KLAB)	4
!	CULT 29535 EDUCATION IN A DEMOCRATIC SOCIETY	3
	MATH 11022 TRIGONOMETRY (KMCR)	3
	SOC 12050 INTRODUCTION TO SOCIOLOGY (DIVD) (KSS)	3
Kent Core Requirement		3
Kent Core Requirement		3
Credit Hours		19
Semester Three		
Requirement: minimum 2.750 overall GPA by end of term; minimum 2.600 major GPA		
!	CHEM 10060 GENERAL CHEMISTRY I (KBS)	4
!	CHEM 10062 GENERAL CHEMISTRY I LABORATORY (KBS) (KLAB)	1
	GEOL 11040 HOW THE EARTH WORKS (KBS)	3
	GEOL 11041 HOW THE EARTH WORKS LABORATORY (KBS) (KLAB)	1
!	MATH 12002 ANALYTIC GEOMETRY AND CALCULUS I (KMCR)	5
Kent Core Requirement		3
Credit Hours		17
Semester Four		
Requirement: minimum 2.750 overall GPA and minimum 2.600 major GPA		
	ADED 20000 TOPICS IN SOCIAL JUSTICE IN TEACHING AND LEARNING	3
	BSCI 30156 ELEMENTS OF GENETICS	3
!	CHEM 10061 GENERAL CHEMISTRY II (KBS)	4
!	CHEM 10063 GENERAL CHEMISTRY II LABORATORY (KBS) (KLAB)	1
!	EPSY 29525 EDUCATIONAL PSYCHOLOGY	3
	PHY 13001 GENERAL COLLEGE PHYSICS I (KBS)	4
	PHY 13021 GENERAL COLLEGE PHYSICS LABORATORY I (KBS) (KLAB)	1
Credit Hours		19
Semester Five		
Requirement: minimum 2.750 overall GPA; minimum 2.600 major GPA		
!	ADED 32142 PRINCIPLES OF TEACHING ADOLESCENTS (WIC)	3
	CHEM 20481 BASIC ORGANIC CHEMISTRY I	4
	CI 47330 READING AND WRITING IN ADOLESCENCE/ADULTHOOD	3
	ETEC 39525 EDUCATIONAL TECHNOLOGY	3

	PHY 13002 GENERAL COLLEGE PHYSICS II (KBS)	4
	PHY 13022 GENERAL COLLEGE PHYSICS LABORATORY II (KBS) (KLAB)	1
Credit Hours		18
Semester Six		
Requirement: minimum 2.750 overall GPA; minimum 2.600 major GPA		
!	ADED 32277 TEACHING SCIENCE IN SECONDARY SCHOOLS	3
	BSCI 40163 EVOLUTION	3
	CHEM 30284 INTRODUCTORY BIOLOGICAL CHEMISTRY	4
	CHEM 30301 INORGANIC CHEMISTRY I	2
	MATH 10041 INTRODUCTORY STATISTICS (KMCR) or MATH 30011 or BASIC PROBABILITY AND STATISTICS	3-4
	SPED 23000 INTRODUCTION TO EXCEPTIONALITIES (DIVD)	3
Credit Hours		18
Semester Seven		
Requirement: minimum 2.750 overall GPA; minimum 2.600 major GPA		
!	ADED 42277 TOPICS IN SECONDARY SCHOOL SCIENCE TEACHING	3
!	ADED 42292 FIELD WORK PRACTICUM (ELR)	3
	BSCI 30140 CELL BIOLOGY	4
	BSCI 30360 GENERAL ECOLOGY	4
	CHEM 30105 ANALYTICAL CHEMISTRY I	3
	CHEM 30475 ORGANIC CHEMISTRY LABORATORY I (ELR)	1
Credit Hours		18
Semester Eight		
Requirement: minimum 2.750 overall GPA; minimum 2.600 major GPA		
!	ADED 42392 SECONDARY STUDENT TEACHING (ELR)	9
!	ADED 49525 INQUIRY INTO PROFESSIONAL PRACTICE	3
Credit Hours		12
Minimum Total Credit Hours:		138

## Middle Childhood Education (4-9) Language Arts/Reading and Mathematics Initial Licensure Preparation - Non-Degree

**College of Education Health and Human Services**  
School of Teaching, Learning and Curriculum Studies  
404 White Hall  
Kent Campus  
330-672-2580  
[www.kent.edu/ehhs/tlcs](http://www.kent.edu/ehhs/tlcs)

### Description

This Middle Childhood Education (4-9) Language Arts/Reading and Mathematics Initial Licensure Preparation non-degree program will prepare students to obtain the Ohio Middle Childhood 4-9 license in Language Arts/Reading and Mathematics. Completion of the prescribed coursework is a prerequisite to being recommended by Kent State University for licensure, and licenses are granted by the Ohio Department of Education. The program includes intensive pedagogy courses that prepare students to understand the unique social, physical, cognitive, and

emotional needs of the young adolescent; these courses are taken as a cohort. Student teaching occurs during the final semester of the program.

The non-degree program is not a master's degree program. Students interested in obtaining a teaching license and a master's degree from Kent State University must also be fully admitted into a master's degree program and complete the prescribed coursework on the master's degree prospectus, in addition to courses that are prescribed here for licensure.

### Fully Offered At:

- Kent Campus

## Admission Requirements

Applicants will be assessed holistically, considering academic credentials; standardized test scores of reading, writing, and mathematics; academic or professional references; nonacademic dimensions; and other specific program criteria.

- Bachelor's degree from an accredited institution
- Official transcript(s)
- Minimum 3.000 overall GPA
- Goal statement
- Two letters of recommendation
- Praxis Core tests in reading, writing, and mathematics<sup>1</sup>
- Questions in Anticipation of Licensure form
- Is NOT an already-licensed teacher in Ohio (any level)
- An interview will be conducted prior to full acceptance into the program.

<sup>1</sup> All initial teacher licensure candidates are required to demonstrate basic competency in reading, writing and mathematics prior to admission. To demonstrate these competencies, students are required to take the Praxis Core tests in Reading, Mathematics, and Writing unless exempted by GRE scores fewer than five years old at the time of application. In order to gain exemption from Praxis CORE requirements, a student must achieve at or above the 50th percentile scores on the GRE Verbal, Quantitative, and Analytical Writing tests. Students who have not taken the GRE are strongly encouraged to take the Praxis CORE tests to demonstrate these competencies, rather than GRE. Further information is available in the Office of Graduate Student Services, 418 White Hall.

#### Competency Test Equivalents:

- Reading: GRE Verbal Reasoning/Praxis CORE Reading
- Mathematics: GRE Quantitative Reasoning/Praxis CORE Mathematics
- Writing: GRE Analytical Writing/Praxis CORE Writing

## Program Learning Outcomes

Completers of this non-degree program will be able to:

1. Describe the Ohio Standards for the Teaching Profession
2. Describe the Ohio Standards for Professional Development
3. Describe the Ohio School Operating Standards
4. Describe the Ohio Value Added Progress Dimension(s)
5. Demonstrate knowledge and skills consistent with the AMLE standards.
6. Demonstrate knowledge and skills identified in CAEP Initial Standards

## Program Requirements

### Licensure Requirements

Code	Title	Credit Hours
<b>Licensure Requirements (min C grade required in all courses)</b>		
CI 57501	TEACHING MATHEMATICS IN EARLY AND MIDDLE GRADES	3
or CI 67226	IMPROVING MATHEMATICS INSTRUCTION IN MIDDLE CHILDHOOD	
CI 61130	MULTICULTURAL EDUCATION: STRATEGIES	3
or CI 67005	INTERCULTURAL DIMENSIONS OF TEACHING AND LEARNING	
or CULT 65530	FOUNDATIONS OF EDUCATION AND HUMAN SERVICES	
CI 67107	CURRICULUM AND ORGANIZATION IN THE MIDDLE GRADES	3
or MCED 41000	CURRICULUM AND ORGANIZATION IN MIDDLE CHILDHOOD	
CI 67108	TEACHING AND LEARNING IN THE MIDDLE GRADES	3
or MCED 31000	TEACHING AND LEARNING IN MIDDLE CHILDHOOD	
EPSY 65524	LEARNING THEORIES	3
ETEC 57400	TRENDS IN EDUCATIONAL TECHNOLOGY	3
HDFS 64027	EARLY ADOLESCENCE	3
MCED 30001	TEACHING MATHEMATICS IN MIDDLE CHILDHOOD I	3
MCED 30002	INTEGRATED SOCIAL STUDIES AND SCIENCE IN MIDDLE CHILDHOOD	3
MCED 50005	EFFECTIVE USE OF PHONICS IN READING	3
MCED 50006	READING AND WRITING IN MIDDLE CHILDHOOD	6
MCED 50007	TEACHING READING WITH LITERATURE IN MIDDLE CHILDHOOD	3
MCED 52392	STUDENT TEACHING IN MIDDLE CHILDHOOD <sup>1</sup>	9
MCED 59525	INQUIRY INTO PROFESSIONAL PRACTICE MIDDLE CHILDHOOD	3
Minimum Total Credit Hours:		51

<sup>1</sup> Teacher candidates are only permitted to repeat a field experience course once. Please see Repeating Field Experience Courses in Teacher Education Programs policy for details.

### Graduation Requirements

- Minimum 3.000 overall GPA
- Additional Coursework: An analysis of additional content-area coursework required at the post-undergraduate level will be completed before entering into the program, and a Plan of Study will be created based on transcript analysis and current licensure requirements by the Ohio Department of Education. A minimum C grade is required in each of these courses. This coursework would be in addition to requirements for the Middle Childhood Education non-degree program.

### LICENSURE INFORMATION

Candidates seeking Ohio teaching licensure are required to pass specific requirements in order to apply for licensure from the Ohio Department of Education (ODE). A qualifying score on the Ohio Assessments for Educators (OAE) for the Assessment of Professional Knowledge (APK) and content tests is required for licensure. Students should consult their advisors for specific program requirements and refer to the Ohio



Department of Education-Educator Preparation website for more information on assessments specific to licensure type.

Students who do not apply for license within 12 months of program completion may be subject to additional course requirement, based on Ohio licensure standards in force at the time of application.

## Middle Childhood Education (4-9) Language Arts/Reading and Science Initial Licensure Preparation - Non-Degree

**College of Education Health and Human Services**  
School of Teaching, Learning and Curriculum Studies  
404 White Hall  
Kent Campus  
330-672-2580  
www.kent.edu/ehhs/tlcs

### Description

This Middle Childhood Education (4-9) Language Arts/Reading and Science Initial Licensure Preparation non-degree program will prepare students to obtain the Ohio Middle Childhood 4-9 license in Language Arts/Reading and Science. Completion of the prescribed coursework is a prerequisite to being recommended by Kent State University for licensure, and licenses are granted by the Ohio Department of Education. The program includes intensive pedagogy courses that prepare students to understand the unique social, physical, cognitive, and emotional needs of the young adolescent; these courses are taken as a cohort. Student teaching occurs during the final semester of the program.

The non-degree program is not a master's degree program. Students interested in obtaining a teaching license and a master's degree from Kent State University must also be fully admitted into a master's degree program and complete the prescribed coursework on the master's degree prospectus, in addition to courses that are prescribed here for licensure.

### Fully Offered At:

- Kent Campus

### Admission Requirements

Applicants will be assessed holistically, considering academic credentials; standardized test scores of reading, writing, and mathematics; academic or professional references; nonacademic dimensions; and other specific program criteria.

- Bachelor's degree from an accredited institution
- Official transcript(s)
- Minimum 3.000 overall GPA
- Goal statement
- Two letters of recommendation
- Praxis Core tests in reading, writing, and mathematics<sup>1</sup>
- Questions in Anticipation of Licensure form
- Is NOT an already-licensed teacher in Ohio (any level)
- An interview will be conducted prior to full acceptance into the program.

<sup>1</sup> All initial teacher licensure candidates are required to demonstrate basic competency in reading, writing and mathematics prior to admission. To demonstrate these competencies, students are required to take the Praxis Core tests in Reading, Mathematics, and Writing unless exempted by GRE scores fewer than five years old at the time of application. In order to gain exemption from Praxis CORE requirements, a student must achieve at or above the 50th percentile scores on the GRE Verbal, Quantitative, and Analytical Writing tests. Students who have not taken the GRE are strongly encouraged to take the Praxis CORE tests to demonstrate these competencies, rather than GRE. Further information is available in the Office of Graduate Student Services, 418 White Hall.

Competency Test Equivalents:

- Reading: GRE Verbal Reasoning/Praxis CORE Reading
- Mathematics: GRE Quantitative Reasoning/Praxis CORE Mathematics
- Writing: GRE Analytical Writing/Praxis CORE Writing

### Program Learning Outcomes

Completers of this non-degree program will be able to:

1. Describe the Ohio Standards for the Teaching Profession
2. Describe the Ohio Standards for Professional Development
3. Describe the Ohio School Operating Standards
4. Describe the Ohio Value Added Progress Dimension(s)
5. Demonstrate knowledge and skills consistent with the AMLE standards.
6. Demonstrate knowledge and skills identified in CAEP Initial Standards.

### Program Requirements

#### Licensure Requirements

Code	Title	Credit Hours
<b>Licensure Requirements</b>		
CI 57502	SCIENCE TEACHING IN EARLY AND MIDDLE GRADES (min C grade)	3
or CI 57505	INTEGRATED SOCIAL STUDIES AND SCIENCE	
or MCED 50002	TEACHING SCIENCE IN MIDDLE CHILDHOOD II	
CI 61130	MULTICULTURAL EDUCATION: STRATEGIES (min C grade)	3
or CI 67005	INTERCULTURAL DIMENSIONS OF TEACHING AND LEARNING	
or CULT 65530	FOUNDATIONS OF EDUCATION AND HUMAN SERVICES	
CI 67107	CURRICULUM AND ORGANIZATION IN THE MIDDLE GRADES (min C grade)	3
or MCED 41000	CURRICULUM AND ORGANIZATION IN MIDDLE CHILDHOOD	
CI 67108	TEACHING AND LEARNING IN THE MIDDLE GRADES (min C grade)	3
or MCED 31000	TEACHING AND LEARNING IN MIDDLE CHILDHOOD	
EPSY 65524	LEARNING THEORIES (min C grade)	3
ETEC 57400	TRENDS IN EDUCATIONAL TECHNOLOGY (min C grade)	3
HDFS 64027	EARLY ADOLESCENCE (min C grade)	3
MCED 30001	TEACHING MATHEMATICS IN MIDDLE CHILDHOOD I (min C grade)	3
MCED 30002	INTEGRATED SOCIAL STUDIES AND SCIENCE IN MIDDLE CHILDHOOD (min C grade)	3

MCED 50005	EFFECTIVE USE OF PHONICS IN READING (min C grade)	3
MCED 50006	READING AND WRITING IN MIDDLE CHILDHOOD (min C grade)	6
MCED 50007	TEACHING READING WITH LITERATURE IN MIDDLE CHILDHOOD (min C grade)	3
MCED 52392	STUDENT TEACHING IN MIDDLE CHILDHOOD (min C grade) <sup>1</sup>	9
MCED 59525	INQUIRY INTO PROFESSIONAL PRACTICE MIDDLE CHILDHOOD (min C grade)	3
Minimum Total Credit Hours:		51

<sup>1</sup> Teacher candidates are only permitted to repeat a field experience course once. Please see Repeating Field Experience Courses in Teacher Education Programs policy for details.

## Graduation Requirements

- Minimum 3.000 overall GPA
- Additional Coursework: An analysis of additional content-area coursework required at the post-undergraduate level will be completed before entering into the program, and a Plan of Study will be created based on transcript analysis and current licensure requirements by the Ohio Department of Education. A minimum C grade is required in each of these courses. This coursework would be in addition to requirements for the Middle Childhood Education non-degree program.

## LICENSURE INFORMATION

Candidates seeking Ohio teaching licensure are required to pass specific requirements in order to apply for licensure from the Ohio Department of Education (ODE). A qualifying score on the Ohio Assessments for Educators (OAE) for the Assessment of Professional Knowledge (APK) and content tests is required for licensure. Students should consult their advisors for specific program requirements and refer to the Ohio Department of Education-Educator Preparation website for more information on assessments specific to licensure type.

Students who do not apply for license within 12 months of program completion may be subject to additional course requirement, based on Ohio licensure standards in force at the time of application.

# Middle Childhood Education (4-9) Mathematics and Science Initial Licensure Preparation - Non-Degree

College of Education Health and Human Services  
School of Teaching, Learning and Curriculum Studies  
404 White Hall  
Kent Campus  
330-672-2580  
www.kent.edu/ehhs/tlcs

## Description

This Middle Childhood Education (4-9) Mathematics and Science Initial Licensure Preparation non-degree program will prepare students to obtain the Ohio Middle Childhood 4-9 license in Mathematics and Science. Completion of the prescribed coursework is a prerequisite to being recommended by Kent State University for licensure, and licenses are

granted by the Ohio Department of Education. The program includes intensive pedagogy courses that prepare students to understand the unique social, physical, cognitive, and emotional needs of the young adolescent; these courses are taken as a cohort. Student teaching occurs during the final semester of the program.

The non-degree program is not a master's degree program. Students interested in obtaining a teaching license and a master's degree from Kent State University must also be fully admitted into a master's degree program and complete the prescribed coursework on the master's degree prospectus, in addition to courses that are prescribed here for licensure.

## Fully Offered At:

- Kent Campus

## Admission Requirements

Applicants will be assessed holistically, considering academic credentials; standardized test scores of reading, writing, and mathematics; academic or professional references; nonacademic dimensions; and other specific program criteria.

- Bachelor's degree from an accredited institution
- Official transcript(s)
- Minimum 3.000 overall GPA
- Goal statement
- Two letters of recommendation
- Praxis Core tests in reading, writing, and mathematics<sup>1</sup>
- Questions in Anticipation of Licensure form
- Is NOT an already-licensed teacher in Ohio (any level)
- An interview will be conducted prior to full acceptance into the program.

<sup>1</sup> All initial teacher licensure candidates are required to demonstrate basic competency in reading, writing and mathematics prior to admission. To demonstrate these competencies, students are required to take the Praxis Core tests in Reading, Mathematics, and Writing unless exempted by GRE scores fewer than five years old at the time of application. In order to gain exemption from Praxis CORE requirements, a student must achieve at or above the 50th percentile scores on the GRE Verbal, Quantitative, and Analytical Writing tests. Students who have not taken the GRE are strongly encouraged to take the Praxis CORE tests to demonstrate these competencies, rather than GRE. Further information is available in the Office of Graduate Student Services, 418 White Hall.

Competency Test Equivalents:

- Reading: GRE Verbal Reasoning/Praxis CORE Reading
- Mathematics: GRE Quantitative Reasoning/Praxis CORE Mathematics
- Writing: GRE Analytical Writing/Praxis CORE Writing

## Program Learning Outcomes

Completers of this non-degree program will be able to:

1. Describe the Ohio Standards for the Teaching Profession
2. Describe the Ohio Standards for Professional Development
3. Describe the Ohio School Operating Standards
4. Describe the Ohio Value Added Progress Dimension(s)
5. Demonstrate knowledge and skills consistent with the AMLE standards.

6. Demonstrate knowledge and skills identified in CAEP Initial Standards.

## Program Requirements

### Licensure Requirements

Code	Title	Credit Hours
<b>Licensure Requirements (min C grade required in all courses)</b>		
CI 57501	TEACHING MATHEMATICS IN EARLY AND MIDDLE GRADES	3
or CI 67226	IMPROVING MATHEMATICS INSTRUCTION IN MIDDLE CHILDHOOD	
CI 57502	SCIENCE TEACHING IN EARLY AND MIDDLE GRADES	3
or CI 57505	INTEGRATED SOCIAL STUDIES AND SCIENCE	
or MCED 50002	TEACHING SCIENCE IN MIDDLE CHILDHOOD II	
CI 61130	MULTICULTURAL EDUCATION: STRATEGIES	3
or CI 67005	INTERCULTURAL DIMENSIONS OF TEACHING AND LEARNING	
or CULT 65530	FOUNDATIONS OF EDUCATION AND HUMAN SERVICES	
CI 67107	CURRICULUM AND ORGANIZATION IN THE MIDDLE GRADES	3
or MCED 41000	CURRICULUM AND ORGANIZATION IN MIDDLE CHILDHOOD	
CI 67108	TEACHING AND LEARNING IN THE MIDDLE GRADES	3
or MCED 31000	TEACHING AND LEARNING IN MIDDLE CHILDHOOD	
EPSY 65524	LEARNING THEORIES	3
ETEC 57400	TRENDS IN EDUCATIONAL TECHNOLOGY	3
HDFS 64027	EARLY ADOLESCENCE	3
MCED 30001	TEACHING MATHEMATICS IN MIDDLE CHILDHOOD I	3
MCED 30002	INTEGRATED SOCIAL STUDIES AND SCIENCE IN MIDDLE CHILDHOOD	3
MCED 50005	EFFECTIVE USE OF PHONICS IN READING	3
MCED 50006	READING AND WRITING IN MIDDLE CHILDHOOD	6
MCED 50007	TEACHING READING WITH LITERATURE IN MIDDLE CHILDHOOD	3
MCED 52392	STUDENT TEACHING IN MIDDLE CHILDHOOD <sup>1</sup>	9
MCED 59525	INQUIRY INTO PROFESSIONAL PRACTICE MIDDLE CHILDHOOD	3
Minimum Total Credit Hours:		54

<sup>1</sup> Teacher candidates are only permitted to repeat a field experience course once. Please see Repeating Field Experience Courses in Teacher Education Programs policy for details.

### Graduation Requirements

- Minimum 3.000 overall GPA
- Additional Coursework: An analysis of additional content-area coursework required at the post-undergraduate level will be completed before entering into the program, and a Plan of Study will be created based on transcript analysis and current licensure requirements by the Ohio Department of Education. A minimum C grade is required in each of these courses. This coursework would be in addition to requirements for the Middle Childhood Education non-degree program.

### LICENSURE INFORMATION

Candidates seeking Ohio teaching licensure are required to pass specific requirements in order to apply for licensure from the Ohio Department of Education (ODE). A qualifying score on the Ohio Assessments for Educators (OAE) for the Assessment of Professional Knowledge (APK) and content tests is required for licensure. Students should consult their advisors for specific program requirements and refer to the Ohio Department of Education-Educator Preparation website for more information on assessments specific to licensure type.

Students who do not apply for license within 12 months of program completion may be subject to additional course requirement, based on Ohio licensure standards in force at the time of application.

## Middle Childhood Education (4-9) Mathematics and Social Studies Initial Licensure Preparation - Non-Degree

**College of Education Health and Human Services**  
School of Teaching, Learning and Curriculum Studies  
404 White Hall  
Kent Campus  
330-672-2580  
[www.kent.edu/ehhs/tlcs](http://www.kent.edu/ehhs/tlcs)

### Description

This Middle Childhood Education (4-9) Mathematics and Social Studies Initial Licensure Preparation non-degree program will prepare students to obtain the Ohio Middle Childhood 4-9 license in Mathematics and Social Studies. Completion of the prescribed coursework is a prerequisite to being recommended by Kent State University for licensure, and licenses are granted by the Ohio Department of Education. The program includes intensive pedagogy courses that prepare students to understand the unique social, physical, cognitive, and emotional needs of the young adolescent; these courses are taken as a cohort. Student teaching occurs during the final semester of the program.

The non-degree program is not a master's degree program. Students interested in obtaining a teaching license and a master's degree from Kent State University must also be fully admitted into a master's degree program and complete the prescribed coursework on the master's degree prospectus, in addition to courses that are prescribed here for licensure.

### Fully Offered At:

- Kent Campus

### Admission Requirements

Applicants will be assessed holistically, considering academic credentials; standardized test scores of reading, writing, and mathematics; academic or professional references; nonacademic dimensions; and other specific program criteria.

- Bachelor's degree from an accredited institution
- Official transcript(s)
- Minimum 3.000 overall GPA
- Goal statement

- Two letters of recommendation
- Praxis Core tests in reading, writing, and mathematics<sup>1</sup>
- Questions in Anticipation of Licensure form
- Is NOT an already-licensed teacher in Ohio (any level)
- An interview will be conducted prior to full acceptance into the program.

<sup>1</sup> All initial teacher licensure candidates are required to demonstrate basic competency in reading, writing and mathematics prior to admission. To demonstrate these competencies, students are required to take the Praxis Core tests in Reading, Mathematics, and Writing unless exempted by GRE scores fewer than five years old at the time of application. In order to gain exemption from Praxis CORE requirements, a student must achieve at or above the 50th percentile scores on the GRE Verbal, Quantitative, and Analytical Writing tests. Students who have not taken the GRE are strongly encouraged to take the Praxis CORE tests to demonstrate these competencies, rather than GRE. Further information is available in the Office of Graduate Student Services, 418 White Hall.

Competency Test Equivalents:

- Reading: GRE Verbal Reasoning/Praxis CORE Reading
- Mathematics: GRE Quantitative Reasoning/Praxis CORE Mathematics
- Writing: GRE Analytical Writing/Praxis CORE Writing

CI 67108	TEACHING AND LEARNING IN THE MIDDLE GRADES	3
or MCED 31000	TEACHING AND LEARNING IN MIDDLE CHILDHOOD	
EPSY 65524	LEARNING THEORIES	3
ETEC 57400	TRENDS IN EDUCATIONAL TECHNOLOGY	3
HDFS 64027	EARLY ADOLESCENCE	3
MCED 30001	TEACHING MATHEMATICS IN MIDDLE CHILDHOOD I	3
MCED 30002	INTEGRATED SOCIAL STUDIES AND SCIENCE IN MIDDLE CHILDHOOD	3
MCED 50005	EFFECTIVE USE OF PHONICS IN READING	3
MCED 50006	READING AND WRITING IN MIDDLE CHILDHOOD	6
MCED 50007	TEACHING READING WITH LITERATURE IN MIDDLE CHILDHOOD	3
MCED 52392	STUDENT TEACHING IN MIDDLE CHILDHOOD <sup>1</sup>	9
MCED 59525	INQUIRY INTO PROFESSIONAL PRACTICE MIDDLE CHILDHOOD	3

Minimum Total Credit Hours: 54

<sup>1</sup> Teacher candidates are only permitted to repeat a field experience course once. Please see Repeating Field Experience Courses in Teacher Education Programs policy for details.

## Program Learning Outcomes

Completers of this non-degree program will be able to:

1. Describe the Ohio Standards for the Teaching Profession
2. Describe the Ohio Standards for Professional Development
3. Describe the Ohio School Operating Standards
4. Describe the Ohio Value Added Progress Dimension(s)
5. Demonstrate knowledge and skills consistent with the AMLE standards.
6. Demonstrate knowledge and skills identified in CAEP Initial Standards.

## Program Requirements

### Licensure Requirements

Code	Title	Credit Hours
<b>Licensure Requirements (min C grade required in all courses)</b>		
CI 57501	TEACHING MATHEMATICS IN EARLY AND MIDDLE GRADES	3
or CI 67226	IMPROVING MATHEMATICS INSTRUCTION IN MIDDLE CHILDHOOD	
CI 57503	TEACHING SOCIAL STUDIES IN EARLY AND MIDDLE GRADES	3
or CI 57505	INTEGRATED SOCIAL STUDIES AND SCIENCE	
or MCED 50003	TEACHING SOCIAL STUDIES IN MIDDLE CHILDHOOD II	
CI 61130	MULTICULTURAL EDUCATION: STRATEGIES	3
or CI 67005	INTERCULTURAL DIMENSIONS OF TEACHING AND LEARNING	
or CULT 65530	FOUNDATIONS OF EDUCATION AND HUMAN SERVICES	
CI 67107	CURRICULUM AND ORGANIZATION IN THE MIDDLE GRADES	3
or MCED 41000	CURRICULUM AND ORGANIZATION IN MIDDLE CHILDHOOD	

### Graduation Requirements

- Minimum 3.000 overall GPA
- Additional Coursework: An analysis of additional content-area coursework required at the post-undergraduate level will be completed before entering into the program, and a Plan of Study will be created based on transcript analysis and current licensure requirements by the Ohio Department of Education. A minimum C grade is required in each of these courses. This coursework would be in addition to requirements for the Middle Childhood Education non-degree program.

### LICENSURE INFORMATION

Candidates seeking Ohio teaching licensure are required to pass specific requirements in order to apply for licensure from the Ohio Department of Education (ODE). A qualifying score on the Ohio Assessments for Educators (OAE) for the Assessment of Professional Knowledge (APK) and content tests is required for licensure. Students should consult their advisors for specific program requirements and refer to the Ohio Department of Education-Ed ucator Preparation website for more information on assessments specific to licensure type.

Students who do not apply for license within 12 months of program completion may be subject to additional course requirement, based on Ohio licensure standards in force at the time of application.

## Middle Childhood Education (4-9) Social Studies and Language Arts/ Reading Initial Licensure Preparation - Non-Degree

**College of Education Health and Human Services**  
 School of Teaching, Learning and Curriculum Studies  
 404 White Hall  
 Kent Campus  
 330-672-2580

www.kent.edu/ehhs/tlcs

## Description

The Middle Childhood Education (4-9) Social Studies and Language Arts/Reading Initial Licensure Preparation non-degree program will prepare students to obtain the Ohio Middle Childhood 4-9 license in Social Studies and Language Arts/Reading. Completion of the prescribed coursework is a prerequisite to being recommended by Kent State University for licensure, and licenses are granted by the Ohio Department of Education. The program includes intensive pedagogy courses that prepare students to understand the unique social, physical, cognitive, and emotional needs of the young adolescent; these courses are taken as a cohort. Student teaching occurs during the final semester of the program.

The non-degree program is not a master's degree program. Students interested in obtaining a teaching license and a master's degree from Kent State University must also be fully admitted into a master's degree program and complete the prescribed coursework on the master's degree prospectus, in addition to courses that are prescribed here for licensure.

### Fully Offered At:

- Kent Campus

## Admission Requirements

Applicants will be assessed holistically, considering academic credentials; standardized test scores of reading, writing, and mathematics; academic or professional references; nonacademic dimensions; and other specific program criteria.

- Bachelor's degree from an accredited institution
- Official transcript(s)
- Minimum 3.000 overall GPA
- Goal statement
- Two letters of recommendation
- Praxis Core tests in reading, writing, and mathematics<sup>1</sup>
- Questions in Anticipation of Licensure form
- Is NOT an already-licensed teacher in Ohio (any level)
- An interview will be conducted prior to full acceptance into the program.

<sup>1</sup> All initial teacher licensure candidates are required to demonstrate basic competency in reading, writing and mathematics prior to admission. To demonstrate these competencies, students are required to take the Praxis Core tests in Reading, Mathematics, and Writing unless exempted by GRE scores fewer than five years old at the time of application. In order to gain exemption from Praxis CORE requirements, a student must achieve at or above the 50th percentile scores on the GRE Verbal, Quantitative, and Analytical Writing tests. Students who have not taken the GRE are strongly encouraged to take the Praxis CORE tests to demonstrate these competencies, rather than GRE. Further information is available in the Office of Graduate Student Services, 418 White Hall.

#### Competency Test Equivalents:

- Reading: GRE Verbal Reasoning/Praxis CORE Reading
- Mathematics: GRE Quantitative Reasoning/Praxis CORE Mathematics
- Writing: GRE Analytical Writing/Praxis CORE Writing

## Program Learning Outcomes

Completers of this non-degree program will be able to:

1. Describe the Ohio Standards for the Teaching Profession
2. Describe the Ohio Standards for Professional Development
3. Describe the Ohio School Operating Standards
4. Describe the Ohio Value Added Progress Dimension(s)
5. Demonstrate knowledge and skills consistent with the AMLE standards.
6. Demonstrate knowledge and skills identified in CAEP Initial Standards.

## Program Requirements

### Licensure Requirements

Code	Title	Credit Hours
<b>Licensure Requirements (min C grade is required in all courses)</b>		
CI 57503	TEACHING SOCIAL STUDIES IN EARLY AND MIDDLE GRADES (min C grade)	3
or CI 57505	INTEGRATED SOCIAL STUDIES AND SCIENCE	
or MCED 50003	TEACHING SOCIAL STUDIES IN MIDDLE CHILDHOOD II	
CI 61130	MULTICULTURAL EDUCATION: STRATEGIES (min C grade)	3
or CI 67005	INTERCULTURAL DIMENSIONS OF TEACHING AND LEARNING	
or CULT 65530	FOUNDATIONS OF EDUCATION AND HUMAN SERVICES	
CI 67107	CURRICULUM AND ORGANIZATION IN THE MIDDLE GRADES (min C grade)	3
or MCED 41000	CURRICULUM AND ORGANIZATION IN MIDDLE CHILDHOOD	
CI 67108	TEACHING AND LEARNING IN THE MIDDLE GRADES (min C grade)	3
or MCED 31000	TEACHING AND LEARNING IN MIDDLE CHILDHOOD	
EPSY 65524	LEARNING THEORIES (min C grade)	3
ETEC 57400	TRENDS IN EDUCATIONAL TECHNOLOGY (min C grade)	3
HDFS 64027	EARLY ADOLESCENCE (min C grade)	3
MCED 30001	TEACHING MATHEMATICS IN MIDDLE CHILDHOOD I (min C grade)	3
MCED 30002	INTEGRATED SOCIAL STUDIES AND SCIENCE IN MIDDLE CHILDHOOD (min C grade)	3
MCED 50005	EFFECTIVE USE OF PHONICS IN READING (min C grade)	3
MCED 50006	READING AND WRITING IN MIDDLE CHILDHOOD (min C grade)	6
MCED 50007	TEACHING READING WITH LITERATURE IN MIDDLE CHILDHOOD (min C grade)	3
MCED 52392	STUDENT TEACHING IN MIDDLE CHILDHOOD (min C grade) <sup>1</sup>	9
MCED 59525	INQUIRY INTO PROFESSIONAL PRACTICE MIDDLE CHILDHOOD (min C grade)	3
Minimum Total Credit Hours:		51

<sup>1</sup> Teacher candidates are only permitted to repeat a field experience course once. Please see Repeating Field Experience Courses in Teacher Education Programs policy for details.



## Graduation Requirements

- Minimum 3.000 overall GPA
- Additional Coursework: An analysis of additional content-area coursework required at the post-undergraduate level will be completed before entering into the program, and a Plan of Study will be created based on transcript analysis and current licensure requirements by the Ohio Department of Education. A minimum C grade is required in each of these courses. This coursework would be in addition to requirements for the Middle Childhood Education non-degree program.

## LICENSURE INFORMATION

Candidates seeking Ohio teaching licensure are required to pass specific requirements in order to apply for licensure from the Ohio Department of Education (ODE). A qualifying score on the Ohio Assessments for Educators (OAE) for the Assessment of Professional Knowledge (APK) and content tests is required for licensure. Students should consult their advisors for specific program requirements and refer to the Ohio Department of Education-Educator Preparation website for more information on assessments specific to licensure type.

Students who do not apply for license within 12 months of program completion may be subject to additional course requirement, based on Ohio licensure standards in force at the time of application.

## Middle Childhood Education (4-9) Social Studies and Science Initial Licensure Preparation - Non-Degree

### College of Education Health and Human Services

School of Teaching, Learning and Curriculum Studies

404 White Hall

Kent Campus

330-672-2580

[www.kent.edu/ehhs/tlcs](http://www.kent.edu/ehhs/tlcs)

## Description

The Middle Childhood Education (4-9) Social Studies and Science Initial Licensure Preparation non-degree program will prepare students to obtain the Ohio Middle Childhood 4-9 license in Social Studies and Science. Completion of the prescribed coursework is a prerequisite to being recommended by Kent State University for licensure, and licenses are granted by the Ohio Department of Education. The program includes intensive pedagogy courses that prepare students to understand the unique social, physical, cognitive, and emotional needs of the young adolescent; these courses are taken as a cohort. Student teaching occurs during the final semester of the program.

The non-degree program is not a master's degree program. Students interested in obtaining a teaching license and a master's degree from Kent State University must also be fully admitted into a master's degree program and complete the prescribed coursework on the master's degree prospectus, in addition to courses that are prescribed here for licensure.

### Fully Offered At:

- Kent Campus

## Admission Requirements

Applicants will be assessed holistically, considering academic credentials; standardized test scores of reading, writing, and mathematics; academic or professional references; nonacademic dimensions; and other specific program criteria.

- Bachelor's degree from an accredited institution
- Official transcript(s)
- Minimum 3.000 overall GPA
- Goal statement
- Two letters of recommendation
- Praxis Core tests in reading, writing, and mathematics<sup>1</sup>
- Questions in Anticipation of Licensure form
- Is NOT an already-licensed teacher in Ohio (any level)
- An interview will be conducted prior to full acceptance into the program.

<sup>1</sup> All initial teacher licensure candidates are required to demonstrate basic competency in reading, writing and mathematics prior to admission. To demonstrate these competencies, students are required to take the Praxis Core tests in Reading, Mathematics, and Writing unless exempted by GRE scores fewer than five years old at the time of application. In order to gain exemption from Praxis CORE requirements, a student must achieve at or above the 50th percentile scores on the GRE Verbal, Quantitative, and Analytical Writing tests. Students who have not taken the GRE are strongly encouraged to take the Praxis CORE tests to demonstrate these competencies, rather than GRE. Further information is available in the Office of Graduate Student Services, 418 White Hall.

Competency Test Equivalents:

- Reading: GRE Verbal Reasoning/Praxis CORE Reading
- Mathematics: GRE Quantitative Reasoning/Praxis CORE Mathematics
- Writing: GRE Analytical Writing/Praxis CORE Writing

## Program Learning Outcomes

Completers of this non-degree program will be able to:

1. Describe the Ohio Standards for the Teaching Profession
2. Describe the Ohio Standards for Professional Development
3. Describe the Ohio School Operating Standards
4. Describe the Ohio Value Added Progress Dimension(s)
5. Demonstrate knowledge and skills consistent with the AMLE standards.
6. Demonstrate knowledge and skills identified in CAEP Initial Standards.

## Program Requirements

### Licensure Requirements

Code	Title	Credit Hours
<b>Licensure Requirements</b>		
CI 57502	SCIENCE TEACHING IN EARLY AND MIDDLE GRADES (min C grade)	3
or CI 57505	INTEGRATED SOCIAL STUDIES AND SCIENCE	
or MCEd 50002	TEACHING SCIENCE IN MIDDLE CHILDHOOD II	

CI 57503	TEACHING SOCIAL STUDIES IN EARLY AND MIDDLE GRADES (min C grade)	3
or CI 57505	INTEGRATED SOCIAL STUDIES AND SCIENCE	
or MCED 50003	TEACHING SOCIAL STUDIES IN MIDDLE CHILDHOOD II	
CI 61130	MULTICULTURAL EDUCATION: STRATEGIES (min C grade)	3
or CI 67005	INTERCULTURAL DIMENSIONS OF TEACHING AND LEARNING	
or CULT 65530	FOUNDATIONS OF EDUCATION AND HUMAN SERVICES	
CI 67107	CURRICULUM AND ORGANIZATION IN THE MIDDLE GRADES (min C grade)	3
or MCED 41000	CURRICULUM AND ORGANIZATION IN MIDDLE CHILDHOOD	
CI 67108	TEACHING AND LEARNING IN THE MIDDLE GRADES (min C grade)	3
or MCED 31000	TEACHING AND LEARNING IN MIDDLE CHILDHOOD	
EPSY 65524	LEARNING THEORIES (min C grade)	3
ETEC 57400	TRENDS IN EDUCATIONAL TECHNOLOGY (min C grade)	3
HDFS 64027	EARLY ADOLESCENCE (min C grade)	3
MCED 30001	TEACHING MATHEMATICS IN MIDDLE CHILDHOOD I (min C grade)	3
MCED 30002	INTEGRATED SOCIAL STUDIES AND SCIENCE IN MIDDLE CHILDHOOD (min C grade)	3
MCED 50005	EFFECTIVE USE OF PHONICS IN READING (min C grade)	3
MCED 50006	READING AND WRITING IN MIDDLE CHILDHOOD (min C grade)	6
MCED 50007	TEACHING READING WITH LITERATURE IN MIDDLE CHILDHOOD (min C grade)	3
MCED 52392	STUDENT TEACHING IN MIDDLE CHILDHOOD (min C grade) <sup>1</sup>	9
MCED 59525	INQUIRY INTO PROFESSIONAL PRACTICE MIDDLE CHILDHOOD (min C grade)	3
Minimum Total Credit Hours:		54

<sup>1</sup> Teacher candidates are only permitted to repeat a field experience course once. Please see Repeating Field Experience Courses in Teacher Education Programs policy for details.

## Graduation Requirements

- Minimum 3.000 overall GPA
- Additional Coursework: An analysis of additional content-area coursework required at the post-undergraduate level will be completed before entering into the program, and a Plan of Study will be created based on transcript analysis and current licensure requirements by the Ohio Department of Education. A minimum C grade is required in each of these courses. This coursework would be in addition to requirements for the Middle Childhood Education non-degree program.

## LICENSURE INFORMATION

Candidates seeking Ohio teaching licensure are required to pass specific requirements in order to apply for licensure from the Ohio Department of Education (ODE). A qualifying score on the Ohio Assessments for Educators (OAE) for the Assessment of Professional Knowledge (APK) and content tests is required for licensure. Students should consult their advisors for specific program requirements and refer to the Ohio Department of Education-Educator Preparation website for more information on assessments specific to licensure type.

3 Students who do not apply for license within 12 months of program completion may be subject to additional course requirement, based on Ohio licensure standards in force at the time of application.

## Middle Childhood Education - B.S.E.

**College of Education Health and Human Services**  
School of Teaching, Learning and Curriculum Studies  
404 White Hall  
Kent Campus  
330-672-2580  
[www.kent.edu/ehhs/tlcs](http://www.kent.edu/ehhs/tlcs)

## Description

The Bachelor of Science in Education degree in Middle Childhood Education prepares students for teacher licensure in selected subject areas, plus reading, for grades four to nine. In addition to content coursework and a substantial amount of field experiences, the Middle Childhood Education major includes intensive pedagogy courses that prepare students to understand the unique social, physical, cognitive and emotional needs of the young adolescent; these courses are taken as a cohort. Student teaching occurs during the final semester of the program.

Students choose two concentrations from the following:

- The **Language Arts** concentration includes courses in communication, grammar, literature, reading and writing.
- The **Mathematics** concentration includes courses in algebra, trigonometry, calculus, geometry and statistics.
- The **Science** concentration includes diverse courses in chemistry, biology, geology and physics.
- The **Social Studies** concentration includes diverse courses in economics, history, political science and geography.

## Fully Offered At:

- Geauga Campus
- Kent Campus
- Stark Campus

## Accreditation

National Council for Accreditation of Teacher Education, Association of Middle Level Education

## Admission Requirements

Admission to this major is selective. Admission to the college does not guarantee admission to a major and/or admission to professional coursework for a selective admission program. To be admitted directly into a teacher education program, it is required that new freshmen have a 2.750 high school GPA.

Students who do not meet the GPA requirement at the time of admission for this major will be admitted to the EHHS General non-degree program until which time they have established a Kent State GPA of 2.750. They may then submit a change of program to declare this major.

**Current Kent State and Transfer Students:** Active Kent State students who wish to change their major must have attempted a minimum 12 credit hours at Kent State and meet all admission criteria listed above to be admitted. Students who have not attempted 12 credit hours at Kent State will be evaluated for admission based on their high school GPA for new students or transfer GPA for transfer students. Transfer students who have not attempted 12 credit hours of college-level coursework at Kent State and/or other institutions will be evaluated based on both their high school GPA and college GPA.

**English Language Proficiency Requirements for International Students:** All international students must provide proof of English language proficiency (unless they meet specific exceptions) by earning a minimum 525 TOEFL score (71 on the Internet-based version), minimum 75 MELAB score, minimum 6.0 IELTS score or minimum 48 PTE Academic score, or by completing the ELS level 112 Intensive Program. For more information on international admission, visit the Office of Global Education's admission website.

## Program Learning Outcomes

Graduates of the program will be able to:

1. Demonstrate the knowledge, skills and disposition needed to work collaboratively with diverse others.
2. Demonstrate content knowledge in two licensure specialization areas.
3. Demonstrate in-depth instructional and planning skills to effectively meet the needs of all their students.

## University Requirements

All students in a bachelor's degree program at Kent State University must complete the following university requirements for graduation.

**NOTE:** University requirements may be fulfilled in this program by specific course requirements. Please see Program Requirements for details.

Destination Kent State: First Year Experience	1
Course is not required for students with 25 transfer credits, excluding College Credit Plus, or age 21+ at time of admission.	
Diversity Domestic/Global (DIVD/DIVG)	2 courses
Students must successfully complete one domestic and one global course, of which one must be from the Kent Core.	
Experiential Learning Requirement (ELR)	varies
Students must successfully complete one course or approved experience.	
Kent Core (see table below)	36-37
Writing-Intensive Course (WIC)	1 course
Students must earn a minimum C grade in the course.	
Upper-Division Requirement	39 (or 42)
Students must successfully complete 39 upper-division (numbered 30000 to 49999) credit hours to graduate. Students in a B.A. and/or B.S. degree in the College of Arts and Sciences must complete 42 upper-division credit hours.	
Total Credit Hour Requirement	120
Some bachelor's degrees require students to complete more than 120 credit hours.	

## Kent Core Requirements

Kent Core Composition (KCMP)	6
Kent Core Mathematics and Critical Reasoning (KMCR)	3
Kent Core Humanities and Fine Arts (KHUM/KFA) (min one course each)	9
Kent Core Social Sciences (KSS) (must be from two disciplines)	6
Kent Core Basic Sciences (KBS/KLAB) (must include one laboratory)	6-7
Kent Core Additional (KADL)	6
<b>Total Credit Hours:</b>	<b>36-37</b>

## Program Requirements

### Major Requirements

Code	Title	Credit Hours
<b>Major Requirements (courses count in major GPA)</b>		
CULT 29535	EDUCATION IN A DEMOCRATIC SOCIETY (min C grade)	3
ENG 22071	GREAT BOOKS TO 1700 (KHUM) <sup>1</sup>	3
or ENG 22072	GREAT BOOKS SINCE 1700 (KHUM)	
EPSY 29525	EDUCATIONAL PSYCHOLOGY (min C grade)	3
MATH 14001	BASIC MATHEMATICAL CONCEPTS I (KMCR) (min C grade)	4
MATH 14002	BASIC MATHEMATICAL CONCEPTS II (KMCR) (min C grade)	4
MCED 20000	LEARNING AND EXPERIENCE IN MIDDLE CHILDHOOD EDUCATION (min C grade) <sup>2</sup>	3
MCED 30001	TEACHING MATHEMATICS IN MIDDLE CHILDHOOD I (min C grade)	3
MCED 30002	INTEGRATED SOCIAL STUDIES AND SCIENCE IN MIDDLE CHILDHOOD (min C grade)	3
MCED 31000	TEACHING AND LEARNING IN MIDDLE CHILDHOOD (min C grade) <sup>2</sup>	3
MCED 40005	EFFECTIVE USE OF PHONICS IN READING (min C grade)	3
MCED 40006	READING AND WRITING IN MIDDLE CHILDHOOD (WIC) (min C grade)	6
MCED 40007	TEACHING READING WITH LITERATURE IN MIDDLE CHILDHOOD (min C grade)	3
MCED 41000	CURRICULUM AND ORGANIZATION IN MIDDLE CHILDHOOD (min C grade) <sup>2</sup>	3
MCED 42392	STUDENT TEACHING IN MIDDLE CHILDHOOD (ELR) <sup>2</sup>	9
MCED 49525	INQUIRY INTO PROFESSIONAL PRACTICE:MIDDLE CHILDHOOD (min C grade)	3
SPED 23000	INTRODUCTION TO EXCEPTIONALITIES (DIVD) (min C grade)	3
<b>Additional Requirements (courses do not count in major GPA)</b>		
GEOG 17063	WORLD GEOGRAPHY (DIVG) (KSS) <sup>3</sup>	3
PSYC 11762	GENERAL PSYCHOLOGY (DIVD) (KSS) <sup>3</sup>	3
UC 10097	DESTINATION KENT STATE: FIRST YEAR EXPERIENCE	1
Kent Core Composition (min C grade)		6
Kent Core Fine Arts		3
<b>Concentrations</b>		
Choose from the following:		45-55
Language Arts and Mathematics		
Language Arts and Science		

Mathematics and Science
Mathematics and Social Studies
Social Studies and Language Arts
Social Studies and Science
Minimum Total Credit Hours: 120-130

- A minimum C grade is required in either ENG 22071 or ENG 22072 for students in the Language Arts concentration.
- Teacher candidates are only permitted to repeat a field experience course once. Please see Repeating Field Experience Courses in Teacher Education Programs policy for details.
- A minimum C grade is required for students in the Social Studies concentration.

## Language Arts and Mathematics Concentration Requirements

Code	Title	Credit Hours
<b>Concentration Requirements (courses count in major GPA; min C grade required in all courses)</b>		
COMM 15000	INTRODUCTION TO HUMAN COMMUNICATION (KADL)	3
COMM 26000	CRITICISM OF PUBLIC DISCOURSE (DIVD) (KHUM)	3
or JMC 20001	MEDIA, POWER AND CULTURE (DIVD) (KSS)	
ENG 31001	FUNDAMENTAL ENGLISH GRAMMAR	3
or ENG 31003	LINGUISTICS	
MATH 10041	INTRODUCTORY STATISTICS (KMCR)	4
MATH 11010	ALGEBRA FOR CALCULUS (KMCR)	3
MATH 11022	TRIGONOMETRY (KMCR)	3
MATH 12002	ANALYTIC GEOMETRY AND CALCULUS I (KMCR)	5
MATH 34001	FUNDAMENTAL CONCEPTS OF ALGEBRA	3
MATH 34002	FUNDAMENTAL CONCEPTS OF GEOMETRY	3
MCED 40001	TEACHING MATHEMATICS IN MIDDLE CHILDHOOD II	3
Literature Electives, choose from the following: 3		
ENG 21001	INTRODUCTION TO ETHNIC LITERATURE OF THE UNITED STATES (DIVD)	
ENG 21002	INTRODUCTION TO WOMEN'S LITERATURE (DIVD)	
ENG 21003	INTRODUCTION TO LGBT LITERATURE (DIVD)	
ENG 32002	LITERATURE FOR YOUNG ADULTS	
ENG 33012	MODERN AFRICAN-AMERICAN LITERATURE	
ENG 34021	WOMEN'S LITERATURE (DIVD)	
ENG 35301	LESBIAN, GAY, BISEXUAL AND TRANSGENDER: CRITICAL PERSPECTIVES (DIVD)	
Writing Electives, choose from the following: 3		
ENG 20002	INTRODUCTION TO TECHNICAL WRITING	
ENG 20021	INTRODUCTION TO CREATIVE WRITING	
ENG 30050	WRITING AND RHETORIC IN A DIGITAL AGE	
ENG 30051	WRITING, RHETORIC AND NEW MEDIA	
ENG 30064	ARGUMENTATIVE PROSE WRITING	
ENG 30071	CREATIVE NONFICTION	
<b>Additional Requirements (courses do not count in major GPA)</b>		
BSCI 10001	HUMAN BIOLOGY (KBS)	3
HIST 11050	WORLD HISTORY: ANCIENT AND MEDIEVAL (DIVG) (KHUM)	3

or HIST 12070	EARLY AMERICA: FROM PRE-COLONIZATION TO CIVIL WAR AND RECONSTRUCTION (DIVD) (KHUM)	
or PAS 23001	BLACK EXPERIENCE I: BEGINNINGS TO 1865 (DIVG) (KHUM)	
Kent Core Basic Sciences (must include a laboratory)		3-4
Minimum Total Credit Hours:		48

## Language Arts and Science Concentration Requirements

Code	Title	Credit Hours
<b>Concentration Requirements (courses count in major GPA; min C grade required in all courses)</b>		
ANTH 18630	HUMAN EVOLUTION (KBS)	3
or BSCI 10002	LIFE ON PLANET EARTH (KBS)	
COMM 15000	INTRODUCTION TO HUMAN COMMUNICATION (KADL)	3
COMM 26000	CRITICISM OF PUBLIC DISCOURSE (DIVD) (KHUM)	3
or JMC 20001	MEDIA, POWER AND CULTURE (DIVD) (KSS)	
ENG 31001	FUNDAMENTAL ENGLISH GRAMMAR	3
or ENG 31003	LINGUISTICS	
MCED 40002	TEACHING SCIENCE IN THE MIDDLE CHILDHOOD II	3
PHY 11030	SEVEN IDEAS THAT SHOOK THE UNIVERSE (KBS)	3
Literature Electives, choose from the following: 3		
ENG 21001	INTRODUCTION TO ETHNIC LITERATURE OF THE UNITED STATES (DIVD)	
ENG 21002	INTRODUCTION TO WOMEN'S LITERATURE (DIVD)	
ENG 21003	INTRODUCTION TO LGBT LITERATURE (DIVD)	
ENG 32002	LITERATURE FOR YOUNG ADULTS	
ENG 33012	MODERN AFRICAN-AMERICAN LITERATURE	
ENG 34021	WOMEN'S LITERATURE (DIVD)	
ENG 35301	LESBIAN, GAY, BISEXUAL AND TRANSGENDER: CRITICAL PERSPECTIVES (DIVD)	
Writing Elective, choose from the following: 3		
ENG 20002	INTRODUCTION TO TECHNICAL WRITING	
ENG 20021	INTRODUCTION TO CREATIVE WRITING	
ENG 30050	WRITING AND RHETORIC IN A DIGITAL AGE	
ENG 30051	WRITING, RHETORIC AND NEW MEDIA	
ENG 30064	ARGUMENTATIVE PROSE WRITING	
ENG 30071	CREATIVE NONFICTION	
Physical Science Electives, choose from the following: 5		
CHEM 10060 & CHEM 10062	GENERAL CHEMISTRY I (KBS) and GENERAL CHEMISTRY I LABORATORY (KBS) (KLAB)	
PHY 13001 & PHY 13021	GENERAL COLLEGE PHYSICS I (KBS) and GENERAL COLLEGE PHYSICS LABORATORY I (KBS) (KLAB)	
Earth Science Electives, choose from the following: 4		
GEOL 11040 & GEOL 11041	HOW THE EARTH WORKS (KBS) and HOW THE EARTH WORKS LABORATORY (KBS) (KLAB)	
GEOL 11042 & GEOL 11043	EARTH AND LIFE THROUGH TIME (KBS) and EARTH AND LIFE THROUGH TIME LABORATORY (KBS) (KLAB)	
Science Elective, choose from the following: 3-4		
BSCI 20021	BASIC MICROBIOLOGY	
BSCI 30275	LOCAL FLORA (ELR)	

BSCI 30560	INVERTEBRATE ZOOLOGY
GEOG 31062	FUNDAMENTALS OF METEOROLOGY
GEOG 41073	CONSERVATION OF NATURAL RESOURCES
GEOL 21080	ALL ABOUT THE OCEANS (KBS)
GEOL 41073	GEOLOGY OF OHIO
PHY 21040	PHYSICS IN ENTERTAINMENT AND THE ARTS (KBS)
PHY 21430	FRONTIERS IN ASTRONOMY (KBS)

**Additional Requirements (courses do not count in major GPA)**

BSCI 10120	BIOLOGICAL FOUNDATIONS (KBS) (KLAB) (min C grade for either course)	4
or BSCI 10110	BIOLOGICAL DIVERSITY (KBS) (KLAB)	
CHEM 10030	CHEMISTRY IN OUR WORLD (KBS) (min C grade)	3
HIST 11050	WORLD HISTORY: ANCIENT AND MEDIEVAL (DIVG) (KHUM)	3
or HIST 12070	EARLY AMERICA: FROM PRE-COLONIZATION TO CIVIL WAR AND RECONSTRUCTION (DIVD) (KHUM)	
or PAS 23001	BLACK EXPERIENCE I: BEGINNINGS TO 1865 (DIVG) (KHUM)	

Minimum Total Credit Hours: 46

**Mathematics and Science Concentration Requirements**

Code	Title	Credit Hours
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**Concentration Requirements (courses count in major GPA; min C grade required in all courses)**

ANTH 18630	HUMAN EVOLUTION (KBS)	3
or BSCI 10002	LIFE ON PLANET EARTH (KBS)	
MATH 10041	INTRODUCTORY STATISTICS (KMCR)	4
MATH 11010	ALGEBRA FOR CALCULUS (KMCR)	3
MATH 11022	TRIGONOMETRY (KMCR)	3
MATH 12002	ANALYTIC GEOMETRY AND CALCULUS I (KMCR)	5
MATH 34001	FUNDAMENTAL CONCEPTS OF ALGEBRA	3
MATH 34002	FUNDAMENTAL CONCEPTS OF GEOMETRY	3
MCED 40001	TEACHING MATHEMATICS IN MIDDLE CHILDHOOD II	3
MCED 40002	TEACHING SCIENCE IN THE MIDDLE CHILDHOOD II	3
PHY 11030	SEVEN IDEAS THAT SHOOK THE UNIVERSE (KBS)	3

**Physical Science Electives, choose from the following:** 5

CHEM 10060 & CHEM 10062	GENERAL CHEMISTRY I (KBS) and GENERAL CHEMISTRY I LABORATORY (KBS) (KLAB)	
PHY 13001 & PHY 13021	GENERAL COLLEGE PHYSICS I (KBS) and GENERAL COLLEGE PHYSICS LABORATORY I (KBS) (KLAB)	

**Earth Science Electives, choose from the following:** 4

GEOL 11040 & GEOL 11041	HOW THE EARTH WORKS (KBS) and HOW THE EARTH WORKS LABORATORY (KBS) (KLAB)	
GEOL 11042 & GEOL 11043	EARTH AND LIFE THROUGH TIME (KBS) and EARTH AND LIFE THROUGH TIME LABORATORY (KBS) (KLAB)	

**Science Elective, choose from the following:** 3-4

BSCI 20021	BASIC MICROBIOLOGY	
BSCI 30275	LOCAL FLORA (ELR)	
BSCI 30560	INVERTEBRATE ZOOLOGY	
GEOG 31062	FUNDAMENTALS OF METEOROLOGY	

GEOG 41073	CONSERVATION OF NATURAL RESOURCES	
GEOL 21080	ALL ABOUT THE OCEANS (KBS)	
GEOL 41073	GEOLOGY OF OHIO	
PHY 21040	PHYSICS IN ENTERTAINMENT AND THE ARTS (KBS)	
PHY 21430	FRONTIERS IN ASTRONOMY (KBS)	

**Additional Requirements (courses do not count in major GPA)**

BSCI 10120	BIOLOGICAL FOUNDATIONS (KBS) (KLAB) (min C grade for either course)	4
or BSCI 10110	BIOLOGICAL DIVERSITY (KBS) (KLAB)	
CHEM 10030	CHEMISTRY IN OUR WORLD (KBS) (min C grade)	3
HIST 11050	WORLD HISTORY: ANCIENT AND MEDIEVAL (DIVG) (KHUM)	3
or HIST 12070	EARLY AMERICA: FROM PRE-COLONIZATION TO CIVIL WAR AND RECONSTRUCTION (DIVD) (KHUM)	
or PAS 23001	BLACK EXPERIENCE I: BEGINNINGS TO 1865 (DIVG) (KHUM)	

Minimum Total Credit Hours: 55

**Mathematics and Social Studies Concentration Requirements**

Code	Title	Credit Hours
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**Concentration Requirements (courses count in major GPA; min C grade required in all courses)**

ECON 22060	PRINCIPLES OF MICROECONOMICS (KSS)	3
HIST 11050	WORLD HISTORY: ANCIENT AND MEDIEVAL (DIVG) (KHUM)	3
HIST 11051	WORLD HISTORY: MODERN (DIVG) (KHUM)	3
HIST 12070	EARLY AMERICA: FROM PRE-COLONIZATION TO CIVIL WAR AND RECONSTRUCTION (DIVD) (KHUM)	3
HIST 31061	HISTORY OF OHIO	3
MATH 10041	INTRODUCTORY STATISTICS (KMCR)	4
MATH 11010	ALGEBRA FOR CALCULUS (KMCR)	3
MATH 11022	TRIGONOMETRY (KMCR)	3
MATH 12002	ANALYTIC GEOMETRY AND CALCULUS I (KMCR)	5
MATH 34001	FUNDAMENTAL CONCEPTS OF ALGEBRA	3
MATH 34002	FUNDAMENTAL CONCEPTS OF GEOMETRY	3
MCED 40001	TEACHING MATHEMATICS IN MIDDLE CHILDHOOD II	3
MCED 40003	TEACHING SOCIAL STUDIES IN MIDDLE CHILDHOOD II	3
POL 10100	AMERICAN POLITICS (DIVD) (KSS)	3

**Additional Requirements (courses do not count in major GPA)**

BSCI 10001	HUMAN BIOLOGY (KBS)	3
Kent Core Basic Sciences (must include a laboratory)		3-4

Minimum Total Credit Hours: 51

**Social Studies and Language Arts Concentration Requirements**

Code	Title	Credit Hours
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**Concentration Requirements (courses count in major GPA; min C grade required in all courses)**

COMM 15000	INTRODUCTION TO HUMAN COMMUNICATION (KADL)	3
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COMM 26000	CRITICISM OF PUBLIC DISCOURSE (DIVD) (KHUM)	3	MCED 40003	TEACHING SOCIAL STUDIES IN MIDDLE CHILDHOOD II	3
or JMC 20001	MEDIA, POWER AND CULTURE (DIVD) (KSS)		PHY 11030	SEVEN IDEAS THAT SHOOK THE UNIVERSE (KBS)	3
ECON 22060	PRINCIPLES OF MICROECONOMICS (KSS)	3	POL 10100	AMERICAN POLITICS (DIVD) (KSS)	3
ENG 31001	FUNDAMENTAL ENGLISH GRAMMAR	3	Physical Science Electives, choose from the following:		5
or ENG 31003	LINGUISTICS		CHEM 10060 & CHEM 10062	GENERAL CHEMISTRY I (KBS) and GENERAL CHEMISTRY I LABORATORY (KBS) (KLAB)	
HIST 11050	WORLD HISTORY: ANCIENT AND MEDIEVAL (DIVG) (KHUM)	3	PHY 13001 & PHY 13021	GENERAL COLLEGE PHYSICS I (KBS) and GENERAL COLLEGE PHYSICS LABORATORY I (KBS) (KLAB)	
HIST 11051	WORLD HISTORY: MODERN (DIVG) (KHUM)	3	Earth Science Electives, choose from the following:		4
HIST 12070	EARLY AMERICA: FROM PRE-COLONIZATION TO CIVIL WAR AND RECONSTRUCTION (DIVD) (KHUM)	3	GEOL 11040 & GEOL 11041	HOW THE EARTH WORKS (KBS) and HOW THE EARTH WORKS LABORATORY (KBS) (KLAB)	
HIST 31061	HISTORY OF OHIO	3	GEOL 11042 & GEOL 11043	EARTH AND LIFE THROUGH TIME (KBS) and EARTH AND LIFE THROUGH TIME LABORATORY (KBS) (KLAB)	
MCED 40003	TEACHING SOCIAL STUDIES IN MIDDLE CHILDHOOD II	3	Science Elective, choose from the following:		3-4
POL 10100	AMERICAN POLITICS (DIVD) (KSS)	3	BSCI 20021	BASIC MICROBIOLOGY	
Literature Elective, choose from the following:		3	BSCI 30275	LOCAL FLORA (ELR)	
ENG 21001	INTRODUCTION TO ETHNIC LITERATURE OF THE UNITED STATES (DIVD)		BSCI 30560	INVERTEBRATE ZOOLOGY	
ENG 21002	INTRODUCTION TO WOMEN'S LITERATURE (DIVD)		GEOG 31062	FUNDAMENTALS OF METEOROLOGY	
ENG 21003	INTRODUCTION TO LGBT LITERATURE (DIVD)		GEOG 41073	CONSERVATION OF NATURAL RESOURCES	
ENG 32002	LITERATURE FOR YOUNG ADULTS		GEOL 21080	ALL ABOUT THE OCEANS (KBS)	
ENG 33012	MODERN AFRICAN-AMERICAN LITERATURE		GEOL 41073	GEOLOGY OF OHIO	
ENG 34021	WOMEN'S LITERATURE (DIVD)		PHY 21040	PHYSICS IN ENTERTAINMENT AND THE ARTS (KBS)	
ENG 35301	LESBIAN, GAY, BISEXUAL AND TRANSGENDER: CRITICAL PERSPECTIVES (DIVD)		PHY 21430	FRONTIERS IN ASTRONOMY (KBS)	
Writing Elective, choose from the following:		3	<b>Additional Requirements (courses do not count in major GPA; min C grade required in all courses)</b>		
ENG 20002	INTRODUCTION TO TECHNICAL WRITING		BSCI 10120	BIOLOGICAL FOUNDATIONS (KBS) (KLAB)	4
ENG 20021	INTRODUCTION TO CREATIVE WRITING		or BSCI 10110	BIOLOGICAL DIVERSITY (KBS) (KLAB)	
ENG 30050	WRITING AND RHETORIC IN A DIGITAL AGE		CHEM 10030	CHEMISTRY IN OUR WORLD (KBS)	3
ENG 30051	WRITING, RHETORIC AND NEW MEDIA		Minimum Total Credit Hours: 49		
ENG 30064	ARGUMENTATIVE PROSE WRITING				
ENG 30071	CREATIVE NONFICTION				
<b>Additional Requirements (courses do not count in major GPA)</b>					
BSCI 10001	HUMAN BIOLOGY (KBS)	3			
Kent Core Basic Sciences (must include a laboratory)		3-4			
General Electives <I had to add 3 credit hours of general electives to reach 120>		3			
Minimum Total Credit Hours:		45			

## Social Studies and Science Concentration Requirements

Code	Title	Credit Hours
<b>Concentration Requirements (courses count in major GPA; min C grade required in all courses)</b>		
ANTH 18630	HUMAN EVOLUTION (KBS)	3
or BSCI 10002	LIFE ON PLANET EARTH (KBS)	
ECON 22060	PRINCIPLES OF MICROECONOMICS (KSS)	3
HIST 11050	WORLD HISTORY: ANCIENT AND MEDIEVAL (DIVG) (KHUM)	3
HIST 11051	WORLD HISTORY: MODERN (DIVG) (KHUM)	3
HIST 12070	EARLY AMERICA: FROM PRE-COLONIZATION TO CIVIL WAR AND RECONSTRUCTION (DIVD) (KHUM)	3
HIST 31061	HISTORY OF OHIO	3
MCED 40002	TEACHING SCIENCE IN THE MIDDLE CHILDHOOD II	3

## Progression Requirement

Students must meet all professional requirements for admission to advanced study. To be admitted, students must display evidence of the following:

- Adequate communication skills
- Sound content area knowledge (language arts, mathematics, science or social studies)
- Basic understanding of the teaching profession
- Basic understanding of young adolescents
- Dispositions aligned with the conceptual framework of the College of Education, Health and Human Services, including being open-minded, flexible, caring and responsible.

Faculty will select the most qualified applicants based on an interview; letters of recommendation; GPA<sup>1</sup> and Praxis Core scores. Applicants to the Middle Childhood Education major should have experience working with young adolescence in a supervisory capacity, such as tutoring, camp counseling, volunteer work or related experience. Students should contact the College of Education, Health and Human Services' Vacca Office of Student Services, 304 White Hall, at the Kent campus, or the Geauga Student Services Office at 440-834-4187 at the Geauga

campus, or the Office of Student Services, 132 Main Hall, 330-244-3251 at the Stark campus, during the first year of study to inquire about the procedures and criteria associated with advanced study

<sup>1</sup> Undergraduate students who have not completed a minimum of 12 Kent State University credit hours will be evaluated for advanced study and professional phase based on their high school GPA for new freshmen or transfer GPA for transfer students.

## Graduation Requirements

Minimum Major GPA	Minimum Overall GPA
-	2.750

## Roadmaps

- Language Arts and Mathematics Concentration
- Language Arts and Science Concentration
- Mathematics and Science Concentration
- Mathematics and Social Studies Concentration
- Social Studies and Language Arts Concentration
- Social Studies and Science Concentration

## Language Arts and Mathematics Concentration

This roadmap is a recommended semester-by-semester plan of study for this major. However, courses designated as critical (!) must be completed in the semester listed to ensure a timely graduation.

Semester One		Credits
GEOG 17063	WORLD GEOGRAPHY (DIVG) (KSS)	3
HIST 11050	WORLD HISTORY: ANCIENT AND MEDIEVAL (DIVG) (KHUM)	3
or		
HIST 12070	or EARLY AMERICA: FROM PRE-COLONIZATION TO CIVIL WAR AND RECONSTRUCTION (DIVD) (KHUM)	
or		
PAS 23001	or BLACK EXPERIENCE I: BEGINNINGS TO 1865 (DIVG) (KHUM)	
!	MATH 14001 BASIC MATHEMATICAL CONCEPTS I (KMCR)	4
UC 10097	DESTINATION KENT STATE: FIRST YEAR EXPERIENCE	1
	Kent Core Requirement	3
	Kent Core Requirement	3
Credit Hours		17
Semester Two		
Requirement: successful completion of Praxis Core Reading, Writing and Mathematics		
BSCI 10001	HUMAN BIOLOGY (KBS)	3
COMM 15000	INTRODUCTION TO HUMAN COMMUNICATION (KADL)	3
!	CULT 29535 EDUCATION IN A DEMOCRATIC SOCIETY	3
MATH 11010	ALGEBRA FOR CALCULUS (KMCR)	3
MATH 14002	BASIC MATHEMATICAL CONCEPTS II (KMCR)	4
Credit Hours		16
Semester Three		
Requirement: minimum 2.750 overall GPA by the end of term		
ENG 31001	FUNDAMENTAL ENGLISH GRAMMAR	3
or	or LINGUISTICS	
ENG 31003		
MATH 11022	TRIGONOMETRY (KMCR)	3
MCED 20000	LEARNING AND EXPERIENCE IN MIDDLE CHILDHOOD EDUCATION	3
PSYC 11762	GENERAL PSYCHOLOGY (DIVD) (KSS)	3
	Kent Core Requirement	3
Credit Hours		15
Semester Four		
Requirement: minimum 2.750 overall GPA		
COMM 26000	CRITICISM OF PUBLIC DISCOURSE (DIVD) (KHUM)	3
or		
JMC 20001	or MEDIA, POWER AND CULTURE (DIVD) (KSS)	
ENG 22071	GREAT BOOKS TO 1700 (KHUM)	3
or	or GREAT BOOKS SINCE 1700 (KHUM)	
ENG 22072		
!	EPSY 29525 EDUCATIONAL PSYCHOLOGY	3
MATH 12002	ANALYTIC GEOMETRY AND CALCULUS I (KMCR)	5
	Kent Core Requirement	3
Credit Hours		17
Semester Five		
Requirement: minimum 2.750 overall GPA		
MATH 34001	FUNDAMENTAL CONCEPTS OF ALGEBRA	3
!	MCED 30001 TEACHING MATHEMATICS IN MIDDLE CHILDHOOD I	3
!	MCED 30002 INTEGRATED SOCIAL STUDIES AND SCIENCE IN MIDDLE CHILDHOOD	3

!	MCED 31000	TEACHING AND LEARNING IN MIDDLE CHILDHOOD	3
!	MCED 40006	READING AND WRITING IN MIDDLE CHILDHOOD (WIC)	6
Credit Hours			18
Semester Six			
Requirement: minimum 2.750 overall GPA			
MATH 34002	FUNDAMENTAL CONCEPTS OF GEOMETRY		3
!	MCED 40001	TEACHING MATHEMATICS IN MIDDLE CHILDHOOD II	3
!	MCED 40007	TEACHING READING WITH LITERATURE IN MIDDLE CHILDHOOD	3
!	MCED 41000	CURRICULUM AND ORGANIZATION IN MIDDLE CHILDHOOD	3
Writing Elective			3
Credit Hours			15
Semester Seven			
Requirement: minimum 2.750 overall GPA			
MATH 10041	INTRODUCTORY STATISTICS (KMCR)		4
MCED 40005	EFFECTIVE USE OF PHONICS IN READING		3
SPED 23000	INTRODUCTION TO EXCEPTIONALITIES (DIVD)		3
Literature Electives			3
Credit Hours			13
Semester Eight			
Requirement: minimum C grade in all professional courses and minimum 2.750 overall GPA			
MCED 42392	STUDENT TEACHING IN MIDDLE CHILDHOOD (ELR)		9
!	MCED 49525	INQUIRY INTO PROFESSIONAL PRACTICE:MIDDLE CHILDHOOD	3
Credit Hours			12
Minimum Total Credit Hours:			123

## Language Arts and Science Concentration

This roadmap is a recommended semester-by-semester plan of study for this major. However, courses designated as critical (!) must be completed in the semester listed to ensure a timely graduation.

Semester One		Credits
GEOG 17063	WORLD GEOGRAPHY (DIVG) (KSS)	3
! MATH 14001	BASIC MATHEMATICAL CONCEPTS I (KMCR)	4
PHY 11030	SEVEN IDEAS THAT SHOOK THE UNIVERSE (KBS)	3
UC 10097	DESTINATION KENT STATE: FIRST YEAR EXPERIENCE	1
Kent Core Requirement		3
Kent Core Requirement		3
Credit Hours		17
Semester Two		
Requirement: successful completion of Praxis Core Reading, Writing and Mathematics		
! CULT 29535	EDUCATION IN A DEMOCRATIC SOCIETY	3
GEOL 11040	HOW THE EARTH WORKS (KBS)	3
or	or EARTH AND LIFE THROUGH TIME (KBS)	
GEOL 11042		
GEOL 11041	HOW THE EARTH WORKS LABORATORY (KBS)	1
or	(KLAB)	
GEOL 11043	or EARTH AND LIFE THROUGH TIME LABORATORY (KBS) (KLAB)	
HIST 11050	WORLD HISTORY: ANCIENT AND MEDIEVAL (DIVG) (KHUM)	3
or	or EARLY AMERICA: FROM PRE-COLONIZATION TO CIVIL WAR AND RECONSTRUCTION (DIVD) (KHUM)	
HIST 12070		
or	or BLACK EXPERIENCE I: BEGINNINGS TO 1865 (DIVG) (KHUM)	
PAS 23001		
! MATH 14002	BASIC MATHEMATICAL CONCEPTS II (KMCR)	4
Credit Hours		14
Semester Three		
Requirement: minimum 2.750 overall GPA by the end of term		
BSCI 10120	BIOLOGICAL FOUNDATIONS (KBS) (KLAB)	4
or	or BIOLOGICAL DIVERSITY (KBS) (KLAB)	
BSCI 10110		
CHEM 10030	CHEMISTRY IN OUR WORLD (KBS)	3
COMM 15000	INTRODUCTION TO HUMAN COMMUNICATION (KADL)	3
MCED 20000	LEARNING AND EXPERIENCE IN MIDDLE CHILDHOOD EDUCATION	3
Kent Core Requirement		3
Credit Hours		16
Semester Four		
Requirement: minimum 2.750 overall GPA		
CHEM 10060	GENERAL CHEMISTRY I (KBS)	4
or	or GENERAL COLLEGE PHYSICS I (KBS)	
PHY 13001		
CHEM 10062	GENERAL CHEMISTRY I LABORATORY (KBS)	1
or	(KLAB)	
PHY 13021	or GENERAL COLLEGE PHYSICS LABORATORY I (KBS) (KLAB)	
COMM 26000	CRITICISM OF PUBLIC DISCOURSE (DIVD)	3
or	(KHUM)	
JMC 20001	or MEDIA, POWER AND CULTURE (DIVD) (KSS)	

ENG 22071	GREAT BOOKS TO 1700 (KHUM)	3
or	or GREAT BOOKS SINCE 1700 (KHUM)	
ENG 22072		
ENG 31001	FUNDAMENTAL ENGLISH GRAMMAR	3
or	or LINGUISTICS	
ENG 31003		
! EPSY 29525	EDUCATIONAL PSYCHOLOGY	3
Credit Hours		17
Semester Five		
Requirement: minimum 2.750 overall GPA		
! MCED 30001	TEACHING MATHEMATICS IN MIDDLE CHILDHOOD I	3
! MCED 30002	INTEGRATED SOCIAL STUDIES AND SCIENCE IN MIDDLE CHILDHOOD	3
! MCED 31000	TEACHING AND LEARNING IN MIDDLE CHILDHOOD	3
! MCED 40006	READING AND WRITING IN MIDDLE CHILDHOOD (WIC)	6
Credit Hours		15
Semester Six		
Requirement: minimum 2.750 overall GPA		
ANTH 18630	HUMAN EVOLUTION (KBS)	3
or	or LIFE ON PLANET EARTH (KBS)	
BSCI 10002		
! MCED 40002	TEACHING SCIENCE IN THE MIDDLE CHILDHOOD II	3
! MCED 40007	TEACHING READING WITH LITERATURE IN MIDDLE CHILDHOOD	3
! MCED 41000	CURRICULUM AND ORGANIZATION IN MIDDLE CHILDHOOD	3
Writing Elective		3
Credit Hours		15
Semester Seven		
Requirement: minimum 2.750 overall GPA		
MCED 40005	EFFECTIVE USE OF PHONICS IN READING	3
PSYC 11762	GENERAL PSYCHOLOGY (DIVD) (KSS)	3
SPED 23000	INTRODUCTION TO EXCEPTIONALITIES (DIVD)	3
Literature Elective		3
Science Elective		3-4
Credit Hours		15
Semester Eight		
Requirement: minimum C grade in all professional courses and minimum 2.750 overall GPA		
MCED 42392	STUDENT TEACHING IN MIDDLE CHILDHOOD (ELR)	9
! MCED 49525	INQUIRY INTO PROFESSIONAL PRACTICE: MIDDLE CHILDHOOD	3
Credit Hours		12
Minimum Total Credit Hours:		121

## Mathematics and Science Concentration

This roadmap is a recommended semester-by-semester plan of study for this major. However, courses designated as critical (!) must be completed in the semester listed to ensure a timely graduation.

Semester One		Credits
GEOG 17063	WORLD GEOGRAPHY (DIVG) (KSS)	3
! MATH 14001	BASIC MATHEMATICAL CONCEPTS I (KMCR)	4
PHY 11030	SEVEN IDEAS THAT SHOOK THE UNIVERSE (KBS)	3
UC 10097	DESTINATION KENT STATE: FIRST YEAR EXPERIENCE	1
Kent Core Requirement		3
Kent Core Requirement		3
Credit Hours		17
Semester Two		
Requirement: successful completion of Praxis Core Reading, Writing and Mathematics		
ANTH 18630	HUMAN EVOLUTION (KBS) or BSCI 10002	3
CHEM 10030	CHEMISTRY IN OUR WORLD (KBS)	3
! CULT 29535	EDUCATION IN A DEMOCRATIC SOCIETY	3
MATH 11010	ALGEBRA FOR CALCULUS (KMCR)	3
MATH 14002	BASIC MATHEMATICAL CONCEPTS II (KMCR)	4
Credit Hours		16
Semester Three		
Requirement: minimum 2.750 overall GPA by the end of term		
BSCI 10120	BIOLOGICAL FOUNDATIONS (KBS) (KLAB) or BSCI 10110	4
MATH 10041	INTRODUCTORY STATISTICS (KMCR)	4
MATH 11022	TRIGONOMETRY (KMCR)	3
MCED 20000	LEARNING AND EXPERIENCE IN MIDDLE CHILDHOOD EDUCATION	3
Kent Core Requirement		3
Credit Hours		17
Semester Four		
Requirement: minimum 2.750 overall GPA		
CHEM 10060	GENERAL CHEMISTRY I (KBS) or PHY 13001	4
CHEM 10062	GENERAL CHEMISTRY I LABORATORY (KBS) (KLAB) or PHY 13021	1
GEOL 11040	HOW THE EARTH WORKS (KBS) or GEOL 11042	3
GEOL 11041	HOW THE EARTH WORKS LABORATORY (KBS) (KLAB) or GEOL 11043	1
! EPSY 29525	EDUCATIONAL PSYCHOLOGY	3
! MATH 12002	ANALYTIC GEOMETRY AND CALCULUS I (KMCR)	5
Credit Hours		17
Semester Five		
Requirement: minimum 2.750 overall GPA		
MATH 34001	FUNDAMENTAL CONCEPTS OF ALGEBRA	3

! MCED 30001	TEACHING MATHEMATICS IN MIDDLE CHILDHOOD I	3
! MCED 30002	INTEGRATED SOCIAL STUDIES AND SCIENCE IN MIDDLE CHILDHOOD	3
! MCED 31000	TEACHING AND LEARNING IN MIDDLE CHILDHOOD	3
! MCED 40006	READING AND WRITING IN MIDDLE CHILDHOOD (WIC)	6
Credit Hours		18
Semester Six		
Requirement: minimum 2.750 overall GPA		
! MCED 40001	TEACHING MATHEMATICS IN MIDDLE CHILDHOOD II	3
! MCED 40002	TEACHING SCIENCE IN THE MIDDLE CHILDHOOD II	3
! MCED 40007	TEACHING READING WITH LITERATURE IN MIDDLE CHILDHOOD	3
! MCED 41000	CURRICULUM AND ORGANIZATION IN MIDDLE CHILDHOOD	3
PSYC 11762	GENERAL PSYCHOLOGY (DIVD) (KSS)	3
Credit Hours		15
Semester Seven		
Requirement: minimum 2.750 overall GPA		
HIST 11050	WORLD HISTORY: ANCIENT AND MEDIEVAL (DIVG) (KHUM) or HIST 12070 or PAS 23001	3
ENG 22071	GREAT BOOKS TO 1700 (KHUM) or ENG 22072	3
MATH 34002	FUNDAMENTAL CONCEPTS OF GEOMETRY	3
MCED 40005	EFFECTIVE USE OF PHONICS IN READING	3
SPED 23000	INTRODUCTION TO EXCEPTIONALITIES (DIVD)	3
Science Elective		3-4
Credit Hours		18
Semester Eight		
Requirement: minimum C grade in all professional courses and minimum 2.750 overall GPA		
MCED 42392	STUDENT TEACHING IN MIDDLE CHILDHOOD (ELR)	9
! MCED 49525	INQUIRY INTO PROFESSIONAL PRACTICE:MIDDLE CHILDHOOD	3
Credit Hours		12
Minimum Total Credit Hours:		130

## Mathematics and Social Studies Concentration

This roadmap is a recommended semester-by-semester plan of study for this major. However, courses designated as critical (!) must be completed in the semester listed to ensure a timely graduation.

Semester One		Credits
GEOG 17063	WORLD GEOGRAPHY (DIVG) (KSS)	3
HIST 12070	EARLY AMERICA: FROM PRE-COLONIZATION TO CIVIL WAR AND RECONSTRUCTION (DIVD) (KHUM)	3
! MATH 14001	BASIC MATHEMATICAL CONCEPTS I (KMCR)	4
UC 10097	DESTINATION KENT STATE: FIRST YEAR EXPERIENCE	1



Kent Core Requirement	3
Kent Core Requirement	3
Credit Hours	17

**Semester Two**

Requirement: successful completion of Praxis Core Reading, Writing and Mathematics

CULT 29535	EDUCATION IN A DEMOCRATIC SOCIETY	3
MATH 11010	ALGEBRA FOR CALCULUS (KMCR)	3
MATH 14002	BASIC MATHEMATICAL CONCEPTS II (KMCR)	4
POL 10100	AMERICAN POLITICS (DIVD) (KSS)	3
PSYC 11762	GENERAL PSYCHOLOGY (DIVD) (KSS)	3
Credit Hours		16

**Semester Three**

Requirement: minimum 2.750 overall GPA by the end of term

HIST 11050	WORLD HISTORY: ANCIENT AND MEDIEVAL (DIVG) (KHUM)	3
MATH 10041	INTRODUCTORY STATISTICS (KMCR)	4
MATH 11022	TRIGONOMETRY (KMCR)	3
MCED 20000	LEARNING AND EXPERIENCE IN MIDDLE CHILDHOOD EDUCATION	3
Kent Core Requirement		3
Credit Hours		16

**Semester Four**

Requirement: minimum 2.750 overall GPA

BSCI 10001	HUMAN BIOLOGY (KBS)	3
ENG 22071	GREAT BOOKS TO 1700 (KHUM)	3
or	or GREAT BOOKS SINCE 1700 (KHUM)	
ENG 22072		
! EPSY 29525	EDUCATIONAL PSYCHOLOGY	3
HIST 11051	WORLD HISTORY: MODERN (DIVG) (KHUM)	3
! MATH 12002	ANALYTIC GEOMETRY AND CALCULUS I (KMCR)	5
Credit Hours		17

**Semester Five**

Requirement: minimum 2.750 overall GPA

MATH 34001	FUNDAMENTAL CONCEPTS OF ALGEBRA	3
! MCED 30001	TEACHING MATHEMATICS IN MIDDLE CHILDHOOD I	3
! MCED 30002	INTEGRATED SOCIAL STUDIES AND SCIENCE IN MIDDLE CHILDHOOD	3
! MCED 31000	TEACHING AND LEARNING IN MIDDLE CHILDHOOD	3
! MCED 40006	READING AND WRITING IN MIDDLE CHILDHOOD (WIC)	6
Credit Hours		18

**Semester Six**

Requirement: minimum 2.750 overall GPA. Note: apply for student teaching

MATH 34002	FUNDAMENTAL CONCEPTS OF GEOMETRY	3
! MCED 40001	TEACHING MATHEMATICS IN MIDDLE CHILDHOOD II	3
! MCED 40003	TEACHING SOCIAL STUDIES IN MIDDLE CHILDHOOD II	3
! MCED 40007	TEACHING READING WITH LITERATURE IN MIDDLE CHILDHOOD	3
! MCED 41000	CURRICULUM AND ORGANIZATION IN MIDDLE CHILDHOOD	3
Credit Hours		15

**Semester Seven**

Requirement: minimum 2.750 overall GPA

ECON 22060	PRINCIPLES OF MICROECONOMICS (KSS)	3
HIST 31061	HISTORY OF OHIO	3
MCED 40005	EFFECTIVE USE OF PHONICS IN READING	3
SPED 23000	INTRODUCTION TO EXCEPTIONALITIES (DIVD)	3
Kent Core Requirement		3-4
Credit Hours		15

**Semester Eight**

Requirement: minimum C grade in all professional courses and minimum 2.750 overall GPA

MCED 42392	STUDENT TEACHING IN MIDDLE CHILDHOOD (ELR)	9
! MCED 49525	INQUIRY INTO PROFESSIONAL PRACTICE:MIDDLE CHILDHOOD	3
Credit Hours		12

Minimum Total Credit Hours: 126

## Social Studies and Language Arts Concentration

This roadmap is a recommended semester-by-semester plan of study for this major. However, courses designated as critical (!) must be completed in the semester listed to ensure a timely graduation.

Semester One		Credits
GEOG 17063	WORLD GEOGRAPHY (DIVG) (KSS)	3
HIST 12070	EARLY AMERICA: FROM PRE-COLONIZATION TO CIVIL WAR AND RECONSTRUCTION (DIVD) (KHUM)	3
! MATH 14001	BASIC MATHEMATICAL CONCEPTS I (KMCR)	4
UC 10097	DESTINATION KENT STATE: FIRST YEAR EXPERIENCE	1
Kent Core Requirement		3
Kent Core Requirement		3
Credit Hours		17
Semester Two		
Requirement: successful completion of Praxis Core Reading, Writing and Mathematics		
BSCI 10001	HUMAN BIOLOGY (KBS)	3
COMM 15000	INTRODUCTION TO HUMAN COMMUNICATION (KADL)	3
! CULT 29535	EDUCATION IN A DEMOCRATIC SOCIETY	3
! MATH 14002	BASIC MATHEMATICAL CONCEPTS II (KMCR)	4
PSYC 11762	GENERAL PSYCHOLOGY (DIVD) (KSS)	3
Credit Hours		16
Semester Three		
Requirement: minimum 2.750 overall GPA by the end of term		
HIST 11050	WORLD HISTORY: ANCIENT AND MEDIEVAL (DIVG) (KHUM)	3
MCED 20000	LEARNING AND EXPERIENCE IN MIDDLE CHILDHOOD EDUCATION	3
POL 10100	AMERICAN POLITICS (DIVD) (KSS)	3
Kent Core Requirement		3
Kent Core Requirement		3-4
Credit Hours		15
Semester Four		
Requirement: minimum 2.750 overall GPA		
COMM 26000	CRITICISM OF PUBLIC DISCOURSE (DIVD) (KHUM)	3
or		
JMC 20001	or MEDIA, POWER AND CULTURE (DIVD) (KSS)	
ENG 22071	GREAT BOOKS TO 1700 (KHUM)	3
or	or GREAT BOOKS SINCE 1700 (KHUM)	
ENG 22072		
ENG 31001	FUNDAMENTAL ENGLISH GRAMMAR	3
! EPSY 29525	EDUCATIONAL PSYCHOLOGY	3
HIST 11051	WORLD HISTORY: MODERN (DIVG) (KHUM)	3
Credit Hours		15
Semester Five		
Requirement: minimum 2.750 overall GPA		
! MCED 30001	TEACHING MATHEMATICS IN MIDDLE CHILDHOOD I	3
! MCED 30002	INTEGRATED SOCIAL STUDIES AND SCIENCE IN MIDDLE CHILDHOOD	3
! MCED 31000	TEACHING AND LEARNING IN MIDDLE CHILDHOOD	3
! MCED 40006	READING AND WRITING IN MIDDLE CHILDHOOD (WIC)	6
Credit Hours		15

### Semester Six

Requirement: minimum 2.750 overall GPA

! MCED 40003	TEACHING SOCIAL STUDIES IN MIDDLE CHILDHOOD II	3
! MCED 40005	EFFECTIVE USE OF PHONICS IN READING	3
! MCED 40007	TEACHING READING WITH LITERATURE IN MIDDLE CHILDHOOD	3
! MCED 41000	CURRICULUM AND ORGANIZATION IN MIDDLE CHILDHOOD	3
Writing Elective		3
Credit Hours		15

### Semester Seven

Requirement: minimum 2.750 overall GPA

ECON 22060	PRINCIPLES OF MICROECONOMICS (KSS)	3
HIST 31061	HISTORY OF OHIO	3
SPED 23000	INTRODUCTION TO EXCEPTIONALITIES (DIVD)	3
Literature Elective		3
General Elective		3
Credit Hours		15

### Semester Eight

Requirement: minimum C grade in all professional courses and minimum 2.750 overall GPA

MCED 42392	STUDENT TEACHING IN MIDDLE CHILDHOOD (ELR)	9
! MCED 49525	INQUIRY INTO PROFESSIONAL PRACTICE:MIDDLE CHILDHOOD	3
Credit Hours		12
Minimum Total Credit Hours:		120

## Social Studies and Science Concentration

This roadmap is a recommended semester-by-semester plan of study for this major. However, courses designated as critical (!) must be completed in the semester listed to ensure a timely graduation.

Semester One		Credits
GEOG 17063	WORLD GEOGRAPHY (DIVG) (KSS)	3
! MATH 14001	BASIC MATHEMATICAL CONCEPTS I (KMCR)	4
PHY 11030	SEVEN IDEAS THAT SHOOK THE UNIVERSE (KBS)	3
UC 10097	DESTINATION KENT STATE: FIRST YEAR EXPERIENCE	1
Kent Core Requirement		3
Kent Core Requirement		3
Credit Hours		17

Semester Two		Credits
Note: successful completion of Praxis Core Reading, Writing and Mathematics		
BSCI 10120 or BSCI 10110	BIOLOGICAL FOUNDATIONS (KBS) (KLAB) or BIOLOGICAL DIVERSITY (KBS) (KLAB)	4
! CULT 29535	EDUCATION IN A DEMOCRATIC SOCIETY	3
GEOL 11040 or GEOL 11042	HOW THE EARTH WORKS (KBS) or EARTH AND LIFE THROUGH TIME (KBS)	3
GEOL 11041 or GEOL 11043	HOW THE EARTH WORKS LABORATORY (KBS) (KLAB) or EARTH AND LIFE THROUGH TIME LABORATORY (KBS) (KLAB)	1
! MATH 14002	BASIC MATHEMATICAL CONCEPTS II (KMCR)	4
PSYC 11762	GENERAL PSYCHOLOGY (DIVD) (KSS)	3
Credit Hours		18

Semester Three		Credits
Requirement: minimum 2.750 overall GPA by the end of term		
CHEM 10030	CHEMISTRY IN OUR WORLD (KBS)	3
HIST 11050	WORLD HISTORY: ANCIENT AND MEDIEVAL (DIVG) (KHUM)	3
MCED 20000	LEARNING AND EXPERIENCE IN MIDDLE CHILDHOOD EDUCATION	3
POL 10100	AMERICAN POLITICS (DIVD) (KSS)	3
Kent Core Requirement		3
Credit Hours		15

Semester Four		Credits
Requirement: minimum 2.750 overall GPA		
CHEM 10060 or PHY 13001	GENERAL CHEMISTRY I (KBS) or GENERAL COLLEGE PHYSICS I (KBS)	4
CHEM 10062 or PHY 13021	GENERAL CHEMISTRY I LABORATORY (KBS) (KLAB) or GENERAL COLLEGE PHYSICS LABORATORY I (KBS) (KLAB)	1
ECON 22060	PRINCIPLES OF MICROECONOMICS (KSS)	3
ENG 22071 or ENG 22072	GREAT BOOKS TO 1700 (KHUM) or GREAT BOOKS SINCE 1700 (KHUM)	3
! EPSY 29525	EDUCATIONAL PSYCHOLOGY	3
HIST 11051	WORLD HISTORY: MODERN (DIVG) (KHUM)	3
Credit Hours		17

### Semester Five

Requirement: minimum 2.750 overall GPA

! MCED 30001	TEACHING MATHEMATICS IN MIDDLE CHILDHOOD I	3
! MCED 30002	INTEGRATED SOCIAL STUDIES AND SCIENCE IN MIDDLE CHILDHOOD	3
MCED 31000	TEACHING AND LEARNING IN MIDDLE CHILDHOOD	3
! MCED 40006	READING AND WRITING IN MIDDLE CHILDHOOD (WIC)	6
Credit Hours		15

### Semester Six

Requirement: minimum 2.750 overall GPA

ANTH 18630 or BSCI 10002	HUMAN EVOLUTION (KBS) or LIFE ON PLANET EARTH (KBS)	3
! MCED 40002	TEACHING SCIENCE IN THE MIDDLE CHILDHOOD II	3
! MCED 40003	TEACHING SOCIAL STUDIES IN MIDDLE CHILDHOOD II	3
! MCED 40007	TEACHING READING WITH LITERATURE IN MIDDLE CHILDHOOD	3
! MCED 41000	CURRICULUM AND ORGANIZATION IN MIDDLE CHILDHOOD	3
Credit Hours		15

### Semester Seven

Requirement: minimum 2.750 overall GPA

HIST 12070	EARLY AMERICA: FROM PRE-COLONIZATION TO CIVIL WAR AND RECONSTRUCTION (DIVD) (KHUM)	3
HIST 31061	HISTORY OF OHIO	3
MCED 40005	EFFECTIVE USE OF PHONICS IN READING	3
SPED 23000	INTRODUCTION TO EXCEPTIONALITIES (DIVD)	3
Science Elective		3-4
Credit Hours		15

### Semester Eight

Requirement: minimum 2.750 overall GPA

MCED 42392	STUDENT TEACHING IN MIDDLE CHILDHOOD (ELR)	9
! MCED 49525	INQUIRY INTO PROFESSIONAL PRACTICE: MIDDLE CHILDHOOD	3
Credit Hours		12
Minimum Total Credit Hours:		124

## Middle Childhood Education– Language Arts and Reading (4-9) Additional Licensure Preparation - Non-Degree

College of Education Health and Human Services  
School of Teaching, Learning and Curriculum Studies  
404 White Hall  
Kent Campus  
330-672-2580  
[www.kent.edu/ehhs/tlcs](http://www.kent.edu/ehhs/tlcs)

## Description

The Middle Childhood Education–Language Arts and Reading Grades (4-9) Additional Licensure Preparation non-degree program provides coursework and field-based experiences for students who plan to apply for additional teacher licensure from the Ohio Department of Education. This non-degree program cannot be used for students seeking initial licensure.

Students also interested in a master's degree at Kent State University must be fully admitted into the master's program and complete the prescribed coursework for the master's degree, in addition to courses that are prescribed for additional licensure.

### Fully Offered At:

- Kent Campus

## Admission Requirements

Applicants will be assessed holistically, considering academic credentials; standardized test scores of reading, writing and mathematics; academic or professional references; non-academic dimensions; and other specific program criteria.

- Bachelor's degree from an accredited college or university
- Minimum 3.000 overall undergraduate GPA on a 4.000 point scale
- Official transcript(s)
- Goal statement
- Two letters of recommendation
- Questions in Anticipation of Licensure Form
- Evidence of valid four-year Resident Educator or five-year Professional State of Ohio teaching licensure
- An interview will be conducted prior to full acceptance into the program.

For more information about graduate admission, please visit the Graduate Studies website.

## Program Learning Outcomes

Completers of this non-degree program will be able to:

1. Describe the Ohio Standards for the Teaching Profession.
2. Describe the Ohio Standards for Professional Development.
3. Describe the Ohio School Operating Standards.
4. Describe the Ohio Value Added Progress Dimension(s).
5. Demonstrate knowledge and skills consistent with the AMLE standards.
6. Demonstrate knowledge and skills identified in CAEP Advanced Standard A.1.1

## Program Requirements

### Licensure Requirements

Code	Title	Credit Hours
<b>Licensure Requirements</b>		
CI 57504	TEACHING READING AND WRITING IN MIDDLE GRADES	3
CI 67092	ADVANCED PRACTICUM AND INTERNSHIP IN CURRICULUM AND INSTRUCTION <sup>1</sup>	1

CI 67107	CURRICULUM AND ORGANIZATION IN THE MIDDLE GRADES	3
CI 67108	TEACHING AND LEARNING IN THE MIDDLE GRADES	3
CI 67396	INDIVIDUAL INVESTIGATION IN READING AND LANGUAGE ARTS	3
ETEC 57400	TRENDS IN EDUCATIONAL TECHNOLOGY	3
HDFS 64027	EARLY ADOLESCENCE	3
MCED 50005	EFFECTIVE USE OF PHONICS IN READING	3
MCED 50007	TEACHING READING WITH LITERATURE IN MIDDLE CHILDHOOD	3
Minimum Total Credit Hours:		25

<sup>1</sup> Requirement to be determined by faculty advisor after review of previous teaching experience.

### Graduation Requirements

- Minimum 3.000 overall GPA
- Additional Coursework: An analysis of additional content-area coursework required at the post-undergraduate level will be completed before entering into the program, and a Plan of Study will be created based on transcript analysis and current licensure requirements by the Ohio Department of Education. A minimum C grade is required in each of these courses. This coursework would be in addition to requirements for the Middle Childhood Education non-degree program.

### Licensure Information

Prior to program completion, the candidate must demonstrate proficiencies in the following areas (including but not limited to): Data literacy and analysis, use of research and assessment data, leadership and collaboration, utilizing and supporting appropriate technology for the discipline, and application of professional dispositions, laws and policies, codes of ethics and professional standards appropriate to their field of specialization.

Candidates seeking Ohio licensure are required to pass the OAE Content Knowledge Assessment for each teaching field in order to apply for licensure. Students should consult their advisors for specific program requirements and refer to the Ohio Department of Education-Educator Preparation website for more information on assessments specific to licensure type.

Students who do not apply for license within 12 months of program completion may be subject to additional course requirements, based on Ohio licensure standards in force at the time of application.

## Middle Childhood Education– Mathematics (4-9) Additional Licensure Preparation - Non-Degree

College of Education Health and Human Services  
School of Teaching, Learning and Curriculum Studies  
404 White Hall  
Kent Campus  
330-672-2580  
[www.kent.edu/ehhs/tlcs](http://www.kent.edu/ehhs/tlcs)

## Description

The Middle Childhood Education-Mathematics (4-9) Additional Licensure Preparation non-degree program provides coursework and field-based experiences for students who plan to apply for additional teacher licensure from the Ohio Department of Education. This non-degree program cannot be used for students seeking initial licensure.

Students also interested in a master's degree at Kent State University must be fully admitted into the master's program and complete the prescribed coursework for the master's degree, in addition to courses that are prescribed for additional licensure.

### Fully Offered At:

- Kent Campus

## Admission Requirements

Applicants will be assessed holistically, considering academic credentials; standardized test scores of reading, writing, and mathematics; academic or professional references; non-academic dimensions; and other specific program criteria.

- Bachelor's degree from an accredited college or university
- Minimum 3.000 overall undergraduate GPA on a 4.000 point scale
- Official transcript(s)
- Goal statement
- Questions in Anticipation of Licensure Form
- Evidence of valid 4-Year Resident Educator or 5-Year Professional State of Ohio teaching license
- Two letters of recommendation
- An interview will be conducted prior to full acceptance into the program.

For more information about graduate admission, please visit the Graduate Studies website.

## Program Learning Outcomes

Completers of this non-degree program will be able to:

1. Describe the Ohio Standards for the Teaching Profession.
2. Describe the Ohio Standards for Professional Development.
3. Describe the Ohio School Operating Standards.
4. Describe the Ohio Value Added Progress Dimension(s).
5. Demonstrate knowledge and skills consistent with the AMLE standards.
6. Demonstrate knowledge and skills identified in CAEP Advanced Standard A.1.1.

## Program Requirements

### Licensure Requirements

Code	Title	Credit Hours
<b>Licensure Requirements</b>		
CI 57501	TEACHING MATHEMATICS IN EARLY AND MIDDLE GRADES	3
or CI 67226	IMPROVING MATHEMATICS INSTRUCTION IN MIDDLE CHILDHOOD	
CI 57504	TEACHING READING AND WRITING IN MIDDLE GRADES	3

CI 67092	ADVANCED PRACTICUM AND INTERNSHIP IN CURRICULUM AND INSTRUCTION <sup>1</sup>	1
CI 67107	CURRICULUM AND ORGANIZATION IN THE MIDDLE GRADES	3
CI 67108	TEACHING AND LEARNING IN THE MIDDLE GRADES	3
CI 67396	INDIVIDUAL INVESTIGATION IN READING AND LANGUAGE ARTS	3
ETEC 57400	TRENDS IN EDUCATIONAL TECHNOLOGY	3
HDFS 64027	EARLY ADOLESCENCE	3
MCED 50005	EFFECTIVE USE OF PHONICS IN READING	3
MCED 50007	TEACHING READING WITH LITERATURE IN MIDDLE CHILDHOOD	3
Minimum Total Credit Hours:		28

<sup>1</sup> Requirement to be determined by faculty advisor after review of previous teaching experience.

## Graduation Requirements

- Minimum 3.000 overall GPA
- Additional Coursework: An analysis of additional content-area coursework required at the post-undergraduate level will be completed before entering into the program, and a Plan of Study will be created based on transcript analysis and current licensure requirements by the Ohio Department of Education. A minimum C grade is required in each of these courses. This coursework would be in addition to requirements for the Middle Childhood Education non-degree program.

## Licensure Information

Prior to program completion, the candidate must demonstrate proficiencies in the following areas (including but not limited to): Data literacy and analysis, use of research and assessment data, leadership and collaboration, utilizing and supporting appropriate technology for the discipline, and application of professional dispositions, laws and policies, codes of ethics and professional standards appropriate to their field of specialization.

Candidates seeking Ohio licensure are required to pass the OAE Content Knowledge Assessment for each teaching field in order to apply for licensure. Students should consult their advisors for specific program requirements and refer to the Ohio Department of Education-Educator Preparation website for more information on assessments specific to licensure type.

Students who do not apply for license within 12 months of program completion may be subject to additional course requirements, based on Ohio licensure standards in force at the time of application.

## Middle Childhood Education– Science (4-9) Additional Licensure Preparation - Non-Degree

**College of Education Health and Human Services**  
School of Teaching, Learning and Curriculum Studies  
404 White Hall  
Kent Campus  
330-672-2580  
[www.kent.edu/ehhs/tlcs](http://www.kent.edu/ehhs/tlcs)



## Description

The Middle Childhood Education–Science Grades 4-9 non-degree program provides coursework and field-based experiences for students who plan to apply for additional teacher licensure from the Ohio Department of Education. This non-degree program cannot be used for students seeking initial licensure.

Students also interested in a master's degree at Kent State University must be fully admitted into the master's program and complete the prescribed coursework for the master's degree, in addition to courses that are prescribed for additional licensure.

### Fully Offered At:

- Kent Campus

## Admission Requirements

Applicants will be assessed holistically, considering academic credentials; standardized test scores of reading, writing, and mathematics; academic or professional references; non-academic dimensions; and other specific program criteria.

- Bachelor's degree from an accredited college or university
- Minimum 3.000 GPA on a 4.000 point scale
- Official transcript(s)
- Goal statement
- Questions in Anticipation of Licensure Form
- Evidence of valid 4-Year Resident Educator or 5-Year Professional State of Ohio teaching license
- Two letters of recommendation
- An interview will be conducted prior to full acceptance into the program

For more information about graduate admission, please visit the Graduate Studies website.

## Program Learning Outcomes

Completers of this non-degree program will be able to:

1. Describe the Ohio Standards for the Teaching Profession.
2. Describe the Ohio Standards for Professional Development.
3. Describe the Ohio School Operating Standards.
4. Describe the Ohio Value Added Progress Dimension(s).
5. Demonstrate knowledge and skills consistent with the AMLE standards.
6. Demonstrate knowledge and skills identified in CAEP Advanced Standard A.1.1.

## Program Requirements

### Licensure Requirements

Code	Title	Credit Hours
<b>Licensure Requirements</b>		
CI 57502	SCIENCE TEACHING IN EARLY AND MIDDLE GRADES <sup>1</sup>	3
or CI 57505	INTEGRATED SOCIAL STUDIES AND SCIENCE	

or MCED 50002	TEACHING SCIENCE IN MIDDLE CHILDHOOD II	
CI 57504	TEACHING READING AND WRITING IN MIDDLE GRADES	3
CI 67092	ADVANCED PRACTICUM AND INTERNSHIP IN CURRICULUM AND INSTRUCTION <sup>2</sup>	1
CI 67107	CURRICULUM AND ORGANIZATION IN THE MIDDLE GRADES	3
CI 67108	TEACHING AND LEARNING IN THE MIDDLE GRADES	3
CI 67396	INDIVIDUAL INVESTIGATION IN READING AND LANGUAGE ARTS	3
ETEC 57400	TRENDS IN EDUCATIONAL TECHNOLOGY	3
HDFS 64027	EARLY ADOLESCENCE	3
MCED 50005	EFFECTIVE USE OF PHONICS IN READING	3
MCED 50007	TEACHING READING WITH LITERATURE IN MIDDLE CHILDHOOD	3

Minimum Total Credit Hours: 28

- <sup>1</sup> Students will need permission from the middle childhood education program coordinator to register for the course.
- <sup>2</sup> Requirement to be determined by faculty advisor after review of previous teaching experience.

### Graduation Requirements

- Minimum 3.000 overall GPA
- Additional Coursework: An analysis of additional content-area coursework required at the post-undergraduate level will be completed before entering into the program, and a Plan of Study will be created based on transcript analysis and current licensure requirements by the Ohio Department of Education. A minimum C grade is required in each of these courses. This coursework would be in addition to requirements for the Middle Childhood Education non-degree program.

### Licensure Information

Prior to program completion, the candidate must demonstrate proficiencies in the following areas (including but not limited to): Data literacy and analysis, use of research and assessment data, leadership and collaboration, utilizing and supporting appropriate technology for the discipline, and application of professional dispositions, laws and policies, codes of ethics and professional standards appropriate to their field of specialization.

Candidates seeking Ohio licensure are required to pass the OAE Content Knowledge Assessment for each teaching field in order to apply for licensure. Students should consult their advisors for specific program requirements and refer to the Ohio Department of Education-Educator Preparation website for more information on assessments specific to licensure type.

Students who do not apply for license within 12 months of program completion may be subject to additional course requirements, based on Ohio licensure standards in force at the time of application.

## Middle Childhood Education–Social Studies (4-9) Additional Licensure Preparation - Non-Degree

College of Education Health and Human Services  
School of Teaching, Learning and Curriculum Studies

404 White Hall  
Kent Campus  
330-672-2580  
www.kent.edu/ehhs/tlcs

## Description

The Middle Childhood Education-Social Studies (4-9) Additional Licensure Preparation non-degree program provides coursework and field-based experiences for students who plan to apply for additional teacher licensure from the Ohio Department of Education. This non-degree program cannot be used for students seeking initial licensure.

Students also interested in a master's degree at Kent State University must be fully admitted into the master's program and complete the prescribed coursework for the master's degree, in addition to courses that are prescribed for additional licensure.

### Fully Offered At:

- Kent Campus

## Admission Requirements

Applicants will be assessed holistically, considering academic credentials; standardized test scores of reading, writing, and mathematics; academic or professional references; non-academic dimensions; and other specific program criteria.

- Bachelor's degree from an accredited college or university
- Minimum 3.000 overall undergraduate GPA on a 4.000 point scale
- Official transcript(s)
- Goal statement
- Questions in Anticipation of Licensure Form
- Evidence of valid four-year Resident Educator or five-year Professional State of Ohio teaching license
- Two letters of recommendation
- An interview will be conducted prior to full acceptance into the program.

For more information about graduate admission, please visit the Graduate Studies website.

## Program Learning Outcomes

Completers of this non-degree program will be able to:

1. Describe the Ohio Standards for the Teaching Profession.
2. Describe the Ohio Standards for Professional Development.
3. Describe the Ohio School Operating Standards.
4. Describe the Ohio Value Added Progress Dimension(s).
5. Demonstrate knowledge and skills consistent with the AMLE standards.
6. Demonstrate knowledge and skills identified in CAEP Advanced Standard A.1.1.

## Program Requirements

### Licensure Requirements

Code	Title	Credit Hours
<b>Licensure Requirements</b>		
CI 57503	TEACHING SOCIAL STUDIES IN EARLY AND MIDDLE GRADES <sup>1</sup>	3
or CI 57505	INTEGRATED SOCIAL STUDIES AND SCIENCE	
or MCED 50003	TEACHING SOCIAL STUDIES IN MIDDLE CHILDHOOD II	
CI 57504	TEACHING READING AND WRITING IN MIDDLE GRADES	3
CI 67092	ADVANCED PRACTICUM AND INTERNSHIP IN CURRICULUM AND INSTRUCTION <sup>2</sup>	1
CI 67107	CURRICULUM AND ORGANIZATION IN THE MIDDLE GRADES	3
CI 67108	TEACHING AND LEARNING IN THE MIDDLE GRADES	3
CI 67396	INDIVIDUAL INVESTIGATION IN READING AND LANGUAGE ARTS	3
ETEC 57400	TRENDS IN EDUCATIONAL TECHNOLOGY	3
HDFS 64027	EARLY ADOLESCENCE	3
MCED 50005	EFFECTIVE USE OF PHONICS IN READING	3
MCED 50007	TEACHING READING WITH LITERATURE IN MIDDLE CHILDHOOD	3
Minimum Total Credit Hours:		28

<sup>1</sup> Students will need permission from the middle childhood education program coordinator to register for the course.

<sup>2</sup> Requirement to be determined by faculty advisor after review of previous teaching experience.

### Graduation Requirements

- Minimum 3.000 overall GPA
- Additional Coursework: An analysis of additional content-area coursework required at the post-undergraduate level will be completed before entering into the program, and a Plan of Study will be created based on transcript analysis and current licensure requirements by the Ohio Department of Education. A minimum C grade is required in each of these courses. This coursework would be in addition to requirements for the Middle Childhood Education non-degree program.

### Licensure Information

Prior to program completion, the candidate must demonstrate proficiencies in the following areas (including but not limited to): Data literacy and analysis, use of research and assessment data, leadership and collaboration, utilizing and supporting appropriate technology for the discipline, and application of professional dispositions, laws and policies, codes of ethics and professional standards appropriate to their field of specialization.

Candidates seeking Ohio licensure are required to pass the OAE Content Knowledge Assessment for each teaching field in order to apply for licensure. Students should consult their advisors for specific program requirements and refer to the Ohio Department of Education-Educator Preparation website for more information on assessments specific to licensure type.

Students who do not apply for license within 12 months of program completion may be subject to additional course requirements, based on Ohio licensure standards in force at the time of application.

## Middle Childhood Generalist Science (4-6) Endorsement Preparation

### College of Education Health and Human Services

School of Teaching, Learning and Curriculum Studies

404 White Hall

Kent Campus

330-672-2580

[www.kent.edu/ehhs/tlcs](http://www.kent.edu/ehhs/tlcs)

### Description

The Middle Childhood Generalist Science (4-6) Endorsement Preparation non-degree program has been approved by the Ohio Department of Education. The generalist endorsement can be added to a Middle Childhood license if you graduated from the Kent State Middle Childhood education program after 2004. Endorsement candidates need to earn a C or better in all courses that apply to licensure. The MC Generalist License will allow teachers to teach grades 4-6 only (in the concentration areas that are listed on the license).

The non-degree program is not a master's degree program. Students interested in obtaining a teaching license and a degree from Kent State University must also be fully admitted into the degree program and complete the prescribed coursework on the prospectus, in addition to courses that are prescribed here for the endorsement.

### Fully Offered At:

- Kent Campus

### Admission Requirements

- Bachelor of Science in Education Middle Childhood Education degree earned at Kent State University after 2004 or current BSE MCED student at Kent State University
- Minimum 3.00 GPA on a 4.000 scale
- Official transcript(s)
- Valid Middle Childhood teaching license from the State of Ohio

## Program Requirements

### Endorsement Requirements

Code	Title	Credit Hours
<b>Endorsement Requirements</b>		
BSCI 10110	BIOLOGICAL DIVERSITY (KBS) (KLAB) (min C grade)	4
CHEM 10030	CHEMISTRY IN OUR WORLD (KBS) (min C grade)	3
EHHS 40092	PRACTICAL EXPERIENCE IN EDUCATION, HEALTH AND HUMAN SERVICES (ELR) (min C grade)	1
GEOL 11040	HOW THE EARTH WORKS (KBS) (min C grade)	3
GEOL 11041	HOW THE EARTH WORKS LABORATORY (KBS) (KLAB) (min C grade)	1

PHY 11030	SEVEN IDEAS THAT SHOOK THE UNIVERSE (KBS) (min C grade)	3
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Minimum Total Credit Hours: 15

### Graduation Requirements

- Minimum 3.000 overall GPA

### Licensure Information

Prior to program completion, the candidate must demonstrate proficiencies in the following areas (including but not limited to): Data literacy and analysis, use of research and assessment data, leadership and collaboration, utilizing and supporting appropriate technology for the discipline, and application of professional dispositions, laws and policies, codes of ethics and professional standards appropriate to their field of specialization.

Candidates seeking Ohio teaching licensure are required to pass specific requirements in order to apply for licensure from the Ohio Department of Education (ODE). Students should consult the Middle Childhood Education department for specific program requirements and refer to the Ohio Department of Education - Educator Preparation website for more information on assessments specific to licensure type.

## Middle Childhood Generalist Social Studies (4-6) Endorsement Preparation - Non-Degree

### College of Education Health and Human Services

School of Teaching, Learning and Curriculum Studies

404 White Hall

Kent Campus

330-672-2580

[www.kent.edu/ehhs/tlcs](http://www.kent.edu/ehhs/tlcs)

### Description

The Middle Childhood Generalist Social Studies (4-6) Endorsement Preparation non-degree endorsement program has been approved by the Ohio Department of Education. The generalist endorsement can be added to a Middle Childhood license if you graduated from the Kent State Middle Childhood education program after 2004. Endorsement candidates need to earn a C or better in all courses that apply to licensure. The MC Generalist License will allow teachers to teach grades 4-6 only (in the concentration areas that are listed on the license).

The non-degree program is not a master's degree program. Students interested in obtaining a teaching license and a degree from Kent State University must also be fully admitted into the degree program and complete the prescribed coursework on the prospectus, in addition to courses that are prescribed here for the endorsement.

### Fully Offered At:

- Kent Campus

### Admission Requirements

- Bachelor of Science in Education Middle Childhood Education degree earned at Kent State University after 2004 or current BSE MCED student at Kent State University
- Minimum 3.00 GPA on a 4.000 scale

- Official transcript(s)
- Valid Middle Childhood teaching license from the State of Ohio

## Program Requirements

### Endorsement Requirements

Code	Title	Credit Hours
<b>Endorsement Requirements</b>		
EHHS 40092	PRACTICAL EXPERIENCE IN EDUCATION, HEALTH AND HUMAN SERVICES (ELR) (min C grade)	1
GEOG 17063	WORLD GEOGRAPHY (DIVG) (KSS) (min C grade)	3
HIST 31061 or GEOG 37010	HISTORY OF OHIO (min C grade) GEOGRAPHY OF OHIO	3
Minimum Total Credit Hours:		7

### Graduation Requirements

- Minimum 3.000 overall GPA

### Licensure Information

Prior to program completion, the candidate must demonstrate proficiencies in the following areas (including but not limited to): Data literacy and analysis, use of research and assessment data, leadership and collaboration, utilizing and supporting appropriate technology for the discipline, and application of professional dispositions, laws and policies, codes of ethics and professional standards appropriate to their field of specialization.

Candidates seeking Ohio teaching licensure are required to pass specific requirements in order to apply for licensure from the Ohio Department of Education (ODE). Students should consult the Middle Childhood Education department for specific program requirements and refer to the Ohio Department of Education - Educator Preparation website for more information on assessments specific to licensure type.

## Online and Blended Learning - Graduate Certificate

### College of Education Health and Human Services

School of Teaching, Learning and Curriculum Studies  
404 White Hall  
Kent Campus  
330-672-2580  
[www.kent.edu/ehhs/tlcs](http://www.kent.edu/ehhs/tlcs)

## Description

The Online and Blended Learning graduate certificate provides the skills people need to teach effectively online, whether they are teaching an entire course online or integrating web-based activities into a traditionally taught class. Students examine recommendations from research, design their own online modules and develop effective strategies for delivering instruction online.

### Fully Offered At:

- Online

## Admission Requirements

- Bachelor's degree from an accredited college or university
- Official transcript(s)
- Goal statement of personal and professional objectives
- Two letters of recommendation

For more information about graduate admissions, please visit the Graduate Studies admission website. For more information on international admission, visit the Office of Global Education's admission website.

## Program Requirements

### Certificate Requirements

Code	Title	Credit Hours
<b>Certificate Requirements</b>		
ETEC 67442	DESIGNING ONLINE AND BLENDED COURSES	3
ETEC 67444	TEACHING ONLINE AND BLENDED COURSES	3
ETEC 67449	RESEARCH IN ONLINE AND BLENDED LEARNING	3
Minimum Total Credit Hours:		9

### Graduation Requirements

Minimum Certificate GPA	Minimum Overall GPA
3.000	

## Physical Education and Sport Performance - B.S.

### College of Education Health and Human Services

School of Teaching, Learning and Curriculum Studies  
404 White Hall  
Kent Campus  
330-672-2580  
[www.kent.edu/ehhs/tlcs](http://www.kent.edu/ehhs/tlcs)

## Description

The Bachelor of Science degree in Physical Education and Sport Performance prepares teachers who exemplify best practices in the PK-12 setting and professionals who promote high quality physical activity opportunities for individuals across the lifespan. The program places a strong emphasis on field experience, internships and professional development experiences.

The Physical Education and Sport Performance major comprises the following concentrations:

- The **Health and Physical Education** concentration is a five-year program that provides the curriculum necessary for students seeking Ohio teacher licensure in both health education and physical education. The program includes multiple field experiences in a variety of school districts, followed by a full semester of student teaching. Students teach in both subjects and are eligible to sit for the multi-age teacher licensing examinations. Students in combined

bachelor's/master's degree programs may apply graduate courses toward the B.S.E. degree.

- The **Physical Activity and Sport Performance** concentration is grounded in the understanding that the study of physical activity and sport is important in themselves and as biological and social concepts. The concentration provides students with the opportunity to design their educational experience by developing an individualized program of study. Students in this concentration are required to declare a minor, either in a related field or outside the field.
- The **Physical Education Teacher Licensure** concentration prepares students to seek Ohio teacher licensure in physical education. The program includes multiple field experiences in a variety of school districts, followed by a full semester of student teaching. Graduates are eligible to sit for the multi-age teacher licensing examinations.

### Fully Offered At:

- Kent Campus

## Accreditation

National Council for Accreditation of Teacher Education

## Admission Requirements

Admission to this major is selective. Admission to the college does not guarantee admission to a major and/or admission to professional coursework for a selective admission program. To be admitted directly into a teacher education program, it is required that new freshmen have a 2.750 high school GPA. Students who do not meet the GPA requirement at the time of admission for this major will be admitted to the EHHS General non-degree program until which time they have established a Kent State GPA of 2.750. They may then submit a change of program to declare this major.

Students seeking admission into the Health and Physical Education concentration or the Physical Education Teacher Licensure concentration of this program must meet all professional requirements for admission to advanced study and have a minimum overall 2.750 GPA in all previous undergraduate coursework. Students should contact the Vacca Office of Student Services, 304 White Hall, during the first year of study to inquire into the procedures associated with admission to advanced study. Students transferring from another university should meet with an academic advisor in the College of Education, Health and Human Services at least one semester prior to transferring.

**Current Kent State and Transfer Students:** Active Kent State students who wish to change their major must have attempted a minimum 12 credit hours at Kent State and meet all admission criteria listed above to be admitted. Students who have not attempted 12 credit hours at Kent State will be evaluated for admission based on their high school GPA for new students or transfer GPA for transfer students. Transfer students who have not attempted 12 credit hours of college-level coursework at Kent State and/or other institutions will be evaluated based on both their high school GPA and college GPA.

**English Language Proficiency Requirements for International Students:** All international students must provide proof of English language proficiency (unless they meet specific exceptions) by earning a minimum 525 TOEFL score (71 on the Internet-based version), minimum 75 MELAB score, minimum 6.0 IELTS score or minimum 48 PTE Academic score, or by completing the ELS level 112 Intensive Program. For more information

on international admission, visit the Office of Global Education's admission website.

## Program Learning Outcomes

Graduates of the Health and Physical Education and Physical Education Licensure concentrations will be able to:

1. Demonstrate an understanding of content and scientific and theoretical foundations for the delivery of an effective PK-12 PE and/or Health program.
2. Plan and implement developmentally appropriate and meaningful PE and/or health learning experiences aligned with local, state and/or national standards and grade-level outcomes.
3. Use effective resources, accommodations, and technology that support the diverse needs of all students in planning and teaching.
4. Use effective communication, feedback, and instructional and managerial skills to enhance student learning.
5. Select and implement appropriate assessments and reflection to monitor students' progress and guide decision making related to instruction and learning.
6. Demonstrate dispositions essential to becoming effective professionals.

Graduates of the Physical Activity and Sport Performance concentration will be able to:

1. Demonstrate understanding and value of human diversity.
2. Apply their broad spectrum of knowledge of human movement in their capstone experience by being able to:
  - a. Describe and apply biophysical (anatomical, physiological and biomechanical) and social-psychological concepts to skillful movement, physical activity and fitness, depending upon their area of focus.
  - b. Identify individual and group motives and opportunities and barriers to involvement in different types of human movement.
  - c. Understand the historical significance of past events and how these events have shaped the present development of sport and physical education.

## University Requirements

All students in a bachelor's degree program at Kent State University must complete the following university requirements for graduation.

**NOTE:** University requirements may be fulfilled in this program by specific course requirements. Please see Program Requirements for details.

Destination Kent State: First Year Experience	1
Course is not required for students with 25 transfer credits, excluding College Credit Plus, or age 21+ at time of admission.	
Diversity Domestic/Global (DIVD/DIVG)	2 courses
Students must successfully complete one domestic and one global course, of which one must be from the Kent Core.	
Experiential Learning Requirement (ELR)	varies
Students must successfully complete one course or approved experience.	
Kent Core (see table below)	36-37
Writing-Intensive Course (WIC)	1 course
Students must earn a minimum C grade in the course.	
Upper-Division Requirement	39 (or 42)



Students must successfully complete 39 upper-division (numbered 30000 to 49999) credit hours to graduate. Students in a B.A. and/or B.S. degree in the College of Arts and Sciences must complete 42 upper-division credit hours.

Total Credit Hour Requirement	120
Some bachelor's degrees require students to complete more than 120 credit hours.	

## Kent Core Requirements

Kent Core Composition (KCOMP)	6
Kent Core Mathematics and Critical Reasoning (KMCR)	3
Kent Core Humanities and Fine Arts (KHUM/KFA) (min one course each)	9
Kent Core Social Sciences (KSS) (must be from two disciplines)	6
Kent Core Basic Sciences (KBS/KLAB) (must include one laboratory)	6-7
Kent Core Additional (KADL)	6
<b>Total Credit Hours:</b>	<b>36-37</b>

## Program Requirements

### Major Requirements

Code	Title	Credit Hours
<b>Major Requirements (courses count in major GPA) <sup>1</sup></b>		
ATTR/EXSC 25057	HUMAN ANATOMY AND PHYSIOLOGY I (KBS) (KLAB) <sup>2</sup>	4
PESP 15010	INTRODUCTION TO PHYSICAL EDUCATION, FITNESS AND SPORT	3
PESP 25033	LIFESPAN MOTOR DEVELOPMENT	3
PESP 25056	ASSESSMENT OF LEARNING IN PHYSICAL EDUCATION AND SPORT	3
PESP 35020	FITNESS EDUCATION	3
PESP 35084	MOTOR SKILL ANALYSIS	3
<b>Additional Requirements (courses do not count in major GPA)</b>		
PSYC 11762	GENERAL PSYCHOLOGY (DIVD) (KSS) <sup>3</sup>	3
UC 10097	DESTINATION KENT STATE: FIRST YEAR EXPERIENCE	1
Kent Core Composition <sup>3</sup>		6
Kent Core Mathematics and Critical Reasoning		3-5
Kent Core Humanities and Fine Arts (minimum one course from each)		9
Kent Core Social Sciences		3
<b>Concentrations</b>		
Choose from the following:		76-113
Health and Physical Education		
Physical Education Licensure		
Physical Activity and Sport Performance		
Minimum Total Credit Hours:		120-157

<sup>1</sup> Minimum C grade is required in all major coursework for the Health and Physical Education concentration and the Physical Education Licensure concentration.

<sup>2</sup> Students who have successfully completed BSCI 11010 with a minimum C grade may use that course in place of ATTR 25057/EXSC 25057.

<sup>3</sup> Minimum C grade is required for the Health and Physical Education and Physical Education Licensure concentrations.

## Health and Physical Education Concentration Requirements

Code	Title	Credit Hours
<b>Concentration Requirements (courses count in major GPA)</b>		
EHHS 49592	STUDENT TEACHING IN HEALTH AND PHYSICAL EDUCATION (ELR) <sup>1</sup>	10
HED 11570	PERSONAL HEALTH (min C grade)	3
HED 21030	INTRODUCTION TO HEALTH EDUCATION (min C grade)	3
HED 21050	HEALTH EDUCATION THEORIES (min C grade)	3
HED 30000	TEACHING HEALTH TO YOUNG LEARNERS (min C grade) <sup>1</sup>	3
HED 32530	DRUG USE AND MISUSE (min C grade)	3
HED 32542	METHODS AND APPLICATIONS OF HEALTH EDUCATION (WIC) (min C grade) <sup>1</sup>	5
HED 32544	HUMAN SEXUALITY (min C grade)	3
HED 34050	PROGRAM PLANNING AND EVALUATION IN HEALTH EDUCATION (min C grade)	3
HED 42041	HEALTH COACHING (min C grade)	3
HED 44543	ADMINISTRATION OF SCHOOL HEALTH PROGRAMS (min C grade)	3
HED 44544	SEXUALITY EDUCATION PROGRAMS (min C grade)	3
HED 44550	DRUG ABUSE AND VIOLENCE EDUCATION PROGRAMS (min C grade)	3
HED 49525	INQUIRY SEMINAR INTO PROFESSIONAL PRACTICE (min C grade)	3
PESP 15011	DEVELOPMENT AND ANALYSIS OF INVASION GAMES (min C grade)	3
PESP 15015	DEVELOPMENT AND ANALYSIS OF NET GAMES (min C grade)	3
PESP 15016	DEVELOPMENT AND ANALYSIS OF TARGET AND FIELD GAMES (min C grade)	3
PESP 15020	FUNDAMENTAL MOVEMENT, GYMNASTICS AND DANCE (min C grade)	3
PESP 25025	TEACHING IN PHYSICAL EDUCATION (min C grade) <sup>1</sup>	3
PESP 25026	OVERVIEW OF OUTDOOR PURSUITS AND ADVENTURE EDUCATION (min C grade)	3
PESP 45037	ADAPTED PHYSICAL EDUCATION (min C grade) <sup>1</sup>	3
PESP 45051	ELEMENTARY SCHOOL PHYSICAL EDUCATION METHODS (min C grade) <sup>1</sup>	3
PESP 45053	ELEMENTARY SCHOOL PHYSICAL EDUCATION CONTENT (min C grade) <sup>1</sup>	3
PESP 45058	SECONDARY SCHOOL PHYSICAL EDUCATION METHODS (min C grade) <sup>1</sup>	3
PESP 45059	SECONDARY SCHOOL PHYSICAL EDUCATION CONTENT (min C grade) <sup>1</sup>	3
PESP 49525	INQUIRY INTO PROFESSIONAL PRACTICE IN PHYSICAL EDUCATION (min C grade)	3
SPAD 35065	HISTORY AND PHILOSOPHY OF SPORT AND PHYSICAL ACTIVITY (WIC) (min C grade)	3
Physical Activity, Wellness and Sport (PWS) Electives, choose from the following (min C grade):		2
PWS 10020	DEVELOPMENT AND CONDITIONING	
PWS 10036	FITNESS WALKING	
PWS 10306	JOGGING	
PWS 10403	BEGINNING BALLROOM DANCE	

PWS 10413	LATIN SOCIAL DANCE
PWS 11426	VARSITY SPORT TRAINING AND CONDITIONING
PWS 11604	BEGINNING KARATE
PWS 11633	JU JITSU
PWS 11634	SELF-DEFENSE
PWS 11663	BEGINNING YOGA
PWS 11664	PILATES
PWS 11665	ZUMBA
PWS 11666	BEGINNING SPINNING
PWS 11667	BOOT CAMP I
PWS 11673	INTERMEDIATE YOGA
PWS 11674	INTERMEDIATE PILATES
PWS 11675	ZUMBA TONING
PWS 12324	WEIGHT TRAINING
PWS 12325	WOMEN'S WEIGHT TRAINING
PWS 12424	EXERCISE AND WEIGHT CONTROL
PWS 12425	NAUTILUS EXERCISES
PWS 13003	DANCE EXERCISE
PWS 13010	JUDO-JUJITSU
PWS 13016	CYCLING
PWS 13040	CARDIO KICKBOXING

**Additional Requirements (courses do not count in major GPA)**

CI 47330	READING AND WRITING IN ADOLESCENCE/ ADULTHOOD (min C grade)	3
COMM 15000	INTRODUCTION TO HUMAN COMMUNICATION (KADL) (min C grade)	3
CULT 29535	EDUCATION IN A DEMOCRATIC SOCIETY (min C grade)	3
EPSY 29525	EDUCATIONAL PSYCHOLOGY (min C grade)	3
NUTR 23511	SCIENCE OF HUMAN NUTRITION (KBS) (min C grade)	3
SPED 23000	INTRODUCTION TO EXCEPTIONALITIES (DIVD) (min C grade)	3
Kent Core Additional		3
Minimum Total Credit Hours:		113

<sup>1</sup> Teacher candidates are only permitted to repeat a field experience course once. Please see Repeating Field Experience Courses in Teacher Education Programs policy for details.

### Physical Activity and Sport Performance Concentration Requirements

Code	Title	Credit Hours
<b>Concentration Requirements (courses count in major GPA)</b>		
PESP 15020	FUNDAMENTAL MOVEMENT, GYMNASTICS AND DANCE	3
PESP 45015	PSYCHOLOGY OF COACHING	3
PESP 45037	ADAPTED PHYSICAL EDUCATION <sup>1</sup>	3
PESP 45092	INTERNSHIP IN PHYSICAL EDUCATION (ELR)	3
or PESP 45096	INDIVIDUAL INVESTIGATION IN PHYSICAL EDUCATION	
SPAD 25000	SPORT IN SOCIETY (DIVD)	3
SPAD 35065	HISTORY AND PHILOSOPHY OF SPORT AND PHYSICAL ACTIVITY (WIC) <sup>2</sup>	3
Physical Activity, Wellness and Sport (PWS) or Professional Movement Elective		1
Development and Analysis Electives, choose from the following:		6

PESP 15011	DEVELOPMENT AND ANALYSIS OF INVASION GAMES
PESP 15015	DEVELOPMENT AND ANALYSIS OF NET GAMES
PESP 15016	DEVELOPMENT AND ANALYSIS OF TARGET AND FIELD GAMES

**Additional Requirements (courses do not count in major GPA)**

Kent Core Basic Sciences	3
Kent Core Additional	6
Declared Minor and General Electives (total credit hours depends on earning 120 credit hours, including 39 upper division credit hours)	42
Minimum Total Credit Hours:	76

- Teacher candidates are only permitted to repeat a field experience course once. Please see Repeating Field Experience Courses in Teacher Education Programs policy for details.
- A minimum C grade must be earned to fulfill writing-intensive requirement.

### Physical Education Licensure Concentration Requirements

Code	Title	Credit Hours
<b>Concentration Requirements (courses count in major GPA)</b>		
HED 42575	HEALTH AND LEARNING: STRATEGIES FOR STUDENTS AND TEACHERS	3
PESP 15011	DEVELOPMENT AND ANALYSIS OF INVASION GAMES (min C grade)	3
PESP 15015	DEVELOPMENT AND ANALYSIS OF NET GAMES (min C grade)	3
PESP 15016	DEVELOPMENT AND ANALYSIS OF TARGET AND FIELD GAMES (min C grade)	3
PESP 15020	FUNDAMENTAL MOVEMENT, GYMNASTICS AND DANCE (min C grade)	3
PESP 25025	TEACHING IN PHYSICAL EDUCATION (min C grade) <sup>1</sup>	3
PESP 25026	OVERVIEW OF OUTDOOR PURSUITS AND ADVENTURE EDUCATION (min C grade)	3
PESP 45037	ADAPTED PHYSICAL EDUCATION (min C grade) <sub>1</sub>	3
PESP 45051	ELEMENTARY SCHOOL PHYSICAL EDUCATION METHODS (min C grade) <sup>1</sup>	3
PESP 45053	ELEMENTARY SCHOOL PHYSICAL EDUCATION CONTENT (min C grade) <sup>1</sup>	3
PESP 45058	SECONDARY SCHOOL PHYSICAL EDUCATION METHODS (min C grade) <sup>1</sup>	3
PESP 45059	SECONDARY SCHOOL PHYSICAL EDUCATION CONTENT (min C grade) <sup>1</sup>	3
PESP 49525	INQUIRY INTO PROFESSIONAL PRACTICE IN PHYSICAL EDUCATION (min C grade)	3
PESP 49592	STUDENT TEACHING IN PHYSICAL EDUCATION (ELR) <sup>1</sup>	12
SPAD 35065	HISTORY AND PHILOSOPHY OF SPORT AND PHYSICAL ACTIVITY (WIC) (min C grade)	3
Physical Activity, Wellness and Sport (PWS) Electives, choose from the following (min C grade):		1
PWS 10020	DEVELOPMENT AND CONDITIONING	
PWS 10036	FITNESS WALKING	
PWS 10306	JOGGING	
PWS 10403	BEGINNING BALLROOM DANCE	
PWS 10413	LATIN SOCIAL DANCE	

PWS 11426	VARSITY SPORT TRAINING AND CONDITIONING	
PWS 11604	BEGINNING KARATE	
PWS 11633	JU JITSU	
PWS 11634	SELF-DEFENSE	
PWS 11663	BEGINNING YOGA	
PWS 11664	PILATES	
PWS 11665	ZUMBA	
PWS 11666	BEGINNING SPINNING	
PWS 11667	BOOT CAMP I	
PWS 11673	INTERMEDIATE YOGA	
PWS 11674	INTERMEDIATE PILATES	
PWS 11675	ZUMBA TONING	
PWS 12324	WEIGHT TRAINING	
PWS 12325	WOMEN'S WEIGHT TRAINING	
PWS 13003	DANCE EXERCISE	
PWS 13010	JUDO-JUJITSU	
PWS 13016	CYCLING	
PWS 13040	CARDIO KICKBOXING	

**Additional Requirements (courses do not count in major GPA)**

CI 47330	READING AND WRITING IN ADOLESCENCE/ ADULTHOOD (min C grade)	3
CULT 29535	EDUCATION IN A DEMOCRATIC SOCIETY (min C grade)	3
EPSY 29525	EDUCATIONAL PSYCHOLOGY (min C grade)	3
SPED 23000	INTRODUCTION TO EXCEPTIONALITIES (DIVD) (min C grade)	3
Kent Core Basic Sciences		3
Kent Core Additional		6
Minimum Total Credit Hours:		76

<sup>1</sup> Teacher candidates are only permitted to repeat a field experience course once. Please see Repeating Field Experience Courses in Teacher Education Programs policy for details.

## Roadmaps

- Health and Physical Education Concentration
- Physical Education Licensure Concentration
- Physical Activity and Sport Performance Concentration

## Health and Physical Education Concentration

This roadmap is a recommended semester-by-semester plan of study for this major. However, courses designated as critical (!) must be completed in the semester listed to ensure a timely graduation.

Semester One		Credits
!	HED 11570 PERSONAL HEALTH	3
!	PESP 15010 INTRODUCTION TO PHYSICAL EDUCATION, FITNESS AND SPORT	3
!	PESP 15020 FUNDAMENTAL MOVEMENT, GYMNASTICS AND DANCE	3
	UC 10097 DESTINATION KENT STATE: FIRST YEAR EXPERIENCE	1
	Kent Core Requirement	3
	Kent Core Requirement	3
Credit Hours		16
Semester Two		
Requirement: Successful completion of Praxis Core Reading, Writing and Mathematics		
	COMM 15000 INTRODUCTION TO HUMAN COMMUNICATION (KADL)	3
!	CULT 29535 EDUCATION IN A DEMOCRATIC SOCIETY	3
!	PESP 15015 DEVELOPMENT AND ANALYSIS OF NET GAMES	3
!	PESP 25026 OVERVIEW OF OUTDOOR PURSUITS AND ADVENTURE EDUCATION	3
!	Physical Activity, Wellness and Sport (PWS) Elective	1
	Kent Core Requirement	3
Credit Hours		16
Semester Three		
	HED 21030 INTRODUCTION TO HEALTH EDUCATION	3
!	PESP 15011 DEVELOPMENT AND ANALYSIS OF INVASION GAMES	3
!	PESP 15016 DEVELOPMENT AND ANALYSIS OF TARGET AND FIELD GAMES	3
	Kent Core Requirement	3
	Kent Core Requirement	3
Credit Hours		15
Semester Four		
!	EPSY 29525 EDUCATIONAL PSYCHOLOGY	3
	HED 30000 TEACHING HEALTH TO YOUNG LEARNERS	3
	PESP 25056 ASSESSMENT OF LEARNING IN PHYSICAL EDUCATION AND SPORT	3
	PSYC 11762 GENERAL PSYCHOLOGY (DIVD) (KSS)	3
	Physical Activity, Wellness and Sport (PWS) Electives	1
	Kent Core Requirement	3
Credit Hours		16
Semester Five		
Requirement: minimum 2.750 overall GPA by end of term; minimum 2.750 major GPA		
!	ATTR 25057 HUMAN ANATOMY AND PHYSIOLOGY I (KBS) or EXSC 25057 or HUMAN ANATOMY AND PHYSIOLOGY I (KBS) (KLAB)	4
	HED 21050 HEALTH EDUCATION THEORIES	3
	PESP 25033 LIFESPAN MOTOR DEVELOPMENT	3
	SPED 23000 INTRODUCTION TO EXCEPTIONALITIES (DIVD)	3
	Kent Core Requirement	3
	Kent Core Requirement	3
Credit Hours		19

### Semester Six

Requirement: apply online for Advanced Study before the second Friday of the term; 2.750 minimum overall GPA; minimum 2.750 major GPA

	HED 32530 DRUG USE AND MISUSE	3
	HED 32544 HUMAN SEXUALITY	3
	HED 44543 ADMINISTRATION OF SCHOOL HEALTH PROGRAMS	3
!	PESP 25025 TEACHING IN PHYSICAL EDUCATION	3
	PESP 35084 MOTOR SKILL ANALYSIS	3
Credit Hours		15

### Semester Seven

Requirement: apply for student teaching; minimum 2.750 major GPA; minimum 2.750 overall GPA

!	HED 32542 METHODS AND APPLICATIONS OF HEALTH EDUCATION (WIC)	5
	HED 42041 HEALTH COACHING	3
	PESP 35020 FITNESS EDUCATION	3
	SPAD 35065 HISTORY AND PHILOSOPHY OF SPORT AND PHYSICAL ACTIVITY (WIC)	3
Credit Hours		14

### Semester Eight

Requirement: minimum 2.750 overall GPA; minimum 2.750 major GPA

	HED 34050 PROGRAM PLANNING AND EVALUATION IN HEALTH EDUCATION	3
	HED 44544 SEXUALITY EDUCATION PROGRAMS	3
	HED 44550 DRUG ABUSE AND VIOLENCE EDUCATION PROGRAMS	3
!	PESP 45058 SECONDARY SCHOOL PHYSICAL EDUCATION METHODS	3
!	PESP 45059 SECONDARY SCHOOL PHYSICAL EDUCATION CONTENT	3
Credit Hours		15

### Semester Nine

Requirement: minimum 2.750 overall GPA; minimum 2.750 major GPA

	CI 47330 READING AND WRITING IN ADOLESCENCE/ADULTHOOD	3
	NUTR 23511 SCIENCE OF HUMAN NUTRITION (KBS)	3
	PESP 45037 ADAPTED PHYSICAL EDUCATION	3
!	PESP 45051 ELEMENTARY SCHOOL PHYSICAL EDUCATION METHODS	3
!	PESP 45053 ELEMENTARY SCHOOL PHYSICAL EDUCATION CONTENT	3
Credit Hours		15

### Semester Ten

Requirement: minimum 2.750 overall GPA; minimum 2.750 major GPA

	EHHS 49592 STUDENT TEACHING IN HEALTH AND PHYSICAL EDUCATION (ELR)	10
!	HED 49525 INQUIRY SEMINAR INTO PROFESSIONAL PRACTICE	3
!	PESP 49525 INQUIRY INTO PROFESSIONAL PRACTICE IN PHYSICAL EDUCATION	3
Credit Hours		16
Minimum Total Credit Hours:		157

## Physical Activity and Sport Performance Concentration

This roadmap is a recommended semester-by-semester plan of study for this major. However, courses designated as critical (!) must be completed in the semester listed to ensure a timely graduation.

<b>Semester One</b>		<b>Credits</b>
PESP 15010	INTRODUCTION TO PHYSICAL EDUCATION, FITNESS AND SPORT	3
PESP 15020	FUNDAMENTAL MOVEMENT, GYMNASTICS AND DANCE	3
UC 10097	DESTINATION KENT STATE: FIRST YEAR EXPERIENCE	1
Kent Core Requirement		3
Kent Core Requirement		3
Kent Core Requirement		3
Credit Hours		16
<b>Semester Two</b>		
PSYC 11762	GENERAL PSYCHOLOGY (DIVD) (KSS)	3
Development and Analysis Elective		3
Kent Core Requirement		3
Kent Core Requirement		3
Kent Core Requirement		3
Credit Hours		15
<b>Semester Three</b>		
! ATTR 25057 or EXSC 25057	HUMAN ANATOMY AND PHYSIOLOGY I (KBS) (KLAB) or HUMAN ANATOMY AND PHYSIOLOGY I (KBS) (KLAB)	4
PESP 25033	LIFESPAN MOTOR DEVELOPMENT	3
Kent Core Requirement		3
Kent Core Requirement		3
Approved Minor and General Electives		3
Credit Hours		16
<b>Semester Four</b>		
! PESP 25056	ASSESSMENT OF LEARNING IN PHYSICAL EDUCATION AND SPORT	3
SPAD 25000	SPORT IN SOCIETY (DIVD)	3
Approved Minor and General Electives		9
Credit Hours		15
<b>Semester Five</b>		
Development and Analysis Elective		3
Physical Activity, Wellness and Sport (PWS) or Professional Movement Elective		1
Kent Core Requirement		3
Kent Core Requirement		3
Approved Minor and General Electives		5
Credit Hours		15
<b>Semester Six</b>		
PESP 35084	MOTOR SKILL ANALYSIS	3
PESP 45015	PSYCHOLOGY OF COACHING	3
Approved Minor and General Electives		9
Credit Hours		15
<b>Semester Seven</b>		
Note: apply for graduation		
PESP 35020	FITNESS EDUCATION	3
PESP 45037	ADAPTED PHYSICAL EDUCATION	3
SPAD 35065	HISTORY AND PHILOSOPHY OF SPORT AND PHYSICAL ACTIVITY (WIC)	3

Approved Minor and General Electives		6
Credit Hours		15
<b>Semester Eight</b>		
! PESP 45092 or PESP 45096	INTERNSHIP IN PHYSICAL EDUCATION (ELR) or INDIVIDUAL INVESTIGATION IN PHYSICAL EDUCATION	3
Approved Minor and General Electives		10
Credit Hours		13
Minimum Total Credit Hours:		120



## Physical Education Licensure Concentration

This roadmap is a recommended semester-by-semester plan of study for this major. However, courses designated as critical (!) must be completed in the semester listed to ensure a timely graduation.

Semester One		Credits
!	PESP 15010 INTRODUCTION TO PHYSICAL EDUCATION, FITNESS AND SPORT	3
!	PESP 15020 FUNDAMENTAL MOVEMENT, GYMNASTICS AND DANCE	3
	UC 10097 DESTINATION KENT STATE: FIRST YEAR EXPERIENCE	1
	Kent Core Requirement	3
	Kent Core Requirement	3
	Kent Core Requirement	3
Credit Hours		16
Semester Two		
Requirement: Successful completion of Praxis Core Reading, Writing and Mathematics		
!	CULT 29535 EDUCATION IN A DEMOCRATIC SOCIETY	3
	PESP 15015 DEVELOPMENT AND ANALYSIS OF NET GAMES	3
	PESP 25026 OVERVIEW OF OUTDOOR PURSUITS AND ADVENTURE EDUCATION	3
	PSYC 11762 GENERAL PSYCHOLOGY (DIVD) (KSS)	3
	Kent Core Requirement	3
Credit Hours		15
Semester Three		
Requirement: minimum 2.750 overall GPA by end of term; minimum 2.750 major GPA		
!	ATTR 25057 HUMAN ANATOMY AND PHYSIOLOGY I (KBS) or EXSC 25057 or HUMAN ANATOMY AND PHYSIOLOGY I (KBS) (KLAB)	4
	EPSY 29525 EDUCATIONAL PSYCHOLOGY	3
!	PESP 15011 DEVELOPMENT AND ANALYSIS OF INVASION GAMES	3
	PESP 15016 DEVELOPMENT AND ANALYSIS OF TARGET AND FIELD GAMES	3
	Kent Core Requirement	3
Credit Hours		16
Semester Four		
Requirement: apply online for Advanced Study before the second Friday of the term; 2.750 minimum overall GPA; minimum 2.750 major		
	PESP 25025 TEACHING IN PHYSICAL EDUCATION	3
	PESP 25033 LIFESPAN MOTOR DEVELOPMENT	3
	PESP 25056 ASSESSMENT OF LEARNING IN PHYSICAL EDUCATION AND SPORT	3
	Physical Activity, Wellness and Sport (PWS) Electives	1
	Kent Core Requirement	3
Credit Hours		13
Semester Five		
Requirement: minimum 2.750 overall GPA; minimum 2.750 major GPA		
	CI 47330 READING AND WRITING IN ADOLESCENCE/ADULTHOOD	3
	HED 42575 HEALTH AND LEARNING: STRATEGIES FOR STUDENTS AND TEACHERS	3
	PESP 35020 FITNESS EDUCATION	3
	SPED 23000 INTRODUCTION TO EXCEPTIONALITIES (DIVD)	3

Kent Core Requirement		3
Credit Hours		15
Semester Six		
Requirement: minimum 2.750 overall GPA; minimum 2.750 major GPA		
	PESP 35084 MOTOR SKILL ANALYSIS	3
!	PESP 45058 SECONDARY SCHOOL PHYSICAL EDUCATION METHODS	3
!	PESP 45059 SECONDARY SCHOOL PHYSICAL EDUCATION CONTENT	3
	SPAD 35065 HISTORY AND PHILOSOPHY OF SPORT AND PHYSICAL ACTIVITY (WIC)	3
	Kent Core Requirement	3
Credit Hours		15
Semester Seven		
Requirement: apply for graduation; minimum 2.750 overall GPA; minimum 2.750 major GPA		
	PESP 45037 ADAPTED PHYSICAL EDUCATION	3
!	PESP 45051 ELEMENTARY SCHOOL PHYSICAL EDUCATION METHODS	3
!	PESP 45053 ELEMENTARY SCHOOL PHYSICAL EDUCATION CONTENT	3
	Kent Core Requirement	3
	Kent Core Requirement	3
Credit Hours		15
Semester Eight		
Requirement: minimum 2.750 overall GPA; minimum 2.750 major GPA		
!	PESP 49525 INQUIRY INTO PROFESSIONAL PRACTICE IN PHYSICAL EDUCATION	3
	PESP 49592 STUDENT TEACHING IN PHYSICAL EDUCATION (ELR)	12
Credit Hours		15
Minimum Total Credit Hours:		120

## Physical Science - B.S.E.

**College of Education Health and Human Services**  
 School of Teaching, Learning and Curriculum Studies  
 404 White Hall  
 Kent Campus  
 330-672-2580  
[www.kent.edu/ehhs/tlcs](http://www.kent.edu/ehhs/tlcs)

## Description

The Bachelor of Science in Education degree in Physical Science prepares students for teacher licensure in physics and chemistry, grades seven to 12. Students take a broad range of science-content courses in biology and geology and specialize in physics and chemistry content. Students in the Physical Science major complete most of their content coursework during their first three years, and then begin their methods coursework during the spring of their third year. During the final year of the program, students complete remaining content courses, science teaching methods courses and a year-long placement in a local school district, which concludes with 13 weeks of student teaching in the spring. Physical Science students are encouraged to meet with their faculty advisor early in their program because many courses must be sequenced carefully.

## Fully Offered At:

- Kent Campus

## Accreditation

National Council for Accreditation of Teacher Education

## Admission Requirements

Admission to this major is selective. Admission to the college does not guarantee admission to a major and/or admission to professional coursework for a selective admission program. To be admitted directly into a teacher education program, it is required that new freshmen have a 2.750 high school GPA. Students who do not meet the GPA requirement at the time of admission for this major will be admitted to the EHHS General non-degree program until which time they have established a Kent State GPA of 2.750. They may then submit a change of program to declare this major.

**Current Kent State and Transfer Students:** Active Kent State students who wish to change their major must have attempted a minimum 12 credit hours at Kent State and meet all admission criteria listed above to be admitted. Students who have not attempted 12 credit hours at Kent State will be evaluated for admission based on their high school GPA for new students or transfer GPA for transfer students. Transfer students who have not attempted 12 credit hours of college-level coursework at Kent State and/or other institutions will be evaluated based on both their high school GPA and college GPA.

**English Language Proficiency Requirements for International Students:** All international students must provide proof of English language proficiency (unless they meet specific exceptions) by earning a minimum 525 TOEFL score (71 on the Internet-based version), minimum 75 MELAB score, minimum 6.0 IELTS score or minimum 48 PTE Academic score, or by completing the ELS level 112 Intensive Program. For more information on international admission, visit the Office of Global Education's admission website.

## Program Learning Outcomes

Graduates of this program will be able to:

1. Plan multiple lessons using a variety of inquiry approaches that demonstrate their knowledge and understanding of how to engage all students in learning science.
2. Plan a learning environment and learning experiences for all students that demonstrate chemical safety, safety procedures, and the ethical treatment of living organisms within their licensure area.
3. Plan fair and equitable assessment strategies to analyze student learning and to evaluate if the science learning goals are met.

## University Requirements

All students in a bachelor's degree program at Kent State University must complete the following university requirements for graduation.

**NOTE:** University requirements may be fulfilled in this program by specific course requirements. Please see Program Requirements for details.

Destination Kent State: First Year Experience	1
Course is not required for students with 25 transfer credits, excluding College Credit Plus, or age 21+ at time of admission.	
Diversity Domestic/Global (DIVD/DIVG)	2 courses
Students must successfully complete one domestic and one global course, of which one must be from the Kent Core.	
Experiential Learning Requirement (ELR)	varies
Students must successfully complete one course or approved experience.	
Kent Core (see table below)	36-37
Writing-Intensive Course (WIC)	1 course
Students must earn a minimum C grade in the course.	
Upper-Division Requirement	39 (or 42)
Students must successfully complete 39 upper-division (numbered 30000 to 49999) credit hours to graduate. Students in a B.A. and/or B.S. degree in the College of Arts and Sciences must complete 42 upper-division credit hours.	
Total Credit Hour Requirement	120
Some bachelor's degrees require students to complete more than 120 credit hours.	

## Kent Core Requirements

Kent Core Composition (KCMP)	6
Kent Core Mathematics and Critical Reasoning (KMCR)	3
Kent Core Humanities and Fine Arts (KHUM/KFA) (min one course each)	9
Kent Core Social Sciences (KSS) (must be from two disciplines)	6
Kent Core Basic Sciences (KBS/KLAB) (must include one laboratory)	6-7
Kent Core Additional (KADL)	6
<b>Total Credit Hours:</b>	<b>36-37</b>

## Program Requirements

### Major Requirements

Code	Title	Credit Hours
<b>Major Requirements (courses count in major GPA; min C grade required in all courses)</b>		
BSCI 10120	BIOLOGICAL FOUNDATIONS (KBS) (KLAB)	4
CHEM 10060	GENERAL CHEMISTRY I (KBS)	4
CHEM 10061	GENERAL CHEMISTRY II (KBS)	4
CHEM 10062	GENERAL CHEMISTRY I LABORATORY (KBS) (KLAB)	1
CHEM 10063	GENERAL CHEMISTRY II LABORATORY (KBS) (KLAB)	1
CHEM 20481	BASIC ORGANIC CHEMISTRY I	4
CHEM 30105	ANALYTICAL CHEMISTRY I	3
CHEM 30284	INTRODUCTORY BIOLOGICAL CHEMISTRY	4
CHEM 30301	INORGANIC CHEMISTRY I	2
CHEM 40567	PHYSICAL CHEMISTRY FOR LIFE SCIENCES	4
PHY 21430	FRONTIERS IN ASTRONOMY (KBS)	3
PHY 23101	GENERAL UNIVERSITY PHYSICS I (KBS) (KLAB)	5
PHY 23102	GENERAL UNIVERSITY PHYSICS II (KBS) (KLAB)	5
PHY 30020	INTERMEDIATE PHYSICS LABORATORY (WIC)	2
PHY 36001	INTRODUCTORY MODERN PHYSICS	3
PHY 32511	ELECTRONICS	3-4

or PHY 36002	APPLICATIONS OF MODERN PHYSICS	
<b>Additional Requirements (courses do not count in major GPA)</b>		
ADED 20000	TOPICS IN SOCIAL JUSTICE IN TEACHING AND LEARNING <sup>1</sup>	3
ADED 32142	PRINCIPLES OF TEACHING ADOLESCENTS (WIC) (min C grade) <sup>1</sup>	3
ADED 32277	TEACHING SCIENCE IN SECONDARY SCHOOLS (min C grade) <sup>1</sup>	3
ADED 42277	TOPICS IN SECONDARY SCHOOL SCIENCE TEACHING (min C grade)	3
ADED 42292	FIELD WORK PRACTICUM (ELR) (min C grade) <sup>1</sup>	3
ADED 42392	SECONDARY STUDENT TEACHING (ELR) <sup>1</sup>	9
ADED 49525	INQUIRY INTO PROFESSIONAL PRACTICE (min C grade)	3
CI 47330	READING AND WRITING IN ADOLESCENCE/ADULTHOOD (min C grade)	3
CULT 29535	EDUCATION IN A DEMOCRATIC SOCIETY (min C grade)	3
EPSY 29525	EDUCATIONAL PSYCHOLOGY (min C grade)	3
ETEC 39525	EDUCATIONAL TECHNOLOGY (min C grade)	3
MATH 11010	ALGEBRA FOR CALCULUS (KMCR)	3
MATH 11022	TRIGONOMETRY (KMCR)	3
MATH 12002	ANALYTIC GEOMETRY AND CALCULUS I (KMCR)	5
MATH 12003	ANALYTIC GEOMETRY AND CALCULUS II (min C grade)	5
PHIL 11001	INTRODUCTION TO PHILOSOPHY (DIVG) (KHUM)	3
PSYC 11762	GENERAL PSYCHOLOGY (DIVD) (KSS)	3
SOC 12050	INTRODUCTION TO SOCIOLOGY (DIVD) (KSS)	3
SPED 23000	INTRODUCTION TO EXCEPTIONALITIES (DIVD) (min C grade)	3
UC 10097	DESTINATION KENT STATE: FIRST YEAR EXPERIENCE	1
Kent Core Composition (min C grade)		6
Kent Core Humanities and Fine Arts (minimum one from each)		6
Minimum Total Credit Hours:		132

<sup>1</sup> Teacher candidates are only permitted to repeat a field experience course once. Please see Repeating Field Experience Courses in Teacher Education Programs policy for details.

## Progression Requirements

Students seeking admission to this program must meet all professional requirements for admission to advanced study. To be admitted to the program, students must display evidence of the following:

- Adequate communication skills
- Sound content area knowledge (language arts, mathematics, science or social studies)
- Basic understanding of the teaching profession
- Basic understanding of adolescents
- Dispositions aligned with the conceptual framework of the College of Education, Health and Human Services, including being open-minded, flexible, caring and responsible.

Faculty will select the most qualified applicants based on an interview; letters of recommendation; GPA<sup>1</sup>; Praxis Core scores; and performance in English and communication studies coursework.

Applicants must have experience working with young adults in a supervisory capacity, such as tutoring, camp counseling, volunteer work or related experience. Students should contact the College of Education, Health, and Human Services' Vacca Office of Student Services, 304 White Hall, during the first year of study to inquire about the procedures and criteria associated with admission to advanced study.

<sup>1</sup> Undergraduate students who have not completed a minimum of 12 Kent State University credit hours will be evaluated for advanced study and professional phase based on their high school GPA for new freshmen or transfer GPA for transfer students.

## Graduation Requirements

Minimum Major GPA	Minimum Overall GPA
2.600	2.750

## Dual Majors/Dual Degrees

Students seeking to declare an additional teacher education major in the B.S.E. degree (double major) or in a different degree (dual degree) may have the double major/dual degree approved as long as the following requirements are met:

1. Approval is received from the academic unit administrating each major. A program of study for those interested in pursuing a double major must be approved in writing by faculty from each major area prior to admission to advanced study.
2. All required content courses are completed for each major
3. All required methods courses are completed for each major.
4. Separate practicum and inquiry courses are completed for each major as listed below:
  - a. ADED 42292 (or the equivalent required by the major outside the college)
  - b. ADED 49525 (or the equivalent required by the major outside the college)
5. Students who have two majors from among the following only need to take ADED 42392, consisting of a 16-week classroom experience involving both subject areas: Life Sciences, Earth Science, Physical Sciences, Integrated Science, Integrated Mathematics, Life Science/Chemistry, Integrated Social Studies and/or Integrated Language Arts.
6. Students who have a second major not included in the list above (#5) will have their student teaching requirements determined by faculty from both program areas at the time the program of study is developed, with a minimum 16 weeks spent in the classroom.

## Licensure information

Candidates seeking Ohio licensure are required to pass specific assessments in order to apply for licensure. See Ohio Department of Education-Educator Preparation website for more information on assessments specific to licensure type. Taking and passing the licensure tests prior to graduation is encouraged but not required.

Students must apply for State of Ohio Licensure (defined by completion of all licensure program requirements) within 12 months of program completion. After 12 months, applicants must meet State approved program/licensure requirements that are in effect at the time of application. This means that students who apply after the 12 month

deadline may have to take additional coursework if the content, methods courses, program requirements, or licensure requirements have changed from the catalog in force.

## Roadmap

This roadmap is a recommended semester-by-semester plan of study for this major. However, courses designated as critical (!) must be completed in the semester listed to ensure a timely graduation.

Semester One		Credits
CHEM 10060	GENERAL CHEMISTRY I (KBS)	4
CHEM 10062	GENERAL CHEMISTRY I LABORATORY (KBS) (KLAB)	1
MATH 11010	ALGEBRA FOR CALCULUS (KMCR)	3
PSYC 11762	GENERAL PSYCHOLOGY (DIVD) (KSS)	3
UC 10097	DESTINATION KENT STATE: FIRST YEAR EXPERIENCE	1
Kent Core Requirement		3
Kent Core Requirement		3
Credit Hours		18
Semester Two		
Requirement: Successful completion of Praxis Core Reading, Writing and Mathematics		
CHEM 10061	GENERAL CHEMISTRY II (KBS)	4
CHEM 10063	GENERAL CHEMISTRY II LABORATORY (KBS) (KLAB)	1
! CULT 29535	EDUCATION IN A DEMOCRATIC SOCIETY	3
MATH 11022	TRIGONOMETRY (KMCR)	3
SOC 12050	INTRODUCTION TO SOCIOLOGY (DIVD) (KSS)	3
Kent Core Requirement		3
Credit Hours		17
Semester Three		
Requirement: minimum overall 2.750 GPA by end of term and minimum C grade and 2.600 major GPA		
CHEM 20481	BASIC ORGANIC CHEMISTRY I	4
EPSY 29525	EDUCATIONAL PSYCHOLOGY	3
! MATH 12002	ANALYTIC GEOMETRY AND CALCULUS I (KMCR)	5
! PHY 23101	GENERAL UNIVERSITY PHYSICS I (KBS) (KLAB)	5
Credit Hours		17
Semester Four		
Requirement: minimum 2.750 overall GPA and minimum 2.600 major GPA		
ADED 20000	TOPICS IN SOCIAL JUSTICE IN TEACHING AND LEARNING	3
MATH 12003	ANALYTIC GEOMETRY AND CALCULUS II	5
! PHY 23102	GENERAL UNIVERSITY PHYSICS II (KBS) (KLAB)	5
Kent Core Requirement		3
Credit Hours		16
Semester Five		
Requirement: minimum 2.750 overall GPA and minimum 2.600 major GPA		
! ADED 32142	PRINCIPLES OF TEACHING ADOLESCENTS (WIC)	3
CHEM 30105	ANALYTICAL CHEMISTRY I	3
CI 47330	READING AND WRITING IN ADOLESCENCE/ADULTHOOD	3
EETEC 39525	EDUCATIONAL TECHNOLOGY	3
PHIL 11001	INTRODUCTION TO PHILOSOPHY (DIVG) (KHUM)	3
SPED 23000	INTRODUCTION TO EXCEPTIONALITIES (DIVD)	3
Credit Hours		18
Semester Six		
Requirement: minimum 2.750 overall GPA and minimum 2.600 major GPA		

ADED 32277	TEACHING SCIENCE IN SECONDARY SCHOOLS	3
CHEM 30284	INTRODUCTORY BIOLOGICAL CHEMISTRY	4
CHEM 30301	INORGANIC CHEMISTRY I	2
PHY 21430	FRONTIERS IN ASTRONOMY (KBS)	3
PHY 30020	INTERMEDIATE PHYSICS LABORATORY (WIC)	2
PHY 36001	INTRODUCTORY MODERN PHYSICS	3
Credit Hours		17
Semester Seven		
Requirements: minimum 2.750 overall GPA and minimum 2.600 major GPA		
! ADED 42277	TOPICS IN SECONDARY SCHOOL SCIENCE TEACHING	3
BSCI 10120	BIOLOGICAL FOUNDATIONS (KBS) (KLAB)	4
! ADED 42292	FIELD WORK PRACTICUM (ELR)	3
CHEM 40567	PHYSICAL CHEMISTRY FOR LIFE SCIENCES	4
PHY 32511	ELECTRONICS	3-4
or	or APPLICATIONS OF MODERN PHYSICS	
PHY 36002		
Credit Hours		17
Semester Eight		
Requirement: minimum 2.750 overall GPA and minimum 2.600 major GPA		
! ADED 42392	SECONDARY STUDENT TEACHING (ELR)	9
! ADED 49525	INQUIRY INTO PROFESSIONAL PRACTICE	3
Credit Hours		12
Minimum Total Credit Hours:		132

## Reading Specialization - M.Ed.

### College of Education Health and Human Services

School of Teaching, Learning and Curriculum Studies

404 White Hall

Kent Campus

330-672-2580

[www.kent.edu/ehhs/tlcs](http://www.kent.edu/ehhs/tlcs)

## Description

The Master of Education degree in Reading Specialization develops practical and professional knowledge that is essential for educators concerned with the improvement of literacy at all instructional levels. Students study the nature of the reading and writing processes; the interrelationships between language, literature and literacy; literacy learning and teaching; the nature and needs of students who find reading and writing difficult; reading and writing as vehicles for learning and enjoyment; and the role of research in literacy instruction.

### Fully Offered At:

- Kent Campus

## Admission Requirements

- Bachelor's degree from an accredited college or university for unconditional admission
- Minimum 3.000 undergraduate GPA on a 4.000 point scale for unconditional admission
- Official transcript(s)
- Goal statement



- Two letters of recommendation
- English language proficiency - all international students must provide proof of English language proficiency (unless they meet specific exceptions) by earning one of the following:
  - Minimum 550 TOEFL PBT score (paper-based version)
  - Minimum 79 TOEFL IBT score (Internet-based version)
  - Minimum 77 MELAB score
  - Minimum 6.5 IELTS score
  - Minimum 58 PTE score
  - Minimum 110 Duolingo English Test score

For more information about graduate admissions, please visit the Graduate Studies admission website. For more information on international admission, visit the Office of Global Education's admission website.

## Program Learning Outcomes

Graduates of this program will be able to:

1. Demonstrate outstanding or satisfactory knowledge of the foundations of reading and writing processes and instruction.
2. Use a wide range of instructional practices, approaches, methods and curriculum materials to support reading and writing instruction.
3. Use of a variety of assessment tools and practices to plan and evaluate effective reading instruction.
4. Create and engage their students in literacy practices that develop awareness, understanding, respect and valuing of differences in society.
5. Create a literate environment that fosters reading and writing by integrating foundational knowledge, use of instructional practices, approaches and methods, curriculum materials and the appropriate use of assessments.
6. View professional development as a career long effort and responsibility.

## Program Requirements

### Major Requirements

Code	Title	Credit Hours
<b>Major Requirements</b>		
CI 50093	VARIABLE TITLE WORKSHOP IN CURRICULUM AND INSTRUCTION	1
or CI 67096	INDIVIDUAL INVESTIGATION IN CURRICULUM AND INSTRUCTION	
or CI 67396	INDIVIDUAL INVESTIGATION IN READING AND LANGUAGE ARTS	
CI 67310	THEORY AND PRACTICE IN THE TEACHING OF READING <sup>1</sup>	3
CI 67319	DIAGNOSIS AND REMEDIATION IN READING <sup>1</sup>	3
CI 67320	TEACHER AS LITERACY RESEARCHER	3
CI 67330	READING IN CONTENT AREAS	3
CI 67351	PERSPECTIVES ON LITERACY RESEARCH	3
CI 67352	LITERACY COACHING	3
CI 67353	MULTICULTURAL VOICES IN TEACHING CHILDREN'S AND YOUNG ADULT LITERATURE	3
or CULT 69521	MULTICULTURAL EDUCATIONAL PRACTICE AND POLICY	
or CULT 69522	ETHICS IN PROFESSIONAL PRACTICE	

CI 67396	INDIVIDUAL INVESTIGATION IN READING AND LANGUAGE ARTS	1
CI 67692	CLINICAL PRACTICUM IN CORRECTIVE READING <sup>1</sup>	3
Major Electives, choose from the following:		6
CI 67312	TEACHING WRITING AS A PROCESS	
CI 67517	NEW LITERACIES IN PRACTICE	
MCED 50005	EFFECTIVE USE OF PHONICS IN READING	
MCED 50007	TEACHING READING WITH LITERATURE IN MIDDLE CHILDHOOD	

Minimum Total Credit Hours: 32

- <sup>1</sup> Courses must be taken in sequence and are required for reading endorsement. MCED 50005 may also be required for reading endorsement if the student has not taken a phonics course.

## Graduation Requirements

- No more than one-half of a graduate student's coursework may be taken in 50000 level courses.

## Licensure information

Candidates seeking Ohio licensure are required to pass specific assessments in order to apply for licensure. Students should consult their advisors for specific program requirements and refer to the Ohio Department of Education-Educator Preparation website for more information on assessments specific to licensure type.

## Secondary Education - M.A.T.

### College of Education Health and Human Services

School of Teaching, Learning and Curriculum Studies

404 White Hall

Kent Campus

330-672-2580

[www.kent.edu/ehhs/tlcs](http://www.kent.edu/ehhs/tlcs)

## Description

The Master of Arts in Teaching degree in Secondary Education serves individuals who have never held a teaching certificate or license. There are two options of study: (1) 11-month option, which requires full-time study beginning the summer of the year admitted and continuing through the academic year; (2) two-year option, which allows part-time enrollment.

The Secondary Education major comprises the following concentrations:

- Art
- Chemistry/Physics
- Dance
- Earth Science
- English/Language Arts
- French
- German
- Health
- Integrated Science
- Latin
- Life Science

- Life Science-Chemistry
- Mathematics
- Music
- Physics
- Social Studies
- Spanish

### Fully Offered At:

- Kent Campus

## Accreditation

National Council for Accreditation of Teacher Education

## Admission Requirements

Applicants will be assessed holistically, considering academic credentials; standardized test scores of reading, writing, and mathematics; academic or professional references; non-academic dimensions; and other specific program criteria.

- Bachelor's degree from an accredited college or university for unconditional admission
- Minimum 3.000 undergraduate GPA on a 4.000 point scale for unconditional admission
- Official transcript(s)
  - GRE scores, minimum score of 50th percentile or higher is recommended (Effective Spring 2021, GRE requirement will be replaced with Praxis Core tests in reading, writing, and mathematics<sup>1</sup>)
- Résumé
- Essay (1000 words) explaining desire to teach
- Questions in Anticipation of Licensure form
- Content evaluation (to be completed before applying)
- Two letters of recommendation
- Interview
- English language proficiency - all international students must provide proof of English language proficiency (unless they meet specific exceptions) by earning one of the following:
  - Minimum 550 TOEFL PBT score (paper-based version)
  - Minimum 79 TOEFL IBT score (Internet-based version)
  - Minimum 77 MELAB score
  - Minimum 6.5 IELTS score
  - Minimum 58 PTE score
  - Minimum 110 Duolingo English Test score

For more information about graduate admissions, please visit the Graduate Studies admission website. For more information on international admission, visit the Office of Global Education's admission website.

<sup>1</sup> A GRE waiver may be granted for those applicants with a master's, Ph.D., M.D. or J.D. degree. Effective Spring 2021, Praxis Core tests in reading, writing, and mathematics will be required. All initial teacher licensure candidates are required to demonstrate basic competency in reading, writing and mathematics prior to admission. To demonstrate these competencies, students are required to take the Praxis Core tests in Reading, Mathematics, and Writing unless exempted by GRE scores fewer than five years old at the time of application. In order to gain exemption from Praxis CORE requirements, a student must achieve at or above the 50<sup>th</sup> percentile scores on the GRE Verbal, Quantitative, and Analytical Writing tests. Students who have not taken the GRE are strongly encouraged to take the Praxis CORE tests to demonstrate these competencies, rather than GRE. Further information is available in the Office of Graduate Student Services, 418 White Hall.

#### Competency Test Equivalents:

- Reading: GRE Verbal Reasoning/Praxis CORE Reading
- Mathematics: GRE Quantitative Reasoning, Praxis CORE
- Writing: GRE Analytical Writing, Praxis CORE Writing

## Program Learning Outcomes

Graduates of this program will be able to:

1. Implement current learning theories in the classroom.
2. Demonstrate continued professional development.
3. Understand the scope and sequence of curriculum in their content area for grades seven to 12.
4. Use reflection on teaching as a tool for improving teaching and student learning.
5. Incorporate the appropriate use of technology in classroom lessons to increase student learning.
6. Demonstrate how schools work and how support staff, parents and the community can be utilized to foster and improve their future students' success.
7. Recognize the importance of planning that incorporate national and state standards for their content area.
8. Develop and refine skills in planning, assessment and classroom management that maximize learning for all students.

## Program Requirements

### Major Requirements

Code	Title	Credit Hours
<b>Major Requirements</b>		
ADED 62145	PRINCIPLES OF SECONDARY TEACHING	3
ADED 62191	SEMINAR IN SECONDARY EDUCATION <sup>1</sup>	4
ADED 62192	ADVANCED PRACTICUM AND INTERNSHIP IN SECONDARY EDUCATION <sup>2</sup>	12
ADED 62198	RESEARCH IN SECONDARY EDUCATION	3
ADED 67147	TEACHING ADOLESCENTS IN THE SECONDARY SCHOOL CULTURE	3
CULT 65530	FOUNDATIONS OF EDUCATION AND HUMAN SERVICES	3
EPSY 68901	PSYCHOLOGICAL FOUNDATIONS OF EDUCATION	3
SPED 53062	CURRICULUM METHODS MILD/MODERATE INTERVENTION	3

### Concentration Requirements

Choose from the following: 6-9

Art
Chemistry/Physics
Dance
Earth Science
English/Language Arts
French
German
Health
Integrated Science
Latin
Life Science
Life Science-Chemistry
Mathematics
Music
Physics
Social Studies
Spanish

Minimum Total Credit Hours: 40-43

<sup>1</sup> Students in the two-year option of study have an additional field work component, which requires an additional credit hour of ADED 62191. Teacher candidates are only permitted to repeat a field experience course once. Please see Repeating Field Experience Courses in Teacher Education Programs policy for details.

<sup>2</sup> Candidates seeking multi-age licensures are required to take 13 credit hours of ADED 62192. Teacher candidates are only permitted to repeat a field experience course once. Please see Repeating Field Experience Courses in Teacher Education Programs policy for details.

### Art Concentration Requirements

Code	Title	Credit Hours
<b>Concentration Requirements</b>		
CI 67330	READING IN CONTENT AREAS	3
	Methods I Course (in concentration area)	3
	Methods II Course (in concentration area)	3
Minimum Total Credit Hours:		9

### Chemistry/Physics Concentration Requirements

Code	Title	Credit Hours
<b>Concentration Requirements</b>		
CI 67330	READING IN CONTENT AREAS	3
	Methods I Course (in concentration area)	3
Minimum Total Credit Hours:		6

### Dance Concentration Requirements

Code	Title	Credit Hours
<b>Concentration Requirements</b>		
CI 67330	READING IN CONTENT AREAS	3
	Methods I Course (in concentration area)	3
Minimum Total Credit Hours:		6

### Earth Science Concentration Requirements

Code	Title	Credit Hours
<b>Concentration Requirements</b>		
CI 67330	READING IN CONTENT AREAS	3
	Methods I Course (in concentration area)	3
Minimum Total Credit Hours:		6

### English/Language Arts Concentration Requirements

Code	Title	Credit Hours
<b>Concentration Requirements</b>		
	Methods I Course (in concentration area)	3
	Methods II Course (in concentration area)	3
Minimum Total Credit Hours:		6

### French Concentration Requirements

Code	Title	Credit Hours
<b>Concentration Requirements</b>		
CI 67330	READING IN CONTENT AREAS	3
	Methods I Course (in concentration area)	3
Minimum Total Credit Hours:		6

### German Concentration Requirements

Code	Title	Credit Hours
<b>Concentration Requirements</b>		
CI 67330	READING IN CONTENT AREAS	3
	Methods I Course (in concentration area)	3
Minimum Total Credit Hours:		6

### Health Concentration Requirements

Code	Title	Credit Hours
<b>Concentration Requirements</b>		
CI 67330	READING IN CONTENT AREAS	3
	Methods I Course (in concentration area)	3
Minimum Total Credit Hours:		6

### Integrated Science Concentration Requirements

Code	Title	Credit Hours
<b>Concentration Requirements</b>		
CI 67330	READING IN CONTENT AREAS	3
	Methods I Course (in concentration area)	3
Minimum Total Credit Hours:		6

### Latin Concentration Requirements

Code	Title	Credit Hours
<b>Concentration Requirements</b>		
CI 67330	READING IN CONTENT AREAS	3
	Methods I Course (in concentration area)	3
Minimum Total Credit Hours:		6

## Life Science Concentration Requirements

Code	Title	Credit Hours
<b>Concentration Requirements</b>		
CI 67330	READING IN CONTENT AREAS	3
Methods I Course (in concentration area)		3
Minimum Total Credit Hours:		6

## Life Science-Chemistry Concentration Requirements

Code	Title	Credit Hours
<b>Concentration Requirements</b>		
CI 67330	READING IN CONTENT AREAS	3
Methods I Course (in concentration area)		3
Minimum Total Credit Hours:		6

## Mathematics Concentration Requirements

Code	Title	Credit Hours
<b>Concentration Requirements</b>		
Methods I Course (in concentration area)		3
Methods II Course (in concentration area)		3
Minimum Total Credit Hours:		6

## Music Concentration Requirements

Code	Title	Credit Hours
<b>Concentration Requirements</b>		
CI 67330	READING IN CONTENT AREAS	3
Methods I Course (in concentration area)		3
Minimum Total Credit Hours:		6

## Physics Concentration Requirements

Code	Title	Credit Hours
<b>Concentration Requirements</b>		
CI 67330	READING IN CONTENT AREAS	3
Methods I Course (in concentration area)		3
Minimum Total Credit Hours:		6

## Social Studies Concentration Requirements

Code	Title	Credit Hours
<b>Concentration Requirements</b>		
CI 67330	READING IN CONTENT AREAS	3
Methods I Course (in concentration area)		3
Minimum Total Credit Hours:		6

## Spanish Concentration Requirements

Code	Title	Credit Hours
<b>Concentration Requirements</b>		
CI 67330	READING IN CONTENT AREAS	3
Methods I Course (in concentration area)		3
Minimum Total Credit Hours:		6

## Graduation Requirements

Students may be required to complete additional curriculum content coursework for licensure.

## Licensure Information

Candidates seeking Ohio licensure are required to pass specific assessments in order to apply for licensure. Students should consult their advisors for specific program requirements and refer to the Ohio Department of Education-Educator Preparation website for more information on assessments specific to licensure type.

## Sport, Exercise and Performance Psychology - Minor

**College of Education Health and Human Services**  
 School of Teaching, Learning and Curriculum Studies  
 404 White Hall  
 Kent Campus  
 330-672-2580  
[www.kent.edu/ehhs/tlcs](http://www.kent.edu/ehhs/tlcs)

## Description

The Sport, Exercise and Performance Psychology minor provides students, athletes and those preparing for careers as coaches, sport practitioners and sport administrators with the knowledge of psychological theory and skills development to enhance human behavior in sport and exercise settings and artistic performance. The minor explores social-psychological concepts such as motivation, self-confidence, concentration, anxiety or burnout, and how these concepts can influence a sport environment (e.g., losing focus under pressure or self-doubt during a game). Students are prepared to work in a wide-range of sport-related fields or to further their education in their chosen careers by continuing to a graduate program and certification.

## FULLY OFFERED AT:

- Online
- Hybrid (on-ground/online)

## Admission Requirements

Admission to a minor is open to students declared in a bachelor's degree, the A.A.B. or A.A.S. degree or the A.T.S. degree (not Individualized Program major). Students declared only in the A.A. or A.S. degree or the A.T.S. degree in Individualized Program may not declare a minor. Students may not pursue a minor and a major in the same discipline.

## Program Learning Outcomes

Graduates of this program will be able to:

1. Gain knowledge and skills on the influences of the psychological aspects of exercise, injury and physical activity on performance.
2. Achieve a greater understanding of performance and achievement within the context of sport at a variety of levels, with diverse populations and in many different sports.

3. Consider a holistic perspective of sport, which includes athlete-centered coaching, cultural competence, development of character and life lessons through youth sport.
4. Demonstrate effective leadership and ethical decision-making skills.

## Minor Requirements

Code	Title	Credit Hours
<b>Minor Requirements</b>		
PESP 45015	PSYCHOLOGY OF COACHING	3
PSYC 41584	THE PSYCHOLOGY OF EXERCISE <sup>1</sup>	3
SEPP 20026	PSYCHOLOGICAL FOUNDATIONS OF SPORT AND EXERCISE	3
SEPP 45007	PRINCIPLES AND APPLICATION OF SPORT PSYCHOLOGY	3
SEPP 45300	MOTIVATION IN SPORT, PERFORMANCE, AND MOVEMENT SETTINGS	3
Minor Elective, choose from the following:		2-3
ATTR 43018	ETHICAL LEADERSHIP FOR HEALTH CARE (WIC)	
HED 46052	STRESS: RECOGNITION AND MANAGEMENT	
PESP 25033	LIFESPAN MOTOR DEVELOPMENT	
PESP 45020	CONTEMPORARY ATHLETIC COACHING	
SEPP 40020	HIGH PERFORMANCE ATHLETES IN SPORT	
SPAD 25000	SPORT IN SOCIETY (DIVD)	
SPAD 45024	SPORT IN GLOBAL PERSPECTIVE	
Course approved by faculty advisor		
Minimum Total Credit Hours:		17

<sup>1</sup> Course has prerequisite (PSYC 11762) outside of the minor requirements.

## GRADUATION REQUIREMENTS

Minimum Minor GPA	Minimum Overall GPA
2.000	2.000

- Minimum 6 credit hours in the minor must be upper-division coursework (30000 and 40000 level).
- Minimum 6 credit hours in the minor must be outside of the course requirements for any major or other minor the student is pursuing.
- Minimum 50 percent of the total credit hours for the minor must be taken at Kent State (in residence).

## College of Nursing

**College of Nursing**  
Henderson Hall  
Kent Campus  
330-672-7930  
nursing@kent.edu  
www.kent.edu/nursing

### Academic Advising Offices

Undergraduate  
216 Henderson Hall

Kent Campus  
330-672-7911  
www.kent.edu/nursing/students/advisors

Graduate  
216 Henderson Hall  
Kent Campus  
330-672-2234  
www.kent.edu/nursing/students/advisors

## Introduction

The College of Nursing provides courses of study at the bachelor's, master's and doctoral levels. Graduates of the Bachelor of Science in Nursing degree are eligible to apply to take the state licensing examination to become professional registered nurses. Study for the Master of Science in Nursing degree includes options for clinical focus in numerous areas—acute care, adult-gerontology, family, pediatric, psychiatric mental health, women's health—as well as role function in administration, nursing education, clinical specialization or as nurse practitioners. Doctoral course work is available in the Ph.D. and Doctor of Nursing Practice degrees.

### Undergraduate Programs

- Nursing - B.S.N.
- Nursing for Registered Nurses - B.S.N.

## Graduate Programs

- Nursing - M.S.N.
- Nursing - D.N.P.
- Nursing - Ph.D.

## Certificates

### Graduate Certificates

- Adult/Adolescent Sexual Assault Nurse Examiner
- Adult Gerontology Acute Care Nurse Practitioner
- Adult Gerontology Clinical Nurse Specialist
- Adult Gerontology Primary Care Nurse Practitioner
- Family Nurse Practitioner
- Nurse Educator
- Nursing Administration and Health Systems Leadership
- Pediatric Primary Care Nurse Practitioner
- Psychiatric Mental Health Nurse Practitioner
- Women's Health Nurse Practitioner
- Assigning Out-of-Sequence Students to Clinical Nursing Courses
- Clinical Compliance Policy
- Uniform for Clinical Experience
- Not Permitted to Continue Policy within the College of Nursing
- Repeat of Nursing Courses
- Reinstatement Into the College of Nursing
- Changing Campuses
- Science GPA Calculation Policy



## College of Nursing Faculty

- Aller, Loretta J. (2010), Associate Lecturer, M.S.N., Kent State University, 1995
- Ancona, Ann C. (2003), Associate Lecturer, M.S.N., University of Akron, 2000
- Anthony, Mary K. (2005), Professor & Associate Dean, Ph.D., Case Western Reserve University, 1995
- Bacha, Mary B. (2007), Associate Lecturer, M.S.N., Kent State University, 1983
- Baller, Patricia M. (1998), Senior Lecturer, M.S.N., University of Kentucky, 1982
- Beckley, Lyndy E. (2017), Lecturer, M.S.N., Kent State University, 2016
- Bixler, Sarah (2013), Lecturer, M.S.N., Kent State University, 2014
- Blackwell, James (2018), Lecturer
- Bowen, Lucas S. (2013), Lecturer, M.S.N., Kent State University, 2015
- Bracken-Ott, Heather L. (2017), Lecturer, M.S., Chamberlain College of Nursing, Addison, 2017
- Brady, Cheryl L. (1994), Senior Lecturer, M.S.N., University of Akron, 1994
- Brison, Laura J. (2007), Senior Lecturer, M.A.T., Marygrove College, 2003
- Broome, Barbara A. (2014), Professor & College Dean, Ph.D., University of Pittsburgh, 1997
- Burhanna, Taryn R. (2006), Lecturer, M.S.N., Kent State University, 2018
- Caplin, Marcy S. (2001), Associate Professor, Ph.D., Kent State University, 2016
- Cifani, Debra K. (2009), Associate Lecturer, D.N.P., Kent State University, 2017
- Cleveland, Kimberly A. (2015), Lecturer, J.D., Cleveland Marshall College of Law, 2003
- Colwell, Alice (2008), Associate Lecturer, M.S.N., Kent State University, 2011
- Davis, Lisa M. (2016), Lecturer, M.S.N., Kent State University, Stark Campus, 2016
- DePaul, Kimberly E. (2011), Lecturer, M.S.N., Kent State University, 2013
- Dodson, Tracy M. (2016), Lecturer, M.S.N., Jacksonville University, 2016
- Dowell, Jo A. (2015), Assistant Professor, Ph.D., University of North Carolina, Chapel Hill, 2011
- DuVall, Melissa E. (2018), Lecturer, Ph.D., M.S.N., 2017
- Dwinnells, Kathleen M. (1994), Associate Professor, Ph.D., Kent State University, 2017
- Dyer, Melissa B. (2007), Senior Lecturer, M.S.N., Kent State University, 2003
- Echeverry, Lisa M. (2008), Associate Professor, D.N.P., Rush University, 2013
- Ferguson, Joann H. (2009), Lecturer, M.S., Walden University, 2008
- Ferranto, Mary L. (1994), Professor, Ph.D., Kent State University, 2013
- Fisher, Benita L. (2008), Lecturer, M.S.N., Case Western Reserve University, 1992
- Fleming, Diana L. (2007), Senior Lecturer, M.S.N., University of Phoenix, 2005
- Fox, Tamara A. (2006), Lecturer, M.S.N., Ursuline College, 2001
- Gaddis, Lynn M. (2017), Assistant Professor, D.N.P., Kent State University, 2017
- Gidden, Tracy L. (2003), Senior Lecturer, M.S.N., Kent State University, 1996
- Hansen, Dana M. (2012), Associate Professor, Ph.D., Case Western Reserve University, 2013
- Hawkins, Krista L. (2009), Lecturer, M.S.N., Kent State University, Salem, 2017
- Herzog, Edward A. (2004), Senior Lecturer, M.S.N., University of Cincinnati, 1983
- Hill, Diane S. (2007), Senior Lecturer, M.S.N., Kent State University, 1993
- Howell, Christina M. (2019), Lecturer, M.S.N., Walden University, 2018
- Jacobson, Kristine (1998), Lecturer, M.S.N., Kent State University, 2006
- James, Ann M. (2013), Lecturer, M.S.N., Kent State University, 2015
- Jarzembak, Jeremy M. (1994), Senior Lecturer, M.A., Kent State University, 2002
- Jarzembak, Kellie (2008), Lecturer, M.S.N., Kent State University, 2013
- Kauth, Christine (1993), Professor, Ph.D., Capella University, 2016
- Knox, Louise H. (2012), Associate Professor, D.N.P., Case Western Reserve University, 1998
- Kotsch, Janeen S. (2007), Senior Lecturer, M.S.N., University of Phoenix, 2007
- Kutchin, Mary F. (2006), Associate Lecturer, M.S.N., Kent State University, 1991
- Larubina, Jessica L. (2019), Lecturer, M.S.N., Walden University, 2012
- Lazaroff, Eldora L. (2006), Professor, D.N.P., Kent State University, 2018
- Lewis, Lory A. (2015), Assistant Professor, Ph.D., Kent State University, 2014
- Lukach, Mary B. (1993), Senior Lecturer, M.S.N., Kent State University, 1992
- Martin, Lorene S. (2004), Senior Lecturer, M.S.N., Kent State University, 2005
- Mascolo, Karen L. (2011), Associate Professor, D.N.P., The Ohio State University, 2011
- McFarland, Earl (2017), Lecturer, M.S.N., Case Western Reserve University, 1999
- Metheney, Jennifer R. (2006), Senior Lecturer, M.S.N., Kent State University, 2005
- Meyers, Timothy (2007), Professor, Ph.D., Kent State University, 2016
- Mittas, Lisa L. (2016), Lecturer
- Motter, Tracey M. (1993), Assistant Professor & Associate Dean, D.N.P., Kent State University, 2016
- Mountain, Cherie (2011), Lecturer, M.S.N., Walden University, Baltimore, 2008
- Myers, Kerry H. (2013), Associate Lecturer, M.S.N., Kent State University, 2013
- Nelson, Andrea L. (2019), Lecturer
- Nibling, Marilyn (2008), Assistant Professor, D.N.P., University of Akron, 2015
- Onesko, Lisa M. (2008), Assistant Professor, D.N.P., Rush University, 2013
- Owen, Melissa A. (2016), Lecturer, M.S.N., Kent State University, 2015

- Pacholski, Denise C. (2008), Lecturer, M.S.N., University of Akron, 2000
- Petrinec, Amy B. (2016), Assistant Professor, Ph.D., Case Western Reserve University, 2014
- Pierce-Brown, Sarah E. (2008), Lecturer, M.S.N., Kent State University, 2017
- Rafferty-Semon, Pamela H. (2009), Associate Lecturer, M.S.N., University of Phoenix, 2009
- Redfern, Christina M. (2018), Lecturer, B.S.N., Kent State University, 2013
- Reed, Janet M. (2013), Associate Lecturer, M.S.N., University of Toledo, 2013
- Revlock, Marna M. (2016), Lecturer
- Roberts, Betty L. (2014), Lecturer, M.S.N., Kent State University, 1998
- Robinson, Laurie B. (2015), Lecturer, M.S.N., Kent State University, 2016
- Saunders, Tina L. (2006), Senior Lecturer, M.S.N., Kent State University, 2004
- Severino, Gina M. (2006), Senior Lecturer, M.S.N., Youngstown State University, 2006
- Shanholtzer, Jennifer R. (2011), Associate Lecturer, M.S.N., Kent State University, 2011
- Sheehan, Denise (2007), Associate Professor, Ph.D., University of Akron, 2007
- Shelestak, Debra S. (1996), Assistant Professor, Ph.D., Kent State University, 2007
- Smith, Yvonne M. (2005), Assistant Professor, Ph.D., Kent State University, 2014
- Stephenson, Pamela L. (2009), Associate Professor, Ph.D., Kent State University, 2011
- Thomas, Elaine (2002), Senior Lecturer, M.S.N., University of Akron, 2000
- Tudhope, James (2015), Assistant Professor, M.S.N., Kent State University, 2013
- Umberger, Wendy A. (1985), Professor & Associate Dean, Ph.D., Case Western Reserve University, 2002
- Veney, Amy J. (2013), Associate Lecturer, M.S.N., Kent State University, 2013
- Vermeersch, Patricia E. (2011), Professor, Ph.D., Case Western Reserve University, 1986
- Walker, Lynne J. (2012), Associate Lecturer, M.S.N., Kent State University, 2011
- Wang, Yafen (2013), Associate Professor, Ph.D., Case Western Reserve University, 2013
- Warner-Stidham, Andrea M. (1994), Assistant Professor, M.S.N., Kent State University, 2013
- Weil, Heather (2012), Lecturer, M.S.N., University of Phoenix, 2012
- Wilk, Cindy A. (2003), Senior Lecturer, M.S.N., Kent State University, 2000

## Nursing (NURS)

### NURS 10060 INTRODUCTION TO PROFESSIONAL NURSING PRACTICE 3 Credit Hours

Focus on nursing's development as a discipline and profession. The art and science of nursing including the Scope and Standards of Practice, nursing theory, evidence based practice, and therapeutic communication will be explored.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

### NURS 20020 FOUNDATIONS OF ASSESSMENT AND COMMUNICATION IN NURSING 3 Credit Hours

Individuals are assessed as members of families and community members. Communication in nursing is explored. Students must be admitted to the Professional Nursing Sequence to be able register for this course.

**Prerequisite:** Special approval.

**Schedule Type:** Laboratory, Lecture

**Contact Hours:** 2 lecture, 1 lab

**Grade Mode:** Standard Letter

### NURS 20025 PHARMACOLOGY AND ALTERATIONS IN PHYSIOLOGICAL FUNCTIONING I 3 Credit Hours

This course provides nursing students with an introduction to the basic principles of pathophysiology and pharmacology. It offers a general understanding of pathophysiologic processes of body systems and the major classes of pharmacotherapeutic agents that are used to treat these pathophysiologic processes. The course focuses on mechanisms of action, effects of medications, pharmacodynamics, pharmacokinetics, as well as principles that guide the administration of medications, dosage, and nursing responsibilities. Age and cultural differences related medication administration will be addressed throughout the course. Students must be admitted to the Professional Nursing Sequence to be able register for this course.

**Prerequisite:** NURS 20020 or NURS 20040 (as a corequisite); and nursing major; and sophomore standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

### NURS 20030 FOUNDATIONS OF NURSING INTERVENTIONS 5 Credit Hours

Foundations of nursing interventions focuses on selected aspects of nursing care to improve the health of individuals within families and groups. Utilizes principles of the interpersonal process, nursing process and professional nursing. Students must be admitted to the Professional Nursing Sequence to be able register for this course.

**Prerequisite:** NURS 20020 with a minimum C grade.

**Schedule Type:** Clinical Laboratory, Laboratory, Lecture

**Contact Hours:** 2 lecture, 3 lab, 6 other

**Grade Mode:** Standard Letter

**NURS 20040 FUNDAMENTALS OF NURSING 8 Credit Hours**

Foundations of Nursing focuses on selected aspects of nursing care to improve the health of individuals within families and communities. Individuals are assessed as members of families and community members. Communication in nursing is explored. Principles of the interpersonal process, nursing process, and professional nursing are utilized. Students must be admitted to the Professional Nursing Sequence to be able register for this course.

**Prerequisite:** CHEM 10050 or CHEM 10055 or CHEM 10060; and BSCI 21010 and BSCI 21020; and BSCI 20021 or BSCI 30171; and special approval.

**Schedule Type:** Clinical Laboratory, Laboratory, Lecture

**Contact Hours:** 4 lecture, 4 lab, 6 other

**Grade Mode:** Standard Letter

**NURS 20950 HUMAN GROWTH AND DEVELOPMENT FOR HEALTH PROFESSIONALS 3 Credit Hours**

Examines theoretical principles and concepts of human growth and development throughout the life cycle applicable to personal and professional activities essential to the accurate assessment of human needs and understanding human behaviors.

**Prerequisite:** PSYC 11762; and sophomore standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** CTAG Nursing/Associate Degree

**NURS 21095 SPECIAL TOPICS IN NURSING 2-4 Credit Hours**

(Repeatable for credit) Scheduled topics of interest to faculty and students.

**Prerequisite:** Sophomore standing.

**Schedule Type:** Lecture

**Contact Hours:** 2-4 lecture

**Grade Mode:** Standard Letter

**NURS 21096 INDIVIDUAL INVESTIGATION IN NURSING 2-4 Credit Hours**

(Repeatable for credit) Designed for the student interested in exploration and research of material not covered in required nursing courses.

**Prerequisite:** Sophomore standing; and special approval.

**Schedule Type:** Individual Investigation

**Contact Hours:** 2-4 other

**Grade Mode:** Standard Letter

**NURS 30010 PARENT AND NEWBORN NURSING 4 Credit Hours**

A study of nursing assessment, need identification and evaluation for individuals and families during the child bearing cycle. Students must be admitted to the Professional Nursing Sequence to be able register for this course. This course integrates concepts to prepare students to deliver culturally congruent and appropriate care.

**Prerequisite:** Minimum C grade in NURS 20020 and NURS 20030 or NURS 20040; and NURS 20950.

**Corequisite:** NURS 30020.

**Schedule Type:** Clinical Laboratory, Laboratory, Lecture

**Contact Hours:** 2 lecture, .8 lab, 4 other

**Grade Mode:** Standard Letter

**NURS 30015 PHARMACOLOGY FOR INFANTS, CHILDREN AND MATERNAL CHILD HEALTH 3 Credit Hours**

(Repeatable for credit) Provides additional information to better understand the complexity of pediatric medications and their safe delivery to pediatric patients of all ages. Also, identifies safe practices for medication administration to mothers and their newborns.

**Pre/corequisite:** NURS 30010 or NURS 30020.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**NURS 30020 HEALTH CARE OF CHILDREN 4 Credit Hours**

Emphasis on nursing process in family-centered care of children including health and developmental promotion and illness and restorative intervention. This course integrates concepts to prepare students to deliver culturally congruent and appropriate care. Students must be admitted to the Professional Nursing Sequence to be able register for this course.

**Prerequisite:** Minimum C grade in NURS 20020 and NURS 20030 or NURS 20040.

**Corequisite:** NURS 30010.

**Schedule Type:** Clinical Laboratory, Laboratory, Lecture

**Contact Hours:** 2 lecture, .8 lab, 4 other

**Grade Mode:** Standard Letter

**NURS 30025 PHARMACOLOGY AND ALTERATIONS IN PHYSIOLOGICAL FUNCTIONING II 3 Credit Hours**

This course is a continuation of the study of pathophysiology and pharmacology for nursing students. It provides a deeper understanding of pathophysiologic processes of body systems, the management of disease states, interpretation of lab values, and the analysis of symptomology and nursing indicators to allow students to initiate appropriate nursing actions as related to pharmacology and pathophysiology. This course explores assessment of therapeutic effects, side effects, and adverse reactions of medications and presents teaching skills needed to enhance patient education and pharmacologic literacy. Students must be admitted to the Professional Nursing Sequence to be able register for this course.

**Prerequisite:** NURS 20025 with a minimum C grade; and nursing major; and sophomore standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**NURS 30035 NURSING OF ADULTS ACROSS THE LIFESPAN 9 Credit Hours**

Emphasizes the care of adults, focused on health promotion, prevention of episodic illness, and maintenance of health status. Gerontologic changes and rehabilitation needs will be addressed. Utilizes nursing process as a foundation to provide nursing care. Course is composed of classroom and clinical experience in the acute, chronic, and rehabilitation care settings. This course integrates concepts to prepare students to deliver culturally congruent and appropriate care. Students must be admitted to the Professional Nursing Sequence to be able register for this course.

**Prerequisite:** Minimum C grade in either NURS 20020 (and NURS 20030) or NURS 20040; and NURS 20950.

**Schedule Type:** Clinical Laboratory, Laboratory, Lecture

**Contact Hours:** 5 lecture, 1.6 lab, 8 other

**Grade Mode:** Standard Letter

**NURS 30050 BASIC NURSING INFORMATICS 2 Credit Hours**

Focuses on the use of nursing informatics for clinical nursing practice, inquiry and communication. This course integrates concepts to prepare students to deliver culturally congruent and appropriate care. Students must be admitted to the Professional Nursing Sequence to be able register for this course.

**Prerequisite:** NURS 20020 with a minimum C grade; and NURS 20030 or NURS 20040 with a minimum C grade.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**NURS 30070 HEALTH CARE POLICY (WIC) 3 Credit Hours**

This course looks at the organizational and societal context in which health care is delivered in the U.S. A historical perspective is developed early in the semester. Building on this, the course explores existing health care policy early in the semester. Building on this, the course explores existing health networks, forms of care delivery, consumer needs and economics and funding. This course integrates concepts to prepare students to deliver culturally congruent and appropriate care. Students must be admitted to the Professional Nursing Sequence to be able register for this course.

**Prerequisite:** NURS 20030 with a minimum C grade.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Writing Intensive Course

**NURS 31010 APPLICATIONS FOR STATISTICAL FINDINGS FOR EVIDENCE BASED PRACTICE 3 Credit Hours**

An introduction to statistical techniques with an emphasis on application in the health care setting.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**NURS 31095 SPECIAL TOPICS IN NURSING 2-4 Credit Hours**

(Repeatable for credit) Scheduled topics of interest to faculty and students.

**Prerequisite:** NURS 20950.

**Schedule Type:** Lecture

**Contact Hours:** 2-4 lecture

**Grade Mode:** Standard Letter

**NURS 31096 INDIVIDUAL INVESTIGATION 2-4 Credit Hours**

(Repeatable for credit) Designed for the student interested in exploration and research of material not covered in required nursing courses.

**Prerequisite:** Special approval.

**Schedule Type:** Individual Investigation

**Contact Hours:** 2-4 other

**Grade Mode:** Standard Letter

**NURS 32060 TRANSCULTURAL NURSING ADVANCING CULTURAL HUMILITY 2 Credit Hours**

This course provides students with the opportunity to explore and understand the role of the transcultural nurse and the significance of cultural humility. Cultural humility serves as the basis for good moral education toward optimal healthcare and culturally competent and effective nursing care. Cultural humility recognizes that growth toward intercultural competence requires a lifelong journey of learning about and experiencing other cultures.

**Prerequisite:** Sophomore standing; and special approval.

**Schedule Type:** Laboratory, Combined Lecture and Lab, Seminar

**Contact Hours:** 1 lecture, 2 lab

**Grade Mode:** Standard Letter

**NURS 35020 TRANSCULTURAL NURSING AND HEALTH CARE 3 Credit Hours**

Provides students with the opportunity to explore and understand the role of the transcultural nurse in the care of patients from multiple and diverse cultural groups.

**Prerequisite:** Junior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**NURS 35030 PATHOPHYSIOLOGY: ANALYSIS AND APPLICATION OF THE NURSING PROCESS 3 Credit Hours**

Enhances the understanding of pathophysiologic processes, the management of disease states, and analysis of related concepts of pharmacology, symptomology and lab interpretation of data for the purpose of identification of priority nursing diagnosis and formulation of care plans appropriate for individual disease processes.

**Prerequisite:** Minimum C grade in NURS 20020, NURS 20030, NURS 30035 and NURS 30060; and nursing major; and junior or senior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**NURS 35040 COMPLEMENTARY AND INTEGRATIVE HEALTH 3 Credit Hours**

(Repeatable for credit) Explores and critically analyzes complementary and integrative health therapies, products, and supplements primarily being used in the United States through the review of evidenced based research and case studies. Synthesizing the exploration of complementary and integrative health practices that are often used in conjunction with traditional Western medicine, students examine the evolving Integrative Health, which has also been called Integrative Medicine, or Complementary and Alternative Medicine.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**NURS 35050 ADVANCED MEDICAL SURGICAL SIMULATION 3 Credit Hours**

Provides students opportunities for critical thinking and decision making through the use of human patient simulation. Theory, content and hands on application advance students' clinical judgement and competence in caring for patients of advancing complexity and those in crisis situations.

**Prerequisite:** NURS 20030 with a minimum C grade.

**Corequisite:** NURS 30010, NURS 30020 and NURS 30035.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 1.5 lecture, 1.5 lab

**Grade Mode:** Standard Letter

**NURS 35060 CRITICAL THINKING AND TEST TAKING SKILLS 2 Credit Hours**

(Repeatable once for credit) The focus of this course is to understand the art of analyzing and evaluating one's thinking. The focus is on how a person thinks and how they can improve their thinking. This course is designed for nursing students seeking to expand their critical thinking ability and improve studying and test taking skills. This course promotes analysis and evaluation of problem solving abilities and requires self-directed, self-disciplined and corrective thinking. The student will explore and develop individual plans with the course faculty person to improve their studying and test taking skills.

**Prerequisite:** Enrolled in the college of nursing.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**NURS 35065 STUDENTS HELPING STUDENTS: A STUDENT MENTORING COURSE 2 Credit Hours**

(Repeatable once for credit) This course is designed for the junior or senior student that has demonstrated a strong understanding of one or more course topics and who desires to function in the role of a mentor or tutor. Throughout the course the student will utilize skills learned in the course while engaging in a mentor tutor relationship with students of a lower class rank in need of mentoring and or tutoring.

**Prerequisite:** Nursing major; and junior and senior standing.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**NURS 35070 NURSING ETHICS IN CLINICAL PRACTICE 3 Credit Hours**

This course focuses on the principles and the theories related to the ethical challenges faced by today's health care professionals. It explores the ethical obligations of the professional nurse's role as a member of the interdisciplinary team, provider, leader and manager of care. This course further emphasizes methods of analyzing and resolving moral dilemmas using clinical decision making skills that can be applied to the clinical setting.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**NURS 35075 INTRODUCTION TO FORENSIC NURSING 3 Credit Hours**

This course will explore the basic concepts and foundations of forensic nursing in both criminal and civil contexts. The different roles and responsibilities of the forensic nurse in the investigation of violence and trauma, as well as the integration of scientific, ethical and legal principles into the acute care and community nursing practice will be examined.

Providing specialized, holistic care of victims and families will be stressed. Students will review victimology, evaluate prevalent population-based health issues and explore forensic nursing interventions.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**NURS 35080 CONTEMPORARY ISSUES IN NURSING PRACTICE AND HEALTH CARE 3 Credit Hours**

This course provides the student an opportunity to focus on diverse contemporary issues in professional Nursing practice and the health care environment. Content promotes critical thinking pertaining to emerging issues in society and how the topics impact practicing nurses, the nursing profession, the delivery of care, and the health-wellness continuum. This course will encompass evidence-based theory, which correlated with the relevant issues and explore avenues for improved health care.

**Prerequisite:** NURS 20950.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**NURS 40003 COMPARATIVE HEALTH CARE: NURSING IN NORTHERN IRELAND 2-3 Credit Hours**

Includes a 2 week intensive study abroad that is conducted in Northern Ireland and includes seminars at the University of Ulster and in select clinical settings. Students examine the cultural, political and economic forces influencing health care and nursing needs; status of nursing education, licensure and practice; and health disparities in Northern Ireland and compare them to the United States. An additional 1 credit hour web-based option is offered the week immediately following the 2 weeks in Northern Ireland for students who choose the 3 credit hour option.

**Prerequisite:** Minimum 2.750 overall GPA; and special approval.

**Schedule Type:** Clinical Laboratory, Seminar

**Contact Hours:** 2-3 other

**Grade Mode:** Standard Letter

**NURS 40005 PROFESSIONAL NURSING DEVELOPMENT 3 Credit Hours**

Course focuses on professional development and the transition from student to graduate nurse, including interviewing techniques and resume preparation. Explores health care economics and policy, political activism, cultural competence, nursing theory, leadership of meetings and managing group dynamics, the future of nursing and health care, nursing practice opportunities, role development, professional nursing organizations, graduate education and specialty certification. This course integrates concepts to prepare students to deliver culturally congruent and appropriate care.

**Prerequisite:** Minimum C grade in NURS 30010 and NURS 30020.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**NURS 40010 NURSING OF THE CRITICALLY ILL 4 Credit Hours**

Holistic approach to assessing, intervening and evaluating critically ill persons. Nursing practice in critical care settings with diverse populations. This course integrates concepts to prepare students to deliver culturally congruent and appropriate care. Students must be admitted to the Professional Nursing Sequence to be able register for this course.

**Prerequisite:** Minimum C grade in NURS 30010, NURS 30020, NURS 30025, NURS 30035 and NURS 30050.

**Schedule Type:** Clinical Laboratory, Laboratory, Lecture

**Contact Hours:** 2 lecture, .8 lab, 4 other

**Grade Mode:** Standard Letter



**NURS 40020 COMMUNITY HEALTH NURSING (DIVG) 4 Credit Hours**

Concepts of community health nursing with emphasis on health promotion and prevention of population-based health problems, locally and globally. This course integrates concepts to prepare students to deliver culturally congruent and appropriate care in the United States and across the world. Students will gain insight into the health problems facing diverse populations. Students will use an epidemiological approach to assess community health and identify subgroups within the community or globally that are at risk for disease, disability, and premature death. Students must be admitted to the Professional Nursing Sequence to be able to register for this course. Students are responsible for their transportation to field experience.

**Prerequisite:** Minimum C grade in NURS 30010, NURS 30020, NURS 30025, NURS 30035 and NURS 30050.

**Corequisite:** NURS 40030.

**Schedule Type:** Clinical Laboratory, Laboratory, Lecture

**Contact Hours:** 2.2 lecture, .4 lab, 4 other

**Grade Mode:** Standard Letter

**Attributes:** Diversity Global

**NURS 40025 PROFESSIONAL AND EVIDENCE-BASED PRACTICE 3 Credit Hours**

This course introduces the student to the process of identifying quality research studies and applying the findings to nursing practice to improve patient outcomes. This course also focuses on professional development and the transition from student to graduate nurse, including interviewing techniques and resume preparation. Explores health care economics and policy, political activism, cultural competence, nursing theory, leadership of meetings and managing group dynamics, the future of nursing and health care, nursing practice opportunities, role development, professional nursing organizations, graduate education and specialty certification. Students have the opportunity to attend a professional nursing organization meeting. Students must be admitted to the Professional Nursing Sequence to be able to register for this course.

**Prerequisite:** NURS 30010 and NURS 30050 with a minimum C grade; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**NURS 40030 PSYCHIATRIC MENTAL HEALTH NURSING 4 Credit Hours**

Focuses on the development of therapeutic relationships with individuals, families and vulnerable populations across the lifespan who have potential and or identified mental health needs. Students will learn and apply theory about mental health and illness and demonstrate psychiatric nursing skills and interventions in caring for persons living with mental illness. This course integrates concepts to prepare students to deliver culturally congruent and appropriate care.

**Prerequisite:** Minimum C grade in NURS 30010, NURS 30020, NURS 30025, NURS 30035 and NURS 30050.

**Schedule Type:** Clinical Laboratory, Laboratory, Lecture

**Contact Hours:** 2 lecture, .4 lab, 4 other

**Grade Mode:** Standard Letter

**NURS 40045 INTEGRATION OF LEADERSHIP AND MANAGEMENT IN NURSING (ELR) 6 Credit Hours**

Course provides students with the knowledge and skills for a beginning leadership position (team leader, module leader and primary nurse), applicable to the care of patients in a health care environment. Course provides students with opportunities to synthesize their nursing knowledge and collaborate with their clinical preceptor in preparation for their professional nursing role. This course integrates concepts to prepare students to deliver culturally congruent and appropriate care. Students must be admitted to the Professional Nursing Sequence to be able to register for this course.

**Prerequisite:** Minimum C grade in NURS 30010, NURS 30020, NURS 30025 and NURS 30035; and senior standing.

**Schedule Type:** Clinical Laboratory, Laboratory, Lecture

**Contact Hours:** 2.75 lecture, .2 lab, 9.5 other

**Grade Mode:** Standard Letter

**Attributes:** Experiential Learning Requirement

**NURS 40075 INFORMATION AND PATIENT CARE TECHNOLOGY FOR HEALTHCARE PROFESSIONALS 3 Credit Hours**

(Cross-listed with RSPC 40075). Focuses on the use of information management and information systems, technology and the human technology interface utilized in healthcare. Students taking this course must be registered nurses.

**Prerequisite:** Nursing major.

**Pre/corequisite:** A minimum C grade in NURS 41000.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**NURS 40085 INQUIRY AND RESEARCH FOR PROFESSIONAL NURSING PRACTICE 3 Credit Hours**

Introduction to clinical inquiry and research for the professional nurse. Theoretical frameworks appropriate to nursing are addressed in relation to research development. A nursing Evidence Based Practice project is developed.

**Pre/corequisite:** MATH 10041 or PSYC 21621; or SOC 32220 and 32221; GEOG 39002, BMRT 21004, MATH 30011, MGMT 24056 and PH 30002; and nursing major.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**NURS 40089 INTERNATIONAL HEALTH CARE POLICES (ELR) (WIC) 3 Credit Hours**

This course looks at the organizational and societal context in which health care is delivered in specific countries worldwide. A historical perspective is developed early in the semester. Building on this, the course explores existing health care policies in a specific population or county. This course further examines existing health networks, forms of care delivery, consumer needs and economics and funding for an identified population.

**Prerequisite:** NURS 20030; and special approval.

**Schedule Type:** Seminar

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Experiential Learning Requirement, Writing Intensive Course

**NURS 40092 NURSING PRACTICE INTERNSHIP (ELR) 1-4 Credit Hours**

Opportunity for professional nursing practice is expanded to a selected population with complex health care needs. Focus is on increasing theoretical knowledge base and using knowledge in complex care situations with patients and their families. Clinical practice will be guided by a clinical preceptor.

**Prerequisite:** NURS 30035 with a minimum C grade; and special approval.

**Schedule Type:** Clinical Laboratory

**Contact Hours:** 3-26 other

**Grade Mode:** Satisfactory/Unsatisfactory

**Attributes:** Experiential Learning Requirement

**NURS 40872 INTRODUCTION TO EVIDENCE BASED PRACTICE 3 Credit Hours**

This course introduces the student to the process of identifying quality research studies and applying the findings to nursing practice to improve patient outcomes. This course integrates concepts to prepare students to deliver culturally congruent and appropriate care. Students must be admitted to the Professional Nursing Sequence to be able register for this course.

**Prerequisite:** NURS 31010 or PH 30002 or PSYC 21621 or SOC 32220; and NURS 20030 and MATH 10041.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**NURS 40873 INTRODUCTION TO EVIDENCE BASED PRACTICE FOR REGISTERED NURSES 3 Credit Hours**

This course introduces the student to the process of identifying quality research studies and applying the findings to nursing practice to improve patient outcomes.

**Pre/corequisite:** NURS 41000.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**NURS 41000 CONCEPTS AND ISSUES FOR PROFESSIONAL NURSING PRACTICE 3 Credit Hours**

Focuses on nursing concepts and theory, nursing process and the history of nursing as it relates to the development of professional nursing and the role of the professional nurse. Students taking this course must be registered nurses.

**Prerequisite:** Nursing major; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**NURS 41095 SPECIAL TOPICS 2-4 Credit Hours**

(Repeatable for credit) Scheduled topics of interest to faculty and students. Topics to be announced when scheduled.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 2-4 lecture

**Grade Mode:** Standard Letter

**NURS 41096 INDIVIDUAL INVESTIGATION 2-4 Credit Hours**

(Repeatable for credit) Designed for the student interested in exploration and research of material not covered in required nursing courses.

**Prerequisite:** None.

**Schedule Type:** Individual Investigation

**Contact Hours:** 4 other

**Grade Mode:** Standard Letter

**NURS 42000 LEADERSHIP AND MANAGEMENT FOR PROFESSIONAL NURSING PRACTICE 3 Credit Hours**

Allows the registered nurse (RN) to utilize personal and professional knowledge and experiences in the study of leadership and management. Facilitates discovery of how nursing and leadership theories define and enhance practice. Assists the RN in analyzing the relationship between nursing, the professional nurse's leadership management roles, and the articulation between nursing research and practice. Students taking the course must be registered nurses.

**Prerequisite:** Nursing major.

**Pre/corequisite:** NURS 41000 with a minimum C grade.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**NURS 43001 HEALTH PROMOTION IN PROFESSIONAL NURSING PRACTICE (ELR) 3 Credit Hours**

This course utilizes the nursing process to explore health promotion and disease prevention across the lifespan and healthcare settings. Theories and models are used to understand health behaviors. The course includes the role of the nurse; national health objectives; health literacy; education; counseling; transcultural considerations; factors affecting health promotion; and specific health promotion strategies. Student must be a registered nurse.

**Prerequisite:** Nursing major; and special approval.

**Schedule Type:** Clinical Laboratory, Lecture

**Contact Hours:** 2 lecture, 3 other

**Grade Mode:** Standard Letter

**Attributes:** Experiential Learning Requirement

**NURS 44001 POPULATION-BASED NURSING FOR PROFESSIONAL NURSING PRACTICE (DIVG) 3 Credit Hours**

Focuses on concepts of population-based nursing practice with emphasis on improving the health of diverse communities and populations, both locally and around the world. Students will gain insight into the health disparities facing diverse populations and cultures in the United States and throughout the world. Students will use an epidemiologic approach to assess community health and identify subgroups within the community or globally that are at risk for disease, disability, and premature death. Students taking this course must be registered nurses.

**Prerequisite:** Nursing major.

**Pre/corequisite:** A minimum C grade in NURS 43001.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Diversity Global

**NURS 44002 GLOBAL HEALTH IMMERSION: GENEVA, SWITZERLAND  
3 Credit Hours**

(Slashed with NURS 54002) Participants explore a number of health concerns, policies, and challenges with global importance and implications. Students will investigate current global health policies and themes, and become familiar with experts in global health including governmental and nongovernmental organizations and multinational agencies. Presentation are given by experts currently working in various regions of the world to solve global problems such as HIV AIDS, post-war trauma, tuberculosis, and non-communicable disease prevention, and environmental contamination.

**Prerequisite:** Nursing major; and sophomore standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**NURS 45000 HEALTH MAINTENANCE AND RESTORATION FOR  
PROFESSIONAL NURSING PRACTICE 3 Credit Hours**

Focuses on issues related to health maintenance and restoration for individuals and families experiencing illness. Students taking this course must be registered nurses.

**Prerequisite:** Nursing major.

**Pre/corequisite:** NURS 43001 with a minimum C grade.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**NURS 45010 HEALTHCARE POLICY AND DELIVERY SYSTEMS 3  
Credit Hours**

Web-based course looks at the organizational and societal context in which health care is delivered in the U.S. An historical perspective is developed early in the semester. Building on this, the course explores existing health care policy and delivery systems, including legislation, the professional disciplines, organizations and health networks, forms of care delivery, consumer needs, and economics and funding. The ability of the current health care system to serve all segments of the U.S. population is examined in depth. Global health needs are examined as a minor theme. Ends with a focus on future forms of delivery that would improve the health care status of the American population as a whole.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**NURS 45020 CRITICAL APPLICATION OF NURSING IN  
PHARMACOLOGY 3 Credit Hours**

Enhances application and analysis of pharmacology in nursing. Explores assessment of therapeutic effect, side effects and adverse reactions of medications. Analyzes pathophysiological symptoms, lab values and nursing indicators in order to allow students to initiate appropriate nursing actions as related to pharmacology. Further, course presents teaching skills needed to enhance patient education and pharmacologic literacy.

**Prerequisite:** NURS 20020 and 20030; and nursing major; and junior or senior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**NURS 45030 PROFESSIONAL LITERACY: SKILLS TO CAREER  
ADVANCEMENT 3 Credit Hours**

Explores career and professional growth through processes such as writing, publishing, presenting and portfolio development.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**NURS 45050 LEGAL ISSUES FOR NURSES 3 Credit Hours**

This online course explores legal concepts and regulations that guide nursing practice and examines concepts, theories, and values applied in decision making that are related to a variety of legal concepts in nursing practice and health concepts.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**NURS 45060 NCLEX REVIEW PREPARATION 3 Credit Hours**

(Repeatable credit) This course reviews nursing concepts and content important for a registered nurse to make safe clinical judgments. Specific study strategies for passing the national licensure exam will be reviewed. Students will practice answering NCLEX style questions. Students must be admitted to the Professional Nursing Sequence to be able register for this course.

**Prerequisite:** NURS 30035; and senior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**NURS 45070 HEALTH CARE NEEDS FOR INDIVIDUALS WITH  
DISABILITIES 3 Credit Hours**

(Slashed with NURS 55070) Healthcare Needs for Individuals with Disabilities focuses on the developmental, physical, and mental needs of the individual with disabilities. Strategies to identify and safely manage the unique needs of individuals with disabilities will be provided. Students must be admitted to the Professional Nursing Sequence to be able register for this course.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**NURS 45075 NCLEX SUCCESS 2 Credit Hours**

This course reviews nursing concepts and content important for a registered nurse to make safe, clinical judgments. Specific study strategies for passing the national licensure exam will be reviewed. Students will practice answering NCLEX style questions. Students must be admitted to the Professional Nursing Sequence to be able register for this course.

**Prerequisite:** Senior standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**NURS 45080 INTERDISCIPLINARY APPROACHES TO PALLIATIVE AND END OF LIFE CARE 3 Credit Hours**

This course focuses on the care of people with a life-limiting illness, their families, and caregivers. Students will explore key concepts related to end of life care including the history and philosophical underpinnings of the hospice movement, spiritual, cultural, psychosocial, physical, legal, ethical and social considerations of dying in a contemporary society.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**NURS 46000 HEALTH CARE POLICY 3 Credit Hours**

Examines the organizational and societal context in which health care is delivered. Existing health care policy and delivery systems are examined, including historical perspectives, legislation, professional disciplines, organizations, health networks, forms of care delivery, consumer needs, economics, and funding. The ability of the current health care system to serve all segments of the U.S. population is examined in depth, as well as future forms of health care delivery. Global perspectives are also studied. Student must be Registered Nurse.

**Pre/corequisite:** NURS 43001.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**NURS 47000 CAPSTONE CLINICAL FOR PROFESSIONAL NURSING PRACTICE (WIC) 3 Credit Hours**

Allows RNs to apply previously learned nursing theory and clinical knowledge with their baccalaureate education in the identification and implementation of a scholarly nursing project. This project utilizes, but is not limited to, previously learned knowledge of leadership skills, principles of teaching/learning, health care policy, change process, group process, team building, collaboration, healthcare policy and delivery systems, quality improvement, evidence-based care, diversity, nursing roles, information technology and systems, population-based care and ethical/legal issues. Students taking this course must be registered nurses.

**Prerequisite:** NURS 40075 and 41000.

**Pre/corequisite:** NURS 40085 and 42000 and 44001 and 45000 and 46000 and nursing major.

**Schedule Type:** Clinical Laboratory, Lecture

**Contact Hours:** 2 lecture, 3 other

**Grade Mode:** Standard Letter

**Attributes:** Writing Intensive Course

**NURS 47001 CAPSTONE FOR PROFESSIONAL NURSING PRACTICE (WIC) 3 Credit Hours**

Allows RNs to apply previously learned nursing theory and clinical knowledge with their baccalaureate education in the identification and implementation of a scholarly nursing project. This project utilizes, but is not limited to, previously learned knowledge of leadership skills, principles of teaching learning, health care policy, change process, group process, team building, collaboration, healthcare policy and delivery systems, quality improvement, evidence-based care, diversity, nursing roles, information technology and systems, population-based care and ethical legal issues. Students taking this course must be registered nurses.

**Prerequisite:** NURS 40075 and NURS 41000.

**Pre/corequisite:** NURS 40085, NURS 42000, NURS 43001, NURS 44001, NURS 45000 and NURS 46000; and nursing major.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Writing Intensive Course

**NURS 50003 COMPARATIVE HEALTH CARE: NURSING IN NORTHERN IRELAND 2-3 Credit Hours**

Includes a 2 week intensive study abroad that is conducted in Northern Ireland and includes seminars at the University of Ulster and in select clinical settings. Students examine the cultural, political and economic forces influencing health care and nursing needs; status of nursing education, licensure and practice; and health disparities in Northern Ireland and compare them to the United states. An additional 1 credit hour web-based option is offered the week immediately following the 2 weeks in Northern Ireland for students who choose the 3 credit hour option.

**Prerequisite:** Minimum 3.000 overall GPA; and graduate standing; and special approval.

**Schedule Type:** Clinical Laboratory, Seminar

**Contact Hours:** 2-3 other

**Grade Mode:** Standard Letter

**NURS 50093 VARIABLE TOPIC WORKSHOP IN NURSING 1-5 Credit Hours**

(Repeatable 15 times for credit) Topics of special interest to intensify knowledge in a particular area of graduate nursing.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Workshop

**Contact Hours:** 1-5 other

**Grade Mode:** Satisfactory/Unsatisfactory

**NURS 54002 GLOBAL HEALTH IMMERSION: GENEVA, SWITZERLAND 3 Credit Hours**

(Slashed with NURS 44002) Participants explore a number of health concerns, policies and challenges with global importance and implications. Students investigate current global health policies and themes, and become familiar with experts in global health including governmental and nongovernmental organizations, and multinational agencies. Presentations are given by experts working in various regions of the world to solve global problems such as HIV/AIDS, post-war trauma, tuberculosis, refugee health, non-communicable disease prevention, and environmental contamination.

**Prerequisite:** Graduate standing in nursing major.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**NURS 55070 HEALTH CARE NEEDS FOR INDIVIDUALS WITH DISABILITIES 3 Credit Hours**

(Slashed with NURS 45070) Healthcare Needs for Individuals with Disabilities focuses on the developmental, physical, and mental needs of the individual with disabilities. Strategies to identify and safely manage the unique needs of individuals with disabilities will be provided.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**NURS 60010 ADVANCED NURSING INFORMATICS 3 Credit Hours**

This course focuses on the role of informatics in advanced nursing practice through examination and application of theories, trends, and policies for generation, storage, retrieval, and analysis of health information. The use of information structures, processes, and technology to support clinical decision-making to achieve patient and healthcare outcomes is examined.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**NURS 60012 ADVANCED MENTAL HEALTH ASSESSMENT AND PSYCHOPATHOLOGY 4 Credit Hours**

Focuses on developing skills related to conducting a holistic mental health assessment and making psychiatric diagnoses. Develops understanding of psychopathology, which is integral to assessment and diagnosis processes.

**Prerequisite:** Nursing major; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 4 lecture

**Grade Mode:** Standard Letter

**NURS 60014 LEADERSHIP IN NURSING AND HEALTH CARE MANAGEMENT 3 Credit Hours**

This course provides an introduction to Nursing and Health Care Management with a focus on the nursing and health care manager competencies and skills. Concepts explored include leadership and management theories as they relate to the functions and responsibilities of nursing and health care administrator roles, analysis of leadership style, and professional competencies for nurses and health care managers and administrators.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**NURS 60015 ADVANCED HEALTH ASSESSMENT 3 Credit Hours**

Advanced Health Assessment comprises foundational skills including the comprehensive history, physical and psychological assessment of the patient. Students apply the diagnostic reasoning process to develop a comprehensive plan of care for patients in a variety of settings.

**Prerequisite:** Graduate standing.

**Pre/corequisite:** NURS 60045.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**NURS 60020 LEGAL AND REGULATORY MANAGEMENT FOR NURSE ADMINISTRATORS 3 Credit Hours**

This course focuses on legal and regulatory structures and issues and explores the impact of these topics on health care environments. Concepts and processes of accreditation, magnet designation, licensure and government regulation will be explored.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**NURS 60024 HEALTH CARE ORGANIZATION STRUCTURE AND BEHAVIOR 3 Credit Hours**

This course focuses on the structures and behaviors common in health care organizations. Historical perspectives, organizational theories, and types and characteristics of health care organizations are explored.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**NURS 60025 HEALTH POLICY AND ADVANCED NURSING PRACTICE 3 Credit Hours**

This course focuses on cost, quality and access as fundamental concepts of health policy. Students will analyze historical and current policy initiatives that influence health care funding and delivery and consider the role of government, organizations, the discipline of nursing, health care leaders, and individuals in setting health policy. The impact of policies on nursing practice, health care delivery, and quality of life for citizens will be explored. Students will examine the concept and practice of advocacy from a nursing perspective.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**NURS 60045 PATHOPHYSIOLOGY FOR THE ADVANCED PRACTICE REGISTERED NURSE 3 Credit Hours**

Provides graduate nursing students with a theoretic foundation of human physiology and the phenomena that produce alterations or pathology in human physiologic function; and an understanding of the basis of disease processes across the lifespan.

**Prerequisite:** Graduate standing in nursing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**NURS 60051 NEUROBIOLOGY AND PSYCHOPHARMACOLOGY OF MAJOR PSYCHIATRIC DISORDERS 4 Credit Hours**

Focuses on the neurobiology of severe and persistent psychiatric disorders. Addresses fundamental principles underlying psychopharmacology related to these disorders.

**Prerequisite:** Graduate standing in the nursing.

**Schedule Type:** Lecture

**Contact Hours:** 4 lecture

**Grade Mode:** Standard Letter



**NURS 60101 THEORETICAL BASIS FOR NURSING PRACTICE I 3 Credit Hours**

This course will be used to study concepts and theories common to all specialty areas of nursing. It provides a firm basis for advanced clinical nursing practice. Progress in theory development for nursing practice is addressed.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**NURS 60110 ADULT GERONTOLOGY CLINICAL NURSE SPECIALIST I 3 Credit Hours**

(Slashed with NURS 80110) Introduction to the clinical nurse specialist role with adults and older adults experiencing common health and illness conditions. The focus is on developing a foundation for evidence-based, patient-centered advanced nursing care, including teaching, coaching and identification and management of symptoms, functional problems and risk behaviors. The scientific and theoretical basis for interventions to achieve clinical outcomes in health promotion and illness care for adults and older persons across the care continuum are explored. This course is taken concurrently with NURS 61192 for clinical application. Pre/ Corequisite: NURS 61192.

**Prerequisite:** NURS 60015; and graduate standing in adult gerontology clinical nurse specialist (AGCN) concentration or adult-gerontology clinical nurse specialist (C844) certificate.

**Corequisite:** NURS 60441 and NURS 60506.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**NURS 60120 ADULT/GERONTOLOGY PRIMARY CARE I 3 Credit Hours**

Introduction to the care of adult-gero primary care patients. Identification and examination of evidence-based primary health care problems, needs, and interventions. The course will focus on biological and behavioral parameters at primary, secondary and tertiary levels of prevention.

**Prerequisite:** NURS 60015 and NURS 60441; and graduate standing.

**Corequisite:** NURS 61292.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**NURS 60125 FAMILY AND ADULT GERONTOLOGY NURSE PRACTITIONER ROLE 1 Credit Hour**

This course continues to develop competencies of the Family and Adult-Gero Nurse Practitioner including requirements for practice, and prescribing. Quality of health care delivery is examined.

**Prerequisite:** NURS 60120 and NURS 61292; and graduate standing.

**Corequisite:** NURS 61892.

**Schedule Type:** Lecture

**Contact Hours:** 1 lecture

**Grade Mode:** Standard Letter

**NURS 60129 ADULT GERONTOLOGY ACUTE CARE NURSE PRACTITIONER I 3 Credit Hours**

Course provides an introduction to the care of the adult and gerontology patient with chronic illness, acute illness and acute exacerbation of chronic illness. Covers identification and examination of evidence-based primary and acute health care problems, needs and interventions.

**Prerequisite:** NURS 60015; and graduate standing.

**Corequisite:** NURS 61092.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**NURS 60130 ADULT GERONTOLOGY ACUTE CARE NURSE PRACTITIONER II 1 Credit Hour**

Course introduces the acute care nurse practitioner student to the role of inpatient medical management, utilizing evidence-based practice and working with interdisciplinary team members. The course provides students with an experience caring for the under-served in the hospital and-or community setting. Additionally, students participate in a simulation workshop, demonstrating common inpatient procedures. Students are introduced to the role of the nurse practitioner, the professional responsibilities and stewardship.

**Prerequisite:** NURS 60129 and NURS 60441 and NURS 61092; and graduate standing.

**Corequisite:** NURS 61392.

**Schedule Type:** Lecture

**Contact Hours:** 1 lecture

**Grade Mode:** Standard Letter

**NURS 60140 WOMEN'S HEALTH CARE NURSE PRACTITIONER I 2 Credit Hours**

Development of foundational basis for competent clinical practice in women's health is the basis for this course. Emphasis is placed on the menstrual cycle, fertility control, and normal and abnormal gynecological conditions. Course also emphasizes the coordination of care needed within the clinical setting through the diagnostic, planning and evaluational components pertinent to clinical practice.

**Prerequisite:** Graduate standing.

**Pre/corequisite:** NURS 60015.

**Corequisite:** NURS 61492.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**NURS 60151 INDIVIDUAL PSYCHOTHERAPY 3 Credit Hours**

Basic elements related to individual psychotherapy, as well as various theoretical approaches to individual psychotherapy are examined.

**Prerequisite:** NURS 60012 and NURS 60051; and nursing major; and graduate standing.

**Corequisite:** NURS 61592.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**NURS 60160 PRIMARY CARE PEDIATRICS 3 Credit Hours**

Addresses the care of pediatric patients in a primary care setting. Focus is on the acute illnesses and management of age and developmentally appropriate anticipatory guidance for infants and children.

**Prerequisite:** NURS 60015 and NURS 60441; and graduate standing.

**Corequisite:** NURS 61692.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**NURS 60170 PEDIATRIC ASSESSMENT FOR ADVANCED PRACTICE NURSE 3 Credit Hours**

Initial pediatric assessment course emphasizes primary care of the infants, children and teens with a holistic approach to well child development, health promotion, illness prevention, and management of developmental challenges with a family centered approach.

**Prerequisite:** Graduate standing.

**Pre/corequisite:** NURS 60015.

**Corequisite:** NURS 61792.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**NURS 60199 THESIS I 2-6 Credit Hours**

Thesis students must register for a total of 6 credit hours, 2 to 6 hours in a single semester distributed over several semesters if desired.

Guidelines are established by the College of Nursing.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Masters Thesis

**Contact Hours:** 2-6 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**NURS 60210 ADULT GERONTOLOGY CLINICAL NURSE SPECIALIST II 3 Credit Hours**

Application and further development of the clinical nurse specialist (CNS) role introduced in NURS 60110, with continued emphasis on direct care competencies for adults and older adults experiencing common health and illness conditions in a variety of settings. Evaluation of care outcomes including quality and safety are examined. This course is taken concurrently with NURS 62192 for clinical application.

**Prerequisite:** NURS 60110 and NURS 61192; and graduate standing.

**Pre/corequisite:** NURS 60403.

**Corequisite:** NURS 62192.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**NURS 60220 PRIMARY CARE II: CHRONICALLY ILL ADULTS 3 Credit Hours**

Focus of this course is to establish a knowledge base of appropriate collaboration and consultation within a multidisciplinary approach to maximize the effectiveness of health care systems and community services in the health care of adults.

**Prerequisite:** NURS 60125 and NURS 61892; and graduate standing.

**Corequisite:** NURS 62292.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**NURS 60230 ADULT GERONTOLOGY ACUTE CARE NURSE PRACTITIONER III 4 Credit Hours**

Students apply techniques for critical care evaluation and treatment for the adult gerontology patient, specifically, in the acute care setting. Students are instructed about pharmacotherapeutic and non-pharmacotherapeutic treatment for acute, acute on chronic and chronic illness. This is accomplished via classroom lecture, case studies and simulation case studies.

**Prerequisite:** NURS 60130 and NURS 61392; and graduate standing.

**Corequisite:** NURS 62392.

**Schedule Type:** Lecture

**Contact Hours:** 4 lecture

**Grade Mode:** Standard Letter

**NURS 60240 WOMEN'S HEALTH CARE NURSE PRACTITIONER II 2 Credit Hours**

The primary purpose of Women's Health Care Nurse Practitioner II is the application of evidence-based practice and research by advanced practice nurses in the promotion of health and wellness of women during the reproductive years. The emphasis is on normal pregnancy focusing on prevention and health promotion as well as the management of deviations from normal. Clinical assessment skills, including diagnosis, nursing intervention, treatment, and evaluation, will be emphasized and the student is expected to concentrate efforts in attainment and safe execution of skills pertinent to the women during the reproductive years.

**Prerequisite:** NURS 60140, NURS 61492 and NURS 60441; and graduate standing.

**Corequisite:** NURS 62492.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**NURS 60251 FAMILY AND GROUP PSYCHOTHERAPY 3 Credit Hours**

Study of theoretical approaches to advanced psychiatric mental health nursing practice with individuals who are experiencing identified mental health problems. Basic elements related to family and group psychotherapy are examined.

**Prerequisite:** NURS 62592; and graduate standing.

**Corequisite:** NURS 63592.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**NURS 60270 PEDIATRIC NURSE PRACTITIONER I 3 Credit Hours**

Emphasizes the development of competent advanced practice nursing skills and comprehensive knowledge of acute physical and psychosocial illnesses in children including diagnoses, management and evaluation in primary care.

**Prerequisite:** NURS 60015, NURS 60170 and NURS 61792; and graduate standing.

**Corequisite:** NURS 62792.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**NURS 60299 THESIS II 2 Credit Hours**

Thesis students must continue registration each semester until all degree requirements are met.

**Prerequisite:** NURS 60199; and graduate standing; and special approval.

**Schedule Type:** Masters Thesis

**Contact Hours:** 2 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**NURS 60310 ADULT GERONTOLOGY CLINICAL NURSE SPECIALIST III**  
**3 Credit Hours**

Development of clinical nurse specialist (CNS) competencies in the organizational sphere of influence, including analysis of health promotion and care delivery models and their impact on patient health and organizational outcomes. CNS leadership competencies involving consultation, mentoring, coaching, role modeling and education with the interdisciplinary health care team are developed. Strategies for developing and evaluating programs of care based on analysis of professional standards, clinical outcomes and cost effectiveness are addressed. This course is taken concurrently with NURS63192 for clinical application.

**Prerequisite:** NURS 60210 and NURS 62192.

**Corequisite:** NURS 63192.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**NURS 60315 BUDGETARY AND FISCAL MANAGEMENT FOR NURSES**  
**3 Credit Hours**

Examines management of fiscal resources in nursing service settings.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**NURS 60320 ADULT/GERONTOLOGY PRIMARY CARE III** **3 Credit Hours**

Synthesizes an understanding of the transition to the professional role of the primary care nurse practitioner. Integration of practice, theory, leadership and evidence-based practice will all be applied to primary care.

**Prerequisite:** NURS 60220 and 62292; and graduate standing.

**Corequisite:** NURS 63692.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**NURS 60325 PRIMARY CARE: FAMILY HEALTH AND CHRONIC ILLNESS**  
**4 Credit Hours**

The content of this course is organized around common health issues, needs and problems of women and children. Additional focus is placed on health promotion and disease detection as related to pediatric primary care, preconception, pregnancy, and post-partum patients. The content of this course is organized around common health issues, needs and problems of women and children. Additional focus is placed on health promotion and disease detection as related to pediatric primary care, preconception, pregnancy, and post-partum patients.

**Prerequisite:** NURS 60220 and NURS 62292; and graduate standing.

**Corequisite:** NURS 63292.

**Schedule Type:** Lecture

**Contact Hours:** 4 lecture

**Grade Mode:** Standard Letter

**NURS 60330 ADULT GERONTOLOGY ACUTE CARE NURSE PRACTITIONER IV** **2 Credit Hours**

Students apply therapeutic measures for patients with specialty needs as they relate to acute, acute on chronic and chronic illness. Additionally, students review therapeutic conversation with patient and patient's family via case studies and role-play. Students synthesize information on billing, coding, credentialing and certification requirements.

**Prerequisite:** NURS 60230 and NURS 62392; and graduate standing.

**Corequisite:** NURS 63392.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**NURS 60340 WOMEN'S HEALTH CARE NURSE PRACTITIONER III** **1 Credit Hour**

Focus on the legal and business aspects associated with refinement of women's health nurse practitioner skills and expansion of knowledge related to women's health in selected areas of concentration.

**Prerequisite:** NURS 60240, NURS 62492 and NURS 60506; and graduate standing.

**Corequisite:** NURS 63492.

**Schedule Type:** Lecture

**Contact Hours:** 1 lecture

**Grade Mode:** Standard Letter

**NURS 60353 INDIVIDUAL, ORGANIZATION AND COMMUNITY CONSULTATION** **3 Credit Hours**

(Cross-listed with NURS 80353) Study of the theoretical approaches to psychiatric mental health advanced practice nursing with organizations and communities. Emphasis is on learning consultation and liaison skills. Students will develop skills in performing a community needs assessment and organizational analysis. Pre/

**Prerequisite:** NURS 60251; and graduate standing.

**Corequisite:** NURS 63592.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**NURS 60370 PEDIATRIC NURSE PRACTITIONER II** **1 Credit Hour**

Focuses on continued development of advanced practice nursing assessment skills for well and-or acute care of infants, children and adolescents.

**Prerequisite:** NURS 60270 and NURS 62792.

**Corequisite:** NURS 63792.

**Schedule Type:** Lecture

**Contact Hours:** 1 lecture

**Grade Mode:** Standard Letter

**NURS 60372 ADVANCED NURSING CARE OF THE CHRONICALLY ILL CHILD** **3 Credit Hours**

Emphasizes the development of competent advanced practice nursing skills and comprehensive knowledge of chronic illness-conditions in children, including diagnoses, management and evaluation in primary care. Concepts of chronic illness and interventions for families are explored.

**Prerequisite:** NURS 60370 and NURS 63792; and graduate standing.

**Corequisite:** NURS 63992.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**NURS 60403 METHODS OF INQUIRY 3 Credit Hours**

Surveys types of research designs and methods that produce evidence contributing to positive patient outcomes. For each design the student learns essential elements, appropriate use and the criteria for rigor within the context of patient outcomes.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**NURS 60440 WOMEN'S HEALTH CARE NURSE PRACTITIONER IV 2 Credit Hours**

Further development of a foundation for competent clinical practice within a health care setting. Introduces the student to the practice of primary health care of women including premenopausal and menopausal women. Included are principles of growth and development, health promotion, disease prevention and management of common acute and chronic health problems. Emphasis is placed on the biological, psychological and sociocultural aspects of care. Pathophysiology, assessment and diagnostic techniques specific to acute and common problems are stressed. Nursing strategies related to health problems used to enhance, maintain and restore health are emphasized. Also emphasized are the coordination of care needed within the clinical setting, collaboration and use of community resources.

**Prerequisite:** NURS 60340 and NURS 63492; and graduate standing.

**Corequisite:** NURS 64892.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**NURS 60441 PHARMACOLOGY FOR ADVANCED PRACTICE NURSING 3 Credit Hours**

A survey course addressing the fundamental principles of medication prescribing and administration necessary for nurses in advanced practice. Course addresses pharmacodynamics, pharmacokinetics and pharmacotherapeutics.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**NURS 60470 PEDIATRIC NURSE PRACTITIONER III 2 Credit Hours**

Focus on synthesizing pediatric nurse practitioner knowledge and skills to provide expert care to a selected population of pediatric clients.

**Prerequisite:** NURS 60372 and NURS 63992; and graduate standing.

**Corequisite:** NURS 64792.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**NURS 60496 INDEPENDENT STUDY 1-4 Credit Hours**

(Repeatable for credit) Readings and/or research supervised by a member of graduate faculty. Provides students the opportunity to explore a content area in depth.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Individual Investigation

**Contact Hours:** 1-4 other

**Grade Mode:** Standard Letter-IP

**NURS 60498 RESEARCH 1-15 Credit Hours**

(Repeatable for credit) Research or individual investigation supervised by a graduate faculty member. Repeat registration permitted. Maximum of 9 credit hours may apply toward degree.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Research

**Contact Hours:** 1-15 other

**Grade Mode:** Standard Letter

**NURS 60506 CLINICAL DIAGNOSTICS FOR ADVANCED PRACTICE NURSES 3 Credit Hours**

Prepares the student in the selection, use and interpretation of laboratory and other diagnostic tests for screening, examination, and therapeutics in the care of ambulatory adults. The course examines comprehensive laboratory and diagnostic techniques and guides the student in safe and appropriate application. The student is be able to use their understanding of complex clinical situations to build specialty nursing knowledge. Throughout this course the student is guided in the demonstration of sound clinical judgment in diagnostic testing for patient assessment and evaluation using case management problems.

**Prerequisite:** Graduate standing.

**Pre/corequisite:** NURS 60015 and NURS 60045.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**NURS 60540 WOMEN'S HEALTH CARE NURSE PRACTITIONER V 2 Credit Hours**

Student performs in the advanced practice role with a specified population of clients of the student's choice in a selected multidisciplinary care setting. Students have an opportunity to test the effectiveness of various strategies inherent within the role of nurse practitioner and to demonstrate leadership through role implementation under the guidance of the faculty. Student must achieve a 'B' (3.0) or higher to complete course.

**Prerequisite:** NURS 60440 and NURS 64892; and graduate standing.

**Corequisite:** NURS 65892.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**NURS 60592 NURSING EDUCATION PRACTICUM 3 Credit Hours**

(Repeatable for credit) Prepares students with practical experiences in curriculum design, implementation, evaluation, and instruction with a master educator in the academic and or staff development setting.

**Prerequisite:** NURS 60601 and NURS 60602 and NURS 60605; and graduate standing.

**Schedule Type:** Lecture, Practical Experience

**Contact Hours:** 1 lecture, 10 other

**Grade Mode:** Standard Letter

**NURS 60601 CURRICULUM AND INSTRUCTION IN NURSING EDUCATION 3 Credit Hours**

For master's enrolled or master's prepared nurses learning to teach and facilitate critical thinking in the areas of curriculum planning, design, development, implementation and evaluation in nursing education in the academic and staff development settings.

**Prerequisite:** Graduate standing.

**Pre/corequisite:** NURS 60015 and NURS 60101.

**Schedule Type:** Laboratory, Lecture

**Contact Hours:** 1 lecture, 4 lab

**Grade Mode:** Standard Letter

**NURS 60602 ROLES AND EVALUATION FOR NURSING EDUCATION CURRICULA 3 Credit Hours**

For master's enrolled or master's prepared nurses focusing on theory, history and techniques of evaluation and testing for nurse educators in academic and staff development settings. Faculty and student roles, and legal and ethical issues are addressed.

**Prerequisite:** NURS 60601; and graduate standing.

**Schedule Type:** Laboratory, Lecture

**Contact Hours:** 1 lecture, 4 lab

**Grade Mode:** Standard Letter

**NURS 60605 NURSING EDUCATION WITH TECHNOLOGY 2 Credit Hours**

This course is designed for master's enrolled or master's prepared students with a focus in nursing education. Theory, concepts and evidence are introduced to support the use of technology in nursing education. Students gain an understanding of how to use and integrate a variety of technology tools as they prepare to deliver educational offerings in academic and staff development nursing settings.

**Prerequisite:** NURS 60601; and graduate standing.

**Corequisite:** NURS 60602 and NURS 60607.

**Schedule Type:** Laboratory, Lecture

**Contact Hours:** 1 lecture, 2 lab

**Grade Mode:** Standard Letter

**NURS 60607 CLINICAL NURSING AND EDUCATION ISSUES IN A SPECIALTY AREA 1 Credit Hour**

This course focuses on exploration of pertinent issues applicable to clinical practice. Students will develop in depth knowledge and expertise in their area of clinical specialty as well as analyze how this impacts their role as nurse educators.

**Prerequisite:** Nursing major; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 1 lecture

**Grade Mode:** Standard Letter

**NURS 61092 ADULT GERONTOLOGY ACUTE CARE NURSE PRACTITIONER I PRACTICUM 2 Credit Hours**

Students apply in the clinical setting the concepts introduced in NURS 60129. Students must complete 150 practicum hours.

**Prerequisite:** Graduate standing.

**Corequisite:** NURS 60129.

**Schedule Type:** Practical Experience

**Contact Hours:** 10 other

**Grade Mode:** Standard Letter

**NURS 61095 SPECIAL TOPICS IN NURSING 2-6 Credit Hours**

(Repeatable for credit) Topics in nursing such as holistic health, selected pathological alterations and recent developments. May include clinical practicum. May be repeated three times with approval for a maximum of 12 credits applied toward the degree.

**Prerequisite:** Graduate standing in Nursing.

**Schedule Type:** Lecture

**Contact Hours:** 2-6 lecture

**Grade Mode:** Standard Letter

**NURS 61192 ADULT GERONTOLOGY CLINICAL NURSE SPECIALIST I PRACTICUM 2 Credit Hours**

Clinical practicum of 150 hours with application of principles of clinical nurse specialist practice introduced in NURS 60110. The student acquires direct care CNS competencies in specialty practice with adults and older adults in a variety of health care settings in consultation with faculty and a clinical preceptor.

**Prerequisite:** Graduate standing.

**Corequisite:** NURS 60110.

**Schedule Type:** Practical Experience

**Contact Hours:** 10 other

**Grade Mode:** Standard Letter

**NURS 61292 ADULT/GERONTOLOGY PRIMARY CARE I PRACTICUM 2 Credit Hours**

Practicum for the concepts introduced in Adult-Gero Primary Care I. Includes 150 practicum hours.

**Prerequisite:** NURS 60015; and graduate standing.

**Corequisite:** NURS 60120.

**Schedule Type:** Practical Experience

**Contact Hours:** 10 other

**Grade Mode:** Standard Letter

**NURS 61392 ADULT GERONTOLOGY ACUTE CARE NURSE PRACTITIONER II PRACTICUM 2 Credit Hours**

Practicum introduces students to the concepts of working with multi-disciplinary teams and applies the content taught in NURS 60130.

**Prerequisite:** NURS 60129 and NURS 61092; and graduate standing.

**Corequisite:** NURS 60130.

**Schedule Type:** Practical Experience

**Contact Hours:** 10 other

**Grade Mode:** Standard Letter

**NURS 61492 WOMEN'S HEALTH CARE NURSE PRACTITIONER I PRACTICUM 2 Credit Hours**

Practicum for concepts introduced in Women's Health Care NP I. This course has 150 clinical hours.

**Prerequisite:** Graduate standing.

**Pre/corequisite:** NURS 60015.

**Corequisite:** NURS 60140.

**Schedule Type:** Practical Experience

**Contact Hours:** 10 other

**Grade Mode:** Standard Letter

**NURS 61592 INDIVIDUAL THERAPY PRACTICUM 2 Credit Hours**

Initial PMH nurse practitioner practicum emphasizes the development of knowledge and skills in mental health assessment, individual psychotherapy, and psychopharmacologic therapies with individuals experiencing chronic or acute mental illness. 150 practicum hours required.

**Prerequisite:** NURS 60012 and NURS 60051 and Graduate standing.

**Corequisite:** NURS 60151.

**Schedule Type:** Practical Experience

**Contact Hours:** 10 other

**Grade Mode:** Standard Letter



**NURS 61692 PRIMARY CARE PEDIATRICS PRACTICUM 2 Credit Hours**

Practicum for Primary Care Pediatrics is the clinical experience to correspond with the content in the corresponding didactic course. 150 hours of practicum.

**Prerequisite:** NURS 60015; and graduate standing.

**Corequisite:** NURS 60160.

**Schedule Type:** Practical Experience

**Contact Hours:** 10 other

**Grade Mode:** Standard Letter

**NURS 61792 PEDIATRIC ASSESSMENT FOR ADVANCED PRACTICE NURSE PRACTICUM 2 Credit Hours**

This course is the clinical application of concepts introduced in Advanced Pediatric Assessment for Advanced Practice Nurses. 150 hours of practicum.

**Prerequisite:** NURS 60045 and NURS 60101; and graduate standing.

**Pre/corequisite:** NURS 60015.

**Corequisite:** NURS 60170.

**Schedule Type:** Practical Experience

**Contact Hours:** 10 other

**Grade Mode:** Standard Letter

**NURS 61892 FAMILY AND ADULT/GERONTOLOGY NURSE PRACTITIONER ROLE PRACTICUM 1 Credit Hour**

Practicum for the concepts introduced in NURS 60125 Family and Adult-Gero Nurse Practitioner Role. Includes 75 practicum hours.

**Prerequisite:** NURS 60120 and 61292; and graduate standing.

**Corequisite:** NURS 60125.

**Schedule Type:** Practical Experience

**Contact Hours:** 5 other

**Grade Mode:** Standard Letter

**NURS 62192 ADULT GERONTOLOGY CLINICAL NURSE SPECIALIST II PRACTICUM 3 Credit Hours**

Application of principles of clinical nurse specialist (CNS) practice introduced in NURS 60210. The student acquires direct care CNS competencies in specialty practice with adults and older adults in a variety of health care settings in consultation with faculty and a clinical preceptor. 225 hours of practicum.

**Prerequisite:** NURS 60110 and NURS 61192; and graduate standing.

**Corequisite:** NURS 60210.

**Schedule Type:** Practical Experience

**Contact Hours:** 15 other

**Grade Mode:** Standard Letter

**NURS 62292 PRIMARY CARE II PRACTICUM: CHRONICALLY ILL ADULTS 2 Credit Hours**

Practicum for the concepts introduced in Primary Care II: Chronically Ill Adults. 150 practicum hours.

**Prerequisite:** NURS 60125 and NURS 61892; and graduate standing.

**Corequisite:** NURS 60220.

**Schedule Type:** Practical Experience

**Contact Hours:** 10 other

**Grade Mode:** Standard Letter

**NURS 62392 ADULT GERONTOLOGY ACUTE CARE NURSE PRACTITIONER III PRACTICUM 2 Credit Hours**

Students apply techniques for evaluation and treatment of the adult-gerontology patient in the acute care setting. Course includes approaches to pharmacotherapeutic and non-pharmacotherapeutic treatment for acute, acute on chronic and chronic illness. Students must complete 150 practicum hours.

**Prerequisite:** NURS 60130 and NURS 61392; and graduate standing.

**Corequisite:** NURS 60230.

**Schedule Type:** Practical Experience

**Contact Hours:** 10 other

**Grade Mode:** Standard Letter

**NURS 62492 WOMEN'S HEALTH CARE NURSE PRACTITIONER II PRACTICUM 2 Credit Hours**

Practicum for concepts introduced in Women's Health Care NP II. This course has 150 practicum hours.

**Prerequisite:** NURS 60140, NURS 60441 and NURS 61492; and graduate standing.

**Corequisite:** NURS 60240.

**Schedule Type:** Practical Experience

**Contact Hours:** 10 other

**Grade Mode:** Standard Letter

**NURS 62592 MEDICATION MANAGEMENT AND INDIVIDUAL THERAPY PRACTICUM 2 Credit Hours**

Second Psychiatric Mental Health Advanced Practice Nurse practicum emphasizes the continued development of knowledge and skills in mental health assessment, individual psychotherapy, and psychopharmacologic therapies with individuals experiencing chronic or acute mental illness. Students will also get experience working with a Psychiatric Mental Health prescriber. Group supervision is provided. 150 practicum hours.

**Prerequisite:** NURS 61592 and NURS 60151; and graduate standing.

**Pre/corequisite:** NURS 60441.

**Schedule Type:** Practical Experience

**Contact Hours:** 10 other

**Grade Mode:** Standard Letter

**NURS 62792 PEDIATRIC NURSE PRACTITIONER I PRACTICUM 2 Credit Hours**

Practicum for the concepts introduced in Pediatric Nurse Practitioner I 150 hours of practicum.

**Prerequisite:** NURS 60015 and NURS 60170; and graduate standing.

**Corequisite:** NURS 60270.

**Schedule Type:** Practical Experience

**Contact Hours:** 10 other

**Grade Mode:** Standard Letter

**NURS 63192 ADULT GERONTOLOGY CLINICAL NURSE SPECIALIST III PRACTICUM 2 Credit Hours**

Acquires CNS systems and leadership competencies in specialty practice with adults and older adults in a variety of health care settings in consultation with faculty and a clinical preceptor. 150 hours of clinical practicum.

**Prerequisite:** NURS 60210 and NURS 62192; and graduate standing.

**Corequisite:** NURS 60310.

**Schedule Type:** Practical Experience

**Contact Hours:** 10 other

**Grade Mode:** Standard Letter

**NURS 63292 PRIMARY CARE: FAMILY HEALTH AND CHRONIC ILLNESS PRACTICUM 2 Credit Hours**

This course is a practicum of concepts introduced in NURS 60325 Primary Care: Family Health and Chronic Illness course. 150 hours of practicum.

**Prerequisite:** NURS 60220 and NURS 62292; and graduate standing.

**Corequisite:** NURS 60325.

**Schedule Type:** Practical Experience

**Contact Hours:** 10 other

**Grade Mode:** Standard Letter

**NURS 63392 ADULT GERONTOLOGY ACUTE CARE NURSE PRACTITIONER IV PRACTICUM 2 Credit Hours**

Students apply therapeutic measures for patients with specialty needs as they relate to acute, acute on chronic and chronic illness. Students demonstrate competency in direct acute care of patients across the adult lifespan, and demonstrate professional compassionate care to patients and their significant others. Students must complete 150 hours of practicum.

**Prerequisite:** NURS 60230 and NURS 62392; and graduate standing.

**Corequisite:** NURS 60330.

**Schedule Type:** Practical Experience

**Contact Hours:** 10 other

**Grade Mode:** Standard Letter

**NURS 63492 WOMEN'S HEALTH CARE NURSE PRACTITIONER III PRACTICUM 1 Credit Hour**

Practicum concepts introduced in Women's Health Care Nurse Practitioner III. This course has 75 clinical hours. Student must achieve a 'B' (3.0) or higher to progress.

**Prerequisite:** Minimum B grade in NURS 60506; and NURS 60240 and NURS 62492; and graduate standing.

**Corequisite:** NURS 60340.

**Schedule Type:** Practical Experience

**Contact Hours:** 5 other

**Grade Mode:** Standard Letter

**NURS 63592 FAMILY AND GROUP THERAPY 2 Credit Hours**

Third Psychiatric Mental Health Advanced Practice Nurse practicum emphasizes the development of knowledge and skills in family and group psychotherapies with individuals experiencing chronic or acute mental illness.

**Prerequisite:** NURS 62592; and graduate standing.

**Corequisite:** NURS 60251.

**Schedule Type:** Practical Experience

**Contact Hours:** 10 other

**Grade Mode:** Standard Letter

**NURS 63692 ADULT GERONTOLOGY COMPREHENSIVE PRIMARY CARE III PRACTICUM 2 Credit Hours**

Practicum for the concepts introduced in AdultGero Comprehensive Primary Care III. 150 hours of practicum.

**Prerequisite:** NURS 60220 and NURS 62292; and graduate standing.

**Corequisite:** NURS 60320.

**Schedule Type:** Practical Experience

**Contact Hours:** 10 other

**Grade Mode:** Standard Letter

**NURS 63792 PEDIATRIC NURSE PRACTITIONER II PRACTICUM 1 Credit Hour**

Practicum for the concepts introduced in Pediatric Nurse Practitioner II. 75 hours of practicum.

**Prerequisite:** NURS 60270 and NURS 62792; and graduate standing.

**Corequisite:** NURS 60370.

**Schedule Type:** Practical Experience

**Contact Hours:** 5 other

**Grade Mode:** Standard Letter

**NURS 63992 ADVANCED NURSING CARE OF THE CHRONICALLY ILL CHILD PRACTICUM 2 Credit Hours**

Practicum for the concepts introduced in Advanced Nursing Care of the Chronically Ill Child. 150 hours of practicum.

**Prerequisite:** NURS 60270; and graduate standing.

**Corequisite:** NURS 60372.

**Schedule Type:** Practical Experience

**Contact Hours:** 10 other

**Grade Mode:** Standard Letter

**NURS 64002 PROGRAM DEVELOPMENT AND EVALUATION FOR NURSE ADMINISTRATORS 3 Credit Hours**

This course focuses on processes for planning, developing and evaluating programs in health care. Analysis of theories, models, issues, challenges related to program planning, development and evaluation relevant to the nurse administrator are considered.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**NURS 64202 NURSING ADMINISTRATION AND HEALTH SYSTEMS LEADERSHIP I SEMINAR 2 Credit Hours**

This course is the first of two capstone seminars with a practicum in a health care organization. Students integrate and apply leadership and management knowledge and are coached in professional roles by established health care leaders.

**Prerequisite:** NURS 60014, NURS 60020, NURS 60024 and NURS 60315; and graduate standing.

**Corequisite:** NURS 64292.

**Schedule Type:** Seminar

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**NURS 64292 NURSING ADMINISTRATION AND HEALTH SYSTEMS LEADERSHIP I PRACTICUM 2 Credit Hours**

Application of principles of leadership and management introduced in 64202 and in other program courses. Students acquire competencies related to leading others in a health care organization.

**Prerequisite:** NURS 60014, NURS 60020, NURS 60024 and NURS 60315; and graduate standing.

**Corequisite:** NURS 64202.

**Schedule Type:** Practical Experience

**Contact Hours:** 2 lecture, 10 other

**Grade Mode:** Standard Letter

**NURS 64302 NURSING ADMINISTRATION AND HEALTH SYSTEMS LEADERSHIP II SEMINAR 2 Credit Hours**

This course is the second of two capstone seminars with a practicum in a health care organization. Students further integrate and apply management knowledge and their professional roles coached by established health care leaders.

**Prerequisite:** NURS 64202 and NURS 64292; and graduate standing.

**Corequisite:** NURS 64392.

**Schedule Type:** Seminar

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**NURS 64392 NURSING ADMINISTRATION AND HEALTH SYSTEMS LEADERSHIP II PRACTICUM 2 Credit Hours**

Capstone clinical practicum with application of principles of leadership and management introduced in NURS 64392 and throughout the program. Students acquire competencies in leadership in health care organizations.

**Prerequisite:** NURS 64202 and NURS 64292; and graduate standing.

**Corequisite:** NURS 64302.

**Schedule Type:** Practical Experience

**Contact Hours:** 10 other

**Grade Mode:** Standard Letter

**NURS 64592 PSYCHIATRIC MENTAL HEALTH PRACTICUM IV: NURSE PRACTITIONER ROLE 2 Credit Hours**

This is the capstone practicum course for students in the Psychiatric Mental Health Family Nurse Practitioner concentration. Students further integrate and apply Psychiatric Mental Health Advance Practice Nurse knowledge and learn about their professional roles, coached by established Psychiatric Mental Health Advanced Practice Registered Nurses. 150 hours of practicum.

**Prerequisite:** NURS 63592; and graduate standing.

**Pre/corequisite:** NURS 60452.

**Schedule Type:** Practical Experience

**Contact Hours:** 10 other

**Grade Mode:** Standard Letter

**NURS 64792 PEDIATRIC NURSE PRACTITIONER III PRACTICUM 1 Credit Hour**

Practicum for the concepts introduced in Pediatric Nurse Practitioner III. 75 hours of practicum.

**Prerequisite:** NURS 60372 and NURS 63992; and graduate standing.

**Corequisite:** NURS 60470.

**Schedule Type:** Practical Experience

**Contact Hours:** 10 other

**Grade Mode:** Standard Letter

**NURS 64892 WOMEN'S HEALTH CARE NURSE PRACTITIONER IV PRACTICUM 2 Credit Hours**

This course is the clinical application of concepts introduced in Women's Health Care NP IV. 150 hours of practicum.

**Prerequisite:** NURS 60340 and NURS 63492; and graduate standing.

**Corequisite:** NURS 60440.

**Schedule Type:** Practical Experience

**Contact Hours:** 10 other

**Grade Mode:** Standard Letter

**NURS 65892 WOMENS HEALTH CARE NURSE PRACTITIONER V PRACTICUM 2 Credit Hours**

Practicum for concepts introduced in Women's Health Care Nurse Practitioner V. 150 hours in practicum.

**Prerequisite:** NURS 60440 and NURS 64892; and graduate standing.

**Corequisite:** NURS 60540.

**Schedule Type:** Practical Experience

**Contact Hours:** 10 other

**Grade Mode:** Standard Letter

**NURS 67092 CLINICAL NURSING AND EDUCATION ISSUES IN A SPECIALTY AREA PRACTICUM 2 Credit Hours**

This practicum course allows students to apply concepts introduced in NURS 60607 to develop in-depth knowledge and expertise in a chosen area of clinical specialty.

**Prerequisite:** Graduate standing.

**Pre/corequisite:** NURS 60607.

**Schedule Type:** Practical Experience

**Contact Hours:** 10 other

**Grade Mode:** Standard Letter

**NURS 67100 ADULT/ADOLESCENT SEXUAL ASSAULT NURSE EXAMINER TRAINING 3 Credit Hours**

Course provides basic knowledge, skills and judgement to provide competent, comprehensive, patient-centered and coordinated care to individuals being evaluated for sexual assault or suspected of having been sexually assaulted.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**NURS 67192 SEXUAL ASSAULT NURSE EXAMINER I PRACTICUM 1 Credit Hour**

Students apply knowledge and skills gained from NURS 67100 in a clinical setting that provides treatment and care to victims of sexual assault. Students must complete 75 practicum hours.

**Prerequisite:** Graduate standing.

**Pre/corequisite:** NURS 67100.

**Schedule Type:** Practical Experience

**Contact Hours:** 5 other

**Grade Mode:** Standard Letter

**NURS 67200 SEXUAL ASSAULT NURSE EXAMINER ADMINISTRATIVE CONCEPTS AND EVALUATION 3 Credit Hours**

Concepts related to the administration and evaluation of programs that treat and care for victims of sexual assault are taught, including working with the criminal justice system, evidence collection and documentation, health care cost, leadership and mentoring and trauma informed care.

**Prerequisite:** NURS 67100; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**NURS 67292 SEXUAL ASSAULT NURSE EXAMINER II PRACTICUM 1 Credit Hour**

Students continue to apply knowledge, hone skills and gain competencies related to the role of a sexual assault nurse examiner in a clinical setting that provides treatment and care to victims of sexual assault. Students must complete 75 practicum hours.

**Prerequisite:** NURS 67100 and NURS 67192; and graduate standing.

**Schedule Type:** Practical Experience

**Contact Hours:** 5 other

**Grade Mode:** Standard Letter

**NURS 67300 POPULATION HEALTH AND SEXUAL ASSAULT 3 Credit Hours**

Course covers topics and concepts that include a quality care model and self-care for the sexual assault nurse examiner; victim population; human trafficking; victim health; rape trauma syndrome; post-traumatic stress disorder (PTSD); healing; substance abuse; pharmacology for sexually transmitted disease; access and barriers to care; and working within an interprofessional team.

**Prerequisite:** NURS 67100; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**NURS 67392 SEXUAL ASSAULT NURSE EXAMINER III PRACTICUM 1 Credit Hour**

Students continue to develop competencies in a clinical setting that provides treatment and care to victims of sexual assault. Students must complete 50 to 75 practicum hours.

**Prerequisite:** NURS 67100 and NURS 67292; and graduate standing.

**Schedule Type:** Practical Experience

**Contact Hours:** 3-5 other

**Grade Mode:** Standard Letter

**NURS 70592 DOCTORAL NURSING PRACTICE PRACTICUM 1-2 Credit Hours**

This course will be repeated beginning the second semester of enrollment until the completion of the scholarly project. The student will design a scholarly project, complete the project proposal defense, successfully obtain IRB approval if needed, implement the scholarly project and successfully defend the completed scholarly project. A minimum of 7 credit hours of this course, which equals 525 practicum hours, are required for these scholarly project activities. The Project Chair will be responsible for the oversight of these activities.

**Prerequisite:** NURS 70630 and NURS 70620; and doctoral standing.

**Schedule Type:** Practical Experience

**Contact Hours:** 5-10 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**NURS 70600 CLINICAL SCHOLAR I 3 Credit Hours**

Focus is transitioning to the clinical scholar leader role within an identified area of advanced nursing practice. Emphasis is placed on the epistemology underlying advanced nursing practice and the integration of theoretical frameworks and evidence-based practice principles in achieving optimal health outcomes for individuals and groups. Comprised of 2 didactic content hours per week and a clinical practicum of 7 hours per week.

**Prerequisite:** Doctoral standing; and special approval.

**Schedule Type:** Clinical Laboratory, Lecture

**Contact Hours:** 2 lecture, 7 other

**Grade Mode:** Standard Letter

**NURS 70605 PROGRAM EVALUATION IN NURSING 3 Credit Hours**

Analysis of theories and models of program evaluation and their relationship to designs, processes, techniques, and outcomes in nursing related evaluations.

**Prerequisite:** Doctor of nursing practice standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**NURS 70610 CLINICAL SCHOLAR II 4 Credit Hours**

Translating and integrating theory and scientific evidence into the clinical work of the advanced practice clinical scholar is the focus of this second seminar course. Culturally-aware approaches are developed to resolve a healthcare issue using theoretic models and principles of evidence-based practice to design innovative interventions. Comprised of 2 didactic content hours per week and a clinical practicum of 14 hours per week.

**Prerequisite:** NURS 70600; and doctoral standing; and special approval.

**Schedule Type:** Clinical Laboratory, Lecture

**Contact Hours:** 2 lecture, 14 other

**Grade Mode:** Standard Letter

**NURS 70620 DOCTOR OF NURSING PRACTICE SEMINAR 3 Credit Hours**

This course is an introduction and overview of the DNP degree as the foundation for translational science in healthcare organizations. DNP Essentials and the associated competencies will be explored (i.e., DNP scholarly inquiry, interdisciplinary collaboration, systems thinking, and organizational leadership). The structure and function of the DNP committee and the requirements for the final scholarly project will be discussed. A complete and thorough literature review to support the DNP Scholarly Project will be a requirement. A Committee Chair will be assigned. The role of the academic advisor and committee chairperson will be explained.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Seminar

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**NURS 70630 RESEARCH METHODS FOR EVIDENCE BASED PRACTICE 3 Credit Hours**

The focus of this course is to provide instruction regarding concepts related to statistical methods and their application in evidence-based practice. Essentials of research methods in evidence-based practice will also be covered. Students will learn to critically analyze and synthesize research findings.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**NURS 70635 APPLICATION OF EVIDENCE BASED PRACTICE 3 Credit Hours**

Focus of course is on the concepts, models, and methods for implementation of evidence-based nursing practice at both individual clinician and system levels. Students will learn to design, implement and evaluate processes and programs at the practice and organizational level to improve healthcare outcomes. Leadership attributes necessary to lead change in practice will be discussed. Factors that facilitate and impede implementing and sustaining evidence-based practice are considered.

**Prerequisite:** NURS 70630; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**NURS 70640 ADVANCED LEADERSHIP IN HEALTHCARE 3 Credit Hours**

Advanced competencies of the doctoral-prepared advanced practice nurse for transformational leadership in healthcare to improve patient and population health outcomes are addressed. Five key leadership competencies including creating and leading change; self-knowledge; strategic vision; interpersonal communication; and organizational effectiveness are presented with examples and case studies. Transcending themes of ethics, research, interprofessional collaboration, creativity, and insuring accountability are addressed throughout the course. Students conduct a self-assessment, and develop and implement individualized action plans for advanced competency in interprofessional healthcare leadership.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**NURS 70650 ORGANIZATIONAL SYSTEMS 3 Credit Hours**

Building on the skills in Advanced Leadership for Healthcare Providers, students will gain an understanding of organizational culture and management structures that contribute to the design and delivery of healthcare. Economic, political and cultural aspects of organizational systems will be discussed.

**Prerequisite:** NURS 70640; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**NURS 70670 QUALITY IMPROVEMENT IN HEALTHCARE DELIVERY 3 Credit Hours**

Focus on the design, implementation and evaluation of quality and patient safety initiatives to improve healthcare delivery at the individual patient and system levels. Data necessary to support quality initiatives will be considered as well as policy, legal and ethical implications.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**NURS 70680 POPULATION HEALTH 3 Credit Hours**

Students will explore care delivery models and strategies for health promotion and disease prevention in individuals, aggregates and populations. Gaps in care and healthcare access will be explored, including social, cultural, economic, and policy and political barriers. The role of genomics in healthcare delivery of populations will be discussed. Students will develop skills to design and evaluate health promotion and disease prevention programs.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**NURS 70685 HEALTHCARE FINANCE AND ECONOMIC POLICY 3 Credit Hours**

Students will gain an understanding of healthcare finance, economics and policy on healthcare delivery systems. The impact of current healthcare laws-policies (Affordable Care Act, HCAHPS, and other care delivery and reimbursement strategies) will be discussed. The DNP prepared nurses' role in patient advocacy and policy development will be discussed. Student will gain an understanding of cost-benefit analyses and creating budgets to support the design, implementation and sustainability of healthcare delivery initiatives.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**NURS 70692 CLINICAL SCHOLAR PRACTICUM 3 Credit Hours**

(Repeatable for credit) Synthesis of components of clinical scholar leader role comprises this practicum. Students apply advanced leadership and clinical scholarship skills to developing and evaluating approaches to healthcare problems in a practicum setting.

**Prerequisite:** NURS 70610; and doctoral standing; and special approval.

**Schedule Type:** Practical Experience

**Contact Hours:** 21 other

**Grade Mode:** Standard Letter

**NURS 70705 FOUNDATIONS OF RESEARCH METHODS IN NURSING 3 Credit Hours**

Examines diverse paradigms and research methods as the foundation for scholarly inquiry in nursing knowledge development. Students begin building a foundation for focused intellectual inquiry in a substantive area of nursing.

**Prerequisite:** Doctoral standing.

**Corequisite:** NURS 70710.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**NURS 70710 HISTORY AND PHILOSOPHY OF NURSING SCIENCE 2 Credit Hours**

This course examines the nature and metaphysics and epistemology and the influence of contemporary Eastern and Western philosophies on the developing epistemology of disciplinary nursing knowledge.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**NURS 70711 SCIENTIFIC WRITING 2 Credit Hours**

This courses covers how to conduct several types of literature reviews. Students will conduct a literature review relevant to their research interest, synthesize the literature, identify gaps, and write a synthesis of the literature. Ethical issues and authorship considerations are discussed.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter



**NURS 70712 RESEARCH DESIGN FUNDAMENTALS 2 Credit Hours**

The course focuses on learning fundamental methodological concepts and tools that enable an understanding of research problems and serve as a basis to conduct quantitative and qualitative research. There is emphasis on linking theory and research models to research questions, hypotheses and designs.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**NURS 70713 ADVANCED STATISTICS I 2 Credit Hours**

This course focuses on learning introductory descriptive, parametric and non-parametric statistical models. Students learn how to enter, clean, and handle missing data, as well as perform analyses using SPSS. Expected outcomes are a conceptual understanding of statistical models covered in the course, interpretation of output of statistical analyses, and communication of findings in oral and written work.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**NURS 70714 LEADERSHIP FOR NURSING SCIENCE 3 Credit Hours**

This course focuses on the development of the nurse scientist as a leader across health care and higher educational systems, as well as in influencing and formulating healthcare policy.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**NURS 70715 THEORY CONSTRUCTION AND DEVELOPMENT IN NURSING 3 Credit Hours**

This course examines strategies for theory development including logical-empirical-deductive and inductive approaches. Emphasis will be on elements and strategies used in theory building.

**Prerequisite:** NURS 70710; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**NURS 70720 INTRODUCTION TO NURSING KNOWLEDGE DOMAINS 3 Credit Hours**

Introductory seminar analyzing selected theoretical and methodological approaches to knowledge development in nursing. Emphasis on critical analysis of knowledge in areas of special interest.

**Prerequisite:** NURS 70725 and NURS 70730; and doctoral standing.

**Pre/corequisite:** NURS 70715.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**NURS 70725 QUANTITATIVE RESEARCH METHODS IN NURSING 3 Credit Hours**

Extends students' knowledge of the theory and practice of quantitative research in nursing. Focus is on the major types of quantitative design in nursing science. Theoretical and procedural issues related to design, measurement and data management with a substantive area of nursing inquiry are emphasized. Akron 8200:825.

**Prerequisite:** Doctoral standing.

**Corequisite:** NURS 70705 and NURS 70727.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**NURS 70727 ADVANCED HEALTH CARE STATISTICS I 3 Credit Hours**

Comprehension of bivariate and multivariate descriptive and inferential statistics designed for nurse researchers. Applications to research problems in nursing. Akron 8200 827.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**NURS 70730 QUALITATIVE RESEARCH METHODS IN NURSING 3 Credit Hours**

Selected qualitative research methods used to study nursing phenomena. Philosophical bases; design, data collection and analysis; evaluation of rigor; and ethical issues for major qualitative methods will be analyzed with regard to nursing phenomena.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**NURS 70735 NURSING AND HEALTH CARE POLICY 3 Credit Hours**

Critical examination of theories and processes of formulating state/national health care policy. Focus on health issues, the political and legislative process and contemporary policy dilemmas.

**Prerequisite:** Doctoral standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**NURS 70737 ADVANCED HEALTH CARE STATISTICS II 3 Credit Hours**

Application of bivariate and multivariate descriptive and inferential statistics to research problems in nursing. Akron 8200 837.

**Prerequisite:** NURS 70727; and doctoral standing or special approval from department.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**NURS 70740 ADVANCED STATISTICS II 3 Credit Hours**

This course provides in-depth knowledge of regression, general linear model, and exploratory factor analysis statistical models. Course outcomes include a conceptual understanding of these models and the ability to conduct and interpret output of statistical analyses and communicate findings in oral and written work. Knowledge of SPSS is required.

**Prerequisite:** NURS 70713; and doctoral standing.

**Schedule Type:** Lecture

**Grade Mode:** Standard Letter

**NURS 70741 ADVANCED STATISTICS III 3 Credit Hours**

This course focuses on more advanced statistical models used in nursing, including but not limited to, confirmatory factor analysis, path analysis and structural equation modeling. Course outcomes are a conceptual understanding of these models and ability to interpret output of statistical analyses and communicate findings in oral and written work.

**Prerequisite:** NURS 70740; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**NURS 70742 ADVANCED QUALITATIVE METHODS FOR HEALTH SCIENCES 4 Credit Hours**

Select qualitative research methods used to study nursing phenomena are examined. Theory and philosophical underpinnings, design, recruitment, data collection and analysis, evaluation of rigor, and ethical issues for major qualitative methods are discussed.

**Prerequisite:** NURS 70710, NURS 70712 and NURS 70715; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 4 lecture

**Grade Mode:** Standard Letter

**NURS 70743 ADVANCED QUANTITATIVE METHODS FOR HEALTH SCIENCES 4 Credit Hours**

This course extends knowledge of quantitative research designs for nursing and focuses on cross-sectional, cohort, and case control studies, and clinical trials. Advanced knowledge of measurement, sampling, data collection and methods to improve quantitative design rigor is covered. There is emphasis on application of course content to a selected research question or hypothesis.

**Prerequisite:** NURS 70710, NURS 70712 and NURS 70715; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 4 lecture

**Grade Mode:** Standard Letter

**NURS 70744 PROPOSAL DEVELOPMENT 3 Credit Hours**

In this course, students will critically evaluate existing literature to develop persuasive and methodologically sound arguments addressing at least one critical gap for nursing science. Focus is on study design, scope, and feasibility of projects that culminate in a dissertation proposal first draft.

**Prerequisite:** NURS 70742 and NURS 70743; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**NURS 70745 ADVANCED TOPICS IN QUANTITATIVE RESEARCH METHODS 3 Credit Hours**

Focuses on integration and application of components of quantitative research design in nursing through application of multivariate design principles to existing data sets. Advanced topics in methods, statistics and measurement are addressed.

**Prerequisite:** NURS 70725 and 70727; and doctoral standing.

**Pre/corequisite:** NURS 70737.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**NURS 70747 ADVANCED METHODS FOR NURSING RESEARCH: APPLICATION OF QUALITATIVE METHODS 3 Credit Hours**

Theory, data collection and analysis used in qualitative nursing research with a focus on phenomenology, grounded theory and ethnography.

**Prerequisite:** NURS 70720 and NURS 70725 and NURS 70730; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**NURS 70791 VARIABLE CONTENT SEMINAR: EMERGING ISSUES IN NURSING SCIENCE AND RESEARCH 3 Credit Hours**

(Repeatable for credit) This seminar course will examine in-depth current scientific trends and emerging topics in nursing research.

**Prerequisite:** NURS 70742 and NURS 70743; and doctoral standing.

**Schedule Type:** Seminar

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**NURS 70792 FIELD EXPERIENCE IN NURSING 1-12 Credit Hours**

(Repeatable for credit) Individual enrollment in field experience settings related to nursing.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Field Experience

**Contact Hours:** 1-12 other

**Grade Mode:** Standard Letter

**NURS 70795 SPECIAL TOPICS IN NURSING 2-6 Credit Hours**

(Repeatable for credit) Study of important topics in nursing practice, research on the profession. Offering in response to existing interests and opportunities.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 2-6 lecture

**Grade Mode:** Standard Letter

**NURS 70796 INDIVIDUAL INVESTIGATION IN NURSING 1-3 Credit Hours**

(Repeatable for credit) Individual enrollment for independent study in nursing carried out by student under supervision of a doctoral faculty member.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Individual Investigation

**Contact Hours:** 1-3 other

**Grade Mode:** Standard Letter

**NURS 70798 RESEARCH IN NURSING 1-3 Credit Hours**

(Repeatable for credit) Research activities are carried out by a student under faculty supervision, including but not limited to, data collection, coding, entry and analysis, inter-professional teamwork, and preparation and submission of research presentations and manuscripts.

**Prerequisite:** NURS 70742; and doctoral standing.

**Pre/corequisite:** NURS 70743.

**Schedule Type:** Research

**Contact Hours:** 3-9 other

**Grade Mode:** Standard Letter

**NURS 71392 DOCTOR OF NURSING PRACTICE SCHOLARLY PROJECT PRACTICUM I 2 Credit Hours**

This course is the first in a series of four courses beginning the second semester of enrollment culminating with the completion of the scholarly project in the fourth practicum. The Committee Chair is the faculty of record. In this practicum the student will design the Scholarly Project, submit a paper for approval to the committee and complete the project Defense of Proposal, as well as complete DNP Practicum hours. The Committee Chair will be responsible for the oversight of these activities.

**Prerequisite:** NURS 70620; and doctoral standing.

**Schedule Type:** Practical Experience

**Contact Hours:** 10 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**NURS 72392 DOCTOR OF NURSING PRACTICE SCHOLARLY PROJECT PRACTICUM II 2 Credit Hours**

This course is the second in a series of four courses that will focus on the beginning phases of implementation of the Scholarly Project. The Committee Chair is the faculty of record. In this course the student will submit application for IRB approval and once approved begin to implement the Scholarly Project, as well as complete DNP Practicum hours. The Committee Chair will be responsible for the oversight of these activities.

**Prerequisite:** NURS 71392; and doctoral standing.

**Schedule Type:** Practical Experience

**Contact Hours:** 10 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**NURS 73392 DOCTOR OF NURSING PRACTICE SCHOLARLY PROJECT PRACTICUM III 2 Credit Hours**

This course is the third in a series of four courses that focuses on the completion of the implementation phase of the Scholarly Project. The Committee Chair is the faculty of record. In the series, complete the implementation phase of the Scholarly Project, collect and analyze project data and begin the final draft of the paper to be submitted in the fourth practicum course, as well as complete DNP Practicum hours. The Committee Chair will be responsible for the oversight of these activities.

**Prerequisite:** NURS 72392; and doctoral standing.

**Schedule Type:** Practical Experience

**Contact Hours:** 10 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**NURS 74392 DOCTORAL OF NURSING PRACTICE SCHOLARLY PROJECT PRACTICUM IV 1 Credit Hour**

This course is the fourth in a series of four courses culminating with the completion of the scholarly project. The Committee Chair is the faculty of record. In the series, the student will finish analyzing data and begin an evaluation of the project and findings. The student will submit a final Scholarly paper and upon approval from the committee will conduct the final Defense of the Scholarly Project as well as complete DNP Practicum hours. The Committee Chair will be responsible for the oversight of these activities.

**Prerequisite:** NURS 74392; and doctoral standing.

**Schedule Type:** Practical Experience

**Contact Hours:** 5 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**NURS 76199 DOCTOR OF NURSING PRACTICE SCHOLARLY PROJECT 2-6 Credit Hours**

(Repeatable for credit) Faculty and preceptor-directed project that contributes to nursing practice knowledge. Culminates in an oral defense and a publishable manuscript. Students register for a total of 6 hours, 2 to 6 hours in a single semester, distributed over three semesters if desired. Pre/

**Prerequisite:** NURS 70600; and doctoral standing; and special approval.

**Corequisite:** NURS 70610.

**Schedule Type:** Research

**Contact Hours:** 14-42 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**NURS 76299 CAPSTONE PROJECT II 1-3 Credit Hours**

(Repeatable for credit) Capstone project students must continue registration until all degree requirements are met.

**Prerequisite:** NURS 76199; and doctoral standing; and special approval.

**Schedule Type:** Research

**Contact Hours:** 7-21 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**NURS 80199 DISSERTATION I 15 Credit Hours**

(Repeatable for credit) Independent doctoral research for the dissertation under faculty supervision. Registration of at least two semesters is required, continuing until completion of 30 credit hours. Akron 8200:899.

**Prerequisite:** Admission to doctoral candidacy; and doctoral standing.

**Schedule Type:** Dissertation

**Contact Hours:** 15 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**NURS 80299 DISSERTATION II 15 Credit Hours**

(Repeatable for credit) Continuing registration of research, after initial 30 hours of Dissertation I.

**Prerequisite:** 30 hours of NURS 80199; and doctoral standing.

**Schedule Type:** Dissertation

**Contact Hours:** 15 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

## Adult Gerontology Acute Care Nurse Practitioner - Graduate Certificate

### College of Nursing

Henderson Hall

Kent Campus

330-672-7930

nursing@kent.edu

www.kent.edu/nursing

## Description

The Adult Gerontology Acute Care Nurse Practitioner graduate certificate provides nurses who already have a graduate nursing degree the additional specialized knowledge and clinical experience for the adult gerontology acute care nurse practitioner role. The certificate meets the educational requirements for national certification examination.

### Fully Offered At:

- Kent Campus

## Admission Requirements

- Master's degree in nursing or a doctorate in nursing practice from an accredited nursing program
- Minimum 3.000 graduate GPA on a 4.000 scale
- Official transcript(s)
- Active, unrestricted registered nurse license in the state in which practicum hours will be completed
- Résumé or vita
- Goal Statement (no more than 250 words) describing reasons for seeking the certificate in the identified specialty and professional goals.
- Transcript(s) of all previous graduate coursework<sup>1</sup>
- Syllabi of all courses to be considered for transfer in the gap analysis
- Three letters of reference from health care professionals or faculty members
- English language proficiency - all international students must provide proof of English language proficiency (unless they meet specific exceptions) by earning one of the following:

- Minimum 560 TOEFL PBT score (paper-based version)
- Minimum 83 TOEFL IBT score (Internet-based version)
- Minimum 78 MELAB score
- Minimum 6.5 IELTS score
- Minimum 55 PTE score

For more information about graduate admissions, please visit the Graduate Studies admission website. For more information on international admission, visit the Office of Global Education's admission website.

<sup>1</sup> Transcript(s) must indicate completion of graduate-level courses in advanced pathophysiology, advanced pharmacology and advanced health assessment, with a minimum B grade earned in each course. Applicants who do not meet the grade requirement for advanced pathophysiology, advanced pharmacology and advanced health assessment may be considered for a conditional admission. For applicants who have not practiced as an advanced practice registered nurse within the two-year period preceding application to the certificate, completion of graduate-level courses in advanced pathophysiology, advanced pharmacology and advanced health assessment must not be greater than five years old at the time of the student's first semester of course registration in the certificate.

## Program Requirements

### Certificate Requirements

Code	Title	Credit Hours
<b>Certificate Requirements</b>		
NURS 60129	ADULT GERONTOLOGY ACUTE CARE NURSE PRACTITIONER I	3
NURS 60130	ADULT GERONTOLOGY ACUTE CARE NURSE PRACTITIONER II	1
NURS 60230	ADULT GERONTOLOGY ACUTE CARE NURSE PRACTITIONER III	4
NURS 60330	ADULT GERONTOLOGY ACUTE CARE NURSE PRACTITIONER IV	2
NURS 60506	CLINICAL DIAGNOSTICS FOR ADVANCED PRACTICE NURSES	3
NURS 61092	ADULT GERONTOLOGY ACUTE CARE NURSE PRACTITIONER I PRACTICUM	2
NURS 61392	ADULT GERONTOLOGY ACUTE CARE NURSE PRACTITIONER II PRACTICUM	2
NURS 62392	ADULT GERONTOLOGY ACUTE CARE NURSE PRACTITIONER III PRACTICUM	2
NURS 63392	ADULT GERONTOLOGY ACUTE CARE NURSE PRACTITIONER IV PRACTICUM	2
Minimum Total Credit Hours:		21

### Graduation Requirements

Minimum Certificate GPA	Minimum Overall GPA
3.000	

## Adult Gerontology Clinical Nurse Specialist - Graduate Certificate

College of Nursing  
Henderson Hall

Kent Campus  
330-672-7930  
nursing@kent.edu  
www.kent.edu/nursing

## Description

The Adult Gerontology Clinical Nurse Specialist graduate certificate provides nurses who already have a graduate nursing degree the additional specialized knowledge for the adult gerontology clinical nurse specialist role. The certificate meets the educational requirements for the national certification examination.

### Fully Offered At:

- Online

## Admission Requirements

- Master's degree in nursing or a doctorate in nursing practice from an accredited nursing program
- Minimum 3.000 graduate GPA on a 4.000 scale
- Official transcript(s)
- Active, unrestricted registered nurse license in the state in which practicum hours will be completed
- Résumé or vita
- Goal statement (no more than 250 words) describing reasons for seeking the certificate in the identified specialty and professional goals
- Transcript(s) of all previous graduate coursework<sup>1</sup>
- Syllabi of all courses to be considered for transfer in the gap analysis
- Three letters of reference from health care professionals or faculty members
- English language proficiency - all international students must provide proof of English language proficiency (unless they meet specific exceptions) by earning one of the following:
  - Minimum 560 TOEFL PBT score (paper-based version)
  - Minimum 83 TOEFL IBT score (Internet-based version)
  - Minimum 78 MELAB score
  - Minimum 6.5 IELTS score
  - Minimum 55 PTE score

For more information about graduate admission, please visit the Graduate Studies website. For more information on international admission, visit the Office of Global Education's admission website.

<sup>1</sup> Transcript(s) must indicate completion of graduate-level courses in advanced pathophysiology, advanced pharmacology and advanced health assessment, with a minimum B grade earned in each course. Applicants who do not meet the grade requirement for advanced pathophysiology, advanced pharmacology and advanced health assessment may be considered for a conditional admission. For applicants who have not practiced as an advanced practice registered nurse within the two-year period preceding application to the certificate, completion of graduate-level courses in advanced pathophysiology, advanced pharmacology and advanced health assessment must not be greater than five years old at the time of the student's first semester of course registration in the certificate.

## Program Requirements

### Certificate Requirements

Code	Title	Credit Hours
<b>Certificate Requirements</b>		
NURS 60506	CLINICAL DIAGNOSTICS FOR ADVANCED PRACTICE NURSES	3
NURS 60110	ADULT GERONTOLOGY CLINICAL NURSE SPECIALIST I	3
NURS 60210	ADULT GERONTOLOGY CLINICAL NURSE SPECIALIST II	3
NURS 60310	ADULT GERONTOLOGY CLINICAL NURSE SPECIALIST III	3
NURS 61192	ADULT GERONTOLOGY CLINICAL NURSE SPECIALIST I PRACTICUM	2
NURS 62192	ADULT GERONTOLOGY CLINICAL NURSE SPECIALIST II PRACTICUM	3
NURS 63192	ADULT GERONTOLOGY CLINICAL NURSE SPECIALIST III PRACTICUM	2
Minimum Total Credit Hours:		19

### Graduation Requirements

Minimum Certificate GPA	Minimum Overall GPA
3.000	

## Adult Gerontology Primary Care Nurse Practitioner - Graduate Certificate

### College of Nursing

Henderson Hall  
Kent Campus  
330-672-7930  
nursing@kent.edu  
www.kent.edu/nursing

### Description

The Adult Gerontology Primary Care Nurse Practitioner graduate certificate provides nurses who already have a graduate nursing degree the additional specialized knowledge for the adult gerontology primary care nurse practitioner role. The certificate meets the educational requirements for the national certification examination.

### Fully Offered At:

- Kent Campus

### Admission Requirements

- Master's degree in nursing or a doctorate in nursing practice from an accredited nursing program
- Minimum 3.000 graduate GPA on a 4.000 scale
- Official transcript(s)

- Active, unrestricted registered nurse license in the state in which practicum hours will be completed
- Résumé or vita
- Goal statement (no more than 250 words) describing reasons for seeking the certificate in the identified specialty and professional goals
- Transcript(s) of all previous graduate coursework<sup>1</sup>
- Syllabi of all courses to be considered for transfer in the gap analysis
- Three letters of reference from health care professionals or faculty members
- English language proficiency - all international students must provide proof of English language proficiency (unless they meet specific exceptions) by earning one of the following:
  - Minimum 560 TOEFL PBT score (paper-based version)
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  - Minimum 78 MELAB score
  - Minimum 6.5 IELTS score
  - Minimum 55 PTE score

For more information about graduate admissions, please visit the [Graduate Studies admission website](#). For more information on international admission, visit the [Office of Global Education's admission website](#).

<sup>1</sup> Transcript(s) must indicate completion of graduate-level courses in advanced pathophysiology, advanced pharmacology and advanced health assessment, with a minimum B grade earned in each course. Applicants who do not meet the grade requirement for advanced pathophysiology, advanced pharmacology and advanced health assessment may be considered for a conditional admission. For applicants who have not practiced as an advanced practice registered nurse within the two-year period preceding application to the certificate, completion of graduate-level courses in advanced pathophysiology, advanced pharmacology and advanced health assessment must not be greater than five years old at the time of the student's first semester of course registration in the certificate.

## Program Requirements

### Certificate Requirements

Code	Title	Credit Hours
<b>Certificate Requirements</b>		
NURS 60120	ADULT/GERONTOLOGY PRIMARY CARE I	3
NURS 60125	FAMILY AND ADULT GERONTOLOGY NURSE PRACTITIONER ROLE	1
NURS 60220	PRIMARY CARE II: CHRONICALLY ILL ADULTS	3
NURS 60320	ADULT/GERONTOLOGY PRIMARY CARE III	3
NURS 60506	CLINICAL DIAGNOSTICS FOR ADVANCED PRACTICE NURSES	3
NURS 61292	ADULT/GERONTOLOGY PRIMARY CARE I PRACTICUM	2
NURS 61892	FAMILY AND ADULT/GERONTOLOGY NURSE PRACTITIONER ROLE PRACTICUM	1
NURS 62292	PRIMARY CARE II PRACTICUM: CHRONICALLY ILL ADULTS	2
NURS 63692	ADULT GERONTOLOGY COMPREHENSIVE PRIMARY CARE III PRACTICUM	2
Minimum Total Credit Hours:		20



## Graduation Requirements

Minimum Certificate GPA	Minimum Overall GPA
3.000	

# Adult/Adolescent Sexual Assault Nurse Examiner - Graduate Certificate

**College of Nursing**  
Henderson Hall  
Kent Campus  
330-672-7930  
nursing@kent.edu  
www.kent.edu/nursing

## Description

The Adult/Adolescent Sexual Assault Nurse Examiner graduate certificate provides registered nurses the specialized training necessary to be certified as a sexual assault nurse examiner (SANE) for adult and adolescent patients. A SANE provides comprehensive care to victims of sexual assault or abuse. In addition, they conduct a forensic examination and may provide expert testimony if a case goes to trial.

Nurses receive their SANE certification through the International Association of Forensic Nurses, Commission on Forensic Nursing Certification. To be certified, nurses with a minimum of two years of full-time experience must have completed a minimum of 40 hours of sexual assault education; worked under the supervision of an expert (e.g., SANE-certified nurse); performed enough sexual assault exams to demonstrate clinical competency; and successfully passed a certification test.

The certificate's didactic courses will be offered on-ground and online at the Kent Campus, and the practicum experiences will be conducted at the Sexual Assault Evidence Collection and Care Facility of Cleveland Clinic Akron General.

### Fully Offered At:

- Kent Campus (hybrid online/on-ground)

## Admission Requirements

- Bachelor's or master's degree from an accredited nursing program
- Minimum 3.000 undergraduate or graduate GPA on a 4.000 point scale
- Official transcript(s)
- Active, unrestricted registered nurse license in the state of Ohio
- Two years of full-time registered nurse experience
- Résumé or curriculum vitae
- Goal statement (250 words) describing reasons for seeking the certificate
- Three letters of recommendation from health care professionals

For more information about graduate admission, please visit the graduate admission website.

## Program Learning Outcomes

Graduates of this program will be able to:

1. Meet standards for advanced professional distinction.
2. Assume an advanced role in nursing and for leadership and career advancement.
3. Communicate, integrate and apply advanced nursing knowledge and skills to provide evidence-based, culturally sensitive nursing care and promote quality outcomes in nursing and healthcare.

## Program Requirements

### CERTIFICATE REQUIREMENTS

Code	Title	Credit Hours
<b>Certificate Requirements</b>		
NURS 67100	ADULT/ADOLESCENT SEXUAL ASSAULT NURSE EXAMINER TRAINING	3
NURS 67192	SEXUAL ASSAULT NURSE EXAMINER I PRACTICUM	1
NURS 67200	SEXUAL ASSAULT NURSE EXAMINER ADMINISTRATIVE CONCEPTS AND EVALUATION	3
NURS 67292	SEXUAL ASSAULT NURSE EXAMINER II PRACTICUM	1
NURS 67300	POPULATION HEALTH AND SEXUAL ASSAULT	3
NURS 67392	SEXUAL ASSAULT NURSE EXAMINER III PRACTICUM	1
Minimum Total Credit Hours:		12

## Graduate Requirements

Minimum Certificate GPA	Minimum Overall GPA
3.000	

# Family Nurse Practitioner - Graduate Certificate

**College of Nursing**  
Henderson Hall  
Kent Campus  
330-672-7930  
nursing@kent.edu  
www.kent.edu/nursing

## Description

The Family Nurse Practitioner graduate certificate provides nurses who already have a graduate nursing degree to acquire the additional specialized knowledge and clinical experience for the family nurse practitioner role. The certificate meets the educational requirements for the national certification examination.

### Fully Offered At:

- Kent Campus

## Admission Requirements

- Master's degree in nursing or a doctorate in nursing practice from an accredited nursing program
- Minimum 3.000 graduate GPA on a 4.000 scale
- Official transcript(s)

- Active, unrestricted registered nurse license in the state in which practicum hours will be completed
- Résumé or vita
- Goal statement (no more than 250 words) describing reasons for seeking the certificate in the identified specialty and professional goals
- Transcript(s) of all previous graduate coursework<sup>1</sup>
- Syllabi of all courses to be considered for transfer in the gap analysis
- Three letters of reference from health care professionals or faculty members
- English language proficiency - all international students must provide proof of English language proficiency (unless they meet specific exceptions) by earning one of the following:
  - Minimum 560 TOEFL PBT score (paper-based version)
  - Minimum 83 TOEFL IBT score (Internet-based version)
  - Minimum 78 MELAB score
  - Minimum 6.5 IELTS score
  - Minimum 55 PTE score

For more information about graduate admissions, please visit the Graduate Studies admission website. For more information on international admission, visit the Office of Global Education's admission website.

<sup>1</sup> Transcript(s) must indicate completion of graduate-level courses in advanced pathophysiology, advanced pharmacology and advanced health assessment, with a minimum B grade earned in each course. Applicants who do not meet the grade requirement for advanced pathophysiology, advanced pharmacology and advanced health assessment may be considered for a conditional admission. For applicants who have not practiced as an advanced practice registered nurse within the two-year period preceding application to the certificate, completion of graduate-level courses in advanced pathophysiology, advanced pharmacology and advanced health assessment must not be greater than five years old at the time of the student's first semester of course registration in the certificate.

## Program Requirements

### Certificate Requirements

Code	Title	Credit Hours
<b>Certificate Requirements</b>		
NURS 60120	ADULT/GERONTOLOGY PRIMARY CARE I	3
NURS 60125	FAMILY AND ADULT GERONTOLOGY NURSE PRACTITIONER ROLE	1
NURS 60160	PRIMARY CARE PEDIATRICS	3
NURS 60220	PRIMARY CARE II: CHRONICALLY ILL ADULTS	3
NURS 60325	PRIMARY CARE: FAMILY HEALTH AND CHRONIC ILLNESS	4
NURS 60506	CLINICAL DIAGNOSTICS FOR ADVANCED PRACTICE NURSES	3
NURS 61292	ADULT/GERONTOLOGY PRIMARY CARE I PRACTICUM	2
NURS 61692	PRIMARY CARE PEDIATRICS PRACTICUM	2
NURS 61892	FAMILY AND ADULT/GERONTOLOGY NURSE PRACTITIONER ROLE PRACTICUM	1
NURS 62292	PRIMARY CARE II PRACTICUM: CHRONICALLY ILL ADULTS	2

NURS 63292	PRIMARY CARE: FAMILY HEALTH AND CHRONIC ILLNESS PRACTICUM	2
Minimum Total Credit Hours:		26

## Graduation Requirements

Minimum Certificate GPA	Minimum Overall GPA
3.000	

## Nurse Educator - Graduate Certificate

### College of Nursing

Henderson Hall  
Kent Campus  
330-672-7930  
nursing@kent.edu  
www.kent.edu/nursing

## Description

The Nurse Educator graduate certificate provides nurses who already have a graduate nursing degree the additional specialized knowledge and experience for the nurse educator role. The certificate meets the educational requirements for national certification examination.

### Fully Offered At:

- Online

## Admission Requirements

- Master's degree in nursing or a doctorate in nursing practice from an accredited nursing program
- Minimum 3.000 graduate GPA on a 4.000 scale
- Official transcript(s)
- Active, unrestricted registered nurse license in the state in which practicum hours will be completed
- Résumé or vita
- Goal statement (no more than 250 words) describing reasons for seeking the certificate in the identified specialty and professional goals.
- Transcript(s) of all previous graduate coursework<sup>1</sup>
- Syllabi of all courses to be considered for transfer in the gap analysis
- Three letters of reference from health care professionals or faculty members
- English language proficiency - all international students must provide proof of English language proficiency (unless they meet specific exceptions) by earning one of the following:
  - Minimum 560 TOEFL PBT score (paper-based version)
  - Minimum 83 TOEFL IBT score (Internet-based version)
  - Minimum 78 MELAB score
  - Minimum 6.5 IELTS score
  - Minimum 55 PTE score

For more information about graduate admissions, please visit the Graduate Studies admission website. For more information on international admission, visit the Office of Global Education's admission website.

<sup>1</sup> Transcript(s) must indicate completion of graduate-level courses in advanced pathophysiology, advanced pharmacology and advanced health assessment, with a minimum B grade earned in each course. Applicants who do not meet the grade requirement for advanced pathophysiology, advanced pharmacology and advanced health assessment may be considered for a conditional admission.

## Program Requirements

### Certificate Requirements

Code	Title	Credit Hours
<b>Certificate Requirements</b>		
NURS 60601	CURRICULUM AND INSTRUCTION IN NURSING EDUCATION	3
NURS 60602	ROLES AND EVALUATION FOR NURSING EDUCATION CURRICULA	3
NURS 60605	NURSING EDUCATION WITH TECHNOLOGY	2
NURS 60607	CLINICAL NURSING AND EDUCATION ISSUES IN A SPECIALTY AREA	1
NURS 60592	NURSING EDUCATION PRACTICUM	3
NURS 67092	CLINICAL NURSING AND EDUCATION ISSUES IN A SPECIALTY AREA PRACTICUM	2
Minimum Total Credit Hours:		14

### Graduation Requirements

Minimum Certificate GPA	Minimum Overall GPA
3.000	

## Nursing - B.S.N.

### College of Nursing

Henderson Hall  
Kent Campus  
330-672-7930  
nursing@kent.edu  
www.kent.edu/nursing

### Description

The Bachelor of Science in Nursing degree in Nursing prepares practitioners for professional nursing, helps them understand their role in society and prepares them for graduate study. The program emphasizes professional knowledge, skills and compassionate nursing practices. Students begin with courses that demonstrate the core foundations of the nursing profession and its historical roots. The capstone preceptorship exposes students to research and professional-practice concepts that will ensure their abilities to be nurse leaders and healthcare advocates.

Throughout the curriculum, students study life-span and cultural diversity issues while applying evidence-based practice to their profession.

The Nursing major includes the following optional concentration:

- The **Accelerated Second Degree** concentration is for students who hold a bachelor's degree and wish to pursue the B.S.N. degree in an accelerated manner.

### Fully Offered At:

- Geauga Campus (Nursing major only)
- Kent Campus (Nursing major and Accelerated Second Degree concentration)
- Salem Campus (Nursing major only)
- Stark Campus (Nursing major only)
- Trumbull Campus (Nursing major only)

### Accreditation

The B.S.N. degree in Nursing at Kent State University is accredited by the Commission on Collegiate Nursing Education, 655 K Street, NW, Suite 750, Washington, DC 20001, 202-887-6791.

### Admission Requirements

The university affirmatively strives to provide educational opportunities and access to students with varied backgrounds, those with special talents and adult students who graduated from high school three or more years ago.

**Freshman Students:** Admission to the Nursing major is selective; the process is competitive, and acceptance is never guaranteed. Prospective applicants must have completed high school mathematics, biology and chemistry. In addition, students must have achieved one of the following:

- Minimum 2.7 overall high school grade point average (on a 4.0 scale); and a minimum 22 ACT composite or a minimum 1100 SAT score.
- Minimum 3.0 overall high school grade point average (on a 4.0 scale); and a minimum 21 ACT composite score or a minimum 1060 SAT score.
- Minimum 3.3 overall high school grade point average (on a 4.0 scale); and a minimum 20 ACT composite score or a minimum 1020 SAT score.

**Transfer Students:** Admission to the Nursing major requires minimum 30 credit hours, a minimum 2.750 overall GPA in all coursework and a minimum 2.750 GPA in the required sciences—BSCI 21010, BSCI 21020, BSCI 20021, BSCI 30171 and CHEM 10050, CHEM 10055 or CHEM 10060—including a minimum C grade in each course. Students who have failed out of another nursing program are not eligible for admission the four-year Bachelor of Science in Nursing.

Transfer students who have successfully completed minimum 12 credit hours at Kent State University will be evaluated on their Kent State overall GPA only along with the previously described admission criteria. Transfer students from another accredited B.S.N. degree who have completed at least one laboratory or clinical course must have achieved the following for admission to Kent State's B.S.N. degree:

- Minimum 3.200 overall GPA in all college-level coursework
- Minimum 2.75 GPA for the required (or equivalent) science courses in Kent State's B.S.N. degree
- Minimum C grade on the first attempt in all nursing courses in the current nursing curriculum
- Good academic standing at current college or university

**Admission to the Accelerated Second Degree concentration:** Admission to the concentration requires a completed bachelor's degree with a

minimum overall 2.75 GPA. Accelerated students must have all college-level core and nursing prerequisite courses complete:

- Anatomy and Physiology (BSCI 21010 and BSCI 21020)
- Microbiology (BSCI 20021 or BSCI 30171)
- Genetics (BSCI 30050 or BSCI 30156)
- Chemistry (CHEM 10050, CHEM 10055 or CHEM 10060)
- Psychology (PSYC 11762)
- Human Growth and Development (NURS 20950)
- Sociology (SOC 12050 or SOC 22778)
- Statistics
- Mathematics (MATH 10772, MATH 11010, MATH 12002, MATH 10775, MATH 12011, MATH 11009, MATH 12012 or MATH 11012)
- Nutrition (NUTR 23511)
- Minimum 2.75 overall GPA and minimum 2.75 science GPA
- Minimum C grade in all science and mathematics courses

#### English Language Proficiency Requirements for International Students:

All international students must provide proof of English language proficiency (unless they meet specific exceptions) by earning a minimum 525 TOEFL score (71 on the Internet-based version), minimum 75 MELAB score, minimum 6.0 IELTS score or minimum 48 PTE Academic score, or by completing the ELS level 112 Intensive Program. For more information on international admission, visit the Office of Global Education's admission website.

## Program Learning Outcomes

Graduates of this program will be able to:

1. Meet educational eligibility requirements to take the registered nurse licensing examination (National Certification and Licensure Exam).
2. Acquire competencies based on professional standards to assume the role of the professional nurse and for career advancement, including graduate studies.
3. Apply the nursing process in providing evidence-based, culturally sensitive care to promote health and adaptation of individuals, families, groups and communities.

## University Requirements

All students in a bachelor's degree program at Kent State University must complete the following university requirements for graduation.

**NOTE:** University requirements may be fulfilled in this program by specific course requirements. Please see Program Requirements for details.

Destination Kent State: First Year Experience	1
Course is not required for students with 25 transfer credits, excluding College Credit Plus, or age 21+ at time of admission.	
Diversity Domestic/Global (DIVD/DIVG)	2 courses
Students must successfully complete one domestic and one global course, of which one must be from the Kent Core.	
Experiential Learning Requirement (ELR)	varies
Students must successfully complete one course or approved experience.	
Kent Core (see table below)	36-37
Writing-Intensive Course (WIC)	1 course
Students must earn a minimum C grade in the course.	

Upper-Division Requirement	39 (or 42)
Students must successfully complete 39 upper-division (numbered 30000 to 49999) credit hours to graduate. Students in a B.A. and/or B.S. degree in the College of Arts and Sciences must complete 42 upper-division credit hours.	
Total Credit Hour Requirement	120
Some bachelor's degrees require students to complete more than 120 credit hours.	

## Kent Core Requirements

Kent Core Composition (KCMP)	6
Kent Core Mathematics and Critical Reasoning (KMCR)	3
Kent Core Humanities and Fine Arts (KHUM/KFA) (min one course each)	9
Kent Core Social Sciences (KSS) (must be from two disciplines)	6
Kent Core Basic Sciences (KBS/KLAB) (must include one laboratory)	6-7
Kent Core Additional (KADL)	6
<b>Total Credit Hours:</b>	<b>36-37</b>

## Program Requirements

### Major Requirements

Code	Title	Credit Hours
<b>Major Requirements (courses count in major GPA)</b>		
BSCI 20021	BASIC MICROBIOLOGY (min C grade for either course)	3
or BSCI 30171	GENERAL MICROBIOLOGY	
BSCI 30050	HUMAN GENETICS (min C grade for either course)	3
or BSCI 30156	ELEMENTS OF GENETICS	
NURS 20025	PHARMACOLOGY AND ALTERATIONS IN PHYSIOLOGICAL FUNCTIONING I (min C grade)	3
NURS 20950	HUMAN GROWTH AND DEVELOPMENT FOR HEALTH PROFESSIONALS (min C grade)	3
NURS 30010	PARENT AND NEWBORN NURSING (min C grade)	4
NURS 30020	HEALTH CARE OF CHILDREN (min C grade)	4
NURS 30025	PHARMACOLOGY AND ALTERATIONS IN PHYSIOLOGICAL FUNCTIONING II (min C grade)	3
NURS 30035	NURSING OF ADULTS ACROSS THE LIFESPAN (min C grade)	9
NURS 30050	BASIC NURSING INFORMATICS (min C grade)	2
NURS 30070	HEALTH CARE POLICY (WIC) (min C grade) <sup>1</sup>	3
NURS 40010	NURSING OF THE CRITICALLY ILL (min C grade)	4
NURS 40020	COMMUNITY HEALTH NURSING (DIVG) (min C grade)	4
NURS 40030	PSYCHIATRIC MENTAL HEALTH NURSING (min C grade)	4
NURS 40045	INTEGRATION OF LEADERSHIP AND MANAGEMENT IN NURSING (ELR) (min C grade)	6
NUTR 23511	SCIENCE OF HUMAN NUTRITION (KBS)	3
Statistics Elective, choose from the following:		3-4
MATH 10041	INTRODUCTORY STATISTICS (KMCR) (min C grade)	
NURS 31010	APPLICATIONS FOR STATISTICAL FINDINGS FOR EVIDENCE BASED PRACTICE (min C grade)	

PH 30002	INTRODUCTORY BIOSTATISTICS (min C grade)	
PSYC 21621	QUANTITATIVE METHODS IN PSYCHOLOGY I (min C grade)	
<b>Additional Requirements (courses do not count in major GPA)</b>		
BSCI 21010	ANATOMY AND PHYSIOLOGY I (KBS) (KLAB) (min C grade) <sup>2</sup>	4
BSCI 21020	ANATOMY AND PHYSIOLOGY II (min C grade) <sup>2</sup>	4
CHEM 10050	FUNDAMENTALS OF CHEMISTRY (KBS) (min C grade in either course)	3-4
or CHEM 10055	MOLECULES OF LIFE (KBS)	
or CHEM 10060	GENERAL CHEMISTRY I (KBS)	
PSYC 11762	GENERAL PSYCHOLOGY (DIVD) (KSS)	3
SOC 12050	INTRODUCTION TO SOCIOLOGY (DIVD) (KSS)	3
or SOC 22778	SOCIAL PROBLEMS (DIVG) (KSS)	
UC 10097	DESTINATION KENT STATE: FIRST YEAR EXPERIENCE	1
Mathematics Elective, choose from the following (min C grade):		
MATH 10772	MODELING ALGEBRA PLUS (KMCR)	
MATH 10775	ALGEBRA FOR CALCULUS PLUS (KMCR)	
MATH 11009	MODELING ALGEBRA (KMCR)	
MATH 11010	ALGEBRA FOR CALCULUS (KMCR)	
MATH 11012	INTUITIVE CALCULUS (KMCR)	
MATH 12002	ANALYTIC GEOMETRY AND CALCULUS I (KMCR)	
MATH 12011	CALCULUS WITH PRECALCULUS I (KMCR)	
MATH 12012	CALCULUS WITH PRECALCULUS II (KMCR)	
Kent Core Composition		6
Kent Core Humanities and Fine Arts (minimum one course from each)		9
Kent Core Additional or General Elective		3
<b>Additional Requirements or Concentration</b>		
Choose from the following:		20
Additional Requirements for Students Not Declaring a Concentration		
Accelerated Second Degree Concentration		

Minimum Total Credit Hours: 120

<sup>1</sup> Students who travel abroad can opt to take NURS 40089 to fulfill the NURS 30070 requirement.

<sup>2</sup> Students who have successfully completed ATTR 25057 (or EXSC 25057) and ATTR 25058 (or EXSC 25058) with a minimum C grade may use those courses in place of BSCI 21010 and BSCI 21020.

### Additional Requirements for Students Not Declaring a Concentration

Code	Title	Credit Hours
<b>Major Requirements (courses count in major GPA) (min C grade required in all courses)</b>		
NURS 10060	INTRODUCTION TO PROFESSIONAL NURSING PRACTICE	3
NURS 20020	FOUNDATIONS OF ASSESSMENT AND COMMUNICATION IN NURSING <sup>1</sup>	3
NURS 20030	FOUNDATIONS OF NURSING INTERVENTIONS <sup>1</sup>	5
NURS 40005	PROFESSIONAL NURSING DEVELOPMENT	3
NURS 40872	INTRODUCTION TO EVIDENCE BASED PRACTICE	3

NURS 45060	NCLEX REVIEW PREPARATION	3
Minimum Total Credit Hours:		20

<sup>1</sup> Students admitted into LPN to BSN sequence and the LPN and Allied Health sequence will take NURS 20040 instead of NURS 20020 and NURS 20030.

### Accelerated Second Degree Concentration Requirements

Code	Title	Credit Hours
<b>Concentration Requirements (courses count in major GPA) (min C grade required in all courses)</b>		
NURS 20040	FUNDAMENTALS OF NURSING	8
NURS 40025	PROFESSIONAL AND EVIDENCE-BASED PRACTICE	3
NURS 45075	NCLEX SUCCESS	2
<b>Additional Requirements (courses do not count in major GPA)</b>		
General Electives (total credit hours depends on earning 120 credit hours, including 39 upper-division credit hours)		7
Minimum Total Credit Hours:		20

### Progression Requirements

- Students must meet the following requirements in order to be admitted to the Professional Nursing Sequence:
  - Students are eligible to make application during the semester in which they anticipate completing or have completed, 30 credit hours.
  - Students must have a 2.750 overall GPA, and a 2.750 GPA in the required sciences (BSCI 21010; and BSCI 21020; and BSCI 20021 or BSCI 30171; and CHEM 10050 or CHEM 10055 or CHEM 10060) to be eligible for admission.
  - Students must earn a 2.000 (grade of C) in each of the prerequisite science courses (BSCI 21010; and BSCI 21020; and BSCI 20021 or BSCI 30171; and CHEM 10050 or CHEM 10055 or CHEM 10060) to be eligible for admission.
  - Completion of one of the following math courses with a grade of C or better: MATH 10772, MATH 10775, MATH 11009, MATH 11010, MATH 11012, MATH 12002, MATH 12011 or MATH 12012.
- All students in the B.S.N. degree must have a minimum overall 2.000 GPA each semester to continue in the program; failure to achieve this GPA each semester will result in not permitted to continue in the program.
- All students in the B.S.N. degree must have earned a minimum C grade in each science course required in the B.S.N. curriculum. All required chemistry and biology courses must be successfully completed with a minimum C grade to graduate with the B.S.N. degree.
- Students in the traditional and accelerated concentration must have a minimum C grade in each of the sophomore nursing courses to progress to the junior nursing sequence.
- Students in the traditional and accelerated concentration must have a minimum C grade in each of the junior nursing courses (NURS 30010, NURS 30020 and NURS 30035) to progress to the senior nursing sequence.
- Students in the traditional and accelerated Nursing major must have a minimum C grade in each of the senior nursing courses



(NURS 40005, NURS 40010, NURS 40020, NURS 40030, NURS 40045 and NURS 40872) to progress and graduate.

- Students in the accelerated Nursing concentration and LPN and Allied Health to BSN sequence may take junior- and senior-level courses concurrently as specified by their curriculum.
- Students in the traditional Nursing major may take a maximum of two clinical courses each semester.
- Students in the accelerated Nursing concentration and LPN and Allied Health to BSN sequence are permitted to take three clinical courses each term, as specified by their curriculum.
- Students in the accelerated concentration and LPN and Allied Health to BSN sequence who do not earn a C or better in any nursing courses, will be transferred to the traditional BSN course schedule.

**LPN and Allied Health to BSN Sequence:** Students who are pursuing the nursing major will need to complete all core and prerequisite coursework to be admitted to the Professional Nursing Sequence. Admission is competitive and is never guaranteed. Admission checklist for the Professional Nursing Sequence for LPN and Allied Health to BSN students:

- Students are eligible to make application during the semester in which they anticipate completing, or have completed the core courses, along with:
  - NURS 10060 INTRODUCTION TO PROFESSIONAL NURSING PRACTICE
  - BSCI 21010 ANATOMY AND PHYSIOLOGY I (KBS) (KLAB)
  - BSCI 21020 ANATOMY AND PHYSIOLOGY II
  - BSCI 20021 BASIC MICROBIOLOGY or BSCI 30171 GENERAL MICROBIOLOGY
  - BSCI 30050 HUMAN GENETICS or BSCI 30156 ELEMENTS OF GENETICS
  - Chemistry electives (CHEM 10050 FUNDAMENTALS OF CHEMISTRY (KBS) , CHEM 10055 MOLECULES OF LIFE (KBS) or CHEM 10060 GENERAL CHEMISTRY I (KBS) )
  - MATH elective, (Choose one: MATH 10772 MODELING ALGEBRA PLUS (KMCR) , MATH 11010 ALGEBRA FOR CALCULUS (KMCR) , MATH 12002 ANALYTIC GEOMETRY AND CALCULUS I (KMCR) , MATH 10775 ALGEBRA FOR CALCULUS PLUS (KMCR) , MATH 12011 CALCULUS WITH PRECALCULUS I (KMCR) , MATH 11009 MODELING ALGEBRA (KMCR) , MATH 12012 CALCULUS WITH PRECALCULUS II (KMCR) , or MATH 11012 INTUITIVE CALCULUS (KMCR) )
  - PSYC 11762 GENERAL PSYCHOLOGY (DIVD) (KSS)
  - NURS 20950 HUMAN GROWTH AND DEVELOPMENT FOR HEALTH PROFESSIONALS
  - NUTR 23511 SCIENCE OF HUMAN NUTRITION (KBS)
  - SOC 12050 INTRODUCTION TO SOCIOLOGY (DIVD) (KSS) or SOC 22778 SOCIAL PROBLEMS (DIVG) (KSS)
  - Approved Statistics Elective
  - UC 10097 DESTINATION KENT STATE: FIRST YEAR EXPERIENCE
- Students must have a 2.750 cumulative GPA, and a 2.750 science GPA
- Students must earn a C grade or better in all science and math courses.
- Unrestricted Practice license
  - Priority Admission is given to students with two or more years of practice in their field.

The Dean may review the student's educational files to determine if adequate progression has been made.

## Graduation Requirements

Minimum Major GPA	Minimum Overall GPA
2.000	2.000

- Minimum C grade is required in all specified NURS, BSCI, CHEM and Kent Core MATH courses.
- Students in the Nursing program must earn a combined minimum 2.750 GPA in BSCI 21010, BSCI 21020 **and** BSCI 20021 (or BSCI 30171) **and** CHEM 10050, CHEM 10055 or CHEM 10060.

## Roadmaps

- Nursing Major (no concentration)
- Accelerated Second Degree Concentration

## NURSING MAJOR (NO CONCENTRATION)

This roadmap is a recommended semester-by-semester plan of study for this major. However, courses designated as critical (!) must be completed in the semester listed to ensure a timely graduation.

<b>Semester One</b>		<b>Credits</b>
!	BSCI 21010 ANATOMY AND PHYSIOLOGY I (KBS) (KLAB)	4
	CHEM 10050 FUNDAMENTALS OF CHEMISTRY (KBS) or CHEM 10055 or MOLECULES OF LIFE (KBS) or CHEM 10060 or GENERAL CHEMISTRY I (KBS)	3-4
	NURS 10060 INTRODUCTION TO PROFESSIONAL NURSING PRACTICE	3
	UC 10097 DESTINATION KENT STATE: FIRST YEAR EXPERIENCE	1
!	Mathematics Elective	3-5
Credit Hours		14
<b>Semester Two</b>		
	BSCI 21020 ANATOMY AND PHYSIOLOGY II	4
	BSCI 20021 BASIC MICROBIOLOGY or BSCI 30171 or GENERAL MICROBIOLOGY	3-4
	PSYC 11762 GENERAL PSYCHOLOGY (DIVD) (KSS)	3
	Kent Core Requirement	3
	Kent Core Requirement	3
Credit Hours		16
<b>Semester Three</b>		
Requirement: Students must be admitted to the Professional Nursing Sequence to progress.		
	BSCI 30050 HUMAN GENETICS or BSCI 30156 or ELEMENTS OF GENETICS	3
!	NURS 20020 FOUNDATIONS OF ASSESSMENT AND COMMUNICATION IN NURSING	3
	NURS 20950 HUMAN GROWTH AND DEVELOPMENT FOR HEALTH PROFESSIONALS	3
	SOC 12050 INTRODUCTION TO SOCIOLOGY (DIVD) (KSS) or SOC 22778 or SOCIAL PROBLEMS (DIVG) (KSS)	3
	Kent Core Requirement	3
Credit Hours		15
<b>Semester Four</b>		
	NURS 20025 PHARMACOLOGY AND ALTERATIONS IN PHYSIOLOGICAL FUNCTIONING I	3
!	NURS 20030 FOUNDATIONS OF NURSING INTERVENTIONS	5
	NUTR 23511 SCIENCE OF HUMAN NUTRITION (KBS)	3
	Statistics Elective	3
Credit Hours		14
<b>Semester Five</b>		
Requirement: minimum overall 2.000 GPA		
	NURS 30025 PHARMACOLOGY AND ALTERATIONS IN PHYSIOLOGICAL FUNCTIONING II	3
!	NURS 30035 NURSING OF ADULTS ACROSS THE LIFESPAN	9
	NURS 30070 HEALTH CARE POLICY (WIC)	3
Credit Hours		15
<b>Semester Six</b>		
!	NURS 30010 PARENT AND NEWBORN NURSING	4
!	NURS 30020 HEALTH CARE OF CHILDREN	4

!	NURS 30050 BASIC NURSING INFORMATICS	2
	NURS 40872 INTRODUCTION TO EVIDENCE BASED PRACTICE	3
Kent Core Requirement		3
Credit Hours		16
<b>Semester Seven</b>		
Requirement: minimum overall 2.000 GPA		
	NURS 40005 PROFESSIONAL NURSING DEVELOPMENT	3
!	NURS 40020 COMMUNITY HEALTH NURSING (DIVG)	4
!	NURS 40030 PSYCHIATRIC MENTAL HEALTH NURSING	4
Kent Core Requirement		3
Credit Hours		14
<b>Semester Eight</b>		
!	NURS 40010 NURSING OF THE CRITICALLY ILL	4
!	NURS 40045 INTEGRATION OF LEADERSHIP AND MANAGEMENT IN NURSING (ELR)	6
!	NURS 45060 NCLEX REVIEW PREPARATION	3
Kent Core Requirement or General Elective		3
Credit Hours		16
Minimum Total Credit Hours:		120

## Accelerated Second Degree Concentration

This roadmap is a recommended semester-by-semester plan of study for this major. However, courses designated as critical (!) must be completed in the semester listed to ensure a timely graduation.

Semester Prerequisite	Credits
BSCI 20021 BASIC MICROBIOLOGY or BSCI 30171 or GENERAL MICROBIOLOGY	3
BSCI 21010 ANATOMY AND PHYSIOLOGY I (KBS) (KLAB)	4
BSCI 21020 ANATOMY AND PHYSIOLOGY II	4
BSCI 30050 HUMAN GENETICS or BSCI 30156 or ELEMENTS OF GENETICS	3
NURS 20950 HUMAN GROWTH AND DEVELOPMENT FOR HEALTH PROFESSIONALS	3
NUTR 23511 SCIENCE OF HUMAN NUTRITION (KBS)	3
PSYC 11762 GENERAL PSYCHOLOGY (DIVD) (KSS)	3
SOC 12050 INTRODUCTION TO SOCIOLOGY (DIVD) (KSS)	3
CHEM 10050 FUNDAMENTALS OF CHEMISTRY (KBS) or CHEM 10055 or MOLECULES OF LIFE (KBS) or CHEM 10060 or GENERAL CHEMISTRY I (KBS)	3
Mathematics Elective	3
Statistics Elective	3
Kent Core Composition	6
Kent Core Humanities or Fine Arts	3
Kent Core Humanities	3
Kent Core Fine Arts	3
Kent Core Additional	3
General Electives	7
<b>Credit Hours</b>	<b>60</b>

### Semester One

Requirement: combined minimum 2.750 GPA in CHEM 10050 or CHEM 10055 or CHEM 10060; and BSCI 21010; and BSCI 21020; and BSCI 20021 or BSCI 30171

NURS 20040 FUNDAMENTALS OF NURSING	8
NURS 30050 BASIC NURSING INFORMATICS	2
NURS 30070 HEALTH CARE POLICY (WIC)	3
UC 10097 DESTINATION KENT STATE: FIRST YEAR EXPERIENCE	1
<b>Credit Hours</b>	<b>14</b>

### Semester Two

NURS 20025 PHARMACOLOGY AND ALTERATIONS IN PHYSIOLOGICAL FUNCTIONING I	3
NURS 30025 PHARMACOLOGY AND ALTERATIONS IN PHYSIOLOGICAL FUNCTIONING II	3
NURS 30035 NURSING OF ADULTS ACROSS THE LIFESPAN	9
<b>Credit Hours</b>	<b>15</b>

### Semester Three

NURS 30010 PARENT AND NEWBORN NURSING	4
NURS 30020 HEALTH CARE OF CHILDREN	4
NURS 40020 COMMUNITY HEALTH NURSING (DIVG)	4
NURS 40025 PROFESSIONAL AND EVIDENCE-BASED PRACTICE	3
<b>Credit Hours</b>	<b>15</b>

### Semester Four

Requirement: minimum overall 2.000 GPA

NURS 40010 NURSING OF THE CRITICALLY ILL	4
NURS 40030 PSYCHIATRIC MENTAL HEALTH NURSING	4
NURS 40045 INTEGRATION OF LEADERSHIP AND MANAGEMENT IN NURSING (ELR)	6
NURS 45075 NCLEX SUCCESS	2
<b>Credit Hours</b>	<b>16</b>
<b>Minimum Total Credit Hours:</b>	<b>120</b>

## Nursing - D.N.P.

### College of Nursing

Henderson Hall  
Kent Campus  
330-672-7930  
nursing@kent.edu  
www.kent.edu/nursing

## Description

The Doctor of Nursing Practice degree in Nursing is the terminal degree for nurses who want to advance their knowledge of nursing practice, gain leadership and technology skills and become clinical scholars. Students develop leadership skills to affect health outcomes for individuals and populations by translating scientific evidence into clinical interventions, managing healthcare systems and collaborating with other health care provider

### Fully Offered At:

- Online

## Accreditation

The D.N.P. degree in Nursing at Kent State University is accredited by the Commission on Collegiate Nursing Education, 655 K Street, NW, Suite 750, Washington, DC 20001, 202-887-6791.

## Admission Requirements

- Bachelor's degree in nursing<sup>1</sup> or master's degree in advanced practice nursing<sup>2</sup> that is accredited by the Commission on Collegiate Nursing Education or the Accreditation Commission for Education in Nursing for unconditional admission
- Minimum overall 3.000 GPA on a 4.000 point scale for unconditional admission
- Completion of an undergraduate- or graduate-level statistics course with a minimum C grade
- Active, unrestricted registered nurse license in the state in which the student's practica will be completed
- GRE scores, no more than five years old (only for post-Bachelor of Science in Nursing applicants)
- Résumé or curriculum vitae that demonstrates professional experience in nursing
- Essay (300 words) describing professional goals and reasons for seeking the professional practice doctorate
- Three letters of reference from health care professionals or academic faculty who can speak to the applicant's professional and academic abilities
- Pre-admission interview

- English language proficiency - all international students must provide proof of English language proficiency (unless they meet specific exceptions) by earning one of the following:
  - Minimum 560 TOEFL PBT score (paper-based version)
  - Minimum 83 TOEFL IBT score (Internet-based version)
  - Minimum 78 MELAB score
  - Minimum 6.5 IELTS score
  - Minimum 55 PTE score
  - Minimum 110 Duolingo English Test score

Students selected for admission to the nursing program must meet the College of Nursing's Clinical Compliance Policy. For more information about graduate admissions, please visit the Graduate Studies admission website. For more information on international admission, visit the Office of Global Education's admission website.

- Upon admission to the D.N.P. degree, students who hold only a CCNE- or NLNAC-accredited bachelor's degree in nursing will be admitted also to the M.S.N. degree. This will allow students to complete M.S.N. coursework and enroll in some D.N.P. coursework after successfully completing their first two full-time semesters of graduate study. Students must first complete M.S.N. coursework, earn the M.S.N. degree and obtain APRN national certification before they can continue with D.N.P. coursework and earn the D.N.P. degree.
- Students with a master's degree must submit proof of current, national certification as an advanced practice registered nurse within their first semester or prior to beginning their practicum hours, whichever comes first.

## Program Learning Outcomes

Graduates of this program will be able to:

- Develop systems and strategies to promote health and fiscal outcomes across the healthcare continuum.
- Provide expert, advanced nursing care to select populations within a variety of settings based on evidence, ethics, theory, professional standards and models of care.
- Provide leadership and interdisciplinary consultation and collaboration to plan, implement and evaluate programs of care delivery to improve health outcomes.
- Synthesize and translate evidence for implementation and dissemination to improve healthcare outcomes.

## Program Requirements

### Major Requirements

Code	Title	Credit Hours
<b>Major Requirements (min B grade in all courses)</b>		
HI 80411	CLINICAL ANALYTICS	3
NURS 70592	DOCTORAL NURSING PRACTICE PRACTICUM <sup>1</sup>	7
NURS 70620	DOCTOR OF NURSING PRACTICE SEMINAR	3
NURS 70630	RESEARCH METHODS FOR EVIDENCE BASED PRACTICE	3
NURS 70635	APPLICATION OF EVIDENCE BASED PRACTICE	3
NURS 70640	ADVANCED LEADERSHIP IN HEALTHCARE	3
NURS 70650	ORGANIZATIONAL SYSTEMS	3

NURS 70670	QUALITY IMPROVEMENT IN HEALTHCARE DELIVERY	3
NURS 70680	POPULATION HEALTH	3
NURS 70685	HEALTHCARE FINANCE AND ECONOMIC POLICY	3
Minimum Total Credit Hours:		34

- Students must be continuously enrolled in NURS 70592 and complete a minimum of 7 credit hours (525 clock hours) of practicum in a clinical setting. If the student is unable to complete and successfully defend the scholarly project after being enrolled continuously for 7 credit hours (525 clock hours), the student must continuously enroll in 1 credit hour of NURS 70592 each semester, until the scholarly project is successfully defended. The IP grade will be used until the scholarly project is successfully defended, at which time all IP grades in NURS 70592 will be changed to satisfactory grades.

## Graduation Requirements

Minimum Major GPA	Minimum Overall GPA
-	3.000

- Minimum B grade in all courses <sup>1</sup>
- Completion of 525 clinical practice hours
- Submission and defense of a scholarly project to a committee that includes, at minimum, the student's academic advisor and two other doctoral-prepared members. The project must result in a manuscript suitable for publication.

- If the student does not earn a minimum B grade, the student must repeat the course and cannot take other courses that require that course as a prerequisite until the course is successfully repeated. If the student repeats the course and does not earn a minimum B grade, the student may be dismissed from the D.N.P. degree.

## Nursing - M.S.N.

### College of Nursing

Henderson Hall  
Kent Campus  
330-672-7930  
nursing@kent.edu  
www.kent.edu/nursing

## Description

The Master of Science in Nursing degree meets the educational eligibility requirements for national certification in the respective area of study. The degree program can be completed in four to five semesters (two full academic years) for full-time students. Part-time students typically take three to four years to complete the program. Completion of a thesis is optional.

The Nursing major comprises the following concentrations:

- The **Adult Gerontology Acute Care Nurse Practitioner** concentration provides a knowledge base for advanced nursing care to adults with complex, acute and chronic illnesses. Clinical practice occur in a variety of hospital settings such as specialty clinics, emergency departments and acute, sub-acute and intensive/critical care areas.

- The **Adult Gerontology Clinical Nurse Specialist** concentration fosters acquisition of the needed competencies to care for patients spanning the entire adult to older-adult spectrum. Class and clinical experiences focus on providing advanced nursing care across the health continuum, from wellness to acute care. Students develop competencies in direct care, consultation, systems leadership, collaboration, coaching, research, ethical decision-making, moral agency and advocacy.
- The **Adult Gerontology Primary Care Nurse Practitioner** concentration allows students to develop advanced practice nursing competencies in health promotion, risk detection, illness prevention and management of acute and chronic illnesses in adults and older adults. Clinical experiences involve direct care in collaboration with other health professionals to maximize the effectiveness of community and health care system services. Clinical practica include primary care offices, such as internal medicine and family practice clinics, managed care offices, emergency departments, free clinics and long-term care and occupational health settings.
- The **Family Nurse Practitioner** concentration allows students to acquire advanced practice nursing competencies to provide continuity of health care to persons across the life span, as well as to maximize the effectiveness of community and health care system services through collaboration with other health professionals. Clinical experiences are offered in a variety of ambulatory care settings and specialty clinics in primary care offices, including family practice, internal medicine, managed care offices, emergency departments, long-term care facilities and academic and occupational health settings.
- The **Nurse Educator** concentration gives students the advanced nursing knowledge in curriculum development, instruction and evaluation for traditional and online learning in academic and staff development settings and the development of in-depth knowledge and expertise in an area of clinical specialty. Emphasis is placed on application of educational theories and principles in curriculum development and evaluation and acquisition of skills in role development as a nurse educator. Students engage in individualized practicum experiences with master educators to gain experience in their desired field of nursing education.
- The **Nursing Administration and Health Systems Leadership** concentration integrates management, leadership and nursing knowledge for students to develop skills and competencies in administration, systems leadership and advanced nursing.
- The **Pediatric Primary Care Nurse Practitioner** concentration focuses on health promotion, illness prevention, risk identification and acute and chronic care of infants, children and adolescents. Practicum experiences take place in outpatient primary care and specialty settings; the experiences offer the opportunity for students to provide individualized and culturally competent advanced practice nursing care to children within the context of their families.
- The **Psychiatric Mental Health Nurse Practitioner** concentration builds on core advanced practice nursing knowledge. The program focuses on knowledge and skill development in mental health assessment and diagnostic reasoning, prescribing and medication management and advanced therapeutic modalities such as individual, group and family psychotherapy.
- The **Women's Health Nurse Practitioner** concentration prepares students to provide the highest level of primary nursing care for women involving health promotion and disease prevention. Students gain competency in advanced nursing management of common acute and chronic conditions. Students practice in direct care and

in collaboration with other health care professionals. Practicum experiences foster development of clinical judgment and primary care skills through faculty mentorship and clinical preceptors in a variety of ambulatory care settings and specialty clinics.

### Fully Offered At:

- Online (concentrations Adult Gerontology Clinical Nurse Specialist, Nurse Educator, Nursing Administration and Health Systems Leadership, Women's Health Nurse Practitioner)
- Kent Campus (concentrations Adult Gerontology Acute Care Nurse Practitioner, Adult Gerontology Primary Care Nurse Practitioner, Family Nurse Practitioner, Pediatric Primary Care Nurse Practitioner, Psychiatric Mental Health Nurse Practitioner)

## Accreditation

The Master of Science in Nursing degree at Kent State University is accredited by the Commission on Collegiate Nursing Education, 655 K Street, NW, Suite 750, Washington, DC 20001, 202-887-6791.

## Admission Requirements

- Bachelor's and/or graduate degree from an accredited registered nursing program<sup>1</sup> for unconditional admission
- Minimum 3.000 undergraduate/graduate GPA on a 4.000 point scale<sup>2</sup> for unconditional admission
- Completion of an undergraduate statistics course with a minimum C grade.
- Active, unrestricted registered nurse license in the state in which clinical coursework will be completed.
- Résumé or curriculum vitae.
- Essay (2-3 pages) describing reasons for seeking the master's degree in the identified specialty and professional goals.
- Three letters of reference from a health care professional or academic faculty who can speak to the applicant's professional and academic abilities.
- English language proficiency - all international students must provide proof of English language proficiency (unless they meet specific exceptions) by earning one of the following:
  - Minimum 560 TOEFL PBT score (paper-based version)
  - Minimum 83 TOEFL IBT score (Internet-based version)
  - Minimum 78 MELAB score
  - Minimum 6.5 IELTS score
  - Minimum 55 PTE score
  - Minimum 110 Duolingo English Test score

Admission to the M.S.N. degree is a selective process. In the selection process for applicants, program faculty will consider years of registered nurse experience, professional experience relevant to the specific M.S.N. concentration and evidence of scholarship and involvement in the nursing profession as indicated on the applicant's résumé, along with GPA. Students selected for admission to the nursing program must meet the College of Nursing's Clinical Compliance Policy. For more information about graduate admission, please visit the Graduate Studies website. For more information on international admission, visit the Office of Global Education's admission website.



<sup>1</sup> Applicants with an RN license and a bachelor's degree in a non-nursing field will be considered based on faculty review of a portfolio submitted with the application.

<sup>2</sup> Applicants with a lower GPA may be considered for conditional admission according to the University's Graduate Student Admission Policy.

## Program Learning Outcomes

Graduates of this program will be able to:

1. Acquire educational eligibility to meet standards for advanced practice certification or other advanced professional distinction.
2. Acquire competencies based on professional standards to assume advanced roles in nursing and for leadership and career advancement, including doctoral study.
3. Communicate, integrate and apply advanced nursing knowledge and skills to provide evidence-based, culturally sensitive nursing care and promote quality outcomes in nursing and health care.

## Program Requirements

### Major Requirements

Code	Title	Credit Hours
<b>Major Requirements</b>		
NURS 60010	ADVANCED NURSING INFORMATICS	3
NURS 60025	HEALTH POLICY AND ADVANCED NURSING PRACTICE	3
NURS 60101	THEORETICAL BASIS FOR NURSING PRACTICE I	3
NURS 60403	METHODS OF INQUIRY	3
<b>Concentrations</b>		
Choose from the following:		23-35
Adult Gerontology Acute Care Nurse Practitioner		
Adult Gerontology Clinical Nurse Specialist		
Adult Gerontology Primary Care Nurse Practitioner		
Family Nurse Practitioner		
Nurse Educator		
Nursing Administration and Health Systems Leadership		
Pediatric Primary Care Nurse Practitioner		
Psychiatric Mental Health Nurse Practitioner		
Women's Health Nurse Practitioner		
Minimum Total Credit Hours:		35-47

### Adult Gerontology Acute Care Nurse Practitioner Concentration Requirements

Code	Title	Credit Hours
<b>Concentration Requirements</b>		
NURS 60015	ADVANCED HEALTH ASSESSMENT	3
NURS 60045	PATHOPHYSIOLOGY FOR THE ADVANCED PRACTICE REGISTERED NURSE	3
NURS 60129	ADULT GERONTOLOGY ACUTE CARE NURSE PRACTITIONER I	3
NURS 60130	ADULT GERONTOLOGY ACUTE CARE NURSE PRACTITIONER II	1
NURS 60230	ADULT GERONTOLOGY ACUTE CARE NURSE PRACTITIONER III	4

NURS 60330	ADULT GERONTOLOGY ACUTE CARE NURSE PRACTITIONER IV	2
NURS 60441	PHARMACOLOGY FOR ADVANCED PRACTICE NURSING	3
NURS 60506	CLINICAL DIAGNOSTICS FOR ADVANCED PRACTICE NURSES	3
NURS 61092	ADULT GERONTOLOGY ACUTE CARE NURSE PRACTITIONER I PRACTICUM	2
NURS 61392	ADULT GERONTOLOGY ACUTE CARE NURSE PRACTITIONER II PRACTICUM	2
NURS 62392	ADULT GERONTOLOGY ACUTE CARE NURSE PRACTITIONER III PRACTICUM	2
NURS 63392	ADULT GERONTOLOGY ACUTE CARE NURSE PRACTITIONER IV PRACTICUM	2

Minimum Total Credit Hours: 30

### Adult Gerontology Clinical Nurse Specialist Concentration Requirements

Code	Title	Credit Hours
<b>Major Requirements</b>		
NURS 60015	ADVANCED HEALTH ASSESSMENT	3
NURS 60045	PATHOPHYSIOLOGY FOR THE ADVANCED PRACTICE REGISTERED NURSE	3
NURS 60110	ADULT GERONTOLOGY CLINICAL NURSE SPECIALIST I	3
NURS 60210	ADULT GERONTOLOGY CLINICAL NURSE SPECIALIST II	3
NURS 60310	ADULT GERONTOLOGY CLINICAL NURSE SPECIALIST III	3
NURS 60441	PHARMACOLOGY FOR ADVANCED PRACTICE NURSING	3
NURS 60506	CLINICAL DIAGNOSTICS FOR ADVANCED PRACTICE NURSES	3
NURS 61192	ADULT GERONTOLOGY CLINICAL NURSE SPECIALIST I PRACTICUM	2
NURS 62192	ADULT GERONTOLOGY CLINICAL NURSE SPECIALIST II PRACTICUM	3
NURS 63192	ADULT GERONTOLOGY CLINICAL NURSE SPECIALIST III PRACTICUM	2

Minimum Total Credit Hours: 28

### Adult Gerontology Primary Care Nurse Practitioner Concentration Requirements

Code	Title	Credit Hours
<b>Concentration Requirements</b>		
NURS 60015	ADVANCED HEALTH ASSESSMENT	3
NURS 60045	PATHOPHYSIOLOGY FOR THE ADVANCED PRACTICE REGISTERED NURSE	3
NURS 60120	ADULT/GERONTOLOGY PRIMARY CARE I	3
NURS 60125	FAMILY AND ADULT GERONTOLOGY NURSE PRACTITIONER ROLE	1
NURS 60220	PRIMARY CARE II: CHRONICALLY ILL ADULTS	3
NURS 60320	ADULT/GERONTOLOGY PRIMARY CARE III	3
NURS 60441	PHARMACOLOGY FOR ADVANCED PRACTICE NURSING	3
NURS 60506	CLINICAL DIAGNOSTICS FOR ADVANCED PRACTICE NURSES	3

NURS 61292	ADULT/GERONTOLOGY PRIMARY CARE I PRACTICUM	2
NURS 61892	FAMILY AND ADULT/GERONTOLOGY NURSE PRACTITIONER ROLE PRACTICUM	1
NURS 62292	PRIMARY CARE II PRACTICUM: CHRONICALLY ILL ADULTS	2
NURS 63692	ADULT GERONTOLOGY COMPREHENSIVE PRIMARY CARE III PRACTICUM	2
Minimum Total Credit Hours:		29

### Family Nurse Practitioner Concentration Requirements

Code	Title	Credit Hours
<b>Concentration Requirements</b>		
NURS 60015	ADVANCED HEALTH ASSESSMENT	3
NURS 60045	PATHOPHYSIOLOGY FOR THE ADVANCED PRACTICE REGISTERED NURSE	3
NURS 60120	ADULT/GERONTOLOGY PRIMARY CARE I	3
NURS 60125	FAMILY AND ADULT GERONTOLOGY NURSE PRACTITIONER ROLE	1
NURS 60160	PRIMARY CARE PEDIATRICS	3
NURS 60220	PRIMARY CARE II: CHRONICALLY ILL ADULTS	3
NURS 60325	PRIMARY CARE: FAMILY HEALTH AND CHRONIC ILLNESS	4
NURS 60441	PHARMACOLOGY FOR ADVANCED PRACTICE NURSING	3
NURS 60506	CLINICAL DIAGNOSTICS FOR ADVANCED PRACTICE NURSES	3
NURS 61292	ADULT/GERONTOLOGY PRIMARY CARE I PRACTICUM	2
NURS 61692	PRIMARY CARE PEDIATRICS PRACTICUM	2
NURS 61892	FAMILY AND ADULT/GERONTOLOGY NURSE PRACTITIONER ROLE PRACTICUM	1
NURS 62292	PRIMARY CARE II PRACTICUM: CHRONICALLY ILL ADULTS	2
NURS 63292	PRIMARY CARE: FAMILY HEALTH AND CHRONIC ILLNESS PRACTICUM	2
Minimum Total Credit Hours:		35

### Nurse Educator Concentration Requirements

Code	Title	Credit Hours
<b>Major Requirements</b>		
NURS 60015	ADVANCED HEALTH ASSESSMENT	3
NURS 60045	PATHOPHYSIOLOGY FOR THE ADVANCED PRACTICE REGISTERED NURSE	3
NURS 60441	PHARMACOLOGY FOR ADVANCED PRACTICE NURSING	3
NURS 60592	NURSING EDUCATION PRACTICUM	3
NURS 60601	CURRICULUM AND INSTRUCTION IN NURSING EDUCATION	3
NURS 60602	ROLES AND EVALUATION FOR NURSING EDUCATION CURRICULA	3
NURS 60605	NURSING EDUCATION WITH TECHNOLOGY	2
NURS 60607	CLINICAL NURSING AND EDUCATION ISSUES IN A SPECIALTY AREA	1
NURS 67092	CLINICAL NURSING AND EDUCATION ISSUES IN A SPECIALTY AREA PRACTICUM	2
Minimum Total Credit Hours:		23

### Nursing Administration and Health Systems Leadership Concentration Requirements

Code	Title	Credit Hours
<b>Major Requirements</b>		
NURS 60014	LEADERSHIP IN NURSING AND HEALTH CARE MANAGEMENT	3
NURS 60020	LEGAL AND REGULATORY MANAGEMENT FOR NURSE ADMINISTRATORS	3
NURS 60024	HEALTH CARE ORGANIZATION STRUCTURE AND BEHAVIOR	3
NURS 60315	BUDGETARY AND FISCAL MANAGEMENT FOR NURSES	3
NURS 64002	PROGRAM DEVELOPMENT AND EVALUATION FOR NURSE ADMINISTRATORS	3
NURS 64202	NURSING ADMINISTRATION AND HEALTH SYSTEMS LEADERSHIP I SEMINAR	2
NURS 64292	NURSING ADMINISTRATION AND HEALTH SYSTEMS LEADERSHIP I PRACTICUM	2
NURS 64302	NURSING ADMINISTRATION AND HEALTH SYSTEMS LEADERSHIP II SEMINAR	2
NURS 64392	NURSING ADMINISTRATION AND HEALTH SYSTEMS LEADERSHIP II PRACTICUM	2
Minimum Total Credit Hours:		23

### Pediatric Primary Care Nurse Practitioner Concentration Requirements

Code	Title	Credit Hours
<b>Concentration Requirements</b>		
NURS 60015	ADVANCED HEALTH ASSESSMENT	3
NURS 60045	PATHOPHYSIOLOGY FOR THE ADVANCED PRACTICE REGISTERED NURSE	3
NURS 60170	PEDIATRIC ASSESSMENT FOR ADVANCED PRACTICE NURSE	3
NURS 60270	PEDIATRIC NURSE PRACTITIONER I	3
NURS 60370	PEDIATRIC NURSE PRACTITIONER II	1
NURS 60372	ADVANCED NURSING CARE OF THE CHRONICALLY ILL CHILD	3
NURS 60441	PHARMACOLOGY FOR ADVANCED PRACTICE NURSING	3
NURS 60470	PEDIATRIC NURSE PRACTITIONER III	2
NURS 61792	PEDIATRIC ASSESSMENT FOR ADVANCED PRACTICE NURSE PRACTICUM	2
NURS 62792	PEDIATRIC NURSE PRACTITIONER I PRACTICUM	2
NURS 63792	PEDIATRIC NURSE PRACTITIONER II PRACTICUM	1
NURS 63992	ADVANCED NURSING CARE OF THE CHRONICALLY ILL CHILD PRACTICUM	2
NURS 64792	PEDIATRIC NURSE PRACTITIONER III PRACTICUM	1
Minimum Total Credit Hours:		29

## Psychiatric Mental Health Nurse Practitioner Concentration Requirements

Code	Title	Credit Hours
<b>Concentration Requirements</b>		
NURS 60012	ADVANCED MENTAL HEALTH ASSESSMENT AND PSYCHOPATHOLOGY	4
NURS 60015	ADVANCED HEALTH ASSESSMENT	3
NURS 60045	PATHOPHYSIOLOGY FOR THE ADVANCED PRACTICE REGISTERED NURSE	3
NURS 60051	NEUROBIOLOGY AND PSYCHOPHARMACOLOGY OF MAJOR PSYCHIATRIC DISORDERS	4
NURS 60151	INDIVIDUAL PSYCHOTHERAPY	3
NURS 60251	FAMILY AND GROUP PSYCHOTHERAPY	3
NURS 60353	INDIVIDUAL, ORGANIZATION AND COMMUNITY CONSULTATION	3
NURS 60441	PHARMACOLOGY FOR ADVANCED PRACTICE NURSING	3
NURS 61592	INDIVIDUAL THERAPY PRACTICUM	2
NURS 62592	MEDICATION MANAGEMENT AND INDIVIDUAL THERAPY PRACTICUM	2
NURS 63592	FAMILY AND GROUP THERAPY	2
NURS 64592	PSYCHIATRIC MENTAL HEALTH PRACTICUM IV: NURSE PRACTITIONER ROLE	2
Minimum Total Credit Hours:		34

## Women's Health Nurse Practitioner Concentration Requirements

Code	Title	Credit Hours
<b>Concentration Requirements</b>		
NURS 60015	ADVANCED HEALTH ASSESSMENT	3
NURS 60045	PATHOPHYSIOLOGY FOR THE ADVANCED PRACTICE REGISTERED NURSE	3
NURS 60140	WOMEN'S HEALTH CARE NURSE PRACTITIONER I	2
NURS 60240	WOMEN'S HEALTH CARE NURSE PRACTITIONER II	2
NURS 60340	WOMEN'S HEALTH CARE NURSE PRACTITIONER III	1
NURS 60440	WOMEN'S HEALTH CARE NURSE PRACTITIONER IV	2
NURS 60441	PHARMACOLOGY FOR ADVANCED PRACTICE NURSING	3
NURS 60506	CLINICAL DIAGNOSTICS FOR ADVANCED PRACTICE NURSES	3
NURS 60540	WOMEN'S HEALTH CARE NURSE PRACTITIONER V	2
NURS 61492	WOMEN'S HEALTH CARE NURSE PRACTITIONER I PRACTICUM	2
NURS 62492	WOMEN'S HEALTH CARE NURSE PRACTITIONER II PRACTICUM	2
NURS 63492	WOMEN'S HEALTH CARE NURSE PRACTITIONER III PRACTICUM	1
NURS 64892	WOMEN'S HEALTH CARE NURSE PRACTITIONER IV PRACTICUM	2

NURS 65892	WOMENS HEALTH CARE NURSE PRACTITIONER V PRACTICUM	2
Minimum Total Credit Hours:		30

## Graduation Requirements

Minimum Major GPA	Minimum Overall GPA
-	3.000

- Minimum 300-675 clinical hours, depending on concentration
- Maximum six years of study. Under selected circumstances and upon the consent of the advisor, petitions for extensions of an additional one year to completion may be submitted to the concentration director.

## Dual Degree with M.B.A. degree in Business Administration

Students have the opportunity to complete a dual degree program with the M.B.A. degree in Business Administration and the M.S.N degree in Nursing. A separate application must be submitted for each program. Students can view admission requirements for each program on their respective catalog page.

The dual degree is for experienced nurses whose career goals include assuming middle or executive management positions in health services agencies or in health-related companies, or who are interested in starting their own businesses. It combines the strengths of advanced nursing preparation with the practical management knowledge needed to develop significant leadership capabilities.

## Dual Degree Requirements

Code	Title	Credit Hours
<b>Major Requirements</b>		
ACCT 63037	FINANCIAL ACCOUNTING FOR DECISION MAKING	2
ACCT 63038	MANAGERIAL ACCOUNTING FOR DECISION MAKING	2
ECON 52086 or ECON 62022	ECONOMICS OF HEALTH CARE MANAGERIAL ECONOMICS	2-3
ECON 62021	GLOBAL CONDITIONS AND MACROECONOMICS POLICY	2
FIN 66050 or NURS 60020	LAW AND ETHICS LEGAL AND REGULATORY MANAGEMENT FOR NURSE ADMINISTRATORS	2
FIN 66060	MANAGERIAL FINANCE	2
MIS 64005	ANALYTICS FOR DECISION MAKING	2
MIS 64041	OPERATIONS, SERVICE AND SUPPLY CHAIN MANAGEMENT	2
MIS 64158 or NURS 60014	LEADERSHIP AND MANAGERIAL ASSESSMENT LEADERSHIP IN NURSING AND HEALTH CARE MANAGEMENT	2
MIS 64185	BUSINESS STRATEGY	3
MIS 64270	ORGANIZATIONAL ANALYSIS AND DESIGN	3
MIS 64271	HUMAN RESOURCE MANAGEMENT	2
MIS 68051	BUSINESS PROFESSIONAL DEVELOPMENT I	1
MKTG 65051	MARKETING MANAGEMENT	2
NURS 60010	ADVANCED NURSING INFORMATICS	3
NURS 60024	HEALTH CARE ORGANIZATION STRUCTURE AND BEHAVIOR	3

NURS 60025	HEALTH POLICY AND ADVANCED NURSING PRACTICE	3
NURS 60101	THEORETICAL BASIS FOR NURSING PRACTICE I	3
NURS 60403	METHODS OF INQUIRY	3
NURS 64002	PROGRAM DEVELOPMENT AND EVALUATION FOR NURSE ADMINISTRATORS	3
NURS 64202	NURSING ADMINISTRATION AND HEALTH SYSTEMS LEADERSHIP I SEMINAR	2
NURS 64292	NURSING ADMINISTRATION AND HEALTH SYSTEMS LEADERSHIP I PRACTICUM	2
NURS 64302	NURSING ADMINISTRATION AND HEALTH SYSTEMS LEADERSHIP II SEMINAR	2
NURS 64392	NURSING ADMINISTRATION AND HEALTH SYSTEMS LEADERSHIP II PRACTICUM	2
Business elective		3
Minimum Total Credit Hours:		58

## Nursing - Ph.D.

### College of Nursing

Henderson Hall  
Kent Campus  
330-672-7930  
nursing@kent.edu  
www.kent.edu/nursing

## Description

The Ph.D. degree in Nursing prepares nurse scientists to develop methods to advance health, health care and the nursing profession. Graduates are expected to lead and promote innovative scholarly endeavors within and across disciplines, and to assume leadership roles in the profession.

### Fully Offered At:

- Kent Campus

## Admission Requirements

- Active, unrestricted Ohio registered nurse license (international students need to show proof of legal ability to practice as a registered nurse in country of origin)
- Bachelor's and master's degrees in nursing, or a Doctor of Nursing Practice degree, from an accredited program<sup>1</sup> for unconditional admission
- Minimum overall 3.000 graduate GPA on a 4.000 point scale for unconditional admission
- Official transcript(s)
- GRE scores (must be less than five years old at the time of application)
- Résumé or curriculum vitae
- Essay (two pages, single-spaced) addressing the following questions:
  - Why do you want to pursue a Ph.D. in nursing?
  - What are your professional goals?
  - How have you been involved in research, publications and professional presentations?
  - How have you been involved in professional organizations?

- What are your research interests?
- Why are you interested in these research areas?
- How could research—and specifically your research—in these areas advance science?
- Sample of written work
- Three letters of reference from health care professionals or academic faculty members who can speak to the applicant's professional and academic abilities (two of the three references from doctoral-prepared individuals are preferred)
- Interview
- English language proficiency - all international students must provide proof of English language proficiency (unless they meet specific exceptions) by earning one of the following:<sup>2</sup>
  - Minimum 560 TOEFL PBT score (paper-based version)
  - Minimum 83 TOEFL IBT score (Internet-based version)
  - Minimum 78 MELAB score
  - Minimum 6.5 IELTS score
  - Minimum 55 PTE score
  - Minimum 110 Duolingo English Test score

For more information about graduate admissions, please visit the Graduate Studies admission website. For more information on international admission, visit the Office of Global Education's admission website.

<sup>1</sup> A bachelor's degree in a closely related health field may be considered if the applicant has a master's degree in nursing or a D.N.P. degree from an accredited program. A master's degree in a closely related field may be considered if the applicant has a bachelor's degree in nursing from an accredited program.

<sup>2</sup> International applicants who do not meet the above test scores may be considered for conditional admission.

## Program Learning Outcomes

Graduates from this program will be able to:

1. Generate new knowledge that contributes to the advancement of health, health care and nursing science.
2. Disseminate advances in scientific knowledge.
3. Use collaborative, interdisciplinary and innovative approaches to knowledge generation.
4. Assume leadership roles in health care and education as researchers, educators and advanced clinicians.
5. Serve as stewards of the body of knowledge for the discipline of nursing.

## Program Requirements

### Major Requirements

Code	Title	Credit Hours
<b>Major Requirements (min B grade in all courses)</b>		
NURS 70710	HISTORY AND PHILOSOPHY OF NURSING SCIENCE	2
NURS 70711	SCIENTIFIC WRITING	2
NURS 70712	RESEARCH DESIGN FUNDAMENTALS	2
NURS 70713	ADVANCED STATISTICS I	2

NURS 70714	LEADERSHIP FOR NURSING SCIENCE	3
NURS 70715	THEORY CONSTRUCTION AND DEVELOPMENT IN NURSING	3
NURS 70740	ADVANCED STATISTICS II	3
NURS 70741	ADVANCED STATISTICS III	3
NURS 70742	ADVANCED QUALITATIVE METHODS FOR HEALTH SCIENCES	4
NURS 70743	ADVANCED QUANTITATIVE METHODS FOR HEALTH SCIENCES	4
NURS 70744	PROPOSAL DEVELOPMENT	3
NURS 70791	VARIABLE CONTENT SEMINAR: EMERGING ISSUES IN NURSING SCIENCE AND RESEARCH	3
NURS 70798	RESEARCH IN NURSING	3
NURS 80199	DISSERTATION I <sup>1</sup>	30
Electives, two courses chosen in consultation with faculty advisor <sup>2</sup>		6
Minimum Total Credit Hours:		73

<sup>1</sup> Each doctoral candidate, upon admission to candidacy, must register for NURS 80199 for a total of 30 credit hours. It is expected that a doctoral candidate will continuously register for Dissertation I, and thereafter NURS 80299, each semester, until all requirements for the degree have been met.

<sup>2</sup> Elective courses support the student's research interest and are selected with the approval of the student's academic advisor. Two 3 credit hour doctoral level elective courses will supplement the student's program of study in a substantive area of research or specific method of research, including advanced statistical approaches, or assist the student with career goals following graduation.

## Candidacy Examination

At the conclusion of coursework, students sit for the candidacy examination. The examination provides the basis for evaluation of the student's readiness for completing the dissertation. Students must successfully pass candidacy and a proposal defense before beginning dissertation work.

## Graduation Requirements

- Minimum B grade in all courses.<sup>1</sup>
- Passage of the candidacy examination
- Submission and successful defense of a dissertation

<sup>1</sup> If a course must be repeated, the student cannot take other courses that require that course as a prerequisite until the course is successfully retaken. If the student retakes the course and does not earn a minimum B grade, the student may be dismissed from the Ph.D. degree.

## Roadmap

This roadmap is a recommended semester-by-semester plan of study for this major. However, courses designated as critical (!) must be completed in the semester listed to ensure a timely graduation.

Semester One		Credits
NURS 70710	HISTORY AND PHILOSOPHY OF NURSING SCIENCE	2
NURS 70711	SCIENTIFIC WRITING	2
NURS 70712	RESEARCH DESIGN FUNDAMENTALS	2

NURS 70713	ADVANCED STATISTICS I	2
Credit Hours		8

### Semester Two

NURS 70715	THEORY CONSTRUCTION AND DEVELOPMENT IN NURSING	3
NURS 70740	ADVANCED STATISTICS II	3
NURS 70742	ADVANCED QUALITATIVE METHODS FOR HEALTH SCIENCES	4
Credit Hours		10

### First Summer Term

NURS 70714	LEADERSHIP FOR NURSING SCIENCE	3
Elective		3
Credit Hours		6

### Semester Three

NURS 70741	ADVANCED STATISTICS III	3
NURS 70743	ADVANCED QUANTITATIVE METHODS FOR HEALTH SCIENCES	4
NURS 70798	RESEARCH IN NURSING	3
Credit Hours		10

### Semester Four

NURS 70791	VARIABLE CONTENT SEMINAR: EMERGING ISSUES IN NURSING SCIENCE AND RESEARCH	3
NURS 70744	PROPOSAL DEVELOPMENT	3
Elective		3
Credit Hours		9

### Second Summer Term

Candidacy Examination		
Credit Hours		0

### Semester Five

NURS 80199	DISSERTATION I	15
NURS 80199	DISSERTATION I	15
Credit Hours		30
Minimum Total Credit Hours:		73

# Nursing Administration and Health Systems Leadership - Graduate Certificate

## College of Nursing

Henderson Hall  
Kent Campus  
330-672-7930  
nursing@kent.edu  
www.kent.edu/nursing

## Description

The Nursing Administration and Health Systems Leadership graduate certificate provides nurses who already have a graduate nursing degree the additional specialized knowledge for the nursing administration and health systems leadership.

## Fully Offered At:

- Online



## Admission Requirements

- Master's degree in nursing or a doctorate in nursing practice from an accredited nursing program
- Minimum 3.000 graduate GPA on a 4.000 scale
- Official transcript(s)
- Active, unrestricted registered nurse license in the state in which practicum hours will be completed
- Résumé or vita
- Goal statement (no more than 250 words) describing reasons for seeking the certificate in the identified specialty and professional goals
- Transcript(s) of all previous graduate coursework
- Syllabi of all courses to be considered for transfer in the gap analysis
- Three letters of reference from health care professionals or faculty members
- English language proficiency - all international students must provide proof of English language proficiency (unless they meet specific exceptions) by earning one of the following:
  - Minimum 560 TOEFL PBT score (paper-based version)
  - Minimum 83 TOEFL IBT score (Internet-based version)
  - Minimum 78 MELAB score
  - Minimum 6.5 IELTS score
  - Minimum 55 PTE score

For more information about graduate admissions, please visit the [Graduate Studies admission website](#). For more information on international admission, visit the [Office of Global Education's admission website](#).

## Program Requirements

### CERTIFICATE REQUIREMENTS

Code	Title	Credit Hours
<b>Certificate Requirements</b>		
NURS 60014	LEADERSHIP IN NURSING AND HEALTH CARE MANAGEMENT	3
NURS 60020	LEGAL AND REGULATORY MANAGEMENT FOR NURSE ADMINISTRATORS	3
NURS 60024	HEALTH CARE ORGANIZATION STRUCTURE AND BEHAVIOR	3
NURS 60315	BUDGETARY AND FISCAL MANAGEMENT FOR NURSES	3
NURS 64002	PROGRAM DEVELOPMENT AND EVALUATION FOR NURSE ADMINISTRATORS	3
NURS 64202	NURSING ADMINISTRATION AND HEALTH SYSTEMS LEADERSHIP I SEMINAR	2
NURS 64292	NURSING ADMINISTRATION AND HEALTH SYSTEMS LEADERSHIP I PRACTICUM	2
NURS 64302	NURSING ADMINISTRATION AND HEALTH SYSTEMS LEADERSHIP II SEMINAR	2
NURS 64392	NURSING ADMINISTRATION AND HEALTH SYSTEMS LEADERSHIP II PRACTICUM	2
Minimum Total Credit Hours:		23

### GRADUATION REQUIREMENTS

Minimum Certificate GPA	Minimum Overall GPA
3.000	

## Nursing for Registered Nurses - B.S.N.

**College of Nursing**  
Henderson Hall  
Kent Campus  
330-672-7930  
nursing@kent.edu  
www.kent.edu/nursing

### Description

The Bachelor of Science in Nursing degree in Nursing for Registered Nurses is for registered nurses (RN) with a diploma or associate degree who are seeking an accredited bachelor's degree in nursing. The completer program is offered fully online for part- and full-time students. Expert faculty and administrators work closely with students to equip them to meet the future challenges of professional nursing and influence the future of health care.

### Fully Offered At:

- Online

### Accreditation

The B.S.N. degree Nursing for Registered Nurses at Kent State University is accredited by the Commission on Collegiate Nursing Education, 655 K Street, NW, Suite 750, Washington, DC 20001, 202-887-6791.

## Admission Requirements

The university affirmatively strives to provide educational opportunities and access to students with varied backgrounds, those with special talents and adult students who graduated from high school three or more years ago.

Admission to the Nursing for Registered Nurses major is selective. Criteria for admission includes the following:

- Evidence of admission in good standing from a state-approved associate degree or diploma nursing program with a minimum 2.000 (on a 4.0 scale) overall GPA.

**English Language Proficiency Requirements for International Students:** All international students must provide proof of English language proficiency (unless they meet specific exceptions) by earning a minimum 525 TOEFL score (71 on the Internet-based version), minimum 75 MELAB score, minimum 6.0 IELTS score or minimum 48 PTE Academic score, or by completing the ELS level 112 Intensive Program. For more information on international admission, visit the [Office of Global Education's admission website](#).

## Program Learning Outcomes

Graduates of this program will be able to:

1. Acquire competencies based on professional standards to assume the role of the professional nurse and for career advancement, including graduate studies.
2. Apply the nursing process in providing evidence-based, culturally sensitive care to promote health and adaptation of individuals, families, groups and communities

## University Requirements

All students in a bachelor's degree program at Kent State University must complete the following university requirements for graduation.

**NOTE:** University requirements may be fulfilled in this program by specific course requirements. Please see Program Requirements for details.

Destination Kent State: First Year Experience	1
Course is not required for students with 25 transfer credits, excluding College Credit Plus, or age 21+ at time of admission.	
Diversity Domestic/Global (DIVD/DIVG)	2 courses
Students must successfully complete one domestic and one global course, of which one must be from the Kent Core.	
Experiential Learning Requirement (ELR)	varies
Students must successfully complete one course or approved experience.	
Kent Core (see table below)	36-37
Writing-Intensive Course (WIC)	1 course
Students must earn a minimum C grade in the course.	
Upper-Division Requirement	39 (or 42)
Students must successfully complete 39 upper-division (numbered 30000 to 49999) credit hours to graduate. Students in a B.A. and/or B.S. degree in the College of Arts and Sciences must complete 42 upper-division credit hours.	
Total Credit Hour Requirement	120
Some bachelor's degrees require students to complete more than 120 credit hours.	

## Kent Core Requirements

Kent Core Composition (KCOMP)	6
Kent Core Mathematics and Critical Reasoning (KMCR)	3
Kent Core Humanities and Fine Arts (KHUM/KFA) (min one course each)	9
Kent Core Social Sciences (KSS) (must be from two disciplines)	6
Kent Core Basic Sciences (KBS/KLAB) (must include one laboratory)	6-7
Kent Core Additional (KADL)	6
<b>Total Credit Hours:</b>	<b>36-37</b>

## Program Requirements

### Major Requirements

Code	Title	Credit Hours
<b>Prerequisite Requirements (min C graded required in all courses)</b>		
BSCI 20021 or BSCI 30171	BASIC MICROBIOLOGY GENERAL MICROBIOLOGY	3
BSCI 21010	ANATOMY AND PHYSIOLOGY I (KBS) (KLAB) <sup>1</sup>	4
BSCI 21020	ANATOMY AND PHYSIOLOGY II <sup>1</sup>	4
CHEM 10050 or CHEM 10055 or CHEM 10060	FUNDAMENTALS OF CHEMISTRY (KBS) MOLECULES OF LIFE (KBS) GENERAL CHEMISTRY I (KBS)	3
<b>Major Requirements (courses count in major GPA; minimum C grade required in all courses)</b>		
BSCI 30050 or BSCI 30156	HUMAN GENETICS ELEMENTS OF GENETICS	3
NURS 35040	COMPLEMENTARY AND INTEGRATIVE HEALTH <sup>2</sup>	3

or NURS 45030	PROFESSIONAL LITERACY: SKILLS TO CAREER ADVANCEMENT	
NURS 40075	INFORMATION AND PATIENT CARE TECHNOLOGY FOR HEALTHCARE PROFESSIONALS	3
NURS 40873	INTRODUCTION TO EVIDENCE BASED PRACTICE FOR REGISTERED NURSES	3
NURS 41000	CONCEPTS AND ISSUES FOR PROFESSIONAL NURSING PRACTICE	3
NURS 42000	LEADERSHIP AND MANAGEMENT FOR PROFESSIONAL NURSING PRACTICE	3
NURS 43001	HEALTH PROMOTION IN PROFESSIONAL NURSING PRACTICE (ELR) <sup>3</sup>	3
NURS 45000	HEALTH MAINTENANCE AND RESTORATION FOR PROFESSIONAL NURSING PRACTICE	3
NURS 46000	HEALTH CARE POLICY	3
NURS 47001	CAPSTONE FOR PROFESSIONAL NURSING PRACTICE (WIC)	3
NUTR 23511	SCIENCE OF HUMAN NUTRITION (KBS)	3
Statistics Elective, choose from the following:		3-4
MATH 10041	INTRODUCTORY STATISTICS (KMCR)	
NURS 31010	APPLICATIONS FOR STATISTICAL FINDINGS FOR EVIDENCE BASED PRACTICE	
PH 30002	INTRODUCTORY BIostatISTICS	
PSYC 21621	QUANTITATIVE METHODS IN PSYCHOLOGY I	
<b>Additional Requirements (courses do not count in major GPA)</b>		
PSYC 11762	GENERAL PSYCHOLOGY (DIVD) (KSS)	3
SOC 12050	INTRODUCTION TO SOCIOLOGY (DIVD) (KSS)	3
UC 10097	DESTINATION KENT STATE: FIRST YEAR EXPERIENCE	1
Kent Core Composition		6
Kent Core Mathematics and Critical Reasoning (min C grade)		3
Kent Core Humanities and Fine Arts (minimum one course from each)		9
Kent Core Additional		3
Associate Degree Courses and General Electives (total credit hours depends on earning 120 credit hours, including 39 upper-division credit hours)		42
Minimum Total Credit Hours:		120

<sup>1</sup> Students who have successfully completed ATTR 25057 (or EXSC 25057) and ATTR 25058 (or EXSC 25058) with a minimum C grade may use those courses in place of BSCI 21010 and BSCI 21020.

<sup>2</sup> With permission of the undergraduate program director, another upper-division nursing or health care course may be substituted for NURS 35040 or NURS 45030.

### Progression Requirements

To be eligible to register for nursing (NURS) courses, students must have successfully completed:

- Active, unrestricted registered nurse (RN) license in the state in which practica will be completed
- Completion of required science courses or their direct equivalents with a cumulative 2.0 GPA
  - Anatomy and Physiology: BSCI 21010 and BSCI 21020
  - Chemistry: CHEM 10050 or CHEM 10055
  - Microbiology: BSCI 20021
- All Kent Core requirements

- Kent Core Mathematics and Critical Reasoning course with minimum C grade
- BSCI 30050 or BSCI 30156 (or equivalent) with minimum C grade
- The following courses (or their equivalents): NUTR 23511; PSYC 11762; SOC 12050; and MATH 10041 (or NURS 31010 or PH 30002 or PSYC 21621)

## Graduation Requirements

Minimum Major GPA	Minimum Overall GPA
2.000	2.000

## Roadmap

Semester Prerequisite		Credits
BSCI 21010	ANATOMY AND PHYSIOLOGY I (KBS) (KLAB)	4
BSCI 21020	ANATOMY AND PHYSIOLOGY II	4
BSCI 20021	BASIC MICROBIOLOGY	3
or	or GENERAL MICROBIOLOGY	
BSCI 30171		
CHEM 10050	FUNDAMENTALS OF CHEMISTRY (KBS)	3
or	or MOLECULES OF LIFE (KBS)	
CHEM 10055	or GENERAL CHEMISTRY I (KBS)	
or		
CHEM 10060		
Associate Degree Courses		33
Credit Hours		47
Semester One		
PSYC 11762	GENERAL PSYCHOLOGY (DIVD) (KSS)	3
SOC 12050	INTRODUCTION TO SOCIOLOGY (DIVD) (KSS)	3
UC 10097	DESTINATION KENT STATE: FIRST YEAR EXPERIENCE	1
Kent Core Requirement		3
Kent Core Requirement		3
Credit Hours		13
Semester Two		
Kent Core Requirement		3
Kent Core Requirement		3
Kent Core Requirement		3
Kent Core Requirement		3
General Elective		3
Credit Hours		15
Semester Three		
BSCI 30050	HUMAN GENETICS	3
or	or ELEMENTS OF GENETICS	
BSCI 30156		
NUTR 23511	SCIENCE OF HUMAN NUTRITION (KBS)	3
Statistics Elective		3-4
Kent Core Requirement		3
Credit Hours		12
Semester Four		
NURS 40075	INFORMATION AND PATIENT CARE TECHNOLOGY FOR HEALTHCARE PROFESSIONALS	3
NURS 41000	CONCEPTS AND ISSUES FOR PROFESSIONAL NURSING PRACTICE	3
NURS 42000	LEADERSHIP AND MANAGEMENT FOR PROFESSIONAL NURSING PRACTICE	3
NURS 43001	HEALTH PROMOTION IN PROFESSIONAL NURSING PRACTICE (ELR)	3
Credit Hours		12
Semester Five		
NURS 35040	COMPLEMENTARY AND INTEGRATIVE HEALTH	3
or	or PROFESSIONAL LITERACY: SKILLS TO	
NURS 45030	CAREER ADVANCEMENT	
NURS 45000	HEALTH MAINTENANCE AND RESTORATION FOR PROFESSIONAL NURSING PRACTICE	3
NURS 46000	HEALTH CARE POLICY	3
General Elective		6
Credit Hours		15

### Semester Six

NURS 40873	INTRODUCTION TO EVIDENCE BASED PRACTICE FOR REGISTERED NURSES	3
NURS 47001	CAPSTONE FOR PROFESSIONAL NURSING PRACTICE (WIC)	3
Credit Hours		6
Minimum Total Credit Hours:		120

## Pediatric Primary Care Nurse Practitioner - Graduate Certificate

### College of Nursing

Henderson Hall  
Kent Campus  
330-672-7930  
nursing@kent.edu  
www.kent.edu/nursing

## Description

The Pediatric Primary Care Nurse Practitioner graduate certificate provides nurses who already have a graduate nursing degree the additional specialized knowledge for the pediatric primary care nurse practitioner role. The certificate meets the educational requirements for application to the national certification examination.

### Fully Offered At:

- Kent Campus

## Admission Requirements

- Master's degree in nursing or a doctorate in nursing practice from an accredited nursing program
- Minimum 3.000 graduate GPA on a 4.000 scale
- Official transcript(s)
- Active, unrestricted registered nurse license in the state in which practicum hours will be completed
- Résumé or vita
- Goal statement (no more than 250 words) describing reasons for seeking the certificate in the identified specialty and professional goals
- Transcript(s) of all previous graduate coursework<sup>1</sup>
- Syllabi of all courses to be considered for transfer in the gap analysis
- Three letters of reference from health care professionals or faculty members
- English language proficiency - all international students must provide proof of English language proficiency (unless they meet specific exceptions) by earning one of the following:
  - Minimum 560 TOEFL PBT score (paper-based version)
  - Minimum 83 TOEFL IBT score (Internet-based version)
  - Minimum 78 MELAB score
  - Minimum 6.5 IELTS score
  - Minimum 55 PTE score

For more information about graduate admissions, please visit the Graduate Studies admission website. For more information on international admission, visit the Office of Global Education's admission website.

<sup>1</sup> Transcript(s) must indicate completion of graduate-level courses in advanced pathophysiology, advanced pharmacology and advanced health assessment, with a minimum B grade earned in each course. Applicants who do not meet the grade requirement for advanced pathophysiology, advanced pharmacology and advanced health assessment may be considered for a conditional admission. For applicants who have not practiced as an advanced practice registered nurse within the two-year period preceding application to the certificate, completion of graduate-level courses in advanced pathophysiology, advanced pharmacology and advanced health assessment must not be greater than five years old at the time of the student's first semester of course registration in the certificate.

## Program Requirements

### Certificate Requirements

Code	Title	Credit Hours
<b>Certificate Requirements</b>		
NURS 60170	PEDIATRIC ASSESSMENT FOR ADVANCED PRACTICE NURSE	3
NURS 60270	PEDIATRIC NURSE PRACTITIONER I	3
NURS 60370	PEDIATRIC NURSE PRACTITIONER II	1
NURS 60372	ADVANCED NURSING CARE OF THE CHRONICALLY ILL CHILD	3
NURS 60470	PEDIATRIC NURSE PRACTITIONER III	2
NURS 61792	PEDIATRIC ASSESSMENT FOR ADVANCED PRACTICE NURSE PRACTICUM	2
NURS 62792	PEDIATRIC NURSE PRACTITIONER I PRACTICUM	2
NURS 63792	PEDIATRIC NURSE PRACTITIONER II PRACTICUM	1
NURS 63992	ADVANCED NURSING CARE OF THE CHRONICALLY ILL CHILD PRACTICUM	2
NURS 64792	PEDIATRIC NURSE PRACTITIONER III PRACTICUM	1
Minimum Total Credit Hours:		20

### Graduation Requirements

Minimum Certificate GPA	Minimum Overall GPA
3.000	

## Psychiatric Mental Health Nurse Practitioner - Graduate Certificate

**College of Nursing**  
Henderson Hall  
Kent Campus  
330-672-7930  
nursing@kent.edu  
www.kent.edu/nursing

### Description

The Psychiatric Mental Health Nurse Practitioner graduate certificate prepares nurses who have a graduate nursing degree the additional specialized knowledge for the psychiatric mental health nurse

practitioner role. The certificate meets the educational requirements for the national certification examination.

### Fully Offered At:

- Kent Campus

## Admission Requirements

- Master's degree in nursing or a doctorate in nursing practice from an accredited nursing program
- Minimum 3.000 graduate GPA on a 4.000 scale
- Official transcript(s)
- Active, unrestricted registered nurse license in the state in which practicum hours will be completed
- Résumé or vita
- Goal statement (no more than 250 words) describing reasons for seeking the certificate in the identified specialty and professional goals
- Transcript(s) of all previous graduate coursework<sup>1</sup>
- Syllabi of all courses to be considered for transfer in the gap analysis
- Three letters of reference from health care professionals or faculty members
- English language proficiency - all international students must provide proof of English language proficiency (unless they meet specific exceptions) by earning one of the following:
  - Minimum 560 TOEFL PBT score (paper-based version)
  - Minimum 83 TOEFL IBT score (Internet-based version)
  - Minimum 78 MELAB score
  - Minimum 6.5 IELTS score
  - Minimum 55 PTE score

For more information about graduate admission, please visit the [Graduate Studies website](#). For more information on international admission, visit the [Office of Global Education's admission website](#).

<sup>1</sup> Transcript(s) must indicate completion of graduate-level courses in advanced pathophysiology, advanced pharmacology and advanced health assessment, with a minimum B grade earned in each course. Applicants who do not meet the grade requirement for advanced pathophysiology, advanced pharmacology and advanced health assessment may be considered for a conditional admission. For applicants who have not practiced as an advanced practice registered nurse within the two-year period preceding application to the certificate, completion of graduate-level courses in advanced pathophysiology, advanced pharmacology and advanced health assessment must not be greater than five years old at the time of the student's first semester of course registration in the certificate.

## Program Requirements

### Certificate Requirements

Code	Title	Credit Hours
<b>Certificate Requirements</b>		
NURS 60012	ADVANCED MENTAL HEALTH ASSESSMENT AND PSYCHOPATHOLOGY	4



NURS 60051	NEUROBIOLOGY AND PSYCHOPHARMACOLOGY OF MAJOR PSYCHIATRIC DISORDERS	4
NURS 60151	INDIVIDUAL PSYCHOTHERAPY	3
NURS 60251	FAMILY AND GROUP PSYCHOTHERAPY	3
NURS 60353	INDIVIDUAL, ORGANIZATION AND COMMUNITY CONSULTATION	3
NURS 61592	INDIVIDUAL THERAPY PRACTICUM	2
NURS 62592	MEDICATION MANAGEMENT AND INDIVIDUAL THERAPY PRACTICUM	2
NURS 63592	FAMILY AND GROUP THERAPY	2
NURS 64592	PSYCHIATRIC MENTAL HEALTH PRACTICUM IV: NURSE PRACTITIONER ROLE	2
Minimum Total Credit Hours:		25

- English language proficiency - all international students must provide proof of English language proficiency (unless they meet specific exceptions) by earning one of the following:
  - Minimum 560 TOEFL PBT score (paper-based version)
  - Minimum 83 TOEFL IBT score (Internet-based version)
  - Minimum 78 MELAB score
  - Minimum 6.5 IELTS score
  - Minimum 55 PTE score

For more information about graduate admissions, please visit the [Graduate Studies admission website](#). For more information on international admission, visit the [Office of Global Education's admission website](#).

- <sup>1</sup> Transcript(s) must indicate completion of graduate-level courses in advanced pathophysiology, advanced pharmacology and advanced health assessment, with a minimum B grade earned in each course. Applicants who do not meet the grade requirement for advanced pathophysiology, advanced pharmacology and advanced health assessment may be considered for a conditional admission. For applicants who have not practiced as an advanced practice registered nurse within the two-year period preceding application to the certificate, completion of graduate-level courses in advanced pathophysiology, advanced pharmacology and advanced health assessment must not be greater than five years old at the time of the student's first semester of course registration in the certificate.

## Graduation Requirements

Minimum Certificate GPA	Minimum Overall GPA
3.000	

# Women's Health Nurse Practitioner - Graduate Certificate

**College of Nursing**  
Henderson Hall  
Kent Campus  
330-672-7930  
nursing@kent.edu  
www.kent.edu/nursing

## Description

The Women's Health Nurse Practitioner graduate certificate provides nurses who already have a graduate nursing degree the additional specialized knowledge and clinical experience for the women's health nurse practitioner role. The certificate meets the educational requirements for national certification examination.

### Fully Offered At:

- Online

## Admission Requirements

- Master's degree in nursing or a doctorate in nursing practice from an accredited nursing program
- Minimum 3.000 graduate GPA on a 4.000 scale
- Official transcript(s)
- Active, unrestricted registered nurse license in the state in which practicum hours will be completed
- Résumé or vita
- Goal statement (no more than 250 words) describing reasons for seeking the certificate in the identified specialty and professional goals
- Transcript(s) of all previous graduate coursework<sup>1</sup>
- Syllabi of all courses to be considered for transfer in the gap analysis
- Three letters of reference from health care professionals or faculty members

## Program Requirements

### Certificate Requirements

Code	Title	Credit Hours
<b>Certificate Requirements</b>		
NURS 60140	WOMEN'S HEALTH CARE NURSE PRACTITIONER I	2
NURS 60240	WOMEN'S HEALTH CARE NURSE PRACTITIONER II	2
NURS 60340	WOMEN'S HEALTH CARE NURSE PRACTITIONER III	1
NURS 60440	WOMEN'S HEALTH CARE NURSE PRACTITIONER IV	2
NURS 60506	CLINICAL DIAGNOSTICS FOR ADVANCED PRACTICE NURSES	3
NURS 60540	WOMEN'S HEALTH CARE NURSE PRACTITIONER V	2
NURS 61492	WOMEN'S HEALTH CARE NURSE PRACTITIONER I PRACTICUM	2
NURS 62492	WOMEN'S HEALTH CARE NURSE PRACTITIONER II PRACTICUM	2
NURS 63492	WOMEN'S HEALTH CARE NURSE PRACTITIONER III PRACTICUM	1
NURS 64892	WOMEN'S HEALTH CARE NURSE PRACTITIONER IV PRACTICUM	2
NURS 65892	WOMEN'S HEALTH CARE NURSE PRACTITIONER V PRACTICUM	2
Minimum Total Credit Hours:		21

## Graduation Requirements

Minimum Certificate GPA	Minimum Overall GPA
3.000	

## College of Podiatric Medicine

### College of Podiatric Medicine

6000 Rockside Woods Blvd.

Independence

216-231-3300 or 800-238-7903

podiatry@kent.edu

www.kent.edu/cpm

## Description

The mission of the College of Podiatric Medicine is to educate students to be highly competent doctors of podiatric medicine who will excel in residency training.

Formerly the Ohio College of Podiatric Medicine, Kent State's College of Podiatric Medicine is one of nine accredited podiatry colleges in the United States and is a four-year, graduate-level medical college, granting the Doctor of Podiatric Medicine degree. Founded in 1916 as the Ohio College of Podiatric Medicine, the college has graduated more than 6,000 podiatrists who have made outstanding contributions to the field and study of podiatric medicine. The college has regional and national affiliations with more than 50 hospitals and more than 300 private practitioners nationwide that provide externship training to podiatry students. Currently, the college maintains an average four-year school enrollment of 425 students and typically graduates 85-100 podiatrists a year.

The College of Podiatric Medicine is accredited by the Council on Podiatric Medical Education. Accreditation.

## Graduate Programs

- Podiatric Medicine - D.P. M.

## Policies

- Academic and Summary Dismissals
- Academic Appeals Committee
- Academic Performance and Student Organizations
- American Podiatric Medical Licensing Examination (APMLE)
- Attendance
- Background Checks and Drug Testing
- Board Prep Exam
- BoxCast
- Cheating and Academic Dishonesty
- Clerkship and Senior Medicine Rotations
- Clinical Affiliation Agreements
- Clinical Rotations
- Course Exemptions
- Eligibility for Doctor of Podiatric Medicine Degree
- Essential Requirements for Student Education
- Examination Policy
- Immunizations
- Incomplete Grades

- Leave of Absence Procedure
- Professional Behavior
- Professionalism Deficiency Evaluation
- Promotion
- Readmission
- Registration for the College Podiatric Medicine
- Remediation and Mandatory Academic Counseling
- Senior Experience
- Student Conduct
- Student Malpractice Insurance Coverage
- Test Review Procedure
- Transfer and Advanced Standing Admissions
- Withdrawal from the College of Podiatric Medicine

## College of Podiatric Medicine Faculty

- Belovich, Stephanie J. (2012), Associate Professor, Ph.D., Kent State University, 1999
- Blazer, Marie M. (2012), Associate Professor, D.P.M., Ohio College of Podiatric Medicine, 2004
- Connors, James C. (2016), Assistant Professor, D.P.M., Ohio College of Podiatric Medicine, 1999
- Dalman, Mark R. (2016), Assistant Professor, Ph.D., University of Akron, 2014
- Eble, Joann P. (2012), Assistant Professor & Assistant Dean, M.S., Cleveland State University, 1986
- Ehredt, Duane J. (2015), Associate Professor, D.P.M., Ohio College of Podiatric Medicine, 2011
- Hardy, Mark A. (2016), Associate Professor & Division Head, D.P.M., Kent State University, 1998
- Hetherington, Vincent J. (2012), Professor & Senior Associate Dean, D.P.M., Pennsylvania College of Podiatric Medicine, 1977
- Johnson, Rachel E. (2012), Assistant Professor, D.P.M., Ohio College of Podiatric Medicine, 2008
- Kawalec, Jill S. (2012), Professor & Director, Ph.D., Case Western Reserve University, 1997
- Mooney, Mary A. (2012), Assistant Professor, M.D., The Ohio State University, 1979
- Osbourne, Abe G. (2012), Associate Professor, D.P.M., Ohio College of Podiatric Medicine, 1990
- Osher, Lawrence S. (2012), Professor, D.P.M., Ohio College of Podiatric Medicine, 1982
- Petrozzi, Rocco A. (2012), Associate Professor & Division Head, D.P.M., Ohio College of Podiatric Medicine, 2003

- Pratt, Christina M. (2017), Assistant Professor, D.P.M., California School of Podiatric Medicine, Samuel Merritt University, 2013
- Razzante, Mark C. (2018), Assistant Professor
- Siesel, Kathy J. (2012), Associate Professor, D.P.M., Ohio College of Podiatric Medicine, 1989
- Spencer, Scott A. (2012), Associate Professor, D.P.M., Ohio College of Podiatric Medicine, 1987

## Clinical Education (CLI)

### CLI 80200 STANDARDIZED PATIENTS ROTATION 1 Credit Hour

Offers second year students the opportunity to interview standardized patients and receive feedback on their patient interviewing and history recording skills which prepares them to function competently in a doctor/patient encounter. Some students find that interviewing patients comes naturally, while for others it is more a learned skill. The standardized patients are actors who have been coached to simulate actual patients so accurately that the simulation could possibly fool even a skilled clinician.

**Prerequisite:** Student must be enrolled in the Podiatric Medicine program.

**Schedule Type:** Clinical Laboratory

**Contact Hours:** 4 other

**Grade Mode:** Satisfactory/Unsatisfactory

### CLI 80310 PODIATRIC SURGERY ROTATION 4 Credit Hours

Stresses complete pre-operative and post-operative management of the surgical patient. Many foot deformities can be corrected with surgery. Work up for the purposes of establishing proper diagnosis, selection of appropriate surgical procedure and designing a proper follow-up plan are necessary components of successful surgical outcome. Proper post-operative patient care as well as early recognition of potential surgical complications are stressed. These are essential to a successful surgical practice. While the scope of surgery varies greatly with differences in postgraduate training, there exists a basic core of knowledge and various techniques that are consistent with successful surgical outcome. In order to be a successful surgeon, it is imperative that the student master those basic skills that will be utilized through his or her career. This rotation is the foundation upon which surgical careers are built.

**Prerequisite:** Student must be enrolled in the Podiatric Medicine program.

**Schedule Type:** Clinical Laboratory

**Contact Hours:** 16 other

**Grade Mode:** Satisfactory/Unsatisfactory

### CLI 80315 SURGICAL SKILLS WORKSHOP 4 Credit Hours

Provides students with the knowledge and hands-on training pertaining to the physical skills that are necessary to perform surgery of the foot and ankle. An effort is made to correlate didactic information learned in the classroom with the rationale behind why many surgical procedures are performed. Adequate demonstration of surgical skills are provided along with practice time and constructive performance feedback.

**Prerequisite:** Student must be enrolled in the Podiatric Medicine program.

**Schedule Type:** Clinical Laboratory

**Contact Hours:** 16 other

**Grade Mode:** Satisfactory/Unsatisfactory

### CLI 80320 RADIOLOGY ROTATION 4 Credit Hours

Clinical rotations function by adapting and applying classroom information to real life, "hands-on" situations. A majority of foot complaints necessitate the taking and the reading of radiographs. As specialists of the foot and ankle, podiatrists are in a unique situation in being able to take and interpret radiographs in their own offices. Radiographic analysis is therefore an integral component of podiatric medical education. The Radiology/Medical Imaging rotation focuses on those skills commonly performed by the podiatrist. This includes positioning and developing radiographs along with recognizing the most common pedal pathologies.

**Prerequisite:** Student must be enrolled in the Podiatric Medicine program.

**Schedule Type:** Clinical Laboratory

**Contact Hours:** 16 other

**Grade Mode:** Satisfactory/Unsatisfactory

### CLI 80351 PODIATRIC MEDICINE/BIOMECHANICS (EUCLID) 4 Credit Hours

Gives students the opportunity to perform primary foot and ankle care under the supervision of the clinical faculty. Students learn basic podiatric palliative care techniques on patients, as well as how to record the findings in the medical record. Students are evaluated on their ability to present the case history, treat the patient and properly record their findings. Students receive clinical conferences on a variety of podiatric medical topics with practical exams in many areas. Two months are spent at the Cleveland Foot and Ankle Institute. One month is spent at the Cleveland VA Hospital. This rotation also provides the student with the opportunity for observation and practice of examination skills required in performing a musculoskeletal and biomechanical evaluation. This involves the development of skill in obtaining a biomechanical/musculoskeletal history, arthrometric evaluation, visual gait analysis and musculoskeletal examination to include muscle strength testing, flexibility and range of motion. The student is also taught, and provided opportunities for practice, various methods of obtaining and evaluating proper biomechanical cast impressions of the feet for the purpose of fabricating orthotic devices, Emphasis in this rotation is on the practice and refinement of clinical evaluation and manual skills.

**Prerequisite:** Student must be enrolled in the Podiatric Medicine program.

**Schedule Type:** Clinical Laboratory

**Contact Hours:** 16 other

**Grade Mode:** Satisfactory/Unsatisfactory

**CLI 80352 PODIATRIC MEDICINE/BIOMECHANICS (INDEPENDENCE) 4 Credit Hours**

Gives students the opportunity to perform primary foot and ankle care under the supervision of the clinical faculty. Students learn basic podiatric palliative care techniques on patients, as well as how to record their findings in the medical record. Students are evaluated on their ability to present the case history, treat the patient and properly record their findings. Students receive clinical conferences on a variety of podiatric medical topics, with practical exams in many areas. Two months are spent at the Cleveland Foot and Ankle Institute. One month is spent at the Cleveland VA Hospital. Also provides the student with the opportunity for observation and practice of examination skills required in performing a musculoskeletal and biomechanical evaluation. This involves the development of skill in obtaining a biomechanical/musculoskeletal history, arthrometric evaluation, visual gait analysis and musculoskeletal examination to include muscle strength testing, flexibility and range of motion. The student is also taught, and provided opportunities for practice, various methods of obtaining and evaluating proper biomechanical cast impressions of the feet for the purpose of fabricating orthotic devices. Emphasis is on the practice and refinement of clinical evaluation and manual skills.

**Prerequisite:** Student must be enrolled in the Podiatric Medicine program.

**Schedule Type:** Clinical Laboratory

**Contact Hours:** 16 other

**Grade Mode:** Satisfactory/Unsatisfactory

**CLI 80365 PRIMARY CARE/VETERANS ADMINISTRATION 4 Credit Hours**

This is a one-month rotation at a veteran's health care facility, which emphasizes the skills necessary to function effectively in government health care facilities.

**Prerequisite:** Student must be enrolled in the Podiatric Medicine program.

**Schedule Type:** Clinical Laboratory

**Contact Hours:** 16 other

**Grade Mode:** Satisfactory/Unsatisfactory

**CLI 80370 HISTORY AND PHYSICAL ROTATION 4 Credit Hours**

The history and physical rotation is a one month experience in one of the several area hospitals, which is designed to provide experience in history and physical examinations. Each rotation site will provide the same core experiences, (based on the goals and objectives), in patient assessment techniques (i.e., history and physical examination), the understanding of disease processes and management strategies. In addition to the core experiences, each rotation site may add additional exposures and training.

**Prerequisite:** Student must be enrolled in the Podiatric Medicine program.

**Schedule Type:** Clinical Laboratory

**Contact Hours:** 16 other

**Grade Mode:** Satisfactory/Unsatisfactory

**CLI 80380 SIMULATED PATIENTS I 4 Credit Hours**

Clinical course offered as part of the core clinical rotations in the third year. Covers general medicine rotation, simulated patients interactions and clinical skills exam exposure.

**Prerequisite:** Student must be enrolled in the Podiatric Medicine program.

**Schedule Type:** Clinical Laboratory

**Contact Hours:** 4 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**CLI 80381 SIMULATED PATIENTS II 4 Credit Hours**

Clinical course offered as part of the core clinical rotations in the third year. Covers general medicine rotation, simulated patients interactions and clinical skills exam exposure.

**Prerequisite:** Student must be enrolled in the Podiatric Medicine program.

**Schedule Type:** Clinical Laboratory

**Contact Hours:** 4 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**CLI 80441 SENIOR CLINICAL ROTATION I 4 Credit Hours**

The senior podiatric rotation is a one-month rotation at the Cleveland Foot and Ankle Institute, which emphasizes competencies needed to enter hospital residency training. Experiences are gained in primary clinical sites and external sites affiliated with the college.

**Prerequisite:** Students must be enrolled in the Podiatric Medicine program in order to register for this course.

**Schedule Type:** Clinical Laboratory

**Contact Hours:** 48 other

**Grade Mode:** Standard Letter-S/U-IP

**CLI 80442 SENIOR CLINICAL ROTATION II 4 Credit Hours**

The senior podiatric rotation is a one-month rotation at the Cleveland Foot and Ankle Institute, which emphasized competencies needed to enter hospital residency training. Experiences are gained in primary clinical sites and external sites affiliated with the college.

**Prerequisite:** Students must be enrolled in the Podiatric Medicine program in order to register for this course.

**Schedule Type:** Clinical Laboratory

**Contact Hours:** 48 other

**Grade Mode:** Standard Letter-S/U-IP

**CLI 80445 SENIOR ROTATION VETERANS ADMINISTRATION HOSPITAL 4 Credit Hours**

Designed to provide clinical experiences in primary care management, treatment, and problem solving for that special population in the VA medical center, Brecksville nursing home environment and extended care facilities. This rotation also gives the students the opportunity to gain experience by providing care to the medically disenfranchised veterans. Additionally, intensive educational opportunities are offered to evaluate and treat various degrees of chronic and acute wounds, as well as offer some surgical experience. Finally all students are offered an opportunity to participate in a specialized surgical clinic, designed to be interactive and skills oriented, followed by surgical case presentations and group discussions.

**Prerequisite:** Student must be enrolled in the Podiatric Medicine program.

**Schedule Type:** Clinical Laboratory

**Contact Hours:** 16 other

**Grade Mode:** Satisfactory/Unsatisfactory

**CLI 80455 COMMUNITY MEDICINE/MEDICAL IMAGING ROTATION 4 Credit Hours**

In addition to the rotations on campus, the college operates several community medicine clinics in various sites throughout the city of Cleveland to full the college's commitment to serve the community. Students are assigned to these clinics and treat patients under the supervision of members of the clinical faculty. Students are afforded the opportunity to provide care and develop an understanding and appreciation of community based health problems. Also included is training in various imaging modalities including plain film radiography, MRI and CT scanning.

**Prerequisite:** Student must be enrolled in the Podiatric Medicine program.

**Schedule Type:** Clinical Laboratory

**Contact Hours:** 16 other

**Grade Mode:** Satisfactory/Unsatisfactory

**CLI 80460 CLERKSHIP ROTATION I 4 Credit Hours**

Designed to enhance the clinical education and patient exposure of the podiatric medical student. This interdisciplinary training affords students an opportunity to share and expand their knowledge with experience members of the health care team in Cleveland and around the country. Office and hospital based programs available in almost every state, offer a diversity of clinical experiences. Students are expected to participate in a minimum of five months of external rotations during their fourth year. An orientation is conducted and a complete handbook of information is provided to the third year student to assist in this important educational process.

**Prerequisite:** Student must be enrolled in the Podiatric Medicine program.

**Schedule Type:** Clinical Laboratory

**Contact Hours:** 4 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**CLI 80465 CLERKSHIP ROTATION II 4 Credit Hours**

Designed to enhance the clinical education and patient exposure of the podiatric medical student. This interdisciplinary training affords students an opportunity to share and expand their knowledge with experience members of the health care team in Cleveland and around the country. Office and hospital based programs available in almost every state, offer a diversity of clinical experiences. Students are expected to participate in a minimum of five months of external rotations during their fourth year. An orientation is conducted and a complete handbook of information is provided to the third year student to assist in this important educational process.

**Prerequisite:** Student must be enrolled in the Podiatric Medicine program.

**Schedule Type:** Clinical Laboratory

**Contact Hours:** 4 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**CLI 80470 CLERKSHIP ROTATION III 4 Credit Hours**

Designed to enhance the clinical education and patient exposure of the podiatric medical student. This interdisciplinary training affords students an opportunity to share and expand their knowledge with experience members of the health care team in Cleveland and around the country. Office and hospital based programs available in almost every state, offer a diversity of clinical experiences. Students are expected to participate in a minimum of five months of external rotations during their fourth year. An orientation is conducted and a complete handbook of information is provided to the third year student to assist in this important educational process.

**Prerequisite:** Student must be enrolled in the Podiatric Medicine program.

**Schedule Type:** Clinical Laboratory

**Contact Hours:** 4 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**CLI 80475 CLERKSHIP ROTATION IV 4 Credit Hours**

Designed to enhance the clinical education and patient exposure of the podiatric medical student. This interdisciplinary training affords students an opportunity to share and expand their knowledge with experience members of the health care team in Cleveland and around the country. Office and hospital based programs available in almost every state, offer a diversity of clinical experiences. Students are expected to participate in a minimum of five months of external rotations during their fourth year. An orientation is conducted and a complete handbook of information is provided to the third year student to assist in this important educational process.

**Prerequisite:** Student must be enrolled in the Podiatric Medicine program.

**Schedule Type:** Clinical Laboratory

**Contact Hours:** 4 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**CLI 80480 CLERKSHIP ROTATION V 4 Credit Hours**

Designed to enhance the clinical education and patient exposure of the podiatric medical student. This interdisciplinary training affords students an opportunity to share and expand their knowledge with experience members of the health care team in Cleveland and around the country. Office and hospital based programs available in almost every state, offer a diversity of clinical experiences. Students are expected to participate in a minimum of five months of external rotations during their fourth year. An orientation is conducted and a complete handbook of information is provided to the third year student to assist in this important educational process.

**Prerequisite:** Student must be enrolled in the Podiatric Medicine program.

**Schedule Type:** Clinical Laboratory

**Contact Hours:** 4 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**CLI 80485 CLERKSHIP ROTATION VI 4 Credit Hours**

Designed to enhance the clinical education and patient exposure of the podiatric medical student. This interdisciplinary training affords students an opportunity to share and expand their knowledge with experience members of the health care team in Cleveland and around the country. Office and hospital based programs available in almost every state, offer a diversity of clinical experiences. Students are expected to participate in a minimum of five months of external rotations during their fourth year. An orientation is conducted and a complete handbook of information is provided to the third year student to assist in this important educational process.

**Prerequisite:** Student must be enrolled in the Podiatric Medicine program.

**Schedule Type:** Clinical Laboratory

**Contact Hours:** 4 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**CLI 80490 CLERKSHIP VII 4 Credit Hours**

Designed to enhance the clinical education and patient exposure of the podiatric medical student. This interdisciplinary training affords students an opportunity to share and expand their knowledge with experience members of the health care team in Cleveland and around the country. Office and hospital based programs available in almost every state, offer a diversity of clinical experiences. Students are expected to participate in a minimum of five months of external rotations during their fourth year, but are given the opportunity to add elective clerkship rotations. An orientation is conducted and a complete handbook of information is provided to the third year student to assist in this important educational process. This is an elective rotation that is available in the event that students wish to gain additional experience in a clinical setting prior to graduation.

**Prerequisite:** Student must be enrolled in the Podiatric Medicine program.

**Schedule Type:** Clinical Laboratory

**Contact Hours:** 10 other

**Grade Mode:** Satisfactory/Unsatisfactory

**CLI 80521 SENIOR MEDICINE ROTATION I 4 Credit Hours**

One month external rotation at an area hospital. Students are instructed in skills, values and knowledge necessary to perform a complete medical history and physical.

**Prerequisite:** Students must be enrolled in the Podiatric Medicine program in order to register for this course.

**Schedule Type:** Clinical Laboratory

**Contact Hours:** 48 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP



**CLI 80522 SENIOR MEDICINE ROTATION II 4 Credit Hours**

One-month external rotation at an area hospital. Students are instructed in skills, values and knowledge necessary to perform a complete medical history and physical.

**Prerequisite:** Students must be enrolled in the Podiatric Medicine program in order to register for this course.

**Schedule Type:** Clinical Laboratory

**Contact Hours:** 48 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

## Community Medicine (CMD)

**CMD 80326 PUBLIC HEALTH ADMINISTRATION 3 Credit Hours**

Public health administration comprises efforts to improve the health of communities. This course provides an overview for public health administration and practice, including organization, law, legislative relations, financing, workforce issues, leadership, and surveillance.

**Prerequisite:** Student must be enrolled in the Podiatric Medicine program.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CMD 80327 HEALTHCARE LAW AND REGULATION 3 Credit Hours**

Healthcare is one of the most heavily regulated industries in the United States. In order to contain spiraling costs, the federal and state governments are focusing on the individual provider conduct in the context of fraud, waste and abuse scrutiny. This course covers the underlying theories behind healthcare law and regulations as well as the specific provisions affecting the organization, delivery, and payment of primary health services. Administrators and clinicians will gain a basic understanding of the regulatory environment and provisions impacting their practice.

**Prerequisite:** Student must be enrolled in the Podiatric Medicine program.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

## General Medicine (GMD)

**GMD 80121 PHYSICAL ASSESSMENT AND DIAGNOSIS 3 Credit Hours**

Physiology and physical assessment are coordinated to allow students to integrate the underlying physiologic processes with physical diagnostic findings. Physiologic is a study of the basic concepts of normal organ and organ system function. Emphasis is placed on regulatory functions of each organ or system as well as the contribution of each to the whole body homeostasis. Physical diagnosis combines the patient's symptoms and signs to arrive at a diagnosis of disease. Focus is on total body examination using the traditional processes of inspection, palpation, percussion and auscultation.

**Prerequisite:** Student must be enrolled in the Podiatric Medicine program.

**Schedule Type:** Laboratory, Lecture

**Contact Hours:** .73 lecture, 2.27 lab

**Grade Mode:** Standard Letter

**GMD 80314 NEUROLOGY 2 Credit Hours**

A comprehensive study of neurological diseases that are pertinent to treatment of the podiatric patient. Includes etiologies, diagnosis and treatment of the neurological diseases.

**Prerequisite:** Student must be enrolled in the Podiatric Medicine program.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**GMD 80315 DERMATOLOGY 2 Credit Hours**

Series of lectures on dermatologic manifestations of systemic diseases. Includes the etiology, diagnosis, treatment and management of dermatologic disorders.

**Prerequisite:** Student must be enrolled in the Podiatric Medicine program.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**GMD 80316 MEDICINE I 4 Credit Hours**

The podiatric physician is an integral part of the medical team. The podiatric physician must be able to recognize systemic medical problems that manifest in the lower extremity and interface with other health care professionals for optimal Patient care. The podiatric medical/surgical resident must be able to diagnose and treat all medical diseases under the direction of an attending physician in each individual specialty, as does any other medical resident in post graduate training. Medicine GMD 80316 and GMD 80326 are divided into 8 blocks of internal medicine specialties including cardiovascular/pulmonary medicine, endocrinology, hematology/oncology, nephrology, infectious disease, rheumatology/immunology, gastrointestinal medicine, and emergency medicine. GMD 80316 emphasizes Cardiovascular/pulmonary medicine, endocrinology, infectious disease, and rheumatology/immunology. This course prepares podiatric medical students to enter clinical training experiences in the internal medicine specialties. The course emphasizes concepts and integrates knowledge from traditional science disciplines in the context of clinical application.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 4 lecture

**Grade Mode:** Standard Letter

**GMD 80326 MEDICINE II 4 Credit Hours**

The podiatric physician is an integral part of the medical team. The podiatric physician must be able to recognize systemic medical problems that manifest in the lower extremity and interface with other health care professionals for optimal Patient care. The podiatric medical/surgical resident must be able to diagnose and treat all medical diseases under the direction of an attending physician in each individual specialty, as does any other medical resident in post graduate training. Medicine GMD 80316 and GMD 80326 are divided into 8 blocks of internal medicine specialties including cardiovascular/pulmonary medicine, endocrinology, hematology/oncology, nephrology, infectious disease, rheumatology/immunology, gastrointestinal medicine, and emergency medicine. GMD 80326 emphasizes emergency medicine, Nephrology, Hematology/Oncology, and Gastrointestinal medicine. This course prepares podiatric medical students to enter clinical training experiences in the internal medicine specialties. The course emphasizes concepts and integrates knowledge from traditional science disciplines in the context of clinical application.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 4 lecture

**Grade Mode:** Standard Letter

**GMD 80327 BEHAVIORAL MEDICINE 1 Credit Hour**

Behavioral medicine is a series of lectures on major topics in the area including mood and anxiety disorders, alcoholism, substance abuse, psychoses and pain management. The presentations relate the relevance to the practice of podiatry.

**Prerequisite:** Student must be enrolled in the Podiatric Medicine program.

**Schedule Type:** Lecture

**Contact Hours:** 1 lecture

**Grade Mode:** Standard Letter

**GMD 80328 WOMEN'S HEALTH 1 Credit Hour**

Seminar covering important areas unique to women including pregnancy, contraception, infertility, cardiovascular health, osteoporosis and menopause.

**Prerequisite:** Student must be enrolled in the Podiatric Medicine program.

**Schedule Type:** Lecture

**Contact Hours:** 1 lecture

**Grade Mode:** Satisfactory/Unsatisfactory

## Podiatric Biomechanics/Orthopedics (ORT)

**ORT 80131 BIOMECHANICS I 3 Credit Hours**

Biomechanics is a comprehensive course, which stresses normal gait and foot function. Abnormalities in gait of foot mechanics are related to foot pathology.

**Prerequisite:** Enrolled in the college of podiatric medicine.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ORT 80132 REHABILITATIVE MEDICINE 2 Credit Hours**

Rehabilitative Medicine reviews various physical therapy modalities and principles of rehabilitation. Examples of application of these principles as relating to foot pathology are given.

**Prerequisite:** Enrolled in the college of podiatric medicine.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**ORT 80211 BIOMECHANICS II 2 Credit Hours**

Biomechanics II introduces common foot pathologies and their effects on function. The examination techniques utilized in the evaluation of patients are introduced as is the use of foot orthotic devices and computers in the assessment of biomechanical pathology.

**Prerequisite:** Enrolled in the College of Podiatric Medicine.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**ORT 80325 SPORTS MEDICINE 2 Credit Hours**

Sports Medicine is a comprehensive course. Students gain an understanding of running biomechanics, shoe gear construction and evaluation, and the incidence, etiology, pathomechanics, evaluation and treatment of many lower extremity sports pathologies.

**Prerequisite:** Enrolled in the college of podiatric medicine.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

## Preclinical Sciences (PCS)

**PCS 80112 CELL AND TISSUE 5 Credit Hours**

Histology is the study of the microscopic organization of the human body. Reciprocal relationships between normal structural features and their functions are emphasized. Macromolecules, organelles, cells, fundamental body tissues and organs are compared and contrasted. Light microscopic preparations are examined in laboratories, which are closely correlated with lecture topics.

**Prerequisite:** Student must be enrolled in the podiatric medicine program.

**Schedule Type:** Laboratory, Lecture

**Contact Hours:** 3 lecture, 1 lab, 1 other

**Grade Mode:** Standard Letter

**PCS 80113 STAYING ALIVE 5 Credit Hours**

The study of the physical and chemical properties of the major constituents of cells and body fluids. This includes structures, functions and biochemical mechanisms involved in the biosynthesis, utilization and degradation of amino acids, carbohydrates, lipids, proteins and nucleic acids. Also included are enzyme kinetics, bioenergetics, cellular communication, nutrition and biochemistry of specialized tissues and fluids.

**Prerequisite:** Student must be enrolled in the podiatric medicine program.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture, .5 lab, 1.5 other

**Grade Mode:** Standard Letter

**PCS 80118 MEDICAL GENETICS 2 Credit Hours**

This course provides basic principles of human genetics dealing with genetic variations and anomalies that impact medical practice. Molecular genetics, cytogenetics, genomics, and population genetics will be reviewed.

**Prerequisite:** Student must be enrolled in the podiatric medicine program.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**PCS 80119 HUMAN ANATOMY AND EMBRYOLOGY 8 Credit Hours**

The human upper limb, head and neck, thoracic, abdominal and pelvic anatomy is explored through lecture, audiovisual aids and cadaver dissection. The material is presented in a regional approach, with emphasis on structural and functional relationships, and is correlated with cadaver dissection. In addition, early events in human embryology are presented and discussed followed by coverage of regional and system-based events during embryological and fetal development. Anatomical and embryological topics are correlated throughout the course.

**Prerequisite:** Student must be enrolled in the podiatric medicine program.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 6 lecture, 4 lab

**Grade Mode:** Standard Letter

**PCS 80121 NEUROMUSCULAR SYSTEMS 5 Credit Hours**

Neuromuscular Systems covers the microanatomy, structures, pathways, connections, biochemistry and physiology of the nervous and muscular (both skeletal and smooth) systems. Students must be first year podiatric students taking Spring semester courses. Students must be first year podiatric students taking Spring semester courses.

**Prerequisite:** Student must be enrolled in the podiatric medicine program.

**Schedule Type:** Lecture

**Contact Hours:** 5 lecture

**Grade Mode:** Standard Letter

**PCS 80122 CARDIOVASCULAR SYSTEM 3 Credit Hours**

Cardiovascular System covers the microanatomy, structures, biochemistry and physiology of the heart, blood vascular and lymphatic systems. Students must be first year podiatric students taking Spring semester courses.

**Prerequisite:** Student must be enrolled in the Podiatric Medicine program.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PCS 80123 RENAL AND RESPIRATORY SYSTEMS 3 Credit Hours**

Renal and Respiratory Systems covers the microanatomy, structures, pathways, connections, biochemistry and physiology of the renal and respiratory systems. Students must be first year podiatric students taking Spring semester courses. Pre/corequisites: None Corequisites: None

**Prerequisite:** Student must be enrolled in the Podiatric Medicine program.

**Schedule Type:** Lecture

**Contact Hours:** 45 lecture, 0 lab, 0 other

**Grade Mode:** Standard Letter

**PCS 80124 LOWER EXTREMITY ANATOMY 8 Credit Hours**

Lower extremity anatomy presents the detailed macroscopic anatomy of the lower limb. The course is augmented with radiographs, MRI, surface anatomy and cross sectional studies. The course includes an introduction to basic concepts of podiatric medicine, surgery and biomechanics. Laboratory instruction includes a detailed dissection of the lower limb, supplemented with computerized educational materials and study of natural bone specimens.

**Prerequisite:** Student must be enrolled in the podiatric medicine program.

**Schedule Type:** Laboratory, Lecture

**Contact Hours:** 4 lecture, 4 lab

**Grade Mode:** Standard Letter

**PCS 80128 MEDICAL MICROBIO/IMMUNOLOGY 6 Credit Hours**

This course will introduce the student to the basic concepts, characteristics and techniques used in the study of the clinically significant microbic groups: viruses, bacteria, fungi, and protozoa. The structure, metabolism, genetics, control and laboratory techniques of each microbic group will be described. The roles and outcomes of these organisms in producing manifestations of human infection and disease will be investigated. This course will also introduce the student to the molecular, cellular and organismal mechanisms responsible for the human immune response system. Laboratory will provide hands on experience in staining, cultivation, identification, sensitivity testing, and immunologic techniques.

**Prerequisite:** Student must be enrolled in the podiatric medicine program.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 5 lecture, 1 lab

**Grade Mode:** Standard Letter

**PCS 80218 HUMAN SYSTEMS PATHOLOGY I 8 Credit Hours**

The study of disease with emphasis on epidemiology, pathogenesis, natural history, morphologic appearance and relationship to clinical manifestation. Emphasis is placed on basic cellular pathologic processes (injury, inflammation and repair, neoplasia), and description of diseases organized by organ system. An introduction to the concepts of clinical decision making through the use of case studies and current clinical literature will be emphasized.

**Prerequisite:** Student must be enrolled in the podiatric medicine program.

**Schedule Type:** Lecture

**Contact Hours:** 8 lecture

**Grade Mode:** Standard Letter

**PCS 80219 PHARMACOLOGY AND THERAPEUTICS I 4 Credit Hours**

Historically, the clinician was responsible for information about the sources, physical and chemical properties, compounding and dispensing of drugs. Today the practitioner's responsibility requires the rational clinical use of therapeutic agents for the prevention, diagnosis, and treatment of disease based on an understanding of pharmacological principles. This course is designed to prepare practitioners to prescribe for maximum benefit and to recognize the clinical ramifications of concomitant drug therapy.

**Prerequisite:** Student must be enrolled in the podiatric medicine program.

**Schedule Type:** Lecture

**Contact Hours:** 4 lecture

**Grade Mode:** Standard Letter

**PCS 80228 HUMAN SYSTEMS PATHOLOGY II 8 Credit Hours**

The study of disease with emphasis on epidemiology, pathogenesis, natural history, morphologic appearance and relationship to clinical manifestation. Emphasis is placed on basic cellular pathologic processes (injury, inflammation and repair, neoplasia), and description of diseases organized by organ system. An introduction to the concepts of clinical decision making through the use of case studies and current clinical literature will be emphasized.

**Prerequisite:** Student must be enrolled in the podiatric medicine program.

**Schedule Type:** Lecture

**Contact Hours:** 8 lecture

**Grade Mode:** Standard Letter

**PCS 80229 PHARMACOLOGY AND THERAPEUTICS II 4 Credit Hours**

Historically, the clinician was responsible for information about the sources, physical and chemical properties, compounding and dispensing of drugs. Today the practitioner's responsibility requires the rational clinical use of therapeutic agents for the prevention, diagnosis, and treatment of disease based on an understanding of pharmacological principles. This course is designed to prepare practitioners to prescribe for maximum benefit and to recognize the clinical ramifications of concomitant drug therapy.

**Prerequisite:** Student must be enrolled in the podiatric medicine program.

**Schedule Type:** Lecture

**Contact Hours:** 4 lecture

**Grade Mode:** Standard Letter

**PCS 80230 PRECLINICAL SCIENCES COMPETENCY 4 Credit Hours**

This course will assist students with preparation for taking the APMLE Part 1 board examination. Specifically this course will address the preclinical science areas of general anatomy (Including embryology, histology, genetics and neuroanatomy); lower extremity anatomy; biochemistry; physiology; microbiology and immunology; pathology; and pharmacology. Students must be in their the second year.

**Prerequisite:** Student must be enrolled in the Podiatric Medicine program.

**Schedule Type:** Lecture

**Contact Hours:** 4 lecture

**Grade Mode:** Satisfactory/Unsatisfactory

## Podiatric Medicine (PMD)

### PMD 80113 MEDICAL ETHICS 1 Credit Hour

The focus of the medical ethics curriculum is to provide a foundation in ethical analysis, augment knowledge of contemporary bioethics issues, and offer experience applying ethical reasoning to clinical cases. The goal of this course is to promote discussion of the ethical responsibilities of a doctor to their patients.

**Prerequisite:** Enrolled in the college of podiatric medicine.

**Schedule Type:** Lecture

**Contact Hours:** 1 lecture

**Grade Mode:** Standard Letter

### PMD 80114 PRINCIPLES OF MEDICAL RESEARCH 1 Credit Hour

It is important for a podiatric physician to have developed the ability to read and interpret the medical literature. This requires a fundamental understanding of biostatistics, epidemiology, and research design. This course provides a framework for the development of an evidence-based methodology to patient care.

**Prerequisite:** Enrolled in the college of podiatric medicine.

**Schedule Type:** Lecture

**Contact Hours:** 1 lecture

**Grade Mode:** Standard Letter

### PMD 80117 PODIATRY, PROFESSIONALISM AND SOCIETY I 1 Credit Hour

This introductory course is the first in a series that spans all four years of the DPM program. The subject matter is functionally relevant but nontraditional in nature with respect to classic medical education. Topics cover a wide range of subjects that podiatric medical students encounter in their academic and professional careers. Students will participate in discussions and projects on ethics, socio-behavior, and practice related topics such as professionalism, communication, and time and financial management. Other topics related to the National Board Examinations, personal health, and the changing healthcare system will also be covered. Ultimately students will develop a more unique level understanding and appreciation of the above referenced themes as they advance their learning. An emphasis on the first year of podiatric medical school is the focus of this course.

**Prerequisite:** Enrolled in the college of podiatric medicine.

**Schedule Type:** Lecture

**Contact Hours:** 1 lecture

**Grade Mode:** Standard Letter

### PMD 80132 LOW EXTREMITY ASSESSMENT AND DIAGNOSIS 2 Credit Hours

A comprehensive approach to physical examination, which combines the patient's symptoms and the physical signs to arrive at a diagnosis of disease. It is accomplished by training students in the methods of history taking and physical examination. The course focuses on lower extremity examination. The traditional processes of inspection, palpation, percussion and auscultation are emphasized.

**Prerequisite:** Enrolled in the college of podiatric medicine.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 1 lecture, 2 lab

**Grade Mode:** Standard Letter

### PMD 80133 INTRODUCTION MEDICAL IMAGING 1 Credit Hour

Podiatric physicians are fully licensed to order, perform and interpret radiologic studies of the foot and ankle. As operators of ionizing x-ray equipment, all practitioners must undergo basic training in x-ray physics, image control and quality assurance, safety and patient positioning. These four building blocks comprise the foundation of this course in fundamentals.

**Prerequisite:** Student must be enrolled in the college of podiatric medicine.

**Schedule Type:** Lecture

**Contact Hours:** 1 lecture

**Grade Mode:** Standard Letter

### PMD 80211 PODIATRIC MEDICINE I 2 Credit Hours

This is a core course designed to present the 2nd year student with the full spectrum of pathology, which he or she will encounter during his or her clinical training and later in private practice. Topics include infectious disease, wound care, rheumatology, vascular medicine, and the diabetic foot. The student will be instructed in the evaluation of foot and ankle pathology including signs, symptoms, and differential diagnosis. Laboratory and radiographic evaluation will be discussed when appropriate. The student will also be instructed in the treatment alternatives available in each case.

**Prerequisite:** Enrolled in the college of podiatric medicine.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

### PMD 80214 RADIOLOGY AND MEDICAL IMAGING I 2 Credit Hours

This course encompasses the fundamentals of modern musculoskeletal imaging, with particular emphasis on the foot and ankle. The course begins with basic principles of plain film radiographic imaging, an approach that emphasizes the correlation of abnormal findings with basis pathologic differential consideration. Lectures will then introduce the student to pedal biomechanical radiography before moving to cover the imaging topics such as the pedal arthropathies, infection and the diabetic foot. The semester will end with a detailed presentation of the diabetic neuro-osteoarthropathy (Charcot arthropathy).

**Prerequisite:** Enrolled in the college of podiatric medicine.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

### PMD 80217 PODIATRY, PROFESSIONALISM AND SOCIETY II 1 Credit Hour

This course is the second in a series that spans all four years of the DPM program. The subject matter is functionally relevant but nontraditional in nature with respect to classic medical education. Topics cover a wide range of subjects that podiatric medical students encounter in their academic and professional careers. Students will participate in discussions and projects on ethics, socio-behavior, and practice related topics such as professionalism, communication, and time and financial management. Other topics related to personal health, and the changing healthcare system will also be covered. Ultimately students will develop a more unique level understanding and appreciation of the above referenced themes as they advance their learning. The content will be relevant to the second year podiatric medical school student.

**Prerequisite:** Enrolled in the college of podiatric medicine.

**Schedule Type:** Lecture

**Contact Hours:** 1 lecture

**Grade Mode:** Standard Letter



**PMD 80221 PODIATRIC MEDICINE II 2 Credit Hours**

This is a core course designed to present the 2nd year student with the full spectrum of pathology, which he or she will encounter during his or her clinical training and later in private practice. Topics include infectious disease, wound care, peripheral neuropathy, vascular medicine, and the diabetic foot. The student will be instructed in the evaluation of foot and ankle pathology including signs, symptoms, and differential diagnosis. Laboratory and radiographic evaluation will be discussed when appropriate. The student will also be instructed in the treatment alternatives available in each case.

**Prerequisite:** Enrolled in the college of podiatric medicine.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**PMD 80222 PODIATRIC MEDICAL SKILLS 2 Credit Hours**

Podiatric Medical Skills is a practical course, which includes strapping and padding, instrument dexterity, local anesthetic injection, nail avulsion technique, blood glucose finger stick, handheld Doppler exam, fitting for diabetic shoes, arthrometric examination and casting for orthoses. Students are taught the indications and proper application of adhesive bandages and splints for the prevention of injury, control of foot function and treatment of injuries to the foot and lower extremity. Padding is the treatment of foot pathology by redistribution of weight, stress and friction. Students are taught how to relieve acute and chronic pathologies of the foot through the use of various padding materials, or prefabricated pads. Students also gain an understanding of the theory of pad placement. Students are taught the proper techniques for performing toenail avulsions, blood glucose finger sticks, and using the handheld Doppler. Students are taught the proper methods of fitting for diabetic shoes, performing a foot and ankle arthrometric examination and casting methods for foot orthoses.

**Prerequisite:** Enrolled in the college of podiatric medicine.

**Schedule Type:** Laboratory

**Contact Hours:** 2 lab

**Grade Mode:** Satisfactory/Unsatisfactory

**PMD 80224 RADIOLOGY AND MEDICAL IMAGING II 2 Credit Hours**

The Spring semester course will continue to the topic of imaging complex diabetic foot problems, focusing on non-invasive imaging modalities as potential problem solvers. The first of these will be radionuclide imaging modalities, which will be covered in detail. From the diabetic foot, the course will then logically continue onto defining and then detailing the classic metabolic bone disorders. The course will then delve into the basics of MR and CT sectional imaging. The course will then formally cover applications to common pedal problems such as infection, trauma, and bone and soft tissue tumors. The course will then conclude with an introduction to diagnostic musculoskeletal ultrasound.

**Prerequisite:** Enrolled in the college of podiatric medicine.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**PMD 80317 PODIATRY PROF SOCIETY III 1 Credit Hour**

This course is the third in a series that spans all four years of the DPM program. The subject matter is functionally relevant but nontraditional in nature with respect to classic medical education. Topics cover a wide range of subjects that podiatric medical students encounter in their academic and professional careers. Student will participate in discussions and projects on ethics, socio-behavior, and practice related topics related to personal health and the changing healthcare system will also be covered. Ultimately, students will develop a more unique level understanding and appreciation of the above referenced themes as they advance their learning. The content will be relevant to the third year podiatric medical school student.

**Prerequisite:** Enrolled in the college of podiatric medicine.

**Schedule Type:** Lecture

**Contact Hours:** 1 lecture

**Grade Mode:** Standard Letter

**PMD 80318 PEDIATRICS 2 Credit Hours**

Pediatrics is a comprehensive course, which introduces general pediatric pathologic processes, pediatric H&P, and emphasizes the incidence, etiology, pathomechanics, evaluation and treatment of common lower extremity pathology in children.

**Prerequisite:** This course has prerequisites of successful completion of all 1st and 2nd year curriculum in the college of podiatric medicine.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**PMD 80396 INDEPENDENT STUDY 5 Credit Hours**

Independent study in Podiatric Medicine.

**Prerequisite:** Enrolled in the college of podiatric medicine.

**Schedule Type:** Individual Investigation

**Contact Hours:** 5 other

**Grade Mode:** Satisfactory/Unsatisfactory

**PMD 80417 PODIATRY, PROFESSIONALISM AND SOCIETY IV 4 Credit Hours**

This course is the last in a series that spans all four years of the DPM program. The subject matter is functionally relevant but nontraditional in nature with respect to classic medical education. Topics cover a wide range of subjects that podiatric medical students encounter in their academic and professional careers. Students will practice self-directed learning while preparing for graduation. There will be discussions and projects in various areas as ethics, social behavior, and practice related topics such as professionalism, communication, business, and courtroom law/malpractice. Other topics related to personal health, and the changing healthcare system will also be covered. Ultimately, students will develop a more unique level understanding and appreciation of the above referenced themes as they finalize their DPM degree program. The content will be relevant to the fourth year podiatric medical school student.

**Prerequisite:** Enrolled in the college of podiatric medicine.

**Schedule Type:** Lecture

**Contact Hours:** 4 lecture

**Grade Mode:** Standard Letter

**PMD 80495 ST PODIATRIC GEN MED 1-4 Credit Hours**

(Repeatable for maximum 8 credit hours) The special topics course is to sample new offerings on various topics.

**Prerequisite:** Enrolled in the college of podiatric medicine.

**Schedule Type:** Lecture

**Contact Hours:** 1-4 lecture

**Grade Mode:** Standard Letter



## Podiatric Surgery (SUR)

### **SUR 80221 INTRODUCTION TO PODIATRIC SURGERY 2 Credit Hours**

This course is designed to provide the 2nd year podiatric medical student with a comprehensive understanding of the basic and fundamental principles and techniques of surgery, with emphasis on wound healing, closure techniques, hemostasis, lower extremity tourniquets and basic surgical procedures. Surgical and hospital protocol, charting, instrumentation and injection techniques are taught in this course, along with basic forefoot surgery, including nail disorders, soft tissue, skin tumors and digital surgery. The use of local anesthetic agents including indications, classification, pharmacology, adverse reactions (and treatment of such reactions) and injection techniques will be discussed. In addition, the course provides an orientation to operating room protocol, allowing students to master necessary techniques of asepsis, gowning, gloving and surgical scrubbing. Introduction to these skills will be taught in weekly workshops in the surgical skills lab.

**Prerequisite:** Enrolled in the college of podiatric medicine.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

### **SUR 80313 PODIATRIC SURGERY 2 Credit Hours**

A comprehensive working knowledge of common deformities of the foot is essential to the podiatric physician in providing comprehensive care of patients. This course provides the 3rd year podiatric medical student with the knowledge of surgical management of patients and their foot deformities. The course includes material on the etiology, clinical and radiographic evaluation, indications and contraindications, as well as postoperative considerations and care. These courses discuss the surgical management of deformities of the foot, ankle and lower leg and include surgical complications. In addition, several lectures are dedicated to special topics, such as AO/ASIF Fixation, Bio-materials, Arthroscopic surgical procedures and reconstructive foot and ankle procedures. Weekly skills workshops will be held in the surgical skills laboratory. Emphasis is placed on current and prevailing concepts and techniques employed by the podiatric physician.

**Prerequisite:** Enrolled in the college of podiatric medicine.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

### **SUR 80323 PODIATRIC SURGERY 2 Credit Hours**

A comprehensive working knowledge of common deformities of the foot is essential to the podiatric physician in providing comprehensive care of patients. This course provides the 3rd year podiatric medical student with the knowledge of surgical management of patients and their foot deformities. The course includes material on the etiology, clinical and radiographic evaluation, indications and contraindications, as well as postoperative considerations and care. These courses discuss the surgical management of deformities of the foot, ankle and lower leg and include surgical complications. In addition, several lectures are dedicated to special topics, such as AO/ASIF Fixation, Bio-materials, Arthroscopic surgical procedures and reconstructive foot and ankle procedures. Weekly skills workshops will be held in the surgical skills laboratory. Emphasis is placed on current and prevailing concepts and techniques employed by the podiatric physician.

**Prerequisite:** Enrolled in the college of podiatric medicine.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

### **SUR 80325 TRAUMATOLOGY 2 Credit Hours**

The purpose of the course is to provide the 3rd year podiatric medical students with a broad overview and appreciation of the major trauma areas of the foot, including the midfoot, rearfoot, ankle and lower leg. A strong effort is made to correlate the mechanical, surgical, physiologic and anatomic principles of surgery with emphasis on their implications and applications in major reconstructive surgery and the management of the trauma patient who presents with foot and or ankle trauma. Surgical procedures for the management of specific trauma situations will be discussed, as well as indications, contraindications, and post-operative management. An overall view of the trauma patient as viewed in a Level I trauma center will also be included as this is a major responsibility for the podiatric physician treating the trauma patient.

**Prerequisite:** Enrolled in the college of podiatric medicine.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

## Podiatric Medicine - D.P.M.

### **College of Podiatric Medicine**

6000 Rockside Woods Blvd.

Independence

216-231-3300 or 800-238-7903

podiatry@kent.edu

www.kent.edu/cpm

## Description

The Doctor of Podiatric Medicine degree in Podiatric Medicine prepares student for the podiatric medicine field. The podiatric physician is a health professional who is involved with examination, prevention, diagnosis, and treatment of foot disorders by physical, medical and surgical means. A podiatric medicine doctor is trained to detect the signs of systemic disease which may appear first in the lower extremity, such as diabetes or circulatory disorders. When such diagnoses are made, the podiatric physician consults with the patient's family doctor concerning the systemic disease.

A career in podiatric medicine can include the areas of primary care, surgery, orthopedics, sports medicine, geriatrics and pediatrics.

### **Fully Offered At:**

- Kent Campus - Independence location

## Accreditation

The D.P.M. degree in Podiatric Medicine is accredited by the Council on Podiatric Medical Education (CPME) of the American Podiatric Medical Association (APMA).

## Admission Requirements

The College of Podiatric Medicine requires that candidates for admission complete a minimum 90 semester credit hours (or minimum 135 quarter hours), including the following prerequisites:

- 6 semesters (or 9 quarter hours) of English
- 8 semesters (or 12 quarter hours) of biology<sup>1</sup>
- 8 semesters (or 12 quarter hours) of general/inorganic chemistry<sup>1</sup>

- 8 semesters (or 12 quarter hours) of organic chemistry<sup>1</sup>
- 8 semesters (or 12 quarter hours) of physics<sup>1</sup>

<sup>1</sup> All science coursework must include labs, when applicable.

Nearly all of entering Podiatric Medicine students will have earned a bachelor's or advanced degree prior to matriculation; however, students may be granted admission with the required undergraduate coursework (90 semester hours or 135 quarter hours) and prerequisites completed. In addition to required coursework, the following classes are recommended: biochemistry, histology, anatomy and physiology, neurobiology and microbiology.

The College of Podiatric Medicine requires candidates to take the Medical College Admission Test (MCAT) prior to matriculation. Scores must be within three years of the application date. Candidates may apply before taking the MCAT; however, the college will not be able to take final admissions action until official MCAT scores are received by the application service (AACPMAS). Candidates should plan on taking the MCAT no later than May of the year they plan to matriculate.

Applicants should furnish at least one academic letter of recommendation or a composite letter from a pre-medical advisory committee, and one letter from a practicing doctor of podiatric medicine.

#### English Language Proficiency Requirements for International Students:

All international students must provide proof of English language proficiency (unless they meet specific exceptions) by earning a minimum 587 TOEFL score (94 on the Internet-based version), minimum 82 MELAB score, minimum 7.0 IELTS score, minimum 65 PTE Academic score or minimum 120 Duolingo English Test score. For more information on international admission, visit the Office of Global Education's admission website.

For more information about graduate admissions, please visit the Graduate Studies website.

#### Technical Standards and Essential Requirements for Student Education at Kent State University College of Podiatric Medicine.

The College of Podiatric Medicine is committed to the admission and advancement of all qualified students. College policy prohibits discrimination against anyone solely based on race, sexual orientation, gender, veteran status, color, national origin, religion, age, handicap or disability.

The faculty and administration have adopted the following technical standards and essential requirements that must be met by all students for progression and graduation. These technical standards expected of students seeking the degree of doctor of Podiatric Medicine reflect the college's highest commitment to the safety of its students and patients, and recognize the essential functions of the profession of podiatric medicine.

The following standards and requirements describe the academic abilities and non-academic qualifications that are essential to the program of instruction, are directly related to the licensing requirements, and are directly related to those physical abilities, mental abilities, skills, attitudes and behaviors that students must demonstrate or perform at each stage of their education to ultimately ensure patient safety.

- **Visual observation and integration:** Candidates and students must have sufficient vision to observe demonstrations, video materials, and slides through a microscope and computer screens. They

must acquire information from written documents, radiographs, photographs, charts and diagrams. They must be able to observe a patient accurately close at hand and at a distance to assess asymmetry, range of motion and tissue/texture changes.

- **Communication:** Candidates and students must be able to communicate effectively in oral and written formats, and in settings where time span is limited. This includes communication in clinical and laboratory settings. Candidates must be able to accurately elicit information in a timely and efficient manner. Candidates must be able to describe a patient's condition to the patient and to others in the diagnosis and treatment process.
- **Other sensory capacities:** Students must independently be able to take an oral history, do stethoscopy and communicate while wearing a surgical mask. Students must also have sufficient somatosensory capacity to palpate pulses, use a tuning fork and assess skin temperature.
- **Motor functions:** Candidates and students must have sufficient motor function reasonably required to undertake classes, laboratories and demonstrations, to provide general patient care as well as emergency treatment to patients. This includes cadaver dissection, microscopy, aseptic technique and safe handling of microbiological specimens. Also included is the motor capacity for chart and prescription writing, palpation, percussion, auscultation and other diagnostic maneuvers. All of these tasks must be done in a timely and efficient manner within prescribed time limitations relative to the context of a practicing physician. Examples of common daily treatments include, but are not limited to, palliative care of foot and ankle problems, injections, orthotic impressions, taking and processing of pedal radiographs, and performance of soft tissue and osseous tissue surgical procedures. Examples of emergency treatments include CPR, administration of intravenous medications, the opening of obstructed airways, and hemostasis techniques.
- **Intellectual, conceptual, quantitative and integrative abilities:** Candidates must have sufficient cognitive abilities and effective learning techniques to assimilate the detailed and complex information presented in the medical student curriculum. Candidates must engage in critical thinking and problem solving. They must be able to learn through a variety of modalities including, but not limited to, classroom and lab instruction and exams; small group, team and collaborative activities; individual study; preparation and presentation of reports; and use of computer technology. Candidates must be able to consistently, quickly and accurately measure, calculate, interpret, reason, memorize, analyze, synthesize and transmit information across modalities. Candidates must be able to demonstrate these skills and procedures under pressure and in a timely fashion across a range of conditions and time frames. They must be able to recognize and draw conclusions under pressure and in a timely fashion across a range of conditions and time frames. They must be able to recognize and draw conclusions about three-dimensional spatial relationships and logical sequential relationships among events. These skills and abilities are fully defined by the faculty and explained in course syllabi.
- **Behavioral and social attributes:** Candidates must demonstrate the maturity and emotional stability required for full use of their intellectual abilities. They must accept responsibility for learning, exercising good judgement and promptly completing all responsibilities attendant to the diagnosis and care of patients. They must understand the legal and ethical aspects of the practice of medicine and function within both the law and ethical standards of the medical profession. Candidates must be able to work effectively, respectfully and professionally as part of the healthcare team and to

interact with patients, their families, and health care personnel in a courteous, professional and respectful manner. They must be able to tolerate physically taxing workloads and long work hours, to function effectively under stress and to display flexibility and adaptability to changing environments.

- **Involvement in invasive and exposure-prone procedures:** Candidates and students must be qualified to be personally and actively involved in invasive and exposure-prone procedures without being a danger to patients, other health care professionals or fellow students. They must demonstrate adherence to the universal precautions as defined by the Center for Disease Control. As part of the technical standards and essential requirements to matriculate at the college, the following statement shall apply: If the student is HIV seropositive, the student may be restricted by the State Medical Board of Ohio from performing procedures required for graduation. If the student is HBV and or HCV positive and does not demonstrate non-infectivity, the student may be restricted by the State Medical Board of Ohio from performing procedures required for graduation. Any questions regarding these requirements should be directed to the senior associate dean.

## Program Learning Outcomes

The following educational outcomes will be attained as a result of the cumulative effect of both didactic instruction in preclinical courses and clinical courses, as well as clinical experiences afforded through clinical rotations and clerkship experiences. The goal is to prepare the graduate for successful entry into postdoctoral training program.

1. To have an appreciation of the ethical responsibilities of the physician to his or her patient.
  2. Demonstrate an understanding of medical statistics, epidemiology and research methods.
  3. Diagnose common foot and ankle pathology utilizing signs, symptoms, differential diagnosis, laboratory and X-ray evaluations; and discuss treatment alternatives available in each diagnosis, including the following:
    - a. Hallux valgus
    - b. Hallux limits
    - c. Contracted and deformed lesser digits
    - d. Hyperpronation on hindfoot
    - e. Hypersupination of hindfoot
    - f. Morton's Neuroma
    - g. Capsulitis of forefoot
    - h. Tendonitis/bursitis
    - i. Heel Spur syndrome
    - j. Nail deformities (Onychomycosis)
    - k. Verruca
    - l. Stress fracture
  - m. Ulcers
  - n. Bacterial infections
  - o. Fungal infections
  - p. Ankle sprains
  - q. Plantar calluses
  - r. Degenerative joint disease
  - s. Gouty arthritis
  - t. Rigid flatfoot
4. To have an understanding of the medical, social, economic, ethnic and cultural issues and concerns of the geriatric population.
  5. To have an appreciation of civil, criminal and administrative laws that impact podiatric practice.
  6. To have knowledge of podiatric practice administration.
  7. To have an understanding of the public health issues that impact podiatric practice.
  8. To be able to provide podiatric primary care in a clinical setting.
  9. Is proficient in the ability to perform a history and basic physical examination, including the lower extremity.
  10. Recognize the common major dermatologic conditions, and manage pedal dermatological problems.
  11. Be knowledgeable of the major systemic diseases, their pedal manifestations and implication in the management of the podiatric patient.
  12. Demonstrate knowledge of the pathology, clinical presentation and treatment of general neurological disease, and understand the pedal manifestations of neurological diseases.
  13. Understand common emergent medical problems and their management.
  14. Ability to perform a complete podiatric biomechanical arthrometric examination, and interpret the results.
  15. Prescribe and institute orthotic or other mechanical therapy (physical therapy, activity modification, exercise therapy, shoe therapy, etc.), based upon findings of a podiatric biomechanical arthrometric examination.
  16. Evaluate, diagnose, prescribe and institute treatment for commonly encountered and mechanically induced injuries or conditions occurring in the lower extremity.
  17. Perform a complete lower extremity examination on pediatric/aged patient, comparing developmental milestones to the norm, and identifying common lower extremity injuries and conditions.
  18. Be able to evaluate medical status of a pre-op patient, and recognize and prepare treatment plan for common post-op complications.
  19. Understand concepts of wound healing (both soft tissue and bone), and utilize those concepts to evaluate and manage surgical wounds.
  20. Understand and perform basic surgical skills, including administration of local anesthetics, aseptic techniques, instrumentation, homeostasis techniques suture materials and needle selection, suturing, hand ties, tourniquets application and gowning and gloving.
  21. Understand concepts necessary to determine the indications for forefoot and rearfoot surgical reconstruction procedure, including:
    - a. Pre-operative evaluation and procedure selection.
    - b. Description of the procedure.
    - c. Reasonable postoperative follow-up plan.
  22. Recognize various types of foot and ankle trauma, including fractures, dislocations, sprains, tendon ruptures, and formulates a treatment plan.
  23. Recognize and implement treatment plan for soft tissue or bone infection, including surgical procedure and selection of antibiotic agents.

# Program Requirements

## Major Requirements

Code	Title	Credit Hours
<b>Major Requirements</b> <sup>1</sup>		
CMD 80326	PUBLIC HEALTH ADMINISTRATION	3
CMD 80327	HEALTHCARE LAW AND REGULATION	3
GMD 80121	PHYSICAL ASSESSMENT AND DIAGNOSIS	3
GMD 80314	NEUROLOGY	2
GMD 80315	DERMATOLOGY	2
GMD 80316	MEDICINE I	4
GMD 80326	MEDICINE II	4
GMD 80327	BEHAVIORAL MEDICINE	1
GMD 80328	WOMEN'S HEALTH	1
ORT 80131	BIOMECHANICS I	3
ORT 80132	REHABILITATIVE MEDICINE	2
ORT 80211	BIOMECHANICS II	2
ORT 80325	SPORTS MEDICINE	2
PCS 80112	CELL AND TISSUE	5
PCS 80113	STAYING ALIVE	5
PCS 80118	MEDICAL GENETICS	2
PCS 80119	HUMAN ANATOMY AND EMBRYOLOGY	8
PCS 80124	LOWER EXTREMITY ANATOMY	8
PCS 80128	MEDICAL MICROBIO/IMMUNOLOGY	6
PCS 80121	NEUROMUSCULAR SYSTEMS	5.0
PCS 80122	CARDIOVASCULAR SYSTEM	3.0
PCS 80123	RENAL AND RESPIRATORY SYSTEMS	3.0
PCS 80230	PRECLINICAL SCIENCES COMPETENCY	4.0
PCS 80218	HUMAN SYSTEMS PATHOLOGY I	8
PCS 80219	PHARMACOLOGY AND THERAPEUTICS I	4
PCS 80228	HUMAN SYSTEMS PATHOLOGY II	8
PCS 80229	PHARMACOLOGY AND THERAPEUTICS II	4
PMD 80113	MEDICAL ETHICS	1
PMD 80114	PRINCIPLES OF MEDICAL RESEARCH	1
PMD 80117	PODIATRY, PROFESSIONALISM AND SOCIETY I	1
PMD 80132	LOW EXTREMITY ASSESSMENT AND DIAGNOSIS	2
PMD 80133	INTRODUCTION MEDICAL IMAGING	1
PMD 80211	PODIATRIC MEDICINE I	2
PMD 80214	RADIOLOGY AND MEDICAL IMAGING I	2
PMD 80217	PODIATRY, PROFESSIONALISM AND SOCIETY II	1
PMD 80221	PODIATRIC MEDICINE II	2
PMD 80222	PODIATRIC MEDICAL SKILLS	2
PMD 80224	RADIOLOGY AND MEDICAL IMAGING II	2
PMD 80317	PODIATRY PROF SOCIETY III	1
PMD 80318	PEDIATRICS	2
PMD 80417	PODIATRY, PROFESSIONALISM AND SOCIETY IV	4
SUR 80221	INTRODUCTION TO PODIATRIC SURGERY	2
SUR 80313	PODIATRIC SURGERY	2
SUR 80323	PODIATRIC SURGERY	2
SUR 80325	TRAUMATOLOGY	2
<b>Clinical Requirements</b>		
<i>Second Year Clinical Option</i> <sup>2</sup>		
CLI 80200	STANDARDIZED PATIENTS ROTATION	1
<i>Third Year Clinical Options</i> <sup>3</sup>		
32		

CLI 80310	PODIATRIC SURGERY ROTATION	
CLI 80315	SURGICAL SKILLS WORKSHOP	
CLI 80320	RADIOLOGY ROTATION	
CLI 80351	PODIATRIC MEDICINE/BIOMECHANICS (EUCLID)	
CLI 80352	PODIATRIC MEDICINE/BIOMECHANICS (INDEPENDENCE)	
CLI 80365	PRIMARY CARE/VETERANS ADMINISTRATION	
CLI 80380	SIMULATED PATIENTS I	
CLI 80381	SIMULATED PATIENTS II	
<i>Third Year Summer Clinical Options, choose from the following</i> <sup>4</sup>		8-12
CLI 80441	SENIOR CLINICAL ROTATION I	
CLI 80442	SENIOR CLINICAL ROTATION II	
CLI 80445	SENIOR ROTATION VETERANS ADMINISTRATION HOSPITAL	
CLI 80455	COMMUNITY MEDICINE/MEDICAL IMAGING ROTATION	
CLI 80460	CLERKSHIP ROTATION I	
CLI 80465	CLERKSHIP ROTATION II	
CLI 80470	CLERKSHIP ROTATION III	
CLI 80475	CLERKSHIP ROTATION IV	
CLI 80480	CLERKSHIP ROTATION V	
CLI 80521	SENIOR MEDICINE ROTATION I	
CLI 80522	SENIOR MEDICINE ROTATION II	
<i>Fourth Year Clinical Options, choose from the following</i> <sup>4,5</sup>		28-32
CLI 80441	SENIOR CLINICAL ROTATION I	
CLI 80442	SENIOR CLINICAL ROTATION II	
CLI 80445	SENIOR ROTATION VETERANS ADMINISTRATION HOSPITAL	
CLI 80455	COMMUNITY MEDICINE/MEDICAL IMAGING ROTATION	
CLI 80460	CLERKSHIP ROTATION I	
CLI 80465	CLERKSHIP ROTATION II	
CLI 80470	CLERKSHIP ROTATION III	
CLI 80475	CLERKSHIP ROTATION IV	
CLI 80480	CLERKSHIP ROTATION V	
CLI 80521	SENIOR MEDICINE ROTATION I	
CLI 80522	SENIOR MEDICINE ROTATION II	
<i>Fourth Year Summer Clinical Options, choose from the following</i> <sup>4,5</sup>		0-4
CLI 80441	SENIOR CLINICAL ROTATION I	
CLI 80442	SENIOR CLINICAL ROTATION II	
CLI 80445	SENIOR ROTATION VETERANS ADMINISTRATION HOSPITAL	
CLI 80455	COMMUNITY MEDICINE/MEDICAL IMAGING ROTATION	
CLI 80460	CLERKSHIP ROTATION I	
CLI 80465	CLERKSHIP ROTATION II	
CLI 80470	CLERKSHIP ROTATION III	
CLI 80475	CLERKSHIP ROTATION IV	
CLI 80480	CLERKSHIP ROTATION V	
CLI 80521	SENIOR MEDICINE ROTATION I	
CLI 80522	SENIOR MEDICINE ROTATION II	
Minimum Total Credit Hours:		214

<sup>1</sup> Students placed in Pathway II (due to two failures on the American Podiatric Medical Licensing Examination, APMLE Part I) are required to take PMD 80396 Independent Study, increasing the minimum total credit hours by 5 credit hours.

- <sup>2</sup> 1 credit hour taken either Fall or Spring semester
- <sup>3</sup> 32 credit hours taken either Fall or Spring semester and follow a class rotation
- <sup>4</sup> Students are separated into twelve groups with a different rotation each month. Students are permitted to take one month off as an elective month. CLI 80485 and CLI 80490 are elective clerkship rotations available to students who wish to gain further clinical experience on top of the required five clerkship rotations. Please note, once a student registers for these electives, the required minimum total credit hours for the student will increase by 4 credit hours for each elective. PMD 80495 may be available for students to take as an elective on top of the program requirements.
- <sup>5</sup> Take courses not taken during 3rd year summer semester.

with extenuating circumstances must have the approval of the Council on Podiatric Medical education (CPME).

- There is no contract stated or implied, between the college and the students that a degree will be conferred at any stated time, or at all.

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## Progression Requirements

Students whose first semester of coursework in the DPM program is fall 2016 or later are required to meet the following minimum overall GPAs during the first and second year:

- 2.500 overall GPA at the end of the 1st Year fall semester
- 2.500 overall GPA at the end of the 1st Year spring semester
- 2.500 overall GPA at the end of the 1st Year summer semester
- 2.500 overall GPA at the end of the 2nd Year fall semester
- 2.400 overall GPA at the end of the 2nd Year spring semester

Students falling below the minimum overall GPAs following the 1st Year fall, spring, and summer semesters, or the 2nd Year fall semester are required to participate in mandatory academic counseling. Students below the minimum overall GPA of 2.400 at the end of the 2nd Year spring semester will be academically dismissed with the right to appeal, provided that the student has not previously been dismissed (academic or otherwise) from the College of Podiatric Medicine.

## Graduation Requirements

A candidate for the degree of Doctor of Podiatric Medicine must have:

- Maintained satisfactory academic performance with no grade below a C or S (satisfactory)
- Demonstrated clinical competence through completion of the performance objectives
- Been verified as being in good disciplinary standing
- Satisfactorily completed all academic requirements, including clinical rotations and externship/clerkship program requirements
- Fulfilled all responsibilities and financial obligations to the college and university
- Demonstrated moral and mental competency to practice podiatric medicine
- Taken and passed the American Podiatric Medical Licensing Examination (APMLE) Part I, and have taken both sections of Part II (written examination and the Clinical Skills Encounter–CSPE examination) and released the score reports to the college
- **Attendance at the graduation ceremony is required.**
- In order to be eligible for graduation in May, candidates must have met all of the above requirements prior to June 30th immediately following the May graduation.
- All students must successfully complete the graduation requirements within six years of their initial matriculation. Exceptions for students



## Roadmap

This roadmap is a recommended semester-by-semester plan of study for this major.

First Year			
Fall Semester			Credits
PCS 80112	CELL AND TISSUE		5
PCS 80113	STAYING ALIVE		5
PCS 80119	HUMAN ANATOMY AND EMBRYOLOGY		8
PCS 80118	MEDICAL GENETICS		2
PMD 80113	MEDICAL ETHICS		1
PMD 80114	PRINCIPLES OF MEDICAL RESEARCH		1
PMD 80117	PODIATRY, PROFESSIONALISM AND SOCIETY I		1
Credit Hours			23
Spring Semester			
PCS 80124	LOWER EXTREMITY ANATOMY		8
PCS 80125		3	
PCS 80126		8	
PCS 80128	MEDICAL MICROBIO/IMMUNOLOGY		6
GMD 80121	PHYSICAL ASSESSMENT AND DIAGNOSIS		3
Credit Hours			28
Summer Term			
ORT 80131	BIOMECHANICS I		3
ORT 80132	REHABILITATIVE MEDICINE		2
PMD 80132	LOW EXTREMITY ASSESSMENT AND DIAGNOSIS		2
PMD 80133	INTRODUCTION MEDICAL IMAGING		1
Credit Hours			8
Second Year			
Fall Semester			
PCS 80218	HUMAN SYSTEMS PATHOLOGY I		8
PCS 80219	PHARMACOLOGY AND THERAPEUTICS I		4
ORT 80211	BIOMECHANICS II		2
PMD 80211	PODIATRIC MEDICINE I		2
PMD 80214	RADIOLOGY AND MEDICAL IMAGING I		2
Second Year Clinical Option			0-1
Credit Hours			18
Spring Semester			
PCS 80228	HUMAN SYSTEMS PATHOLOGY II		8
PCS 80229	PHARMACOLOGY AND THERAPEUTICS II		4
PMD 80217	PODIATRY, PROFESSIONALISM AND SOCIETY II		1
PMD 80221	PODIATRIC MEDICINE II		2
PMD 80222	PODIATRIC MEDICAL SKILLS		2
PMD 80224	RADIOLOGY AND MEDICAL IMAGING II		2
SUR 80221	INTRODUCTION TO PODIATRIC SURGERY		2
Second Year Clinical Option			0-1
Credit Hours			22
Third Year			
Fall Semester			
GMD 80314	NEUROLOGY		2
GMD 80315	DERMATOLOGY		2
GMD 80316	MEDICINE I		4
GMD 80328	WOMEN'S HEALTH		1
PMD 80317	PODIATRY PROF SOCIETY III		1
PMD 80318	PEDIATRICS		2
SUR 80313	PODIATRIC SURGERY		2

Third Year Clinical Options		0-32
Credit Hours		46
Spring Semester		
CMD 80326	PUBLIC HEALTH ADMINISTRATION	3
CMD 80327	HEALTHCARE LAW AND REGULATION	3
GMD 80326	MEDICINE II	4
GMD 80327	BEHAVIORAL MEDICINE	1
ORT 80325	SPORTS MEDICINE	2
SUR 80323	PODIATRIC SURGERY	2
SUR 80325	TRAUMATOLOGY	2
Third Year Clinical Options		0-32
Credit Hours		17
Summer Term		
Third Year Summer Clinical Options		8-12
Credit Hours		8
Fourth Year		
Fall Semester		
Fourth Year Fall Semester Clinical Rotation Options		12-16
Credit Hours		16
Spring Semester		
Fourth Year Spring Semester Clinical Rotation Options		12-16
Credit Hours		16
Summer Term		
PMD 80417	PODIATRY, PROFESSIONALISM AND SOCIETY IV	4
Fourth Year Summer Clinical Options		0-4
Credit Hours		8
Minimum Total Credit Hours:		210

## College of Public Health

### College of Public Health

131 Moulton Hall  
 Kent Campus  
 330-672-6500  
[publichealth@kent.edu](mailto:publichealth@kent.edu)  
[www.kent.edu/publichealth](http://www.kent.edu/publichealth)

### Academic Advising Office:

Moulton Hall  
 330-372-6500  
[www.kent.edu/publichealth/undergraduate-advising](http://www.kent.edu/publichealth/undergraduate-advising)

## Description

The mission of the College of Public Health is to advance public health by preparing leaders, scientists, and practitioners to collaborate with community partners in conducting impactful research and practice to solve public health challenges.

Kent State University's College of Public Health was established in 2009 to educate and prepare students to meet the current and projected shortage of public health professionals in Ohio and the nation. It is one of only two schools of public health in Ohio and the first to offer a Bachelor of Science in Public Health degree. In addition to the bachelor's degree, the college also offers a Master of Public Health, Master of Science in Clinical Epidemiology and a Doctor of Philosophy degree. The academic programs integrate theory and practice to equip graduates with the knowledge and skills to address and solve the health challenges of the

21st century. Faculty engage in innovative research that seeks answers to some of society's most challenging public health issues. Partners include local health departments, community organizations, health care institutions and businesses; those partnerships provide students with applied practical experiences in public health.

## Undergraduate Programs

- Public Health - B.S.P.H.

## Minors

- Environmental Health Sciences
- Health Services Administration
- Public Health

## Graduate Programs

- Clinical Epidemiology - M.S.
- Public Health - M.P.H.
- Public Health - Ph.D.

## Undergraduate Certificates

- Public Health

## College of Public Health Faculty

- Alemagno, Sonia A. (2009), Professor & College Dean, Ph.D., Case Western Reserve University, 1990
- Baird, Heather (2011), Associate Professor, Ph.D., Case Western Reserve University, 2005
- Benzigar, Sasikumar (2011), Assistant Professor, Ed.D., University of Cincinnati, 2014
- Bhargava, Tina D. (2012), Associate Professor, Ph.D., University of Pittsburgh, 2012
- Bhatta, Madhav P. (2009), Professor, Ph.D., University of Alabama, Birmingham, 2007
- Brewer, Thomas W. (2002), Associate Professor, Ph.D., University at Albany, SUNY, 2003
- Chatfield, Sheryl L. (2015), Assistant Professor, Ph.D., University of Mississippi, 2014
- Cheruvu, Vinay K. (2010), Associate Professor, Ph.D., Case Western Reserve University, 2012
- Eng, Abbey L. (2006), Associate Professor, Ph.D., Bowling Green State University, 2007
- Hallam, Jeffrey S. (2013), Professor & Associate Dean, Ph.D., The Ohio State University, 1995
- Hoornbeek, John A. (2006), Associate Professor, Ph.D., University of Pittsburgh, 2004
- Jefferis, Eric S. (2002), Professor, Ph.D., University of Cincinnati, 2004
- Kenne, Deric (2011), Associate Professor, Ph.D., University of Akron, 2010
- Knight, Kristina N. (2015), Assistant Professor, Ph.D., Kent State University, 2014
- Lanese, Bethany G. (2015), Assistant Professor, Ph.D., Wayne State University, 2004
- Laurene, Kimberly R. (2016), Assistant Professor, 2016
- Leahy, Peter J. (2016), Professor, Ph.D., Syracuse University, 1975

- Phillips, Lynette (2010), Associate Professor, Ph.D., University of North Carolina, Chapel Hill, 2007
- Smith, Tara C. (2013), Professor, Ph.D., University of Toledo, 2012
- Stedman-Smith, Maggie M. (2009), Associate Professor, Ph.D., University of Minnesota, Twin Cities, 2008
- Step, Mary M. (2015), Associate Professor, Ph.D., Kent State University, 1998
- Stephens, Margaret C. (2012), Professor, Ph.D., University of Akron, 1999
- Tomi, Laurel A. (2015), Lecturer, B.A., Kent State University, 1986
- VanGeest, Jonathan B. (2011), Professor
- Widuck, Cindy L. (1993), Lecturer, B.S., Kent State University, 1998
- Woolverton, Christopher J. (1995), Professor, Ph.D., West Virginia University, 1986
- Yoder, Janice D. (2015), Professor, Ph.D., State University of New York, Buffalo, 1979
- Zakariasen, Kenneth L. (2012), Professor, Ph.D., University of Minnesota, Twin Cities, 1978
- Zullo, Melissa D. (2009), Associate Professor

## Biostatistics (BST)

### BST 50196 INDIVIDUAL INVESTIGATION IN BIOSTATISTICS 1-3 Credit Hours

(Repeatable for maximum 6 credits) Individual graduate investigation or research in areas related to biostatistics.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Individual Investigation

**Contact Hours:** 1-3 other

**Grade Mode:** Standard Letter-IP

### BST 52019 BIOSTATISTICS IN PUBLIC HEALTH 4 Credit Hours

Provides students with an understanding of basic statistical methods in public health research, as well as the skills to perform and interpret basic statistical procedures. Students learn how to use statistical analysis software to analyze real data from public health-related studies. They then learn how to interpret the analysis and present the results to public health professionals and educated lay audiences. Includes lab component which enhances student awareness and informed usage of SAS for public health analysis. Students learn how to input, read, store, export, and modify data in SAS and be able to use common SAS procedures to analyze public health data and conduct independent SAS programming.

**Prerequisite:** Graduate standing.

**Schedule Type:** Laboratory, Lecture

**Contact Hours:** 3 lecture, 1 lab

**Grade Mode:** Standard Letter

### BST 60191 VARIABLE CONTENT SEMINAR IN BIOSTATISTICS 1-3 Credit Hours

(Repeatable for credit) Seminar on current and important topics in biostatistics. Subject matter varies depending on the topic.

**Prerequisite:** Graduate standing.

**Schedule Type:** Seminar

**Contact Hours:** 1-3 other

**Grade Mode:** Standard Letter

**BST 60192 PRACTICUM EXPERIENCE IN BIOSTATISTICS 3,6 Credit Hours**

Observational and participation in public health activities of a public health agency, hospital or other approved organization. The student completes the field experience with joint supervision from the university and approved organization or agency.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Practical Experience

**Contact Hours:** 9-18 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**BST 60195 SPECIAL TOPICS IN BIOSTATISTICS 1-3 Credit Hours**

(Repeatable for a maximum of 6 credit hours) Special topics to sample new offerings on topics in biostatistics.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 1-3 lecture

**Grade Mode:** Standard Letter

**BST 62020 DATA MANAGEMENT AND LOGIC USING SAS® SOFTWARE 3 Credit Hours**

(Slashed with BST 82020) This course introduces graduate students to SAS® software, reading external data into SAS software, use of SAS data step, basic SAS functions, logical data steps for data management, and different SAS procedures for creating summary reports, graphical displays, and conducting basic statistical analysis using the SAS software. SAS Lab sessions are designed to mimic real time challenges working with different kinds of data and learn how to meet such challenges. By the end of the course, students will achieve competency in proper and efficient use of SAS software.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**BST 63012 SURVIVAL ANALYSIS IN PUBLIC HEALTH 3 Credit Hours**

Introduction in survival analysis for graduate students in public health. Covers survival functions, hazard rates, types of censoring and truncation. Methods of focus include life tables, Kaplan-Meier plots, log-rank tests, Cox regression models and parametric survival models. Inference for recurrent event and competing risks models are also covered.

**Prerequisite:** BST 52019 and 63014; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**BST 63013 EXPERIMENTAL DESIGNS IN PUBLIC HEALTH RESEARCH 3 Credit Hours**

Introduces students to experimental research methods, in public health settings. First introduces a number of quasi-experimental and experimental study designs, then identifies a number of statistical methods that can be used to draw correct causal inferences from the study.

**Prerequisite:** BST 52019 and 63014; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**BST 63014 APPLIED REGRESSION ANALYSIS OF PUBLIC HEALTH DATA 3 Credit Hours**

(Slashed with BST 83014) Focuses on developing student proficiency in building and evaluating various regression models for public health studies. Topics covered include exploratory and descriptive methods, simple and multiple linear regression models, predictor selection, binary and multinomial logistic regression models, survival analysis, repeated measures and generalized linear models.

**Prerequisite:** BST 52019; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**BST 63015 CATEGORICAL DATA ANALYSIS OF PUBLIC HEALTH DATA 3 Credit Hours**

(Slashed with BST 83015) Provides an applied introduction to the most important methods for analyzing categorical data in public health. Topics covered include contingency tables, logistic regression, generalized linear models, modeling matched pairs and clustered responses.

**Prerequisite:** BST 52019 and EPI 52017; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**BST 73011 MULTIVARIATE ANALYSIS IN PUBLIC HEALTH 3 Credit Hours**

Multivariate statistical methods are designed to evaluate more than one variable at a time. An application-oriented introduction to essential multivariate statistical methods used in public health. Topics covered include matrix theory, data screening and preliminary analyses, multivariate normal distributions, multivariate versions of the general linear model (MANOVA, multivariate multiple regression, MANCOVA), discrimination and classification, canonical correlation analysis, and methods of analyzing covariance and correlation structures (principal components and factor analysis). Also introduces and explores methods of handling missing data.

**Prerequisite:** BST 52019; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**BST 82020 DATA MANAGEMENT AND LOGIC USING SAS® SOFTWARE 3 Credit Hours**

(Slashed with BST 62020) This course introduces graduate students to SAS® software, reading external data into SAS software, use of SAS data step, basic SAS functions, logical data steps for data management, and different SAS procedures for creating summary reports, graphical displays, and conducting basic statistical analysis using the SAS software. SAS Lab sessions are designed to mimic real time challenges working with different kinds of data and learn how to meet such challenges. By the end of the course, students will achieve competency in proper and efficient use of SAS software.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**BST 83012 SURVIVAL ANALYSIS IN PUBLIC HEALTH 3 Credit Hours**

Covers survival functions, hazard rates, types of censoring and truncation. Methods of focus include life tables, Kaplan-Meier plots, log-rank tests, Cox regression models and parametric survival models. Inference for recurrent event and competing risks models are also covered.

**Prerequisite:** BST 52019; and BST 63014 or 83014; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**BST 83013 EXPERIMENTAL DESIGNS IN PUBLIC HEALTH RESEARCH 3 Credit Hours**

Designed to introduce students to experimental research methods, in public health settings. First introduces a number of quasi-experimental and experimental study designs, then identifies a number of statistical methods that can be used to draw correct causal inferences from the study. Students are expected to develop two research proposals, first using quasi-experimental then an experimental design and develop a statistical analysis plan for each study.

**Prerequisite:** BST 52019; and BST 63014 or 83014; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**BST 83014 APPLIED REGRESSION ANALYSIS OF PUBLIC HEALTH DATA 3 Credit Hours**

(Slashed with BST 63014) Focuses on developing student proficiency in building and evaluating various regression models for public health studies. Topics covered include exploratory and descriptive methods, simple and multiple linear regression models, predictor selection, binary and multinomial logistic regression models, survival analysis, repeated measures and generalized linear models.

**Prerequisite:** BST 52019; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**BST 83015 CATEGORICAL DATA ANALYSIS OF PUBLIC HEALTH DATA 3 Credit Hours**

(Cross-listed with BST 63015) Provides an applied introduction to the most important methods for analyzing categorical data in public health. Topics covered include contingency tables, logistic regression, generalized linear models, modeling matched pairs, mixed models for categorical data and clustered responses.

**Prerequisite:** BST 52019 and EPI 52017; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Environmental Health Sciences (EHS)****EHS 50060 PUBLIC HEALTH LABORATORY METHODS 3 Credit Hours**

This course introduces the student to the fundamental theory and hands on use to track specimen collection and laboratory analysis.

Environmental specimens will be examined for their public health importance using classical and modern techniques. The student will spend time learning classical laboratory methods and their modern use in the laboratory environment. Examples include culture and microscopic identification of microorganisms, identification of disease vectors, detection of newborn disease and detection of terrorism agents.

**Prerequisite:** PH 30006 or CHEM 10062 or CHEM 10971 or BSCI 30140 or instructor approval.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 2 lecture, 1 lab

**Grade Mode:** Standard Letter

**EHS 50109 LABORATORY SAFETY AND HYGIENE 3 Credit Hours**

(Cross-listed with PH 40109) Basic introduction to laboratory safety, chemical hygiene, and biosafety. Includes the research compliance programs of institutions (IBC, IACUC, IRB, RSC) and the OSHA Chemical Hygiene Standard requirements and program responsibilities. General lab safety concepts are reviewed, along with chemical handling and storage, fumehoods and ventilation, hazardous waste disposal, radiation safety, and lab design. Basic principles of biosafety are covered, BSL 1-4 levels, biosafety cabinets, select agents, bloodborne pathogens, NIH Guidelines, biosecurity and animal use.

**Prerequisite:** Graduate standing.

**Schedule Type:** Field Experience, Lecture

**Contact Hours:** 2.67 lecture, .33 other

**Grade Mode:** Standard Letter

**EHS 50196 INDIVIDUAL INVESTIGATION IN ENVIRONMENTAL HEALTH SCIENCES 1-3 Credit Hours**

(Repeatable for maximum 6 credits) Individual graduate investigation or research in areas related to environmental health sciences.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Individual Investigation

**Contact Hours:** 1-3 other

**Grade Mode:** Standard Letter-IP

**EHS 52018 ENVIRONMENTAL HEALTH CONCEPTS IN PUBLIC HEALTH 3 Credit Hours**

Provides a comprehensive overview of the core topics in environmental health as related to public health.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**EHS 53009 EMERGING ENVIRONMENTAL HEALTH ISSUES AND RESPONSE 3 Credit Hours**

Provides an overview of emerging environmental health issues that will impact the public's health.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**EHS 53012 OCCUPATIONAL SAFETY AND HEALTH 3 Credit Hours**

Survey of major concepts and issues relating health and safety in the workplace. Emphasis is on the application of public health principles and decision-making practices used by various worker populations for the prevention of injury and disease on the job. This course will cover protective equipment, hazardous conditions, environmental toxins, risk assessment, prevention science approaches and workplace health promotion.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**EHS 53014 BUILT ENVIRONMENT AND PUBLIC HEALTH 3 Credit Hours**

The focus of this course is on preventing disease and injury while improving the health of populations by looking "upstream" at the built environment or those settings designed, created, and maintained by human efforts. Public health effects of community design will be explored, including transportation, land use, parks and green space in the context of physical activity, food environments, air and water quality, injury prevention, social capital and health disparities. Components of healthy communities will be explored in the home, workplace, schools, and health care facilities. Students will examine strategies for creating sustainable health places consistent with the ecological model, through multidisciplinary collaboration, research, and policy to promote the health of populations.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**EHS 60191 VARIABLE CONTENT SEMINAR IN ENVIRONMENTAL HEALTH SCIENCES 1-3 Credit Hours**

(Repeatable for a maximum of 6 credit hours) Seminar on current and important topics in environmental health sciences. Subject matter varies depending on the topic.

**Prerequisite:** Graduate standing.

**Schedule Type:** Seminar

**Contact Hours:** 1-3 other

**Grade Mode:** Standard Letter

**EHS 60192 PRACTICUM EXPERIENCE IN ENVIRONMENTAL HEALTH SCIENCES 3,6 Credit Hours**

Observational and participation in public health activities of a public health agency, hospital or other approved organization. Students complete the field experience with joint supervision from the university and approved organization or agency.

**Prerequisite:** Graduate standing and special approval.

**Schedule Type:** Practical Experience

**Contact Hours:** 9-18 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**EHS 60195 SPECIAL TOPICS IN ENVIRONMENTAL HEALTH SCIENCES 1-3 Credit Hours**

(Repeatable for a maximum of 6 credit hours) Special topics to sample new offerings on topics in environmental health sciences.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 1-3 lecture

**Grade Mode:** Standard Letter

**EHS 63010 APPLIED RISK ASSESSMENT 3 Credit Hours**

Introduces the student to environmental and occupational hazards, assessing the risks associated with hazard exposure. Standard principles of risk assessment are emphasized including methods of hazard identification and regulation, quantitative exposure measurement, dose and toxicity relationships and risk management. Analysis of public policy regulatory guidance and health advisory watchdog recommendations are evaluated.

**Prerequisite:** EPI 52017; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**EHS 63011 APPLICATION OF RISK ANALYSIS IN ENVIRONMENTAL HEALTH 3 Credit Hours**

Students are introduced to methods in risk analysis that are applied by U.S. federal, state, and local agencies in their assessment of chemical toxicants. Linkages between risk assessment, risk management, and risk communication will be studied as components of this process, along with issues and controversies in the analysis of environmental health risks.

**Prerequisite:** EPI 52017; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

## Epidemiology (EPI)

**EPI 50015 SCIENTIFIC WRITING FOR CLINICAL RESEARCH 3 Credit Hours**

(Cross-listed with PH 40015) Course provides students the tools to develop proficiency in scientific reading, to conduct presentations and to demonstrate skill in scientific writing, with the goal of preparing clinical researchers to be able to communicate findings to the science community and the general population. Course includes an examination of the science literature in clinical trials research.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**EPI 50017 PHARMACOEPIDEMIOLOGY 3 Credit Hours**

(Cross-listed with PH 40017) Introduction to the field of pharmacoepidemiology, which uses epidemiology methods to understand medication use and distribution at the population level. Course examines risk-benefit and epidemiology approaches to examining medication use and therapeutic trials. Drug and device manufacturing to market are explored.

**Prerequisite:** BST 52019 and EPI 52017; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**EPI 50018 REGULATORY AFFAIRS IN CLINICAL RESEARCH 3 Credit Hours**

(Cross-listed with PH 40018) Course provides the tools for students to develop an understanding of the researcher and organization responsibility in research and development of clinical trials products. Students understand regulations from the government and industry, privacy concerns, liability and ethical issues related to clinical trials research. Examples from the field are explored in detail.

**Prerequisite:** EPI 52017.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter



**EPI 50196 INDIVIDUAL INVESTIGATION IN EPIDEMIOLOGY 1-3 Credit Hours**

(Repeatable for maximum 6 credits) Individual graduate investigation or research in areas related to epidemiology.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Individual Investigation

**Contact Hours:** 1-3 other

**Grade Mode:** Standard Letter-IP

**EPI 52017 FUNDAMENTALS OF PUBLIC HEALTH EPIDEMIOLOGY 3 Credit Hours**

(Slashed with EPI 72017) Introduces principles, methods and application of epidemiology. Covers the history of epidemiology, concepts of disease causation and prevention, measures of disease frequency and excessive risk, epidemiologic study designs, causal inference, outbreak investigation and screening. Provides experience with calculation of rate standardization; measures of disease frequency, association and impact; and sensitivity and specificity of screening tests. Highlights applications of epidemiology to understanding of disease etiology, transmission, pathogenesis and prevention; evaluation and public policy development.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**EPI 52028 METHODS OF EVIDENCE BASED PUBLIC HEALTH 3 Credit Hours**

(Slashed with EPI 72028) Explores tools and techniques used to quantitatively determine the effectiveness of public health interventions in the social sciences.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**EPI 53089 PLAGUES THAT SHAPED THE WORLD 3 Credit Hours**

(Slashed with EPI 73089) (Cross-listed with PH 43089) Course examines the Bubonic plague, HIV/AIDS, Ebola and pandemic influenza outbreaks to introduce students to the fundamentals of public health, establishing epidemiological principles that explain how plagues erupt and propagate, decimate populations and alter cultures. Inherent in the course's discussion are the social determinants that fuel plague outbreaks and slow recovery. Examples of emerging infectious diseases and threats of bioterrorism are discussed as new plagues for which creative solutions are still required. Students take city excursions and a field trip to assess cultural changes resulting from historical plagues.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**EPI 60191 VARIABLE CONTENT SEMINAR IN EPIDEMIOLOGY 1-3 Credit Hours**

(Repeatable for credit) (Slashed with EPI 80191) Seminar on current and important topics in epidemiology. Subject matter varies depending on the topic.

**Prerequisite:** Graduate standing.

**Schedule Type:** Seminar

**Contact Hours:** 1-3 lecture

**Grade Mode:** Standard Letter

**EPI 60192 PRACTICUM EXPERIENCE IN EPIDEMIOLOGY 3,6 Credit Hours**

(Repeatable for credit) Observational and participation in public health activities of a public health agency, hospital or other approved organization. Students complete a field experience with joint supervision from the university and approved organization or agency.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Practical Experience

**Contact Hours:** 3-18 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**EPI 60195 SPECIAL TOPICS IN EPIDEMIOLOGY 1-3 Credit Hours**

(Repeatable for a maximum 6 credit hours) (Slashed with EPI 80195) Special topics to sample new offerings on topics in epidemiology.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 1-3 lecture

**Grade Mode:** Standard Letter

**EPI 63014 EPIDEMIOLOGY OF CHRONIC DISEASES 3 Credit Hours**

(Slashed with EPI 83014) With a life course approach to chronic disease epidemiology, this course focuses on cardiovascular, respiratory, cerebrovascular diseases and cancer. Health and disease are addressed from a multicausal perspective, which includes individual behaviors; psychosocial issues; and sociodemographic, biological and physiological factors. Time points for prevention and intervention are identified.

**Prerequisite:** EPI 52017; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**EPI 63015 EPIDEMIOLOGY OF INFECTIOUS DISEASES 3 Credit Hours**

(Slashed with EPI 83015) Surveys the history, principles, methods and practice of infectious disease epidemiology, by (1) defining and understanding infectious disease epidemiology surveys, (2) collecting and measuring surveillance data, (3) interpreting epidemiology data and (4) predicting evidence-based outcomes. Primarily a course in epidemiology, students learn some infectious disease microbiology as well.

**Prerequisite:** EPI 52017; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**EPI 63016 PRINCIPLES OF EPIDEMIOLOGIC RESEARCH 3 Credit Hours**

(Slashed with EPI 83016) Course builds upon EPI 52017 to explore deeper the concepts and methods in epidemiologic research. Reviews the measures of disease frequency; association and impact; epidemiologic reasoning and causal inference; and methods and techniques for designing, implementing, analyzing and interpreting various epidemiologic study designs. Discusses advantages and limitations of various study designs. Explores threats to validity, precision and generalizability of epidemiologic studies.

**Prerequisite:** BST 52019 and EPI 52017; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**EPI 63017 EPIDEMIOLOGICAL ANALYSIS 3 Credit Hours**

(Slashed with EPI 83017) Provides practical instruction in the analysis and interpretation of data from various epidemiologic study designs, including cross-sectional, case-control and cohort studies. Reviews statistical concepts and epidemiologic studies designs; outlines a strategy for data analysis; and reviews relevant methodologic issues and applies stratified analysis methods and multivariable regression models to the studies. Develops an understanding of the underlying principles and assumptions, practical application and correct interpretation of the epidemiologic results. Provides hands-on experience on the application of epidemiologic analysis methods and presentation of the results.

**Prerequisite:** BST 52019 and BST 63014 and EPI 52017 and EPI 63016; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**EPI 63018 OBSERVATIONAL DESIGNS FOR CLINICAL RESEARCH 3 Credit Hours**

(Slashed with EPI 83018) Course provides students the skills to design, conduct and perform clinical epidemiology studies using an observational design. Students understand major concepts of clinical research, develop clinical research questions, and solve clinical research problems. Topics include study design, risk, causation, exposures, bias, measurement and validity and disease prognosis.

**Prerequisite:** BST 52019 and EPI 52017; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**EPI 63019 EXPERIMENTAL DESIGNS FOR CLINICAL RESEARCH 3 Credit Hours**

(Slashed with EPI 83019) Principles of experimental designs as they apply to clinical research and clinical trials are presented at an intermediate level. Students understand randomized control trial designs and alternative designs. Study methodology, including randomization and blinding techniques, is covered. Topics include evidence-based medicine; risk prediction and risk scores; instruments and measurement; data issues; and recruitment, retention and adherence.

**Prerequisite:** EPI 63018; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**EPI 63020 ADVANCED EPIDEMIOLOGY AND CLINICAL RESEARCH METHODS 3 Credit Hours**

(Slashed with EPI 83020) This advanced course focuses on why particular methods, study designs or approaches are used in particular investigative scenarios in clinical research. Students develop an advanced understanding and application of epidemiology methods in clinical research.

**Prerequisite:** EPI 63018 and EPI 63019; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**EPI 63021 ETHICAL ISSUES IN PUBLIC HEALTH AND CLINICAL RESEARCH 3 Credit Hours**

(Slashed with EPI 83021) Introduces students to historical and contemporary ethical issues that arise during public health and clinical or biomedical research studies. Broadly covers human subjects research, the responsible conduct of research and the good clinical practice guidelines.

**Prerequisite:** EPI 52017; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**EPI 63034 LONGITUDINAL DATA ANALYSIS 3 Credit Hours**

(Slashed with EPI 73034) Statistical techniques for analyzing longitudinal, or repeated measures, data. Focuses primarily on application of the various statistical models covered, with direct application illustrated using standard statistical software. Topics covered include univariate and multivariate analysis of variance for repeated measures, mixed-effects models (HLM or multilevel models), covariance pattern models, generalized estimating equations (GEE), mixed-effects logistic regression models and missing data in longitudinal studies.

**Prerequisite:** BST 52019 and BST 63014; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**EPI 63192 RESEARCH PRACTICUM IN CLINICAL EPIDEMIOLOGY 1-6 Credit Hours**

Research practicum allows students to gain hands-on experience conducting research in a clinical setting, such as a hospital or other approved organization. Students complete the experience under the supervision of a field preceptor and faculty member.

**Prerequisite:** EPI 63018 and EPI 63019; and graduate standing.

**Schedule Type:** Practical Experience

**Contact Hours:** 3-18 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**EPI 63199 THESIS I 2-6 Credit Hours**

Student must register for a total of 6 credit hours in the program. Student may register for 2 to 6 hours in a single semester

**Prerequisite:** Graduate standing.

**Schedule Type:** Masters Thesis

**Contact Hours:** 2-6 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**EPI 63299 THESIS II 2 Credit Hours**

Thesis students must continue registration in Thesis II each semester until all degree requirements are met.

**Prerequisite:** EPI 63199; and graduate standing.

**Schedule Type:** Masters Thesis

**Contact Hours:** 2 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**EPI 72017 FUNDAMENTALS OF PUBLIC HEALTH EPIDEMIOLOGY 3 Credit Hours**

(Slashed with EPI 52017) Introduces principles, methods and application of epidemiology. Covers the history of epidemiology, concepts of disease causation and prevention, measures of disease frequency and excessive risk, epidemiologic study designs, causal inference, outbreak investigation and screening. Provides experience with calculation of rate standardization; measures of disease frequency, association and impact; and sensitivity and specificity of screening tests. Highlights applications of epidemiology to understanding of disease etiology, transmission, pathogenesis and prevention; evaluation and public policy development.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**EPI 72028 METHODS OF EVIDENCE BASED PUBLIC HEALTH 3 Credit Hours**

(Slashed with EPI 52028) Explores tools and techniques used to quantitatively determine the effectiveness of public health interventions in the social sciences.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**EPI 73025 EMERGING ISSUES IN INFECTIOUS DISEASE EPIDEMIOLOGY 3 Credit Hours**

Investigates global emerging and reemerging infectious diseases. Students evaluate root causes of infectious disease emergence and predict outcomes. Data from primary literature is used to predict alternate outcomes. Specific disease models are used to evaluate and compare prevention, treatment and eradication strategies.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**EPI 73026 DESIGN AND IMPLEMENTATION OF HEALTH SURVEYS 3 Credit Hours**

Covers survey design, variable construction, survey administration and data collection methods, variable coding and manipulation and data analysis. Students understand sampling methods and sample size. Large health surveys are discussed. Students gain practical experience through design and implementation of a health survey, which can be used to facilitate dissertation research or a publication.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**EPI 73027 BIOLOGICAL BASIS OF PUBLIC HEALTH 3 Credit Hours**

Integrates the sciences of biology and molecular biology into the principles and practice of public health. Implicit in this course are learning objectives that establish the ecology of infectious disease, the impact of vaccines in disease prevention, and the role of environmental toxins on human health and disease. Additionally, students propose policy, regulations and legislation designed to protect human health within the realm of personalized medicine.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**EPI 73029 PUBLIC HEALTH SURVEILLANCE SYSTEMS 3 Credit Hours**

Introduces students to surveillance systems of both infectious and non-infectious diseases as well as intentional and non-intentional injury. Students are exposed to the theory and practice of surveillance illustrated with examples existing systems from around the world. Culminates in a project where the student creates and evaluates a surveillance system of their own design.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**EPI 73033 ENVIRONMENTAL EPIDEMIOLOGY 3 Credit Hours**

Comprehensive course on concepts in environmental epidemiology and statistical methods in environmental epidemiology, including causal inference models.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**EPI 73034 LONGITUDINAL DATA ANALYSIS 3 Credit Hours**

(Slashed with EPI 63034) Statistical techniques for analyzing longitudinal, or repeated measures, data. Focuses primarily on application of the various statistical models covered, with direct application illustrated using standard statistical software. Topics covered include univariate and multivariate analysis of variance for repeated measures, mixed-effects models (HLM or multilevel models), covariance pattern models, generalized estimating equations (GEE), mixed-effects logistic regression models and missing data in longitudinal studies.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**EPI 73089 PLAGUES THAT SHAPED THE WORLD 3 Credit Hours**

(Slashed with EPI 53089)(Cross-listed with PH 43089) Course examines the Bubonic plague, HIV/AIDS, Ebola and pandemic influenza outbreaks to introduce students to the fundamentals of public health, establishing epidemiological principles that explain how plagues erupt and propagate, decimate populations and alter cultures. Inherent in the course's discussion are the social determinants that fuel plague outbreaks and slow recovery. Examples of emerging infectious diseases and threats of bioterrorism are discussed as new plagues for which creative solutions are still required. Students take city excursions and a field trip to assess cultural changes resulting from historical plagues.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture, 3 lab

**Grade Mode:** Standard Letter

**EPI 80191 VARIABLE CONTENT SEMINAR IN EPIDEMIOLOGY 1-3 Credit Hours**

(Repeatable for a maximum of 6 credit hours) (Slashed with EPI 60191) Seminar on current and important topics in epidemiology. Subject matter varies depending on the topic.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Seminar

**Contact Hours:** 1-3 lecture

**Grade Mode:** Standard Letter

**EPI 80195 SPECIAL TOPICS IN EPIDEMIOLOGY 1-3 Credit Hours**  
(Repeatable for a maximum of 6 credit hours) (Slashed with EPI 60195)  
Special topics to sample new offerings on topics in epidemiology.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 1-3 lecture

**Grade Mode:** Standard Letter

**EPI 80196 INDIVIDUAL INVESTIGATION IN EPIDEMIOLOGY 1-3 Credit Hours**

Individual graduate investigation or research in areas related to epidemiology.

**Prerequisite:** Doctoral Standing; and special approval.

**Schedule Type:** Individual Investigation

**Contact Hours:** 3-9 other

**Grade Mode:** Standard Letter-IP

**EPI 80198 DIRECTED RESEARCH IN EPIDEMIOLOGY 1-15 Credit Hours**

(Repeatable for credit) Directed research or individual investigation in an area of interest and with the guidance of a Kent State faculty member.

**Prerequisite:** Doctoral standing; and special approval.

**Schedule Type:** Individual Investigation, Research

**Contact Hours:** 1-15 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**EPI 80199 DISSERTATION I 15 Credit Hours**

(Repeatable for credit) Registration for two semesters required, first semester dissertation work begins and continues until completion of Dissertation II and 30 hours of total dissertation work.

**Prerequisite:** Doctoral standing; and special approval.

**Schedule Type:** Dissertation

**Contact Hours:** 15 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**EPI 80299 DISSERTATION II 15 Credit Hours**

(Repeatable for credit) Second course of dissertation sequence completing requirement of with 30 total hours of dissertation work.

**Prerequisite:** EPI 80199; and doctoral standing; and special approval.

**Schedule Type:** Dissertation

**Contact Hours:** 15 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**EPI 83014 EPIDEMIOLOGY OF CHRONIC DISEASES 3 Credit Hours**

(Slashed with EPI 63014) With a life course approach to chronic disease epidemiology, this course focuses on cardiovascular, respiratory, cerebrovascular diseases and cancer. Health and disease are addressed from a multicausal perspective, which includes individual behaviors; psychosocial issues; and sociodemographic, biological and physiological factors. Time points for prevention and intervention are identified.

**Prerequisite:** EPI 72017; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**EPI 83015 EPIDEMIOLOGY OF INFECTIOUS DISEASES 3 Credit Hours**

(Slashed with EPI 63015) Surveys the history, principles, methods and practice of infectious disease epidemiology, by (1) defining and understanding infectious disease epidemiology surveys, (2) collecting and measuring surveillance data, (3) interpreting epidemiology data and (4) predicting evidence-based outcomes. Primarily a course in epidemiology, students learn some infectious disease microbiology as well.

**Prerequisite:** EPI 72017; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**EPI 83016 PRINCIPLES OF EPIDEMIOLOGIC RESEARCH 3 Credit Hours**

(Slashed with EPI 63016) Course builds upon EPI 52017 to explore deeper the concepts and methods in epidemiologic research. Reviews the measures of disease frequency; association and impact; epidemiologic reasoning and causal inference; and methods and techniques for designing, implementing, analyzing and interpreting various epidemiologic study designs. Discusses advantages and limitations of various study designs. Explores threats to validity, precision and generalizability of epidemiologic studies.

**Prerequisite:** BST 52019 and EPI 72017; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**EPI 83017 EPIDEMIOLOGICAL ANALYSIS 3 Credit Hours**

(Slashed with EPI 63017) Provides practical instruction in the analysis and interpretation of data from various epidemiologic study designs, including cross-sectional, case-control and cohort studies. Reviews statistical concepts and epidemiologic studies designs; outlines a strategy for data analysis; and reviews relevant methodologic issues and applies stratified analysis methods and multivariable regression models to the studies. Develops an understanding of the underlying principles and assumptions, practical application and correct interpretation of the epidemiologic results. Provides hands-on experience on the application of epidemiologic analysis methods and presentation of the results.

**Prerequisite:** BST 83014 and EPI 63016; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**EPI 83018 OBSERVATIONAL DESIGNS FOR CLINICAL RESEARCH 3 Credit Hours**

(Slashed with EPI 63018) Course provides students the skills to design, conduct and perform clinical epidemiology studies using an observational design. Students understand major concepts of clinical research, develop clinical research questions, and solve clinical research problems. Topics include study design, risk, causation, exposures, bias, measurement and validity and disease prognosis.

**Prerequisite:** BST 52019 and EPI 72017; and doctoral standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**EPI 83019 EXPERIMENTAL DESIGNS FOR CLINICAL RESEARCH 3 Credit Hours**

(Slashed with EPI 63019) Principles of experimental designs as they apply to clinical research and clinical trials are presented at an intermediate level. Students understand randomized control trial designs and alternative designs. Study methodology, including randomization and blinding techniques, is covered. Topics include evidence-based medicine; risk prediction and risk scores; instruments and measurement; data issues; and recruitment, retention and adherence.

**Prerequisite:** BST 52019 and EPI 72017; and doctoral standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**EPI 83020 ADVANCED EPIDEMIOLOGY AND CLINICAL RESEARCH METHODS 3 Credit Hours**

(Slashed with EPI 63020) This advanced course focuses on why particular methods, study designs or approaches are used in particular investigative scenarios in clinical research. Students develop an advanced understanding and application of epidemiology methods in clinical research.

**Prerequisite:** EPI 83018 and EPI 83019; and doctoral standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**EPI 83021 ETHICAL ISSUES IN PUBLIC HEALTH AND CLINICAL RESEARCH 3 Credit Hours**

(Slashed with EPI 63021) Introduces students to historical and contemporary ethical issues that arise during public health and clinical or biomedical research studies. Broadly covers human subjects research, the responsible conduct of research and the good clinical practice guidelines.

**Prerequisite:** EPI 72017; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture, 3 lab

**Grade Mode:** Standard Letter

## Health Policy and Management (HPM)

**HPM 50196 INDIVIDUAL INVESTIGATION IN HEALTH POLICY AND MANAGEMENT 1-3 Credit Hours**

(Repeatable for maximum 6 credits) Individual graduate investigation or research in areas related to health policy and management.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Individual Investigation

**Contact Hours:** 1-3 other

**Grade Mode:** Standard Letter-IP

**HPM 52015 EMERGING ISSUES IN PUBLIC HEALTH POLICY AND MANAGEMENT 3 Credit Hours**

An overview of emerging issues in the field of public health.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HPM 52016 PUBLIC HEALTH ADMINISTRATION 3 Credit Hours**

Public health administration comprises efforts to improve the health of communities. Provides an overview for public health administration and practice, including organization, law, legislative relations, financing, workforce issues, leadership and surveillance.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HPM 52017 HEALTHCARE LAW AND REGULATION 3 Credit Hours**

Healthcare is one of the most heavily regulated industries in the United States. In order to contain spiraling costs, the federal and state governments are focusing on individual provider conduct in the context of fraud, waste, and abuse scrutiny. This course covers the underlying theories behind healthcare law and regulation as well as specific provisions affecting the organization, delivery, and payment of primary health services. Administrators and clinicians will gain a basic understanding of the regulatory environment and provisions impacting their practice.

**Prerequisite:** HPM 52016; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HPM 53003 HEALTH CARE SYSTEMS 3 Credit Hours**

Provides a systems approach to delivering health care and public health services in the US. Includes an overview of public health, outpatient, inpatient, managed care, long term care and health services for special populations.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HPM 53004 PUBLIC HEALTH POLICY, LAW AND ETHICS 3 Credit Hours**

Provides a comprehensive review of health policymaking, public health law and ethical principles as applied to public health decision making.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HPM 53005 FINANCIAL MANAGEMENT FOR PUBLIC HEALTH ORGANIZATIONS 3 Credit Hours**

Provides an overview of financial management of public health organizations. Topics include planning for public health program budgeting, understanding costs and short and long term financing, accountability and control, reporting results and financial statement and financial conditions analysis.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter



**HPM 53006 COST BENEFIT ANALYSIS IN PUBLIC HEALTH PROGRAMS 3 Credit Hours**

Provides an overview of cost-benefit analysis as applied to the evaluation of public health programs. Students apply principles of cost benefit analysis and related cost utility analysis to case studies in the public health sector.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HPM 53007 PUBLIC HEALTH PROGRAMS: PLANNING, IMPLEMENTATION AND EVALUATION 3 Credit Hours**

Overview of developing, implementing and evaluating public health programs. Examines how public health programs can target different levels within a population, different determinants of health and strategies and interventions.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HPM 53008 FOUNDATIONS FOR EFFECTIVE PUBLIC HEALTH LEADERSHIP 3 Credit Hours**

Intended to provide students with an initial exploration of the leadership practices of public health leaders with an understanding of the basic skill set necessary for successful leadership on a continuing basis.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HPM 53009 WHOLE SYSTEMS APPROACHES TO LEADING ORGANIZATIONAL CHANGE IN PUBLIC HEALTH 3 Credit Hours**

Intended to provide students with an initial exploration and overview of whole systems approaches to organizational change in public health settings, a more detailed working knowledge of key whole systems methodologies, and a detailed working knowledge and practical experience with one of the most frequently used and favored whole systems approaches.

**Prerequisite:** Graduate standing.

**Pre/corequisite:** HPM 53008.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HPM 53010 COMMUNITY HEALTH NEEDS ASSESSMENT 3 Credit Hours**

This course covers concepts and methods relevant to community health needs assessment, such as systems thinking, the use of quantitative and qualitative methods, primary and secondary data, and the role of community assessment in current national policy, including the Affordable Care Act and on community health improvement. Students will draw from multiple disciplines to assess health status and its determinants (social, behavioral, and environmental), needs for health services, and the capacity and resources of the local community. Students will also learn to facilitate and evaluate the use of data for decision-making by partnerships, organizations and policy makers.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HPM 53011 PUBLIC HEALTH EVALUATION METHODS 3 Credit Hours**

This course provides an in-depth review of major concepts, methods, and issues involved in evaluating public health programs and policy interventions. Students learn skills needed to conduct and use evaluations, with an emphasis on conceptual, methodological, organizational, political, and ethical aspects associated with public health evaluation. Topics will include development of evaluation questions, types of program evaluation (process, formative, impact, outcome), evaluation design (experimental, quasiexperimental, and nonexperimental designs), collection of evaluation data, and dissemination of evaluation results. Students gain practical experience through a series of exercises. Examples of effective methods and approaches will be elaborated for multiple public health contexts.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HPM 53012 OBAMACARE AND NATIONAL HEALTH REFORM 3 Credit Hours**

This course provides an overview of health reform in the United States, starting with the history of health reform, the passage of the ACA, and the future of health reform. It includes political and policy discourse leading up to the Patient Protection and Affordable Care Act (ACA) its passage, analysis of the law's impact, Supreme Court rulings and other legal challenges affecting the legislation, and the future of public health and health care in the context of health reform. The impact of health reform on health care financing, quality, and public health will also be covered. Students will draw upon and apply an interdisciplinary literature base to analyze health reform.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HPM 53013 SEX: A WICKED PUBLIC HEALTH PROBLEM 3 Credit Hours**

Wicked problems is a term developed in the 1970s by systems thinkers and planners, Horst Rittel and Melvin Webber (1973), to describe complex social problems that are resistant to solution. The term has recently been applied to public health issues that have proven to be difficult to address and resistant to mitigation. Sexual and reproductive health behaviors, attitudes, and cultural norms often produce problems at the individual and population levels that meet the criteria for designation as wicked problems. Effectively addressing these kinds of problems requires a correct understanding and application of public health principles and practices.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HPM 60191 VARIABLE CONTENT SEMINAR IN HEALTH POLICY AND MANAGEMENT 1-3 Credit Hours**

(Repeatable for a maximum of 6 credit hours) (Slashed with HPM 80191) Seminar on current and important topics in health policy and management. Subject matter varies depending on the topic.

**Prerequisite:** Graduate standing.

**Schedule Type:** Seminar

**Contact Hours:** 1-3 lecture

**Grade Mode:** Standard Letter

**HPM 60192 PRACTICUM EXPERIENCE IN HEALTH POLICY AND MANAGEMENT 3,6 Credit Hours**

Observational and participation in public health activities of a public health agency, hospital or other approved organization. The student completes the field experience with joint supervision from the university and approved organization or agency.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Practical Experience

**Contact Hours:** 9-18 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**HPM 60195 SPECIAL TOPICS IN HEALTH POLICY AND MANAGEMENT 1-3 Credit Hours**

(Repeatable for a maximum of 6 credit hours) (Slashed with HPM 80195)

Special topics to sample new offerings on topics in health policy and management.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 1-3 lecture

**Grade Mode:** Standard Letter

**HPM 64002 GLOBAL HEALTH IMMERSION: GENEVA, SWITZERLAND 3 Credit Hours**

(Slashed with HPM 84002) Participants explore a number of health concerns, policies and challenges with global importance and implications. Students investigate current global health policies and themes, and become familiar with the major players in global health including governmental and nongovernmental organizations and multinational agencies. Presentations are given by experts currently working in various regions of the world to solve such pressing global problems as HIV/AIDS, postwar trauma, tuberculosis, refugee health, non-communicable disease prevention and environmental contamination.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HPM 72015 EMERGING ISSUES IN PUBLIC HEALTH POLICY AND MANAGEMENT 3 Credit Hours**

(Slashed with HPM 52015) An overview of emerging challenges in public health policy and management. Examples include pandemic H1N1 response, bio preparedness, national health care reform, public health financing challenges, global tuberculosis drug resistance.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HPM 72030 GRANT WRITING IN PUBLIC HEALTH 3 Credit Hours**

Doctoral students should take this course at the end of the program of study. Students in this doctoral level course for Public Health learn the basics of grant writing for federal (NIH) and non-federal funding agencies with a particular emphasis on the components required of most grant proposal submitted for funding. This includes rationale for seeking funds, collaborations with community organizations, and working with consultants and subcontractors. Participants also learn about the basic sections of grant writing such as specific aims and hypotheses, developing your literature review, background and significance, research design and methodology, developing a budget, and conducting research with human subjects. Participants have the opportunity to write sample grant proposals, learn about the review and scoring process and post-award grant management.

**Prerequisite:** Doctoral standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HPM 73021 HEALTH CARE FINANCE 3 Credit Hours**

Covers the financial environment of health services in the US, including accounting principles, financial statement analysis, delivery models, management control processes of budgeting and capital project analysis, managerial accounting, program development and financial plan.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HPM 73022 STRATEGIC MANAGEMENT OF PUBLIC HEALTH ORGANIZATIONS 3 Credit Hours**

Covers basic and advanced principles of strategic management of public health organizations including service area analysis, internal environment analysis, developing and evaluating strategic alternatives and quality indicators.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HPM 73031 PUBLIC HEALTH POLICY ANALYSIS 3 Credit Hours**

Provides a framework for conducting public health policy analysis. Applies concepts to case studies of health policies at the local, state and Federal levels.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HPM 80191 VARIABLE CONTENT SEMINAR IN HEALTH POLICY AND MANAGEMENT 1-3 Credit Hours**

(Repeatable for a maximum of 6 credit hours) (Slashed with HPM 60191)

Seminar on current and important topics in health policy and management. Subject matter varies depending on the topic.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Seminar

**Contact Hours:** 1-3 lecture

**Grade Mode:** Standard Letter

**HPM 80195 SPECIAL TOPICS IN HEALTH POLICY AND MANAGEMENT 1-3 Credit Hours**

(Repeatable for a maximum of 6 credit hours) (Slashed with HPM 60191) Special topics to sample new offerings on topics in health policy and management.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 1-3 lecture

**Grade Mode:** Standard Letter

**HPM 80196 INDIVIDUAL INVESTIGATION IN HEALTH POLICY AND MANAGEMENT 1-3 Credit Hours**

Individual graduate investigation or research in areas related to health policy and management.

**Prerequisite:** Doctoral standing; and special approval.

**Schedule Type:** Individual Investigation

**Contact Hours:** 3-9 other

**Grade Mode:** Standard Letter-IP

**HPM 80198 DIRECTED RESEARCH IN HEALTH POLICY AND MANAGEMENT 1-15 Credit Hours**

(Repeatable for credit) Directed research or individual investigation for doctoral students in the Health Policy and Management concentration.

**Prerequisite:** Doctoral standing; and special approval.

**Schedule Type:** Research

**Contact Hours:** 1-15 other

**Grade Mode:** Standard Letter

**HPM 80199 DISSERTATION I 15 Credit Hours**

(Repeatable for credit) Registration for two semesters required, first semester dissertation work begins and continues until completion of Dissertation II and 30 hours of total dissertation work.

**Prerequisite:** Doctoral standing; and special approval.

**Schedule Type:** Dissertation

**Contact Hours:** 15 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**HPM 80299 DISSERTATION II 15 Credit Hours**

(Repeatable for credit) Registration for two semesters required, first semester dissertation work begins and continues until completion of 30 hours.

**Prerequisite:** HPM 80199; and doctoral standing; and special approval.

**Schedule Type:** Dissertation

**Contact Hours:** 15 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**HPM 81000 PUBLIC HEALTH LAW AND REGULATION 3 Credit Hours**

Enables participants to describe, apply, and explain key aspects and principles of law, regulation, and policy relating to public health issues and topics. Requires students to master the content material for the course, and apply it to particular (a) topics or issues relating public health. Students also are required to design and or conduct a research project and explain their hypotheses, methods, findings and or conclusions.

**Prerequisite:** HPM 52016; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**HPM 84002 GLOBAL HEALTH IMMERSION: GENEVA, SWITZERLAND 3 Credit Hours**

(Slashed with HPM 64002) Participants explore a number of health concerns, policies and challenges with global importance and implications. Students investigate current global health policies and themes, and become familiar with the major players in global health including governmental and nongovernmental organizations and multinational agencies. Presentations are given by experts currently working in various regions of the world to solve such pressing global problems as HIV/AIDS, postwar trauma, tuberculosis, refugee health, noncommunicable disease prevention and environmental contamination.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

## Public Health (PH)

**PH 10000 EXPLORING CAREERS IN PUBLIC HEALTH 1 Credit Hour**

Provides an overview of the diverse career opportunities available in the field. Explores various public health issues from the perspectives of public health professionals from the core disciplines in public health: social behavioral sciences, environmental health, health policy and management, epidemiology and biostatistics. Students learn about how public health professionals approach issues and the types of professional roles and activities they bring to addressing each issue.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 1 lecture

**Grade Mode:** Standard Letter

**PH 10001 INTRODUCTION TO PUBLIC HEALTH 3 Credit Hours**

An overview of the evolution and practices of the dynamic field of public health in the United States and globally. Students are introduced to the structure and functions of public health organizations and public health practice.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PH 10002 INTRODUCTION TO GLOBAL HEALTH (DIVG) 3 Credit Hours**

An overview of the biological, social and environmental contributors to health and diseases in populations around the world, including case studies of selected infectious diseases, nutritional deficiencies and health effects of environmental change.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Diversity Global

**PH 10003 EXPLORING CAREERS IN GLOBAL HEALTH 1 Credit Hour**

Course provides students with an introduction to global health and an overview of the diverse career opportunities available in the field. The global health sector is evolving as one of the primary career destinations and is moving beyond the traditional roles of science, pharmacy, medicine and nursing; additional areas also include communications, technology, data scientists, finance, management, legal, linguistics, international relations, and most important, cross functional skills are needed.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 15 lecture, 0 lab, 0 other

**Grade Mode:** Standard Letter

**PH 10195 SPECIAL TOPICS IN PUBLIC HEALTH 1-3 Credit Hours**

(Repeatable for credit) Subject varies depending on the emerging issue.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 1-3 lecture

**Grade Mode:** Standard Letter

**PH 20000 PUBLIC HEALTH PROFESSIONAL PRACTICE I 1 Credit Hour**

Professional development course designed to expose future public health leaders to the diverse field of public health and develop attainable career goals. Student will begin the development of personal goals and a portfolio of work that will build during the entire program. The understanding of public health as a profession will be fostered.

**Prerequisite:** Sophomore standing.

**Schedule Type:** Lecture

**Contact Hours:** 1 lecture

**Grade Mode:** Standard Letter

**PH 20001 ESSENTIALS OF EPIDEMIOLOGY 3 Credit Hours**

Students are introduced to the strategies adopted by public health professionals to study distribution and identification of important biologic, social and environmental determinants of diseases and health-related states in specific populations.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PH 20010 INTRODUCTION TO PUBLIC HEALTH INFORMATICS 3 Credit Hours**

Provides an overview of informatics principles applied in public health settings. Issues addressed include definitions, approaches, competencies, applications and the national health information network. Topical areas are digital literacy, electronic communication, system development, information use, project management, procurement, accountability, research, data standards, databases, human resource management, and confidentiality and security.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PH 20015 ZOMBIE OUTBREAK 3 Credit Hours**

Teaches the basic survival skills necessary to protect you, your family, and the public from a variety of natural and manmade "apocalypses". Students apply the basics of emergency Public Health management to a zombie outbreak.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PH 20195 SPECIAL TOPICS IN PUBLIC HEALTH 1-3 Credit Hours**

(Repeatable for credit) Subject varies depending on the emerging issue.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 1-3 lecture

**Grade Mode:** Standard Letter

**PH 20392 COMMUNITY HEALTH WORKER CERTIFICATION II- INTERNSHIP (ELR) 3 Credit Hours**

Internship course providing necessary contact hours for the Ohio Community Health Worker Certification.

**Prerequisite:** PH 23000.

**Schedule Type:** Practical Experience

**Contact Hours:** 9 other

**Grade Mode:** Standard Letter-IP

**Attributes:** Experiential Learning Requirement

**PH 22001 PLAGUES AND PANDEMICS: HOW INFECTION SHAPED CULTURE AND HISTORY 3 Credit Hours**

Infectious diseases continue to affect us all in the present, and plagues have shaped the course of history. From the Justinian plague in the 6th Century to the decimation of Native populations in the US by smallpox to the 1918 influenza pandemic, human history has been influenced by microbes—and our culture, in turn, can affect the generation of new plagues. This course is appropriate both for humanities majors looking for an introduction to infectious diseases as well as science majors looking to better understand infectious diseases in their historical and cultural context, and the way these diseases have (and continue to) shape history. Ultimately, students should be able to understand the basics of infectious disease epidemiology and disease control within a wide cultural and historical context. The course will encompass various topics in microbiology and infectious disease, using primarily popular non-fiction books on these subjects as sources.

**Prerequisite:** None.

**Schedule Type:** Lecture, Seminar

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PH 23000 COMMUNITY HEALTH WORKER CERTIFICATION I 3 Credit Hours**

Students will be guided through the competencies of a Community Health Worker (CHW). Students will be introduced to soft skills and culture including but not limited to basic health care, community resources, advocacy, communication and service skills related to working with communities. Lifespan development will also be covered including but not limited to: Basic health information and education regarding prevention and treatment throughout the lifespan. Prerequisite: None

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PH 30000 PUBLIC HEALTH PROFESSIONAL PRACTICE II 1 Credit Hour**

Professional development course designed to further prepare future public health leaders to the diverse field of public health. The career portfolio will be further developed. Career goals will be re-evaluated and the strategies for goal attainment reassessed. The understanding of public health as a profession will be further developed. Graduate or professional education as an option will be discussed in greater detail.

**Prerequisite:** PH 20000; and junior standing.

**Schedule Type:** Lecture

**Contact Hours:** 1 lecture

**Grade Mode:** Standard Letter



**PH 30002 INTRODUCTORY BIOSTATISTICS 3 Credit Hours**

An introduction to statistical methodology in the field of public health. Students learn the statistical skills to read scientific articles, understand the statistical methods used and interpret the results on their own.

**Prerequisite:** Any kent core mathematics; and critical reasoning course.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PH 30004 PUBLIC HEALTH RESEARCH 3 Credit Hours**

Approaches involved in defining public health problems and steps involved in conducting research about these problems. Students are introduced to how to evaluate published public health research.

**Prerequisite:** PH 30002; and ENG 21011 or HONR 10297.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PH 30005 SOCIAL AND BEHAVIORAL SCIENCE THEORIES IN PUBLIC HEALTH 3 Credit Hours**

An overview of the contributions of the social and behavioral sciences to human health behavior, including application of studies in the area of health promotion, health protection and disease prevention in public health.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PH 30006 INTRODUCTION TO ENVIRONMENTAL HEALTH AND SAFETY 3 Credit Hours**

Introduction: the environment at risk; environmental epidemiology, environmental toxicology, environmental policy and regulation, watershed management, safe drinking water, wastewater management, vector-borne and zoonotic disease, air quality, solid and hazardous waste, food protection, radiation safety and injury prevention, occupational health and safety, total worker health, the built environment.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PH 30007 PREVENTION AND CONTROL OF DISEASES 3 Credit Hours**

Provides an overview of concepts involved in biological mechanisms of disease at cell, individual and community levels, provides insight into strategies used in preventing and controlling diseases at the population and/or community level within this framework.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PH 30009 ENVIRONMENTAL HEALTH AND SAFETY REGULATIONS AND POLICY 3 Credit Hours**

Develops a framework for understanding the regulatory structure of environmental and occupational health and safety regulations and policy in the U.S. Federal, state, and local levels of government are reviewed as well as major agencies and regulations.

**Prerequisite:** PH 30006.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PH 30012 COMMUNICABLE DISEASES 3 Credit Hours**

A survey of communicable diseases of global public health significance, including the epidemiology and forensics associated with disease transmission, vaccination strategies and practices, and human responses to infectious disease. Students are introduced to infectious disease pathogens and the practices and procedures for their surveillance, handling and control.

**Prerequisite:** PH 20001 and 30007.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PH 30014 STRATEGIES FOR PREVENTION IN PUBLIC HEALTH 3 Credit Hours**

Provides a review of population strategies for health promotion and disease prevention from a social-ecological perspective, highlighting the importance of evidence-based, equitable, and ethical approaches.

**Prerequisite:** PH 30007.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PH 30015 UNITED STATES HEALTH CARE SYSTEM 3 Credit Hours**

Provides an overview of the U.S. healthcare delivery system, including operations, stakeholders and the role of government with a particular emphasis on public health's role in health care. Students gain an understanding of inpatient and outpatient services, the various roles of healthcare professionals, private and public financing and the impact of managed care. The primary focus is the public health system.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PH 30020 FUNDAMENTALS OF HEALTH PRIVACY 1 Credit Hour**

This course will provide an overview of compliance in healthcare privacy and security within the context of the Health Insurance Portability and Accountability Act (HIPAA). Current topics such as electronic health records and the challenges posed by social media will be explored.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 1 lecture

**Grade Mode:** Standard Letter

**PH 30025 FUNDAMENTALS OF HEALTHCARE COMPLIANCE 1 Credit Hour**

This course will provide an overview of fraud, waste, and abuse compliance in the healthcare industry. The practical and legal basis for compliance programs will be explored as well as their creation, implementation, and maintenance.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 1 lecture

**Grade Mode:** Standard Letter

**PH 30033 PUBLIC HEALTH POLICY AND DECISION-MAKING 3 Credit Hours**

An introductory survey of the formulation to implementation of public health policies for various public health issues, and the use of practical administrative tools such as strategic planning, use of economic evaluation tools and decision analysis.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter



**PH 30040 PUBLIC HEALTH LABORATORY SAFETY, SECURITY AND EMERGENCY PREPAREDNESS 3 Credit Hours**

Safe operations within the public health laboratory require specific knowledge and skills sets. Upon completion of this course, the student will (1) understand the public health laboratory infrastructure; (2) work safely and responsibly with equipment and reagents to investigate laboratory-based public health problems; (3) define the laws, policies and guidance documents related to public health laboratory activities; and (4) respond to simulated laboratory safety and security emergencies.

**Prerequisite:** PH 30006 and 30012.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 1 lecture, 2 lab

**Grade Mode:** Standard Letter

**PH 30101 SOLID AND HAZARDOUS WASTE MANAGEMENT 3 Credit Hours**

Solid and hazardous waste programs and practices are explored. Pollution prevention, safety, sanitation practices, sustainability concepts, management, and regulations pertinent to solid and hazardous waste such as RCRA, are discussed and studied. Consumption, garbage handling, landfill design and disposal, sustainability concepts, reuse, recycling, composting and other waste strategies are presented. Hazardous waste and materials issues in the environment are introduced; such as HW disposal, TSD Facilities, underground storage tanks, "Superfund", brownfields and related issues.

**Prerequisite:** PH 30006.

**Schedule Type:** Field Experience, Lecture

**Contact Hours:** 2.67 lecture, .33 other

**Grade Mode:** Standard Letter

**PH 30102 AIR QUALITY AND POLLUTION CONTROL 3 Credit Hours**

Basic survey of air pollution and its control. The respiratory system and the bodies response to air pollutants of different types is reviewed and related illnesses such as asthma are studied. The Clean Air Act, NESHAPS and related regulations are surveyed. Ambient air quality standards, the effect of climate and other air pollution concepts are reviewed. Measurement and control methods for both particulate and gaseous contaminants are surveyed.

**Prerequisite:** PH 30006.

**Schedule Type:** Field Experience, Lecture

**Contact Hours:** 2.67 lecture, .33 other

**Grade Mode:** Standard Letter

**PH 30103 FOOD PROTECTION 3 Credit Hours**

Topics in foodborne disease prevention and food sanitation relative to quality control, food service and processing systems are introduced. Foodborne disease agents, microbiology, epidemiology and outbreak investigation techniques are explored. The regulatory process and agencies at the wholesale, retail and food service levels are introduced. Ohio food regulations are covered, including the Ohio Uniform Food Code. Basic preparation of students to conduct food serve inspections and foodborne disease investigations as part of agency regulatory programs. The opportunity to earn the National Restaurant Association, ServSafe Manager Certification is also provided.

**Prerequisite:** PH 30006.

**Schedule Type:** Field Experience, Lecture

**Contact Hours:** 2.67 lecture, .33 other

**Grade Mode:** Standard Letter

**PH 30105 WATER AND WASTEWATER MANAGEMENT 3 Credit Hours**

Explores the issues surrounding water pollution and human health, and the environmental treatment systems developed to provide safe water and sewage disposal. Private water and sewage systems and public water and sewage systems are studied. Federal and State regulations, including the Safe Drinking Water Act and Clean Water Act are reviewed. Field experiences are included.

**Prerequisite:** PH 30006.

**Schedule Type:** Field Experience, Lecture

**Contact Hours:** 2.67 lecture, .33 other

**Grade Mode:** Standard Letter

**PH 30106 ENVIRONMENTAL TOXICOLOGY 3 Credit Hours**

Basic toxicological principles applied to studies of environmental health are surveyed. Basic concepts of toxicological testing, dose response, animal and other models, dose curves, LD50's, risk assessment, threshold theories, classifications of harmful effects, environmental pathways, metabolism and elimination are reviewed. Biological effects and the effect of select toxins on body systems are reviewed. Major groups of toxins and their effects are reviewed. Toxin behavior in air, water, wastewater, soil and environmental media are studied.

**Prerequisite:** PH 30006.

**Schedule Type:** Laboratory, Lecture

**Contact Hours:** 2.8 lecture, .2 lab

**Grade Mode:** Standard Letter

**PH 30110 HAZARDOUS MATERIALS MANAGEMENT 3 Credit Hours**

Covers the use of hazardous materials. Emphasis is on the safe management of hazardous materials in the workplace and community, their procurement, storage, regulation, pollution problems, use, release, clean up, disposal, and their control, to prevent workplace and community health and safety problems.

**Prerequisite:** PH 30006.

**Schedule Type:** Field Experience, Lecture

**Contact Hours:** 2.67 lecture, .33 lab

**Grade Mode:** Standard Letter

**PH 30195 SPECIAL TOPICS IN PUBLIC HEALTH 1-3 Credit Hours**

(Repeatable for credit) Subject varies depending on the emerging issue.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 1-3 lecture

**Grade Mode:** Standard Letter

**PH 31005 SOCIAL DETERMINANTS OF HEALTH AND HEALTH BEHAVIOR 3 Credit Hours**

Provides students with an overview of the social determinants of health behaviors and health outcomes. Students examine the relationships among the root causes of health disparities (education, income, inequality, race-ethnicity, social status-class, and gender) and more proximal causes of these disparities (e.g., access to and quality of medical care, work conditions, lifestyles, living conditions, social capital). These relationships are examined within ecological and multi-level theoretical frameworks.

**Prerequisite:** PH 30005.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PH 32005 EMERGING ISSUES IN COMMUNITY HEALTH 3 Credit Hours**

Provides students with exposure to touchstone issues in public health programming that have social and behavioral science implications. Topics reflect emergent priority areas and are expected to vary from semester to semester. Examples of current, emerging issues that may be covered include the Healthy People 2020 initiative, leading health indicators, role of CDC, state and local health departments and NGOs in promoting health behaviors, program recruitment, retention, evaluation and generalization challenges, ethical issues including informed consent and voluntary change, funding challenges for prevention programs, grant writing exposure, role of politics in public health programming, evidenced-based practices and practice-based evidence.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PH 34001 PUBLIC HEALTH INTERVENTIONS I 3 Credit Hours**

Provides an overview of the planning and development of public health interventions including environmental, social, and behavioral public health issues from a social-ecological perspective, with attention to evidence-based, theoretical, and ethical approaches.

**Prerequisite:** PH 30005.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PH 34002 PUBLIC HEALTH INTERVENTIONS II 3 Credit Hours**

Provides an overview of public health intervention implementation, evaluation, and sustainability, with examples of public health interventions in practice and exploration into the future of public health interventions.

**Prerequisite:** PH 34001.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PH 35001 COMMUNITY-BASED PUBLIC HEALTH PRACTICE (ELR) 3 Credit Hours**

Course focuses on the fundamentals of applying community engagement, organization, and development principles to create successful community public health interventions. Addresses work in at-risk and diverse communities using methods optimal for public health practice, including public health ethics, faith-based initiatives in community health, community health assessment and measurement methods, coalition building, and frameworks for developing health policy. Will also review the basic principles of health-related non-profit organization management and support. Prerequisite: PH 30005

**Schedule Type:** Lecture, Practical Experience

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Experiential Learning Requirement

**PH 35005 ADVOCACY AND ACTIVISM IN PUBLIC HEALTH 3 Credit Hours**

Public health advocacy and activism are areas of increasing importance for those in public health at both national and international levels because they offer more direct approaches to achieve lasting social and political change. This course provides a foundation to the theory, evidence-base and strategies that can be harnessed to bring about change to improve the lives and health of populations, and explains how activism has an essential role in public health policy and practice.

**Prerequisite:** Junior or senior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PH 40000 PUBLIC HEALTH PROFESSIONAL PRACTICE III 1 Credit Hour**

Professional development course designed to launch graduates into the workforce or graduate school. The career portfolio, resume, and cover letters will be finalized. Interviewing and application skills will be developed. Working with a College of Public Health career counselor students will develop job search strategies and begin the application process. Students continuing their education in a graduate program will work on application materials.

**Prerequisite:** PH 30000; and senior standing.

**Schedule Type:** Lecture

**Contact Hours:** 1 lecture

**Grade Mode:** Standard Letter

**PH 40013 CLINICAL EPIDEMIOLOGY BASICS 3 Credit Hours**

The purpose of this course is to develop an understanding of clinical research, Good Clinical Practices, research environments, and methods used in clinical research. The student will gain an understanding of the use of clinical investigation from the product development stage to the application of investigations in contract research organization. Ethical implications and regulatory issues will be examined.

**Prerequisite:** PH 20001.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PH 40014 CLINICAL TRIALS MANAGEMENT 3 Credit Hours**

Course examines the good clinical practices guidelines. Students learn how to conduct and manage clinical trials; understand clinical trials data; develop instruments and protocols; recognize quality control and data issues; know approaches to recruitment, retention and participant assessment; identify adverse events and measurement of response variables; and acquire skill in study close-out procedures.

**Prerequisite:** PH 40013.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PH 40015 SCIENTIFIC WRITING FOR CLINICAL RESEARCH 3 Credit Hours**

(Cross-listed with EPI 50015) Course provides students the tools to develop proficiency in scientific reading, to conduct presentations and to demonstrate skill in scientific writing, with the goal of preparing clinical researchers to be able to communicate findings to the science community and the general population. Course includes an examination of the science literature in clinical trials research.

**Prerequisite:** ENG 21011 or HONR 10297.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PH 40017 PHARMACOEPIDEMIOLOGY 3 Credit Hours**

(Cross-listed with EPI 50017) Introduction to the field of pharmacoepidemiology, which uses epidemiology methods to understand medication use and distribution at the population level. Course examines risk-benefit and epidemiology approaches to examining medication use and therapeutic trials. Drug and device manufacturing to market are explored.

**Prerequisite:** PH 40013 and PH 40014.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PH 40018 REGULATORY AFFAIRS IN CLINICAL RESEARCH 3 Credit Hours**

(Cross-listed with EPI 50018) Course provides the tools for students to develop an understanding of the researcher and organization responsibility in research and development of clinical trials products. Students understand regulations from the government and industry, privacy concerns, liability and ethical issues related to clinical trials research. Examples from the field are explored in detail.

**Prerequisite:** PH 40013 and PH 40014.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PH 40020 DISASTER PREPAREDNESS 3 Credit Hours**

College-level version of the FEMA "Are You Ready?" training designed to prepare average citizens to respond to emergency situations. Students learn how to appropriately prepare for and respond to natural and contrived emergencies, such as floods, tornados, fires, terrorism, etc. Students prepare an emergency response kit for home use, using materials from home or store, and learn how to shelter-in-place.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PH 40040 FORENSIC EPIDEMIOLOGY 3 Credit Hours**

Introduction to the principles and practices of investigative epidemiology. Inherent to the course is the understanding of how public health law impacts data collection and representation. Students learn the roles and responsibilities of the criminal justice, public health, and first responder communities as they relate to the investigation of public health crimes. Additionally, students use real case studies to apply knowledge in the investigation of mock public health crimes.

**Prerequisite:** Special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PH 40050 PUBLIC HEALTH AND FIRST RESPONDER LINKAGES 3 Credit Hours**

Capstone experience meant to unite students of public health with their professional partners. Students interact in the classroom and at the partners' place of business to link theory and practice, gain real-world knowledge and cement partnerships.

**Prerequisite:** PH 40040; and special approval.

**Schedule Type:** Field Experience, Lecture

**Contact Hours:** 1 lecture, 2 other

**Grade Mode:** Standard Letter

**PH 40060 PUBLIC HEALTH LABORATORY METHODS 3 Credit Hours**

This course introduces the student to the fundamental theory and hands on use to track specimen collection and laboratory analysis. Environmental specimens will be examined for their public health importance using classical and modern techniques. The student will spend time learning classical laboratory methods and their modern use in the laboratory environment. Examples include culture and microscopic identification of microorganisms, identification of disease vectors, detection of newborn disease and detection of terrorism agents.

**Prerequisite:** PH 30006 or CHEM 10062 or CHEM 10971 or BSCI 30140 or instructor approval.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 2 lecture, 1 lab

**Grade Mode:** Standard Letter

**PH 40092 INTERNATIONAL HEALTH PRACTICUM (ELR) 3-6 Credit Hours**

(Repeatable for credit) A supervised internship in global/international health.

**Prerequisite:** PH 10002; and junior or senior standing.

**Schedule Type:** Practical Experience

**Contact Hours:** 10-20 other

**Grade Mode:** Satisfactory/Unsatisfactory

**Attributes:** Experiential Learning Requirement

**PH 40100 VECTOR-BORNE AND ZOO NOTIC DISEASES 3 Credit Hours**

Presents a broad overview of major considerations related to human health and the vector-borne diseases transmitted by rodents and arthropods (insects and arachnids). Control measures, including rodent control, local mosquito control programs, and integrated pest management (IPM) concepts with safe pesticide use are reviewed. Application of FIFRA regulations are presented. An overview of issues associated with zoonotic diseases transmitted by animals, such as rabies, and their control are also included. Vector and reservoir relationships are explored.

**Prerequisite:** PH 30006.

**Schedule Type:** Field Experience, Lecture

**Contact Hours:** 2.67 lecture, .33 other

**Grade Mode:** Standard Letter

**PH 40101 OCCUPATIONAL HEALTH AND SAFETY 3 Credit Hours**

Introduction to workplace safety and industrial hygiene. The OSHA regulations and procedures are reviewed and workplace safety and health principles studied. Students learn how to anticipate, recognize, evaluate and control workplace hazards. Safety issues are surveyed; such as confined space, electrical LOTO, trenching, fall protection, walking and working surfaces. Industrial hygiene issues are surveyed; such as air contaminants, hazard communication, respiratory protection, ergonomics, noise control and bloodborne pathogens. Control measures for workplace hazards are discussed.

**Prerequisite:** PH 30006.

**Schedule Type:** Field Experience, Lecture

**Contact Hours:** 2.67 lecture, .33 other

**Grade Mode:** Standard Letter

**PH 40109 LABORATORY SAFETY AND HYGIENE 3 Credit Hours**

(Crosslisted with EHS 50109) Basic introduction to laboratory safety, chemical hygiene, and biosafety. Includes the research compliance programs of institutions (IBC, IACUC, IRB, RSC) and the OSHA Chemical Hygiene Standard requirements and program responsibilities. General lab safety concepts are reviewed, along with chemical handling and storage, fumehoods and ventilation, hazardous waste disposal, radiation safety, and lab design. Basic principles of biosafety are covered, BSL 1-4 levels, biosafety cabinets, select agents, bloodborne pathogens, NIH Guidelines, biosecurity and animal use.

**Prerequisite:** PH 30006.

**Schedule Type:** Field Experience, Lecture

**Contact Hours:** 2.67 lecture, .33 other

**Grade Mode:** Standard Letter

**PH 40112 INSTITUTIONAL AND RECREATIONAL ENVIRONMENTAL, OCCUPATIONAL HEALTH AND SAFETY 3 Credit Hours**

Introduces the environmental and occupational health and safety issues unique to institutional settings and licensed facilities; such as, hospitals, nursing homes, K-12 schools, universities, R&D, correctional facilities, and childcare facilities; and in various recreational environments, such as swimming pools, spas, bathing beaches, marinas, campgrounds, playgrounds and natural areas.

**Prerequisite:** PH 30006.

**Schedule Type:** Field Experience, Lecture

**Contact Hours:** 2.67 lecture, .33 other

**Grade Mode:** Standard Letter

**PH 40191 SEMINAR IN PUBLIC HEALTH 1-3 Credit Hours**

(Repeatable for credit) Seminar on current and important topics in public health. Subject matter varies depending on topic.

**Prerequisite:** None.

**Schedule Type:** Seminar

**Contact Hours:** 1-3 other

**Grade Mode:** Standard Letter

**PH 40195 SPECIAL TOPICS IN PUBLIC HEALTH 1-3 Credit Hours**

(Repeatable for credit) Subject varies depending on the emerging issue.

**Prerequisite:** Junior or senior standing.

**Schedule Type:** Lecture

**Contact Hours:** 1-3 lecture

**Grade Mode:** Standard Letter

**PH 40196 INDIVIDUAL INVESTIGATION IN PUBLIC HEALTH 1-3 Credit Hours**

(Repeatable for maximum 6 credits) Individual undergraduate investigation or research on specific public health issues.

**Prerequisite:** Junior or senior standing; and special approval.

**Schedule Type:** Individual Investigation

**Contact Hours:** 1-3 other

**Grade Mode:** Standard Letter

**PH 40200 THE BUILT ENVIRONMENT 3 Credit Hours**

Provides a basic understanding of the relationships between poor housing and environmental health and safety problems. It explores the physiological and psychological aspects of shelter. Students gain a basic understanding of housing codes, fire codes, zoning, and related regulatory issues. Students explore housing related health problems; such as, indoor air quality, mold, asbestos, lead paint, and radon. Manufactured housing parks and agricultural labor camp regulations are also reviewed. The role of EH in community planning is explored. Health issues with urban sprawl and community design problems, utility problems such as urban run-off and pest problems, and other issues are reviewed. Elements of healthy community, community planning and environmental protection are introduced; such as new urbanism, walkable communities programs, environmental building design, green communities, urban gardening and LEED's.

**Prerequisite:** PH 30006.

**Schedule Type:** Field Experience, Lecture

**Contact Hours:** 2.67 lecture, .33 other

**Grade Mode:** Standard Letter

**PH 41000 ENVIRONMENTAL AND OCCUPATIONAL HEALTH AND SAFETY MANAGEMENT 3 Credit Hours**

Entails leadership and management principles in environmental and occupational health and safety (EOHS), and helps students develop skills needed to become an effective supervisor. Issues such as regulatory structure, program and community planning, policy development, budgeting, staffing and staff development, strategic planning, training, professionalism and assessment are reviewed. Board development, dealing with difficult people and situations, legal, social, political, and economic effects on EOHS programs are dealt with. Related issues such as ethics, human resources, workers comp, court appearances, media relations and communications are reviewed.

**Prerequisite:** PH 30006 and 30102 and 30105 and 30106; and senior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PH 41092 FIELD EXPERIENCE IN MEETING THE BASIC HEALTH AND HUMAN NEEDS (ELR) 3 Credit Hours**

(Repeatable for credit) Provides practical skills in simple, affordable appropriate technologies that can offer solutions for meeting basic health and human needs in the developing world at the household and community levels. Technologies are organized into five modules: 1) food, agriculture, and nutrition; 2) water and sanitation; 3) alternative household energy; 4) primary health care; and 5) community development needs and resource assessment. All five modules cover appropriate technologies that while meeting the basic needs have significant impact on health of the individuals and communities. Principles of participatory community development and sensitivity to cross-cultural, gender, and ecological issues are emphasized throughout the training.

**Prerequisite:** Special approval.

**Schedule Type:** Field Experience

**Contact Hours:** 8 other

**Grade Mode:** Satisfactory/Unsatisfactory

**Attributes:** Experiential Learning Requirement

**PH 42092 ENVIRONMENTAL, OCCUPATIONAL, HEALTH AND SAFETY INTERNSHIP (ELR) 4-6 Credit Hours**

The purpose of the environmental and occupational health and safety internship is to supplement the student in-class learning experiences with practical hand-on skills and work practice experiences that helps them develop the environmental competencies required for success in the field.

**Prerequisite:** Junior or senior standing; and special approval.

**Schedule Type:** Practical Experience

**Contact Hours:** 13.33-20 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**Attributes:** Experiential Learning Requirement

**PH 43014 PUBLIC HEALTH AND MASS INCARCERATION 3 Credit Hours**

This course will examine incarceration using a public health lens. Students will examine the epidemiology of mass incarceration in the U.S., infectious and chronic diseases of those incarcerated, incarceration as a self-sustaining epidemic with generations of imprisonment, access to health care of those behind bars and on release, and the contagion of punishment including collateral damage to children, families and neighborhoods. The course will conclude with a public health model for ending mass incarceration.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PH 43089 PLAGUES THAT SHAPED THE WORLD 3 Credit Hours**

(Cross-listed with EPI 53089 and and EPI 73089) Course examines the Bubonic plague, HIV/AIDS, Ebola and pandemic influenza outbreaks to introduce students to the fundamentals of public health, establishing epidemiological principles that explain how plagues erupt and propagate, decimate populations and alter cultures. Inherent in the course's discussion are the social determinants that fuel plague outbreaks and slow recovery. Examples of emerging infectious diseases and threats of bioterrorism are discussed as new plagues for which creative solutions are still required. Students take city excursions and a field trip to assess cultural changes resulting from historical plagues.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PH 43092 INTERNSHIP IN CLINICAL TRIALS RESEARCH (ELR) 3-6 Credit Hours**

The internship will place students in a clinical trials setting (e.g., contract research organization, hospital, or academic setting) where they can gain hands on experience conducting clinical trials and clinical research. The internship is 300 hours and can be taken in the last one to two semesters. The purpose of the internship is to provide the student with practical experiences that will make them marketable for a position in clinical research upon graduation.

**Prerequisite:** PH 40013 and PH 40014.

**Schedule Type:** Practical Experience

**Contact Hours:** 3-6 other

**Grade Mode:** Satisfactory/Unsatisfactory

**Attributes:** Experiential Learning Requirement

**PH 44000 HEALTH DISPARITIES (DIVD) (WIC) 3 Credit Hours**

Understanding the factors involved in health disparities at the national and global level, and the impact of health disparities on public health.

**Prerequisite:** ENG 21011 or HONR 10297; and 21 credit hours of public health courses; and junior or senior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Diversity Domestic, Writing Intensive Course

**PH 44002 GLOBAL HEALTH IMMERSION: GENEVA, SWITZERLAND 3 Credit Hours**

Participants explore a number of health concerns, policies and challenges with global importance and implications. Students investigate current global health policies and themes, and become familiar with the major players in global health including governmental and nongovernmental organizations and multinational agencies. Presentations are given by experts currently working in various regions of the world to solve such pressing global problems as HIV/AIDS, post-war trauma, tuberculosis, refugee health, non-communicable disease prevention and environmental contamination.

**Prerequisite:** PH 10001 and PH 10002; and junior or senior standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PH 44003 ENVIRONMENTAL HEALTH ISSUES IN LOW- AND MIDDLE-INCOME COUNTRIES 3 Credit Hours**

Covers the important environmental health issues of concerns in low- and middle-income countries and appropriate intervention strategies. Topics include clean drinking water and sanitation, indoor air pollution, outdoor air pollution, environmental management, sustainability and health.

**Prerequisite:** Public health or anthropology major; and junior or senior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PH 44004 GLOBAL HEALTH IMMERSION: LATIN AMERICA 3 Credit Hours**

The principal objective of this summer intersession course is to immerse students into the history, culture and public health systems of Latin American countries Colombia Ecuador. Students will have the opportunity to visit major cities, i.e., Cali, Colombia, and Quito, Ecuador, rural areas, and well-known tourist destinations (Cartagena, Colombia, Otavalo, Ecuador). Students will gain an understanding of current scientific research on tropical diseases of local public health relevance, such as malaria. The course will focus on the basic biology of disease, mechanisms of transmission (epidemiology), and efforts to develop vaccines against malaria. The course is designed primarily for sophomores, juniors and seniors who are public health, nursing, or biological science majors. Master's level students will also be accepted. Knowledge of basic Spanish language is useful but not necessary.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter



**PH 44005 LEGAL ASPECTS OF HEALTH SERVICES MANAGEMENT 3 Credit Hours**

Provides an overview of legal and regulatory essentials in health services management. Provides a historical perspective on legal aspects of health care as well as an introduction to law, tort law, criminal aspects, contracts, civil procedure and trial practice as related to health care. Students examine how liability impacts corporate structures, health departments and health care professionals and examine issues related to patient consent, legal reporting requirements, labor relations and patient rights.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PH 44010 PUBLIC HEALTH PLANNING AND FINANCE 3 Credit Hours**

Introduces students to business planning of health services. Students obtain skills in public health financial decision-making, including general principles of public health accounting, budgeting and financial planning.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PH 44015 PUBLIC HEALTH MANAGEMENT 3 Credit Hours**

Provides an overview of management and leadership concepts, principles and practice as applied to public health management. Students learn basic skills in team-building, developing board relationships, strategic planning, fiscal management, marketing, conflict resolution and negotiation in healthcare management. Coursework integrates principles of ethics and professionalism, effective communication, managing complex and culturally diverse workplaces and the changing role of public health managers.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PH 44020 PUBLIC HEALTH ETHICS IN PRACTICE, POLICY AND RESEARCH 3 Credit Hours**

Provides an introduction to public health ethics, including the key foundations, concepts and frameworks for evaluating ethical issues in the public health setting.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PH 44025 PRINCIPLES OF PUBLIC HEALTH LEADERSHIP 3 Credit Hours**

Designed to introduce students to skill-sets and leadership practices necessary for successful public health leadership, with an emphasis on leading positive and sustainable change in real world situations. It also familiarizes students with key aspects of partnership building and advocacy for the purposes of improving health. Particular skills include coalition/partnership development, health advocacy, team building, mentoring and leadership.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**PH 44092 INTERNSHIP IN PUBLIC HEALTH (ELR) 3-6 Credit Hours**

(Repeatable for credit) Capstone internship experience in a public health setting under the supervision of a site preceptor and university supervisor. Students gain experience in public health work.

**Prerequisite:** Senior standing; and special approval.

**Schedule Type:** Practical Experience

**Contact Hours:** 3-6 other

**Grade Mode:** Satisfactory/Unsatisfactory

**Attributes:** Experiential Learning Requirement

**PH 45092 SERVICE LEARNING PRACTICUM IN COMMUNITY-BASED PUBLIC HEALTH (ELR) 3 Credit Hours**

This course is designed to provide an opportunity for students to engage in a variety of public health settings under the supervision of faculty.

The practicum experience is focused on developing skills needed to implement change to improve population health, providing a setting in which students may integrate and apply the skills and knowledge acquired through their coursework. Students will be exposed to some of the benefits and challenges encountered by public health professionals on a routine basis.

**Prerequisite:** Junior or senior standing.

**Corequisite:** PH 35001.

**Schedule Type:** Lecture, Practical Experience

**Contact Hours:** 1 lecture, 6 other

**Grade Mode:** Standard Letter

**Attributes:** Experiential Learning Requirement

**PH 49000 CAPSTONE EXPERIENCE IN PUBLIC HEALTH (ELR) 3 Credit Hours**

Case studies of various strategies used in addressing various public health issues are discussed within an evaluative framework.

**Prerequisite:** 21 credit hours of public health courses; and junior or senior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Experiential Learning Requirement

**PH 60172 PRACTICUM SEMINAR IN PUBLIC HEALTH 1 Credit Hour**

(Repeatable 6 times for credit) Seminar component of the Practicum Experience; course must be taken at the same time as the Practicum Experience; students prepare a final portfolio and seminar presentation integrating theory and practice.

**Prerequisite:** Graduate standing.

**Corequisite:** PH 60192.

**Schedule Type:** Lecture

**Contact Hours:** 1 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**PH 60192 PRACTICUM EXPERIENCE 5 Credit Hours**

(Repeatable for credit) Observational and participation in public health activities of a public health agency, hospital or other approved organization. The student completes the field experience with joint supervision from the university and approved organization or agency.

**Prerequisite:** Graduate standing.

**Corequisite:** PH 60172.

**Schedule Type:** Practical Experience

**Contact Hours:** 20 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**PH 80199 DISSERTATION I 15 Credit Hours**

(Repeatable for credit) Registration for two semesters required, first semester dissertation work begins and continues until completion of 30 hours.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Dissertation

**Contact Hours:** 15 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**PH 80299 DISSERTATION II 15 Credit Hours**

(Repeatable for credit) Continuing registration required of doctoral students who have completed the initial 30 hours of dissertation and continuing until degree requirements are met.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Dissertation

**Contact Hours:** 15 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

## Social and Behavioral Sciences (SBS)

**SBS 50002 QUANTITATIVE METHODS IN SOCIAL AND BEHAVIORAL SCIENCES 3 Credit Hours**

Introduces basic quantitative methods used in social and behavioral scientific research. First we focus on the measurement of socio-behavioral phenomena and the relationship between measurement and statistics. Next, we examine the interrelated roles of scientific theory and the design of socio-behavioral research studies. Last, we focus on building appropriate multiple linear regression and or analysis of variance statistical models to provide valid analysis of data collected in socio-behavioral research.

**Prerequisite:** BST 52019; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SBS 50020 SOCIAL AND BEHAVIORAL SCIENCE THEORIES 3 Credit Hours**

Examines fundamental social and behavioral science theoretical frameworks that explain health behaviors with an emphasis on application through universal prevention approaches to inform both research and program evaluation designs.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SBS 50030 SEMINAR IN SOCIAL AND BEHAVIOR SCIENCES 3 Credit Hours**

Explores case studies in the social and behavioral sciences on topics that address the leading health indicators including substance use (alcohol, tobacco and other drugs), obesity (physical activity and nutrition), HIV and STIs, mental health, injury, immunization and access to health care, and social determinants of health.

**Prerequisite:** Graduate standing.

**Schedule Type:** Seminar

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**SBS 50196 INDIVIDUAL INVESTIGATION IN SOCIAL AND BEHAVIORAL SCIENCES 1-3 Credit Hours**

(Repeatable for credit) Individual graduate investigation or research in areas related to social and behavioral sciences.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Individual Investigation

**Contact Hours:** 1-3 other

**Grade Mode:** Standard Letter-IP

**SBS 53008 GRANT WRITING IN SOCIAL AND BEHAVIORAL SCIENCES 3 Credit Hours**

Students learn the basics of grant writing for federal and non-federal funding agencies with a particular emphasis on the components of most proposals for funding. This includes rationale for seeking funds, collaborations with community organizations, and working with consultants and subcontractors. Participants also learn about the basic sections of grant writing such as specific aims and hypotheses, developing a literature review, background and significance, research design and methodology, developing a budget and conducting research with human subjects. Participants have an opportunity to write sample grant proposals, learn about the review and scoring process and post-award grant management.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SBS 54634 SOCIAL DETERMINANTS OF HEALTH BEHAVIORS 3 Credit Hours**

Overviews the social determinants of health and the dynamic interplay between individual behaviors and community structures (systems orientation) including public policy, social and built environments, commercial messages, access to services, cultural norms, psychosocial hazards, and poverty both as causal effects that either provide opportunity or constraints to health. Also examines systems approaches to preventing public health threats from issues including substance use (alcohol, tobacco and other drugs), physical inactivity, poor dietary practices, unsafe sexual behaviors, violence and injury, and mental health.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SBS 54700 COMMUNITY-BASED SUBSTANCE ABUSE PREVENTION FOR PUBLIC HEALTH PROFESSIONALS 3 Credit Hours**

This course focuses on prevention science and its application to prevention implementation. It is the first of a series of curricula courses we plan to offer on drug abuse prevention; these courses will add to the elective courses for master's level students in the College of Public Health. This course will be the "core" of this series—that is, students will be required to complete this course before they take another course in the series. The core course (Community –Based Substance Abuse Prevention) provides foundational knowledge for substance abuse prevention. The other courses in the series focus on prevention in specific contexts (e.g., school-based, workplace, media based, etc.). The course will enhance the knowledge and skills of public health professionals to enable them to implement evidence-based substance use prevention interventions and policies. Primary emphasis is on evidence-based interventions and policies and on implementation quality and sustainability.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SBS 54701 COMMUNITY-BASED PUBLIC HEALTH IMPLEMENTATION SYSTEMS 3 Credit Hours**

This course focuses on Public Health prevention science and its application to the implementation of substance use interventions. The content focuses on community systems for addressing substance use problems that affect whole communities. These community systems incorporate evidence-based prevention interventions at various levels of influence within a socio-ecological perspective. Students will examine the development of community organizations that come together to address specific problems, and how they network and integrate with existing organizations that provide community services. The content draws from the International Standards on Drug Use Prevention that were published by the United Nations Office on Drugs and Crime (2013; 2015) and the European Drug Prevention Quality Standards published by the European Monitoring Centre on Drugs and Drug Addiction (2011). Primary emphasis is on evidence-based interventions and policies and on implementation quality and sustainability.

**Prerequisite:** SBS 54700; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SBS 60020 PROGRAM EVALUATION II: APPLICATION IN THE REAL WORLD 3 Credit Hours**

This course provides students with a more in-depth examination of program evaluation for Public Health professionals and the opportunity to apply their evaluation knowledge and skills to an existing health intervention. The content will delve deeply into formative and summative evaluation—including theoretical underpinnings, professional standards, research design and data collection and analysis. Students will be required to apply this knowledge to a selected program and produce an evaluation proposal acceptable for submission to a funding agency.

**Prerequisite:** HPM 53011; and graduate standing.

**Schedule Type:** Seminar

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SBS 60030 CODING FOR QUALITATIVE RESEARCH 1 Credit Hour**

(Slashed with SBS 80030) The purpose of this course is to provide students with a brief but thorough overview of the basic process of coding text-based, unstructured data for qualitative research projects. Focus is on coding for descriptive or basic qualitative research.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 15 lecture

**Grade Mode:** Standard Letter

**SBS 60040 TRANSCRIBING INDIVIDUAL AND GROUP INTERVIEWS FOR QUALITATIVE RESEARCH 1 Credit Hour**

(Slashed with SBS 80040) The purpose of this course is to provide students an overview of, and applied practice in transcribing audio-recorded interview data as preparation for qualitative analysis techniques.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 15 lecture

**Grade Mode:** Standard Letter

**SBS 60191 VARIABLE CONTENT SEMINAR IN SOCIAL AND BEHAVIORAL SCIENCES 1-3 Credit Hours**

(Repeatable for a maximum of 6 credit hours) Seminar on current and important topics in social and behavioral sciences. Subject matter varies depending on the topic.

**Prerequisite:** Graduate standing.

**Schedule Type:** Seminar

**Contact Hours:** 1-3 lecture

**Grade Mode:** Standard Letter

**SBS 60192 PRACTICUM EXPERIENCE IN SOCIAL AND BEHAVIORAL SCIENCES 3,6 Credit Hours**

Observational and participation in public health activities of a public health agency, hospital or other approved organization. The student completes the field experience with joint supervision from the university and approved organization or agency.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Practical Experience

**Contact Hours:** 9-18 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**SBS 60195 SPECIAL TOPICS IN SOCIAL AND BEHAVIORAL SCIENCES 1-3 Credit Hours**

(Repeatable for a maximum of 6 credit hours) Special topics to sample new offerings on topics in social and behavioral sciences.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 1-3 lecture

**Grade Mode:** Standard Letter

**SBS 63010 QUALITATIVE METHODS FOR PUBLIC HEALTH RESEARCH 3 Credit Hours**

(Slashed with 83010) In this course, students will be guided through exploration of the uses and value of qualitative approaches to research with humans through a combination of resource review and guided applied practice. Students will be provided with information about various methodologies that comprise qualitative inquiry, and will engage in practice efforts to analyze provided data, and to assess the quality of research reports.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SBS 63011 QUALITATIVE DATA ANALYSIS 3 Credit Hours**

(Slashed with SBS 83011) Students will be introduced to the process and goals of qualitative data analysis relevant to research design and study purpose, and will be provided opportunities to conduct coding and other types of analysis of qualitative data using both computer assisted and manual processes. Students will focus on descriptive or generic approaches for both qualitative and mixed methods research. Students will additionally learn about and be provided opportunities for guided practice in quality control measures that include creation of an audit trail, 'member checking,' composition of analytic memos, and other forms of researcher initiated documentation.

**Prerequisite:** SBS 63010 or special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SBS 73018 THEORIES OF PREVENTION SCIENCE I 3 Credit Hours**

Provides a background and theoretical review of prevention science as a multi-disciplinary field focusing on systematic inquiry on health behaviors including substance use (alcohol, tobacco and other drugs), physical activity, dietary practices, mental health, violence and injury, and sexual behaviors.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SBS 73019 THEORY PREVENTION SCIENCE II 3 Credit Hours**

This course examines the methods used by prevention science researchers to determine the effectiveness of public health programs. Focus is on advanced formative, process, impact and outcome evaluation methods. Qualitative and quantitative analysis techniques used for assessing program process and effects are discussed in the context of research evaluation.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SBS 73020 ADVANCED METHODS IN PREVENTION SCIENCE 3 Credit Hours**

Focuses primarily on advanced quantitative methods in the application of prevention science.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SBS 80020 PROGRAM EVALUATION II: APPLICATION IN THE REAL WORLD 3 Credit Hours**

This course provides students with a more in-depth examination of program evaluation for Public Health professionals and the opportunity to apply their evaluation knowledge and skills to an existing health intervention. The content will delve deeply into formative and summative evaluation—including theoretical underpinnings, professional standards, measurement, research design and data collection and analysis. Students will be required to apply this knowledge to a selected program and produce an evaluation proposal acceptable for submission to a funding agency.

**Prerequisite:** HPM 53011.

**Schedule Type:** Seminar

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SBS 80030 CODING FOR QUALITATIVE RESEARCH 1 Credit Hour**

(Slashed with SBS 60030) The purpose of this course is to provide students with a brief but thorough overview of the basic process of coding text-based, unstructured data for qualitative research projects. Focus is on coding for descriptive or basic qualitative research; other methodologies are reviewed based on student needs.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 15 lecture

**Grade Mode:** Standard Letter

**SBS 80040 TRANSCRIBING INDIVIDUAL AND GROUP INTERVIEWS FOR QUALITATIVE RESEARCH 1 Credit Hour**

(Slashed with SBS 60040) The purpose of this course is to provide students an overview of, and applied practice in transcribing audio-recorded interview data as preparation for qualitative analysis techniques, using both content-focused and conversation-analytic approaches.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 15 lecture

**Grade Mode:** Standard Letter

**SBS 80100 EMERGING ISSUES IN PREVENTION SCIENCE 3 Credit Hours**

Survey of relevant challenges and issues facing prevention science researchers.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SBS 80191 VARIABLE CONTENT SEMINAR IN SOCIAL AND BEHAVIORAL SCIENCES 1-3 Credit Hours**

(Repeatable for a maximum of 6 credit hours) Seminar on current and important topics in social and behavioral sciences. Subject matter varies depending on the topic.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Seminar

**Contact Hours:** 1-3 lecture

**Grade Mode:** Standard Letter

**SBS 80195 SPECIAL TOPICS IN SOCIAL AND BEHAVIORAL SCIENCES 1-3 Credit Hours**

(Repeatable for a maximum of 6 credit hours) Special topics to sample new offerings on topics in social and behavioral sciences.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 1-3 lecture

**Grade Mode:** Standard Letter

**SBS 80196 INDIVIDUAL INVESTIGATION IN SOCIAL AND BEHAVIORAL SCIENCES 1-3 Credit Hours**

Individual graduate investigation or research in areas related to social and behavioral sciences.

**Prerequisite:** Doctoral standing; and special approval.

**Schedule Type:** Individual Investigation

**Contact Hours:** 3-9 other

**Grade Mode:** Standard Letter-IP

**SBS 80198 DIRECTED RESEARCH IN PREVENTION SCIENCE 1-15****Credit Hours**

(Repeatable for credit) Directed research or individual investigation for doctoral students.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Research

**Contact Hours:** 1-15 other

**Grade Mode:** Standard Letter

**SBS 80199 DISSERTATION I 15 Credit Hours**

(Repeatable for credit) Registration for two semesters required, first semester dissertation work begins and continues until completion of Dissertation II and 30 hours of total dissertation work.

**Prerequisite:** Doctoral standing; and special approval.

**Schedule Type:** Dissertation

**Contact Hours:** 15 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**SBS 80299 DISSERTATION II 15 Credit Hours**

(Repeatable for credit) Second course of dissertation sequence completing requirement of with 30 total hours of dissertation work.

**Prerequisite:** SBS 80199; and special approval.

**Schedule Type:** Dissertation

**Contact Hours:** 15 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**SBS 83010 QUALITATIVE METHODS FOR PUBLIC HEALTH RESEARCH 3 Credit Hours**

(Slashed with SBS 63010) In this course, students will be guided through exploration of the uses and value of qualitative approaches to research with humans through a combination of resource review and applied practice. Students will be provided with information about various methodologies that comprise qualitative inquiry, and will engage in practice efforts to gather, process, and analyze data, and to assess the quality of research reports.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**SBS 83011 QUALITATIVE DATA ANALYSIS 3 Credit Hours**

(Slashed with SBS 63011) Students will be introduced to the process and goals of qualitative data analysis relevant to research design and study purpose, and will be provided opportunities to conduct coding and other types of analysis of qualitative data using both computer assisted and manual processes. Qualitative approaches potentially considered in this course include grounded theory, phenomenology, descriptive or generic approaches, content analysis, mixed methods, and others depending on needs and interests of students in the class. Students will additionally learn about and practice quality control measures that include creation of an audit trail, 'member checking,' composition of analytic memos, and other forms of researcher initiated documentation.

**Prerequisite:** SBS 83010 or special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

## Clinical Epidemiology - M.S.

**College of Public Health**

131 Moulton Hall

Kent Campus

330-672-6500

publichealth@kent.edu

[www.kent.edu/publichealth](http://www.kent.edu/publichealth)

## Description

The Master of Science degree in Clinical Epidemiology is a STEM-designated advanced degree that prepares students in the epidemiological and biostatistical methods related to clinical trials and clinical research. Students will learn advanced methods of observational and experimental study designs and be able to understand disease prevention, development, prognosis and treatment. In addition, students will master and be able to apply good clinical practices, clinical trial design and management, statistical analysis, study monitoring, pharmaceutical research and regulations related to clinical research.

### Fully Offered At:

- Online
- Hybrid (online/on-ground)
- Kent Campus

## Accreditation

The M.S. degree in Clinical Epidemiology is accredited by the Council on Education for Public Health (CEPH).

## Admission Requirements

- Bachelor's degree from an accredited college or university for unconditional admission
- Minimum 3.0 undergraduate GPA on a 4.000 point scale for unconditional admission
- Official transcript(s)
- GRE scores or other standardized graduate admission exam (GMAT, MCAT, LSAT, PCAT)<sup>1</sup>
- Goal statement
- Three letters of recommendation
- English Language Proficiency - all international students must provide proof of English language proficiency (unless they meet specific exceptions) by earning one of the following:
  - Minimum 550 TOEFL PBT score - paper-based version
  - Minimum 79 TOEFL IBT - Internet-based version
  - Minimum 77 MELAB score
  - Minimum 6.5 IELTS score
  - Minimum 58 PTE score

Applicants to the program who have limited clinical or science backgrounds may be advised to take additional coursework to prepare them for the field. Determinations will be made by the admissions committee when the student is admitted conditionally to the program.

For more information about graduate admissions, please visit the Graduate Studies admission website. For more information on international admission, visit the Office of Global Education's admission website.

<sup>1</sup> GRE scores may be waived, as determined by graduate coordinator using program criteria. Contact the graduate coordinator for more information.



## Program Learning Outcomes

Graduates of this program will be able to:

1. Conduct patient-oriented research to understand and modify health outcomes
2. Design and carryout epidemiologic studies
3. Analyze clinical data and understand the sources, strengths and limitations of patient data
4. Design and perform clinical trials
5. Interact with human subjects and describe prognosis, therapies and outcomes

## Program Requirements

### Major Requirements

Code	Title	Credit Hours
<b>Major Requirements</b>		
BST 52019	BIOSTATISTICS IN PUBLIC HEALTH	4
BST 63013	EXPERIMENTAL DESIGNS IN PUBLIC HEALTH RESEARCH	3
BST 63014	APPLIED REGRESSION ANALYSIS OF PUBLIC HEALTH DATA	3
EPI 52017	FUNDAMENTALS OF PUBLIC HEALTH EPIDEMIOLOGY	3
EPI 63016 or EPI 63018	PRINCIPLES OF EPIDEMIOLOGIC RESEARCH OBSERVATIONAL DESIGNS FOR CLINICAL RESEARCH	3
EPI 63019	EXPERIMENTAL DESIGNS FOR CLINICAL RESEARCH	3
EPI 63020	ADVANCED EPIDEMIOLOGY AND CLINICAL RESEARCH METHODS	3
EPI 63021 or PHIL 50005	ETHICAL ISSUES IN PUBLIC HEALTH AND CLINICAL RESEARCH HEALTH CARE ETHICS	3
Major Electives, choose from the following:		5-6
BST 62020	DATA MANAGEMENT AND LOGIC USING SAS® SOFTWARE	
EPI 50015	SCIENTIFIC WRITING FOR CLINICAL RESEARCH	
EPI 50017	PHARMACOEPIDEMIOLOGY	
EPI 50018	REGULATORY AFFAIRS IN CLINICAL RESEARCH	
EPI 50196	INDIVIDUAL INVESTIGATION IN EPIDEMIOLOGY	
EPI 63014	EPIDEMIOLOGY OF CHRONIC DISEASES	
EPI 63015	EPIDEMIOLOGY OF INFECTIOUS DISEASES	
Culminating Requirement, choose from the following: <sup>1</sup>		6
EPI 63192	RESEARCH PRACTICUM IN CLINICAL EPIDEMIOLOGY	
EPI 63199	THESIS I	
Minimum Total Credit Hours:		36

<sup>1</sup> All students will be required to present their thesis or research-based practicum to the College of Public Health at a presentation day, either in person or using videoconferencing technology

## Graduation Requirements

Some students may be required to take science-based courses in addition to the requirements for the degree, and therefore, will graduate with more than the listed credit hours.

## Environmental Health Sciences - Minor

### College of Public Health

131 Moulton Hal  
Kent Campus  
330-672-6500  
publichealth@kent.edu  
www.kent.edu/publichealth

## Description

The Environmental Health Sciences minor is intended for students who have a strong interest or curricular focus in a natural science major. The minor provides students with foundational concepts in environmental health as it relates to the broad field of public health. This includes students in a variety of majors, including, but not limited to, biology, chemistry, geology, geography, physics, botany and zoology.

Students who complete the required coursework and have 30 credit hours of coursework in specific public health areas, biology, chemistry, physics, geology, math or statistics can pursue a Sanitarian in Training (SIT) career path in State of Ohio agencies to become a Registered Sanitarian (RS) and are well equipped to enter the workforce in a variety of career paths.

### Fully Offered At:

- Kent Campus

## Admission Requirements

Admission to a minor is open to students declared in a bachelor's degree, the A.A.B. or A.A.S. degree or the A.T.S. degree (not Individualized Program major). Students declared only in the A.A. or A.S. degree or the A.T.S. degree in Individualized Program may not declare a minor. Students may not pursue a minor and a major in the same discipline.

## Minor Requirements

Code	Title	Credit Hours
<b>Minor Requirements</b>		
PH 20001	ESSENTIALS OF EPIDEMIOLOGY	3
PH 30002	INTRODUCTORY BIOSTATISTICS	3
PH 30006	INTRODUCTION TO ENVIRONMENTAL HEALTH AND SAFETY	3
PH 30007	PREVENTION AND CONTROL OF DISEASES	3
<b>Biological Sciences (BSCI) Electives, choose from the following:</b>		4
BSCI 10001	HUMAN BIOLOGY (KBS)	
BSCI 10003	LABORATORY EXPERIENCE IN BIOLOGY (KBS) (KLAB)	
BSCI 10110	BIOLOGICAL DIVERSITY (KBS) (KLAB)	
BSCI 11010	FOUNDATIONAL ANATOMY AND PHYSIOLOGY I (KBS) (KLAB)	

BSCI 21010	ANATOMY AND PHYSIOLOGY I (KBS) (KLAB)	
<b>Chemistry (CHEM) Electives, choose from the following:</b>		<b>3-5</b>
CHEM 10050	FUNDAMENTALS OF CHEMISTRY (KBS)	
CHEM 10055	MOLECULES OF LIFE (KBS)	
CHEM 10060	GENERAL CHEMISTRY I (KBS)	
CHEM 10062	GENERAL CHEMISTRY I LABORATORY (KBS) (KLAB)	
<b>Mathematics (MATH) Electives, choose from the following:</b>		<b>3-5</b>
MATH 10772	MODELING ALGEBRA PLUS (KMCR)	
MATH 10775	ALGEBRA FOR CALCULUS PLUS (KMCR)	
MATH 11009	MODELING ALGEBRA (KMCR)	
MATH 11010	ALGEBRA FOR CALCULUS (KMCR)	
MATH 11012	INTUITIVE CALCULUS (KMCR)	
MATH 11022	TRIGONOMETRY (KMCR)	
MATH 12002	ANALYTIC GEOMETRY AND CALCULUS I (KMCR)	
MATH 12011	CALCULUS WITH PRECALCULUS I (KMCR)	
MATH 12021	CALCULUS FOR LIFE SCIENCES	
<b>Minor Electives, choose from the following:</b>		<b>8-9</b>
BSCI 10120	BIOLOGICAL FOUNDATIONS (KBS) (KLAB)	
BSCI 30140	CELL BIOLOGY	
BSCI 30171	GENERAL MICROBIOLOGY	
BSCI 20021	BASIC MICROBIOLOGY	
CHEM 10061	GENERAL CHEMISTRY II (KBS)	
CHEM 10063	GENERAL CHEMISTRY II LABORATORY (KBS) (KLAB)	
GEOL 21062	ENVIRONMENTAL EARTH SCIENCE (KBS)	
PH 30012	COMMUNICABLE DISEASES	
PHY 13001	GENERAL COLLEGE PHYSICS I (KBS)	
PHY 13011	COLLEGE PHYSICS I (KBS)	
PHY 13021	GENERAL COLLEGE PHYSICS LABORATORY I (KBS) (KLAB)	
PHY 23101	GENERAL UNIVERSITY PHYSICS I (KBS) (KLAB)	
Minimum Total Credit Hours:		30

## Graduation Requirements

Minimum Minor GPA	Minimum Overall GPA
2.000	2.000

- Minimum 6 credit hours in the minor must be upper-division coursework (30000 and 40000 level).
- Minimum 6 credit hours in the minor must be outside of the course requirements for any major or other minor the student is pursuing.
- Minimum 50 percent of the total credit hours for the minor must be taken at Kent State (in residence).

## Health Services Administration - Minor

### College of Public Health

131 Moulton Hal  
Kent Campus  
330-672-6500  
publichealth@kent.edu  
www.kent.edu/publichealth

## Description

The Health Services Administration minor is intended for students that have a strong interest in concepts related to the management, ethics and practice of the administration of health services. Students complete a series of specific courses designed to enhance their knowledge in the area of health services, as well as courses geared for professional practice.

The minor will augment students' study in a variety of majors including, but not limited to, business, communications, nursing, psychology, sociology, public health and health and human services.

## Fully Offered At:

- Kent Campus

## Admission Requirements

Admission to a minor is open to students declared in a bachelor's degree, the A.A.B. or A.A.S. degree or the A.T.S. degree (not Individualized Program major). Students declared only in the A.A. or A.S. degree or the A.T.S. degree in Individualized Program may not declare a minor. Students may not pursue a minor and a major in the same discipline.

## Minor Requirements

Code	Title	Credit Hours
<b>Minor Requirements</b>		
PH 20000	PUBLIC HEALTH PROFESSIONAL PRACTICE I	1
PH 30000	PUBLIC HEALTH PROFESSIONAL PRACTICE II	1
PH 30015	UNITED STATES HEALTH CARE SYSTEM	3
PH 30033	PUBLIC HEALTH POLICY AND DECISION-MAKING <sup>1</sup>	3
PH 40000	PUBLIC HEALTH PROFESSIONAL PRACTICE III	1
PH 44015	PUBLIC HEALTH MANAGEMENT	3
PH 44020	PUBLIC HEALTH ETHICS IN PRACTICE, POLICY AND RESEARCH	3
PH 44025	PRINCIPLES OF PUBLIC HEALTH LEADERSHIP	3
or MGMT 34165	DYNAMICS OF LEADERSHIP	
Minor Electives, choose from the following:		3
ACCT 23021	INTRODUCTION TO MANAGERIAL ACCOUNTING	
COMM 46503	HEALTH COMMUNICATION AND MEDIA	
COMM 46507	EVERYDAY INTERPERSONAL COMMUNICATION AND HEALTH	
ECON 42086	ECONOMICS OF HEALTH CARE	
ENG 30063	PROFESSIONAL WRITING	
GERO 44031	SOCIAL POLICY AND COMMUNITY RESOURCES FOR OLDER ADULTS	
HED 32575	CONSUMER HEALTH	
HDFS 44032	NONPROFIT FUNDRAISING AND GRANTWRITING	
INS 29000	INTRODUCTION TO INSURANCE AND RISK	
MGMT 34157	INTRODUCTION TO HEALTHCARE SYSTEMS MANAGEMENT	
PACS 44040	NEGOTIATION	
PH 32005	EMERGING ISSUES IN COMMUNITY HEALTH	
PH 44002	GLOBAL HEALTH IMMERSION: GENEVA, SWITZERLAND	
PH 44010	PUBLIC HEALTH PLANNING AND FINANCE	

PLST 35003	HEALTH LAW
POL 30301	INTRODUCTION TO PUBLIC ADMINISTRATION
SOC 42563	SOCIOLOGY OF HEALTH AND HEALTH CARE

Minimum Total Credit Hours: 21

<sup>1</sup> Students declared in the Nursing major may substitute NURS 40045 for PH 30033.

## Graduation Requirement

Minimum Minor GPA	Minimum Overall GPA
2.000	2.000

- Minimum 6 credit hours in the minor must be upper-division coursework (30000 and 40000 level).
- Minimum 6 credit hours in the minor must be outside of the course requirements for any major or other minor the student is pursuing.
- Minimum 50 percent of the total credit hours for the minor must be taken at Kent State (in residence).

## Public Health - B.S.P.H.

### College of Public Health

131 Moulton Hall  
Kent Campus  
330-672-6500  
publichealth@kent.edu  
www.kent.edu/publichealth

## Description

The Bachelor of Science in Public Health degree in Public Health broadly prepares students to enter the workforce as a public health professional or to enter an advanced program of study. Students explore the five disciplines of public health: biostatistics, environmental health, epidemiology, health policy and management and the social and behavioral sciences through general coursework.

The Public Health major comprises the following concentrations:

- The **Allied Health** concentration seeks to augment the career portfolio of the allied health professional or aspiring student. Students who are interested in a generalist focus in public health or interested in moving to a professional degree (accelerated nursing) or technical allied health degree (respiratory care, radiologic technology, occupational/physical therapy assisting, etc.) are encouraged to pursue this path. Students may currently hold or may be actively pursuing a state licensure in an allied health field and may be eligible to receive a maximum 12 credit hours of upper division credit for their prior experience and demonstrated competency in select areas. Students without a state licensure may still pursue this concentration but will complete 12 hours of coursework in allied health specific areas. Students in this concentration will be exposed to broad areas of public health including epidemiology, biostatistics, environmental health, global health and health policy; thus, preparing students to meet the increased demands for a trained and educated public health workforce.
- The **Clinical Trials Research** concentration focuses on training students in the epidemiology methods used in clinical research. The curriculum provides students a thorough understanding of the

management of research studies, the scientific literature related to drugs, medical devices and other new therapies, and the federal regulations related to conducting clinical trials. Students are prepared to design and answer research questions, collect and manage data and communicate research findings to both scientific and lay audiences. An internship experience provides necessary experience in a clinical research setting. Potential places of employment for graduates include hospitals, contract research organizations, medical schools and pharmaceutical companies where graduates assist with and manage clinical research studies.

- The **Community Health Outreach and Development** concentration focuses on identifying and exploring ways to influence the multi-level determinants of population health and health behaviors, from a perspective that prioritizes health equity and social justice. Approaches focus on community- and system-level strategies to promote health and healthy behaviors among populations and eliminate health disparities through media, policy and education initiatives. Career options include the public sector, social services, non-profit agencies and other community-based health promotion and advocacy efforts. Graduates are prepared to assist with developing, implementing and coordinating public health interventions that promote community health and organize diverse communities around issues related to health and health behavior.
- The **Global Health** concentration educates students in identifying and working to address the critical public health and human needs of diverse, underserved and vulnerable populations locally and globally. Students learn the need for multidisciplinary (biological and social sciences) approaches and cooperation to address the major global public health problems. In addition, they have the opportunity to focus on a specific aspect of global health, e.g. HIV/AIDS, health policy, health disparities, health education, environmental health, nutrition. Graduates are prepared to work at entry level positions in public health with local, regional, national or international public health agencies in both public and private sectors. Students who pursue this concentration are required to participate in a study abroad experience and complete four courses (at the elementary and intermediate levels) of either Arabic, Chinese, French, Russian or Spanish
- The **Health Services Administration** concentration establishes a foundation for graduate work in health policy and management. Students analyze national and local public health infrastructure, evaluate the effectiveness and efficiency of health care delivery and explore the legal and ethical issues of health care administration. Graduates enter the health care workforce as finance managers, compliance officers, patient navigators, insurance specialists and other health care managers. Students are encouraged to pair this concentration with a minor.
- The **Pre-Medicine, Dentistry, Osteopathy** concentration includes preparatory courses for the Medical College Admissions Test (MCAT), the Dental Admissions Test (DAT) and admission entry into other professional schools including pharmacy, podiatry, occupational/physical therapy and physicians assistant programs. The overall curriculum—focusing on biological, social and economic determinants of health, prevention and control of diseases, introduction to biostatistics and public health research—makes this program highly desirable for admission to professional schools. The unique features of the program open new opportunities and offer competitive advantages for students seeking to enter into clinical medicine.

### Combined Degree Program - Bachelor of Science in Public Health and Master of Public Health Degrees

A formal combined degree program allows students to earn the B.S.P.H. degree (Health Services Administration concentration) and the M.P.H. degree (Health Policy and Management concentration). Qualified undergraduate students may apply by completing an application for admission to the Master of Public Health degree and securing approval from the college no later than March 1 for acceptance into the fall cohort. Students must consult with their undergraduate and faculty advisors to create a plan substituting selected master's courses for selected undergraduate courses based on approved courses. Following graduation from the B.S.P.H. degree, students' application to the M.P.H. degree may be activated for admission. Please refer to the Combined Bachelor's/Master's Degree Program policy in the Academic Policies section of the University Catalog for eligibility criteria for combined degree programs. Applicants must have completed two semesters of college composition, a college-level mathematics course, PH 10001 and PH 30033.

#### Fully Offered At:

- Online (Allied Health, Clinical Trials Research, Community Health Outreach and Development, Health Services Administration concentrations only)
- Kent Campus (all concentrations)

### Accreditation

The B.S.P.H. degree in Public Health is accredited by the Council on Education for Public Health (CEPH).

### Admission Requirements

The university affirmatively strives to provide educational opportunities and access to students with varied backgrounds, those with special talents and adult students who graduated from high school three or more years ago.

**Freshman Students on the Kent Campus:** The freshman admission policy on the Kent Campus is selective. Admission decisions are based upon the following: cumulative grade point average, ACT and/or SAT scores, strength of high school college preparatory curriculum and grade trends. The Admissions Office at the Kent Campus may defer the admission of students who do not meet admissions criteria but who demonstrate areas of promise for successful college study. Deferred applicants may begin their college coursework at one of seven regional campuses of Kent State University. For more information on admissions, including additional requirements for some academic programs, visit the admissions website for new freshmen.

**Freshman Students on the Regional Campuses:** Kent State campuses at Ashtabula, East Liverpool, Geauga, Salem, Stark, Trumbull and Tuscarawas, as well as the Regional Academic Center in Twinsburg, have open enrollment admission for students who hold a high school diploma, GED or equivalent.

**English Language Proficiency Requirements for International Students:** All international students must provide proof of English language proficiency (unless they meet specific exceptions) by earning a minimum 525 TOEFL score (71 on the Internet-based version), minimum 75 MELAB score, minimum 6.0 IELTS score or minimum 48 PTE score, or by completing the ESL level 112 Intensive Program. For more information on

international admission, visit the Office of Global Education's admission website.

**Transfer, Transitioning and Former Students:** For more information about admission criteria for transfer, transitioning and former students, please visit the admissions website.

### University Requirements

All students in a bachelor's degree program at Kent State University must complete the following university requirements for graduation.

**NOTE:** University requirements may be fulfilled in this program by specific course requirements. Please see Program Requirements for details.

Destination Kent State: First Year Experience	1
Course is not required for students with 25 transfer credits, excluding College Credit Plus, or age 21+ at time of admission.	
Diversity Domestic/Global (DIVD/DIVG)	2 courses
Students must successfully complete one domestic and one global course, of which one must be from the Kent Core.	
Experiential Learning Requirement (ELR)	varies
Students must successfully complete one course or approved experience.	
Kent Core (see table below)	36-37
Writing-Intensive Course (WIC)	1 course
Students must earn a minimum C grade in the course.	
Upper-Division Requirement	39 (or 42)
Students must successfully complete 39 upper-division (numbered 30000 to 49999) credit hours to graduate. Students in a B.A. and/or B.S. degree in the College of Arts and Sciences must complete 42 upper-division credit hours.	
Total Credit Hour Requirement	120
Some bachelor's degrees require students to complete more than 120 credit hours.	

### Kent Core Requirements

Kent Core Composition (KCMP)	6
Kent Core Mathematics and Critical Reasoning (KMCR)	3
Kent Core Humanities and Fine Arts (KHUM/KFA) (min one course each)	9
Kent Core Social Sciences (KSS) (must be from two disciplines)	6
Kent Core Basic Sciences (KBS/KLAB) (must include one laboratory)	6-7
Kent Core Additional (KADL)	6
<b>Total Credit Hours:</b>	<b>36-37</b>

### Program Requirements

#### Major Requirements

Code	Title	Credit Hours
<b>Major Requirements (courses count in major GPA)</b>		
PH 10001	INTRODUCTION TO PUBLIC HEALTH	3
PH 10002	INTRODUCTION TO GLOBAL HEALTH (DIVG)	3
PH 20001	ESSENTIALS OF EPIDEMIOLOGY	3
PH 30002	INTRODUCTORY BIostatISTICS	3
PH 30004	PUBLIC HEALTH RESEARCH <sup>1</sup>	3

PH 30005	SOCIAL AND BEHAVIORAL SCIENCE THEORIES IN PUBLIC HEALTH	3
PH 30006	INTRODUCTION TO ENVIRONMENTAL HEALTH AND SAFETY	3
PH 30007	PREVENTION AND CONTROL OF DISEASES <sup>1</sup>	3
PH 30033	PUBLIC HEALTH POLICY AND DECISION-MAKING <sup>1</sup>	3
PH 44000	HEALTH DISPARITIES (DIVD) (WIC) (min C grade) <sup>2</sup>	3
PH 49000	CAPSTONE EXPERIENCE IN PUBLIC HEALTH (ELR)	3
Public Health (PH) Electives		9
<b>Additional Requirements (courses do not count in major GPA)</b>		
UC 10097	DESTINATION KENT STATE: FIRST YEAR EXPERIENCE	1
Kent Core Composition		6
Kent Core Humanities and Fine Arts (minimum one course from each)		9
Kent Core Social Sciences (must be from two disciplines) <sup>3</sup>		6
<b>Concentrations</b>		
Choose from the following:		56-58
Allied Health		
Clinical Trials Research		
Community Health Outreach and Development		
Global Health		
Health Services Administration		
Pre-Medicine, Dental, Osteopathy		
Minimum Total Credit Hours:		120-122

- <sup>1</sup> Students in the Nursing major may substitute NURS 40020 for PH 30007, NURS 40045 for PH 30033 and NURS 40872 for PH 30004.
- <sup>2</sup> A minimum C grade must be earned to fulfill the writing-intensive requirement.
- <sup>3</sup> Recommended for students pursuing Global Health concentration: GEOG 22061, PSYC 11762, SOC 12050.

### Allied Health Concentration Requirements

Code	Title	Credit Hours
<b>Concentration Requirements (courses count in major GPA)</b>		
State Licensure or Public Health and Science Electives, choose from the following: <sup>1</sup>		12
<i>State Licensure (12 credit hours)</i>		
<i>Public Health (PH) Electives, choose from the following (6 credit hours):</i>		
PH 20010	INTRODUCTION TO PUBLIC HEALTH INFORMATICS	
PH 30015	UNITED STATES HEALTH CARE SYSTEM	
PH 34001	PUBLIC HEALTH INTERVENTIONS I	
PH 34002	PUBLIC HEALTH INTERVENTIONS II	
PH 40013	CLINICAL EPIDEMIOLOGY BASICS	
PH 40014	CLINICAL TRIALS MANAGEMENT	
PH 44005	LEGAL ASPECTS OF HEALTH SERVICES MANAGEMENT	
PH 44010	PUBLIC HEALTH PLANNING AND FINANCE	
PH 44015	PUBLIC HEALTH MANAGEMENT	
PH 44020	PUBLIC HEALTH ETHICS IN PRACTICE, POLICY AND RESEARCH	
PH 44025	PRINCIPLES OF PUBLIC HEALTH LEADERSHIP	
<i>Science Electives, choose from the following (6 credit hours):</i>		

BSCI 11010	FOUNDATIONAL ANATOMY AND PHYSIOLOGY I (KBS) (KLAB)	
BSCI 11020	FOUNDATIONAL ANATOMY AND PHYSIOLOGY II (KBS) (KLAB)	
BSCI 20021	BASIC MICROBIOLOGY	
or BSCI 30171	GENERAL MICROBIOLOGY	
BSCI 21020	ANATOMY AND PHYSIOLOGY II	
BSCI 21010	ANATOMY AND PHYSIOLOGY I (KBS) (KLAB)	
BSCI 30050	HUMAN GENETICS	
or BSCI 30156	ELEMENTS OF GENETICS	
CHEM 10050	FUNDAMENTALS OF CHEMISTRY (KBS)	
or CHEM 10055	MOLECULES OF LIFE (KBS)	
or CHEM 10060	GENERAL CHEMISTRY I (KBS)	
HED 14020	MEDICAL TERMINOLOGY	
NURS 20950	HUMAN GROWTH AND DEVELOPMENT FOR HEALTH PROFESSIONALS	
NUTR 23511	SCIENCE OF HUMAN NUTRITION (KBS)	
PSYC 11762	GENERAL PSYCHOLOGY (DIVD) (KSS)	
SOC 12050	INTRODUCTION TO SOCIOLOGY (DIVD) (KSS)	
<b>Additional Requirements (courses do not count in major GPA)</b>		
Mathematics Elective, choose from the following:		3-5
CS 10051	INTRODUCTION TO COMPUTER SCIENCE (KMCR)	
MATH 10041	INTRODUCTORY STATISTICS (KMCR)	
MATH 10051	QUANTITATIVE REASONING (KMCR)	
MATH 10771	BASIC MATHEMATICAL CONCEPTS I PLUS (KMCR)	
MATH 10772	MODELING ALGEBRA PLUS (KMCR)	
MATH 10775	ALGEBRA FOR CALCULUS PLUS (KMCR)	
MATH 11008	EXPLORATIONS IN MODERN MATHEMATICS (KMCR)	
MATH 11009	MODELING ALGEBRA (KMCR)	
MATH 11010	ALGEBRA FOR CALCULUS (KMCR)	
MATH 11012	INTUITIVE CALCULUS (KMCR)	
MATH 11022	TRIGONOMETRY (KMCR)	
MATH 12002	ANALYTIC GEOMETRY AND CALCULUS I (KMCR)	
MATH 12011	CALCULUS WITH PRECALCULUS I (KMCR)	
MATH 12012	CALCULUS WITH PRECALCULUS II (KMCR)	
MATH 14001	BASIC MATHEMATICAL CONCEPTS I (KMCR)	
MATH 14002	BASIC MATHEMATICAL CONCEPTS II (KMCR)	
Kent Core Basic Sciences (must include one laboratory)		6-7
Kent Core Additional		6
General Electives (total credit hours depends on earning 120 credit hours, including 39 upper-division credit hours)		29
Minimum Total Credit Hours:		56

- <sup>1</sup> At their time of admission, a student must submit a copy of their state licensure to an academic advisor in the College of Public Health. State licensure must be valid through the student's graduation term.

### Clinical Trials Research Concentration Requirements

Code	Title	Credit Hours
<b>Concentration Requirements (courses count in major GPA)</b>		
PH 40013	CLINICAL EPIDEMIOLOGY BASICS	3
PH 40014	CLINICAL TRIALS MANAGEMENT	3



PH 40015	SCIENTIFIC WRITING FOR CLINICAL RESEARCH	3
PH 40017	PHARMACOEPIDEMIOLOGY	3
PH 40018	REGULATORY AFFAIRS IN CLINICAL RESEARCH	3
Public Health (PH) Upper-Division Electives (30000 or 40000 level)		6
<b>Additional Requirements (courses do not count in major GPA)</b>		
CHEM 10050	FUNDAMENTALS OF CHEMISTRY (KBS)	3
or CHEM 10055	MOLECULES OF LIFE (KBS)	
or CHEM 10060	GENERAL CHEMISTRY I (KBS)	
MATH 11009	MODELING ALGEBRA (KMCR)	3-4
or MATH 11010	ALGEBRA FOR CALCULUS (KMCR)	
or MATH 10773		
or MATH 10775	ALGEBRA FOR CALCULUS PLUS (KMCR)	
Biological Sciences Electives, choose from the following:		4-5
BSCI 10001	HUMAN BIOLOGY (KBS)	
& BSCI 10003	and LABORATORY EXPERIENCE IN BIOLOGY (KBS) (KLAB)	
BSCI 10110	BIOLOGICAL DIVERSITY (KBS) (KLAB)	
BSCI 10120	BIOLOGICAL FOUNDATIONS (KBS) (KLAB)	
BSCI 21010	ANATOMY AND PHYSIOLOGY I (KBS) (KLAB)	
Kent Core Additional		6
General Electives (total credit hours depends on earning 120 credit hours, including 39 upper-division credit hours)		13
Minimum Total Credit Hours:		50

## Community Health Outreach and Development Concentration Requirements

Code	Title	Credit Hours
<b>Concentration Requirements (courses count in major GPA)</b>		
PH 34001	PUBLIC HEALTH INTERVENTIONS I	3
PH 34002	PUBLIC HEALTH INTERVENTIONS II	3
PH 35001	COMMUNITY-BASED PUBLIC HEALTH PRACTICE (ELR)	3
PH 35005	ADVOCACY AND ACTIVISM IN PUBLIC HEALTH	3
PH 45092	SERVICE LEARNING PRACTICUM IN COMMUNITY-BASED PUBLIC HEALTH (ELR)	3
or PH 44092	INTERNSHIP IN PUBLIC HEALTH (ELR)	
<b>Additional Requirements (courses do not count in major GPA)</b>		
Mathematics Elective, choose from the following:		3-5
MATH 10771	BASIC MATHEMATICAL CONCEPTS I PLUS (KMCR)	
MATH 10772	MODELING ALGEBRA PLUS (KMCR)	
MATH 10775	ALGEBRA FOR CALCULUS PLUS (KMCR)	
MATH 11009	MODELING ALGEBRA (KMCR)	
MATH 11010	ALGEBRA FOR CALCULUS (KMCR)	
MATH 11012	INTUITIVE CALCULUS (KMCR)	
MATH 11022	TRIGONOMETRY (KMCR)	
MATH 12011	CALCULUS WITH PRECALCULUS I (KMCR)	
MATH 12012	CALCULUS WITH PRECALCULUS II (KMCR)	
MATH 14001	BASIC MATHEMATICAL CONCEPTS I (KMCR)	
MATH 14002	BASIC MATHEMATICAL CONCEPTS II (KMCR)	
Kent Core Basic Sciences (must include one laboratory)		6-7
Kent Core Additional		6
General Electives (total credit hours depends on earning 120 credit hours, including 39 upper-division credit hours)		26
Minimum Total Credit Hours:		56

## Global Health Concentration Requirements

Code	Title	Credit Hours
<b>Concentration Requirements (courses count in major GPA)</b>		
PH 44003	ENVIRONMENTAL HEALTH ISSUES IN LOW- AND MIDDLE-INCOME COUNTRIES	3
Public Health Electives, choose from the following:		6
PH 40092	INTERNATIONAL HEALTH PRACTICUM (ELR)	
PH 41092	FIELD EXPERIENCE IN MEETING THE BASIC HEALTH AND HUMAN NEEDS (ELR)	
PH 44002	GLOBAL HEALTH IMMERSION: GENEVA, SWITZERLAND	
PH 44004	GLOBAL HEALTH IMMERSION: LATIN AMERICA	
Global Health Electives, choose from the following:		6
ANTH 48250	MEDICAL ANTHROPOLOGY (DIVG)	
COMM 35852	INTERCULTURAL COMMUNICATION (DIVG)	
GEOG 31070	POPULATION AND THE ENVIRONMENT	
GEOG 42052	MEDICAL GEOGRAPHY	
HED 47070	AIDS: ISSUES, EDUCATION AND PREVENTION	
PHIL 40005	HEALTH CARE ETHICS	
POL 30301	INTRODUCTION TO PUBLIC ADMINISTRATION	
POL 30511	PROBLEMS OF INTERNATIONAL ORGANIZATION	
POL 30810	POLITICS OF THE GLOBAL ECONOMY	
POL 40450	HEALTH CARE AND SOCIAL POLICY	
POL 40470	WOMEN, POLITICS AND POLICY (DIVD)	
<b>Additional Requirements (courses do not count in major GPA)</b>		
Mathematics Elective, choose from the following:		3-5
MATH 10771	BASIC MATHEMATICAL CONCEPTS I PLUS (KMCR)	
MATH 10772	MODELING ALGEBRA PLUS (KMCR)	
MATH 10775	ALGEBRA FOR CALCULUS PLUS (KMCR)	
MATH 11009	MODELING ALGEBRA (KMCR)	
MATH 11010	ALGEBRA FOR CALCULUS (KMCR)	
MATH 11012	INTUITIVE CALCULUS (KMCR)	
MATH 11022	TRIGONOMETRY (KMCR)	
MATH 12002	ANALYTIC GEOMETRY AND CALCULUS I (KMCR)	
MATH 12011	CALCULUS WITH PRECALCULUS I (KMCR)	
MATH 12012	CALCULUS WITH PRECALCULUS II (KMCR)	
MATH 14001	BASIC MATHEMATICAL CONCEPTS I (KMCR)	
MATH 14002	BASIC MATHEMATICAL CONCEPTS II (KMCR)	
Arabic, Chinese, French, Russian or Spanish Language (Elementary I and II and Intermediate I and II)		14-20
Kent Core Basic Sciences (must include one laboratory) <sup>1</sup>		6-7
Kent Core Additional		6
General Electives (total credit hours depends on earning 120 credit hours, including 39 upper-division credit hours) <sup>2</sup>		12
Minimum Total Credit Hours:		56

<sup>1</sup> Recommended courses: GEOG 22061, PSYC 11762, SOC 12050.

<sup>2</sup> Minimum 12 credit hours of study abroad semester courses count as general elective.

## Health Services Administration Concentration Requirements

Code	Title	Credit Hours
<b>Concentration Requirements (courses count in major GPA)</b>		
PH 20000	PUBLIC HEALTH PROFESSIONAL PRACTICE I	1
PH 30000	PUBLIC HEALTH PROFESSIONAL PRACTICE II	1
PH 30015	UNITED STATES HEALTH CARE SYSTEM	3
PH 40000	PUBLIC HEALTH PROFESSIONAL PRACTICE III	1
PH 44005	LEGAL ASPECTS OF HEALTH SERVICES MANAGEMENT	3
PH 44010	PUBLIC HEALTH PLANNING AND FINANCE	3
PH 44015	PUBLIC HEALTH MANAGEMENT	3
PH 44020	PUBLIC HEALTH ETHICS IN PRACTICE, POLICY AND RESEARCH	3
PH 44025	PRINCIPLES OF PUBLIC HEALTH LEADERSHIP	3
Health Services Elective, choose from the following:		3
PH 20010	INTRODUCTION TO PUBLIC HEALTH INFORMATICS	
PH 20015	ZOMBIE OUTBREAK	
PH 43014	PUBLIC HEALTH AND MASS INCARCERATION	
PH 30025	FUNDAMENTALS OF HEALTHCARE COMPLIANCE	
PH 30020	FUNDAMENTALS OF HEALTH PRIVACY	
PH 40195	SPECIAL TOPICS IN PUBLIC HEALTH	
PH 44092	INTERNSHIP IN PUBLIC HEALTH (ELR)	
<b>Additional Requirements (courses do not count in major GPA)</b>		
Mathematics Elective, choose from the following:		3-5
MATH 10771	BASIC MATHEMATICAL CONCEPTS I PLUS (KMCR)	
MATH 10772	MODELING ALGEBRA PLUS (KMCR)	
MATH 10775	ALGEBRA FOR CALCULUS PLUS (KMCR)	
MATH 11009	MODELING ALGEBRA (KMCR)	
MATH 11010	ALGEBRA FOR CALCULUS (KMCR)	
MATH 11012	INTUITIVE CALCULUS (KMCR)	
MATH 11022	TRIGONOMETRY (KMCR)	
MATH 12002	ANALYTIC GEOMETRY AND CALCULUS I (KMCR)	
MATH 12011	CALCULUS WITH PRECALCULUS I (KMCR)	
MATH 12012	CALCULUS WITH PRECALCULUS II (KMCR)	
MATH 14001	BASIC MATHEMATICAL CONCEPTS I (KMCR)	
MATH 14002	BASIC MATHEMATICAL CONCEPTS II (KMCR)	
Kent Core Basic Sciences (must include one laboratory)		6-7
Kent Core Additional		6
General Electives (total credit hours depends on earning 120 credit hours, including 39 upper-division credit hours)		17
Minimum Total Credit Hours:		56

## Pre-Medicine, Dental, Osteopathy Concentration Requirements

Code	Title	Credit Hours
<b>Concentration Requirements (courses count in major GPA)</b>		
BSCI 10120	BIOLOGICAL FOUNDATIONS (KBS) (KLAB)	4
CHEM 10060	GENERAL CHEMISTRY I (KBS)	4
CHEM 10061	GENERAL CHEMISTRY II (KBS)	4
CHEM 10062	GENERAL CHEMISTRY I LABORATORY (KBS) (KLAB)	1

CHEM 10063	GENERAL CHEMISTRY II LABORATORY (KBS) (KLAB)	1
CHEM 20481	BASIC ORGANIC CHEMISTRY I	4
or CHEM 30481	ORGANIC CHEMISTRY I	
CHEM 30475	ORGANIC CHEMISTRY LABORATORY I (ELR)	1
Concentration Electives, choose from the following:		24-43
ATTR 25057	HUMAN ANATOMY AND PHYSIOLOGY I (KBS) (KLAB)	
ATTR 25058	HUMAN ANATOMY AND PHYSIOLOGY II (KBS) (KLAB)	
BSCI 10110	BIOLOGICAL DIVERSITY (KBS) (KLAB)	
BSCI 11010	FOUNDATIONAL ANATOMY AND PHYSIOLOGY I (KBS) (KLAB)	
BSCI 21010	ANATOMY AND PHYSIOLOGY I (KBS) (KLAB)	
BSCI 21020	ANATOMY AND PHYSIOLOGY II	
BSCI 30130	HUMAN PHYSIOLOGY	
BSCI 30140	CELL BIOLOGY	
BSCI 30156	ELEMENTS OF GENETICS	
BSCI 30171	GENERAL MICROBIOLOGY	
BSCI 40430	ANIMAL PHYSIOLOGY	
CHEM 30284	INTRODUCTORY BIOLOGICAL CHEMISTRY	
CHEM 30476	ORGANIC CHEMISTRY LABORATORY II	
CHEM 40248	ADVANCED BIOLOGICAL CHEMISTRY	
CHEM 20482	BASIC ORGANIC CHEMISTRY II	
or CHEM 30482	ORGANIC CHEMISTRY II	
ECON 22060	PRINCIPLES OF MICROECONOMICS (KSS)	
GERO 14029	INTRODUCTION TO GERONTOLOGY (DIVD) (KSS)	
HED 14020	MEDICAL TERMINOLOGY	
HONR 40197	SENIOR COLLOQUIUM	
MATH 11022	TRIGONOMETRY (KMCR)	
MATH 12002	ANALYTIC GEOMETRY AND CALCULUS I (KMCR)	
or MATH 12021	CALCULUS FOR LIFE SCIENCES	
MATH 12022	PROBABILITY AND STATISTICS FOR LIFE SCIENCES	
or MATH 30011	BASIC PROBABILITY AND STATISTICS	
NUTR 23511	SCIENCE OF HUMAN NUTRITION (KBS)	
PESP 25033	LIFESPAN MOTOR DEVELOPMENT	
PHIL 21001	INTRODUCTION TO ETHICS (DIVG) (KHUM)	
PHY 13001	GENERAL COLLEGE PHYSICS I (KBS)	
& PHY 13021	and GENERAL COLLEGE PHYSICS LABORATORY I (KBS) (KLAB)	
or PHY 23101	GENERAL UNIVERSITY PHYSICS I (KBS) (KLAB)	
PHY 13002	GENERAL COLLEGE PHYSICS II (KBS)	
& PHY 13022	and GENERAL COLLEGE PHYSICS LABORATORY II (KBS) (KLAB)	
or PHY 23102	GENERAL UNIVERSITY PHYSICS II (KBS) (KLAB)	
PSYC 11762	GENERAL PSYCHOLOGY (DIVD) (KSS)	
SOC 12050	INTRODUCTION TO SOCIOLOGY (DIVD) (KSS)	

*Additional Requirements (courses do not count in major GPA)*

General Electives	15
Minimum Total Credit Hours:	57

<sup>1</sup> CHEM 30482 is highly recommended as an additional course for those students planning to take the Medical College Admission Test (MCAT).

## Graduation Requirements

Minimum Major GPA	Minimum Overall GPA
2.000	2.000

# Roadmaps

- Allied Health Concentration
- Clinical Trials Research Concentration
- Community Health Outreach and Development Concentration
- Global Health Concentration
- Health Services Administration Concentration
- Pre-Medicine, Dental, Osteopathy Concentration

## ALLIED HEALTH CONCENTRATION

This roadmap is a recommended semester-by-semester plan of study for this major. However, courses designated as critical (!) must be completed in the semester listed to ensure a timely graduation.

Semester Prerequisite		Credits
!	State Licensure or Concentration Electives	12
Credit Hours		12
<b>Semester One</b>		
PH 10001	INTRODUCTION TO PUBLIC HEALTH	3
UC 10097	DESTINATION KENT STATE: FIRST YEAR EXPERIENCE	1
Mathematics Elective		3
Kent Core Requirement		3
Kent Core Requirement		3
Kent Core Requirement		3
Credit Hours		16
<b>Semester Two</b>		
PH 10002	INTRODUCTION TO GLOBAL HEALTH (DIVG)	3
Kent Core Requirement		3
Kent Core Requirement		3
Kent Core Requirement		3
General Elective		3
Credit Hours		15
<b>Semester Three</b>		
!	PH 20001 ESSENTIALS OF EPIDEMIOLOGY	3
PH 30005	SOCIAL AND BEHAVIORAL SCIENCE THEORIES IN PUBLIC HEALTH	3
Kent Core Requirement		3
Kent Core Requirement		3
Kent Core Requirement		3
Credit Hours		15
<b>Semester Four</b>		
!	PH 30007 PREVENTION AND CONTROL OF DISEASES	3
PH 30033	PUBLIC HEALTH POLICY AND DECISION-MAKING	3
Kent Core Requirement		3
Kent Core Requirement		3
General Elective		2
Credit Hours		14
<b>Semester Five</b>		
!	PH 30002 INTRODUCTORY BIostatISTICS	3
PH 30006	INTRODUCTION TO ENVIRONMENTAL HEALTH AND SAFETY	3
Major Elective		3
General Elective		3
Credit Hours		12
<b>Semester Six</b>		
!	PH 30004 PUBLIC HEALTH RESEARCH	3

Major Elective		3
General Electives		6
Credit Hours		12
<b>Semester Seven</b>		
PH 44000	HEALTH DISPARITIES (DIVD) (WIC)	3
General Electives		9
Credit Hours		12
<b>Semester Eight</b>		
PH 49000	CAPSTONE EXPERIENCE IN PUBLIC HEALTH (ELR)	3
Major Elective		3
General Electives		6
Credit Hours		12
Minimum Total Credit Hours:		120

## Clinical Trials Research Concentration

This roadmap is a recommended semester-by-semester plan of study for this major. However, courses designated as critical (!) must be completed in the semester listed to ensure a timely graduation.

Semester One		Credits
MATH 11009	MODELING ALGEBRA (KMCR)	3-4
or	or ALGEBRA FOR CALCULUS (KMCR)	
MATH 11010		
PH 10001	INTRODUCTION TO PUBLIC HEALTH	3
UC 10097	DESTINATION KENT STATE: FIRST YEAR EXPERIENCE	1
Biological Sciences Elective		4-5
Kent Core Requirement		3
Kent Core Requirement		3
Credit Hours		17
Semester Two		
PH 10002	INTRODUCTION TO GLOBAL HEALTH (DIVG)	3
Choose from the following:		3
CHEM 10050 FUNDAMENTALS OF CHEMISTRY (KBS)		
CHEM 10055 MOLECULES OF LIFE (KBS)		
CHEM 10060 GENERAL CHEMISTRY I (KBS)		
Kent Core Requirement		3
Kent Core Requirement		3
Kent Core Requirement		3
Credit Hours		15
Semester Three		
! PH 20001	ESSENTIALS OF EPIDEMIOLOGY	3
PH 30005	SOCIAL AND BEHAVIORAL SCIENCE THEORIES IN PUBLIC HEALTH	3
Kent Core Requirement		3
Kent Core Requirement		3
Major Elective		3
Credit Hours		15
Semester Four		
PH 30002	INTRODUCTORY BIOSTATISTICS	3
! PH 30007	PREVENTION AND CONTROL OF DISEASES	3
! PH 30033	PUBLIC HEALTH POLICY AND DECISION-MAKING	3
Kent Core Requirement		3
Kent Core Requirement		3
Credit Hours		15
Semester Five		
PH 30006	INTRODUCTION TO ENVIRONMENTAL HEALTH AND SAFETY	3
PH 40013	CLINICAL EPIDEMIOLOGY BASICS	3
PH 40014	CLINICAL TRIALS MANAGEMENT	3
PH 40015	SCIENTIFIC WRITING FOR CLINICAL RESEARCH	3
General Elective		3
Credit Hours		15
Semester Six		
PH 30004	PUBLIC HEALTH RESEARCH	3
PH 40017	PHARMACOEPIDEMIOLOGY	3
Major Elective		3
General Elective		6
Credit Hours		15
Semester Seven		
PH 44000	HEALTH DISPARITIES (DIVD) (WIC)	3

General Electives	9	
Concentration Elective	3	
Credit Hours	15	
Semester Eight		
PH 40018	REGULATORY AFFAIRS IN CLINICAL RESEARCH	3
PH 49000	CAPSTONE EXPERIENCE IN PUBLIC HEALTH (ELR)	3
Major Elective		3
Concentration Elective		3
General Electives		1
Credit Hours	13	
Minimum Total Credit Hours:		120



## Community Health Outreach and Development Concentration

This roadmap is a recommended semester-by-semester plan of study for this major. However, courses designated as critical (!) must be completed in the semester listed to ensure a timely graduation.

Semester One		Credits
PH 10001	INTRODUCTION TO PUBLIC HEALTH	3
UC 10097	DESTINATION KENT STATE: FIRST YEAR EXPERIENCE	1
Mathematics Elective		3
Kent Core Requirement		3
Kent Core Requirement		3
Kent Core Requirement		3
Credit Hours		16
Semester Two		
PH 10002	INTRODUCTION TO GLOBAL HEALTH (DIVG)	3
Kent Core Requirement		3
Kent Core Requirement		3
Kent Core Requirement		3
Kent Core Requirement		3
Credit Hours		15
Semester Three		
! PH 20001	ESSENTIALS OF EPIDEMIOLOGY	3
! PH 30005	SOCIAL AND BEHAVIORAL SCIENCE THEORIES IN PUBLIC HEALTH	3
Major Elective		3
Kent Core Requirement		3
Kent Core Requirement		3
Credit Hours		15
Semester Four		
! PH 30007	PREVENTION AND CONTROL OF DISEASES	3
PH 30033	PUBLIC HEALTH POLICY AND DECISION-MAKING	3
Kent Core Requirement		3
Kent Core Requirement		3
General Elective		3
Credit Hours		15
Semester Five		
! PH 30002	INTRODUCTORY BIostatISTICS	3
PH 30006	INTRODUCTION TO ENVIRONMENTAL HEALTH AND SAFETY	3
PH 34001	PUBLIC HEALTH INTERVENTIONS I	3
General Electives		6
Credit Hours		15
Semester Six		
! PH 30004	PUBLIC HEALTH RESEARCH	3
PH 34002	PUBLIC HEALTH INTERVENTIONS II	3
PH 35001	COMMUNITY-BASED PUBLIC HEALTH PRACTICE (ELR)	3
PH 44000	HEALTH DISPARITIES (DIVD) (WIC)	3
General Electives		3
Credit Hours		15
Semester Seven		
PH 35005	ADVOCACY AND ACTIVISM IN PUBLIC HEALTH	3
PH 45092	SERVICE LEARNING PRACTICUM IN	3
or PH 44092	COMMUNITY-BASED PUBLIC HEALTH (ELR) or INTERNSHIP IN PUBLIC HEALTH (ELR)	
Major Elective		3

General Electives		6
Credit Hours		15
Semester Eight		
! PH 49000	CAPSTONE EXPERIENCE IN PUBLIC HEALTH (ELR)	3
Major Elective		3
General Electives		8
Credit Hours		14
Minimum Total Credit Hours:		120

## Global Health Concentration

This roadmap is a recommended semester-by-semester plan of study for this major. However, courses designated as critical (!) must be completed in the semester listed to ensure a timely graduation.

<b>Semester One</b>		<b>Credits</b>
PH 10001	INTRODUCTION TO PUBLIC HEALTH	3
UC 10097	DESTINATION KENT STATE: FIRST YEAR EXPERIENCE	1
Foreign Language		4-5
Mathematics Elective		3
Kent Core Requirement		3
Credit Hours		14
<b>Semester Two</b>		
! PH 10002	INTRODUCTION TO GLOBAL HEALTH (DIVG)	3
! Foreign Language		4-5
Kent Core Requirement		3
Kent Core Requirement		3
Kent Core Requirement		3
Credit Hours		16
<b>Semester Three</b>		
! PH 20001	ESSENTIALS OF EPIDEMIOLOGY	3
PH 30005	SOCIAL AND BEHAVIORAL SCIENCE THEORIES IN PUBLIC HEALTH	3
! Foreign Language		3-5
Kent Core Requirement		3
Kent Core Requirement		3
Credit Hours		15
<b>Semester Four</b>		
! PH 30007	PREVENTION AND CONTROL OF DISEASES	3
PH 30033	PUBLIC HEALTH POLICY AND DECISION-MAKING	3
! Foreign Language		3-5
Kent Core Requirement		3
Kent Core Requirement		3
Credit Hours		15
<b>Semester Five</b>		
! PH 30002	INTRODUCTORY BIostatISTICS	3
PH 30006	INTRODUCTION TO ENVIRONMENTAL HEALTH AND SAFETY	3
Global Health Elective		3
Kent Core Requirement		3
Major Elective		3
General Electives		1
Credit Hours		16
<b>Semester Six</b>		
PH 40092	INTERNATIONAL HEALTH PRACTICUM (ELR)	0-6
General Electives		9
Credit Hours		15
<b>Third Summer Term</b>		
Public Health Electives, (if PH 40092 was not taken in Semester Six) choose from the following:		0-6
PH 41092	FIELD EXPERIENCE IN MEETING THE BASIC HEALTH AND HUMAN NEEDS (ELR)	
PH 44002	GLOBAL HEALTH IMMERSION: GENEVA, SWITZERLAND	
PH 44004	GLOBAL HEALTH IMMERSION: LATIN AMERICA	
Credit Hours		0

### Semester Seven

PH 30004	PUBLIC HEALTH RESEARCH	3
PH 44003	ENVIRONMENTAL HEALTH ISSUES IN LOW- AND MIDDLE-INCOME COUNTRIES	3
Major Elective		3
Kent Core Requirement		3
Kent Core Requirement		3
Credit Hours		15

### Semester Eight

PH 44000	HEALTH DISPARITIES (DIVD) (WIC)	3
! PH 49000	CAPSTONE EXPERIENCE IN PUBLIC HEALTH (ELR)	3
Major Elective		3
Global Health Elective		3
General Electives		2
Credit Hours		14
Minimum Total Credit Hours:		120

## Health Services Administration Concentration

This roadmap is a recommended semester-by-semester plan of study for this major. However, courses designated as critical (!) must be completed in the semester listed to ensure a timely graduation.

Semester One		Credits
PH 10001	INTRODUCTION TO PUBLIC HEALTH	3
UC 10097	DESTINATION KENT STATE: FIRST YEAR EXPERIENCE	1
Mathematics Elective		3
Kent Core Requirement		3
Kent Core Requirement		3
Kent Core Requirement		3
Credit Hours		16
Semester Two		
PH 10002	INTRODUCTION TO GLOBAL HEALTH (DIVG)	3
Kent Core Requirement		3
Kent Core Requirement		3
Kent Core Requirement		3
Kent Core Requirement		3
Credit Hours		15
Semester Three		
PH 20000	PUBLIC HEALTH PROFESSIONAL PRACTICE I	1
! PH 20001	ESSENTIALS OF EPIDEMIOLOGY	3
PH 30005	SOCIAL AND BEHAVIORAL SCIENCE THEORIES IN PUBLIC HEALTH	3
Kent Core Requirement		3
Kent Core Requirement		3
General Elective		3
Credit Hours		16
Semester Four		
! PH 30007	PREVENTION AND CONTROL OF DISEASES	3
! PH 30033	PUBLIC HEALTH POLICY AND DECISION-MAKING	3
Kent Core Requirement		3
Kent Core Requirement		3
General Electives		3
Credit Hours		15
Semester Five		
PH 30000	PUBLIC HEALTH PROFESSIONAL PRACTICE II	1
! PH 30002	INTRODUCTORY BIostatISTICS	3
PH 30006	INTRODUCTION TO ENVIRONMENTAL HEALTH AND SAFETY	3
Major Elective		3
General Electives		3
Credit Hours		13
Semester Six		
PH 30004	PUBLIC HEALTH RESEARCH	3
PH 30015	UNITED STATES HEALTH CARE SYSTEM	3
PH 44000	HEALTH DISPARITIES (DIVD) (WIC)	3
PH 44020	PUBLIC HEALTH ETHICS IN PRACTICE, POLICY AND RESEARCH	3
Major Elective		3
Credit Hours		15
Semester Seven		
PH 40000	PUBLIC HEALTH PROFESSIONAL PRACTICE III	1
PH 44010	PUBLIC HEALTH PLANNING AND FINANCE	3
PH 44015	PUBLIC HEALTH MANAGEMENT	3

PH 44025	PRINCIPLES OF PUBLIC HEALTH LEADERSHIP	3
Health Services Elective		3
General Elective		3
Credit Hours		16
Semester Eight		
! PH 49000	CAPSTONE EXPERIENCE IN PUBLIC HEALTH (ELR)	3
PH 44005	LEGAL ASPECTS OF HEALTH SERVICES MANAGEMENT	3
Major Elective		3
General Electives		5
Credit Hours		14
Minimum Total Credit Hours:		120

## Pre Medicine, Dental, Osteopathy Concentration

This roadmap is a recommended semester-by-semester plan of study for this major. However, courses designated as critical (!) must be completed in the semester listed to ensure a timely graduation.

Semester One			Credits
!	CHEM 10060	GENERAL CHEMISTRY I (KBS)	4
!	CHEM 10062	GENERAL CHEMISTRY I LABORATORY (KBS) (KLAB)	1
	PH 10001	INTRODUCTION TO PUBLIC HEALTH	3
	UC 10097	DESTINATION KENT STATE: FIRST YEAR EXPERIENCE	1
	Concentration Elective		3
	Kent Core Requirement		3
	Credit Hours		15
Semester Two			Credits
	BSCI 10120	BIOLOGICAL FOUNDATIONS (KBS) (KLAB)	4
!	CHEM 10061	GENERAL CHEMISTRY II (KBS)	4
!	CHEM 10063	GENERAL CHEMISTRY II LABORATORY (KBS) (KLAB)	1
	PH 10002	INTRODUCTION TO GLOBAL HEALTH (DIVG)	3
	Kent Core Requirement		3
	Credit Hours		15
Semester Three			Credits
!	CHEM 20481 or CHEM 30481	BASIC ORGANIC CHEMISTRY I or ORGANIC CHEMISTRY I	3-4
!	CHEM 30475	ORGANIC CHEMISTRY LABORATORY I (ELR)	1
!	PH 20001	ESSENTIALS OF EPIDEMIOLOGY	3
	PH 30005	SOCIAL AND BEHAVIORAL SCIENCE THEORIES IN PUBLIC HEALTH	3
	Concentration Elective		4-5
	Credit Hours		15
Semester Four			Credits
!	PH 30007	PREVENTION AND CONTROL OF DISEASES	3
	PH 30033	PUBLIC HEALTH POLICY AND DECISION-MAKING	3
	Concentration Elective		10
	Credit Hours		16
Semester Five			Credits
	PH 30002	INTRODUCTORY BIOSTATISTICS	3
	Concentration Elective		11
	Credit Hours		14
Semester Six			Credits
	PH 30004	PUBLIC HEALTH RESEARCH	3
	Major Elective		3
	Concentration Elective		9
	Credit Hours		15
Semester Seven			Credits
	PH 44000	HEALTH DISPARITIES (DIVD) (WIC)	3
	Major Elective		3
	Kent Core Requirement		3
	Kent Core Requirement		3
	Kent Core Requirement		3
	Credit Hours		15
Semester Eight			Credits
!	PH 30006	INTRODUCTION TO ENVIRONMENTAL HEALTH AND SAFETY	3

!	PH 49000	CAPSTONE EXPERIENCE IN PUBLIC HEALTH (ELR)	3
	Major Elective		3
	Kent Core Requirement		3
	Kent Core Requirement		3
	Credit Hours		15
	Minimum Total Credit Hours:		120

## Public Health - M.P.H.

### College of Public Health

131 Moulton Hall  
Kent Campus  
330-672-6500  
publichealth@kent.edu  
www.kent.edu/publichealth

## Description

**Admission to the Health Policy and Management concentration has been suspended temporarily on the Trumbull campus as of fall 2016.**

The Master of Public Health degree in Public Health is designed to help students develop real-world knowledge and skills needed to pursue success in the public health industry.

The Public Health major comprises the following concentrations:

- The **Biostatistics** concentration prepares students in the quantitative science of health data collection, storage, retrieval, analysis and interpretation. Graduates are equipped to use statistical methods to design and analyze health-related surveys and experiments for improving health. The college's faculty research interests include applying biostatistical analysis to understand critical health problems. Graduates in biostatistics are in demand at hospitals, pharmaceutical companies, state and local health departments, federal health agencies and biotechnology companies to analyze the effectiveness of new drugs and interventions, identify risk factors for disease and develop effective prevention strategies.
- The **Epidemiology** concentration prepares students to analyze the distribution and determinants of disease, disabilities and death in populations. Graduates are able to apply quantitative and qualitative methods to investigate disease outbreaks, determine causal relationships between environmental and biological factors, and conduct studies to project health trends in populations. Students in this specialization benefit from public health faculty research agendas in bio-preparedness, public health surveillance systems, chronic disease, cancer and infectious disease epidemiology. Career opportunities for graduates include research positions in universities, medical schools and pharmaceutical companies; disease prevention specialists in hospitals; and surveillance managers in state and local health departments.
- The **Health Policy and Management** concentration prepares students to address public health risks and develop effective health services delivery models. An interdisciplinary program incorporates health services research, health policy analysis and health care planning and management. Given the active research of the college's faculty in identifying service gaps and in developing evidence-based practices and policy analysis, students emerge with strong skills in health services management, alternative models of service financing and strategies for improving services. Career opportunities for

graduates include administrative and management positions in hospitals, clinics, state and local health departments, nursing homes and mental health facilities; policy analyst positions in health planning organizations and governmental agencies; and planning and management positions in health maintenance organizations and health insurance companies.

- The **Social and Behavioral Sciences** concentration provides students with an interdisciplinary approach to improve health in populations across the life course. Students learn to apply theoretical principles to design, implement, and evaluate effective programs that include behavioral and environmental approaches. Graduates are able to design and evaluate public health interventions intended to improve health for families, workplaces, communities, and other settings. The active research of the college's faculty, particularly in the areas of childhood obesity, violence and injury prevention, substance abuse prevention, and chronic disease prevention, provides students the opportunity to work on large-scale externally funded prevention research. Students are prepared for careers in health promotion; program design and evaluation; and prevention program development for state and local health departments, workplace health promotion programs, hospitals, international health agencies, mental health centers and non-profit organizations.

### Fully Offered At:

- Online (Health Policy and Management and Social and Behavioral Sciences concentrations only)
- Kent Campus
- Trumbull Campus (Health Policy and Management concentration only)
- Regional Academic Center in Twinsburg (Health Policy and Management concentration only)

## Accreditation

The M.P.H. degree in Public Health is accredited by the Council on Education for Public Health (CEPH).

## Admission Requirements

- Bachelor's degree from an accredited college or university for unconditional admission
- Minimum 3.000 undergraduate GPA on a 4.000 point scale for unconditional admission
- Official transcript(s)
- GRE scores or other standardized graduate admission exam (GMAT, MCAT, LSAT or PCAT)<sup>1</sup>
- Goal statement
- Three letters of recommendation
- English Language Proficiency - all international students must provide proof of English language proficiency (unless they meet specific exceptions) by earning one of the following:
  - Minimum 550 TOEFL PBT score - paper-based version
  - Minimum 79 TOEFL IBT - Internet-based version
  - Minimum 77 MELAB score
  - Minimum 6.5 IELTS score
  - Minimum 58 PTE score

- 
- Minimum 110 Duolingo English Test score

For more information about graduate admission, please visit the Graduate Studies website. For more information on international admission, visit the Office of Global Education's admission website.

- 1 GRE scores may be waived, as determined by graduate coordinator, using program criteria.

## Program Learning Outcomes

Graduates of this program will be able to:

1. Explain public health history, philosophy and values
2. Identify the core functions of public health and the 10 Essential Services
3. Explain the role of quantitative and qualitative methods and sciences in describing and assessing a population's health
4. List major causes and trends of morbidity and mortality in the US or other community relevant to the school or program
5. Discuss the science of primary, secondary and tertiary prevention in population health, including health promotion, screening, etc.
6. Explain the critical importance of evidence in advancing public health knowledge
7. Explain effects of environmental factors on a population's health
8. Explain biological and genetic factors that affect a population's health
9. Explain behavioral and psychological factors that affect a population's health
10. Explain the social, political and economic determinants of health and how they contribute to population health and health inequities
11. Explain how globalization affects global burdens of disease
12. Explain an ecological perspective on the connections among human health, animal health and ecosystem health (eg, One Health)
13. Apply epidemiological methods to the breadth of settings and situations in public health practice
14. Select quantitative and qualitative data collection methods appropriate for a given public health context
15. Analyze quantitative and qualitative data using biostatistics, informatics, computer-based programming and software, as appropriate
16. Interpret results of data analysis for public health research, policy or practice
17. Compare the organization, structure and function of health care, public health and regulatory systems across national and international settings
18. Discuss the means by which structural bias, social inequities and racism undermine health and create challenges to achieving health equity at organizational, community and societal levels
19. Assess population needs, assets and capacities that affect communities' health
20. Apply awareness of cultural values and practices to the design or implementation of public health policies or programs
21. Design a population-based policy, program, project or intervention
22. Explain basic principles and tools of budget and resource management
23. Select methods to evaluate public health programs



24. Discuss multiple dimensions of the policy-making process, including the roles of ethics and evidence
25. Propose strategies to identify stakeholders and build coalitions and partnerships for influencing public health outcomes
26. Advocate for political, social or economic policies and programs that will improve health in diverse populations
27. Evaluate policies for their impact on public health and health equity
28. Apply principles of leadership, governance and management, which include creating a vision, empowering others, fostering collaboration and guiding decision making
29. Apply negotiation and mediation skills to address organizational or community challenges
30. Select communication strategies for different audiences and sectors
31. Communicate audience-appropriate public health content, both in writing and through oral presentation
32. Describe the importance of cultural competence in communicating public health content
33. Perform effectively on interprofessional teams
34. Apply systems thinking tools to a public health issue

## Program Requirements

### Major Requirement

Code	Title	Credit Hours
<b>Major Requirements</b>		
BST 52019	BIostatISTICS IN PUBLIC HEALTH	4
EHS 52018	ENVIRONMENTAL HEALTH CONCEPTS IN PUBLIC HEALTH	3
EPI 52017	FUNDAMENTALS OF PUBLIC HEALTH EPIDEMIOLOGY	3
HPM 52016	PUBLIC HEALTH ADMINISTRATION	3
HPM 53010	COMMUNITY HEALTH NEEDS ASSESSMENT	3
SBS 54634	SOCIAL DETERMINANTS OF HEALTH BEHAVIORS	3
Major Electives, choose from the following;		6-9
Biostatistics Courses (BST 50000 or 60000 level)		
Environmental Health Sciences Courses (EHS 50000 or 60000 level)		
Epidemiology Courses (EPI 50000 or 60000 level)		
Health Policy and Management Courses (HPM 50000 or 60000 level)		
Social and Behavioral Sciences Courses (SBS 50000 or 60000 level)		
<b>Concentrations</b>		
Choose from the following:		21
Biostatistics		
Epidemiology		
Health Policy and Management		
Social and Behavioral Sciences		
Minimum Total Credit Hours:		46

### Biostatistics Concentration Requirements

Code	Title	Credit Hours
<b>Concentration Requirements</b>		
BST 60192	PRACTICUM EXPERIENCE IN BIostatISTICS	3-6
BST 63012	SURVIVAL ANALYSIS IN PUBLIC HEALTH	3

BST 63013	EXPERIMENTAL DESIGNS IN PUBLIC HEALTH RESEARCH	3
BST 63014	APPLIED REGRESSION ANALYSIS OF PUBLIC HEALTH DATA	3
EPI 63016	PRINCIPLES OF EPIDEMIOLOGIC RESEARCH	3
EPI 63034	LONGITUDINAL DATA ANALYSIS	3
Minimum Total Credit Hours:		21

### Epidemiology Concentration Requirements

Code	Title	Credit Hours
<b>Concentration Requirements</b>		
BST 63012 or EPI 63034	SURVIVAL ANALYSIS IN PUBLIC HEALTH LONGITUDINAL DATA ANALYSIS	3
BST 63014	APPLIED REGRESSION ANALYSIS OF PUBLIC HEALTH DATA	3
EPI 60192	PRACTICUM EXPERIENCE IN EPIDEMIOLOGY	3-6
EPI 63014	EPIDEMIOLOGY OF CHRONIC DISEASES	3
EPI 63015	EPIDEMIOLOGY OF INFECTIOUS DISEASES	3
EPI 63016	PRINCIPLES OF EPIDEMIOLOGIC RESEARCH	3
Minimum Total Credit Hours:		21

### Health Policy and Management Concentration Requirements

Code	Title	Credit Hours
<b>Concentration Requirements</b>		
HPM 53003	HEALTH CARE SYSTEMS	3
HPM 53004	PUBLIC HEALTH POLICY, LAW AND ETHICS	3
HPM 53005	FINANCIAL MANAGEMENT FOR PUBLIC HEALTH ORGANIZATIONS	3
HPM 53006	COST BENEFIT ANALYSIS IN PUBLIC HEALTH PROGRAMS	3
HPM 53007	PUBLIC HEALTH PROGRAMS: PLANNING, IMPLEMENTATION AND EVALUATION	3
HPM 60192	PRACTICUM EXPERIENCE IN HEALTH POLICY AND MANAGEMENT	3-6
Minimum Total Credit Hours:		21

### Social and Behavioral Sciences Concentration Requirements

Code	Title	Credit Hours
<b>Concentration Requirements</b>		
HPM 53007	PUBLIC HEALTH PROGRAMS: PLANNING, IMPLEMENTATION AND EVALUATION	3
SBS 50002	QUANTITATIVE METHODS IN SOCIAL AND BEHAVIORAL SCIENCES	3
SBS 50020	SOCIAL AND BEHAVIORAL SCIENCE THEORIES	3
SBS 50030	SEMINAR IN SOCIAL AND BEHAVIOR SCIENCES	3
SBS 53008	GRANT WRITING IN SOCIAL AND BEHAVIORAL SCIENCES	3
SBS 60192	PRACTICUM EXPERIENCE IN SOCIAL AND BEHAVIORAL SCIENCES	3-6
Minimum Total Credit Hours:		21

## Graduation Requirements

1. Practicum placement at an approved public health agency, under the guidance of a qualified preceptor (150 or 300 contact hours)
2. A final portfolio/report and a seminar presentation integrating theory and practice
3. A comprehensive written exam
4. Participation in at least one approved inter-professional education event. This event will require students to participate at a specific time/date to be determined in consultation with the student's advisor.

## Public Health - Minor

### College of Public Health

131 Moulton Hal  
 Kent Campus  
 330-672-6500  
 publichealth@kent.edu  
 www.kent.edu/publichealth

## Description

The Public Health minor integrates key aspects of preventing disease, prolonging life and promoting health through the organized efforts and informed choices of society, organizations, communities and individuals.

Students who choose to augment their major by adding the public health minor increase their awareness of emerging issues in public health, the social and behavioral aspects of preventing disease, environmental health concepts, the changing U.S. health care system and the monitoring of diseases in the community through applied public health research.

### Fully Offered At:

- Kent Campus

## Admission Requirements

Admission to a minor is open to students declared in a bachelor's degree, the A.A.B. or A.A.S. degree or the A.T.S. degree (not Individualized Program major). Students declared only in the A.A. or A.S. degree or the A.T.S. degree in Individualized Program may not declare a minor. Students may not pursue a minor and a major in the same discipline.

## Minor Requirements

Code	Title	Credit Hours
<b>Minor Requirements</b>		
PH 10001	INTRODUCTION TO PUBLIC HEALTH	3
PH 10002	INTRODUCTION TO GLOBAL HEALTH (DIVG)	3
PH 20001	ESSENTIALS OF EPIDEMIOLOGY	3
PH 30005	SOCIAL AND BEHAVIORAL SCIENCE THEORIES IN PUBLIC HEALTH	3
PH 30006	INTRODUCTION TO ENVIRONMENTAL HEALTH AND SAFETY	3
PH 30007	PREVENTION AND CONTROL OF DISEASES <sup>1</sup>	3
Minor Elective, choose from the following:		
PH 30002	INTRODUCTORY BIOSTATISTICS	
PH 30004	PUBLIC HEALTH RESEARCH <sup>1</sup>	

PH 30012	COMMUNICABLE DISEASES
PH 30033	PUBLIC HEALTH POLICY AND DECISION-MAKING <sup>1</sup>
PH 40195	SPECIAL TOPICS IN PUBLIC HEALTH
PH 40196	INDIVIDUAL INVESTIGATION IN PUBLIC HEALTH
PH 44000	HEALTH DISPARITIES (DIVD) (WIC)

Minimum Total Credit Hours: 21

<sup>1</sup> Students declared in the Nursing major may substitute NURS 40020 for PH 30007; NURS 40872 for PH 30004; and NURS 40045 for PH 30033.

## Graduation Requirements

Minimum Minor GPA	Minimum Overall GPA
2.000	2.000

- Minimum 6 credit hours in the minor must be upper-division coursework (30000 and 40000 level).
- Minimum 6 credit hours in the minor must be outside of the course requirements for any major or other minor the student is pursuing.
- Minimum 50 percent of the total credit hours for the minor must be taken at Kent State (in residence).

## Public Health - Ph.D.

### College of Public Health

131 Moulton Hal  
 Kent Campus  
 330-672-6500  
 publichealth@kent.edu  
 www.kent.edu/publichealth

## Description

The Ph.D. degree in Public Health bridges public safety and health career pathways to address a nationwide shortage of public health workers.

The Public Health major comprises the following concentrations:

- The **Epidemiology** concentration prepares students to examine the distribution and determinants of diseases in populations. Graduates are able to apply quantitative and qualitative methods to examine critical and/or emerging health issues, gain advanced ability to conduct large studies and analyze data sets in order to project health trends in populations of interest. Students in this concentration benefit from active faculty research agendas in biopreparedness, public health surveillance systems, chronic disease, cancer and infectious disease epidemiology.
- The **Health Policy and Management** concentration prepares students to design and implement studies and use advanced research methods to examine critical and emerging health issues. The heart of the concentration is a focus on interdisciplinary skills to meet the rapidly changing health needs of communities. Students benefit from active faculty research agendas in health systems research, occupational health and safety, reproductive health, HIV/AIDS, access to health care, health literacy, substance abuse prevention and community-based programming.

- The **Prevention Science** concentration is an interdisciplinary program aimed at promoting healthy behaviors in populations across the life course. Graduates are prepared to design and evaluate public health interventions and have expertise in a variety of theoretical and substantive perspectives for conducting research within systems of the family, health and education, workplace and community. Active faculty research provide students the opportunity to work on community-based prevention research.

**Fully Offered At:**

- Kent Campus

**Accreditation**

The Ph.D. degree in Public Health is accredited by the Council on Education For Public Health (CEPH).

**Admission Requirements**

- Master’s degree in a related discipline from an accredited college or university for unconditional admission
- Minimum 3.000 graduate GPA on a 4.000 point scale for unconditional admission
- Official transcript(s)
- GRE score or other standardized graduate admission exam with a quantitative component<sup>1</sup>
- Résumé
- Goal statement
- Three letters of recommendation
- Interview with faculty
- English language proficiency - all international students must provide proof of English language proficiency (unless they meet specific exceptions) by earning one of the following:
  - Minimum 587 TOEFL PBT score (paper-based version)
  - Minimum 94 TOEFL IBT score (Internet-based version)
  - Minimum 82 MELAB score
  - Minimum 7.0 IELTS score
  - Minimum 65 PTE score
  - Minimum 120 Duolingo English Test score

For more information about graduate admissions, please visit the Graduate Studies admission website. For more information on international admission, visit the Office of Global Education’s admission website.

<sup>1</sup> GRE scores may be waived as determined by graduate coordinator.

**Program Learning Outcomes**

Graduates of this program will be able to:

1. Explain public health history, philosophy and values
2. Identify the core functions of public health and the 10 Essential Services<sup>16</sup>
3. Explain the role of quantitative and qualitative methods and sciences in describing and assessing a population’s health
4. List major causes and trends of morbidity and mortality in the US or other community relevant to the school or program

5. Discuss the science of primary, secondary and tertiary prevention in population health, including health promotion, screening, etc.
6. Explain the critical importance of evidence in advancing public health knowledge
7. Explain effects of environmental factors on a population’s health
8. Explain biological and genetic factors that affect a population’s health
9. Explain behavioral and psychological factors that affect a population’s health
10. Explain the social, political and economic determinants of health and how they contribute to population health and health inequities
11. Explain how globalization affects global burdens of disease
12. Explain an ecological perspective on the connections among human health, animal health and ecosystem health (eg, One Health)

**Program Requirements**

**Major Requirements**

Code	Title	Credit Hours
<b>Prerequisites</b>		
BST 52019	BIOSTATISTICS IN PUBLIC HEALTH	4
EHS 52018	ENVIRONMENTAL HEALTH CONCEPTS IN PUBLIC HEALTH	3
EPI 52017	FUNDAMENTALS OF PUBLIC HEALTH EPIDEMIOLOGY	3
HPM 52016	PUBLIC HEALTH ADMINISTRATION	3
<b>Major Requirements</b>		
BST 83014	APPLIED REGRESSION ANALYSIS OF PUBLIC HEALTH DATA	3
EPI 72028	METHODS OF EVIDENCE BASED PUBLIC HEALTH	3
EPI 73027	BIOLOGICAL BASIS OF PUBLIC HEALTH	3
SBS 73020	ADVANCED METHODS IN PREVENTION SCIENCE	3
Dissertation Requirement, choose from the following (based on concentration): <sup>1</sup>		30
EPI 80199	DISSERTATION I	
HPM 80199	DISSERTATION I	
SBS 80199	DISSERTATION I	
<b>Concentrations</b>		
Choose from the following:		36
Epidemiology		
Health Policy and Management		
Prevention Science		
Minimum Total Credit Hours:		91

<sup>1</sup> Each doctoral candidate, upon admission to candidacy, must register for Dissertation I for a total of 30 credit hours. It is expected that a doctoral candidate will continuously register for Dissertation I, and thereafter Dissertation II, each semester, until all requirements for the degree have been met.

**Epidemiology Concentration Requirements**

Code	Title	Credit Hours
<b>Concentration Requirements</b>		
BST 83012	SURVIVAL ANALYSIS IN PUBLIC HEALTH	3

BST 83013	EXPERIMENTAL DESIGNS IN PUBLIC HEALTH RESEARCH	3
EPI 73026	DESIGN AND IMPLEMENTATION OF HEALTH SURVEYS	3
EPI 73034	LONGITUDINAL DATA ANALYSIS	3
EPI 83016	PRINCIPLES OF EPIDEMIOLOGIC RESEARCH	3
Content-related Electives, choose from the following: <sup>1</sup>		21
EPI 73029	PUBLIC HEALTH SURVEILLANCE SYSTEMS	
EPI 73033	ENVIRONMENTAL EPIDEMIOLOGY	
EPI 80195	SPECIAL TOPICS IN EPIDEMIOLOGY	
EPI 80198	DIRECTED RESEARCH IN EPIDEMIOLOGY	
Minimum Total Credit Hours:		36

<sup>1</sup> Content-related elective courses should be selected by the student with a faculty advisor, depending upon the student's research interest. It may occur within the College of Public Health or in other disciplines outside the college.

### Health Policy and Management Concentration Requirements

Code	Title	Credit Hours
<b>Concentration Requirements</b>		
EPI 73026	DESIGN AND IMPLEMENTATION OF HEALTH SURVEYS	3
or EPI 83017	EPIDEMIOLOGICAL ANALYSIS	
HPM 72015	EMERGING ISSUES IN PUBLIC HEALTH POLICY AND MANAGEMENT	3
HPM 72030	GRANT WRITING IN PUBLIC HEALTH	3
HPM 73021	HEALTH CARE FINANCE	3
HPM 73022	STRATEGIC MANAGEMENT OF PUBLIC HEALTH ORGANIZATIONS	3
HPM 73031	PUBLIC HEALTH POLICY ANALYSIS	3
HPM 80198	DIRECTED RESEARCH IN HEALTH POLICY AND MANAGEMENT	3
HPM 81000	PUBLIC HEALTH LAW AND REGULATION	3
Content Related Electives <sup>1</sup>		12
Minimum Total Credit Hours:		36

<sup>1</sup> Content-related elective courses should be selected by the student with a faculty advisor, depending upon the student's research interest. It may occur within the College of Public Health or in other disciplines outside the college.

### Prevention Science Concentration Requirements

Code	Title	Credit Hours
<b>Concentration Requirements</b>		
SBS 73018	THEORIES OF PREVENTION SCIENCE I	3
SBS 73019	THEORY PREVENTION SCIENCE II	3
SBS 73020	ADVANCED METHODS IN PREVENTION SCIENCE	3
SBS 80100	EMERGING ISSUES IN PREVENTION SCIENCE	3
SBS 80198	DIRECTED RESEARCH IN PREVENTION SCIENCE	3
SBS 83010	QUALITATIVE METHODS FOR PUBLIC HEALTH RESEARCH	3
Concentration Electives, choose from the following:		6

BST 83013	EXPERIMENTAL DESIGNS IN PUBLIC HEALTH RESEARCH	
EPI 73026	DESIGN AND IMPLEMENTATION OF HEALTH SURVEYS	
HPM 72030	GRANT WRITING IN PUBLIC HEALTH	
Content-related Electives <sup>1</sup>		12
Minimum Total Credit Hours:		36

<sup>1</sup> Content-related elective courses should be selected by the student with a faculty advisor, depending upon the student's research interest. It may occur within the College of Public Health or in other disciplines outside the college.

## Public Health - Undergraduate Certificate

**College of Public Health**  
 131 Moulton Hall  
 Kent Campus  
 330-672-6500  
 publichealth@kent.edu  
 www.kent.edu/publichealth

### Description

The Public Health undergraduate certificate integrates key aspects of preventing disease, prolonging life and promoting health through the organized efforts and informed choices of society, organizations, communities and individuals. The certificate program is aimed at students who are interested in gaining exposure to the field of public health, who do not intend to pursue a bachelor's degree or who already hold a bachelor's or associate degree and wish to broaden their knowledge of public health. Certificate graduates have an understanding of emerging issues in public health, the social and behavioral aspects to preventing disease, environmental health concepts, the changing U.S. health care system and the monitoring of diseases in the community through applied public health research.

### Fully Offered At:

- Online
- Kent Campus

The university affirmatively strives to provide educational opportunities and access to students with varied backgrounds, those with special talents and adult students who graduated from high school three or more years ago.

**Freshman Students on the Kent Campus:** The freshman admission policy on the Kent Campus is selective. Admission decisions are based upon the following: cumulative grade point average, ACT and/or SAT scores, strength of high school college preparatory curriculum and grade trends. The Admissions Office at the Kent Campus may defer the admission of students who do not meet admissions criteria but who demonstrate areas of promise for successful college study. Deferred applicants may begin their college coursework at one of seven regional campuses of Kent State University. For more information on admissions, including additional requirements for some academic programs, visit the admissions website for new freshmen.

**Freshman Students on the Regional Campuses:** Kent State campuses at Ashtabula, East Liverpool, Geauga, Salem, Stark, Trumbull and Tuscarawas, as well as the Regional Academic Center in Twinsburg, have open enrollment admission for students who hold a high school diploma, GED or equivalent.

**English Language Proficiency Requirements for International Students:** All international students must provide proof of English language proficiency (unless they meet specific exceptions) by earning a minimum 525 TOEFL score (71 on the Internet-based version), minimum 75 MELAB score, minimum 6.0 IELTS score or minimum 48 PTE score, or by completing the ESL level 112 Intensive Program. For more information on international admission, visit the Office of Global Education's admission website.

**Transfer, Transitioning and Former Students:** For more information about admission criteria for transfer, transitioning and former students, please visit the admissions website.

## Program Requirements

### Certificate Requirements

Code	Title	Credit Hours
<b>Certificate Requirements</b>		
PH 10001	INTRODUCTION TO PUBLIC HEALTH	3
PH 10002	INTRODUCTION TO GLOBAL HEALTH (DIVG)	3
PH 20001	ESSENTIALS OF EPIDEMIOLOGY	3
PH 30002	INTRODUCTORY BIostatISTICS	3
PH 30005	SOCIAL AND BEHAVIORAL SCIENCE THEORIES IN PUBLIC HEALTH	3
PH 30033	PUBLIC HEALTH POLICY AND DECISION-MAKING <sup>1</sup>	3
Minimum Total Credit Hours:		18

<sup>1</sup> Students in the Bachelor of Science in Nursing degree may substitute NURS 40045 for PH 30033.

### Graduation Requirements

Minimum Certificate GPA	Minimum Overall GPA
3.000	2.000

- Students must declare themselves as a certificate candidate prior to completing half of the courses.
- Students must complete a minimum of 15 credits at Kent State University.

## College of the Arts

### College of the Arts

111 Cartwright Hall  
Kent Campus  
330-672-2760  
collegeofthearts@kent.edu  
www.kent.edu/artscollege

### Academic Advising Offices

134 Cartwright Hall

Kent Campus  
330-672-2760  
www.kent.edu/artscollege/students/advising

## Introduction

The College of the Arts uses its distinctive and innovative resources in the visual, performing, and design arts to transform students' lives through the arts and to engage local and global communities to imagine, create and transform the world. Our studios, exhibitions, performance spaces and lecture halls offer real world experiences in which students learn and refine skills and put theory into practice. Students work side-by-side with faculty and professionals and create, conduct research and promote art, music, theatre, dance and fashion. Outreach to the larger community is manifested through exhibitions, performances, internships and experiential learning.

## Departments and Schools

- School of Art
- School of Fashion Design and Merchandising
- School of Music
- School of Theatre and Dance

## Undergraduate Programs

- Art Education - B.A.
- Art History - B.A.
- Dance - B.F.A.
- Dance Studies - B.A.
- Fashion Design - B.A.
- Fashion Design - B.F.A.
- Fashion Merchandising - B.S.
- Music - B.A.
- Music - B.M.
- Music Education - B.M.
- Music Technology - B.S.
- Musical Theatre - B.F.A.
- Studio Art - B.A.
- Studio Art - B.F.A.
- Theatre Design, Technology and Production - B.F.A.
- Theatre Studies - B.A.

## Minors

- Accessories
- Art History
- Arts Entrepreneurship
- Audio Recording
- Ceramics
- Costume Design and Technology
- Dance
- Drawing
- Fashion Media
- Glass
- Jewelry, Metals and Enameling
- Jazz Studies
- Lighting Design and Technology



- Music
- Music Technology
- Painting
- Print Media and Photography
- Scene Design
- Scenic Technology
- Sculpture and Expanded Media
- Textiles
- Theatre and Social Change
- Theatre Management
- Theatre Performance
- Theatre Sound
- World Music

## Graduate Programs

- Acting for the Returning Professional - M.F.A.
- Art Education - M.A.
- Art History - M.A.
- Conducting - M.M.
- Ethnomusicology - M.A.
- Fashion Industry Studies - M.F.I.S.
- Music Composition - M.A.
- Music Education - M.M.
- Music Education - Ph.D.
- Music Theory - M.A.
- Music Theory—Composition - Ph.D.
- Performance - M.M.
- Studio Art - M.A.
- Studio Art - M.F.A.
- Theatre Design and Technology - M.F.A.

## College of the Arts Faculty

### School of Art Faculty

- Bukowski, Marie D. (2017), Professor
- Buntin, Phillip D. (2006), Associate Professor, M.F.A., University of Connecticut, 2002
- Chishty, Mahwish (2016), Assistant Professor, M.F.A., University of Maryland, 2008
- Commito, Gianna E. (2005), Professor, M.F.A., University of Iowa, 2003
- Dorff, Juliann B. (1999), Senior Lecturer, M.A., Kent State University, 1998
- Ebanks, Davin (2005), Assistant Professor, M.F.A., Kent State University, 2010
- Farnsworth, Isabel (1997), Associate Professor, M.F.A., Stanford University, 1995
- Garcia, Janice L. (2019), Assistant Professor, M.F.A., University of Wisconsin, Madison, 2018
- Gasper-Hulvat, Marie (2013), Assistant Professor, Ph.D., Bryn Mawr College, 2012
- Hoepfner-Poling, Linda A. (1986), Associate Professor, Ph.D., Kent State University, 2005
- Johnson, Peter C. (2015), Associate Professor, M.F.A., Penn State University, 2003

- Kan, Koon-Hwee (2003), Associate Professor, Ed.D., University of Illinois-Urbana, 2004
- Kessler, Eli (2019)
- Kuebeck, Andrew (2017), Assistant Professor, M.F.A., Indiana University, Bloomington, 2011
- Lessman-Moss, Janice (1981), Professor, M.F.A., University of Michigan, Ann Arbor, 1981
- Loderstedt, Michael J. (1982), Professor, M.F.A., Kent State University, 1985
- McMahon, Taryn (2013), Assistant Professor, M.A., University of Iowa, 2010
- McWhorter, Jack E. (1989), Professor, M.A., Kent State University, 1983
- Medicus, Gustav F. (1989), Associate Professor, Ph.D., Indiana University, Bloomington, 1992
- Myers, Andrea (2015), Assistant Professor, M.F.A., School of Art Institute of Chicago, 2006
- Polo, Darice M. (2004), Associate Professor, M.F.A., University at Albany, SUNY, 1999
- Powell, Shawn K. (2018), Assistant Professor, M.F.A., City University of NY, Hunter College, 2009
- Reischuck, Albert W. (1990), Senior Lecturer, M.A., Kent State University, 1991
- Roll, Melanie R. (2001), Lecturer, M.A., Kent State University, 2014
- Schatz, Mark K. (2010), Assistant Professor, M.F.A., University of Texas, Austin, 2005
- Summers, Michelle M. (2019), Assistant Professor
- Underwood, Joseph L. (2017), Assistant Professor
- Vande Zande, Robin S. (2001), Professor
- Warner, John-Michael H. (2015), Assistant Professor, Ph.D., University of Arizona, 2015
- Yi, Hye-Shim (2019), Assistant Professor

### School of Fashion Design and Merchandising Faculty

- Arnett, Joanne M. (2011), Assistant Professor, M.F.A., Kent State University, 2013
- Benitez, Margarita (2010), Associate Professor, M.F.A., School of the Art Institute of Chicago, 2008
- Bhaduri, Gargi (2014), Assistant Professor, Ph.D., University of Missouri, Columbia, 2014
- Campbell, James R. (2009), Professor & Executive Director, Ph.D., University of California, Davis, 1996
- Campbell, Melissa C. (2010), Assistant Professor
- Carr, Elizabeth M. (2006), Senior Lecturer, B.F.A., Stephens College, 1978
- Chen, Chanjuan (2015), Assistant Professor, Ph.D., University of Wisconsin, Madison, 1993
- Cho, Buhyung (2019), Assistant Professor, Ph.D., North Carolina State University at Raleigh, 2019
- Copeland, Lauren E. (2017), Assistant Professor, Ph.D., Kansas State University, 2015
- Dancie, Paula K. (2003), Associate Lecturer, B.F.A., Miami University, 1980
- Ellington, Tameka N. (1995), Associate Professor, B.A., Kent State University, 1999

- Grieder, Trista L. (2010), Associate Lecturer, M.S., Purdue University Global, 2009
- Hahn, Kim H. (2011), Professor, Ph.D., University of Nebraska, Lincoln, 2005
- Hauck, William E. (2000), Assistant Professor, M.A., Northeastern Illinois University, 1981
- Hume, Sara E. (2009), Associate Professor and Museum Curator, M.A., Fashion Institute of Technology, 2003
- Hwang, Ja Young (2015), Assistant Professor, Ph.D., Iowa State University, 2013
- Hyun, Jonghan (2010), Assistant Professor, M.S., University of Missouri, Columbia, 2007
- Kim, Jihyun (2013), Professor, Ph.D., Iowa State University, 2004
- Krifa, Mourad (2017), Assistant Professor, Ph.D., Virginia Polytechnic Institute and State University, 2017
- LaPolla, Kendra L. (2013), Associate Professor, M.F.A., The Ohio State University, 2010
- Leslie, Catherine A. (2002), Professor, Ph.D., The Ohio State University, 2002
- LoMonaco-Benzing, Rachel E. (2018), Assistant Professor, M.S., University of Rhode Island, 2009
- Mehta, Archana (2001), Lecturer, B.A., Kent State University, 2002
- Ohrn, Linda M. (2004), Professor, M.F.A., University of North Texas, 2003
- Palomo-Lovinski, Noel N. (2001), Associate Professor, M.F.A., Kent State University, 2009
- Perrine, William C. (2006), Senior Lecturer, M.A., Western Michigan University, 2004
- Quevedo, Vincent (2008), Associate Professor, M.A., University of Nebraska, Lincoln, 2004
- Riewe, Krissi R. (2019), Assistant Professor
- Snyder, Sara E. (2008), Associate Professor, M.F.A., Kent State University, 2014
- Stanforth, Nancy F. (2000), Associate Professor, Ph.D., The Ohio State University, 1993
- Stone, Hillary M. (2012), Associate Professor, M.S., School of the Art Institute of Chicago, 1999
- Valenzda, Lisa A. (2009), Lecturer, M.A., Kent State University, 2015
- Wachowiak, Marjorie (2012), Associate Lecturer, M.S., Franklin University, 2011
- Yoder, Sue J. (2013), Assistant Professor, M.F.A., Syracuse University, 2008
- Chunn, Michael W. (1983), Professor, M.M., University of Illinois at Chicago, 1980
- Culver, Timothy M. (1999), Associate Professor, M.M., Kent State University, 2002
- Devore, Richard O. (1983), Associate Professor, Ph.D., University of Iowa, 1985
- Dorfman, Jay (2006), Associate Professor
- Dressler, Jane K. (1987), Professor, Ph.D., University of North Carolina, Greensboro, 1989
- Ferguson, Katherine E. (2019), Assistant Professor, Ph.D., Kent State University, 2017
- Fowler, Kishna (2015), Assistant Professor, M.M., Juilliard School of Music, 1995
- Fucci, Melissa D. (2002), Associate Professor, M.M., Kent State University, 2009
- Holm, Matthew D. (2017), Assistant Professor, Ph.D., Arizona State University, 2006
- Johnstone, Jennifer L. (2002), Assistant Professor, Ph.D., Kent State University, 2012
- Kim, Junggho (2017), Assistant Professor, Ph.D., Eastman School of Music, 2015
- Larmee, Kent D. (1989), Associate Professor, M.M., The Ohio State University, 1981
- Le, Andrew (2019), Associate Professor
- Lee, Donna (1999), Professor, Ph.D., The Johns Hopkins University, 1999
- Leyva, Jesse (2013), Associate Professor, Arizona State University, 2010
- MacPherson, Scott A. (2008), Professor, D.M.A., University of Southern California, 1992
- Marshall, Herbert D. (2019), Assistant Professor
- Matthews, Wendy K. (2018), Associate Professor, Ph.D., George Mason University, 2007
- McCloskey-Rechner, Diane L. (1991), Associate Professor
- McPherson, Eve (2011), Associate Professor, Ph.D., University of California, Santa Barbara, 2009
- Mitchell, David E. (2001), Associate Professor, M.M., University of Akron, 1989
- Mukuna, Kazadi W. (1989), Professor, Ph.D., University of California, Los Angeles, 1978
- Nanongkham, Priwan (1998), Assistant Professor, Ph.D., Kent State University, 2011
- Naxer, Meghan (2008), Assistant Professor, Ph.D., University of Oregon, 2016
- Noh, Hyunjoo G. (1998), Assistant Professor, Ph.D., Kent State University, 2013
- Nowakowski, Mark (2016), Assistant Professor, M.M., University of Colorado, Boulder, 2006
- Resta, Craig M. (2008), Associate Professor, Ph.D., University of Maryland, University College, 2008
- Roberts, Adam (2018), Assistant Professor, Ph.D., Harvard University, 2010
- Robinson, Cathy M. (2003), Assistant Professor
- Robinson, Keith H. (2003), Assistant Professor
- Seachrist, Denise A. (1988), Professor, Ph.D., Kent State University, 1993

## School of Music Faculty

- Albrecht, Theodore J. (1992), Professor, Ph.D., University of North Texas, 1975
- Albrecht, Joshua D. (2019), Assistant Professor
- Anderson, Ian (2015), Assistant Professor, M.F.A., Middle Tennessee State University, 2009
- Bagwell, Dawn M. (2011), Lecturer, M.M., Kent State University, 2012
- Berg, Marla (2009), Assistant Professor, M.M., Cleveland Institute of Music, 1983
- Birch, Sebastian A. (2002), Associate Professor, Ph.D., Cleveland Institute of Music, 1997
- Brown, Dana A. (1984), Associate Professor, M.M., Kent State University, 1986

- Selvaggio, Robert (2010), Associate Professor, M.M., Manhattan School of Music, 1995
- Shahriari, Andrew C. (1993), Associate Professor, M.M., Kent State University, 2001
- Sundet, Danna S. (2002), Professor, M.M., Kent State University, 2002
- Tiffe, Janine L. (2011), Assistant Professor, Ph.D., Florida State University, 2015
- Vardi, Amitai (2012), Assistant Professor, M.M., Cleveland Institute of Music, 2002
- Vaughn, Erin M. (2006), Lecturer, M.M., Kent State University, 2015
- Venesile, Christopher J. (2010), Associate Professor
- White, Jay G. (2011), Professor, University of Maryland, College Park, 2005
- Zakany, Joanna P. (2017), Assistant Professor, B.M., Cleveland Institute of Music, 2006

## School of Theatre and Dance Faculty

- Bauer, Kerry J. (2014), Assistant Professor, M.F.A., Ohio University, 1995
- Black, Maryann P. (2002), Assistant Professor, M.F.A., Kent State University, 2007
- Black, Jennifer (2019), Assistant Professor, 2019
- Brown, Courtney (2014), Associate Professor, M.F.A., University of Southern Mississippi, 2008
- Campbell, Sharon S. (1989), Associate Professor, M.F.A., The Ohio State University, 1982
- Crawford-Spinelli, John R. (1988), Professor & College Dean, Ed.D., Temple University, 1989
- Drashner, Nicholas D. (2015), Assistant Professor, M.F.A., University of California, San Diego, 2012
- Fritsche, Amy (2013), Associate Professor, M.F.A., San Diego State University, 2010
- Honesty, Tamara L. (2016), Assistant Professor, M.F.A., West Virginia University, 1996
- Humes, Thomas W. (2019), Assistant Professor
- Hurley, Paul (2018), Assistant Professor, M.F.A., University of Delaware, 2007
- Huya, Natalie J. (2003), Associate Lecturer, M.A., Villanova University, 2001
- Karpanty, Kimberly A. (1995), Professor, M.F.A., Arizona State University, 2003
- Keenan, Grace A. (2004), Assistant Professor, M.F.A., Penn State University, 2012
- Kent, Therese J. (1991), Professor, M.F.A., Michigan State University, 1987
- Kildow, Eric S. (2015), Assistant Professor, M.F.A., Savannah College of Art and Design, 2009
- King, Gregory (2016), Assistant Professor, Southern Methodist University, 2010
- Korecki, Jennifer S. (2012), Assistant Professor, M.M., Kent State University, 1996
- Kurahashi, Yuko (2001), Professor, Ph.D., Indiana University, Bloomington, 1996
- Meredith, Catherine E. (2019), Assistant Professor, M.F.A., Hollins University, 2011
- Nadon, Daniel R. (1993), Professor, Ph.D., University of Colorado, Boulder, 1993
- Pauna, Steven R. (2013), Associate Professor, M.F.A., Kent State University, 2000
- Polanco, Fabio J. (2009), Associate Professor, M.F.A., Case Western Reserve University, 1997
- Rockland, Jeffrey M. (2015), Associate Professor, M.F.A., University of California, Irvine, 1992
- Seo, Jakyung (2009), Associate Professor, M.F.A., University of Illinois-Urbana, Champaign, 2004
- Souza, Michelle H. (2019), Assistant Professor
- Stillings, Cynthia R. (1992), Professor & Interim Graduate Dean & Associate Dean, M.F.A., University of Wisconsin, Madison, 1988
- Swoboda, Jonathan F. (2008), Associate Professor, M.M., University of Nebraska, Omaha, 1997
- Van Baars, Frans E. (1993), Associate Professor & School Director, M.F.A., Kent State University, 2002
- Verlezza, Barbara A. (2002), Associate Professor, M.F.A., Northern Illinois University, 2005
- Weaver, James A. (2007), Assistant Professor

## College of the Arts

### College of the Arts (CA)

#### CA 10195 SPECIAL TOPICS IN THE COLLEGE OF THE ARTS 1-5 Credit Hours

(Repeatable for credit) This program, administered by the dean, is intended to encourage interdisciplinary study, to cover areas not treated adequately in the standard course and to make available promptly the new and significant experience of the faculty. Requests for the scheduling of these courses are made by faculty members or students to the sponsoring school or to the dean. The schools concerned clear the proposed course with the Curriculum Committee of the college.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 1-5 lecture

**Grade Mode:** Standard Letter

#### CA 20000 PERFORMING ARTS I 3 Credit Hours

An inter-arts course introducing expressive materials, representative literature and historical contexts of major dance, music and theatre styles with appropriate reference to other art forms.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

#### CA 20001 PERFORMING ARTS II 3 Credit Hours

Continuation of Performing Arts I.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**CA 20003 SPEAKER SERIES IN ARTS ENTREPRENEURSHIP 1 Credit Hour**

Explores entrepreneurship in the arts disciplines based on the experience of a broad range of artists and arts entrepreneurs. Guest speakers will share their experiences, career paths, successful strategies and career challenges.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 1 lecture

**Grade Mode:** Standard Letter

**CA 20295 SPECIAL TOPICS IN THE COLLEGE OF THE ARTS 1-5 Credit Hours**

(Repeatable for credit) This program, administered by the dean, is intended to encourage interdisciplinary study, to cover areas not treated adequately in the standard course and to make available promptly the new and significant experience of the faculty. Requests for the scheduling of these courses are made by faculty members or students to the sponsoring school or to the dean. The schools concerned clear the proposed course with the Curriculum Committee of the college.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 1-5 lecture

**Grade Mode:** Standard Letter

**CA 30395 SPECIAL TOPICS IN THE COLLEGE OF THE ARTS 1-5 Credit Hours**

(Repeatable for credit) This program, administered by the dean, is intended to encourage interdisciplinary study, to cover areas not treated adequately in the standard course and to make available promptly the new and significant experience of the faculty. Requests for the scheduling of these courses are made by faculty members or students to the sponsoring school or to the dean. The schools concerned clear the proposed course with the Curriculum Committee of the college.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 1-5 lecture

**Grade Mode:** Standard Letter

**CA 31300 MUSIC CAREER DEVELOPMENT AND ENTREPRENEURSHIP 2 Credit Hours**

This course includes a study of music entrepreneurship and the attributes of successful musicians including creating a project, financing a project, and marketing a project for understanding of career options in various music fields. This course mixes theory with practice and challenges the student to apply concepts and principles to real world situations.

**Prerequisite:** Music, Music Education or Music Technology major; and junior standing.

**Schedule Type:** Laboratory, Lecture, Combined Lecture and Lab

**Contact Hours:** 1 lecture, 2 lab

**Grade Mode:** Standard Letter

**CA 40493 VARIABLE TITLE WORKSHOP IN THE COLLEGE OF THE ARTS 1-5 Credit Hours**

(Repeatable for credit) Workshop setting dealing with topics within the College of the Arts.

**Prerequisite:** None.

**Schedule Type:** Workshop

**Contact Hours:** 1-5 other

**Grade Mode:** Satisfactory/Unsatisfactory

**CA 40495 SPECIAL TOPICS IN THE COLLEGE OF THE ARTS 1-5 Credit Hours**

(Repeatable for credit) This program, administered by the dean, is intended to encourage interdisciplinary study, to cover areas not treated adequately in the standard course and to make available promptly the new and significant experience of the faculty. Requests for the scheduling of these courses are made by faculty members or students to the sponsoring school or to the dean. The schools concerned clear the proposed course with the Curriculum Committee of the college.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 1-5 lecture

**Grade Mode:** Standard Letter

**CA 41495 SPECIAL TOPICS IN THE COLLEGE OF THE ARTS 1-5 Credit Hours**

(Repeatable for credit) This program, administered by the dean, is intended to encourage interdisciplinary study, to cover areas not treated adequately in the standard course, and to make available promptly the new and significant experience of the faculty. Requests for the scheduling of these courses are made by faculty members or students to the sponsoring school or to the dean. The school concerned clears the proposed course with the College Curriculum Committee.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 1-5 lecture

**Grade Mode:** Satisfactory/Unsatisfactory

## School of Art

### Art (ART)

**ART 10022 2D COMPOSITION 3 Credit Hours**

This course is a basic introduction to flat pictorial composition. Students will explore the basic principles of design and the application of elements (line, shape, value, texture, and color) to the two-dimensional surface. Students will learn to work with traditional materials as well as new technology. In addition to developing technical proficiency with a variety of materials and tools, emphasis will be placed on visual literacy and critical thinking skills throughout this course. All work (preliminary and final) must be retained for the duration of the semester and beyond as required.

**Prerequisite:** None.

**Schedule Type:** Studio

**Contact Hours:** 6 other

**Grade Mode:** Standard Letter

**ART 10023 3D COMPOSITION 3 Credit Hours**

Course serves as the introductory three-dimensional experience, focusing on fundamental principles, elements and strategies of visual organization. Focus is on creative problem-solving using a variety of approaches and materials, and favors non-equipment intensive assignments. Students develop critical thinking and practical skills relating to three-dimensional form and space. This foundation-level course prepares students for subsequent study within all the visual arts.

**Prerequisite:** None.

**Schedule Type:** Studio

**Contact Hours:** 6 other

**Grade Mode:** Standard Letter

**ART 10024 DIGITAL MEDIA 3 Credit Hours**

Introduces concepts, tools, software and guided experiences necessary for creative integration of digital skills and concepts into art practices and art research.

**Prerequisite:** Major in Art Education or Art History or Studio Art; and freshman or sophomore standing.

**Schedule Type:** Studio

**Contact Hours:** 6 other

**Grade Mode:** Standard Letter

**ART 30001 COMMON REVIEW 1 Credit Hour**

It provides an introduction to professional visual arts practices as well as a candid assessment of a student's emerging strengths. This formative review of digital portfolios, physical art work, and student writing by a panel of School of Art faculty members is intended to assist students in deciding on concentration(s) and degree program prior to enrollment in upper-division courses. Before enrolling in this course, students should have completed the prerequisites below, as well as any two of the following: ARTS 14060, ARTS 24002, ARTS 24010, ARTS 24040, ARTS 24051, ARTS 24061, ARTS 25300, ARTS 25400, ARTS 25600, ARTS 25700 (another two of these may be taken concurrently in the semester in which registering for this course).

**Prerequisite:** ART 10022, ART 10023, ART 10024, ARTS 14000, ARTS 14001 and ARTH 22007; and special approval.

**Schedule Type:** Studio

**Contact Hours:** 2 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**ART 30692 EXPERIENTIAL LEARNING IN THE VISUAL ARTS (ELR) 1-3 Credit Hours**

(Repeatable for maximum 6 credit hours) An undergraduate, experience-based learning activity carried out in a visual arts setting. Emphasis is on the goals of connecting ideas, concepts and skills developed in coursework to applications in new or different contexts, demonstrating how this experience has broadened students' understanding of their discipline, and reflection on significance of the experience. Learning contract required.

**Prerequisite:** A major in the School of Art; junior or senior standing; and special approval of faculty sponsor.

**Schedule Type:** Field Experience

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**Attributes:** Experiential Learning Requirement

**ART 40007 ARTS ENGAGEMENT: INTERPRETING FOR A COMMUNITY (WIC) 3 Credit Hours**

Development of a reflective and mindful approach to understanding and supporting the arts through articulating and communicating the experiences and meanings people construct from engaging with the arts.

**Prerequisite:** Major in the College of the Arts; and senior standing.

**Schedule Type:** Seminar

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Writing Intensive Course

**ART 40008 PROFESSIONAL PRACTICES IN VISUAL ARTS (WIC) 3 Credit Hours**

Introduction to the concerns and practices of the professional artist/craftsperson.

**Prerequisite:** Major in Studio Art; and senior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Writing Intensive Course

**ART 40092 FIELD EXPERIENCE TRAVEL STUDY IN ART (ELR) 1-3 Credit Hours**

(Repeatable for maximum 6 credit hours) Travel-based field experience in the visual arts at site(s) away from the university. Involves two or more visual arts disciplines and direct observation of works and experience of culture in context. May involve research, creative activity, presentation and-or written reflection as appropriate to site and goals of course.

**Prerequisite:** None.

**Schedule Type:** Field Experience

**Contact Hours:** 1-3 lecture

**Grade Mode:** Satisfactory/Unsatisfactory

**Attributes:** Experiential Learning Requirement

**ART 41093 VARIABLE TITLE WORKSHOP IN ART 1-6 Credit Hours**

(Repeatable for a total of 18 credit hours) (Cross-listed with ART 51093) Topics varies per course offering.

**Prerequisite:** Special approval.

**Schedule Type:** Workshop

**Contact Hours:** 1-6 other

**Grade Mode:** Satisfactory/Unsatisfactory

**ART 50092 FIELD EXPERIENCE TRAVEL STUDY IN ART 1-3 Credit Hours**

(Repeatable for maximum 6 credit hours) (Cross-listed with ART 40092) Travel-based field experience in the visual arts at site(s) away from the university. Involves two or more visual arts disciplines and direct observation of works and experience of culture in context. May involve research, creative activity, presentation and-or written reflection as appropriate to site and goals of course.

**Prerequisite:** Major in Art Education, Art History or Studio Art; and Graduate standing.

**Schedule Type:** Field Experience

**Contact Hours:** 1-3 lecture

**Grade Mode:** Standard Letter

**ART 51093 VARIABLE TITLE WORKSHOP IN ART 1-6 Credit Hours**

(Repeatable for credit) (Cross-listed with ART 41093) Topics vary per course offering.

**Prerequisite:** Graduate standing.

**Schedule Type:** Workshop

**Contact Hours:** 1-6 other

**Grade Mode:** Satisfactory/Unsatisfactory

**ART 67199 M.A.THESIS I 2-6 Credit Hours**

Thesis students must register for a minimum of 6 hours, 2 to 6 hours in a single semester distributed over several semesters if desired.

**Prerequisite:** Graduate standing.

**Schedule Type:** Masters Thesis

**Contact Hours:** 2-6 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**ART 67299 M.A.THESIS II 2 Credit Hours**

(Repeatable for credit) Thesis students must continue registration each semester until all degree requirements are met.

**Prerequisite:** ART 67199; and graduate standing.

**Schedule Type:** Masters Thesis

**Contact Hours:** 2 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP



**ART 69199 M.F.A. THESIS I 2-6 Credit Hours**

Thesis students must register for a total of 6 credit hours, 2 to 6 credit hours in a single semester distributed over several semesters if desired.

**Prerequisite:** Graduate standing.

**Schedule Type:** Masters Thesis

**Contact Hours:** 2-6 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**ART 69299 M.F.A. THESIS II 2 Credit Hours**

Thesis students must continue registration each semester until all degree requirements are met.

**Prerequisite:** ART 69199; and graduate standing.

**Schedule Type:** Masters Thesis

**Contact Hours:** 2 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**Art Education (ARTE)****ARTE 31001 ART EDUCATION: FOUNDATIONS AND CONCEPTS ELEMENTARY 3 Credit Hours**

An introduction to art education concepts. Emphasis on child development and on teaching the expressive and responsive dimensions of art in the early grades. Eleven field clinical hours are associated with this course.

**Prerequisite:** Minimum 2.500 overall GPA; major in Art Education; and sophomore standing.

**Schedule Type:** Studio

**Contact Hours:** 6 other

**Grade Mode:** Standard Letter

**ARTE 31005 SPECIAL TOPICS: ART EDUCATION- 2-4 Credit Hours**

(Repeatable for credit) Content varies per course offering.

**Prerequisite:** Special approval.

**Schedule Type:** Lecture

**Contact Hours:** 2-4 lecture

**Grade Mode:** Standard Letter-IP

**ARTE 31092 ART EDUCATION :TEACHING PRACTICUM (ELR) 3 Credit Hours**

A teaching experience for applying art education concepts. Analysis of instructional problems emphasized. Fifty-four field and/or clinical hours are associated with this course.

**Prerequisite:** ARTE 31001; and minimum 2.500 overall GPA.

**Schedule Type:** Lecture, Practical Experience

**Contact Hours:** 2 lecture, 3 other

**Grade Mode:** Standard Letter

**Attributes:** Experiential Learning Requirement

**ARTE 31096 INDIVIDUAL STUDY ART EDUCATION 2-10 Credit Hours**

(Repeatable for credit) Additional study in areas of a student's choice in consultation with adviser.

**Prerequisite:** Special approval.

**Schedule Type:** Individual Investigation

**Contact Hours:** 2-10 other

**Grade Mode:** Standard Letter-IP

**ARTE 41002 ART EDUCATION: FOUNDATIONS AND CONCEPTS - SECONDARY (ELR) 3 Credit Hours**

An examination of relationships between content, materials and strategies for teaching art to students in grades 7-12 and students with special needs. Nine field and/or clinical hours are associated with this course.

**Prerequisite:** ARTE 31004; and minimum 2.500 overall GPA.

**Schedule Type:** Practical Experience, Studio

**Contact Hours:** 7 other

**Grade Mode:** Standard Letter

**Attributes:** Experiential Learning Requirement

**ARTE 41004 PRE-KINDERGARTEN-12 DESIGN EDUCATION 3 Credit Hours**

(Slashed with ARTE 51004) Students develop lessons that address environment design, communication design, product design and interactive design, as well as conduct research methods and use materials that are appropriate for students in elementary and secondary schools. Students learn the design process and design thinking, adapted specifically for the context of PreK-12 education. Assignments are created around design issues that integrate with other subject areas, have relevance to young students' lives and connect to the national and Ohio content standards.

**Prerequisite:** None.

**Schedule Type:** Studio

**Contact Hours:** 6 other

**Grade Mode:** Standard Letter

**ARTE 41009 ART EDUCATION MAJOR REVIEW 1 Credit Hour**

Examination of student's knowledge, proficiency and ability to apply concepts in art and art education.

**Prerequisite:** Minimum 2.500 overall GPA.

**Pre/corequisite:** ARTE 41002 and ARTE 41192.

**Schedule Type:** Studio

**Contact Hours:** 3 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**ARTE 41092 FIELD EXPERIENCE:TRAVEL STUDY IN ART EDUCATION (ELR) 1-3 Credit Hours**

(Repeatable for credit) (Cross-listed with ARTE 51092) Travel-based study/field experience in art education at a site or sites away from Kent State University.

**Prerequisite:** Major in Art Education.

**Schedule Type:** Field Experience

**Contact Hours:** 1-3 other

**Grade Mode:** Satisfactory/Unsatisfactory

**Attributes:** Experiential Learning Requirement

**ARTE 41095 SPECIAL TOPICS IN ART EDUCATION 1-3 Credit Hours**

(Slashed with ARTE 51095) (Repeatable for credit) Upper-division course whose content changes in accordance with the interest and competence of faculty.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 1-3 lecture

**Grade Mode:** Standard Letter

**ARTE 41096 INDIVIDUAL STUDY-ART EDUCATION 1-6 Credit Hours**

(Repeatable for credit) Additional study in areas of students' choice in consultation with adviser.

**Prerequisite:** Special approval.

**Schedule Type:** Individual Investigation

**Contact Hours:** 1-6 other

**Grade Mode:** Standard Letter-IP

**ARTE 41192 ART EDUCATION: FIELD EXPERIENCE (ELR) (WIC) 3 Credit Hours**

(Slashed with ARTE 51192) A planning and teaching experience for teaching art in various settings; analysis of classroom situations emphasized. Fifty-four field and/or clinical hours are associated with this course.

**Prerequisite:** Minimum 2.500 overall GPA; and special approval.

**Pre/corequisite:** ARTE 41002.

**Schedule Type:** Practical Experience

**Contact Hours:** 9 other

**Grade Mode:** Standard Letter

**Attributes:** Experiential Learning Requirement, Writing Intensive Course

**ARTE 41525 ART EDUCATION:INQUIRY INTO PROFESSIONAL PRACTICE 3 Credit Hours**

(Slashed with ARTE 51525) Concepts and practices related to teaching art. Inquiry into art teaching as a professional practice. Emphasis is on teacher as critical disciplined investigator. Twenty-six field and/or clinical hours are associated with this course.

**Prerequisite:** ARTE 41009; and minimum 2.500 GPA; and special approval.

**Corequisite:** ARTE 41592.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ARTE 41592 ART EDUCATION:STUDENT TEACHING AND SEMINAR (ELR) 9 Credit Hours**

Provides a 14-week student teaching experience and associated seminar. See the student teaching section in the catalog. To be enrolled in student teaching, students must present to the clinical experience campus office official valid certification of Child Safety Training, approved Basic Life Support and ALICE training.

**Prerequisite:** ARTE 41009; and minimum 2.500 overall GPA; and special approval.

**Corequisite:** ARTE 41525.

**Schedule Type:** Practical Experience, Seminar

**Contact Hours:** 1 lecture, 24 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**Attributes:** Experiential Learning Requirement

**ARTE 51002 ART EDUCATION: FOUNDATIONS AND CONCEPTS SECONDARY 3 Credit Hours**

An examination of relationships among content, materials and strategies for teaching art to students in grades 7-12 and students with special needs. Nine field and or clinical hours are associated with this course.

**Prerequisite:** ARTE 31004; and minimum 2.750 overall GPA; and graduate standing.

**Schedule Type:** Field Experience, Lecture, Studio

**Contact Hours:** 3 lecture, 1 other

**Grade Mode:** Standard Letter

**ARTE 51004 PRE-KINDERGARTEN-12 DESIGN EDUCATION 3 Credit Hours**

(Slashed with ARTE 41004) Students develop lessons that address environment design, communication design, product design and interactive design, as well as conduct research methods and use materials that are appropriate for students in elementary and secondary schools. Students learn the design process and design thinking, adapted specifically for the context of PreK-12 education. Assignments are created around design issues that integrate with other subject areas, have relevance to young students' lives and connect to the national and Ohio content standards.

**Prerequisite:** Graduate standing.

**Schedule Type:** Studio

**Contact Hours:** 6 other

**Grade Mode:** Standard Letter

**ARTE 51092 FIELD EXPERIENCE:TRAVEL STUDY IN ART EDUCATION 1-3 Credit Hours**

(Repeatable for credit) (Cross-listed with ARTE 41092) Travel-based study/field experience in art education at a site or sites away from Kent State University.

**Prerequisite:** Major in Art Education; and graduate standing; and special approval.

**Schedule Type:** Field Experience

**Contact Hours:** 1-3 other

**Grade Mode:** Satisfactory/Unsatisfactory

**ARTE 51095 SPECIAL TOPICS IN ART EDUCATION 1-3 Credit Hours**

(Slashed with ARTE 41095) (Repeatable for credit) Upper-division course whose content changes in accordance with the interest and competence of faculty.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 1-3 lecture

**Grade Mode:** Standard Letter

**ARTE 51192 ART EDUCATION: FIELD EXPERIENCE 3 Credit Hours**

(Slashed with ARTE 41192) A planning and teaching experience for teaching art in various settings; analysis of classroom situations emphasized. Fifty-four field and or clinical hours are associated with this course.

**Prerequisite:** Graduate standing; and special approval.

**Pre/corequisite:** ARTE 41002 or ARTE 51002.

**Schedule Type:** Field Experience, Lecture

**Contact Hours:** 9 other

**Grade Mode:** Standard Letter

**ARTE 51525 ART EDUCATION:INQUIRY INTO PROFESSIONAL PRACTICE 3 Credit Hours**

Concepts and practices related to teaching art. Inquiry into art teaching as a professional practice. Emphasis is on teacher as critical disciplined investigator. Twenty six field and/or clinical hours are associated with this course.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ARTE 61095 SPECIAL TOPICS: ART EDUCATION 3 Credit Hours**

(Repeatable for credit) Topics vary per course offering to reflect the interests and specializations of faculty.

**Prerequisite:** ARTE 61101; and graduate standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ARTE 61096 INDIVIDUAL STUDY IN ART EDUCATION 1-6 Credit Hours**

(Repeatable for credit) Specialized study leading to the thesis in art education.

**Prerequisite:** ARTE 61101 and ARTE 61191 and ARTE 61291; and graduate standing; and special approval.

**Schedule Type:** Individual Investigation

**Contact Hours:** 1-6 other

**Grade Mode:** Standard Letter-IP

**ARTE 61101 RESEARCH SEMINAR IN ART EDUCATION 3 Credit Hours**

Specialized research seminar exploring methods and methodologies pertinent to research in art education.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Seminar

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ARTE 61191 SEMINAR IN ART EDUCATION I 3 Credit Hours**

(Repeatable for credit) Emphasizes the study of some prevailing themes in Pre K-12 art and design education. The curriculum focuses on the ideas of leading scholars and practicing teachers who have shaped practice in the field of art education within the context of the social, political and educational values and beliefs of the time.

**Prerequisite:** Major in Art Education; and graduate standing.

**Schedule Type:** Seminar

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**ARTE 61209 CANDIDACY REVIEW EXAMINATION:ART EDUCATION 1 Credit Hour**

A comprehensive review that undertakes a formal assessment of students' knowledge and understanding of concepts in art, education and art education.

**Prerequisite:** ARTE 61101; and graduate standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 1 lecture

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**ARTE 61291 SEMINAR IN ART EDUCATION II 3 Credit Hours**

(Repeatable for credit) A continuation of the topics addressed in ARTE 61191. The study of some prevailing themes in Pre K-12 art and design education. The curriculum focuses on the ideas of leading scholars and practicing teachers who have shaped practice in the field of art education within the context of the social, political and educational values and beliefs of the time.

**Prerequisite:** ARTE 61191; and graduate standing.

**Schedule Type:** Seminar

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**ARTE 61380 MASTER'S RESEARCH SEMINAR 2 Credit Hours**

(Repeatable twice for credit) Course guides the design of the proposal of the terminal project in the non-thesis track of the Master of Arts degree Art Education.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Seminar

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**ARTE 61398 MASTER'S PROJECT RESEARCH 1 Credit Hour**

(Repeatable for credit) Non-thesis option students undertake their project research and defend it before a committee.

**Prerequisite:** ARTE 61191 and ARTE 61291; and special approval.

**Schedule Type:** Research

**Contact Hours:** 1 other

**Grade Mode:** Standard Letter

**Art History (ARTH)****ARTH 12001 ART AS A WORLD PHENOMENON (KFA) 3 Credit Hours**

Course explore the essential qualities of art and the motivations for creating art in both Western and non-Western cultures through a thematic paradigm. By the end of the term, students have developed an enhanced ability to identify and describe various media and styles of artistic production, and have a basic knowledge of the major cultural periods and representative artworks in the history of world art. This course is designed for non-art majors, and will not fulfill requirements for School of Art majors.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Kent Core Fine Arts, Transfer Module Fine Arts

**ARTH 22006 ART HISTORY: ANCIENT AND MEDIEVAL ART (KFA) 3 Credit Hours**

Examination and interpretation of the major monuments of Western art and architecture from Paleolithic art to late Gothic art. The impact of non-Western traditions is included as appropriate.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Kent Core Fine Arts, TAG Arts and Humanities, Transfer Module Fine Arts

**ARTH 22007 ART HISTORY: RENAISSANCE TO MODERN ART (KFA) 3 Credit Hours**

Major movements and artists in painting, sculpture and allied arts of Europe and America from early Renaissance in Italy until the present day. The impact of non-Western traditions is included as appropriate.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Kent Core Fine Arts, TAG Arts and Humanities, Transfer Module Fine Arts

**ARTH 22020 ART OF AFRICA, OCEANIA AND THE AMERICAS (DIVG) (KFA) 3 Credit Hours**

Stylistic and historical investigation of the art and architecture of the traditional societies of Africa, Oceania and the Americas within an art historical and cross-cultural perspective.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Diversity Global, Kent Core Fine Arts, Transfer Module Fine Arts

**ARTH 32066 LATE MODERN ART 3 Credit Hours**

Painting, sculpture and allied arts in the United States and Europe, from 1940 to the present.

**Prerequisite:** ARTH 22007.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ARTH 42000 RESEARCH AND WRITING IN ART HISTORY (WIC) 3 Credit Hours**

Introduction to the basic techniques and resources for art history research. Provides assistance in the preparation of research papers and critical essays required by upper-division art history courses.

**Prerequisite:** Junior or senior standing.

**Corequisite:** Art history upper-division (ARTH 30000 or 40000 level) course.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Writing Intensive Course

**ARTH 42025 ART OF WEST AFRICA (DIVG) 3 Credit Hours**

(Cross-listed with ARTH 52025) Arts, crafts and architecture of the western Sudanic and Guinea Coast areas of West Africa, from prehistoric times to the present.

**Prerequisite:** Junior or senior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Diversity Global

**ARTH 42026 ART OF NIGERIA (DIVG) 3 Credit Hours**

(Cross-listed with ARTH 52026) Study of the arts, crafts and architecture of Nigeria, from prehistoric times to the present.

**Prerequisite:** Junior or senior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Diversity Global

**ARTH 42027 ART OF CENTRAL AFRICA (DIVG) 3 Credit Hours**

(Cross-listed with ARTH 52027) Comparative study of the arts, crafts and architecture of Central Africa, from prehistoric times to the present.

**Prerequisite:** Junior or senior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Diversity Global

**ARTH 42031 GREEK ARCHAEOLOGY AND ART 3 Credit Hours**

(Cross-listed with CLAS 41401)(Slashed with ARTH 52031 and CLAS 51401) Introduction to archaeology of the Greek world with emphasis on recent discoveries and their impact on the study of Greek art, architecture and sculpture through the Hellenistic period.

**Prerequisite:** Junior or senior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ARTH 42032 ROMAN ARCHAEOLOGY AND ART 3 Credit Hours**

(Cross-listed with CLAS 41402)(Slashed with ARTH 52032 and CLAS 51402) Introduction to archaeology of the Roman world with emphasis on recent discoveries and their impact on the study of Etruscan and Roman art, architecture and sculpture through the Imperial period.

**Prerequisite:** Junior or senior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ARTH 42036 MEDIEVAL ART 3 Credit Hours**

(Cross-listed with ARTH 52036) Emphasis on major period of Medieval art (Byzantine, Carolingian, Ottonian, Romanesque and Gothic) treating iconographic themes and styles in a variety of media.

**Prerequisite:** Junior or senior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ARTH 42039 GOTHIC ART, 12TH TO 15TH CENTURIES 3 Credit Hours**

(Cross-listed with ARTH) An examination of the development of European Gothic art from the 12th century to the 15th century. Emphasis on the ties to contemporary philosophical and literary developments.

**Prerequisite:** ARTH 22006 and ARTH 22007.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ARTH 42041 ITALIAN RENAISSANCE ART 3 Credit Hours**

(Cross-listed with ARTH 52041) Study of development of major themes in Italian art from 1400 until about 1550, emphasizing achievements of the masters and analyzing major ideas and theories of the period.

**Prerequisite:** Junior or senior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ARTH 42042 NORTHERN RENAISSANCE ART 3 Credit Hours**

(Cross-listed with ARTH 52042) Study of stylistic and iconographic questions and technique in Northern panel painting, as well as other arts in Northern Europe.

**Prerequisite:** Junior or senior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ARTH 42043 THE HIGH RENAISSANCE AND MANNERISM IN ITALY 3 Credit Hours**

(Cross-listed with ARTH 52043) Covers late 15th century and 16th century painting, sculpture and architecture in Italy. Following discussion of the High Renaissance masters, students examine the works collectively known as the Mannerists. Course gives students a firm grounding in the manifold artistic activity of the 16th century.

**Prerequisite:** Junior or senior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ARTH 42044 VENETIAN RENAISSANCE ART 3 Credit Hours**

(Cross-listed with ARTH 52044) Course provides a survey of Venetian painting, sculpture and architecture from the late 1300's to the late 1500's. Upon completion students have a comprehension of the interrelationship of Venetian art with its unique environment and society.

**Prerequisite:** Junior or senior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ARTH 42045 ITALIAN ART FROM GIOTTO TO BERNINI 3 Credit Hours**

(Slashed with ARTH 52045) Course explores the development of art and architecture in Italy from the late Middle Ages to the High Renaissance period. Through an in-depth analysis of the art and history of these periods, students develop an understanding of Italy's role in the overall development of Western civilization. Particular emphasis is given to Florentine Art.

**Prerequisite:** Junior or senior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ARTH 42046 BAROQUE ART OF THE 17TH CENTURY 3 Credit Hours**

(Slashed with ARTH 52046) Study of the origins of Baroque art in Italy and its spread throughout Flanders, the Netherlands, France and Spain.

**Prerequisite:** Junior or senior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ARTH 42051 EUROPEAN ART AND IDEAS: 1750-1900 3 Credit Hours**

(Slashed with ARTH 52051) Selected studies in late 18th-century and 19th-century British, French, German and Spanish art and architecture within the broader context of Western culture and ideas.

**Prerequisite:** Junior or senior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ARTH 42061 EARLY 20TH-CENTURY ART 3 Credit Hours**

(Cross-listed with ARTH 52061) Study of painting, sculpture, architecture and allied arts in Europe from 1880 to 1940.

**Prerequisite:** ARTH 22007.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ARTH 42062 PICASSO 3 Credit Hours**

Course provides a survey of the art of Picasso, starting with his childhood works. Students gain a better understanding of Picasso's pivotal importance to 20th century art and various influences that cultivated his incredible creativity.

**Prerequisite:** Junior or senior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ARTH 42063 AMERICAN ART:EUROPEAN ROOTS 3 Credit Hours**

(Cross-listed with ARTH 52063) Examines the role of European roots in the formation of American art. The complex issues and identities artists faced as a result of the expatriate experience are addressed.

**Prerequisite:** Junior or senior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ARTH 42064 DADA AND SURREALISM 3 Credit Hours**

Using a roughly chronological approach, students examine the profound and lasting contributions made by the Dadaists and Surrealists, as well as other revolutionary modernists of the early 20th century who sought to escape the traditional and rational in art and thought with sincerity in spite of the often superficially simple or even sometimes nihilistic appearance of their efforts. Through an analysis of selected works from this period and their relevant precursors, an attempt will be made to define the progressive ideas which led to the dismantling of previous standards and the rise of an anti-art spirit which continues today in various guises. Primary documents are considered regularly to provide students with a wider appreciation for the variety of media (e.g., film, theater, typography) and the issues and characters involved.

**Prerequisite:** Junior or senior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ARTH 42067 ART OF THE 1960S 3 Credit Hours**

(Cross-listed with ARTH 52067) A survey of the major movement of the sixties decade, with primary emphasis on the United States.

**Prerequisite:** Junior or senior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ARTH 42071 HISTORY OF PRINTS 3 Credit Hours**

Chronological survey of printmaking (engraving, etching, lithography, etc.) From 1400 to the present emphasizing its technical and stylistic evolution.

**Prerequisite:** Junior or senior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ARTH 42076 HISTORIES AND THEORIES OF PHOTOGRAPHY AND VISUAL CULTURE 3 Credit Hours**

(Slashed with ARTH 52076) Photography is embedded in every aspect of visual culture. As such, this course is a socio-political and socio-cultural study of photography. This course focuses on major developments in the field, including photography's advent, 19th-century commodity, scientific manipulations, 20th century Modernism and postwar aesthetics. Course also sketches political, cultural and theoretical developments and pertinent debates regarding emergence, significance, interpretation, perception and resonance. In addition to manifold moments in histories and theories of photography, course examines critical approaches to the history of art, including ecocriticism, feminism, critical race studies, queer studies and borderlands studies. While effort will be made to survey photography's history, this is not taxonomy of related movements and moments.

**Prerequisite:** ARTH 32066.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ARTH 42078 HISTORY OF THE DECORATIVE AND APPLIED ARTS 3 Credit Hours**

(Cross-listed with ARTH 52078) Historical and critical examination of decorative and applied arts and their relationship to the Western societies which produced them.

**Prerequisite:** ARTH 22006 and ARTH 22007.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter



**ARTH 42091 ART HISTORY SEMINAR 3 Credit Hours**

(Repeatable for credit) Open format course with topics announced in advance. Designed to allow detailed examination of selected topics.

**Prerequisite:** Junior standing; and special approval of instructor.

**Schedule Type:** Seminar

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**ARTH 42092 MUSEUM INTERNSHIP (ELR) 1-6 Credit Hours**

(Repeatable for credit) (Slashed with ARTH 52092) A supervised internship in a regional museum emphasizing the practical application of museological principles and practices.

**Prerequisite:** Junior or senior standing.

**Schedule Type:** Practical Experience

**Contact Hours:** 3-18 other

**Grade Mode:** Standard Letter-IP

**Attributes:** Experiential Learning Requirement

**ARTH 42095 SPECIAL TOPICS:ART HISTORY 1-3 Credit Hours**

(Repeatable for credit) (Cross-listed with ARTH 52095) Topics vary in accordance with the interest and competence of faculty.

**Prerequisite:** Junior or senior standing.

**Schedule Type:** Lecture

**Contact Hours:** 1-3 lecture

**Grade Mode:** Standard Letter

**ARTH 42096 INDIVIDUAL INVESTIGATION:ART HISTORY 1-3 Credit Hours**

(Repeatable for credit) (Cross-listed with ARTH 52096) Directed independent study with art history faculty.

**Prerequisite:** Junior or senior standing.

**Schedule Type:** Individual Investigation

**Contact Hours:** 1-3 other

**Grade Mode:** Standard Letter-IP

**ARTH 42098 RESEARCH IN ART HISTORY (ELR) 1-3 Credit Hours**

(Repeatable for credit) (Slashed with ARTH 52098) Independent research open only to undergraduate students in art history or related fields (by special permission only).

**Prerequisite:** Special approval.

**Schedule Type:** Research

**Contact Hours:** 3-9 other

**Grade Mode:** Standard Letter

**Attributes:** Experiential Learning Requirement

**ARTH 42192 FIELD EXPERIENCE:TRAVEL STUDY IN ART HISTORY (ELR) 1-3 Credit Hours**

(Repeatable for credit) (Cross-listed with ARTH 52192) Travel-based study/field experience in art history to and at a site or sites away from Kent State University. The primary benefit will be the observation and study of works of art first hand, in addition to the presentation and discussion of historical and contextual factors. Time is made available for individual investigation of specific works sites.

**Prerequisite:** Major in Art History.

**Schedule Type:** Field Experience

**Contact Hours:** 1-3 other

**Grade Mode:** Satisfactory/Unsatisfactory

**Attributes:** Experiential Learning Requirement

**ARTH 52025 ART OF WEST AFRICA 3 Credit Hours**

(Cross-listed with ARTH 42025) Arts, crafts and architecture of the Western Sudanic and Guinea Coast areas of West Africa from prehistoric times to the present.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ARTH 52026 ART OF NIGERIA 3 Credit Hours**

(Cross-listed with ARTH 42026) Study of the arts, crafts and architecture of Nigeria from prehistoric times to present.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ARTH 52027 ART OF CENTRAL AFRICA 3 Credit Hours**

(Cross-listed with ARTH 42027) Study of the arts, crafts and architecture of Central Africa from prehistoric times to present.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ARTH 52031 GREEK ARCHAEOLOGY AND ART 3 Credit Hours**

(Cross-listed with CLAS 51401)(Slashed with ARTH 42031 and CLAS 41401) Introduction to archaeology of the Greek world with emphasis on recent discoveries and their impact on the study of Greek art, architecture and sculpture through the Hellenistic period.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ARTH 52032 ROMAN ARCHAEOLOGY AND ART 3 Credit Hours**

(Cross-listed with CLAS 51402)(Slashed with ARTH 42032 and CLAS 41402) Introduction to archaeology of the Roman world. Emphasis on discoveries and impact on the study of Etruscan and Roman art, architecture and sculpture through Imperial period.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ARTH 52036 MEDIEVAL ART 3 Credit Hours**

(Cross-listed with ARTH 42036) Emphasis on major periods of Medieval art (Byzantine, Carolingian, Ottonian, Romanesque and Gothic), treating iconographic themes and styles in a variety of media.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ARTH 52038 HAND MADE BOOKS AND ART 3 Credit Hours**

Course examines the history of (predominantly Western) books and reading; of books as locus of several types of visual art (decoration, illustration, vision, commentary); and of visual strategies for a range of communication tasks in selected books from the Middle Ages onward. Students are prepared to understand the variety and efficacy of approaches that have been used by those producing books by hand in the past and at present.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ARTH 52039 GOTHIC ART:12TH TO 15TH CENTURIES 3 Credit Hours**

An examination of the development of European Gothic art from the 12th to the 15th centuries. Students research specific works of art. Emphasis on contemporary historical philosophical and literary figures.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ARTH 52041 ITALIAN RENAISSANCE ART 3 Credit Hours**

(Cross-listed with ARTH 42041) Study of development of major themes in Italian art from 1400 until about 1550, emphasizing achievements of the masters and analyzing major ideas and theories of the period.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ARTH 52042 NORTHERN RENAISSANCE ART 3 Credit Hours**

(Cross-listed with ARTH 42042) Study of stylistic and iconographic questions and technique in northern panel painting, as well as other arts in Northern Europe.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ARTH 52043 THE HIGH RENAISSANCE AND MANNERISM IN ITALY 3 Credit Hours**

(Cross-listed with ARTH 42043) Covers late 15th century and 16th century painting, sculpture and architecture in Italy. Following discussion of the High Renaissance masters students examine the works collectively known as the Mannerists. Course gives students a firm grounding in the manifold artistic activity of the 16th century.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ARTH 52044 VENETIAN RENAISSANCE ART 3 Credit Hours**

(Cross-listed with ARTH 42044) Course provides a survey of Venetian painting, sculpture and architecture from the late 1300's to the late 1500's. Upon completion students will have a comprehension of Venetian art with its unique environment and society.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ARTH 52045 ITALIAN ART FROM GIOTTO TO BERNINI 3 Credit Hours**

(Slashed with ARTH 42045) Course explores the development of art and architecture in Italy from the late Middle Ages to the High Renaissance period. Through an in-depth analysis of the art and history of these periods, students develop an understanding of Italy's role in the overall development of Western civilization. Particular emphasis is given to Florentine Art.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ARTH 52046 BAROQUE ART IN EUROPE 3 Credit Hours**

(Slashed with ARTH 42046) A study of the origins of Baroque art in Italy and its spread throughout Flanders, the Netherlands, France and Spain.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ARTH 52051 EUROPEAN ART, 1750-1900 3 Credit Hours**

(Cross-listed with ARTH 42051) Selected studies in late 18th-century and 19th-century painting, sculpture architecture and allied arts of England, France, Germany and Spain.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ARTH 52061 EARLY 20TH-CENTURY ART 3 Credit Hours**

(Cross-listed with ARTH 42061) A study of painting, sculpture, architecture and allied arts in Europe from 1880 to 1940.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ARTH 52062 PICASSO 3 Credit Hours**

Course provides a survey of the art of Picasso, starting with his childhood works. Students gain a better understanding of Picasso's pivotal importance to 20th century art and the various influences that cultivated his incredible creativity.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ARTH 52063 AMERICAN ART:EUROPEAN ROOTS 3 Credit Hours**

(Cross-listed with ARTH 42063) Examines the role of European roots in the formation of American art. The complex issues and identities artists faced as a result of the expatriate experience are addressed.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ARTH 52064 DADA AND SURREALISM 3 Credit Hours**

Using a roughly chronological approach, students examine the profound and lasting contributions made by the Dadaists and Surrealists, as well as other revolutionary modernists of the early 20th century who sought to escape the traditional and rational in art and thought with sincerity in spite of the often superficially simple or even sometimes nihilistic appearance of their efforts. Through an analysis of selected works from this period and their relevant precursors, an attempt will be made to define the progressive ideas which led to the dismantling of previous standards and the rise of an anti-art spirit which continues today in various guises. Primary documents are considered regularly to provide students with a wider appreciation for the variety of media (e.g., film, theater, typography) and the issues and characters involved.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ARTH 52066 LATE MODERN ART SINCE 1940 3 Credit Hours**

A study of painting, sculpture and allied arts in the United States and Europe from 1940 to the present.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ARTH 52067 ART OF THE 1960S 3 Credit Hours**

(Cross-listed with ARTH 42067) A survey of major movements of the sixties decade, with primary emphasis on the United States.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ARTH 52076 HISTORIES AND THEORIES OF PHOTOGRAPHY AND VISUAL CULTURE 3 Credit Hours**

(Slashed with ARTH 42076) Photography is embedded in every aspect of visual culture. As such, this course is a socio-political and socio-cultural study of photography. This course focuses on major developments in the field, including photography's advent, 19th-century commodity, scientific manipulations, 20th century Modernism and postwar aesthetics. Course also sketches political, cultural and theoretical developments and pertinent debates regarding emergence, significance, interpretation, perception and resonance. In addition to manifold moments in histories and theories of photography, course examines critical approaches to the history of art, including ecocriticism, feminism, critical race studies, queer studies and borderlands studies. While effort will be made to survey photography's history, this is not taxonomy of related movements and moments.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ARTH 52078 HISTORY OF DECORATIVE AND APPLIED ARTS 3 Credit Hours**

(Cross-listed with ARTH 42078) Historical and critical examination of decorative and applied arts and their relationship to Western societies which produced them.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ARTH 52092 MUSEUM INTERNSHIP 1-6 Credit Hours**

(Repeatable for credit) (Slashed with ARTH 42092) A supervised internship in a regional museum emphasizing the practical application of museological principles and curatorial practices.

**Prerequisite:** Graduate standing.

**Schedule Type:** Practical Experience

**Contact Hours:** 3-18 other

**Grade Mode:** Standard Letter-IP

**ARTH 52095 SPECIAL TOPICS:ART HISTORY 1-3 Credit Hours**

(Repeatable for credit) (Cross-listed with ARTH 42095) Topics vary in accordance with the interest and competence of faculty.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 1-3 lecture

**Grade Mode:** Standard Letter

**ARTH 52096 INDIVIDUAL INVESTIGATION:ART HISTORY 1-3 Credit Hours**

(Repeatable for credit) (Slashed with ARTH 42096) Directed independent study with art history faculty.

**Prerequisite:** Graduate standing.

**Schedule Type:** Individual Investigation

**Contact Hours:** 3-9 other

**Grade Mode:** Standard Letter-IP

**ARTH 52098 RESEARCH IN ART HISTORY 1-3 Credit Hours**

(Repeatable for credit) (Slashed with ARTH 42098) Independent research open only to graduate students in art history or related fields.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Research

**Contact Hours:** 3-9 other

**Grade Mode:** Standard Letter-IP

**ARTH 52192 FIELD EXPERIENCE:TRAVEL STUDY IN ART HISTORY 1-3 Credit Hours**

(Repeatable for credit) (Slashed with ARTH 42192) Travel-based study/field experience in art history to and at a site or sites away from Kent State University. The primary benefit will be the observation and study of works of art first hand, in addition to the presentation and discussion of historical and contextual factors. Time is made available for individual investigation of specific works sites.

**Prerequisite:** Major in Art History; and graduate standing.

**Schedule Type:** Field Experience

**Contact Hours:** 3 other

**Grade Mode:** Satisfactory/Unsatisfactory

**ARTH 62000 ART HISTORY RESEARCH METHODS AND RESOURCES 2 Credit Hours**

This course provides necessary foundational skills and resources in order to conduct research in art history.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**ARTH 62071 HISTORY OF PRINTS 3 Credit Hours**

A chronological survey of printmaking (engraving, etching, lithography, etc.) From 1400 to the present emphasizing its technical and stylistic evolution.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ARTH 62091 ART HISTORY SEMINAR 3 Credit Hours**

(Repeatable for maximum 9 credit hours) Open format course with topics announced in advance. Designed to allow in-depth examination of selected topics.

**Prerequisite:** Graduate standing.

**Schedule Type:** Seminar

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**ARTH 62095 SPECIAL TOPICS: ART HISTORY 3 Credit Hours**

(Repeatable for credit) Discussion and lecture course whose topic changes in accordance with the interest and competence of the faculty. Special focus on problems and issues in the different areas of the discipline.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ARTH 62096 SELECTED PROBLEMS: ART HISTORY 3 Credit Hours**

(Repeatable for maximum 9 credit hours) Course content changes each semester according to the topic, entailing discussion and lectures on specific problems issues and areas in art history.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Individual Investigation

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**ARTH 62098 RESEARCH 1-15 Credit Hours**

(Repeatable for credit) Independent research.

**Prerequisite:** Master of Arts degree in Art History; and graduate standing.

**Schedule Type:** Research

**Contact Hours:** 1-15 other

**Grade Mode:** Standard Letter

**Art Studio Art (ARTS)****ARTS 14000 DRAWING I 3 Credit Hours**

Fundamental drawing and studio experiences; exploration of basic drawing ideas and media. Work produced in class must be retained for later portfolio presentation in ART 30001.

**Prerequisite:** None.

**Schedule Type:** Studio

**Contact Hours:** 6 other

**Grade Mode:** Standard Letter

**Attributes:** TAG Arts and Humanities

**ARTS 14001 DRAWING II 3 Credit Hours**

Continued practice in drawing with emphasis upon dimensional representation, pictorial structure and the breakdown of formal elements. Work produced in this class must be retained for later portfolio presentation in ART 30001.

**Prerequisite:** ARTS 14000.

**Schedule Type:** Studio

**Contact Hours:** 6 other

**Grade Mode:** Standard Letter

**ARTS 24002 DRAWING AS A STUDIO PRACTICE 3 Credit Hours**

An introduction to advanced concepts and ideas which enable the student to understand and professionally realize their drawings as a studio practice. Work produced in this course must be retained for later portfolio presentation in ART 30001.

**Prerequisite:** ARTS 14000 and ARTS 14001.

**Schedule Type:** Studio

**Contact Hours:** 6 other

**Grade Mode:** Standard Letter

**ARTS 24010 INTRODUCTION TO FINE ART PHOTOGRAPHY 3 Credit Hours**

Introductory studio/lecture course which introduces fine art photography with an aesthetic, contemporary approach. Students learn traditional and digital photographic image-making applications and the historical underpinnings of the photograph in modern art. Research paper and portfolio required. Work produced in this class must be retained for later portfolio presentation in ART 30001.

**Prerequisite:** None.

**Schedule Type:** Studio

**Contact Hours:** 6 other

**Grade Mode:** Standard Letter

**ARTS 24040 PRINTMAKING I 3 Credit Hours**

Course gives the beginning student an overview of basic printmaking techniques and an understanding of what a print is, its form in both unique and multiple formats, and how these function in culture.

Printmaking processes result in a rich array of pictorial possibilities and methodological approaches. Students are exposed to the basic techniques and concepts of relief, intaglio and monotype applications for printmaking.

**Prerequisite:** None.

**Schedule Type:** Studio

**Contact Hours:** 6 other

**Grade Mode:** Standard Letter

**ARTS 24051 INTRODUCTION TO SCULPTURAL PRACTICE 3 Credit Hours**

Course provides a firm grounding in the rudiments of sculpture and sculpture's expanding field. Drawing on historical, aesthetic and technical strategies of generating and understanding sculpture; students are guided toward the realization of three-dimensional form. Discussions of materials, processes and hands-on practice empower the student to move from concept to completed work, engendering a better understanding of how sculpture is situated within the context of culture and society at large. Students explore the formal properties and expressive potential of materials, including mold making and casting, wood, metal and experimental media. Readings, slide presentations, discussions and critiques help provide the vocabulary for such an understanding.

**Prerequisite:** None.

**Schedule Type:** Studio

**Contact Hours:** 6 other

**Grade Mode:** Standard Letter

**ARTS 24061 INTRODUCTION TO PAINTING 3 Credit Hours**

Acrylic-based media is used to introduce the fundamentals of building a painting, the development of a sophisticated painting vocabulary, and a confident understanding of color. Emphasis on observational painting from life through varied techniques, with an introduction to tools, processes and best studio practices. Work must be retained for later portfolio presentation in Art 30001.

**Prerequisite:** None.

**Schedule Type:** Studio

**Contact Hours:** 6 other

**Grade Mode:** Standard Letter

**ARTS 25300 TEXTILES: PATTERN 3 Credit Hours**

An introduction to the concepts and processes of constructed pattern including plaiting, and weaving. Off-loom and floor loom explorations will emphasize the relationship of form and structure in textile art. An emphasis is placed on the resourceful use of nontraditional or experimental materials.

**Prerequisite:** None.

**Schedule Type:** Studio

**Contact Hours:** 6 other

**Grade Mode:** Standard Letter

**ARTS 25400 CERAMICS I 3 Credit Hours**

Course introduces ceramics as an artistic medium, with focus on the handbuilding of clay objects using the pinch, coil and slab methods of construction.

**Prerequisite:** None.

**Schedule Type:** Studio

**Contact Hours:** 6 other

**Grade Mode:** Standard Letter

**Attributes:** TAG Arts and Humanities

**ARTS 25600 INTRODUCTION TO GLASS WORKING 3 Credit Hours**

Introduction to studio glass through technique and brief history. Both basic glass blowing and glass casting techniques and problems are covered.

**Prerequisite:** None.

**Schedule Type:** Studio

**Contact Hours:** 6 other

**Grade Mode:** Standard Letter

**ARTS 25700 INTRODUCTION TO JEWELRY METALS I 3 Credit Hours**

Introduction to basic jewelry and metalsmithing techniques including fabrication, forming and finishing. Emphasis on advancing design skills and critical analysis. Exposure to historical and contemporary works.

**Prerequisite:** None.

**Schedule Type:** Studio

**Contact Hours:** 6 other

**Grade Mode:** Standard Letter

**ARTS 25701 INTRODUCTION TO JEWELRY/METALS FOR NON-ART MAJORS 3 Credit Hours**

Introduction to basic jewelry and metalsmithing techniques including fabrication, forming and finishing. Emphasis on advancing design skills and critical analysis. Exposure to historical and contemporary works.

**Prerequisite:** Major that is not in the School of Art.

**Schedule Type:** Studio

**Contact Hours:** 5 other

**Grade Mode:** Standard Letter

**ARTS 34002 FIGURE DRAWING 3 Credit Hours**

(Repeatable for credit) Extensive studio practice of traditional and contemporary approaches to the human figure. Critical analysis of the figure from the Renaissance through postmodernism. Students work from a nude model.

**Prerequisite:** ARTS 24001 or ARTS 24002.

**Schedule Type:** Studio

**Contact Hours:** 6 other

**Grade Mode:** Standard Letter

**ARTS 34003 DRAWING: STRUCTURE AND EXPERIMENTATION 3 Credit Hours**

(Repeatable for credit) Extensive exploration of advanced drawing concepts and ideas as strategies for experimentation with process and materials.

**Prerequisite:** ARTS 24001 or ARTS 24002.

**Schedule Type:** Studio

**Contact Hours:** 6 other

**Grade Mode:** Standard Letter

**ARTS 34040 PRINTMAKING:INTERMEDIATE INTAGLIO 3 Credit Hours**

Continuation of ARTS 24040 emphasizing individually assigned problems in intaglio with introduction to color intaglio techniques.

**Prerequisite:** ART 10022 and ART 10024 and ARTS 24040.

**Schedule Type:** Studio

**Contact Hours:** 6 other

**Grade Mode:** Standard Letter

**ARTS 34041 SERIGRAPHY I 3 Credit Hours**

The initial presentation of fundamental concepts and processes pertaining to serigraphy. Course includes printing techniques and aesthetic considerations in the making of art.

**Prerequisite:** ART 10022 and ART 10024 and ARTS 24040.

**Schedule Type:** Studio

**Contact Hours:** 6 other

**Grade Mode:** Standard Letter

**ARTS 34042 LITHOGRAPHY I 3 Credit Hours**

Introduction to stone lithography. Techniques of drawing and printing crayon, tusche, transfer and color images and their relation to problems of drawing and composition. Prerequisite: ART 10022, ART 10024 and ARTS 24040

**Schedule Type:** Studio

**Contact Hours:** 6 other

**Grade Mode:** Standard Letter

**ARTS 34050 SCULPTURE: LIFE MODELING 3 Credit Hours**

(Repeatable for maximum 6 credit hours) Continuation of the study of the human figure in sculpture.

**Prerequisite:** ARTS 24051.

**Schedule Type:** Studio

**Contact Hours:** 6 other

**Grade Mode:** Standard Letter



**ARTS 34051 SCULPTURAL OBJECT 3 Credit Hours**

Course builds on ARTS 24051 with a greater emphasis on content, proficiency, technical expertise, craftsmanship and understanding of contemporary sculpture. Students explore the object in space, delineating issues of scale, materiality, representation, abstraction, metaphor and hybridity. Drawing on historical, aesthetic and technical strategies of generating and understanding sculpture, students are guided toward the realization of more sophisticated and complex ways of handling materials and incorporating meaning. Discussions of materials, processes and hands-on practice empower the student to move from concept to completed work, engendering a better understanding of how sculpture is situated within the context of culture and society at large. Readings, slide presentations, discussions and critiques help provide the vocabulary for such an understanding.

**Prerequisite:** ARTS 24051.

**Schedule Type:** Studio

**Contact Hours:** 6 other

**Grade Mode:** Standard Letter

**ARTS 34052 TIME ARTS 3 Credit Hours**

This interdisciplinary class investigates the fundamentals of time-based media and its intersection with sculptural practice. Students build on concepts from ARTS 24051 to gain a broader understanding of multiple methods of making including performance, video, site and situation-specific works, as well as the use of traditional sculptural materials. Discussions of materials, processes and hands-on practice empower the student to move from concept to completed work engendering a better understanding of how sculpture is situated within the contemporary art world. Readings, slide presentations, discussions and critiques help provide the vocabulary for such an understanding.

**Prerequisite:** ARTS 24051.

**Schedule Type:** Studio

**Contact Hours:** 6 other

**Grade Mode:** Standard Letter

**ARTS 34053 SITE AND INSTALLATION 3 Credit Hours**

This interdisciplinary course builds on concepts introduced in ARTS 24051, and expands on a variety of approaches in developing site-specific installations by considering the relationship between object/context, public/private, interior/exterior and urban/rural. Through the manipulation of materials, found objects and time-based media, students are introduced to concepts of space, intention, site and intervention through experimental approaches. Students further develop an understanding of material and context through in-depth readings, lectures and critical dialogue. Sculptural techniques, performance, photography and video art are covered and incorporated into the course. Studio time is supplemented by readings, lectures and site visits around campus.

**Prerequisite:** ARTS 24051.

**Schedule Type:** Studio

**Contact Hours:** 6 other

**Grade Mode:** Standard Letter

**ARTS 34061 INTERMEDIATE PAINTING 3 Credit Hours**

Continuation of painting from observation with an introduction to oil paints and mediums. Students will look outside of the still life at various subjects including spatial dynamics, the figure, and abstracted imagery. Introduction to oil painting tools, processes, and best studio practices

**Prerequisite:** ARTS 14060 or ARTS 24061.

**Schedule Type:** Studio

**Contact Hours:** 6 other

**Grade Mode:** Standard Letter

**ARTS 34062 PAINTING STRATEGIES: PROCESS AND CONTENT 3 Credit Hours**

This course focuses on conceptual prompts relative to contemporary issues to encourage a variety of processes and material approaches to making paintings. Students continue the idea of building a painting through the iterative process of making, analyzing, and editing their work throughout the semester. The painting is a live surface, a place to collect and record information, and this course insists that students consider a wide range of formal and conceptual choices to best address content. Each project will be initiated with rigorous research and further supported by exposure to visual examples of historic and contemporary painting, readings, written responses, seminar-style discussions, and numerous critiques of both in-progress and finished work.

**Prerequisite:** ARTS 24060 or ARTS 34061.

**Schedule Type:** Studio

**Contact Hours:** 6 other

**Grade Mode:** Standard Letter

**ARTS 34063 PAINTING STRATEGIES: IMAGE AND CONTENT 3 Credit Hours**

This course investigates various contemporary painting strategies through the use of images as source materials, with a strong emphasis on narrative. Moving away from direct observation and towards the abstraction of imagery, students will be asked to approach their practice through research, preliminary studies and sketches, and a self-driven investigation of the use of images to create concept. Various prompts will be assigned and are designed to provide students with a stronger understanding of the use of found, self-produced, or appropriated imagery as reference for their work, while helping each student build a direction for their painting practice. We will look to other mediums such as film, photography, collage, and advertising to inform the painted image and improve the reading of contemporary painting. We will look to other mediums to better contextualize the painted image in contemporary art.

**Prerequisite:** ARTS 24060 or ARTS 34061.

**Schedule Type:** Studio

**Contact Hours:** 6 other

**Grade Mode:** Standard Letter

**ARTS 35095 STUDIO ART: SPECIAL TOPICS 3 Credit Hours**

(Repeatable for credit) Specialized courses in studio art that focus on specific techniques and media.

**Prerequisite:** Special approval.

**Schedule Type:** Studio

**Contact Hours:** 6 other

**Grade Mode:** Standard Letter

**ARTS 35300 TEXTILES: DIMENSIONAL 3 Credit Hours**

An introduction to the development of unique sculptural objects in textile media. Students explore three-dimensional textile processes using the floor loom and various basketry techniques, including wrapping and coiling and off-loom weaving.

**Prerequisite:** Special approval.

**Schedule Type:** Studio

**Contact Hours:** 6 other

**Grade Mode:** Standard Letter

**ARTS 35301 TEXTILES: PRINT PATTERN 3 Credit Hours**

Focus is on the unique aspects of printing repeat designs on cloth. Screenprinted pattern - developed through manual techniques and digital design - is considered in relation to the surface and the flexible plane of cloth. The development of design, craft skills, and critical evaluation are emphasized in relation to art and industry applications.

**Prerequisite:** Special approval.

**Schedule Type:** Studio

**Contact Hours:** 6 other

**Grade Mode:** Standard Letter

**ARTS 35302 TEXTILES: FELTMAKING 3 Credit Hours**

An opportunity for the in-depth exploration of technical and aesthetic possibilities of this unique process. Layers and textures in two dimensions and processes for three-dimensional feltmaking are introduced and considered as an expressive vocabulary with potential as functional form. Dyeing of wool fleece plays a major role in the course.

**Prerequisite:** Special approval.

**Schedule Type:** Studio

**Contact Hours:** 6 other

**Grade Mode:** Standard Letter

**ARTS 35303 TEXTILES: TAPESTRY 3 Credit Hours**

An introduction to a variety of traditional pictorial tapestry, discontinuous weft faced techniques, to be executed on the frame loom and floor loom.

Both tapestry and carpet history are presented to reveal traditional processes, patterns, and images for inspiration in the creation of individual works. Dyeing will play a major role in the exploration.

**Prerequisite:** Special approval.

**Schedule Type:** Studio

**Contact Hours:** 6 other

**Grade Mode:** Standard Letter

**ARTS 35305 TEXTILES: ACCESSORIES - DESIGN AND PRODUCTION 3 Credit Hours**

Focus is on the design and production of textile accessories using the structural process of weaving. Texture, material, and color are critically and creatively considered in relation to the development of unique functional objects. Professional design objectives are presented.

**Prerequisite:** Special approval.

**Schedule Type:** Studio

**Contact Hours:** 6 other

**Grade Mode:** Standard Letter

**ARTS 35306 TEXTILES: SURFACE COLOR AND DESIGN 3 Credit Hours**

Introduction to coloring and patterning cloth through dyeing and resist techniques. Formal and conceptual aspects of surface design in relation to the flexible cloth plane are explored. Study of traditional historic and contemporary textile references provide a foundation for creative development.

**Prerequisite:** Special approval.

**Schedule Type:** Studio

**Contact Hours:** 6 other

**Grade Mode:** Standard Letter

**ARTS 35350 TEXTILES: DESIGN AND PRODUCTION 3 Credit Hours**

A basic introduction to the mechanics of designing and constructing patterned and dyed cloth on the floor loom. Learning to use the computer for the designing of woven pattern is an expectation of the course. This course may be beneficial for fashion and interior designers, as well as anyone interested in the design and craft of weaving.

**Prerequisite:** Special approval.

**Schedule Type:** Studio

**Contact Hours:** 6 other

**Grade Mode:** Standard Letter

**ARTS 35400 FUNCTIONAL APPROACHES TO CLAY 3 Credit Hours**

(Repeatable for credit) Continuation of ARTS 25400 emphasizing functional approaches to clay using the potters wheel and a variety of hand-building techniques.

**Prerequisite:** ARTS 25400.

**Schedule Type:** Studio

**Contact Hours:** 6 other

**Grade Mode:** Standard Letter

**ARTS 35401 SCULPTURAL APPROACHES IN CLAY 3 Credit Hours**

(Repeatable for credit) Continuation of ARTS 25400 emphasizing sculptural approaches to clay. This course may include explorations in three-dimensional form, the human figure, mold making, multiples and installation.

**Prerequisite:** ARTS 25400.

**Schedule Type:** Studio

**Contact Hours:** 6 other

**Grade Mode:** Standard Letter

**ARTS 35602 FLAMEWORKED GLASS 3 Credit Hours**

An investigation of techniques, tools, equipment and materials involved in glass lampworking processes. The course covers basic melting, shaping and blowing with a glass frameworking torch. Students will learn to create larger sculptural objects from modular components through glass "networking" and will explore more technical frameworking processes to become familiarized with glass as a sculptural material.

**Prerequisite:** None.

**Schedule Type:** Studio

**Contact Hours:** 6 other

**Grade Mode:** Standard Letter

**ARTS 35603 GLASS BLOWING 3 Credit Hours**

(Repeatable for credit) Further exploration of glass blowing techniques. Design, form, color and execution will be emphasized.

**Prerequisite:** ARTS 25600.

**Schedule Type:** Studio

**Contact Hours:** 6 other

**Grade Mode:** Standard Letter

**ARTS 35604 SCULPTURAL AND KILN-FORMED GLASS 3 Credit Hours**

(Repeatable for credit) An overview and exploration of sculptural and kiln-formed glass techniques. Casting, pattern making, mold making and cold construction will be covered. Design, form, content and technical execution and understanding operations of equipment are emphasized.

**Prerequisite:** ARTS 25600.

**Schedule Type:** Studio

**Contact Hours:** 6 other

**Grade Mode:** Standard Letter

**ARTS 35700 JEWELRY CONCEPTS AND TECHNIQUES 3 Credit Hours**

An in-depth exploration of jewelry making techniques such as casting, stone setting, mechanisms and fabrication. Conceptual development and design skills are emphasized. To gain a deeper understanding of the subject, historical and contemporary works are viewed and discussed.

**Prerequisite:** ART 10023 and ART 10024 and ARTS 25700.

**Schedule Type:** Studio

**Contact Hours:** 6 other

**Grade Mode:** Standard Letter

**ARTS 35701 METALSMITHING CONCEPTS AND TECHNIQUES 3 Credit Hours**

Course offers an in-depth exploration of hammerworking techniques such as raising, forging and shell forming. Conceptual development and design skills are emphasized. To gain a deeper understanding of the subject, historical and contemporary works are viewed and discussed.

**Prerequisite:** ART 10023 and ART 10024 and ARTS 25700.

**Schedule Type:** Studio

**Contact Hours:** 6 other

**Grade Mode:** Standard Letter

**ARTS 35702 ENAMELING CONCEPTS AND TECHNIQUES 3 Credit Hours**

An in-depth exploration of vitreous enameling techniques on two-dimensional surfaces. Porcelain enamel on steel is introduced. Conceptual development and design skills are emphasized. To gain a deeper understanding of the subject, historical and contemporary works are viewed and discussed.

**Prerequisite:** ARTS 25700 and ARTS 35700.

**Schedule Type:** Studio

**Contact Hours:** 6 other

**Grade Mode:** Standard Letter

**ARTS 35703 TEXTILE TECHNIQUES IN METAL 3 Credit Hours**

Course applies textile techniques such as weaving, crocheting, knitting and basketry to create jewelry and objects in metal. Emphasis is on innovative approach to traditional processes.

**Prerequisite:** ARTS 25700.

**Schedule Type:** Studio

**Contact Hours:** 6 other

**Grade Mode:** Standard Letter

**ARTS 44002 ADVANCED DRAWING FOR ALL DISCIPLINES 3 Credit Hours**

(Repeatable for credit) (Slashed with ARTS 54002) An advanced drawing course, open to all studio disciplines, with an emphasis on students pursuing individually conceived problems in close consultation one-on-one with faculty.

**Prerequisite:** ART 30001; and ARTS 24001 or ARTS 24002.

**Schedule Type:** Studio

**Contact Hours:** 6 other

**Grade Mode:** Standard Letter

**ARTS 44010 ADVANCED FINE ART PHOTOGRAPHY 3 Credit Hours**

Combined studio/lecture course offering more advanced, conceptual approaches to the contemporary applications of photographic imaging for artists. Students work with larger scale printing formats, more involved research and greater depth of involvement with the photographic medium.

**Prerequisite:** ARTS 24010 and ART 30001.

**Schedule Type:** Studio

**Contact Hours:** 6 other

**Grade Mode:** Standard Letter

**ARTS 44011 DIGITAL FINE ART PHOTOGRAPHY 3 Credit Hours**

(Slashed with ARTS 54011) Students develop their technical and conceptual skills in fine art digital photography, and develop a contemporary approach to working with the medium. Students explore various photographic and digital techniques, and form an awareness of such techniques in contemporary photography.

**Prerequisite:** Minimum C grade in ART 10022.

**Schedule Type:** Studio

**Contact Hours:** 5 other

**Grade Mode:** Standard Letter

**ARTS 44040 PRINTMAKING: ADVANCED INTAGLIO 3 Credit Hours**

Continuation of ARTS 34040 with special emphasis on color and photographic techniques intaglio.

**Prerequisite:** ARTS 34040 and ART 30001.

**Schedule Type:** Studio

**Contact Hours:** 6 other

**Grade Mode:** Standard Letter

**ARTS 44041 SERIGRAPHY II 3 Credit Hours**

Continuation of ARTS 34041 emphasizing individually assigned projects.

**Prerequisite:** ARTS 34041 and ART 30001.

**Schedule Type:** Studio

**Contact Hours:** 6 other

**Grade Mode:** Standard Letter

**ARTS 44042 LITHOGRAPHY II 3 Credit Hours**

Advanced investigation of lithography. Introduction to advanced digital and photo-mechanical approaches, in addition to continuation of drawing on stones and plates with crayon, tusche and transfers. Emphasis on color printing and the development of a cohesive body of work in lithography.

**Prerequisite:** ARTS 34042 and ART 30001.

**Schedule Type:** Studio

**Contact Hours:** 6 other

**Grade Mode:** Standard Letter

**ARTS 44043 ADVANCED PRINTMAKING 3 Credit Hours**

(Repeatable for maximum 9 credit hours) Advanced printmaking course with emphasis on students producing new, individually conceived visual works in printmaking in close consultation with faculty. Written proposal by students required at registration.

**Prerequisite:** ART 30001; and two courses from the following:

ARTS 34040, ARTS 34041, ARTS 34042, ARTS 44040, ARTS 44041, ARTS 44042.

**Schedule Type:** Studio

**Contact Hours:** 6 other

**Grade Mode:** Standard Letter

**ARTS 44045 ART OF THE BOOK 3 Credit Hours**

(Slashed with ARTS 54045) An introduction to artist's books. A variety of binding methods and strategies for creating art through alternative and traditional book forms are introduced. Students complete projects and develop a personal visual language through the book form.

**Prerequisite:** Minimum C grade in ART 10022.

**Schedule Type:** Studio

**Contact Hours:** 6 other

**Grade Mode:** Standard Letter

**ARTS 44051 ADVANCED SCULPTURAL PRACTICE 3 Credit Hours**  
 (Repeatable for credit) Course is self-directed, in which students create a series of sculptural works in consultation with the instructor and through on-going student lead presentations, discussions and in-progress and final critiques. Emphasis is on a creating a body of work over the semester that is informed by and demonstrates an awareness of contemporary practice in terms of approaches to content, form and presentation. Students can work with in a variety of ways: object making, installation, site-based and/or time-based approaches. Research and writing are emphasized. Readings, slide presentations, discussions and critiques help provide context and vocabulary for student development.  
**Prerequisite:** ART 30001 and ARTS 24051; and ARTS 34051 or ARTS 34052 or ARTS 34053.  
**Schedule Type:** Studio  
**Contact Hours:** 6 other  
**Grade Mode:** Standard Letter

**ARTS 44060 ADVANCED PAINTING: PRACTICE AND THEORY 3 Credit Hours**  
 (Repeatable for credit) Advanced painting course with an emphasis on pursuing individually conceived problems in close consultation with faculty.  
**Prerequisite:** ART 30001; and ARTS 24060 or ARTS 34061; and ARTS 34060 or ARTS 34062 or ARTS 34063.  
**Schedule Type:** Studio  
**Contact Hours:** 6 other  
**Grade Mode:** Standard Letter

**ARTS 44070 DIGITAL FABRICATION IN STUDIO ART 3 Credit Hours**  
 (Slashed with ARTS 54070) This course is an introduction to digital fabrication technologies as they relate to a studio practice. Mastery of software skills enables one to better explore object-making as a medium of personal expression. In addition to technical skills, the course will introduce relationships between form, subject matter, and content. Projects will include technical and conceptual problem solving, design lessons, object making and short student lead initiatives to connect to maker spaces and industries that can support future making. Instructor facilitated discussions between students will form a community of mutual learning.  
**Prerequisite:** None.  
**Schedule Type:** Studio  
**Contact Hours:** 6 other  
**Grade Mode:** Standard Letter

**ARTS 44096 INDIVIDUAL STUDY: STUDIO ART 1-6 Credit Hours**  
 (Repeatable for credit) Additional study in area of student's choice in consultation with advisor.  
**Prerequisite:** ART 30001; and a major in Studio Art; and special approval.  
**Schedule Type:** Individual Investigation  
**Contact Hours:** 2-12 other  
**Grade Mode:** Standard Letter

**ARTS 44098 RESEARCH IN STUDIO ART (ELR) 1-3 Credit Hours**  
 (Repeatable for credit) Studio research in the visual arts.  
**Prerequisite:** Junior or senior standing.  
**Schedule Type:** Research  
**Contact Hours:** 3-9 other  
**Grade Mode:** Standard Letter-IP  
**Attributes:** Experiential Learning Requirement

**ARTS 44192 INTERNSHIP OR PRACTICUM IN STUDIO ART (ELR) 1-6 Credit Hours**  
 (Repeatable for credit) (Slashed with ARTS 54192) An undergraduate, experience-based learning activity carried out in a visual arts setting. Emphasis is on the goals of connecting ideas, concepts, and skills developed in coursework to applications in new or different contexts, demonstrating how this experience has broadened students' understanding of their discipline, and reflection on the significance of the experience.  
**Prerequisite:** A major in the School of Art; junior or senior standing; and special approval of faculty sponsor.  
**Schedule Type:** Practical Experience  
**Contact Hours:** 3-18 other  
**Grade Mode:** Standard Letter-IP  
**Attributes:** Experiential Learning Requirement

**ARTS 45080 KENT BLOSSOM ART 1-6 Credit Hours**  
 (Repeatable for credit) (Slashed with ARTS 55080) Studio exploration of selected concepts in studio art: painting; drawing; sculpture and expanded media; print media and photography; ceramics; glass; jewelry, metals and enameling; textiles. Content varies with each section offered.  
**Prerequisite:** Special approval.  
**Schedule Type:** Studio  
**Contact Hours:** 2-12 other  
**Grade Mode:** Standard Letter-IP

**ARTS 45092 FIELD EXPERIENCE: TRAVEL STUDY IN STUDIO ART (ELR) 1-3 Credit Hours**  
 (Repeatable for credit) (Slashed with ARTS 55092) Travel-based study and field experience in studio art disciplines at a site at or away from Kent State University.  
**Prerequisite:** Major in Studio Art; and special approval.  
**Schedule Type:** Field Experience  
**Contact Hours:** 3-9 other  
**Grade Mode:** Satisfactory/Unsatisfactory  
**Attributes:** Experiential Learning Requirement

**ARTS 45095 SPECIAL TOPICS: STUDIO ART 1-6 Credit Hours**  
 (Repeatable for credit) (Cross-listed with ARTS 55095) Specialized courses in studio art that focus on specific techniques and media.  
**Prerequisite:** Special approval.  
**Schedule Type:** Studio  
**Contact Hours:** 2-12 other  
**Grade Mode:** Standard Letter

**ARTS 45098 SENIOR THESIS RESEARCH AND PROPOSAL (ELR) 1 Credit Hour**  
 (Repeatable for credit) Preparatory course, which acts as an exploratory period for students to develop their ideas - conceptually, thematically and materially - through research, writing and physical material studies. Upon successful completion, students may continue with ARTS 45099.  
**Prerequisite:** Major in Studio Art; senior standing; and special approval.  
**Schedule Type:** Research  
**Contact Hours:** 1.6 other  
**Grade Mode:** Satisfactory/Unsatisfactory-IP  
**Attributes:** Experiential Learning Requirement



**ARTS 45099 SENIOR THESIS EXHIBITION (ELR) 3 Credit Hours**

The course prepares students for the challenges of a creative professional practice in their chosen discipline. As the culmination of undergraduate studies, the course serves as a capstone experience for students in their chosen concentration. Provides students an opportunity to independently develop and create a body of work for exhibition and oral review with faculty. Requires the completion of an undergraduate thesis and professional caliber photo documentation of the exhibition.

**Prerequisite:** ART 30001; and special approval.

**Schedule Type:** Project or Capstone

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter-IP

**Attributes:** Experiential Learning Requirement

**ARTS 45300 TEXTILES: JACQUARD WEAVING 3 Credit Hours**

(Repeatable for maximum 6 credit hours) (Slashed with ARTS 55300) Introduction to digital design and production of jacquard woven cloth on state-of-the-art TC1 hand looms. The use of Pointcarré®, a specialized weave software and Photoshop® provides a foundation of professional design knowledge for application in a studio or industry context. Historic and contemporary examples are studied as a foundation to enhance individual exploration of this distinctive woven language for art and design.

**Prerequisite:** ARTS 35350.

**Schedule Type:** Studio

**Contact Hours:** 6 other

**Grade Mode:** Standard Letter

**ARTS 45301 TEXTILES: ADVANCED STUDIO 3 Credit Hours**

Structured time for individual investigations in textiles. Emphasis on self-designed study. Bi-weekly presentations of contemporary work in textiles and weekly discussions or critiques with open studio.

**Prerequisite:** ART 30001; and special approval.

**Schedule Type:** Studio

**Contact Hours:** 6 other

**Grade Mode:** Standard Letter

**ARTS 45304 TEXTILES: PICTORIAL WEAVING 3 Credit Hours**

(Slashed with ARTS 55304) Introduction to a range of weaving processes traditionally associated with the creation of figured or pictorial cloth. Techniques such as warp painting, supplementary weft and warp, pick-up doubleweave and tapestry are explored as a means of creating a well-composed art cloth. Textile history is presented as an important resource for the development of woven studies and individually conceived projects.

**Prerequisite:** Special approval.

**Schedule Type:** Studio

**Contact Hours:** 6 other

**Grade Mode:** Standard Letter

**ARTS 45307 TEXTILES: WEAVING AND COLOR 3 Credit Hours**

(Slashed with ARTS 55307) This course will provide students with an opportunity to explore numerous techniques that emphasize the interaction of color in relation to the unique interlacement process of weaving. Use of different looms (including the floor and frame) will provide the means to integrate color with patterns and image in the connection of warp and weft. Immersion dyeing will be introduced along with specialized direct dye application methods.

**Prerequisite:** Special approval.

**Schedule Type:** Studio

**Contact Hours:** 6 other

**Grade Mode:** Standard Letter

**ARTS 45400 ADVANCED CERAMICS 3 Credit Hours**

(Repeatable for credit) Individual problems in ceramics.

**Prerequisite:** ART 30001, ARTS 35400 and ARTS 35401.

**Schedule Type:** Studio

**Contact Hours:** 6 other

**Grade Mode:** Standard Letter

**ARTS 45600 ADVANCED GLASS WORKING 3 Credit Hours**

(Repeatable for credit) Individual exploration of sculptural and hot glass techniques. Design, form, content and execution strongly emphasized. Introduction to studio facility design, construction and maintenance.

**Prerequisite:** ART 30001, ARTS 35603 and ARTS 35604.

**Schedule Type:** Studio

**Contact Hours:** 5 other

**Grade Mode:** Standard Letter

**ARTS 45700 DESIGN AND PRODUCTION 3 Credit Hours**

Course prepares students to enter the marketplace by examining production processes for creating multiples, industrial applications and marketing. Traditional rendering techniques are taught as a method for communicating with clientele in the custom design market. Design skills are emphasized.

**Prerequisite:** ARTS 35700 and ARTS 35701.

**Schedule Type:** Studio

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**ARTS 45701 TABLEWARE 3 Credit Hours**

Course explores forms made for the table such as flatware, serving sets and containers. Traditional and experimental approaches are examined.

**Prerequisite:** ART 30001, ARTS 35700 and ARTS 35701.

**Schedule Type:** Studio

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**ARTS 45702 ADVANCED ENAMELING 3 Credit Hours**

Course offers advanced vitreous enameling techniques on two- and three-dimensional surfaces. Conceptual development and design skills are emphasized. To gain a deeper understanding of the subject, historical and contemporary works are viewed and discussed.

**Prerequisite:** ART 30001 and ARTS 35702.

**Schedule Type:** Studio

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**ARTS 45704 ADVANCED STUDIO JEWELRY METALS ENAMELING 3 Credit Hours**

(Repeatable for maximum 9 credit hours) Course offers structured time for individual investigations in jewelry, metalsmithing and enameling. Emphasis on self-directed study with frequent critiques and technical demos as needed. Regular viewing and discussion of historical and contemporary works.

**Prerequisite:** ART 30001, ARTS 35700 and ARTS 35701; and senior standing.

**Schedule Type:** Studio

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter



**ARTS 45705 CAD FOR JEWELRY 3 Credit Hours**

(Slashed with ARTS 55705) Students develop a set of comprehensive computer-aided design (CAD) skills to be utilized in a variety of studies such as sculpture design, jewelry making and many others. CAD skills are developed through the investigation of laser cutting, 3D modeling and project planning, and 3D printing. Mastery of these techniques enable students to better explore object-making as a medium of personal expression. Although there are many technical components to learn, the instructor also focuses on the relationship between form, subject matter and content. Software covered in this class includes Rhinoceros (3D modeling), Flamingo (endering), Adobe Illustrator (vector drawing) and Cubify (3D printing).

**Prerequisite:** ART 30001; and ARTS 25700 or ARTS 25701.

**Schedule Type:** Studio

**Contact Hours:** 6 other

**Grade Mode:** Standard Letter

**ARTS 54002 ADVANCED DRAWING FOR ALL DISCIPLINES 3 Credit Hours**

(Repeatable for credit) (Slashed with ARTS 44002) An advanced drawing course, open to all studio disciplines, with an emphasis on students pursuing individually conceived problems in close consultation one-on-one with faculty.

**Prerequisite:** Graduate standing.

**Schedule Type:** Studio

**Contact Hours:** 6 other

**Grade Mode:** Standard Letter

**ARTS 54011 DIGITAL FINE ART PHOTOGRAPHY 3 Credit Hours**

(Slashed with ARTS 44011) Students develop their technical and conceptual skills in fine art digital photography, and develop a contemporary approach to working with the medium. Students explore various photographic and digital techniques and form an awareness of such techniques in contemporary photography.

**Prerequisite:** Graduate standing.

**Schedule Type:** Studio

**Contact Hours:** 5 other

**Grade Mode:** Standard Letter

**ARTS 54045 ART OF THE BOOK 3 Credit Hours**

(Slashed with ARTS 44045) An introduction to artist's books. A variety of binding methods and strategies for creating art through alternative and traditional book forms are introduced. Students complete projects and develop a personal visual language through the book form.

**Prerequisite:** Master of Arts degree or Master of Fine Arts degree in the School of Art.

**Schedule Type:** Studio

**Contact Hours:** 6 other

**Grade Mode:** Standard Letter

**ARTS 54070 DIGITAL FABRICATION IN STUDIO ART 3 Credit Hours**

(Slashed with ARTS 44070) This course is an introduction to digital fabrication technologies as they relate to a studio practice. Mastery of software skills enables one to better explore object-making as a medium of personal expression. In addition to technical skills, the course will introduce relationships between form, subject matter, and content. Projects will include technical and conceptual problem solving, design lessons, object making, and short student lead initiatives to connect to makerspaces and industries that can support future making. Instructor facilitated discussions between students will form a community of mutual learning.

**Prerequisite:** Graduate standing.

**Schedule Type:** Studio

**Contact Hours:** 6 other

**Grade Mode:** Standard Letter

**ARTS 54091 VARIABLE CONTENT SEMINAR: STUDIO ART 3 Credit Hours**

(Repeatable for maximum 9 credit hours) Contemporary issues related to visual arts explored through presentation, lecture and discussion. Guest speakers augment staff.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Seminar

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**ARTS 54192 INTERNSHIP OR PRACTICUM IN STUDIO ART 1-6 Credit Hours**

(Repeatable for credit) (Slashed with ARTS 44192) An undergraduate, experience-based learning activity carried out in a visual arts setting. Emphasis is on the goals of connecting ideas, concepts, and skills developed in coursework to applications in new or different contexts, demonstrating how this experience has broadened students' understanding of their discipline, and reflection on the significance of the experience.

**Prerequisite:** A major in the School of Art; and graduate standing; and special approval.

**Schedule Type:** Practical Experience

**Contact Hours:** 3-18 other

**Grade Mode:** Standard Letter-IP

**ARTS 55080 KENT BLOSSOM ART 1-6 Credit Hours**

(Repeatable for credit) (Slashed with ARTS 45080) Studio exploration in the visual arts, including ceramics, drawing, glass, jewelry-metals-enameling, painting, print media and photography, sculpture and expanded media and textiles.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Studio

**Contact Hours:** 2-12 other

**Grade Mode:** Standard Letter-IP

**ARTS 55092 FIELD EXPERIENCE: TRAVEL STUDIES IN STUDIO ART 1-3 Credit Hours**

(Repeatable for credit) (Cross-listed with ARTS 45092) Travel-based field study experience in studio art disciplines to and at a site or sites away from Kent State University.

**Prerequisite:** Major in Studio Art; and graduate standing; and special approval.

**Schedule Type:** Field Experience

**Contact Hours:** 3-9 other

**Grade Mode:** Satisfactory/Unsatisfactory

**ARTS 55095 STUDIO ART: SPECIAL TOPICS 1-6 Credit Hours**

(Repeatable for credit) (Cross-listed with ARTS 45095) Specialized courses in studio art that focus on specific techniques and media.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Studio

**Contact Hours:** 2-12 other

**Grade Mode:** Standard Letter

**ARTS 55300 TEXTILES: JACQUARD WEAVING 3 Credit Hours**

(Repeatable for maximum 6 credit hours) (Slashed with ARTS 45300) Introduction to digital design and production of jacquard woven cloth on state-of-the-art TC1 hand looms. The use of Pointcarré®, a specialized weave software and Photoshop® provides a foundation of professional design knowledge for application in a studio or industry context. Historic and contemporary examples are studied as a foundation to enhance individual exploration of this distinctive woven language for art and design.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Studio

**Contact Hours:** 6 other

**Grade Mode:** Standard Letter

**ARTS 55304 TEXTILES: PICTORIAL WEAVING 3 Credit Hours**

(Slashed with ARTS 45304) Introduction to a range of weaving processes traditionally associated with the creation of figured or pictorial cloth. Techniques such as warp painting, supplementary weft and warp, pick-up doubleweave and tapestry are explored as a means of creating a well-composed art cloth. Textile history is presented as an important resource for the development of woven studies and individually conceived projects.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Studio

**Contact Hours:** 6 other

**Grade Mode:** Standard Letter

**ARTS 55307 TEXTILES: WEAVING AND COLOR 3 Credit Hours**

(Slashed with ARTS 45307) This course will provide students with an opportunity to explore numerous techniques that emphasize the interaction of color in relation to the unique interlacement process of weaving. The use of different looms (including the floor and frame) will provide the means to integrate color with patterns and image in the connection of warp and weft. Immersion dyeing will be introduced along with specialized direct dye application, methods.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Studio

**Contact Hours:** 6 other

**Grade Mode:** Standard Letter

**ARTS 55705 CAD FOR JEWELRY 3 Credit Hours**

(Slashed with ARTS 45705) Students develop a set of comprehensive computer-aided design (CAD) skills to be utilized in a variety of studies such as sculpture design, jewelry making and many others. CAD skills are developed through the investigation of laser cutting, 3D modeling and project planning, and 3D printing. Mastery of these techniques enable students to better explore object-making as a medium of personal expression. Although there are many technical components to learn, the instructor also focuses on the relationship between form, subject matter and content. Software covered in this class includes Rhinoceros (3D modeling), Flamingo (endering), Adobe Illustrator (vector drawing) and Cubify (3D printing).

**Prerequisite:** Graduate standing.

**Schedule Type:** Studio

**Contact Hours:** 6 other

**Grade Mode:** Standard Letter

**ARTS 64000 GRADUATE SEMINAR I: STUDIO ART 3 Credit Hours**

(Repeatable for credit) This graduate seminar intends to bring together graduate students working across disciplines to facilitate their participation in creating a framework for understanding the practice of art-making in relation to the contemporary global and cultural terrain.

**Prerequisite:** Graduate standing.

**Schedule Type:** Seminar

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ARTS 64001 GRADUATE SEMINAR II: STUDIO ART 3 Credit Hours**

(Repeatable for credit) This graduate seminar is an advanced course which intends to bring together graduate students working across disciplines to facilitate their participation in creating a framework for understanding the practice of art-making in relation to the contemporary global and cultural terrain.

**Prerequisite:** ARTS 64000; and graduate standing.

**Schedule Type:** Seminar

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ARTS 64040 GRADUATE STUDIO: PRINT MEDIA AND PHOTOGRAPHY I****1-9 Credit Hours**

(Repeatable for credit) Research-based, hands-on studio course providing a context for individual creative projects in the Print Media and Photography concentration.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Studio

**Contact Hours:** 2-18 other

**Grade Mode:** Standard Letter-IP

**ARTS 64041 GRADUATE STUDIO: PRINT MEDIA AND PHOTOGRAPHY II****1-9 Credit Hours**

(Repeatable for credit) Advance research-based, hands-on studio course providing a context for individual creative projects in the Print Media and Photography concentration.

**Prerequisite:** ARTS 64040; and graduate standing.

**Schedule Type:** Studio

**Contact Hours:** 2-18 other

**Grade Mode:** Standard Letter-IP

**ARTS 64050 GRADUATE STUDIO: SCULPTURE AND EXPANDED MEDIA****I 1-9 Credit Hours**

(Repeatable for credit) Research-based, hands-on studio course providing a context for individual creative projects in the Sculpture and Expanded Media concentration.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Studio

**Contact Hours:** 2-18 other

**Grade Mode:** Standard Letter-IP

**ARTS 64051 GRADUATE STUDIO: SCULPTURE AND EXPANDED MEDIA****II 1-9 Credit Hours**

(Repeatable for credit) Advanced research-based, hands-on studio course providing a context for individual creative projects in the Sculpture and Expanded Media concentration.

**Prerequisite:** ARTS 64050; and graduate standing.

**Schedule Type:** Studio

**Contact Hours:** 2-18 other

**Grade Mode:** Standard Letter-IP

**ARTS 64060 GRADUATE STUDIO: DRAWING AND PAINTING I 1-9 Credit Hours**

(Repeatable for credit) Research-based, hands-on studio course providing a context for individual creative projects in the Drawing and Painting concentration.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Studio

**Contact Hours:** 2-18 other

**Grade Mode:** Standard Letter-IP

**ARTS 64061 GRADUATE STUDIO: DRAWING AND PAINTING II 1-9 Credit Hours**

(Repeatable for credit) Advanced research-based, hands-on studio course providing a context for individual creative projects in the Drawing or Painting concentration.

**Prerequisite:** ARTS 64060; and graduate standing.

**Schedule Type:** Studio

**Contact Hours:** 2-18 other

**Grade Mode:** Standard Letter-IP

**ARTS 64096 INDIVIDUAL INVESTIGATION STUDIO ART 1-3 Credit Hours**

(Repeatable for credit) Independent study in studio art.

**Prerequisite:** Master of Art or Master of Fine Arts degree in the School of Art; and graduate standing; and special approval.

**Schedule Type:** Individual Investigation

**Contact Hours:** 3-9 other

**Grade Mode:** Standard Letter-IP

**ARTS 64098 RESEARCH IN STUDIO ART 1-15 Credit Hours**

(Repeatable for credit) Studio research in the visual arts.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Research

**Contact Hours:** 1-15 other

**Grade Mode:** Standard Letter

**ARTS 65095 STUDIO ART: ADVANCED SPECIAL TOPICS 1-6 Credit Hours**

(Repeatable for credit) Advanced specialized courses in studio art that focus on specific techniques and media.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Studio

**Contact Hours:** 2-12 other

**Grade Mode:** Standard Letter

**ARTS 65300 GRADUATE STUDIO: TEXTILES I 1-9 Credit Hours**

(Repeatable for credit) Research-based, hands-on studio course providing a context for individual creative projects in the Textiles concentration.

**Prerequisite:** Graduate standing.

**Schedule Type:** Studio

**Contact Hours:** 2-18 other

**Grade Mode:** Standard Letter-IP

**ARTS 65301 GRADUATE STUDIO: TEXTILES II 1-9 Credit Hours**

(Repeatable for credit) Advanced research-based, hands-on studio course providing a context for individual creative projects and cultivating a personal direction in the Textiles concentration.

**Prerequisite:** ARTS 65300; and graduate standing; and special approval.

**Schedule Type:** Studio

**Contact Hours:** 2-18 other

**Grade Mode:** Standard Letter-IP

**ARTS 65400 GRADUATE STUDIO: CERAMICS I 1-9 Credit Hours**

(Repeatable for credit) Research-based, hands-on studio course providing a context for individual creative projects in the Ceramics concentration.

**Prerequisite:** Graduate standing.

**Schedule Type:** Studio

**Contact Hours:** 2-18 other

**Grade Mode:** Standard Letter-IP

**ARTS 65401 GRADUATE STUDIO: CERAMICS II 1-9 Credit Hours**

(Repeatable) Advanced research-based, hands-on studio course providing a context for individual creative projects and cultivating a personal direction in the Ceramics concentration.

**Prerequisite:** ARTS 65400; and graduate standing; and special approval.

**Schedule Type:** Studio

**Contact Hours:** 2-18 other

**Grade Mode:** Standard Letter-IP

**ARTS 65600 GRADUATE STUDIO: GLASS I 1-9 Credit Hours**

(Repeatable for credit) Research-based, hands-on studio course providing a context for individual creative projects in the Glass concentration.

**Prerequisite:** Graduate standing.

**Schedule Type:** Studio

**Contact Hours:** 2-18 other

**Grade Mode:** Standard Letter-IP

**ARTS 65601 GRADUATE STUDIO: GLASS II 1-9 Credit Hours**

(Repeatable for credit) Advanced research-based, hands-on studio course providing a context for individual creative projects and cultivating a personal direction in the Glass concentration.

**Prerequisite:** ARTS 65600; and graduate standing; and special approval.

**Schedule Type:** Studio

**Contact Hours:** 2-18 other

**Grade Mode:** Standard Letter-IP

**ARTS 65700 GRADUATE STUDIO: JEWELRY, METALS, ENAMELING I 1-9 Credit Hours**

(Repeatable for credit) Advanced research-based, hands-on studio course providing a context for individual creative projects and cultivating a personal direction in the Jewelry, Metals, Enameling concentration.

**Prerequisite:** Graduate standing.

**Schedule Type:** Studio

**Contact Hours:** 2-18 other

**Grade Mode:** Standard Letter-IP

**ARTS 65701 GRADUATE STUDIO: JEWELRY, METALS, ENAMELING II 1-9 Credit Hours**

(Repeatable for credit) Advanced research-based, hands-on studio course providing a context for individual creative projects and cultivating a personal direction in the Jewelry, Metals, Enameling concentration.

**Prerequisite:** ARTS 65700; and graduate standing.

**Schedule Type:** Studio

**Contact Hours:** 2-18 other

**Grade Mode:** Standard Letter-IP

**ARTS 65991 SEMINAR IN STUDIO ART 1-3 Credit Hours**

(Repeatable for credit) Contemporary issues and professional concerns in studio art explored through presentations, lectures, and discussion. Graduate faculty and guest speakers.

**Prerequisite:** Graduate standing.

**Schedule Type:** Seminar

**Contact Hours:** 1-3 other

**Grade Mode:** Standard Letter

## School of Fashion Design and Merchandising

### Fashion Design and Merchandising (FDM)

#### FDM 10010 FASHION FUNDAMENTALS 3 Credit Hours

Introduction to the global fashion industry. Analysis of the business of fashion how it is conceived marketed and sold. Overview of important resources, companies and personnel who impact the industry.

**Prerequisite:** Fashion design, fashion merchandising or pre-fashion design and merchandising major.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

#### FDM 10023 FASHION VISUALS 1 Credit Hour

The study of fashion information, research sources, color theory, two-and three-dimensional design and visual presentation formats as they apply to the fashion industry.

**Prerequisite:** Fashion design or fashion merchandising major.

**Corequisite:** FDM 10024.

**Schedule Type:** Lecture

**Contact Hours:** 1 lecture

**Grade Mode:** Standard Letter

#### FDM 10024 FASHION VISUALS LABORATORY 2 Credit Hours

Laboratory applications in the study of fashion information, research sources, color theory, two-and three-dimensional design and visual presentation formats as they apply to the fashion industry.

**Prerequisite:** Fashion design or fashion merchandising major.

**Corequisite:** FDM 10023.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 1 lecture, 2 lab

**Grade Mode:** Standard Letter

#### FDM 10033 FASHION FABRICS 1 Credit Hour

Study of fabrics, focusing on differentiating between fibers, fabric construction, and fabric names. The student will study fabric properties and how they relate to fabric end usage.

**Prerequisite:** Fashion design or fashion merchandising major.

**Corequisite:** FDM 10034.

**Schedule Type:** Lecture

**Contact Hours:** 1 lecture

**Grade Mode:** Standard Letter

#### FDM 10034 FASHION FABRICS LABORATORY 2 Credit Hours

Laboratory applications in the study of fabrics, focusing on differentiating between fibers, fabric construction, and fabric names. The student will study fabric properties and how they relate to fabric end usage.

**Prerequisite:** Fashion design or fashion merchandising major.

**Corequisite:** FDM 10033.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 1 lecture, 2 lab

**Grade Mode:** Standard Letter

#### FDM 10053 INTRODUCTION TO FASHION TECHNOLOGY 1 Credit Hour

Introduces students to the fundamental concepts, procedures, and techniques used in digital imaging software and information database software. A survey of current and emerging technologies used in fashion design, merchandising and production contexts is presented.

**Prerequisite:** Fashion design or fashion merchandising major.

**Corequisite:** FDM 10054.

**Schedule Type:** Lecture

**Contact Hours:** 1 lecture

**Grade Mode:** Standard Letter

#### FDM 10054 INTRODUCTION TO FASHION TECHNOLOGY LABORATORY 2 Credit Hours

Laboratory applications of fundamental concepts, procedures, and techniques used in digital imaging software and information database software. A survey of current and emerging technologies used in fashion design, merchandising, and production contexts is presented and applied.

**Prerequisite:** Fashion design or fashion merchandising major.

**Corequisite:** FDM 10053.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 1 lecture, 2 lab

**Grade Mode:** Standard Letter

#### FDM 10140 FOUNDATIONS OF FASHION DRAWING 3 Credit Hours

Introduction to fashion drawing. Concentration on communicating through drawing the fashion figures and technical flats, accurate garment proportion and construction.

**Prerequisite:** Fashion design major.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 5 other

**Grade Mode:** Standard Letter

#### FDM 15055 BASICS OF APPAREL CONSTRUCTION 3 Credit Hours

Introduction to sewing techniques and application processes using industrial sewing machines and other related equipment in basic garment construction. Development of fundamental patternmaking skills.

**Prerequisite:** Fashion design major.

**Schedule Type:** Studio

**Contact Hours:** 6 other

**Grade Mode:** Standard Letter

#### FDM 20013 HISTORY OF COSTUME 3 Credit Hours

Chronological study and research of historic costume from the origin of clothing through the French revolutionary era, 19th and 20th century designers, and the influence on contemporary fashion.

**Prerequisite:** HIST 11050 or HIST 11051 or ARTH 22006 or ARTH 22007.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

#### FDM 20030 FASHION APPAREL ANALYSIS 3 Credit Hours

Analysis and evaluation of fashion apparel; quality standards of ready-to-wear apparel and factors that influence the aesthetic and functional performance of the end product.

**Prerequisite:** FDM 10033 and FDM 10034; and fashion merchandising major.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**FDM 20050 FASHION TECHNOLOGY APPLICATIONS 3 Credit Hours**

A continuation of content related to technology within the fashion industry. Pattern manipulation, basic technical packages, garment measuring specs, print design and computerized fashion illustration is addressed with the use of industry-specific and off-the-shelf software packages.

**Prerequisite:** FDM 10053 and FDM 10054; and fashion design major.

**Schedule Type:** Studio

**Contact Hours:** 6 other

**Grade Mode:** Standard Letter

**FDM 20121 FASHION DRAWING I 3 Credit Hours**

Advanced study of design illustration techniques as applied to the fashion figure through the use of live model drawing. Concentration on fabric rendering and drape as illustrated on the fashion figure. Introduction to technical flats used for illustrating garment construction.

**Prerequisite:** FDM 10023 and FDM 10024; and FDM 10140; and fashion design major.

**Schedule Type:** Laboratory

**Contact Hours:** 6 lab

**Grade Mode:** Standard Letter

**FDM 20122 FASHION DRAWING II 3 Credit Hours**

Continued study of fashion illustration techniques through the use of Croquis books and figure layouts. Introduction to different design markets and research and how illustration reflects different markets. Instruction on stylizing according to market.

**Prerequisite:** FDM 20121.

**Schedule Type:** Laboratory

**Contact Hours:** 6 lab

**Grade Mode:** Standard Letter

**FDM 20153 FLAT PATTERN 3 Credit Hours**

Development of basic muslins and slopers. Patternmaking principles of dart manipulation and added fullness. Construction techniques for bodice, skirt, sleeve, collar, and pant variations.

**Prerequisite:** FDM 10033 and FDM 10034; and FDM 15055; and fashion design major.

**Schedule Type:** Studio

**Contact Hours:** 6 other

**Grade Mode:** Standard Letter

**FDM 20154 DRAPING 3 Credit Hours**

Development of basic garment shapes using draping techniques. Emphasis placed on torso development, contouring principles and design development on the form. Construction techniques for boned bodice garments and using knit and bias cut fabrics.

**Prerequisite:** FDM 10033 and FDM 10034; and FDM 15055; and fashion design major.

**Schedule Type:** Studio

**Contact Hours:** 6 other

**Grade Mode:** Standard Letter

**FDM 20155 MACHINE KNITTING 3 Credit Hours**

Basic machine knitting techniques, including structure and shaping on industrial handflat knitting machine. Development and analysis of knitted textiles.

**Prerequisite:** None.

**Schedule Type:** Studio

**Contact Hours:** 6 other

**Grade Mode:** Standard Letter

**FDM 20263 FASHION RETAIL INDUSTRY 3 Credit Hours**

Study of retail organizations and structures within the fashion industry. Analysis of supervision organization and operations management of fashion retail institutions.

**Prerequisite:** FDM 10010; and fashion merchandising major.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**FDM 25011 FASHION BRANDING 3 Credit Hours**

An overview of branding in the fashion industry. Analysis of strategies for creating (brand awareness), maintaining (brand management) and enhancing the strength (brand asset management) of fashion brands. Class members work individual as part of a group.

**Prerequisite:** FDM 10010; and fashion merchandising major.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**FDM 30013 FASHION AND POP CULTURE 3 Credit Hours**

An examination of the relationship between different types of design and popular culture in America and Europe in the 20th and 21st centuries.

**Prerequisite:** ARTH 22006 or ARTH 22007 or HIST 11050 or HIST 11051.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**FDM 30050 FASHION TECHNOLOGY: COMPUTER INTEGRATED TEXTILE DESIGN 3 Credit Hours**

The use of Computer Integrated Design tools to produce textile prints, wovens and knits for professional presentation scenarios.

**Prerequisite:** FDM 10053 and FDM 10054.

**Schedule Type:** Studio

**Contact Hours:** 5 other

**Grade Mode:** Standard Letter

**FDM 30083 PROFESSIONAL SEMINAR 3 Credit Hours**

Professional development strategies for fashion and related careers. Emphasis is on verbal and written communication skills.

**Prerequisite:** FDM 20030 and fashion merchandising major; and junior or senior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**FDM 30124 TECHNICAL DESIGN IN THE FASHION INDUSTRY 3 Credit Hours**

Students learn seamstitch classifications, costing, sourcing and lab testing quality assurance. Assembly-line and modular manufacturing are discussed.

**Prerequisite:** FDM 10033, FDM 10034 and FDM 20050.

**Schedule Type:** Laboratory, Lecture, Combined Lecture and Lab

**Contact Hours:** 5 other

**Grade Mode:** Standard Letter

**FDM 30132 APPAREL CONSTRUCTION FOR SPECIALTY MARKETS 1 Credit Hour**

Construction details specific to a market are researched, discussed and duplicated. Only one specialty market covered each class. Markets vary by class.

**Prerequisite:** None.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 1.5 other

**Grade Mode:** Standard Letter



**FDM 30151 ADVANCED PATTERNMAKING 3 Credit Hours**

Flat pattern assignments for advanced, complex garments. Suits, outerwear, cutsew knits will all be covered. Students will make patterns by traditional methods as well as by computer.

**Prerequisite:** FDM 20153 and FDM 20154.

**Schedule Type:** Studio

**Contact Hours:** 6 other

**Grade Mode:** Standard Letter

**FDM 30154 DIGITAL MACHINE KNITTING 3 Credit Hours**

Programming knitting and basics of operating an industrial knitting machine. Students will develop a sample book that includes industrial techniques, such as structure, shaping, jacquard, intarsia cables, etc. One group project to create a garment and one final project based on research of knit industry will be required.

**Prerequisite:** None.

**Schedule Type:** Studio

**Contact Hours:** 6 other

**Grade Mode:** Standard Letter

**FDM 30155 KNITWEAR DESIGN 3 Credit Hours**

Focus is on the design development of knitwear, learning about how to recognize and communicate knit design through graphs and stitch notation as well as what yarns, fibers and machines are appropriate. The students in this class also design knitwear collections.

**Prerequisite:** Fashion design major.

**Schedule Type:** Studio

**Contact Hours:** 5 other

**Grade Mode:** Standard Letter

**FDM 30161 FASHION DESIGN STUDIO I 6 Credit Hours**

Open fashion studio concept to support the creative process of croquis sketching and construction in the production of design work. Students explore markets, selling seasons, and specific construction techniques; and they further develop fashion design process approaches.

**Prerequisite:** FDM 20122 and FDM 20153 and FDM 20154.

**Schedule Type:** Studio

**Contact Hours:** 12 other

**Grade Mode:** Standard Letter

**FDM 30162 FASHION DESIGN STUDIO II 6 Credit Hours**

A continuation of the open fashion studio concept to support the entire creative process to produce design work. Students explore fashion markets, selling seasons, and specific construction techniques; and they further develop fashion design process approaches.

**Prerequisite:** FDM 30161 or FDM 30171 or FDM 30181.

**Schedule Type:** Studio

**Contact Hours:** 12 other

**Grade Mode:** Standard Letter

**FDM 30171 FLORENCE FASHION DESIGN STUDIO I 6 Credit Hours**

Open fashion studio concept to support the creative process of croquis sketching and construction in the production of design work. Students explore markets, selling seasons, and specific construction techniques; and they further develop fashion design process approaches. European markets and travel are incorporated.

**Prerequisite:** FDM 20122 and FDM 20153 and FDM 20154; and special approval.

**Schedule Type:** Studio

**Contact Hours:** 12 other

**Grade Mode:** Standard Letter

**FDM 30172 FLORENCE FASHION DESIGN STUDIO II 6 Credit Hours**

Continuation of the open fashion studio concept to support the entire creative process to produce design work. Students will explore fashion markets, selling seasons, and specific construction techniques; and they will further develop fashion design process approaches. Content specific to the European design experience.

**Prerequisite:** FDM 30161 or FDM 30171 or FDM 30181; and special approval.

**Schedule Type:** Studio

**Contact Hours:** 12 other

**Grade Mode:** Standard Letter

**FDM 30181 NEW YORK CITY FASHION DESIGN STUDIO I 6 Credit Hours**

Open fashion studio concept to support the creative process of croquis sketching and construction in the production of design work. Students explore markets, selling seasons, and specific construction techniques; and they further develop fashion design process approaches. New York City markets and design-specific experiences are incorporated.

**Prerequisite:** FDM 20122 and FDM 20153 and FDM 20154; and special approval.

**Schedule Type:** Studio

**Contact Hours:** 12 other

**Grade Mode:** Standard Letter

**FDM 30182 NEW YORK CITY DESIGN STUDIO II 6 Credit Hours**

Continuation of the open fashion studio concept to support the entire creative process to produce design work. Students explore fashion markets, selling seasons, and specific construction techniques; and they further develop fashion design process approaches. Content specific to the New York City fashion design experience.

**Prerequisite:** FDM 30161 or 30171 or 30181; and special approval.

**Schedule Type:** Studio

**Contact Hours:** 12 other

**Grade Mode:** Standard Letter

**FDM 30260 PRODUCT DEVELOPMENT IN THE FASHION INDUSTRY 3 Credit Hours**

Researching, planning, developing and presenting a fashion product line for an identified target market with regard to prices, styling and timing.

**Prerequisite:** FDM 20030; and fashion merchandising major.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**FDM 30262 FASHION MERCHANDISE PLANNING AND BUYING 3 Credit Hours**

Study of market sources, fashion buying techniques, assortment planning and allocation and quantitative calculations needed in the fashion industry.

**Prerequisite:** FDM 20263; and MATH 11009 or MATH 11010 or MATH 11012 or MATH 10041; and fashion merchandising major.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**FDM 35010 CONTEMPORARY FASHION DESIGNERS (WIC) 3 Credit Hours**

Examine and analyze international fashion design and designers of the 20th and 21st centuries. Focuses on the history, development and present context of fashion. Students assemble a portfolio of fashion designers studied to include their biographies, clippings of their work and design inspirations.

**Prerequisite:** FDM 20013; and fashion design major.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Writing Intensive Course

**FDM 35011 FASHION FORECASTING 3 Credit Hours**

Identifying trends to develop fashion forecasts. Interrelationships of forecasting promotion, public relations, and the fashion media will be explored.

**Prerequisite:** FDM 25011.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**FDM 35012 SUSTAINABILITY IN FASHION 3 Credit Hours**

Analysis and development of design process thinking through the lens of sustainability and socially responsibility in fashion. Readings, documentaries and lectures are discussed in class. Interdisciplinary teams create a product that supports sustainable fashion futures.

**Prerequisite:** Fashion design and fashion merchandising majors.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**FDM 35013 FASHION ACCESSORIES 3 Credit Hours**

The merchandising, promotion and sales of accessories. Materials production and resources are examined by category.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**FDM 35060 FASHION IMAGE 3 Credit Hours**

Study of fashion imagery through industry observation, analysis, and examination of fashion photo shoots and styling practices. Combines theoretical and practical approach in planning through individual and collaborative efforts resulting in a fashion industry-inspired photo shoot and styling project.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**FDM 35063 VISUAL MERCHANDISING AND DISPLAY 3 Credit Hours**

Theory and practice of merchandise presentation for the purpose of promotion and sales.

**Prerequisite:** Fashion merchandising major.

**Schedule Type:** Laboratory, Lecture

**Contact Hours:** 1 lecture, 4 lab

**Grade Mode:** Standard Letter

**FDM 35070 THE LUXURY MARKET 3 Credit Hours**

Purpose is to learn, understand, and perceive the luxury market and its parameters. Students gain an understanding of the marketing power of luxury brands and the organization of a luxury products company.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**FDM 35080 FASHION IN THE MEDIA 3 Credit Hours**

Analysis of key fashion magazines and in-depth examination of how they are created. Students learn the fundamentals of different forms of communication and the contributions editors, writers, stylists and photographers make toward the finished product. Exploration of how various media interrelate and contribute to the fashion industry is included. Different forms of writing, editing and interviewing as well as the roles of photography, design and styling are examined. Online outlets, television commentary, fashion advertising and Public Relations are discussed.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**FDM 35121 FASHION MODEL DRAWING 3 Credit Hours**

In-depth study of fashion model drawing and the illustration techniques associated with realistic and stylized depictions of the fashion form. A live fashion model will be part of each class in timed poses with instructor demonstrations and in-class drawing assignments.

**Prerequisite:** FDM 20122; and special approval.

**Schedule Type:** Studio

**Contact Hours:** 6 other

**Grade Mode:** Standard Letter

**FDM 35122 ADVANCED FASHION ILLUSTRATION TECHNIQUES 3 Credit Hours**

Focused approach to advanced fashion illustration techniques beyond the required Drawing I and II. Covers a wide variety of illustration mediums and tools, such as gouache, marker, ink and pastels, deepening skill sets and visual literacy through demonstrations and practice-based assignments.

**Prerequisite:** FDM 20122; and special approval.

**Schedule Type:** Studio

**Contact Hours:** 6 other

**Grade Mode:** Standard Letter

**FDM 35260 MERCHANDISING FOR HOME FURNISHINGS 3 Credit Hours**

Introduction to the various retail classifications of home furnishing merchandise to include furniture, floor coverings, window treatments, household linens, table tops, housewares and decorative accessories.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**FDM 35270 COMPUTER APPLICATIONS IN RETAILING 3 Credit Hours**

The application and use of the microcomputer to solve problems in assortment planning, merchandise management, trading area and site analysis, store planning, planogramming and media planning.

**Prerequisite:** FDM 20263; and MATH 10041 or MATH 11009 or MATH 11010 or MATH 11012; and fashion merchandising major.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**FDM 35280 FASHION ENTREPRENEURSHIP 3 Credit Hours**

In-depth study of entrepreneurship concepts as applied to manufacturers and retailers of apparel including product development, accounting and control merchandising and buying operation and management advertising and promotion.

**Prerequisite:** Junior or senior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**FDM 35900 FLORENCE FASHION STUDY ORIENTATION 1 Credit Hour**

Overview of Florence fashion program, the city of Florence, living and traveling in Europe as a study abroad student. Includes assistance for obtaining required documents. Students must enroll in Florence fashion program to receive credit.

**Prerequisite:** Minimum 2.500 overall GPA; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 1 lecture

**Grade Mode:** Satisfactory/Unsatisfactory

**FDM 35901 ITALIAN FASHION AND CULTURE 3 Credit Hours**

Evolution of the fashion industry in post World War II Italy. Study of the creators, design and production processes creating one of the most successful unions of commercial product and cultural expression world-wide.

**Prerequisite:** FDM 35900.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**FDM 35902 EUROPEAN FASHION MARKETING 3 Credit Hours**

Building on the information acquired in the European Fashion Marketing Seminar lectures and visits, student complete a series of assignments designed to simulate the type of work that a merchandising professional may be asked to complete.

**Corequisite:** FDM 35903.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**FDM 35903 EUROPEAN FASHION MARKETING SEMINAR 3 Credit Hours**

Taken concurrently with European Fashion Marketing and uses a European city as an extended classroom, combining various field trips to directional shopping districts, fashion houses and fashion magazines. Only taught in European settings.

**Corequisite:** FDM 35902.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 3 lecture, 2 lab

**Grade Mode:** Standard Letter

**FDM 35904 EUROPEAN FASHION DESIGN 3 Credit Hours**

Taken concurrently with European Fashion Design Seminar and is designed to introduce couture techniques and enhance techniques of those who possess a basic to advance knowledge of sewing. Only taught in European settings.

**Corequisite:** FDM 35905.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 3 lecture, 2 lab

**Grade Mode:** Standard Letter

**FDM 35905 EUROPEAN FASHION DESIGN SEMINAR 3 Credit Hours**

Taken concurrently with European Fashion Design and uses a European city as an extended classroom, combining various field trips to directional shopping districts, fashion houses and fashion magazines.

**Corequisite:** FDM 35904.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 3 lecture, 2 lab

**Grade Mode:** Standard Letter

**FDM 40050 FASHION TECHNOLOGY:TECHSTYLELAB 3 Credit Hours**

Explores the historical and contemporary links between fashion and technology. Garments, artists, designers, institutions and projects relevant to technological explorations within the fashion context is discussed. Research and experiments conducted with the Fashion School's TechStyleLAB. Students acquire fundamental research skills for fashion technology and develop their own web presence.

**Prerequisite:** FDM 10053 and FDM 10054.

**Schedule Type:** Studio

**Contact Hours:** 5 other

**Grade Mode:** Standard Letter

**FDM 40098 RESEARCH IN FASHION DESIGN AND MERCHANDISING (ELR) 1-3 Credit Hours**

(Repeatable for credit) Research experience and investigation of a topic above the level available through coursework with an individual faculty member. This experience is designed to strengthen student's ability to synthesize different phases and methods of academic research. Students work closely with a faculty member to determine the specific nature, scope, and design of the research experience.

**Prerequisite:** Special approval.

**Schedule Type:** Research

**Contact Hours:** 3-9 other

**Grade Mode:** Standard Letter

**Attributes:** Experiential Learning Requirement

**FDM 40099 SENIOR FASHION DESIGN THESIS I (ELR) 6 Credit Hours**

Senior fashion design thesis collection is created focused on the specialties of each student. This collection is finalized, analyzed and presented in Senior Thesis II. Students engage in a formalized critical development and review process with established external fashion designers.

**Prerequisite:** FDM 30162 or FDM 30172 or FDM 30182; and fashion design majors.

**Schedule Type:** Senior Project/Honors Thesis

**Contact Hours:** 12 other

**Grade Mode:** Standard Letter

**Attributes:** Experiential Learning Requirement

**FDM 40121 FASHION PORTFOLIO I 3 Credit Hours**

Students in the course develop a professional design portfolio that will emphasize in-depth individual investigation of specific apparel markets, target customers and seasons, displaying various illustrative techniques. Croquis books, technical packets and line plans will be used.

**Prerequisite:** FDM 30161 or FDM 30171 or FDM 30181; and FDM 30162 or FDM 30172 or FDM 30182.

**Schedule Type:** Laboratory

**Contact Hours:** 6 lab

**Grade Mode:** Standard Letter

**FDM 40122 FASHION PORTFOLIO II 3 Credit Hours**

A continuation of FDM 40121. Students continue development of design portfolio that emphasizes their strengths in design and presentation. In addition, there is continued progress in croquis books and development of seasonal line plans.

**Prerequisite:** FDM 40121.

**Schedule Type:** Laboratory

**Contact Hours:** 6 lab

**Grade Mode:** Standard Letter

**FDM 40141 FASHION STUDIO III 3 Credit Hours**

Development of pattern work, specification sheets and muslins for original line. Faculty and external professional critiques.

**Prerequisite:** FDM 30161 and FDM 30162; or FDM 30171 and FDM 30172; or FDM 30181 and FDM 30182.

**Schedule Type:** Laboratory

**Contact Hours:** 6 lab

**Grade Mode:** Standard Letter

**FDM 40199 SENIOR FASHION DESIGN THESIS II (ELR) 3 Credit Hours**

Continuation of Senior Fashion Design Thesis I. Finalize senior thesis project; critical review and reflection on outcome in a short analysis. The final thesis submission will be displayed through a juried venue.

**Prerequisite:** FDM 40099.

**Schedule Type:** Senior Project/Honors Thesis

**Contact Hours:** 6 other

**Grade Mode:** Standard Letter

**Attributes:** Experiential Learning Requirement

**FDM 40270 FASHION MARKETING 3 Credit Hours**

Examination of fashion producers' and retailers' roles in fashion marketing research. Analysis of consumer motivation through research to develop sales strategies in relationship to marketing strategies.

**Prerequisite:** FDM 35011, MATH 10041 and MKTG 25010.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**FDM 40291 SEMINAR IN FASHION MERCHANDISING (WIC) 3 Credit Hours**

(Repeatable for credit) Capstone course in Fashion Merchandising. Builds and expands on all merchandising-related coursework with the goal of integrating content and applying it to real-life scenarios through critical thinking and analysis. A coherent portfolio demonstrating student efficacy with overall program content is completed.

**Prerequisite:** FDM 30260, FDM 30262, FDM 35011 and FDM 35270.

**Schedule Type:** Seminar

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**Attributes:** Writing Intensive Course

**FDM 45012 TEXTILES AND APPAREL IN THE GLOBAL ECONOMY 3 Credit Hours**

Global perspective on the production and marketing of textiles and apparel; historical geographic and economic factors that influence the world trade in soft goods.

**Prerequisite:** FDM 30262 and 35270.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**FDM 45035 HISTORIC TEXTILES 3 Credit Hours**

(Slashed with FDM 55035) Identification and analysis of textile fabrics as the reflection of culture from ancient times to present.

**Prerequisite:** Fashion design or fashion merchandising major.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**FDM 45045 COLLABORATIVE FASHION PRODUCTION 3 Credit Hours**

Exploration of product production process from concept to a marketable product. Utilizes introductory pattern making, sewing skills, and project management to create fashion apparel products.

**Prerequisite:** Fashion design or fashion merchandising major.

**Schedule Type:** Studio

**Contact Hours:** 6 other

**Grade Mode:** Standard Letter

**FDM 45093 VARIABLE TITLE WORKSHOP-FASHION DESIGN AND MARKETING 1-3 Credit Hours**

(Repeatable for a total of 6 hours) Special fee actual cost basis.

**Prerequisite:** Special approval.

**Schedule Type:** Workshop

**Contact Hours:** 1-3 other

**Grade Mode:** Satisfactory/Unsatisfactory

**FDM 45095 SPECIAL TOPICS 1-3 Credit Hours**

(Repeatable for credit) Variable content relevant to the field of fashion.

**Prerequisite:** Permission.

**Schedule Type:** Lecture

**Contact Hours:** 1-3 lecture

**Grade Mode:** Standard Letter

**FDM 45096 INDIVIDUAL INVESTIGATION 1-3 Credit Hours**

(Repeatable for credit) Individual investigation of topic above the level available through coursework. Requires submission of and approval of project proposal prior to registration.

**Prerequisite:** Permission.

**Schedule Type:** Individual Investigation

**Contact Hours:** 1-3 other

**Grade Mode:** Standard Letter

**FDM 45192 INTERNSHIP IN FASHION MERCHANDISING (ELR) 3 Credit Hours**

Supervised practical experience in the fashion industry. Eligibility requirements available from the School of Fashion Design and Merchandising field studies coordinator.

**Prerequisite:** FDM 30083 and 30262; and fashion merchandising major; and special approval for internship site.

**Schedule Type:** Practical Experience

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**Attributes:** Experiential Learning Requirement

**FDM 45212 FASHION SHOW PRODUCTIONS 3 Credit Hours**

Analyses of fashion show formats are considered for promotion purposes. Production planning, organization and physical requirements are studied. Class produces a fashion show.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**FDM 45292 INTERNSHIP IN FASHION DESIGN (ELR) 3 Credit Hours**

Supervised practical experience in the fashion industry. Eligibility requirements available from the School of Fashion Design and Merchandising field studies coordinator.

**Prerequisite:** FDM 20122, FDM 20153 and FDM 20154; and fashion design major; and special approval for internship site.

**Schedule Type:** Practical Experience

**Contact Hours:** 9 other

**Grade Mode:** Standard Letter

**Attributes:** Experiential Learning Requirement

**FDM 45392 FIELD EXPERIENCE: FASHION STUDY TOUR (ELR) 1-3 Credit Hours**

(Repeatable for credit) Visit to domestic or foreign fashion markets, including design and fabric houses or showrooms, retail stores, buying offices and other areas of the fashion industry.

**Prerequisite:** Fashion design or fashion merchandising major; and special approval.

**Schedule Type:** Field Experience

**Contact Hours:** 12-36 other

**Grade Mode:** Satisfactory/Unsatisfactory

**Attributes:** Experiential Learning Requirement

**FDM 45492 FIELD EXPERIENCE STUDY TOUR FOR NYC STUDIO STUDENTS (ELR) 3 Credit Hours**

(Repeatable for credit) Visit to the New York fashion market including design and fabric houses or showrooms, retail stores, buying offices and other areas of the fashion industry.

**Prerequisite:** Fashion design or fashion merchandising major; and special approval.

**Schedule Type:** Field Experience

**Contact Hours:** 3 other

**Grade Mode:** Satisfactory/Unsatisfactory

**Attributes:** Experiential Learning Requirement

**FDM 45592 FIELD EXPERIENCE EUROPEAN FASHION STUDY TOUR FOR FLORENCE STUDENTS (ELR) 3 Credit Hours**

(Repeatable for credit) Visit to European fashion markets including design and fabric houses or showrooms, retail stores, buying offices and other areas of the fashion industry.

**Prerequisite:** Fashion design or fashion merchandising major.

**Schedule Type:** Field Experience

**Contact Hours:** 3 other

**Grade Mode:** Satisfactory/Unsatisfactory

**Attributes:** Experiential Learning Requirement

**FDM 55035 HISTORIC TEXTILES 3 Credit Hours**

(Slashed with FDM 45035) Identification and analysis of textile fabrics as the reflection of culture from ancient times to present.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**FDM 60010 THEORIES AS APPLIED TO THE FASHION INDUSTRY 3 Credit Hours**

Focuses on the meaning, context and intent of fashion in contemporary society. Examination of seminal theories and constructs that inform understanding and ability to address complex issues derived from the fashion industry setting.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**FDM 60011 THE FASHION INDUSTRY: A UNIFYING LENS 3 Credit Hours**

This course is designed to make connections, synthesize, and develop understanding of the fashion industry. Students will participate in informed critical discussion, written, and visual work, guided by interaction with multiple stakeholders and concluded with a final paper and presentation that identifies an area where research through practice can expand knowledge in the field.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**FDM 60020 FASHION INDUSTRY DESIGN MANAGEMENT 3 Credit Hours**

In-depth study of the relationship between creativity and efficiency in the fashion industry. Provides insight into how project managers can nurture innovation in an organizational context.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**FDM 60031 FORMS OF INQUIRY IN THE FASHION INDUSTRY 3 Credit Hours**

Critical evaluation of research, theoretical and scholarly review of articles related to the fashion industry. Learn and practice skills needed to understand and critically evaluate research, theory and scholarly works. Examine in-depth scholarly literature as applied to one topic within the fashion industry. Write and present a scholarly review of literature.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**FDM 60050 TECHSTYLELAB: DIGITAL DESIGN AND NEW MEDIA IN THE FASHION INDUSTRY 3 Credit Hours**

Exploration of the intersection of New Media and Fashion. Includes research into analog design methods and digital systems of production and the supply chain management. Topics include various research and design topics such as mass-customization, co-creation, material ecology, digital craft and future craft practices.

**Prerequisite:** Graduate standing.

**Schedule Type:** Laboratory, Lecture, Combined Lecture and Lab

**Contact Hours:** 1 lecture, 2 lab

**Grade Mode:** Standard Letter



**FDM 60092 FASHION INDUSTRY PRACTICUM 1-6 Credit Hours**

(Course is repeatable for credit) Practicum is an off-campus progressive process involving a number of specific guided experiences with a fashion agency or company. This course is intended to bridge the gap between the theoretical and abstract learning gained in the classroom with real-world concrete applications. Students will be required to produce a substantial report on an innovation.

**Prerequisite:** FDM 60011; and enrolled in the master of fashion industry studies (MFIS) degree; and graduate standing; and special approval from the graduate supervisory committee.

**Schedule Type:** Practical Experience

**Contact Hours:** 3-18 other

**Grade Mode:** Standard Letter

**FDM 60093 WORKSHOPS ON CURRENT TOPICS IN THE FASHION INDUSTRY 1-3 Credit Hours**

(Course is repeatable) Students will be encouraged to take advantage of courses that focus on professional renewal or mastery and application of knowledge and skills that address a range of problems or issues related to fashion industry practice. The workshops will be offered at our NYC, Florence, and Kent campuses.

**Prerequisite:** Graduate standing.

**Schedule Type:** Workshop

**Contact Hours:** 1-3 other

**Grade Mode:** Satisfactory/Unsatisfactory

**FDM 60098 RESEARCH PROJECT IN FASHION INDUSTRY 3 Credit Hours**

(Repeatable for credit) Research experience with an individual faculty member designed to strengthen student's ability to synthesize different phases and methods of research. Students work closely with faculty to determine the specific nature, scope and design of the research experience. Requires submission of and approval of project proposal prior to registration.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Research

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**FDM 60100 ADVANCED FASHION INDUSTRY PRACTICE 3 Credit Hours**

This capstone course is centered in research as both a practice and a process. Students will pursue case studies in which they research, interpret and aim to advance fashion industry practices. Informed by industry observation and experience, utilizing and engaging with a variety of research methods, students will document findings, analyze, reflect, and present their own pragmatic implications drawn from and applied to the fashion industry. The aim of the course is to challenge students to advance their research and analytical skills, to cross disciplinary boundaries, and to develop new and original perspectives of industry research through practice.

**Prerequisite:** FDM 60031; and enrolled in the master of fashion industry studies (MFIS) degree; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**FDM 60162 ADVANCED FASHION INDUSTRY DESIGN AND PRODUCTION 3 Credit Hours**

This process-oriented course focuses on studio investigation of complex formal and spatial constructs in apparel design and production. The course will discuss and examine a variety of current approaches including those that are interdisciplinary and utilize design thinking in a fashion industry context. Students will use methods and tools for fashion research to explore new techniques in the development of design concepts that challenge current practice. Students are encouraged to think critically about design problems and processes while seeking discoveries through experimentation, resulting in a body of work examined by critique and exhibition. Examinable material includes written and visual documentation, which is then retained as the archival record of the research.

**Prerequisite:** Graduate standing; and special approval from the graduate studies coordinator.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**FDM 60199 THESIS I 2-6 Credit Hours**

(Repeatable for credit) Thesis students must register for a maximum of 6 credits, 2 to 6 credits in a single semester, distributed over several semesters if desired.

**Prerequisite:** Graduate standing; and special approval from graduate supervisory committee.

**Schedule Type:** Masters Thesis

**Contact Hours:** 2-6 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**FDM 60299 THESIS II 2 Credit Hours**

(Course is repeatable) Continuing registration required of master's students who have completed the initial 6 hours of thesis and continuing until all degree requirements are met.

**Prerequisite:** FDM 60199; and graduate standing; and special approval from the graduate supervisory committee.

**Schedule Type:** Masters Thesis

**Contact Hours:** 2 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**FDM 63011 VISUAL PRESENTATION IN THE FASHION INDUSTRY 3 Credit Hours**

This course explores the multiple methods of visual presentation practiced in the fashion industry through applications of digital and physical concepts. Students will examine and discuss current fashion industry approaches utilized by creative talent, merchants, and other stakeholders. Focus will be on developing visual communicators who can convey unique brand stories and complex ideas through use of various forms of media. Students will learn to establish branding and visualization of their own work and research to help promote their professional identity.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**FDM 65010 SUSTAINABLE CONCEPTS AND PRACTICES IN THE FASHION INDUSTRY 3 Credit Hours**

This course will discuss and examine the most current approaches to sustainability in fashion. The different facets, benefits or shortcomings of each approach will be analyzed with an eye to researching viable solutions to future practices in manufacturing, material selection, design and business. Course embeds practice-based approaches to sustainable development.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**FDM 65045 FASHION INDUSTRY MERCHANDISE MANAGEMENT 3 Credit Hours**

This course will discuss the overview of the merchandising process - planning, developing, and presenting merchandise lines in the fashion industry. Core merchandising concepts and principles taught in this class include merchandise performance measures, pricing mechanics, wholesale and retail pricing strategy, merchandise budgets and assortment, vendor relationships and negotiations, and merchandise replenishment management. This course will examine such concepts as applied to both manufacturers, wholesalers, and retailers of fashion merchandise.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**FDM 65055 ENTREPRENEURIAL LEADERSHIP AND SUSTAINABILITY IN THE FASHION INDUSTRY 3 Credit Hours**

This course will discuss the importance of the entrepreneurial leadership and innovation as competitive advantage in the fashion industry. Students will examine the conscious leadership concepts and principles from both small/medium enterprises and large corporations of the fashion industry. By applying conscious capitalism approach, the course will introduce more progressive and purposeful ways to advance sustainable practices to benefit all five stakeholders in the fashion industry - society, partners, investors, customers, and employees.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**FDM 65065 SUPPLY CHAIN MANAGEMENT IN THE FASHION INDUSTRY 3 Credit Hours**

This course examines supply chain within the fashion industry and basic theories and principles that guide decision-making in the supply chain. Students will learn how supply chain management can be used to gain a competitive advantage in the fashion industry, comprehend buyer-supplier relationships, supply chain transparency, product recalls, sourcing issues, and other challenges in the global fashion supply chain. Attention will be given to understanding sustainable practices and future developments within the global fashion supply chain.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**FDM 65095 FASHION INDUSTRY SPECIAL TOPICS 1-3 Credit Hours**  
(Repeatable for a maximum of 6 credit hours) Variable content relevant to the field of fashion.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 1-3 lecture

**Grade Mode:** Standard Letter

**FDM 65096 INDIVIDUAL INVESTIGATION IN THE FASHION INDUSTRY 1-3 Credit Hours**

(Repeatable for credit) Individual investigation of topic above the level available through coursework. Requires submission of and approval of project proposal prior to registration.

**Prerequisite:** Graduate standing.

**Schedule Type:** Individual Investigation

**Contact Hours:** 3-9 other

**Grade Mode:** Standard Letter

## School of Music

### Kent Blossom Music (KBM)

**KBM 40026 ACCOMPANYING PROJECTS 2-4 Credit Hours**

(Repeatable for a maximum of 8 credit hours) rotating piano assignment among responsibilities in chamber music rehearsals, chamber music preparation master classes and instrumental private lessons. Individual responsibilities change weekly.

**Prerequisite:** Audition.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 2-4 other

**Grade Mode:** Satisfactory/Unsatisfactory

**KBM 40031 CHAMBER MUSIC 1-4 Credit Hours**

(Repeatable for a maximum of 8 credit hours) rehearsal, coaching and performance of representative chamber repertoire from the baroque era through the twentieth century. Woodwinds horn strings and piano. Intensive daily rehearsal and coaching.

**Prerequisite:** Audition.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 1-4 other

**Grade Mode:** Satisfactory/Unsatisfactory

**KBM 40032 ORCHESTRAL REPERTOIRE AND TECHNIQUE 1 Credit Hour**

(Repeatable for a maximum of 2 credit hours) study and performance of standard orchestral repertoire and common audition requirements. Technical and interpretive approaches relating specifically to orchestral performance. Woodwinds horn and strings.

**Prerequisite:** Audition.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 1 other

**Grade Mode:** Satisfactory/Unsatisfactory

**KBM 40093 VARIABLE TITLE WORKSHOP IN MUSIC 1-4 Credit Hours**

(Repeatable for credit) Offered for specific professional needs. Emphasis on performance and pedagogical skills.

**Prerequisite:** Permission.

**Schedule Type:** Workshop

**Contact Hours:** 4 other

**Grade Mode:** Satisfactory/Unsatisfactory

**KBM 50026 ACCOMPANYING PROJECTS 2-4 Credit Hours**

(Repeatable for a maximum of 8 credit hours) Rotating piano assignment among responsibilities in chamber music rehearsals, chamber music preparation, master classes and instrumental private lessons. Individual responsibilities change weekly.

**Prerequisite:** Graduate standing; and audition.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 2-4 other

**Grade Mode:** Satisfactory/Unsatisfactory

**KBM 50031 CHAMBER MUSIC 1-4 Credit Hours**

(Repeatable for credit) Rehearsal, coaching and performance of representative chamber repertoire from the Baroque Era through the twentieth century. Woodwinds, horn, strings and piano. Intensive daily rehearsal and coaching.

**Prerequisite:** Graduate standing; and audition.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 1-4 other

**Grade Mode:** Satisfactory/Unsatisfactory

**KBM 50032 ORCHESTRAL REPERTOIRE AND TECHNIQUE 1 Credit Hour**

(Repeatable for a maximum of 2 credit hours) Study and performance of standard orchestral repertoire and common audition requirements. Technical and interpretive approaches relating specifically to orchestral performance. Woodwinds, horn and strings.

**Prerequisite:** Graduate standing; and audition.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 1 other

**Grade Mode:** Satisfactory/Unsatisfactory

**KBM 50093 VARIABLE TITLE WORKSHOP IN MUSIC 1-4 Credit Hours**

(Repeatable for credit) Offered for specific professional needs. Emphasis on performance and pedagogical skills.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Workshop

**Contact Hours:** 4 other

**Grade Mode:** Satisfactory/Unsatisfactory

**KBM 70026 ACCOMPANYING PROJECTS 2-4 Credit Hours**

(Repeatable for a maximum of 8 credit hours) Rotating piano assignment among responsibilities in chamber music rehearsals, chamber music preparation, master classes and instrumental private lessons. Individual responsibilities change weekly.

**Prerequisite:** Doctoral standing; and special approval.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 2-4 other

**Grade Mode:** Satisfactory/Unsatisfactory

**KBM 70031 CHAMBER MUSIC 1-4 Credit Hours**

(Repeatable for credit) Rehearsal, coaching and performance of representative chamber repertoire from the Baroque era through the twentieth century. Woodwinds, brass, strings and piano. Intensive daily rehearsal and coaching.

**Prerequisite:** Doctoral standing; and special approval.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 1-4 other

**Grade Mode:** Satisfactory/Unsatisfactory

**KBM 70032 ORCHESTRAL REPERTOIRE AND TECHNIQUE 1 Credit Hour**

(Repeatable for a maximum of 2 credit hours) Study and performance of standard orchestral repertoire and common audition requirements. Technical and interpretive approaches relating specifically to orchestral performance. Woodwinds, horn and strings.

**Prerequisite:** Doctoral standing; and special approval.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 1 other

**Grade Mode:** Satisfactory/Unsatisfactory

**KBM 70093 VARIABLE TITLE WORKSHOP IN MUSIC 1-4 Credit Hours**

(Repeatable for credit) Offered for specific professional needs. Emphasis on performance and pedagogical skills.

**Prerequisite:** Doctoral standing; and special approval.

**Schedule Type:** Workshop

**Contact Hours:** 4 other

**Grade Mode:** Satisfactory/Unsatisfactory

**Music (MUS)****MUS 11110 MUSIC FUNDAMENTALS 3 Credit Hours**

Introduction to the pitch and rhythmic aspects of music. Emphasis on aural skills and music notation. Prepares students for MUS 11111. No credit toward graduation for music majors or minors.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MUS 11111 MUSIC RUDIMENTS 3 Credit Hours**

Introduction to the pitch and rhythmic aspects of music. Emphasis on aural/oral skills and music notation. No credit toward graduation for music majors or minors.

**Prerequisite:** Music Theory Placement Test, score of 01.

**Schedule Type:** Laboratory, Lecture, Combined Lecture and Lab

**Contact Hours:** 2 lecture, 2 lab

**Grade Mode:** Standard Letter

**MUS 11121 THEORY I 4 Credit Hours**

Basic elements of music—harmonic, melodic, rhythmic—studied through analysis, composition, keyboard and ear training. Diatonic materials emphasized.

**Prerequisite:** Music Theory Placement Test, score of 02.

**Schedule Type:** Laboratory, Lecture

**Contact Hours:** 3 lecture, 2 lab

**Grade Mode:** Standard Letter

**Attributes:** TAG Arts and Humanities

**MUS 11122 THEORY II 4 Credit Hours**

Continuation of basic elements of music—harmonic, melodic, rhythmic—studied through analysis, composition, keyboard, singing and ear training. Chromatic materials emphasized.

**Prerequisite:** MUS 11121 with a C grade.

**Schedule Type:** Laboratory, Lecture

**Contact Hours:** 3 lecture, 2 lab

**Grade Mode:** Standard Letter

**Attributes:** TAG Arts and Humanities

- MUS 16914 ELECTRIC GUITAR APPLIED STUDIO MUSICIANSHIP 2,4 Credit Hours**  
(Repeatable for credit) Development of performance proficiency in popular music styles.  
**Prerequisite:** None.  
**Schedule Type:** Private Lesson, Studio  
**Contact Hours:** 1.5-2 other  
**Grade Mode:** Standard Letter
- MUS 16915 ELECTRIC BASS APPLIED STUDIO MUSICIANSHIP 2,4 Credit Hours**  
(Repeatable for credit) Development of performance proficiency in popular music styles.  
**Prerequisite:** None.  
**Schedule Type:** Private Lesson, Studio  
**Contact Hours:** 1.5-2 other  
**Grade Mode:** Standard Letter
- MUS 17011 PIANO CLASS FOR NONMUSIC STUDENTS 2 Credit Hours**  
Development of basic skills required in playing piano, including familiarity with the keyboard and music notation.  
**Prerequisite:** None.  
**Schedule Type:** Laboratory  
**Contact Hours:** 3 lab  
**Grade Mode:** Standard Letter
- MUS 17012 PIANO CLASS FOR NONMUSIC STUDENTS 2 Credit Hours**  
Development of basic skills required in playing piano, including familiarity with the keyboard and music notation.  
**Prerequisite:** MUS 17011.  
**Schedule Type:** Laboratory  
**Contact Hours:** 3 lab  
**Grade Mode:** Standard Letter
- MUS 17013 FUNDAMENTALS OF JAZZ PIANO 1 Credit Hour**  
Focus on the fundamentals of jazz piano chord voicings and accompanying, playing scales related to jazz theory, and learning jazz repertoire on the piano. Additional skills related to becoming a well-rounded jazz improviser, composer and educator.  
**Prerequisite:** MUS 17112 with a minimum C grade; and music major, music education major or music technology major.  
**Schedule Type:** Studio  
**Contact Hours:** 2 other  
**Grade Mode:** Standard Letter
- MUS 17111 PIANO CLASS I 1 Credit Hour**  
Preparatory piano. Piano literature and functional elements of sight-reading, transposition, harmonization and improvisation.  
**Prerequisite:** Special approval.  
**Schedule Type:** Laboratory  
**Contact Hours:** 2 lab  
**Grade Mode:** Standard Letter  
**Attributes:** TAG Arts and Humanities
- MUS 17112 PIANO CLASS II 1 Credit Hour**  
Preparatory piano. Piano literature and functional elements of sight-reading, transposition, harmonization and improvisation.  
**Prerequisite:** MUS 17111 with a minimum C grade; and special approval.  
**Schedule Type:** Laboratory  
**Contact Hours:** 2 lab  
**Grade Mode:** Standard Letter  
**Attributes:** TAG Arts and Humanities
- MUS 18611 SINGER'S DICTION I 1 Credit Hour**  
Foundational training and performance practice in phonetics and singing diction for the English, American, Ecclesiastical Latin and Italian vocal repertoire.  
**Prerequisite:** Music or music education major.  
**Schedule Type:** Lecture  
**Contact Hours:** 1 lecture  
**Grade Mode:** Standard Letter
- MUS 18612 SINGER'S DICTION II 1 Credit Hour**  
Foundational training and performance practice in phonetics and singing diction for the vocal repertoire of French, German and selected other languages.  
**Prerequisite:** MUS 18611 with a C grade; and music major.  
**Schedule Type:** Lecture  
**Contact Hours:** 1 lecture  
**Grade Mode:** Standard Letter
- MUS 20295 SPECIAL TOPICS IN MUSIC 1-3 Credit Hours**  
(Repeatable for credit) Academic study in areas not offered adequately in the music curriculum. Topic areas are of special interest to the faculty member.  
**Prerequisite:** Music major.  
**Schedule Type:** Lecture  
**Contact Hours:** 1-3 lecture  
**Grade Mode:** Standard Letter
- MUS 21111 THEORY III 4 Credit Hours**  
Study of Western art music from the sixteenth through eighteenth centuries. Emphasis on analytical, aural, compositional, and keyboard components of music theory.  
**Prerequisite:** MUS 11122 with a minimum C grade.  
**Schedule Type:** Laboratory, Lecture  
**Contact Hours:** 3 lecture, 2 lab  
**Grade Mode:** Standard Letter  
**Attributes:** TAG Arts and Humanities
- MUS 21112 THEORY IV 4 Credit Hours**  
Study of Western art music from the nineteenth and early twentieth centuries. Emphasis on analytical, aural, compositional and keyboard components of music theory.  
**Prerequisite:** MUS 21111 with a minimum C grade.  
**Schedule Type:** Laboratory, Lecture  
**Contact Hours:** 3 lecture, 2 lab  
**Grade Mode:** Standard Letter  
**Attributes:** TAG Arts and Humanities
- MUS 21113 MUSIC PRODUCTION I 3 Credit Hours**  
A practical introduction to digital audio production, study of basic computer assisted recording, editing and music production.  
**Prerequisite:** None.  
**Schedule Type:** Lecture  
**Contact Hours:** 3 lecture  
**Grade Mode:** Standard Letter
- MUS 21114 MUSIC PRODUCTION II 3 Credit Hours**  
A practical study of computer assisted composition and arranging covering MIDI, sequencing, synthesis, sampling and video synchronization.  
**Prerequisite:** MUS 21113 and 21221 with minimum C grade.  
**Schedule Type:** Lecture  
**Contact Hours:** 3 lecture  
**Grade Mode:** Standard Letter

**MUS 21211 CLASS COMPOSITION I 2 Credit Hours**

Introduction to beginning concepts involved with composing. Students in non-music majors may register for the course with departmental approval.

**Prerequisite:** Music major Music Education major or Music Technology major.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**MUS 21212 CLASS COMPOSITION II 2 Credit Hours**

Application of beginning concepts involved with composing.

**Prerequisite:** MUS 21211 with a minimum C grade.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**MUS 21221 AUDIO RECORDING I 3 Credit Hours**

A study of fundamental studio recording technology, theory and techniques, including signal flow, microphone theory, the human auditory system, analog audio consoles and standard industry Digital Audio Workstations (DAWs).

**Prerequisite:** MUS 21113 with a minimum C grade.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MUS 21222 AUDIO RECORDING II 3 Credit Hours**

A continuation of audio theory and techniques addressed in Audio Recording I. This includes study of the decibel, digital audio theory, microphone techniques, fundamental multi-track recording techniques as well as DAW session setup, file management and recording session etiquette.

**Prerequisite:** MUS 21221 with a minimum C grade.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MUS 21341 CONTEMPORARY POPULAR MUSIC THEORY 3 Credit Hours**

Application of the knowledge gained from Music Theory (MUS 11121 and 11122) to the study of popular music through practical applications, particularly with regard to composition and improvisation.

**Prerequisite:** MUS 11122 with a minimum C grade.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MUS 22111 THE UNDERSTANDING OF MUSIC (KFA) 3 Credit Hours**

A listening approach for the understanding of Western art music, folk and jazz. Particular attention is paid to musical styles forms and compositional techniques as related to music history.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Kent Core Fine Arts, Transfer Module Fine Arts

**MUS 22121 MUSIC AS A WORLD PHENOMENON (DIVG) (KFA) 3 Credit Hours**

An introduction to music as a world phenomenon. Study of selected art, folk and popular music from world cultures through live performances, tapes, films, video tapes and readings.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Diversity Global, Kent Core Fine Arts, Transfer Module Fine Arts

**MUS 22131 SURVEY OF ROCK MUSIC HISTORY (DIVD) 3 Credit Hours**

A survey of Rock Music History from the 1950s through the twentieth century to today. Emphasis is on recognizing music literature, prominent artists and music styles, as well as related cultural events. Modern media, especially the Internet, is an integral component of the course.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Diversity Domestic

**MUS 23241 MUSIC TEACHING AS A PROFESSION 2 Credit Hours**

Basic teaching strategies and techniques; an overview of music teaching as a career; diversity, integration, curriculum technology, classroom management, legal issues, personal skills and portfolio. Twenty (20) field hours required.

**Prerequisite:** Music or music education major.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**MUS 25011 UNIVERSITY CHORUS 1 Credit Hour**

(Repeatable for credit) Choral ensemble which studies and performs sacred and secular music for mixed voices. Activities include performance on and off campus.

**Prerequisite:** Special approval.

**Schedule Type:** Lecture

**Contact Hours:** 1 lecture

**Grade Mode:** Standard Letter

**Attributes:** TAG Arts and Humanities

**MUS 25225 UNIVERSITY BAND 1 Credit Hour**

(Repeatable for credit) Study and performance of music literature for wind band appropriate for music majors and non-majors.

**Prerequisite:** None.

**Schedule Type:** Laboratory

**Contact Hours:** 1 lab

**Grade Mode:** Standard Letter

**MUS 25311 CHAMBER MUSIC 1 Credit Hour**

(Repeatable for credit) The study and performance of music for small ensembles.

**Prerequisite:** Permission.

**Schedule Type:** Laboratory

**Contact Hours:** 1 lab

**Grade Mode:** Standard Letter



**MUS 25312 WORLD MUSIC ENSEMBLE 1 Credit Hour**

(Repeatable for credit) The World Music Ensemble teaches performance and cultural etiquette associated with traditional and popular world music genres, e.g., African drumming. Specific traditions studied include areas of specialization of instructors and or advanced student participants.

**Prerequisite:** None.

**Schedule Type:** Studio

**Contact Hours:** 2 other

**Grade Mode:** Standard Letter

**MUS 26111 APPLIED MUSIC PIANO 2,4 Credit Hours**

(Repeatable for credit) A comprehensive study of performance, technique and repertoire appropriate to lower division study. Individual instruction.

An audition is required. This course meets program requirements in the Bachelor of Science in Music Technology program only.

**Prerequisite:** 26000 Applied Must Test - audition.

**Schedule Type:** Private Lesson, Studio

**Contact Hours:** 2-4 other

**Grade Mode:** Standard Letter

**MUS 26311 APPLIED MUSIC VOICE 2,4 Credit Hours**

(Repeatable for credit) A comprehensive study of performance, technique and repertoire appropriate to lower division study. Individual instruction.

An audition is required. This course meets program requirements in the Bachelor of Science in Music Technology program only.

**Prerequisite:** 26000 Applied Music Test - audition.

**Schedule Type:** Private Lesson, Studio

**Contact Hours:** 2-4 other

**Grade Mode:** Standard Letter

**MUS 26411 APPLIED MUSIC - VIOLIN 2,4 Credit Hours**

(Repeatable for credit) A comprehensive study of performance, technique and repertoire appropriate to lower division study. Individual instruction.

An audition is required. This course meets program requirements in the Bachelor of Science in Music Technology program only.

**Prerequisite:** 26000 Applied Music Test.

**Schedule Type:** Private Lesson, Studio

**Contact Hours:** 1.5-2 other

**Grade Mode:** Standard Letter

**MUS 26412 APPLIED MUSIC - VIOLA 2,4 Credit Hours**

(Repeatable for credit) A comprehensive study of performance, technique and repertoire appropriate to lower division study. Individual instruction.

An audition is required. This course meets program requirements in the Bachelor of Science in Music Technology program only.

**Prerequisite:** 26000 Applied Music Test.

**Schedule Type:** Private Lesson, Studio

**Contact Hours:** 1.5-2 other

**Grade Mode:** Standard Letter

**MUS 26413 APPLIED MUSIC - CELLO 2,4 Credit Hours**

(Repeatable for credit) A comprehensive study of performance, technique and repertoire appropriate to lower division study. Individual instruction.

An audition is required. This course meets program requirements in the Bachelor of Science in Music Technology program only.

**Prerequisite:** 26000 Applied Music Test.

**Schedule Type:** Private Lesson, Studio

**Contact Hours:** 1.5-2 other

**Grade Mode:** Standard Letter

**MUS 26414 APPLIED MUSIC DOUBLE BASS 2,4 Credit Hours**

(Repeatable for credit) A comprehensive study of performance, technique and repertoire appropriate to lower division study. Individual instruction.

An audition is required. This course meets program requirements in the Bachelor of Science in Music Technology program only.

**Prerequisite:** 26000 Applied Music Test - audition.

**Schedule Type:** Private Lesson, Studio

**Contact Hours:** 2-4 other

**Grade Mode:** Standard Letter

**MUS 26511 APPLIED MUSIC - FLUTE 2,4 Credit Hours**

(Repeatable for credit) A comprehensive study of performance, technique and repertoire appropriate to lower division study. Individual instruction.

An audition is required. This course meets program requirements in the Bachelor of Science in Music Technology program only.

**Prerequisite:** 26000 Applied Music Test.

**Schedule Type:** Private Lesson, Studio

**Contact Hours:** 1.5-2 other

**Grade Mode:** Standard Letter

**MUS 26512 APPLIED MUSIC - OBOE 2,4 Credit Hours**

(Repeatable for credit) A comprehensive study of performance, technique and repertoire appropriate to lower division study. Individual instruction.

An audition is required. This course meets program requirements in the Bachelor of Science in Music Technology program only.

**Prerequisite:** 26000 Applied Music Test.

**Schedule Type:** Private Lesson, Studio

**Contact Hours:** 1.5-2 other

**Grade Mode:** Standard Letter

**MUS 26513 APPLIED MUSIC - CLARINET 2,4 Credit Hours**

(Repeatable for credit) A comprehensive study of performance, technique and repertoire appropriate to lower division study. Individual instruction.

An audition is required. This course meets program requirements in the Bachelor of Science in Music Technology program only.

**Prerequisite:** 26000 Applied Music Test.

**Schedule Type:** Private Lesson, Studio

**Contact Hours:** 1.5-2 other

**Grade Mode:** Standard Letter

**MUS 26514 APPLIED MUSIC - BASSOON 2,4 Credit Hours**

(Repeatable for credit) A comprehensive study of performance, technique and repertoire appropriate to lower division study. Individual instruction.

An audition is required. This course meets program requirements in the Bachelor of Science in Music Technology program only.

**Prerequisite:** 26000 Applied Music Test.

**Schedule Type:** Private Lesson, Studio

**Contact Hours:** 1.5-2 other

**Grade Mode:** Standard Letter

**MUS 26515 APPLIED MUSIC - SAXOPHONE 2,4 Credit Hours**

(Repeatable for credit) A comprehensive study of performance, technique and repertoire appropriate to lower division study. Individual instruction.

An audition is required. This course meets program requirements in the Bachelor of Science in Music Technology program only.

**Prerequisite:** 26000 Applied Music Test.

**Schedule Type:** Private Lesson, Studio

**Contact Hours:** 1.5-2 other

**Grade Mode:** Standard Letter

**MUS 26611 APPLIED MUSIC - TRUMPET 2,4 Credit Hours**  
 (Repeatable for credit) A comprehensive study of performance, technique and repertoire appropriate to lower division study. Individual instruction. An audition is required. This course meets program requirements in the Bachelor of Science in Music Technology program only.  
**Prerequisite:** 26000 Applied Music Test.  
**Schedule Type:** Private Lesson, Studio  
**Contact Hours:** 1.5-2 other  
**Grade Mode:** Standard Letter

**MUS 26612 APPLIED MUSIC - HORN 2,4 Credit Hours**  
 (Repeatable for credit) A comprehensive study of performance, technique and repertoire appropriate to lower division study. Individual instruction. An audition is required. This course meets program requirements in the Bachelor of Science in Music Technology program only.  
**Prerequisite:** 26000 Applied Music Test.  
**Schedule Type:** Private Lesson, Studio  
**Contact Hours:** 1.5-2 other  
**Grade Mode:** Standard Letter

**MUS 26613 APPLIED MUSIC - TROMBONE 2,4 Credit Hours**  
 (Repeatable for credit) A comprehensive study of performance, technique and repertoire appropriate to lower division study. Individual instruction. An audition is required. This course meets program requirements in the Bachelor of Science in Music Technology program only.  
**Prerequisite:** 26000 Applied Music Test.  
**Schedule Type:** Private Lesson, Studio  
**Contact Hours:** 1.5-2 other  
**Grade Mode:** Standard Letter

**MUS 26614 APPLIED MUSIC - EUPHONIUM 2,4 Credit Hours**  
 (Repeatable for credit) A comprehensive study of performance, technique and repertoire appropriate to lower division study. Individual instruction. An audition is required. This course meets program requirements in the Bachelor of Science in Music Technology program only.  
**Prerequisite:** 26000 Applied Music Test.  
**Schedule Type:** Private Lesson, Studio  
**Contact Hours:** 1.5-2 other  
**Grade Mode:** Standard Letter

**MUS 26615 APPLIED MUSIC - TUBA 2,4 Credit Hours**  
 (Repeatable for credit) A comprehensive study of performance, technique and repertoire appropriate to lower division study. Individual instruction. An audition is required. This course meets program requirements in the Bachelor of Science in Music Technology program only.  
**Prerequisite:** 26000 Applied Music Test.  
**Schedule Type:** Private Lesson, Studio  
**Contact Hours:** 1.5-2 other  
**Grade Mode:** Standard Letter

**MUS 26711 APPLIED MUSIC PERCUSSION 2,4 Credit Hours**  
 (Repeatable for credit) A comprehensive study of performance, technique and repertoire appropriate to lower division study. Individual instruction. An audition is required. This course meets program requirements in the Bachelor of Science in Music Technology program only.  
**Prerequisite:** 26000 Applied Music Test - audition.  
**Schedule Type:** Private Lesson, Studio  
**Contact Hours:** 2-4 other  
**Grade Mode:** Standard Letter

**MUS 26912 APPLIED MUSIC GUITAR 2,4 Credit Hours**  
 (Repeatable for credit) A comprehensive study of performance, technique and repertoire appropriate to lower division study. Individual instruction. An audition is required. This course meets program requirements in the Bachelor of Science in Music Technology program only.  
**Prerequisite:** 26000 Applied Music Test - audition.  
**Schedule Type:** Private Lesson, Studio  
**Contact Hours:** 2-4 other  
**Grade Mode:** Standard Letter

**MUS 27111 PIANO CLASS III 2 Credit Hours**  
 Continuation of piano classes. Credit acceptable on music major and minor sequences.  
**Prerequisite:** MUS 17112 with a minimum C grade.  
**Schedule Type:** Lecture  
**Contact Hours:** 2 lecture  
**Grade Mode:** Standard Letter

**MUS 27112 PIANO CLASS IV 2 Credit Hours**  
 Continuation of piano classes. Credit acceptable on music major and minor sequences.  
**Prerequisite:** MUS 27111 with a minimum C grade.  
**Schedule Type:** Lecture  
**Contact Hours:** 2 lecture  
**Grade Mode:** Standard Letter

**MUS 31113 MUSIC PRODUCTION III 3 Credit Hours**  
 Continuation of Music Production II. Advanced sequencing, synthesis and audio editing techniques as applied to music production. Focus is on arranging.  
**Prerequisite:** Minimum C grade in MUS 11121, MUS 21114, and MUS 21222; and 36000 applied music threshold.  
**Schedule Type:** Lecture  
**Contact Hours:** 3 lecture  
**Grade Mode:** Standard Letter

**MUS 31114 MUSIC PRODUCTION IV 3 Credit Hours**  
 Continuation of Music Production III. Arranging for acoustic and electronic instruments as applied to music production. Development of MIDI programming skills and use of sample sets.  
**Prerequisite:** MUS 31113 with a minimum C grade; and music technology major.  
**Schedule Type:** Lecture  
**Contact Hours:** 3 lecture  
**Grade Mode:** Standard Letter

**MUS 31121 WESTERN MUSIC SINCE 1900 2 Credit Hours**  
 Class meets three hours per week. The study of western art music since 1900 from historical and theoretical viewpoints. Emphasis on aural listening music composition and written skills as well as intellectual understanding.  
**Prerequisite:** MUS 21112 and MUS 32212 with a minimum C grade.  
**Schedule Type:** Laboratory, Lecture, Combined Lecture and Lab  
**Contact Hours:** 1 lecture, 2 lab  
**Grade Mode:** Standard Letter

**MUS 31211 COMPOSITION 2-4 Credit Hours**  
 (Repeatable for credit) Original composition for instrumental and vocal solos and small ensembles using shorter musical forms.  
**Prerequisite:** MUS 21212 with a minimum C grade; and Music major or Music Education major.  
**Schedule Type:** Private Lesson, Studio  
**Contact Hours:** 7.5-15 other  
**Grade Mode:** Standard Letter

**MUS 31221 AUDIO RECORDING III 3 Credit Hours**

A study of advanced recording and record production techniques. Topics include pre-production planning, instrument-specific single and multi-mic techniques, re-amping and other techniques.

**Prerequisite:** Minimum C grade in MUS 11121, MUS 21114 and MUS 21222; and 36000 applied music threshold.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MUS 31222 AUDIO RECORDING IV 3 Credit Hours**

A detailed study of the tools, techniques and critical listening decisions required in creating a professional audio mx.

**Prerequisite:** MUS 31221 with a minimum C grade.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MUS 32211 MUSIC HISTORY I 3 Credit Hours**

A study of Western music history from the early Christian chants through the Early Classical style.

**Prerequisite:** MUS 22111 (music major section) with a minimum C grade; and junior standing.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 2 lecture, 2 lab

**Grade Mode:** Standard Letter

**MUS 32212 MUSIC HISTORY II (WIC) 3 Credit Hours**

A study of Western music history from the Classical style period to the present.

**Prerequisite:** MUS 22111 (music major section) and MUS 32211 with a minimum C grade; and junior standing.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 2 lecture, 2 lab

**Grade Mode:** Standard Letter

**Attributes:** Writing Intensive Course

**MUS 32230 NAVIGATING THE MUSIC INDUSTRY 3 Credit Hours**

An overview and study of the music industry. Current practices are examined including artist contracts, music copyright and licensing, and revenue flow from music consumers to content creators. Special emphasis is placed on entrepreneurial activity within the music industry.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MUS 33211 ELEMENTARY AND SECONDARY GENERAL MUSIC 4 Credit Hours**

Kodaly, Orff, Dalcroze and current strategies appropriate for early childhood K-12 general music classrooms. Emphasis on teaching diverse learners, including special student populations. Clinical experience in the teaching of general music in the schools. Forty (40) field hours required.

**Prerequisite:** Admission to advanced study; and MUS 23241 with a minimum C grade; and music or music education major; and junior standing.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 3 lecture, 1 lab

**Grade Mode:** Standard Letter

**MUS 33214 MUSIC TECHNOLOGY FOR MUSIC EDUCATORS 1 Credit Hour**

The application of technologies specific to music instruction and learning for music education majors. Emphasis is placed on project-based instruction focusing on the practical uses of technology in school settings.

**Prerequisite:** Music education major.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 1 lecture, 1 lab

**Grade Mode:** Standard Letter

**MUS 33231 ELEMENTARY AND SECONDARY CHORAL MUSIC 4 Credit Hours**

Methods, materials, and literature used in elementary and secondary choral music programs; designing a choral curriculum, advocacy and assessment, lesson planning, program organization, budget. Clinical experience in the teaching of choral music. Forty (40) field hours required.

**Prerequisite:** Admission to advanced study; and MUS 23241 and 34111 with a minimum C grade; and junior standing.

**Schedule Type:** Laboratory, Lecture, Combined Lecture and Lab

**Contact Hours:** 3 lecture, 2 lab

**Grade Mode:** Standard Letter

**MUS 33314 PROGRESSIVE AND VERNACULAR MUSIC METHODS 2 Credit Hours**

Elementary through secondary instruction in music methods related to vernacular and popular music styles. Students will gain experience in lesson planning, program organization, recruiting, and performing with ensembles that exist outside of the band-orchestra-chorus model including, but not limited to, rock bands, technology-based ensembles, and other non-traditional ensembles. Experiences will focus on popular and vernacular music-making techniques, facilitating small- and large-group instruction, and incorporating these experiences within the traditional school music setting.

**Prerequisite:** Admission to advanced study; and MUS 23241 with a minimum C grade; and music education major; and completion of the music education professional evaluation.

**Schedule Type:** Laboratory, Lecture, Combined Lecture and Lab

**Contact Hours:** 1 lecture, 2 lab

**Grade Mode:** Standard Letter

**MUS 34111 INTRODUCTION TO CONDUCTING 2 Credit Hours**

Introduction to and study of conducting: beat patterns, baton techniques, score reading, analysis and interpretive elements. Six field/clinical hours are required.

**Prerequisite:** MUS 11122 with a minimum C grade; and junior standing.

**Schedule Type:** Laboratory, Lecture, Combined Lecture and Lab

**Contact Hours:** 1 lecture, 2 lab

**Grade Mode:** Standard Letter

**MUS 34211 ELEMENTARY AND SECONDARY GENERAL MUSIC 2 Credit Hours**

Kodaly, Orff, Dalcroze, and current strategies appropriate for early childhood K-12 general music classrooms. Emphasis on teaching diverse learners, including special student populations. Clinical experience in the teaching of general music in the schools. Thirty (30) field hours required.

**Prerequisite:** Admission to advanced study; and MUS 23241 with a minimum C grade; and music or music education major; and completion of the music education professional evaluation; and junior standing.

**Schedule Type:** Laboratory, Lecture, Combined Lecture and Lab

**Contact Hours:** 1 lecture, 3 lab

**Grade Mode:** Standard Letter

**MUS 34212 ELEMENTARY AND SECONDARY CHORAL MUSIC 2 Credit Hours**

Methods, materials, and literature used in elementary and secondary choral music programs; designing a choral curriculum, advocacy and assessment, lesson planning, program organization, budget. Clinical experience in the teaching of choral music. Thirty (30) field hours required.

**Prerequisite:** Admission to advanced study; and MUS 23241 and 34111 with a minimum C grade; and completion of the music education professional evaluation; and junior standing.

**Schedule Type:** Laboratory, Lecture, Combined Lecture and Lab

**Contact Hours:** 1 lecture, 3 lab

**Grade Mode:** Standard Letter

**MUS 35213 STUDIO ENSEMBLE 1 Credit Hour**

(Repeatable for a maximum of 16 credit hours) Development of ensemble skills through small group experience performing diverse popular styles from notation, developing improvisation skills and creating arrangements from lead charts. Students must audition for the director prior to registration for the course.

**Prerequisite:** Special approval.

**Schedule Type:** Studio

**Contact Hours:** 2 other

**Grade Mode:** Standard Letter

**MUS 36011 APPLIED MUSIC - JAZZ 2,4 Credit Hours**

(Repeatable for credit) Private instrumental instruction in Jazz techniques.

**Prerequisite:** Audition; and special approval.

**Schedule Type:** Private Lesson

**Contact Hours:** 1.5-2 other

**Grade Mode:** Standard Letter

**MUS 36111 APPLIED MUSIC-PIANO 2,4 Credit Hours**

(Repeatable for credit) A comprehensive study of performance, technique and repertoire appropriate to music majors and minors. Individual study. Students must audition to be accepted into this course.

**Prerequisite:** Music, music technology or music education major.

**Schedule Type:** Private Lesson, Studio

**Contact Hours:** 1.5-2 other

**Grade Mode:** Standard Letter

**Attributes:** TAG Arts and Humanities

**MUS 36311 APPLIED MUSIC-VOICE 2,4 Credit Hours**

(Repeatable for credit) A comprehensive study of performance, technique and repertoire appropriate to music majors and minors. Individual study. Students must audition to be accepted into this course.

**Prerequisite:** Music, music technology or music education major.

**Schedule Type:** Private Lesson, Studio

**Contact Hours:** 1 other

**Grade Mode:** Standard Letter

**Attributes:** TAG Arts and Humanities

**MUS 36411 APPLIED MUSIC-VIOLIN 2,4 Credit Hours**

(Repeatable for credit) A comprehensive study of performance, technique and repertoire appropriate to music majors and minors. Individual study. Students must audition to be accepted into this course.

**Prerequisite:** Music, music technology or music education major.

**Schedule Type:** Private Lesson, Studio

**Contact Hours:** 1 other

**Grade Mode:** Standard Letter

**Attributes:** TAG Arts and Humanities

**MUS 36412 APPLIED MUSIC-VIOLA 2,4 Credit Hours**

(Repeatable for credit) A comprehensive study of performance, technique and repertoire appropriate to music majors and minors. Individual study. Students must audition to be accepted into this course.

**Prerequisite:** Music, music technology or music education major.

**Schedule Type:** Private Lesson, Studio

**Contact Hours:** 1 other

**Grade Mode:** Standard Letter

**Attributes:** TAG Arts and Humanities

**MUS 36413 APPLIED MUSIC-CELLO 2,4 Credit Hours**

(Repeatable for credit) A comprehensive study of performance, technique and repertoire appropriate to music majors and minors. Individual study. Students must audition to be accepted into this course.

**Prerequisite:** Music, music technology or music education major.

**Schedule Type:** Private Lesson, Studio

**Contact Hours:** 1 other

**Grade Mode:** Standard Letter

**Attributes:** TAG Arts and Humanities

**MUS 36414 APPLIED MUSIC-DOUBLE BASS 2,4 Credit Hours**

(Repeatable for credit) A comprehensive study of performance, technique and repertoire appropriate to music majors and minors. Individual study. Students must audition to be accepted into this course.

**Prerequisite:** Music, music technology or music education major.

**Schedule Type:** Private Lesson, Studio

**Contact Hours:** 1 other

**Grade Mode:** Standard Letter

**Attributes:** TAG Arts and Humanities

**MUS 36511 APPLIED MUSIC-FLUTE 2,4 Credit Hours**

(Repeatable for credit) A comprehensive study of performance, technique and repertoire appropriate to music majors and minors. Individual study. Students must audition to be accepted into this course.

**Prerequisite:** Music, music technology or music education major.

**Schedule Type:** Private Lesson, Studio

**Contact Hours:** 1 other

**Grade Mode:** Standard Letter

**Attributes:** TAG Arts and Humanities

**MUS 36512 APPLIED MUSIC-OBOE 2,4 Credit Hours**

(Repeatable for credit) A comprehensive study of performance, technique and repertoire appropriate to music majors and minors. Individual study. Students must audition to be accepted into this course.

**Prerequisite:** Music, music technology or music education major.

**Schedule Type:** Private Lesson, Studio

**Contact Hours:** 1 other

**Grade Mode:** Standard Letter

**Attributes:** TAG Arts and Humanities

**MUS 36513 APPLIED MUSIC-CLARINET 2,4 Credit Hours**

(Repeatable for credit) A comprehensive study of performance, technique and repertoire appropriate to music majors and minors. Individual study. Students must audition to be accepted into this course.

**Prerequisite:** Music, music technology or music education major.

**Schedule Type:** Private Lesson, Studio

**Contact Hours:** 1 other

**Grade Mode:** Standard Letter

**Attributes:** TAG Arts and Humanities



**MUS 36514 APPLIED MUSIC-BASSOON 2,4 Credit Hours**

(Repeatable for credit) A comprehensive study of performance, technique and repertoire appropriate to music majors and minors. Individual study. Students must audition to be accepted into this course.

**Prerequisite:** Music, music technology or music education major.

**Schedule Type:** Private Lesson, Studio

**Contact Hours:** 1 other

**Grade Mode:** Standard Letter

**Attributes:** TAG Arts and Humanities

**MUS 36515 APPLIED MUSIC-SAXOPHONE 2,4 Credit Hours**

(Repeatable for credit) A comprehensive study of performance, technique and repertoire appropriate to music majors and minors. Individual study. Students must audition to be accepted into this course.

**Prerequisite:** Music, music technology or music education major.

**Schedule Type:** Private Lesson, Studio

**Contact Hours:** 1 other

**Grade Mode:** Standard Letter

**Attributes:** TAG Arts and Humanities

**MUS 36611 APPLIED MUSIC-TRUMPET 2,4 Credit Hours**

(Repeatable for credit) A comprehensive study of performance, technique and repertoire appropriate to music majors and minors. Individual study. Students must audition to be accepted into this course.

**Prerequisite:** Music, music technology or music education major.

**Schedule Type:** Private Lesson, Studio

**Contact Hours:** 1 other

**Grade Mode:** Standard Letter

**Attributes:** TAG Arts and Humanities

**MUS 36612 APPLIED MUSIC-HORN 2,4 Credit Hours**

(Repeatable for credit) A comprehensive study of performance, technique and repertoire appropriate to music majors and minors. Individual study. Students must audition to be accepted into this course.

**Prerequisite:** Music, music technology or music education major.

**Schedule Type:** Private Lesson, Studio

**Contact Hours:** 1 other

**Grade Mode:** Standard Letter

**Attributes:** TAG Arts and Humanities

**MUS 36613 APPLIED MUSIC-TROMBONE 2,4 Credit Hours**

(Repeatable for credit) A comprehensive study of performance, technique and repertoire appropriate to music majors and minors. Individual study. Students must audition to be accepted into this course.

**Prerequisite:** Music, music technology or music education major.

**Schedule Type:** Private Lesson, Studio

**Contact Hours:** 1 other

**Grade Mode:** Standard Letter

**Attributes:** TAG Arts and Humanities

**MUS 36614 APPLIED MUSIC-EUPHONIUM 2,4 Credit Hours**

(Repeatable for credit) A comprehensive study of performance, technique and repertoire appropriate to music majors and minors. Individual study. Students must audition to be accepted into this course.

**Prerequisite:** Music, music technology or music education major.

**Schedule Type:** Private Lesson, Studio

**Contact Hours:** 1 other

**Grade Mode:** Standard Letter

**Attributes:** TAG Arts and Humanities

**MUS 36615 APPLIED MUSIC-TUBA 2,4 Credit Hours**

(Repeatable for credit) A comprehensive study of performance, technique and repertoire appropriate to music majors and minors. Individual study. Students must audition to be accepted into this course.

**Prerequisite:** Music, music technology or music education major.

**Schedule Type:** Private Lesson, Studio

**Contact Hours:** 1 other

**Grade Mode:** Standard Letter

**Attributes:** TAG Arts and Humanities

**MUS 36711 APPLIED MUSIC-PERCUSSION 2,4 Credit Hours**

(Repeatable for credit) A comprehensive study of performance, technique and repertoire appropriate to music majors and minors. Individual study. Students must audition to be accepted into this course.

**Prerequisite:** Music, music technology or music education major.

**Schedule Type:** Private Lesson, Studio

**Contact Hours:** 1 other

**Grade Mode:** Standard Letter

**Attributes:** TAG Arts and Humanities

**MUS 36912 APPLIED MUSIC-GUITAR 2,4 Credit Hours**

(Repeatable for credit) A comprehensive study of performance, technique and repertoire appropriate to music majors and minors. Individual study. Students must audition to be accepted into this course.

**Prerequisite:** Music, music technology or music education major.

**Schedule Type:** Private Lesson, Studio

**Contact Hours:** 1.5-2 other

**Grade Mode:** Standard Letter

**Attributes:** TAG Arts and Humanities

**MUS 36913 APPLIED STUDIO MUSICIANSHIP 2-4 Credit Hours**

(Repeatable for a maximum of 16 credit hours) Development of performance proficiency in contemporary popular music styles appropriate for the performance idiom through individual instruction. Students must audition for the director prior to registration for the course.

**Prerequisite:** Special approval.

**Schedule Type:** Studio

**Contact Hours:** 2-4 other

**Grade Mode:** Standard Letter

**MUS 36914 ELECTRIC GUITAR APPLIED STUDIO MUSICIANSHIP 2-4 Credit Hours**

(Repeatable for credit) Development of performance proficiency in popular music styles. An audition is required.

**Prerequisite:** Music and music technology majors; and special approval.

**Schedule Type:** Private Lesson, Studio

**Contact Hours:** 2-4 other

**Grade Mode:** Standard Letter

**MUS 36915 ELECTRIC BASS APPLIED STUDIO MUSICIANSHIP 2-4 Credit Hours**

(Repeatable for credit) Development of performance proficiency in popular music styles.

**Prerequisite:** Music and music technology majors.

**Schedule Type:** Private Lesson, Studio

**Contact Hours:** 2-4 other

**Grade Mode:** Standard Letter



**MUS 36916 DRUM SET PERCUSSION APPLIED STUDIO MUSICIANSHIP 2,4 Credit Hours**

(Repeatable for credit) Development of performance proficiency in popular music styles. An audition is required.

**Prerequisite:** Music and music technology majors; and special approval.

**Schedule Type:** Private Lesson, Studio

**Contact Hours:** 2-4 other

**Grade Mode:** Standard Letter

**MUS 36917 KEYBOARD APPLIED STUDIO MUSICIANSHIP 2-4 Credit Hours**

(Repeatable for credit) Development of performance proficiency in popular music styles. An audition is required.

**Prerequisite:** Music and music technology majors; and special approval.

**Schedule Type:** Private Lesson, Studio

**Contact Hours:** 2-4 other

**Grade Mode:** Standard Letter

**MUS 36918 CONTEMPORARY VOICE APPLIED STUDIO MUSICIANSHIP 2,4 Credit Hours**

(Repeatable for credit) Development of performance proficiency in popular music styles. An audition is required.

**Prerequisite:** Music and music technology majors; and special approval.

**Schedule Type:** Private Lesson, Studio

**Contact Hours:** 2-4 other

**Grade Mode:** Standard Letter

**MUS 36919 FLUTE APPLIED STUDIO MUSICIANSHIP 2,4 Credit Hours**

(Repeatable for credit) Development of performance proficiency in popular music styles. An audition is required.

**Prerequisite:** Music major or music technology major.

**Schedule Type:** Private Lesson, Studio

**Contact Hours:** 1.5-2 other

**Grade Mode:** Standard Letter

**MUS 36920 CLARINET APPLIED STUDIO MUSICIANSHIP 2,4 Credit Hours**

(Repeatable for credit) Development of performance proficiency in popular music styles. An audition is required.

**Prerequisite:** Music major or music technology major.

**Schedule Type:** Private Lesson, Studio

**Contact Hours:** 1.5-2 other

**Grade Mode:** Standard Letter

**MUS 36921 SAXOPHONE APPLIED STUDIO MUSICIANSHIP 2,4 Credit Hours**

(Repeatable for credit) Development of performance proficiency in popular music styles. An audition is required.

**Prerequisite:** Music major or music technology major.

**Schedule Type:** Private Lesson, Studio

**Contact Hours:** 1.5-2 other

**Grade Mode:** Standard Letter

**MUS 36922 TRUMPET APPLIED STUDIO MUSICIANSHIP 2,4 Credit Hours**

(Repeatable for credit) Development of performance proficiency in popular music styles. An audition is required.

**Prerequisite:** Music major or music technology major.

**Schedule Type:** Private Lesson, Studio

**Contact Hours:** 1.5-2 other

**Grade Mode:** Standard Letter

**MUS 36923 HORN APPLIED STUDIO MUSICIANSHIP 2,4 Credit Hours**

(Repeatable for credit) Development of performance proficiency in popular music styles. An audition is required.

**Prerequisite:** Music major or music technology major.

**Schedule Type:** Private Lesson, Studio

**Contact Hours:** 1.5-2 other

**Grade Mode:** Standard Letter

**MUS 36924 TROMBONE APPLIED STUDIO MUSICIANSHIP 2,4 Credit Hours**

(Repeatable for credit) Development of performance proficiency in popular music styles. An audition is required.

**Prerequisite:** Music major or music technology major.

**Schedule Type:** Private Lesson, Studio

**Contact Hours:** 1.5-2 other

**Grade Mode:** Standard Letter

**MUS 37111 CONTEMPORARY POPULAR PIANO 2 Credit Hours**

Development of keyboard applications in contemporary popular music styles with a focus on music theory.

**Prerequisite:** MUS 17112 with a minimum C grade.

**Corequisite:** MUS 21341.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**MUS 37113 PIANO SKILLS FOR THE CHORAL/GENERAL MUSIC EDUCATOR 2 Credit Hours**

Development of keyboard skills for practical purposes in the classroom and ensemble rehearsals.

**Prerequisite:** MUS 11122 and 36111 with a minimum C grade.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**MUS 37114 PIANO SKILLS FOR THE INSTRUMENTAL MUSIC EDUCATOR 1 Credit Hour**

Development of keyboard skills for practical purposes in the classroom and ensemble rehearsals.

**Prerequisite:** MUS 11122 and MUS 17112 with a minimum C grade or minimum score of 80 on piano placement test.

**Schedule Type:** Laboratory

**Contact Hours:** 2 lab

**Grade Mode:** Standard Letter

**MUS 40092 MUSIC TECHNOLOGY INTERNSHIP (ELR) 2 Credit Hours**

(Repeatable for a maximum of 4 credit hours) On-the-job experience with cooperating business in the field of music technology and preparation of a final report or an applicable project. Students must have a minimum 2.250 major GPA to register for the course.

**Prerequisite:** MUS 31114 or MUS 31222 with a minimum C grade; and Music Technology major; and special approval.

**Schedule Type:** Practical Experience

**Contact Hours:** 8 other

**Grade Mode:** Standard Letter-IP

**Attributes:** Experiential Learning Requirement

**MUS 40295 SPECIAL TOPICS IN MUSIC 1-3 Credit Hours**  
(Repeatable for a total of 12 hours) Academic study in areas not offered adequately in the music curriculum. Topic areas are of special interest to the faculty member.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 1-3 lecture

**Grade Mode:** Standard Letter

**MUS 40296 INDEPENDENT STUDY:MUSIC 1-3 Credit Hours**  
(Repeatable for credit) Individual investigation in music topics not offered as either regular coursework or beyond the scope of existing music major courses.

**Prerequisite:** Music or music education major; and special approval.

**Schedule Type:** Individual Investigation

**Contact Hours:** 1-3 other

**Grade Mode:** Satisfactory/Unsatisfactory

**MUS 41011 AURAL MUSIC THEORY 1 Credit Hour**  
Focus on solfege singing, ear training, and aural analysis in preparation for graduate level music theory coursework.

**Prerequisite:** Special approval.

**Schedule Type:** Laboratory, Lecture, Combined Lecture and Lab

**Contact Hours:** .5 lecture, 1 lab

**Grade Mode:** Standard Letter

**MUS 41012 WRITTEN MUSIC THEORY 1 Credit Hour**  
Focus on harmony, counterpoint, and written analysis in preparation for graduate level music theory coursework.

**Prerequisite:** Special approval.

**Schedule Type:** Laboratory, Lecture, Combined Lecture and Lab

**Contact Hours:** .5 lecture, 1 lab

**Grade Mode:** Standard Letter

**MUS 41111 PRACTICUM IN MUSIC THEORY 2 Credit Hours**  
Ear training, sight singing and analysis in preparation for graduate level music theory course work.

**Prerequisite:** Permission.

**Schedule Type:** Private Lesson

**Contact Hours:** 2 other

**Grade Mode:** Standard Letter

**MUS 41112 WESTERN MUSIC SINCE 1945 1 Credit Hour**  
The study of Western art music since 1945 from historical and theoretical viewpoints. Emphasis on analysis, composition, listening and intellectual understanding.

**Prerequisite:** MUS 21112 and MUS 32212 with a minimum C grade.

**Schedule Type:** Laboratory

**Contact Hours:** 2 lab

**Grade Mode:** Standard Letter

**MUS 41113 MUSIC PRODUCTION V 3 Credit Hours**  
Continuation of Music Production IV, create music to accompany a visual medium by learning fundamental to more advanced film scoring techniques.

**Prerequisite:** MUS 31114 with a minimum C grade.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MUS 41114 MUSIC PRODUCTION VI 3 Credit Hours**  
Continuation of Music Production V, advanced sequencing, synthesis and audio editing techniques as applied to music production. Focus is on original music.

**Prerequisite:** MUS 41113 with a minimum C grade.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MUS 41131 KEYBOARD HARMONY 3 Credit Hours**  
Theoretical skills demonstrated at the keyboard: harmonization of melodies in homophonic style, realization of figured bass, score reading, modulation and improvisation.

**Prerequisite:** MUS 21112 with a minimum C grade.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MUS 41141 SIXTEENTH-CENTURY COUNTERPOINT 3 Credit Hours**  
Two-, three -and four part vocal counterpoint in 16th century style.

**Prerequisite:** MUS 21112 with a minimum C grade.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MUS 41151 EIGHTEENTH-CENTURY COUNTERPOINT 3 Credit Hours**  
Technique of writing counterpoint in 18th-century style, especially that of J. S. Bach.

**Prerequisite:** MUS 21112 with a minimum C grade.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MUS 41161 ADVANCED MUSICAL ANALYSIS 3 Credit Hours**  
A study of recent approaches to tonal and nontonal musical analysis. Emphasis on familiarity with styles, nomenclature and appropriate graphic techniques.

**Prerequisite:** MUS 41112 with a minimum C grade.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MUS 41181 ACOUSTICS AND TECHNOLOGY IN MUSIC 2 Credit Hours**  
An introduction to acoustics and psychoacoustics in direct relationship to music, and an introduction to uses of technology in music composition, performance, notation, theory, history and pedagogy.

**Prerequisite:** Music technology major.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**MUS 41211 COMPOSITION 2,4 Credit Hours**  
(Repeatable for credit) Study of the materials and techniques of musical composition culminating in original works based upon observable principles of unity and variety.

**Prerequisite:** Composition or music or music education major.

**Schedule Type:** Private Lesson, Studio

**Contact Hours:** 2-4 other

**Grade Mode:** Standard Letter

**MUS 41221 AUDIO RECORDING V 3 Credit Hours**

A continuation of Audio Recording IV. Covered topics include advanced mixing techniques using analog console automation, mixing for surround sound, and fundamentals of audio mastering.

**Prerequisite:** MUS 31222 with a minimum C grade.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MUS 41222 AUDIO RECORDING VI 3 Credit Hours**

A comprehensive record production experience from pre-production through recording, editing, mixing and mastering a complete audio project. Alternatively, students may opt to complete a research-based thesis document.

**Prerequisite:** MUS 41221 with a minimum C grade.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MUS 41299 SENIOR PROJECT:MUSIC COMPOSITION (ELR) 2 Credit Hours**

(Repeatable for credit)The final composition experience prior to graduation: a recital of individually composed works must be presented.

**Prerequisite:** MUS 41211 with a minimum C grade.

**Schedule Type:** Senior Project/Honors Thesis

**Contact Hours:** 2 other

**Grade Mode:** Standard Letter

**Attributes:** Experiential Learning Requirement

**MUS 41321 ORCHESTRATION 3 Credit Hours**

Ranges, tonal possibilities, technical limitations and transpositions for all orchestral instruments. Scoring techniques and analysis of representative instrumental ensemble repertoire.

**Prerequisite:** MUS 21112 with a minimum C grade.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MUS 41341 JAZZ IMPROVISATION I 1 Credit Hour**

(Repeatable for a total of 2 credit hours) A beginner's introduction to Jazz Improvisation. Theory and daily playing will be enhanced by ear training.

**Prerequisite:** Special approval.

**Schedule Type:** Laboratory

**Contact Hours:** 2 other

**Grade Mode:** Standard Letter

**MUS 41342 JAZZ COMPOSING AND ARRANGING 2 Credit Hours**

(Repeatable for credit) Composing and arranging for the large and small jazz ensemble.

**Prerequisite:** MUS 17013 with a minimum C grade.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**MUS 41351 JAZZ IMPROVISATION II 1 Credit Hour**

The presentation of a methodical approach to learning standard Jazz repertoire.

**Prerequisite:** MUS 41341 with a minimum C grade or special approval via audition.

**Schedule Type:** Laboratory

**Contact Hours:** 2 lab

**Grade Mode:** Standard Letter

**MUS 42101 ROOTS OF ROCK 3 Credit Hours**

Roots of Rock is a comprehensive survey of the various genres of American music in the 20th century that contributed to the development of rock music. Important performers in various styles and their contributions to the art form are explored. Pioneers in the fields of recording, artist management and production are studied. Rock music's contributions to the emergence of American culture are viewed in the context of social, racial and political changes. The impact of technological advances in radio, recording and television are also studied.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MUS 42111 AFRICAN MUSIC AND CULTURES 3 Credit Hours**

African music as related to social sciences and humanities. Oral traditions. Use of music recordings, tapes, musical instruments, participation in performance and group work involvement.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MUS 42131 AMERICA'S MUSIC 3 Credit Hours**

Historical survey of music in America from New England psalmody to present-day compositional trends.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MUS 42141 FOLK MUSIC OF EUROPE AND NORTH AMERICA 3 Credit Hours**

(Slashed with MUS 52141) Study of selected music cultures of Eastern and Western Europe, and South, Central and North America.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MUS 42151 ASIAN MUSICS 3 Credit Hours**

Survey of Asian musics. Emphasis on art, folk and popular musics and relationships of these musics to their respective cultures.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MUS 42161 HISTORY OF JAZZ (DIVD) 3 Credit Hours**

The evolution of jazz from its origin to present.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Diversity Domestic

**MUS 42162 JAZZ STYLES AND ANALYSIS 3 Credit Hours**

An approach to jazz history from the perspective of major artists such as: Louis Armstrong, Duke Ellington, Charlie Parker, Miles Davis and John Coltrane.

**Prerequisite:** MUS 41341 with a minimum C grade.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MUS 42165 HISTORY OF CONTEMPORARY POPULAR MUSIC (DIVD) (WIC) 3 Credit Hours**

A study of popular music from the 1950s to the present. Course content will highlight significant artists, examine important style elements, and expose students to a variety of repertoire. This course will emphasize music theory and orchestration to understand and differentiate style. An overview of the history and development of recording technology is an important component of this course.

**Prerequisite:** MUS 21341.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Diversity Domestic, Writing Intensive Course

**MUS 42181 POPULAR WORLD MUSIC (DIVG) 3 Credit Hours**

(Slashed with MUS 52181) A survey of popular world music genres from North America, the Caribbean, South America, Europe, Africa and Asia. Emphasis is on recognizing music literature, prominent artists and music styles, as well as related cultural events. Modern media, especially the Internet, is an integral component of the course.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Diversity Global

**MUS 42221 SYMPHONIC LITERATURE 3 Credit Hours**

Historical and stylistic survey of music for large instrumental ensemble.

**Prerequisite:** MUS 21112 with a minimum C grade.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MUS 42232 PIANO LITERATURE I 2 Credit Hours**

Survey of keyboard suites, sonatas and concerti from the 16th century to the present. Emphasis on performing, listening, and analysis.

**Prerequisite:** Music major.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**MUS 42241 PIANO LITERATURE 3 Credit Hours**

Survey of keyboard and piano literature from the 16th century to the present; study of related forms and styles. Emphasis on performing listening and analysis.

**Prerequisite:** Special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MUS 42242 PIANO LITERATURE II 2 Credit Hours**

Survey of character pieces and variations from the 16th century to the present. Emphasis on performing, listening, and analysis.

**Prerequisite:** Music major.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**MUS 42251 SONG LITERATURE 3 Credit Hours**

A study of vocal literature from the 16th century to the present. Emphasis upon the style, interpretation and presentation of solo materials for all voice classifications.

**Prerequisite:** MUS 22111 with a minimum C grade; and junior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MUS 42261 OPERA LITERATURE 3 Credit Hours**

The historical development of opera from the 17th century to the present. Detailed analysis of representative works.

**Prerequisite:** MUS 22111 with a minimum C grade; and junior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MUS 42271 CHORAL LITERATURE I 3 Credit Hours**

Study of Western European choral literature from approximately 1450 to the early nineteenth century, i.e., Renaissance, Baroque and Classical periods.

**Prerequisite:** MUS 31121 with a minimum C grade; and special approval of instructor.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MUS 42272 CHORAL LITERATURE II 3 Credit Hours**

(Slashed with MUS 52272) Continuation of Choral Literature I. A study of Western European and North American choral music of the early 19th century to the present (roughly 1830 to the present).

**Prerequisite:** MUS 31121 with a minimum C grade; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MUS 42357 STUDENT TEACHING (ELR) 9 Credit Hours**

Provides a 16-week student teaching experience. Off-campus arrangements are handled by the College of Education, Health and Human Services and the School of Music.

**Prerequisite:** Music education major; official valid certification of child safety training, approved basic life support and ALICE training must be presented to the campus office of clinical experience or designated faculty/staff at regional campuses as prerequisite for student teaching; and special approval.

**Corequisite:** MUS 49525.

**Schedule Type:** Practical Experience

**Contact Hours:** 9 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**Attributes:** Experiential Learning Requirement

**MUS 43211 INSTRUMENTAL METHODS II 4 Credit Hours**

Secondary instrumental instruction; program organization, budget, advocacy, assessment, rehearsal planning, literature and teaching techniques. Clinical experience in the teaching of music. Forty (40) field hours required.

**Prerequisite:** Admission to advanced study; and minimum C grade in MUS 23241 and 34111 and 43231; and junior standing.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 3 lecture, 2 lab

**Grade Mode:** Standard Letter

**MUS 43231 INSTRUMENTAL METHODS I 4 Credit Hours**

Elementary and middle school instrumental instruction, program organization, rehearsal teaching techniques, lesson plans, literature, assessment, scheduling, recruiting, modeling and interactive teaching. Clinical experience in the teaching of music. Forty (40) field hours required.

**Prerequisite:** Admission to advanced study; and MUS 23241 with a minimum C grade; and music or music education major; and junior standing.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 3 lecture, 2 lab

**Grade Mode:** Standard Letter

**MUS 43241 MARCHING BAND TECHNIQUES AND LITERATURE 1 Credit Hour**

Organization, administration and techniques of marching bands in the schools. Topics covered include musical styles, literature and show design.

**Prerequisite:** Music education major; and sophomore standing.

**Schedule Type:** Combined Lecture and Lab, Combined Lec/Lab-Open Learning

**Contact Hours:** 1 lab

**Grade Mode:** Standard Letter

**MUS 43242 JAZZ ENSEMBLE TECHNIQUES AND LITERATURE 2 Credit Hours**

Study of the curriculum for the jazz ensemble, including organizational and administrative procedures. Emphasis on music interpretation jazz styles and rehearsal techniques taught through laboratory experience.

**Prerequisite:** Special approval.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**MUS 43243 CONTEMPORARY CHORAL METHODS IN THE SCHOOLS 3 Credit Hours**

(Slashed with MUS 53243) Basic techniques and materials for teaching vocal jazz and musical theatre in the schools. Administration, organization and publicity for productions as well as literature for these performing groups will be explored.

**Prerequisite:** Music education major or music major; and junior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MUS 43245 JAZZ ENSEMBLE TECHNIQUES AND LITERATURE 1 Credit Hour**

(Slashed with MUS 53245) Study of the curriculum for the jazz ensemble, including organizational and administrative procedures. Emphasis on music interpretation of jazz styles and rehearsal techniques taught through laboratory experiences. One hour of field observation is required.

**Prerequisite:** Special approval.

**Schedule Type:** Laboratory

**Contact Hours:** 3 lab

**Grade Mode:** Standard Letter

**MUS 43264 METHODS IN ROCK BAND PERFORMANCE AND PEDAGOGY 3 Credit Hours**

(Slashed with MUS 53264) In this course, students will participate in small rock ensembles and will examine the pedagogy of that type of ensemble. Lectures and demonstrations will include topics such as equipment selection, repertoire selection, and performance techniques. An additional emphasis of this course will be techniques for amplifying rock ensembles. Students will also learn fundamental techniques for recording rock ensembles.

**Prerequisite:** Special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MUS 43265 METHODS IN JAZZ PERFORMANCE AND PEDAGOGY 3 Credit Hours**

(Slashed with MUS 53265) In this course, students will participate in immersive experiences in various aspects of vocal and instrumental jazz: solo performing, ensemble rehearsal techniques, repertoire selection and sources, jazz theory, improvisation, working with a rhythm section, and sound reinforcement. Students will also participate in a workshop ensemble to experience the art form as a member of a jazz ensemble.

**Prerequisite:** Special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MUS 44111 ADVANCED CHORAL CONDUCTING 3 Credit Hours**

Continued development of conducting technique, score reading analysis, styles, interpretation, rehearsal procedure, diction issues as they relate to conducting and pedagogy, and arranging voice -part adaptation for choral ensembles. Six field or clinical hours are required.

**Prerequisite:** Minimum C grade in MUS 21111, MUS 34111 and MUS 37113.

**Schedule Type:** Laboratory, Lecture, Combined Lecture and Lab

**Contact Hours:** 2 lecture, 2 lab

**Grade Mode:** Standard Letter

**MUS 44121 ADVANCED INSTRUMENTAL CONDUCTING 3 Credit Hours**

Continued development of conducting technique, score reading analysis, styles, interpretation, rehearsal procedure and arranging for instrumental organizations. Six field or clinical hours are required.

**Prerequisite:** MUS 21111 and MUS 34111 with a minimum C grade.

**Schedule Type:** Laboratory, Lecture, Combined Lecture and Lab

**Contact Hours:** 2 lecture, 2 lab

**Grade Mode:** Standard Letter

**MUS 44211 INSTRUMENTAL METHODS I 2 Credit Hours**

Elementary and middle school instrumental instruction, program organization, rehearsal teaching techniques, lesson plans, literature, assessment, scheduling, recruiting, modeling and interactive teaching. Clinical experience in the teaching of music. Thirty (30) field hours required.

**Prerequisite:** Admission to advanced study; and MUS 23241 with a minimum C grade; and minimum C grade and 2 credits in MUS 47412, MUS 47512, MUS 47513, MUS 47612 or MUS 47712; and music or music education major; and completion of the music education professional evaluation; and junior standing.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 1 lecture, 3 lab

**Grade Mode:** Standard Letter



**MUS 44212 INSTRUMENTAL METHODS II 2 Credit Hours**

Secondary instrumental instruction; program organization, budget, advocacy, assessment, rehearsal planning, literature and teaching techniques. Clinical experience in the teaching of music. Thirty (30) field hours required.

**Prerequisite:** Admission to advanced study; and minimum C grade in MUS 23241, MUS 34111 and MUS 44211; and minimum C grade in either MUS 47412, MUS 47512, MUS 47512, MUS 47612 or MUS 47712; and completion of the music education professional evaluation; and junior standing.

**Schedule Type:** Laboratory, Lecture, Combined Lecture and Lab

**Contact Hours:** 1 lecture, 3 lab

**Grade Mode:** Standard Letter

**MUS 45111 UNIVERSITY CHOIR 1 Credit Hour**

(Repeatable for credit) Study and performance of choral music from Renaissance through contemporary styles, large and small forms with appropriate accompaniment.

**Prerequisite:** Special approval.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**Attributes:** TAG Arts and Humanities

**MUS 45121 KENT CHORUS 1 Credit Hour**

(Repeatable for credit) Study and performance of choral music from Renaissance through contemporary styles, large and small forms with appropriate accompaniment.

**Prerequisite:** Special approval.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 2.5 other

**Grade Mode:** Standard Letter

**Attributes:** TAG Arts and Humanities

**MUS 45131 OPERA: SINGER-ACTOR TECHNIQUES 1 Credit Hour**

(Repeatable for credit) Training in methods and skills necessary to the art of the singer-actor. Opera performed and prepared via study observation and rehearsal.

**Prerequisite:** Audition.

**Schedule Type:** Studio

**Contact Hours:** 9.5 other

**Grade Mode:** Standard Letter

**MUS 45141 KENT STATE UNIVERSITY CHORALE 1 Credit Hour**

(Repeatable for credit) Study and performance of literature for vocal chamber ensemble from medieval through contemporary styles with appropriate accompaniment sung in the original language. An audition is required before registering for this course.

**Prerequisite:** Special approval.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 4.5 other

**Grade Mode:** Standard Letter

**Attributes:** TAG Arts and Humanities

**MUS 45142 CORO CANTARE 1 Credit Hour**

(Repeatable for credit) (Slashed with MUS 55142) A chorus of tenor, baritone and bass voices. Open to all students regardless of gender identity. Emphasis on music literacy, vocal production instruction, study and performance of music written for tenor, baritone and bass voices. The group performs choral literature spanning many centuries and reflecting diverse cultures. Experience with mixed-voice choirs also occurs. Audition required.

**Prerequisite:** None.

**Schedule Type:** Laboratory

**Contact Hours:** 3 lab

**Grade Mode:** Standard Letter

**Attributes:** TAG Arts and Humanities

**MUS 45143 CANTIQUÉ 1 Credit Hour**

(Repeatable for credit) (Slashed with MUS 55143) A chorus of soprano and alto voices. Open to all students regardless of gender identity. Emphasis on music literacy, vocal production instruction, study and performance of music written for soprano and alto voices. The group performs choral literature spanning many centuries and reflecting diverse cultures. Experience with mixed-voice choirs also occurs. Audition required.

**Prerequisite:** None.

**Schedule Type:** Laboratory

**Contact Hours:** 3 lab

**Grade Mode:** Standard Letter

**Attributes:** TAG Arts and Humanities

**MUS 45151 KENT STATE UNIVERSITY GOSPEL CHOIR 1 Credit Hour**

(Repeatable for credit) Study and performance of choral music in the gospel tradition, including works by contemporary artists. One weekly rehearsal and a minimum of one concert per semester. Off-campus concerts are possible.

**Prerequisite:** None.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 2 other

**Grade Mode:** Standard Letter

**Attributes:** TAG Arts and Humanities

**MUS 45212 ORCHESTRA 1 Credit Hour**

(Slashed with MUS 55212 and MUS 75212) (Repeatable for credit) A select group of instrumentalists assembled for the purpose of studying and performing orchestral music. Open to all KSU students, regardless of major. An audition is required.

**Prerequisite:** None.

**Schedule Type:** Laboratory, Lecture, Combined Lecture and Lab

**Contact Hours:** 6 other

**Grade Mode:** Standard Letter

**Attributes:** TAG Arts and Humanities

**MUS 45221 SYMPHONY BAND 1 Credit Hour**

(Repeatable for credit) Study and performance of music literature for wind band.

**Prerequisite:** Audition.

**Schedule Type:** Studio

**Contact Hours:** 4 other

**Grade Mode:** Standard Letter

**Attributes:** TAG Arts and Humanities

**MUS 45222 MARCHING BAND 1 Credit Hour**

(Repeatable for credit) Study and performance of literature and maneuvers for marching band.

**Prerequisite:** Audition.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 6 other

**Grade Mode:** Standard Letter

**Attributes:** TAG Arts and Humanities

**MUS 45223 WIND ENSEMBLE 1 Credit Hour**

(Slashed with MUS 55223 and MUS 75223) (Repeatable for credit) A select concert ensemble that performs the finest in wind instrument literature with emphasis on major original works. Open to all KSU students, regardless of major. An audition is required.

**Prerequisite:** None.

**Schedule Type:** Laboratory, Lecture, Combined Lecture and Lab

**Contact Hours:** 4 other

**Grade Mode:** Standard Letter

**Attributes:** TAG Arts and Humanities

**MUS 45224 FLASHER BRASS 1 Credit Hour**

(Repeatable for credit) Study and performance of music for Flasher Brass.

**Prerequisite:** Audition.

**Schedule Type:** Studio

**Contact Hours:** 4 other

**Grade Mode:** Standard Letter

**MUS 45225 UNIVERSITY BAND 1 Credit Hour**

(Repeatable for credit) Study and performance of music literature for wind band appropriate for non-music majors, and for music education majors performing on secondary instruments.

**Prerequisite:** None.

**Schedule Type:** Laboratory

**Contact Hours:** 1 lab

**Grade Mode:** Standard Letter

**Attributes:** TAG Arts and Humanities

**MUS 45231 JAZZ ENSEMBLE 1 Credit Hour**

(Repeatable for credit) Study and performance of music literature in the jazz idiom.

**Prerequisite:** Audition.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 7.5 other

**Grade Mode:** Standard Letter

**MUS 45241 TROMBONE ENSEMBLE 1 Credit Hour**

(Repeatable for credit) A thorough study of trombone performance in various sized ensembles. Emphasis on original literature from over four centuries.

**Prerequisite:** Audition.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 2 other

**Grade Mode:** Standard Letter

**MUS 45251 PERCUSSION ENSEMBLE 1 Credit Hour**

(Repeatable for credit) A comprehensive study of percussion performance in various-sized ensembles. Use of keyboard percussion instruments along with drums and accessories. Study of percussion ensemble literature.

**Prerequisite:** Audition.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 5 other

**Grade Mode:** Standard Letter

**MUS 45261 BASSOON ENSEMBLE 1 Credit Hour**

(Repeatable for credit) Study and performance of music for multiple bassoons; emphasis upon refined ensemble playing interpretation leadership skills and arranging techniques.

**Prerequisite:** Permission audition.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 2 other

**Grade Mode:** Standard Letter

**MUS 45271 NEW MUSIC ENSEMBLE 1 Credit Hour**

(Repeatable for credit) Study and performance of 20th- and 21st-century chamber music with an emphasis on works by contemporary composers.

**Prerequisite:** Permission.

**Schedule Type:** Studio

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**MUS 45281 FLUTE ENSEMBLE 1 Credit Hour**

(Repeatable for credit) Study and performance of music for multiple flutes; emphasis upon all aspects of ensemble playing and style considerations will be addressed in both chamber and conducted formats.

**Prerequisite:** Permission audition.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 2 other

**Grade Mode:** Standard Letter

**MUS 45311 CHAMBER MUSIC 1,2 Credit Hour**

(Repeatable for credit) The study and performance of music for small ensembles. Music minors and other non-music majors may take this course with permission.

**Prerequisite:** Music major or music education major.

**Schedule Type:** Studio

**Contact Hours:** 2-4 other

**Grade Mode:** Standard Letter

**MUS 45312 JAZZ COMBO DEVELOPMENT 1 Credit Hour**

(Repeatable for a total of 8 credit hours) The study of Jazz combo performance through rehearsal.

**Prerequisite:** Special approval.

**Schedule Type:** Laboratory

**Contact Hours:** 1 lab

**Grade Mode:** Standard Letter

**MUS 45313 NOVA JAZZ SINGERS 1 Credit Hour**

(Repeatable for credit) The Kent State Nova Jazz Singers is a select vocal jazz ensemble. Repertoire consists of arrangements of American popular music from the 1930s to today, covering all contemporary styles. Nova Jazz Singers is open to all Kent State students by audition.

**Prerequisite:** Special approval.

**Schedule Type:** Studio

**Contact Hours:** 2 other

**Grade Mode:** Standard Letter

**MUS 45321 ACCOMPANYING 1,2 Credit Hour**

(Repeatable for credit) Accompanying instrumental and vocal soloists; piano ensemble works. Credit counted toward ensemble requirements. One hour credit for two hours of assigned accompanying weekly.

**Prerequisite:** Permission.

**Schedule Type:** Private Lesson, Studio

**Contact Hours:** 1-2 other

**Grade Mode:** Standard Letter

**MUS 46111 APPLIED MUSIC-PIANO 2,4 Credit Hours**

(Repeatable for credit) A comprehensive study of performance, technique and repertoire appropriate to music majors and minors. Individual study. Students must audition to be accepted into this course.

**Prerequisite:** Music or music education major.

**Schedule Type:** Private Lesson, Studio

**Contact Hours:** 1.5-2 other

**Grade Mode:** Standard Letter

**MUS 46311 APPLIED MUSIC-VOICE 2,4 Credit Hours**

(Repeatable for credit) A comprehensive study of performance, technique and repertoire appropriate to music majors and minors. Individual study. Students must audition to be accepted into this course.

**Prerequisite:** Music or music education major.

**Schedule Type:** Private Lesson, Studio

**Contact Hours:** 1 other

**Grade Mode:** Standard Letter

**MUS 46411 APPLIED MUSIC-VIOLIN 2,4 Credit Hours**

(Repeatable for credit) A comprehensive study of performance, technique and repertoire appropriate to music majors and minors. Individual study. Students must audition to be accepted into this course.

**Prerequisite:** Music or music education major.

**Schedule Type:** Private Lesson, Studio

**Contact Hours:** 1 other

**Grade Mode:** Standard Letter

**MUS 46412 APPLIED MUSIC-VIOLA 2,4 Credit Hours**

(Repeatable for credit) A comprehensive study of performance, technique and repertoire appropriate to music majors and minors. Individual study. Students must audition to be accepted into this course.

**Prerequisite:** Music or music education major.

**Schedule Type:** Private Lesson, Studio

**Contact Hours:** 1 other

**Grade Mode:** Standard Letter

**MUS 46413 APPLIED MUSIC-CELLO 2,4 Credit Hours**

(Repeatable for credit) A comprehensive study of performance, technique and repertoire appropriate to music majors and minors. Individual study. Students must audition to be accepted into this course.

**Prerequisite:** Music or music education major.

**Schedule Type:** Private Lesson, Studio

**Contact Hours:** 1 other

**Grade Mode:** Standard Letter

**MUS 46414 APPLIED MUSIC-DOUBLE BASS 2,4 Credit Hours**

(Repeatable for credit) A comprehensive study of performance, technique and repertoire appropriate to music majors and minors. Individual study. Students must audition to be accepted into this course.

**Prerequisite:** Music or music education major.

**Schedule Type:** Private Lesson, Studio

**Contact Hours:** 1 other

**Grade Mode:** Standard Letter

**MUS 46511 APPLIED MUSIC-FLUTE 2,4 Credit Hours**

(Repeatable for credit) A comprehensive study of performance, technique and repertoire appropriate to music majors and minors. Individual study. Students must audition to be accepted into this course.

**Prerequisite:** Music or music education major; and special approval.

**Schedule Type:** Private Lesson, Studio

**Contact Hours:** 1 other

**Grade Mode:** Standard Letter

**MUS 46512 APPLIED MUSIC-OBOE 2,4 Credit Hours**

(Repeatable for credit) A comprehensive study of performance, technique and repertoire appropriate to music majors and minors. Individual study. Students must audition to be accepted into this course.

**Prerequisite:** Music or music education major; and special approval.

**Schedule Type:** Private Lesson, Studio

**Contact Hours:** 1 other

**Grade Mode:** Standard Letter

**MUS 46513 APPLIED MUSIC-CLARINET 2,4 Credit Hours**

(Repeatable for credit) A comprehensive study of performance, technique and repertoire appropriate to music majors and minors. Individual study. Students must audition to be accepted into this course.

**Prerequisite:** Music or music education major; and special approval.

**Schedule Type:** Private Lesson, Studio

**Contact Hours:** 1 other

**Grade Mode:** Standard Letter

**MUS 46514 APPLIED MUSIC-BASSOON 2,4 Credit Hours**

(Repeatable for credit) A comprehensive study of performance, technique and repertoire appropriate to music majors and minors. Individual study. Students must audition to be accepted into this course.

**Prerequisite:** Music or music education major; and special approval.

**Schedule Type:** Private Lesson, Studio

**Contact Hours:** 1 other

**Grade Mode:** Standard Letter

**MUS 46515 APPLIED MUSIC-SAXOPHONE 2,4 Credit Hours**

(Repeatable for credit) A comprehensive study of performance, technique and repertoire appropriate to music majors and minors. Individual study. Students must audition to be accepted into this course.

**Prerequisite:** Music or music education major; and special approval.

**Schedule Type:** Private Lesson, Studio

**Contact Hours:** 1 other

**Grade Mode:** Standard Letter

**MUS 46611 APPLIED MUSIC-TRUMPET 2,4 Credit Hours**

(Repeatable for credit) A comprehensive study of performance, technique and repertoire appropriate to music majors and minors. Individual study. Students must audition to be accepted into this course.

**Prerequisite:** Music or music education major.

**Schedule Type:** Private Lesson, Studio

**Contact Hours:** 1 other

**Grade Mode:** Standard Letter

**MUS 46612 APPLIED MUSIC-HORN 2,4 Credit Hours**

(Repeatable for credit) A comprehensive study of performance, technique and repertoire appropriate to music majors and minors. Individual study. Students must audition to be accepted into this course.

**Prerequisite:** Music or music education major.

**Schedule Type:** Private Lesson, Studio

**Contact Hours:** 1 other

**Grade Mode:** Standard Letter

**MUS 46613 APPLIED MUSIC-TROMBONE 2,4 Credit Hours**

(Repeatable for credit) A comprehensive study of performance, technique and repertoire appropriate to music majors and minors. Individual study. Students must audition to be accepted into this course.

**Prerequisite:** Music or music education major.

**Schedule Type:** Private Lesson, Studio

**Contact Hours:** 1 other

**Grade Mode:** Standard Letter

**MUS 46614 APPLIED MUSIC-EUPHONIUM 2,4 Credit Hours**

(Repeatable for credit) A comprehensive study of performance, technique and repertoire appropriate to music majors and minors. Individual study. Students must audition to be accepted into this course.

**Prerequisite:** Music or music education major.

**Schedule Type:** Private Lesson, Studio

**Contact Hours:** 1 other

**Grade Mode:** Standard Letter

**MUS 46615 APPLIED MUSIC-TUBA 2,4 Credit Hours**

(Repeatable for credit) A comprehensive study of performance, technique and repertoire appropriate to music majors and minors. Individual study. Students must audition to be accepted into this course.

**Prerequisite:** Music or music education major.

**Schedule Type:** Private Lesson, Studio

**Contact Hours:** 1 other

**Grade Mode:** Standard Letter

**MUS 46711 APPLIED MUSIC-PERCUSSION 2,4 Credit Hours**

(Repeatable for credit) A comprehensive study of performance, technique and repertoire appropriate to music majors and minors. Individual study. Students must audition to be accepted into this course.

**Prerequisite:** Music or music education major.

**Schedule Type:** Private Lesson, Studio

**Contact Hours:** 1 other

**Grade Mode:** Standard Letter

**MUS 46912 APPLIED MUSIC-GUITAR 2,4 Credit Hours**

(Repeatable for credit) A comprehensive study of performance, technique and repertoire appropriate to music majors and minors. Individual study. Students must audition to be accepted into this course.

**Prerequisite:** Music or music education major.

**Schedule Type:** Private Lesson, Studio

**Contact Hours:** 1 other

**Grade Mode:** Standard Letter

**MUS 47012 CLASS GUITAR I 2 Credit Hours**

Development of basic guitar performance skills.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**MUS 47013 CLASS GUITAR II 2 Credit Hours**

Continued development of acoustic guitar performance skills, study of performance related theory and related topics.

**Prerequisite:** MUS 47012.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**MUS 47311 VOICE CLASS FOR THE INSTRUMENTALIST 1 Credit Hour**

Class instruction in the fundamentals of correct breathing, tone production and diction.

**Prerequisite:** Music or music education major.

**Schedule Type:** Studio

**Contact Hours:** 2 other

**Grade Mode:** Standard Letter

**MUS 47312 VOICE CLASS FOR NON-MUSIC STUDENTS 1 Credit Hour**

Class instruction in the fundamentals of correct breathing, tone production and diction.

**Prerequisite:** None.

**Schedule Type:** Studio

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**MUS 47412 STRING CLASS 1 Credit Hour**

A discussion and practice of basic principles of classroom string playing, instrumental pedagogy, and group process as applied to public school music settings. This course is devoted to string teaching and learning in pre-service music education training.

**Prerequisite:** Music or music education major.

**Schedule Type:** Laboratory

**Contact Hours:** 3 lab

**Grade Mode:** Standard Letter

**MUS 47512 WIND TECHNIQUES - FRENCH HORN AND DOUBLE REEDS 1 Credit Hour**

The study of the fundamental principles of playing and teaching French horn, oboe, and bassoon. Content includes performance skill development, and a survey of materials and method books suitable for class and private instruction. The overall objective is to develop an elementary skill level of performance on the instruments and the pedagogical knowledge necessary to teach the instruments in elementary through secondary levels.

**Prerequisite:** Music or music education major.

**Schedule Type:** Laboratory

**Contact Hours:** 3 lab

**Grade Mode:** Standard Letter

**MUS 47513 WIND TECHNIQUES - FLUTE, CLARINET, SAXOPHONE 1 Credit Hour**

The study of the fundamental principles of playing and teaching flute, clarinet, and saxophone. Content includes performance skill development, and a survey of materials and method books suitable for class and private instruction. The overall objective is to develop an elementary skill level of performance on the instruments and the pedagogical knowledge necessary to teach the instruments in elementary through secondary levels.

**Prerequisite:** Music or music education.

**Schedule Type:** Laboratory

**Contact Hours:** 3 lab

**Grade Mode:** Standard Letter

**MUS 47612 WIND TECHNIQUES - TRUMPET AND LOW BRASS 1 Credit Hour**

The study of the fundamental principles of playing trumpet, trombone, tuba, and euphonium. Content includes performance skill development, and a survey of materials and method books suitable for class and private instruction. The overall objective is to develop an elementary skill level of performance on the instruments and the pedagogical knowledge necessary to teach the instruments in elementary through secondary school levels.

**Prerequisite:** Music or music education major.

**Schedule Type:** Laboratory

**Contact Hours:** 3 lab

**Grade Mode:** Standard Letter

**MUS 47712 PERCUSSION CLASS 1 Credit Hour**

Study of various percussion instruments (mallets, snare drum, timpani and auxiliary) and techniques of performance. Designed for music educator with no previous percussion experience.

**Prerequisite:** Music or music education major.

**Schedule Type:** Laboratory

**Contact Hours:** 3 lab

**Grade Mode:** Standard Letter

**MUS 47811 INSTRUMENT CLASS FOR THE CHORAL/GENERAL MUSIC EDUCATOR 1 Credit Hour**

Class instruction in the basic playing skills of band and orchestral instruments intended to provide familiarity with the common school instruments for the choral-general music major. Ten (10) hours of field experience required.

**Prerequisite:** Music or music education major.

**Schedule Type:** Laboratory

**Contact Hours:** 2 lab

**Grade Mode:** Standard Letter

**MUS 48221 ELEMENTS OF ACCOMPANYING I 2 Credit Hours**

Techniques of accompanying; selected overview of art song literature including Italian, German, French and English songs development of playing at sight skills.

**Prerequisite:** Special approval.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**MUS 48222 ELEMENTS OF ACCOMPANYING II 2 Credit Hours**

Continuation of accompanying techniques including opera accompanying, orchestral reductions and selected overview of literature for solo instrument and piano; continuation of playing-at-sight skills.

**Prerequisite:** MUS 48221 with a minimum C grade.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**MUS 48231 INSTRUMENTAL PEDAGOGY FOR THE CHORAL GENERAL MUSIC EDUCATOR 2 Credit Hours**

Knowledge and techniques for building and maintaining an instrumental music program within the K-12 school setting for the choral general music education major. Ten (10) hours of field experience required.

**Prerequisite:** MUS 47811 with a minimum C grade; and music education major.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**MUS 48232 GENERAL MUSIC PEDAGOGY FOR THE INSTRUMENTALIST 1 Credit Hour**

General music pedagogy techniques for the instrumental music education major. Clinical experiences in the teaching of general music. Ten (10) field hours required.

**Prerequisite:** MUS 37114 with a minimum C grade; and music education major.

**Schedule Type:** Laboratory

**Contact Hours:** 2 lab

**Grade Mode:** Standard Letter

**MUS 48233 CHORAL MUSIC PEDAGOGY FOR THE INSTRUMENTALIST 1 Credit Hour**

Choral pedagogy techniques and choral program development for the instrumental music education major. Clinical experiences in the teaching of choral music. Ten (10) field hours required.

**Prerequisite:** MUS 47311 with a minimum C grade; and music education major.

**Schedule Type:** Laboratory

**Contact Hours:** 2 lab

**Grade Mode:** Standard Letter

**MUS 48241 VOICE PEDAGOGY 2 Credit Hours**

Survey of techniques, practices and materials of teaching voice.

**Prerequisite:** Permission.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**MUS 48251 PEDAGOGY OF MUSIC THEORY 2 Credit Hours**

The principles and techniques of teaching music theory.

**Prerequisite:** MUS 21112 with a minimum C grade; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**MUS 48257 PEDAGOGY-INSTRUMENTAL 2 Credit Hours**

Principles and techniques of instruction. Literature survey. Analysis of instrumental problems and performance practice. Offered as needed for strings woodwinds brass percussion organ, or guitar.

**Prerequisite:** Permission.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**MUS 48311 PIANO PEDAGOGY I 2 Credit Hours**

Individual and group piano teaching including teaching methods and the history of piano pedagogy.

**Prerequisite:** Music or music education major; and junior standing.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**MUS 48312 PIANO PEDAGOGY II 2 Credit Hours**

Individual and group piano teaching. Building an independent studio and career networking.

**Prerequisite:** MUS 48311 with a minimum C grade; and music major.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**MUS 48393 VARIABLE TITLE WORKSHOP IN MUSIC 1-4 Credit Hours**

(Repeatable for credit) Offered for specific professional needs. Emphasis on performance and pedagogical skills.

**Prerequisite:** Permission.

**Schedule Type:** Workshop

**Contact Hours:** 1-4 other

**Grade Mode:** Satisfactory/Unsatisfactory

**MUS 48512 IMPROVISATION 1 Credit Hour**

The development of musical improvisation skills not tied to any particular music style. Students will perform on their own applied instrument(s).

**Prerequisite:** MUS 21111 with a minimum C grade.

**Schedule Type:** Laboratory

**Contact Hours:** 2 lab

**Grade Mode:** Standard Letter



**MUS 48598 MUSIC RESEARCH (ELR) 2,3 Credit Hours**

(Repeated registration permitted) Research or individual investigation for undergraduate students.

**Prerequisite:** Permission.

**Schedule Type:** Research

**Contact Hours:** 2-3 other

**Grade Mode:** Standard Letter-IP

**Attributes:** Experiential Learning Requirement

**MUS 49525 SEMINAR FOR STUDENT TEACHING (ELR) 3 Credit Hours**

(Slashed with MUS 59525) A capstone discussion of principles of music teaching and pragmatic understanding of school music settings. Seminar serves as the companion course to Student Teaching for the purpose of self-observation, reflection, and analysis. Development of edTPA and portfolio.

**Prerequisite:** Music education major; and senior standing; and special approval.

**Corequisite:** MUS 42357.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Experiential Learning Requirement

**MUS 50295 SPECIAL TOPICS IN MUSIC 1-3 Credit Hours**

(Repeatable for credit) Academic study in areas not offered adequately in the music curriculum. Topic areas are of special interest to the faculty member.

**Prerequisite:** Music major; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 1-3 lecture

**Grade Mode:** Standard Letter

**MUS 50296 INDEPENDENT STUDY:MUSIC 1-3 Credit Hours**

(Repeatable for credit) Individual investigation in music topics not offered as either regular coursework or beyond the scope of existing music major courses.

**Prerequisite:** Music major; and graduate standing; and special approval.

**Schedule Type:** Individual Investigation

**Contact Hours:** 1-3 other

**Grade Mode:** Satisfactory/Unsatisfactory

**MUS 51131 KEYBOARD HARMONY 3 Credit Hours**

Theoretical skills demonstrated at the keyboard. Harmonization of melodies in homophonic style, realization of figured bass, score reading, modulation and improvisation.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MUS 51141 16TH-CENTURY COUNTERPOINT 3 Credit Hours**

Two-, three- and four-part vocal counterpoint in 16th century style.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MUS 51151 18TH-CENTURY COUNTERPOINT 3 Credit Hours**

Technique of writing counterpoint in 18th-century style especially that of J. S. Bach.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MUS 51211 COMPOSITION 2 Credit Hours**

(Repeatable for credit) Study of the materials and techniques of composition culminating in original compositions based upon observable principles of unity and variety.

**Prerequisite:** Graduate standing.

**Schedule Type:** Private Lesson, Studio

**Contact Hours:** 2 other

**Grade Mode:** Standard Letter

**MUS 51321 ORCHESTRATION 3 Credit Hours**

Ranges, tonal possibilities, technical limitations and transpositions for all orchestral instruments. Scoring techniques and analysis of representative instrumental ensemble repertoire.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MUS 51341 JAZZ IMPROVISATION 1 Credit Hour**

The development of the art of jazz improvisation through performance and analysis.

**Prerequisite:** Graduate standing.

**Schedule Type:** Laboratory

**Contact Hours:** 2 lab

**Grade Mode:** Standard Letter

**MUS 51342 JAZZ ARRANGING 2 Credit Hours**

Arranging for the large and small jazz ensemble.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MUS 52111 AFRICAN MUSIC AND CULTURES 3 Credit Hours**

African music as related to social sciences and humanities. Oral traditions. Use of music recordings, tapes, musical instruments. Participation in performance and group work involvement.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MUS 52131 AMERICA'S MUSIC 3 Credit Hours**

Historical survey of music in America from New England psalmody to present-day compositional trends.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MUS 52141 FOLK MUSIC OF EUROPE AND NORTH AMERICA 3 Credit Hours**

(Slashed with MUS 42141) Study of selected music cultures of Eastern and Western Europe, and South, Central and North America.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MUS 52151 ASIAN MUSICS 3 Credit Hours**

Survey of Asian musics. Emphasis on art, folk and popular musics and relationships of these musics to their respective cultures.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MUS 52161 HISTORY OF JAZZ 3 Credit Hours**

The evolution of jazz from its origins to the present.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MUS 52171 MUSIC FROM WORLD CULTURES 3 Credit Hours**

Study of selected art, folk and popular music from world cultures with emphasis on listening skills, cultural context, function, organology and technical matters of style.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MUS 52181 POPULAR WORLD MUSIC 3 Credit Hours**

A survey of popular world music genres from North America, the Caribbean, South America, Europe, Africa, and Asia. Emphasis is on recognizing music literature, prominent artists and music styles, as well as related cultural events. Graduate level introduces cultural theory related to popular studies. Modern media, especially the Internet, is an integral component of the course.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MUS 52221 SYMPHONIC LITERATURE 3 Credit Hours**

Historical and stylistic survey of music for large instrumental ensemble.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MUS 52241 PIANO LITERATURE I 2 Credit Hours**

Survey of keyboard and piano suites, sonatas and concerti from the 16th century to the present. Emphasis on performing, listening and analysis.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**MUS 52242 PIANO LITERATURE II 2 Credit Hours**

Survey of character pieces and variations from the 16th century to the present. Emphasis on performing, listening and analysis.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**MUS 52251 SONG LITERATURE 3 Credit Hours**

A study of vocal literature from the 16th century to the present. Emphasis upon the style, interpretation and presentation of solo materials for all voice classifications.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MUS 52261 OPERA LITERATURE 3 Credit Hours**

The historical development of opera from the 17th century to the present.

Detailed analysis of representative works.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MUS 52271 CHORAL LITERATURE I 3 Credit Hours**

(Slashed with MUS 42271) Study of Western European choral literature from approximately 1450 to early 19th century (Renaissance, Baroque and Classical periods).

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MUS 52272 CHORAL LITERATURE II 3 Credit Hours**

(Slashed with MUS 42272) Continuation of Choral Literature I. A study of Western European and North American choral music of the early 19th century to the present (roughly 1830 to present).

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MUS 52357 STUDENT TEACHING 9 Credit Hours**

Provides a 16-week student teaching experience. Off-campus arrangements are handled by the College of Education, Health and Human Services and the School of Music and Official valid certification of Child Safety Training, approved Basic Life Support and ALICE. Training must be presented to the campus office of clinical experience as prerequisite for student teaching.

**Prerequisite:** Graduate standing; and special approval.

**Corequisite:** MUS 59525.

**Schedule Type:** Practical Experience

**Contact Hours:** 35 other

**Grade Mode:** Standard Letter

**MUS 53241 MARCHING BAND TECHNIQUES AND LITERATURE 1 Credit Hour**

Organization, administration and techniques of marching bands in the schools. Topics covered include musical styles, literature and show design.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 1 lecture, 1 lab

**Grade Mode:** Standard Letter

**MUS 53242 JAZZ ENSEMBLE TECHNIQUES 2 Credit Hours**

Study of the curriculum for the jazz ensemble, including organizational and administrative procedures. Emphasis on music interpretation, jazz styles and rehearsal techniques taught through laboratory experience.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**MUS 53243 CONTEMPORARY CHORAL METHODS IN THE SCHOOLS 3 Credit Hours**

(Slashed with MUS 43243) Basic techniques and materials for teaching vocal jazz and musical theatre in the schools. Administration, organization and publicity for productions as well as literature for these performing groups will be explored.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MUS 53245 JAZZ ENSEMBLE TECHNIQUES AND LITERATURE 1 Credit Hour**

(Slashed with MUS 43245) Study of the curriculum for the jazz ensemble, including organizational and administrative procedures. Emphasis on music interpretation, jazz styles, and rehearsal techniques taught through laboratory experience. One hour of field observation is required.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Laboratory

**Contact Hours:** 3 lab

**Grade Mode:** Standard Letter

**MUS 53264 METHODS IN ROCK BAND PERFORMANCE AND PEDAGOGY 3 Credit Hours**

(Slashed with MUS 43264) In this course, students will participate in small rock ensembles and will examine the pedagogy of that type of ensemble. Lectures and demonstrations will include topics such as equipment selection, repertoire selection, and performance techniques. An additional emphasis of this course will be techniques for amplifying rock ensembles. Students will also learn fundamental techniques for recording rock ensembles.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MUS 53265 METHODS IN JAZZ PERFORMANCE AND PEDAGOGY 3 Credit Hours**

(Slashed with MUS 43265) In this course, students will participate in immersive experiences in various aspects of vocal and instrumental jazz: solo performing, ensemble rehearsal techniques, repertoire selection and sources, jazz theory, improvisation, working with a rhythm section, and sound reinforcement. Students will also participate in a workshop ensemble to experience the art form as a member of a jazz ensemble.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MUS 55121 KENT CHORUS 1 Credit Hour**

(Repeatable for credit) Study and performance of choral music from Renaissance through contemporary styles, large and small forms with appropriate accompaniment.

**Prerequisite:** Graduate standing.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 2.5 other

**Grade Mode:** Standard Letter

**MUS 55131 OPERA:SINGER-ACTOR TECHNIQUES 1 Credit Hour**

(Repeatable for credit) A course designed to give the young singing actor practical operatic experience in the performance of portions of or complete operas.

**Prerequisite:** Graduate standing.

**Schedule Type:** Studio

**Contact Hours:** 9.5 other

**Grade Mode:** Standard Letter

**MUS 55141 KENT STATE UNIVERSITY CHORALE 1 Credit Hour**

(Repeatable for credit) Study and performance of literature for vocal chamber ensemble from medieval through contemporary styles sung in the original language with appropriate accompaniment. An audition is required before registering for this course.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 4.5 other

**Grade Mode:** Standard Letter

**MUS 55142 CORO CANTARE 1 Credit Hour**

(Repeatable for credit) (Slashed with MUS 54142) A chorus of tenor, baritone and bass voices. Open to all students regardless of gender identity. Emphasis on music literacy, vocal production instruction, study and performance of music written for tenor, baritone and bass voices. The group performs choral literature spanning many centuries and reflecting diverse cultures. Experience with mixed-voice choirs also occurs. Audition required.

**Prerequisite:** Graduate standing.

**Schedule Type:** Laboratory

**Contact Hours:** 3 lab

**Grade Mode:** Standard Letter

**MUS 55143 CANTIQUÉ 1 Credit Hour**

(Repeatable for credit) (Slashed with MUS 45143) A chorus of soprano and alto voices. Open to all students regardless of gender identity. Emphasis on music literacy, vocal production instruction, study and performance of music written for soprano and alto voices. The group performs choral literature spanning many centuries and reflecting diverse cultures. Experience with mixed-voice choirs also occurs. Audition required.

**Prerequisite:** Graduate standing.

**Schedule Type:** Laboratory

**Contact Hours:** 3 lab

**Grade Mode:** Standard Letter

**MUS 55151 KENT STATE UNIVERSITY GOSPEL CHOIR 1 Credit Hour**

(Repeatable for credit) Study and performance of choral music in the gospel tradition, including works by contemporary artists. One weekly rehearsal and a minimum of one concert per semester. Off-campus concerts are possible.

**Prerequisite:** Graduate standing.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 2 other

**Grade Mode:** Standard Letter

**MUS 55212 ORCHESTRA 1 Credit Hour**

(Slashed with MUS 45212 and MUS 75212) (Repeatable for credit) A select group of instrumentalists assembled for the purpose of studying and performing orchestral music. Open to all KSU students, regardless of major. An audition is required.

**Prerequisite:** Graduate standing.

**Schedule Type:** Laboratory, Lecture, Combined Lecture and Lab

**Contact Hours:** 6 other

**Grade Mode:** Standard Letter

**MUS 55221 SYMPHONY BAND 1 Credit Hour**

(Repeatable for credit) Study and performance of music literature for wind band.

**Prerequisite:** Graduate standing.

**Schedule Type:** Studio

**Contact Hours:** 4 other

**Grade Mode:** Standard Letter

**MUS 55222 MARCHING BAND 1 Credit Hour**

(Repeatable for a maximum of 6 credit hours) Study and performance of literature and maneuvers for marching band.

**Prerequisite:** Graduate standing.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 6 other

**Grade Mode:** Standard Letter

**MUS 55223 WIND ENSEMBLE 1 Credit Hour**

(Slashed with MUS 45223 and MUS 75223) (Repeatable for credit) A select concert ensemble that performs the finest in wind instrument literature with emphasis on major original works. An audition is required before registering for this course.

**Prerequisite:** Graduate standing.

**Schedule Type:** Laboratory, Lecture, Combined Lecture and Lab

**Contact Hours:** 4 other

**Grade Mode:** Standard Letter

**MUS 55231 JAZZ ENSEMBLE 1 Credit Hour**

(Repeatable for credit) Study and performance of music literature in the jazz idiom.

**Prerequisite:** Graduate standing.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 7.5 other

**Grade Mode:** Standard Letter

**MUS 55241 TROMBONE ENSEMBLE 1 Credit Hour**

(Repeatable for credit) A thorough study of trombone performance in various size ensembles. Emphasis on original literature from over four centuries.

**Prerequisite:** Graduate standing.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 2 other

**Grade Mode:** Standard Letter

**MUS 55251 PERCUSSION ENSEMBLE 1 Credit Hour**

(Repeatable for credit) A comprehensive study of percussion performance in various size ensembles. Use of keyboard percussion instruments along with drums and accessories. Study of percussion ensemble literature.

**Prerequisite:** Graduate standing.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 5 other

**Grade Mode:** Standard Letter

**MUS 55261 BASSOON ENSEMBLE 1 Credit Hour**

(Repeatable for credit) Study and performance of music for multiple bassoons; emphasis upon refined ensemble playing, interpretation, leadership skills and arranging techniques.

**Prerequisite:** Graduate standing.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 2 other

**Grade Mode:** Standard Letter

**MUS 55271 NEW MUSIC ENSEMBLE 1 Credit Hour**

(Repeatable for credit) Study and performance of 20th- and 21st-century chamber music with an emphasis on works by contemporary composers.

**Prerequisite:** Graduate standing.

**Schedule Type:** Studio

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**MUS 55281 FLUTE ENSEMBLE 1 Credit Hour**

(Repeatable for credit) Study and performance of music for multiple flutes; emphasis upon all aspects of ensemble playing and style considerations will be addressed in both chamber and conducted formats.

**Prerequisite:** Graduate standing.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 2 other

**Grade Mode:** Standard Letter

**MUS 55311 CHAMBER MUSIC 1,2 Credit Hour**

(Repeatable for credit) The study and performance of music for small ensembles.

**Prerequisite:** Graduate standing.

**Schedule Type:** Studio

**Contact Hours:** 2-4 other

**Grade Mode:** Standard Letter

**MUS 55312 WORLD MUSIC ENSEMBLE 1 Credit Hour**

(Course is repeatable for a maximum of 8 credit hours) The World Music Ensemble teaches performance and cultural etiquette associated with traditional and popular world music genres, e.g., African drumming. Specific traditions studied include areas of specialization of instructors and or advanced student participants.

**Prerequisite:** Graduate standing.

**Schedule Type:** Studio

**Contact Hours:** 2 other

**Grade Mode:** Standard Letter

**MUS 55321 ACCOMPANYING 1,2 Credit Hour**

(Repeatable for credit) Accompanying instrumental and vocal soloists; piano ensemble works. Credit counted toward ensemble requirements. One hour credit for two hours of assigned accompanying weekly.

**Prerequisite:** Graduate standing.

**Schedule Type:** Private Lesson, Studio

**Contact Hours:** 1-2 other

**Grade Mode:** Standard Letter

**MUS 58241 VOICE PEDAGOGY 2 Credit Hours**

Survey of techniques, practices and materials of teaching voice.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**MUS 58251 PEDAGOGY OF MUSIC THEORY 2 Credit Hours**

(Slashed with MUS 78251) The principles and techniques of teaching music theory.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**MUS 58257 PEDAGOGY-INSTRUMENTAL 2 Credit Hours**

Principles and techniques of instruction. Literature survey. Analysis of instrumental problems and performance practice. Offered as needed for strings, woodwinds, brass, percussion, organ or guitar.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**MUS 58393 VARIABLE TITLE WORKSHOP IN MUSIC 1-4 Credit Hours**

(Repeatable for credit) Offered for specific professional needs. Emphasis on performance and pedagogical skills.

**Prerequisite:** Graduate standing.

**Schedule Type:** Workshop

**Contact Hours:** 1-4 other

**Grade Mode:** Satisfactory/Unsatisfactory

**MUS 58611 ADVANCED SINGER'S DICTION I 1 Credit Hour**

Advanced training and performance practice in phonetics and singing diction for English and Italian vocal repertoire. Emphasis on learning and application of International Phonetic Alphabet symbols.

**Prerequisite:** Graduate standing.

**Schedule Type:** Laboratory

**Contact Hours:** 2 lab

**Grade Mode:** Standard Letter

**MUS 58612 ADVANCED SINGER'S DICTION II 1 Credit Hour**

Advanced training and performance practice in phonetics and singing diction for German and French vocal repertoire. Emphasis on learning and application of International Phonetic Alphabet symbols.

**Prerequisite:** Graduate standing.

**Schedule Type:** Laboratory

**Contact Hours:** 2 lab

**Grade Mode:** Standard Letter

**MUS 59525 SEMINAR FOR STUDENT TEACHING 3 Credit Hours**

(Slashed with MUS 49525) A capstone discussion of principles of music teaching and pragmatic understanding of school music settings. Seminar serves as the companion course to Student Teaching for the purpose of self-observation, reflection, and analysis. Development of edTPA and portfolio.

**Prerequisite:** Graduate standing; and special approval.

**Corequisite:** MUS 52357.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MUS 61121 HISTORY OF MUSIC THEORY 3 Credit Hours**

(Slashed with MUS 71121) A study of the history of Western music theory from the ancient Greeks to the twentieth century.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MUS 61131 SCHENKERIAN ANALYSIS 3 Credit Hours**

An introduction to musical analysis according to the principles expounded by Heinrich Schenker and later exponents of his ideas.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MUS 61170 MUSIC ANALYSIS 3 Credit Hours**

Selected analytical techniques applied to music from the tonal and post-tonal repertoire. Emphasis on the development of harmonic language and overall formal structures.

**Prerequisite:** Music education major; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MUS 61171 ANALYTICAL TECHNIQUES I 2 Credit Hours**

The application of standard analytical techniques to works of various style periods.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MUS 61172 ANALYTICAL TECHNIQUES II 2 Credit Hours**

The application of standard analytical techniques to works of various style periods.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MUS 61173 WORLD MUSIC ANALYSIS 2 Credit Hours**

Analysis of world music traditions. Analyze and articulate knowledge regarding musical elements, such as timbre, tuning, improvisation, sound patterns, compositional form, and performance techniques of music genres studied. Development of listening and transcription skills as they relate to world music.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture, 3 lab

**Grade Mode:** Standard Letter

**MUS 61181 POST-TONAL THEORY 3 Credit Hours**

A study of the analysis, theories, and compositional strategies applied to the music composed after 1900.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MUS 61191 SEMINAR IN MUSIC SINCE 1900 3 Credit Hours**

(Slashed with MUS 71191) (Repeatable for a maximum of 6 credit hours) Study of analytical techniques and procedures appropriate for the major musical styles of the period. Study of representative compositions through applied analysis. Individual projects in areas of particular interest to the student.

**Prerequisite:** Graduate standing.

**Schedule Type:** Seminar

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**MUS 61211 COMPOSITION 2,4 Credit Hours**

(Repeatable for credit) Original composition using longer forms of music for diverse media including multimedia and electronic composition.

**Prerequisite:** Graduate standing.

**Schedule Type:** Private Lesson, Studio

**Contact Hours:** 1 other

**Grade Mode:** Standard Letter



**MUS 61331 BAND ARRANGING 2 Credit Hours**

Arranging in traditional and contemporary styles for the wind ensemble, concert band and/or marching band.

**Prerequisite:** MUS 51331; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MUS 62227 HISTORY AND LITERATURE OF THE WIND BAND 2 Credit Hours**

Historical survey of wind band literature and the development of the ensemble.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**MUS 62281 SEMINAR IN MUSIC HISTORY AND LITERATURE 3 Credit Hours**

(Repeatable for credit) Selected problems of research in music history and literature. Each student will be responsible for presenting papers for discussion.

**Prerequisite:** Graduate standing.

**Schedule Type:** Seminar

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**MUS 62411 MUSIC BIBLIOGRAPHY AND RESEARCH METHODS 2 Credit Hours**

Study of techniques of music research and creative musical writing including special projects, reports and readings. This course is a hybrid course consisting of both in-class meetings and discussions, as well as online interaction and discussion boards.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**MUS 62412 INTRODUCTION TO ETHNOMUSICOLOGY 3 Credit Hours**

A study of the history, concepts and methods of ethnomusicology, techniques of field research, transcription, analysis and bibliography.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MUS 62413 ADVANCED FIELD AND LAB METHODS IN ETHNOMUSICOLOGY 3 Credit Hours**

Development of professional level research skills in all media of field documentation, transcription, analysis and scholarly writing. Study of current related issues in ethnomusicology.

**Prerequisite:** MUS 62412.

**Schedule Type:** Laboratory

**Contact Hours:** 3 lab

**Grade Mode:** Standard Letter

**MUS 62414 ISSUES AND TRENDS IN ETHNOMUSICOLOGY 2 Credit Hours**

This course studies various issues and trends in the field of ethnomusicology, from its inception to present. The focus centers on intensive discussion of theories, philosophies and paradigms that have dominated the scrutiny of music over the decades and their application in analysis, fieldwork and lab method.

**Prerequisite:** MUS 62412; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MUS 62451 INTRODUCTION TO MUSICOLOGY 3 Credit Hours**

Techniques of music research and creative musical writing including special projects, reports and readings.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MUS 62511 MUSIC HISTORY I 2 Credit Hours**

A study of Western music history from Jewish and medieval Roman practices through Josquin, as well as selected common-practice period applications.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MUS 62521 MUSIC HISTORY II 2 Credit Hours**

A study of Western music history from the Reformation and Counter-Reformation through Bach and Handel.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MUS 62531 MUSIC HISTORY III 2 Credit Hours**

A study of Western music history in the Rococo, Classical, and Romantic periods through Brahms and Wagner.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MUS 62541 MUSIC HISTORY IV 2 Credit Hours**

A study of Western music from Debussy and Mahler through the major trends and composers of the recent past.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MUS 62601 SEMINAR IN MUSICS OF AFRICA 3 Credit Hours**

(Slashed with MUS 72601) Specialized investigations of music cultures of Africa.

**Prerequisite:** Graduate standing.

**Schedule Type:** Seminar

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**MUS 62602 SEMINAR IN MUSICS OF THE AMERICAS 3 Credit Hours**

Specialized investigation of music cultures of the Americas.

**Prerequisite:** Graduate standing.

**Schedule Type:** Seminar

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**MUS 62603 SEMINAR IN MUSICS OF THE MIDDLE EAST 3 Credit Hours**

(Slashed with MUS 72603) Specialized investigation of music cultures of the Middle East.

**Prerequisite:** Graduate standing.

**Schedule Type:** Seminar

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**MUS 62604 SEMINAR IN MUSICS OF EAST ASIA 3 Credit Hours**

Specialized investigation of music cultures of East Asia.

**Prerequisite:** Graduate standing.

**Schedule Type:** Seminar

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**MUS 62606 SEMINAR IN MUSICS OF SOUTHEAST ASIA 3 Credit Hours**

(Slashed with MUS 72606) Specialized investigation of music cultures in Southeast Asia.

**Prerequisite:** Graduate standing.

**Schedule Type:** Seminar

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**MUS 63198 CAPSTONE PROJECT 4 Credit Hours**

(Repeatable for credit) Working under the supervision of a capstone advisor, students demonstrate synthesis of knowledge through the development of curricular project applicable to student's area of teaching.

**Prerequisite:** Graduate standing.

**Schedule Type:** Research

**Contact Hours:** 4 other

**Grade Mode:** Standard Letter-IP

**MUS 63241 INQUIRY IN MUSIC TEACHING I 3 Credit Hours**

Conducting and presenting assessment, evaluation, and research of music teaching and learning with emphasis on quantitative methodologies.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MUS 63242 INQUIRY IN MUSIC TEACHING AND LEARNING II 3 Credit Hours**

Conducting and presenting assessment, evaluation and research of music teaching and learning with emphasis on qualitative methodologies.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MUS 63261 ADVANCED STUDIES IN TEACHING CHORAL MUSIC 3 Credit Hours**

Development of teaching materials, an annotated choral repertory list and instructional strategies for choral music with emphasis on rehearsal procedures and analytical techniques.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MUS 63262 ADVANCED STUDIES IN TEACHING INSTRUMENTAL MUSIC 3 Credit Hours**

Development of teaching materials, an annotated instrumental repertory list and instructional strategies for instrumental music with emphasis on rehearsal procedures and analytical techniques.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MUS 63263 ADVANCED STUDIES IN TEACHING GENERAL MUSIC 3 Credit Hours**

Program development, inclusion, instructional materials and innovative teaching techniques for general music programs.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MUS 63272 LEARNING THEORIES IN MUSIC 3 Credit Hours**

Application of current theories of learning to the teaching and learning of music.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MUS 63273 PSYCHOLOGY OF MUSIC 3 Credit Hours**

The study of music's effect on human behavior including physiological and affective responses. Applications of music psychology to the teaching and learning of music will be explored.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MUS 63274 FOUNDATIONS OF MUSIC EDUCATION 3 Credit Hours**

Study of the field of music education from perspectives of sociology, psychology, philosophy, curriculum, history and comparative curricula.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MUS 63283 RESEARCH IN MUSIC EDUCATION 3 Credit Hours**

Introduction to research techniques in music education including topic selection, data collection analysis and interpretation, and presentation of information in written form.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MUS 63284 HISTORY OF MUSIC EDUCATION 3 Credit Hours**

Study of historical approaches to music education with emphasis on significant people, places and events that have influenced music teaching and learning music.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MUS 63285 PHILOSOPHY OF MUSIC EDUCATION 3 Credit Hours**

(Slashed with MUS 73285) Study of the philosophical foundations of music education with emphasis on the application of aesthetics to teaching and experiencing music.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MUS 63286 SOCIOLOGY OF MUSIC EDUCATION 3 Credit Hours**

Sociology in Music Education focuses on sociocultural issues in music teaching and learning. Students consider contexts of society, background, race, ethnicity, culture, diversity, and pluralism as applicable in music education situations.

**Prerequisite:** Graduate standing.

**Schedule Type:** Seminar

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MUS 64111 CONDUCTING PROJECTS:CHORAL 2,4 Credit Hours**

(Repeatable for credit) Choral conducting techniques, score analysis, rehearsal procedures and study of musical style.

**Prerequisite:** Graduate standing.

**Schedule Type:** Private Lesson

**Contact Hours:** 1 other

**Grade Mode:** Standard Letter

**MUS 64121 CONDUCTING PROJECTS:BAND 2,4 Credit Hours**

(Repeatable for credit) Band conducting techniques, score analysis rehearsal procedures and study of musical style.

**Prerequisite:** Graduate standing.

**Schedule Type:** Private Lesson

**Contact Hours:** 1 other

**Grade Mode:** Standard Letter

**MUS 64131 CONDUCTING PROJECTS:ORCHESTRA 2,4 Credit Hours**

(Repeatable for credit) Orchestra conducting techniques, score analysis, rehearsal procedures and study of musical style.

**Prerequisite:** Graduate standing.

**Schedule Type:** Private Lesson

**Contact Hours:** 1 other

**Grade Mode:** Standard Letter

**MUS 66111 APPLIED MUSIC-GRADUATE PIANO 2,4 Credit Hours**

(Repeatable for credit) A comprehensive study of performance, technique and repertoire appropriate to music majors and minors. Individual study. Students must audition to be accepted into this course.

**Prerequisite:** Music major; and graduate standing.

**Schedule Type:** Private Lesson, Studio

**Contact Hours:** 1.5-2 other

**Grade Mode:** Standard Letter

**MUS 66191 SEMINAR IN ACCOMPANYING 2 Credit Hours**

(Repeatable for credit) Studio performances of standard repertoire for piano and voice or instruments; investigation of other topics relating to the accompanying of the repertoire.

**Prerequisite:** Graduate standing.

**Schedule Type:** Seminar

**Contact Hours:** 2 other

**Grade Mode:** Standard Letter

**MUS 66311 APPLIED MUSIC-GRADUATE VOICE 2,4 Credit Hours**

(Repeatable for credit) A comprehensive study of performance, technique and repertoire appropriate to music majors and minors. Individual study. Students must audition to be accepted into this course.

**Prerequisite:** Music major; and graduate standing; and special approval.

**Schedule Type:** Private Lesson, Studio

**Contact Hours:** 1 other

**Grade Mode:** Standard Letter

**MUS 66411 APPLIED MUSIC-GRADUATE VIOLIN 2,4 Credit Hours**

(Repeatable for credit) A comprehensive study of performance, technique and repertoire appropriate to music majors and minors. Individual study. Students must audition to be accepted into this course.

**Prerequisite:** Music major; and graduate standing; and special approval.

**Schedule Type:** Private Lesson, Studio

**Contact Hours:** 1 other

**Grade Mode:** Standard Letter

**MUS 66412 APPLIED MUSIC-GRADUATE VIOLA 2,4 Credit Hours**

(Repeatable for credit) A comprehensive study of performance, technique and repertoire appropriate to music majors and minors. Individual study. Students must audition to be accepted into this course.

**Prerequisite:** Music major; and graduate standing.

**Schedule Type:** Private Lesson, Studio

**Contact Hours:** 1 other

**Grade Mode:** Standard Letter

**MUS 66413 APPLIED MUSIC-GRADUATE CELLO 2,4 Credit Hours**

(Repeatable for credit) A comprehensive study of performance, technique and repertoire appropriate to music majors and minors. Individual study. Students must audition to be accepted into this course.

**Prerequisite:** Music major; and graduate standing.

**Schedule Type:** Private Lesson, Studio

**Contact Hours:** 1 other

**Grade Mode:** Standard Letter

**MUS 66414 APPLIED MUSIC-GRADUATE DOUBLE BASS 2,4 Credit Hours**

(Repeatable for credit) A comprehensive study of performance, technique and repertoire appropriate to music majors and minors. Individual study. Students must audition to be accepted into this course.

**Prerequisite:** Music major; and graduate standing; and special approval.

**Schedule Type:** Private Lesson, Studio

**Contact Hours:** 1 other

**Grade Mode:** Standard Letter

**MUS 66511 APPLIED MUSIC-GRADUATE FLUTE 2,4 Credit Hours**

(Repeatable for credit) A comprehensive study of performance, technique and repertoire appropriate to music majors and minors. Individual study. Students must audition to be accepted into this course.

**Prerequisite:** Music major; and graduate standing.

**Schedule Type:** Private Lesson, Studio

**Contact Hours:** 1 other

**Grade Mode:** Standard Letter

**MUS 66512 APPLIED MUSIC-GRADUATE OBOE 2,4 Credit Hours**  
(Repeatable for credit) A comprehensive study of performance, technique and repertoire appropriate to music majors and minors. Individual study. Students must audition to be accepted into this course.

**Prerequisite:** Music major; and graduate standing.

**Schedule Type:** Private Lesson, Studio

**Contact Hours:** 1 other

**Grade Mode:** Standard Letter

**MUS 66513 APPLIED MUSIC-GRADUATE CLARINET 2,4 Credit Hours**

(Repeatable for credit) A comprehensive study of performance, technique and repertoire appropriate to music majors and minors. Individual study. Students must audition to be accepted into this course.

**Prerequisite:** Music major; and graduate standing.

**Schedule Type:** Private Lesson, Studio

**Contact Hours:** 1 other

**Grade Mode:** Standard Letter

**MUS 66514 APPLIED MUSIC-GRADUATE BASSOON 2,4 Credit Hours**

(Repeatable for credit) A comprehensive study of performance, technique and repertoire appropriate to music majors and minors. Individual study. Students must audition to be accepted into this course.

**Prerequisite:** Music major; and graduate standing.

**Schedule Type:** Private Lesson, Studio

**Contact Hours:** 1 other

**Grade Mode:** Standard Letter

**MUS 66515 APPLIED MUSIC-GRADUATE SAXOPHONE 2,4 Credit Hours**

(Repeatable for credit) A comprehensive study of performance, technique and repertoire appropriate to music majors and minors. Individual study. Students must audition to be accepted into this course.

**Prerequisite:** Music major; and graduate standing.

**Schedule Type:** Private Lesson, Studio

**Contact Hours:** 1 other

**Grade Mode:** Standard Letter

**MUS 66611 APPLIED MUSIC-GRADUATE TRUMPET 2,4 Credit Hours**

(Repeatable for credit) A comprehensive study of performance, technique and repertoire appropriate to music majors and minors. Individual study. Students must audition to be accepted into this course.

**Prerequisite:** Music major; and graduate standing.

**Schedule Type:** Private Lesson, Studio

**Contact Hours:** 1 other

**Grade Mode:** Standard Letter

**MUS 66612 APPLIED MUSIC-GRADUATE HORN 2,4 Credit Hours**

(Repeatable for credit) A comprehensive study of performance, technique and repertoire appropriate to music majors and minors. Individual study. Students must audition to be accepted into this course.

**Prerequisite:** Music major; and graduate standing.

**Schedule Type:** Private Lesson, Studio

**Contact Hours:** 1 other

**Grade Mode:** Standard Letter

**MUS 66613 APPLIED MUSIC-GRADUATE TROMBONE 2,4 Credit Hours**

(Repeatable for credit) A comprehensive study of performance, technique and repertoire appropriate to music majors and minors. Individual study. Students must audition to be accepted into this course.

**Prerequisite:** Music major; and graduate standing.

**Schedule Type:** Private Lesson, Studio

**Contact Hours:** 1 other

**Grade Mode:** Standard Letter

**MUS 66615 APPLIED MUSIC-GRADUATE TUBA 2,4 Credit Hours**  
(Repeatable for credit) A comprehensive study of performance, technique and repertoire appropriate to music majors and minors. Individual study. Students must audition to be accepted into this course.

**Prerequisite:** Music major; and graduate standing.

**Schedule Type:** Private Lesson, Studio

**Contact Hours:** 1 other

**Grade Mode:** Standard Letter

**MUS 66711 APPLIED MUSIC-GRADUATE PERCUSSION 2,4 Credit Hours**

(Repeatable for credit) A comprehensive study of performance, technique and repertoire appropriate to music majors and minors. Individual study. Students must audition to be accepted into this course.

**Prerequisite:** Music major; and graduate standing.

**Schedule Type:** Private Lesson, Studio

**Contact Hours:** 1 other

**Grade Mode:** Standard Letter

**MUS 67243 TECHNOLOGY FOR MUSIC TEACHING 3 Credit Hours**

Study of a variety of music software and hardware; students design and implement a project pertaining to their professional interest.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MUS 68199 THESIS I 2-6 Credit Hours**

Thesis students must register for a total of 6 hours, 2 to 6 hours in a single semester distributed over several semesters if desired.

**Prerequisite:** Graduate standing.

**Schedule Type:** Masters Thesis

**Contact Hours:** 2-6 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**MUS 68214 PIANO PEDAGOGY I 2 Credit Hours**

Individual and group piano teaching, including teaching methods and the history of piano pedagogy.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**MUS 68215 PIANO PEDAGOGY II 2 Credit Hours**

Individual and group piano teaching. Building an independent studio and career networking.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**MUS 68299 THESIS II 2 Credit Hours**

Thesis students must continue registration each semester until all degree requirements are met.

**Prerequisite:** MUS 68199; and graduate standing.

**Schedule Type:** Masters Thesis

**Contact Hours:** 2 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**MUS 68598 RESEARCH 1-15 Credit Hours**

(Repeatable for credit) Research or individual investigation for master's level graduate students.

**Prerequisite:** Graduate standing.

**Schedule Type:** Research

**Contact Hours:** 1-15 other

**Grade Mode:** Standard Letter-IP

**MUS 68687 RECITAL 1-3 Credit Hours**

Required of all performance majors and music education majors who choose performance option.

**Prerequisite:** Graduate standing.

**Schedule Type:** Studio

**Contact Hours:** 1-3 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**MUS 68698 ESSAY 1-3 Credit Hours**

(Repeatable for credit) Required of performance majors and music education majors who choose the recital and essay option.

**Prerequisite:** Graduate standing.

**Schedule Type:** Research

**Contact Hours:** 1-3 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**MUS 71121 HISTORY OF MUSIC THEORY 3 Credit Hours**

A study of the history of Western music theory from the ancient Greeks to the twentieth century.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MUS 71131 SCHENKERIAN ANALYSIS 3 Credit Hours**

An introduction to musical analysis according to the principles expounded by Heinrich Schenker and later exponents of his ideas.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MUS 71141 16TH-CENTURY COUNTERPOINT 3 Credit Hours**

Two-, three- and four-part vocal counterpoint in 16th century style.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MUS 71151 18TH-CENTURY COUNTERPOINT 3 Credit Hours**

Technique of writing counterpoint in 18th-century style especially that of J. S. Bach.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MUS 71171 ANALYTICAL TECHNIQUES I 2 Credit Hours**

The application of standard analytical techniques to works of various style periods.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MUS 71172 ANALYTICAL TECHNIQUES II 2 Credit Hours**

The application of standard analytical techniques to works of various style periods.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MUS 71181 POST-TONAL THEORY 3 Credit Hours**

A study of the analysis, theories, and compositional strategies applied to the music composed after 1900.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MUS 71191 SEMINAR IN MUSIC SINCE 1900 3 Credit Hours**

(Slashed with MUS 61191) (Repeatable for a maximum of 6 credit hours) Study of analytical techniques and procedures appropriate for the major musical styles of the period. Study of representative compositions through applied analysis. Individual projects in areas of particular interest to the student.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Seminar

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**MUS 71195 SPECIAL PROJECTS IN THEORETICAL STUDIES 3 Credit Hours**

(Repeatable for credit) Individual and class investigation into specific methods of analysis and their application to music in various styles.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MUS 71331 BAND ARRANGING 2 Credit Hours**

Arranging in traditional and contemporary styles for the wind ensemble, concert band and/or marching band.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MUS 72281 SEMINAR IN MUSIC HISTORY AND LITERATURE 3 Credit Hours**

(Repeatable for credit) Selected problems of research in music history and literature. Each student will be responsible for presenting papers for discussion.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Seminar

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**MUS 72412 INTRODUCTION TO ETHNOMUSICOLOGY 3 Credit Hours**

A study of the history, concepts and methods of ethnomusicology, techniques of field research, transcription analysis and bibliography.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MUS 72413 ADVANCED FIELD AND LAB METHODS IN ETHNOMUSICOLOGY 3 Credit Hours**

Development of professional level research skills in all media of field documentation, transcription analysis and scholarly writing. Study of current related issues in ethnomusicology.

**Prerequisite:** MUS 62412; and doctoral standing.

**Schedule Type:** Laboratory

**Contact Hours:** 3 lab

**Grade Mode:** Standard Letter



**MUS 72451 INTRODUCTION TO MUSICOLOGY 3 Credit Hours**

Techniques of music research and creative musical writing including special projects, reports and readings.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MUS 72511 MUSIC HISTORY I 2 Credit Hours**

A study of Western music history from Jewish and medieval Roman practices through Josquin, as well as selected common-practice period applications.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MUS 72521 MUSIC HISTORY II 2 Credit Hours**

A study of Western music history from the Reformation and Counter-Reformation through Bach and Handel.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MUS 72531 MUSIC HISTORY III 2 Credit Hours**

A study of Western music history in the Rococo, Classical, and Romantic periods through Brahms and Wagner.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MUS 72541 MUSIC HISTORY IV 2 Credit Hours**

A study of Western music from Debussy and Mahler through the major trends and composers of the recent past.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MUS 72601 SEMINAR IN MUSICS OF AFRICA 3 Credit Hours**

(Slashed with MUS 62601) Specialized investigations of music cultures of Africa.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Seminar

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**MUS 72602 SEMINAR IN MUSICS OF THE AMERICAS 3 Credit Hours**

Specialized investigation of music cultures of the Americas.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Seminar

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**MUS 72603 SEMINAR IN MUSICS OF THE MIDDLE EAST 3 Credit Hours**

(Slashed with MUS 62603) Specialized investigation of music cultures of the Middle East.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Seminar

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**MUS 72604 SEMINAR IN MUSICS OF EAST ASIA 3 Credit Hours**

Specialized investigation of music cultures of East Asia.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Seminar

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**MUS 72606 SEMINAR IN MUSICS OF SOUTHEAST ASIA 3 Credit Hours**

(Slashed with MUS 62606) Specialized investigation of music cultures in Southeast Asia.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Seminar

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**MUS 72691 SEMINAR IN ETHNOMUSICOLOGY 3 Credit Hours**

(Repeatable for credit) Specialized topics in ethnomusicology for advanced students.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Seminar

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**MUS 73261 ADVANCED STUDIES IN SECONDARY CHORAL AND GENERAL MUSIC 3 Credit Hours**

Review curriculum in secondary general music and development of innovative teaching materials and strategies. Analytical techniques, rehearsal procedures, repertory suitable for secondary school choral ensembles.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MUS 73262 ADVANCED STUDIES IN INSTRUMENTAL MUSIC 3 Credit Hours**

Study of curriculum, method techniques and materials in school instrumental music education.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MUS 73263 ADVANCED STUDIES IN GENERAL MUSIC FOR CHILDREN 3 Credit Hours**

Study of trends in philosophy, curriculum and program development, instructional materials and innovative teaching techniques for elementary school and early childhood general music.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MUS 73272 LEARNING THEORIES IN MUSIC 3 Credit Hours**

Application of current theories of learning to the teaching and learning of music.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MUS 73273 PSYCHOLOGY OF MUSIC 3 Credit Hours**

The study of music's effect on human behavior including physiological and affective responses. Applications of music psychology to the teaching and learning of music will be explored.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MUS 73274 FOUNDATIONS OF MUSIC EDUCATION 3 Credit Hours**

Study of the influences on the field of music education, including sociology, psychology, philosophy, curriculum and history.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MUS 73283 RESEARCH IN MUSIC EDUCATION 3 Credit Hours**

Introduction to research techniques in music education including topic selection, data collection analysis and interpretation and presentation of information in written form.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MUS 73284 HISTORY OF MUSIC EDUCATION 3 Credit Hours**

Study of historical approaches to music education with emphasis on significant people, places and events that have influenced teaching and learning music.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MUS 73285 PHILOSOPHY OF MUSIC EDUCATION 3 Credit Hours**

(Slashed with MUS 63285) Study of the philosophical foundations of music education with emphasis on the application of aesthetics to teaching and experiencing music.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MUS 73286 SOCIOLOGY OF MUSIC EDUCATION 3 Credit Hours**

Sociology in Music Education focuses on sociocultural issues in music teaching and learning. Students consider contexts of society, background, race, ethnicity, culture, diversity and pluralism as applicable in music education situations.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Seminar

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MUS 73295 SPECIAL TOPICS IN MUSIC EDUCATION 3 Credit Hours**

(Repeatable for credit) Advanced study in selected topics that will vary from semester to semester depending on needs and interests of students.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Seminar

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**MUS 73381 ADVANCED RESEARCH IN MUSIC EDUCATION 3 Credit Hours**

The design, implementation and reporting of research studies that illustrate a variety of methodological and statistical plans for research in music education.

**Prerequisite:** MUS 6/73283; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MUS 74111 CONDUCTING PROJECTS:CHORAL 2,4 Credit Hours**

(Repeatable for credit) Choral conducting techniques, score analysis, rehearsal procedures and study of musical style.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Private Lesson

**Contact Hours:** 1 other

**Grade Mode:** Standard Letter

**MUS 74121 CONDUCTING PROJECTS:BAND 2,4 Credit Hours**

(Repeatable for credit) Band conducting techniques, score analysis, rehearsal procedures and study of musical style.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Private Lesson

**Contact Hours:** 1 other

**Grade Mode:** Standard Letter

**MUS 74131 CONDUCTING PROJECTS:ORCHESTRA 2,4 Credit Hours**

(Repeatable for credit) Orchestra conducting techniques, score analysis rehearsal procedures and study of musical style.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Private Lesson

**Contact Hours:** 1 other

**Grade Mode:** Standard Letter

**MUS 75131 OPERA:SINGER-ACTOR TECHNIQUES 1 Credit Hour**

(Repeatable for credit) A course designed to give the young singing actor practical operatic experience in the performance of portions of or complete operas.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Studio

**Contact Hours:** 9.5 other

**Grade Mode:** Standard Letter

**MUS 75141 KENT STATE UNIVERSITY CHORALE 1 Credit Hour**

(Repeatable for credit) Study and performance of literature for vocal chamber ensemble from medieval through contemporary styles sung in the original language with appropriate accompaniment. An audition is required before registering for this course.

**Prerequisite:** Doctoral standing; and special approval.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 4.5 other

**Grade Mode:** Standard Letter

**MUS 75212 ORCHESTRA 1 Credit Hour**

(Slashed with MUS 45212 and MUS 55212) (Repeatable for credit) A select group of instrumentalists assembled for the purpose of studying and performing orchestral music. Open to all KSU students, regardless of major. An audition is required.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Laboratory, Lecture, Combined Lecture and Lab

**Contact Hours:** 6 other

**Grade Mode:** Standard Letter

**MUS 75223 WIND ENSEMBLE 1 Credit Hour**

(Slashed with MUS 45223 and MUS 55223) (Repeatable for credit) A select concert ensemble that performs the finest in wind instrument literature with emphasis on major original works. Open to all KSU students, regardless of major. An audition is required.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Laboratory, Lecture, Combined Lecture and Lab

**Contact Hours:** 4 other

**Grade Mode:** Standard Letter

**MUS 75231 JAZZ ENSEMBLE 1 Credit Hour**

(Repeatable for credit) Study and performance of music literature in the jazz idiom.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 7.5 other

**Grade Mode:** Standard Letter

**MUS 75271 NEW MUSIC ENSEMBLE 1 Credit Hour**

(Repeatable for credit) Study and performance of 20th- and 21st-century chamber music with an emphasis on works by contemporary composers.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Studio

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**MUS 75311 CHAMBER MUSIC 1,2 Credit Hour**

(Repeatable for credit) (Slashed with MUS 45311 and MUS 55311) The study and performance of music for small ensembles.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Studio

**Contact Hours:** 2-4 other

**Grade Mode:** Standard Letter

**MUS 78251 PEDAGOGY OF MUSIC THEORY 2 Credit Hours**

(Slashed with MUS 58251) The principles and techniques of teaching music theory.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**MUS 78393 VARIABLE TITLE WORKSHOP IN MUSIC 1-4 Credit Hours**

(Repeatable for credit) Offered for specific professional needs. Emphasis on performance and pedagogical skills.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Workshop

**Contact Hours:** 1-4 other

**Grade Mode:** Satisfactory/Unsatisfactory

**MUS 81196 INDIVIDUAL INVESTIGATION IN MUSIC THEORY 1-6 Credit Hours**

(Repeatable for credit) Intensive research or readings on selected topic beyond normal course coverage.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Individual Investigation

**Contact Hours:** 1-6 other

**Grade Mode:** Satisfactory/Unsatisfactory

**MUS 81211 COMPOSITION 2,4 Credit Hours**

(Repeatable for credit) Refinement of compositional techniques culminating in large-scale works for media of student's choice.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Private Lesson, Studio

**Contact Hours:** 1 other

**Grade Mode:** Standard Letter

**MUS 82291 SEMINAR IN MUSICOLOGY 3 Credit Hours**

(Repeatable for credit) Examination into primary sources, treatises and writings in selected areas in Western music. Topics selected range from medieval period to present.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Seminar

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**MUS 82396 INDIVIDUAL INVESTIGATION IN MUSICOLOGY 1-6 Credit Hours**

(Repeatable for credit) Intensive research or readings on selected topic beyond normal course coverage.

**Prerequisite:** Doctoral standing; and special approval.

**Schedule Type:** Individual Investigation

**Contact Hours:** 1-6 other

**Grade Mode:** Satisfactory/Unsatisfactory

**MUS 82696 INDIVIDUAL INVESTIGATION IN ETHNOMUSICOLOGY 1-6 Credit Hours**

(Repeatable for credit) Intensive research or readings on selected topic beyond normal course coverage.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Individual Investigation

**Contact Hours:** 1-6 other

**Grade Mode:** Satisfactory/Unsatisfactory

**MUS 83196 INDIVIDUAL INVESTIGATION IN MUSIC EDUCATION 1-6 Credit Hours**

(Repeatable for credit) Intensive research or readings on selected topic beyond normal course coverage.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Individual Investigation

**Contact Hours:** 1-6 other

**Grade Mode:** Satisfactory/Unsatisfactory

**MUS 86001 SEMINAR IN MUSIC EDUCATION I 3 Credit Hours**

This course prepares students for doctoral study in music education. Topics include understanding tasks and skills necessary for PhD study in music education, along with navigating this study at Kent State. Students interact in seminar format as part of a cohort of students pursuing the study of music teaching and learning.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Seminar

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MUS 86002 SEMINAR IN MUSIC EDUCATION II 3 Credit Hours**

This doctoral level course is designed to ready students for final activities of PhD study in music education. Goals include preparation for qualifying exams, understanding of the research proposal process, and exploration of advanced research methodologies and protocols necessary to undertake a dissertation and or significant research project.

**Prerequisite:** MUS 86001, CI 87000 and EVAL 75510; and doctoral standing.

**Schedule Type:** Seminar

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MUS 88199 DISSERTATION I 15 Credit Hours**

(Repeatable for credit) Doctoral dissertation for which registration in at least two semesters is required, first of which will be semester in which dissertation work is begun and continuing until the completion of 30 hours.

**Prerequisite:** Pass candidacy examination; and doctoral standing.

**Schedule Type:** Dissertation

**Contact Hours:** 15 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**MUS 88299 DISSERTATION II 15 Credit Hours**

(Repeatable for credit) Continuing registration required of doctoral students who have completed the initial 30 hours of dissertation and continuing until all degree requirements are met.

**Prerequisite:** MUS 88199; and doctoral standing.

**Schedule Type:** Dissertation

**Contact Hours:** 15 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**MUS 88598 RESEARCH 1-15 Credit Hours**

(Repeatable for credit) Research or individual investigation for doctoral students who have not yet passed their candidacy examinations.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Research

**Contact Hours:** 1-15 other

**Grade Mode:** Standard Letter-IP

## School of Theatre and Dance

### Dance (DAN)

**DAN 17001 STUDIO MODERN I 1 Credit Hour**

(Repeatable for credit) Practice of basic modern dance technique. Open to all university students.

**Prerequisite:** None.

**Schedule Type:** Studio

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**DAN 17002 STUDIO MODERN DANCE II 1 Credit Hour**

(Repeatable for credit) Exploration of modern dance technique foundations and improvisation with emphasis on the movement and performing qualities of modern dance. Open to all university students.

**Prerequisite:** DAN 17001.

**Schedule Type:** Studio

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**DAN 17004 STUDIO JAZZ I 1 Credit Hour**

(Repeatable for credit) Practice of basic jazz techniques. Open to all university students.

**Prerequisite:** None.

**Schedule Type:** Studio

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**DAN 17005 STUDIO JAZZ II 1 Credit Hour**

(Repeatable for credit) Continuation of jazz dance technique foundations with emphasis on more advanced dance combinations. Open to all university students.

**Prerequisite:** DAN 17004.

**Schedule Type:** Studio

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**DAN 17007 STUDIO TAP I 1 Credit Hour**

(Repeatable for credit) Basic tap steps and combinations with varying sound intensities and rhythms. Open to all university students.

**Prerequisite:** None.

**Schedule Type:** Studio

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**DAN 17008 STUDIO TAP II 1 Credit Hour**

(Repeatable for credit) Continuation of tap dance technique foundations with emphasis on more advanced dance combinations.

**Prerequisite:** DAN 17007.

**Schedule Type:** Studio

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**DAN 17009 STUDIO TAP III 1 Credit Hour**

(Repeatable for a maximum of 8 credit hours) Advanced tap dance techniques with emphasis on clarity, speed and performance skills.

**Prerequisite:** DAN 17008.

**Schedule Type:** Studio

**Contact Hours:** 1 other

**Grade Mode:** Standard Letter

**DAN 17010 STUDIO BALLET I 1 Credit Hour**

(Repeatable for credit) Introduction to the foundations of ballet placement, vocabulary and movement for the beginner. Open to all university students.

**Prerequisite:** None.

**Schedule Type:** Studio

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**DAN 17011 STUDIO BALLET II 1 Credit Hour**

(Repeatable for credit) Continuation of ballet technique foundations with emphasis on more advanced dance combinations. Open to all university students.

**Prerequisite:** DAN 17010.

**Schedule Type:** Studio

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**DAN 17012 STUDIO BALLET III 1 Credit Hour**

(Repeatable for credit) This course presents high intermediate ballet techniques for the serious non-major dance student. Students will apply the principles of body alignment to an ever expanding movement vocabulary. Intricate combinations in adagio, petite and grand allegro and turns will be offered. Focus will be on the strength, flexibility and endurance required to master movements at this more advanced level.

**Prerequisite:** DAN 17011.

**Schedule Type:** Studio

**Contact Hours:** 2 other

**Grade Mode:** Standard Letter

**DAN 17013 STUDIO AFRICAN DANCE I 1 Credit Hour**

(Repeatable for credit) Designed to acquaint students with basic elements of African dance. Open to all university students.

**Prerequisite:** None.

**Schedule Type:** Studio

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**DAN 17016 STUDIO SWING DANCE I 1 Credit Hour**

(Repeatable for credit) Practice of basic swing dance movements with emphasis on social partnering skills. Open to all students.

**Prerequisite:** None.

**Schedule Type:** Studio

**Contact Hours:** 1 other

**Grade Mode:** Standard Letter

**DAN 17019 STUDIO HIP HOP I 1 Credit Hour**

(Repeatable for credit) Introduction to Hip Hop dance including warm-up techniques, movement across the floor and dance combinations. Open to all university students. No previous experience is necessary.

**Prerequisite:** None.

**Schedule Type:** Studio

**Contact Hours:** 2 other

**Grade Mode:** Standard Letter

**DAN 17020 STUDIO HIP HOP II 1 Credit Hour**

(Repeatable for credit) Hip Hop II is for students with previous experience in hip hop and will explore in greater depth fundamentals, history, technique and personal style.

**Prerequisite:** DAN 17019.

**Schedule Type:** Studio

**Contact Hours:** 2 other

**Grade Mode:** Standard Letter

**DAN 17049 FUNDAMENTALS OF BALLET AND MODERN DANCE 2 Credit Hours**

(Repeatable for credit) Introduction to intensive exploration of ballet and modern dance technique for nonmajors with special emphasis on alignment, body awareness and movement vocabulary.

**Prerequisite:** DAN 17001 and 17010.

**Schedule Type:** Studio

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**DAN 17050 INTRODUCTION TO DANCE 1 Credit Hour**

Overview of modern dance as a performing art. Specifically focusing on preparation, basic knowledge and career choices.

**Prerequisite:** Dance major; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 1 lecture

**Grade Mode:** Standard Letter

**DAN 17051 MODERN DANCE TECHNIQUE I-A 3 Credit Hours**

(Repeatable for credit) Development of skill acquisition in basic technique, understanding and appreciation for the creative nature of dance through exposure to improvisational experiences.

**Prerequisite:** Dance major; and special approval.

**Schedule Type:** Studio

**Contact Hours:** 9 other

**Grade Mode:** Standard Letter

**DAN 17052 BALLET I-A 2 Credit Hours**

(Repeatable for credit) Ballet techniques: pre-barre; beginning barre and beginning center work.

**Prerequisite:** Dance major; and special approval.

**Schedule Type:** Studio

**Contact Hours:** 6 other

**Grade Mode:** Standard Letter

**DAN 17053 PRINCIPLES OF DANCE MECHANICS I 2 Credit Hours**

The study and application of alignment and basic movement principles to dance techniques.

**Prerequisite:** Dance major; and special approval.

**Corequisite:** DAN 17051 or 17052.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**Attributes:** TAG Arts and Humanities

**DAN 17055 STUDIO MEN'S BALLET 1 Credit Hour**

(Repeatable for credit) Men's Ballet allows male-identifying students to receive training to enhance their ballet skills. Goals include improving overall placement and ballet technique while focusing on style and movements particular to the male danseur.

**Prerequisite:** Special approval.

**Schedule Type:** Studio

**Contact Hours:** 2 other

**Grade Mode:** Standard Letter

**DAN 17080 MUSICAL THEATRE RUDIMENTS OF JAZZ AND TAP 1 Credit Hour**

Rudiments of Jazz and Tap will lay the foundation of beginning musical theatre Jazz and Tap. The beginning student will learn proper vocabulary and proper alignment for both mediums of dance.

**Prerequisite:** Special approval.

**Schedule Type:** Studio

**Contact Hours:** 2 other

**Grade Mode:** Standard Letter

**DAN 17100 STUDIO POINTE I 1 Credit Hour**

(Repeatable for credit) Studio Pointe I allows students with previous experience dancing en pointe to work at the beginning to low intermediate level. The class explores ballet vocabulary and repertory at the barre, center, and travelling across the space, specifically in pointe shoes.

**Prerequisite:** Special approval.

**Schedule Type:** Studio

**Contact Hours:** 2 other

**Grade Mode:** Standard Letter



**DAN 17150 STUDIO POINTE II 1 Credit Hour**

(Repeatable for credit) Studio Pointe II allows students with previous experience dancing en pointe to continue to work at the intermediate to advanced level. The class explores ballet vocabulary and repertory at the barre, center, and travelling across the space, specifically in pointe shoes, building on concepts and vocabulary learned in Studio Pointe II; although experienced students may be permitted directly in to Studio Point II with the instructor's permission. Emphasis is placed on execution, development thereof, application of corrections, and performance expression.

**Prerequisite:** Special approval.

**Schedule Type:** Studio

**Contact Hours:** 2 other

**Grade Mode:** Standard Letter

**DAN 17151 MODERN DANCE TECHNIQUE I-B 3 Credit Hours**

(Repeatable for credit) Continued exploration of basic modern dance technique and improvisation begun in DAN 17051. Continued study of dance innovators and their historical significance.

**Prerequisite:** DAN 17051; and dance major; and special approval.

**Schedule Type:** Studio

**Contact Hours:** 9 other

**Grade Mode:** Standard Letter

**DAN 17152 BALLET I-B 2 Credit Hours**

(Repeatable for credit) Continuation of ballet techniques studied in DAN 17052.

**Prerequisite:** DAN 17052; and dance major; and special approval.

**Schedule Type:** Studio

**Contact Hours:** 6 other

**Grade Mode:** Standard Letter

**DAN 27070 JAZZ STYLES I 2 Credit Hours**

(Repeatable for credit) Development of basic jazz dance skills for dance majors and minors.

**Prerequisite:** Special approval.

**Schedule Type:** Studio

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**DAN 27071 MODERN DANCE TECHNIQUE II-A 3 Credit Hours**

(Repeatable for credit) Intermediate modern dance styles emphasizing complex movement phrases.

**Prerequisite:** DAN 17051; and special approval.

**Schedule Type:** Studio

**Contact Hours:** 9 other

**Grade Mode:** Standard Letter

**DAN 27072 BALLET II-A 2 Credit Hours**

(Repeatable for credit) Intermediate ballet technique.

**Prerequisite:** DAN 17152; and dance major; and special approval.

**Schedule Type:** Studio

**Contact Hours:** 6 other

**Grade Mode:** Standard Letter

**DAN 27074 DANCE COMPOSITION I 3 Credit Hours**

(Repeatable for a maximum of 6 credit hours) Movement exploration and improvisation including developing the body as an instrument of expression.

**Prerequisite:** Special approval.

**Schedule Type:** Studio

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**Attributes:** TAG Arts and Humanities

**DAN 27076 DANCE AS AN ART FORM (DIVG) (KFA) 3 Credit Hours**

Survey of the various types, styles and functions of dance with emphasis on understanding dance as an art form and an expression of culture.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Diversity Global, Kent Core Fine Arts, Transfer Module Fine Arts

**DAN 27080 MUSICAL THEATRE JAZZ AND TAP I 2 Credit Hours**

This course serves the advanced beginner to intermediate level musical theatre dance student. Students will build on the foundation of Rudiments of Jazz and Tap. They will learn more difficult concepts and steps and work to apply those concepts and steps in their dancing.

**Prerequisite:** DAN 17080; and special approval.

**Schedule Type:** Studio

**Contact Hours:** 4 other

**Grade Mode:** Standard Letter

**DAN 27170 JAZZ STYLES II 2 Credit Hours**

(Repeatable for credit) Continued development of basic jazz dance skills.

**Prerequisite:** DAN 27070; and special approval.

**Schedule Type:** Studio

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**DAN 27171 MODERN DANCE TECHNIQUE II-B 3 Credit Hours**

(Repeatable for credit) Continuation of intermediate level dance styles with emphasis on complex movement phrases.

**Prerequisite:** DAN 27071; and special approval.

**Schedule Type:** Studio

**Contact Hours:** 9 other

**Grade Mode:** Standard Letter

**DAN 27172 BALLET II-B 2 Credit Hours**

(Repeatable for credit) Continuation of intermediate ballet technique.

**Prerequisite:** DAN 27072; and special approval.

**Schedule Type:** Studio

**Contact Hours:** 6 other

**Grade Mode:** Standard Letter

**DAN 28010 DANCE ACCOMPANIMENT LABORATORY I 2 Credit Hours**

(Course is repeatable for a maximum of 4 credit hours) Students will be introduced to the techniques and strategies of modern dance and ballet technique class accompaniment. Emphasis is placed on supervised student accompaniment and acquiring familiarity with dance class protocols, procedures, and the accompanist-instructor relationship. Course meets concurrently with one of the professional-level modern dance or ballet technique classes offered by the Dance Division.

**Prerequisite:** None.

**Schedule Type:** Laboratory

**Contact Hours:** 4 lab

**Grade Mode:** Standard Letter

**DAN 37035 DANCE COMPOSITION II 2 Credit Hours**

Basic principles of dance composition with attention to design, thematic material, structure, form and small groups.

**Prerequisite:** DAN 27074; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**DAN 37053 PRINCIPLES OF DANCE MECHANICS II 2 Credit Hours**

(Repeatable for a maximum of 16 credit hours) Continuation of DAN 17053.

**Prerequisite:** DAN 17053; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**DAN 37057 DANCE FOR CHILDREN 3 Credit Hours**

(Repeatable for a maximum of 6 credit hours) The theory and practice of children's dance in the pre-school, elementary, middle schools, private studio and recreation settings.

**Prerequisite:** Dance or Early Childhood Education major.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**DAN 37058 METHODS AND MATERIALS OF DANCE 3 Credit Hours**

(Repeatable for a maximum of 6 credit hours) Theory and practice of teaching dance technique from middle school to adults with an emphasis on modern dance.

**Prerequisite:** DAN 37057; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**DAN 37067 BALLET III-A 2 Credit Hours**

(Repeatable for a maximum of 8 credit hours) Advanced ballet technique.

**Prerequisite:** DAN 27172; and special approval.

**Schedule Type:** Studio

**Contact Hours:** 6 other

**Grade Mode:** Standard Letter

**DAN 37068 MODERN DANCE TECHNIQUE III-A 3 Credit Hours**

(Repeatable for a maximum of 15 credit hours) Advanced modern dance technique.

**Prerequisite:** DAN 27171; and special approval.

**Schedule Type:** Studio

**Contact Hours:** 9 other

**Grade Mode:** Standard Letter

**DAN 37070 DANCE COMPOSITION III 2 Credit Hours**

(Repeatable for a maximum of 8 credit hours) Development of individual movement style through improvisational studies and movement manipulation exercises of structure and form resulting in a substantial solo modern dance work.

**Prerequisite:** DAN 37035; and special approval.

**Schedule Type:** Studio

**Contact Hours:** 2 other

**Grade Mode:** Standard Letter

**DAN 37071 MOVEMENT NOTATION 2 Credit Hours**

Analyzing and recording human movement. The common aspects of movement in all forms of sports, dance and aquatics. Analysis and recording with the labanotation system.

**Prerequisite:** Dance major; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**DAN 37072 DANCE AND TECHNOLOGY 2 Credit Hours**

This course introduces students to new technologies as resources for creative expression, performance and documentation of dance. Students will learn a brief history of screen dance, techniques for archiving dance, shooting and editing video with dance as the subject and approaches to interactive performance. Students will gain a basic understanding of how new media interacts with current practice in dance creation, production, education and research.

**Prerequisite:** Dance major or minor; and special approval.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**DAN 37080 MUSICAL THEATRE JAZZ AND TAP II 2 Credit Hours**

This class is a continuation of the building of jazz and tap skills, as the steps increase in difficulty. Course will incorporate sequencing of transition steps which smoothly connect one set of steps to another.

**Prerequisite:** DAN 27080; and special approval.

**Schedule Type:** Studio

**Contact Hours:** 4 other

**Grade Mode:** Standard Letter

**DAN 37081 MUSICAL THEATRE JAZZ AND TAP III 2 Credit Hours**

Continuation of Jazz and Tap techniques building on skills suitable for and required in professional audition circumstances. Course will assist advanced student to fine tune jazz and tap skills for auditions.

**Prerequisite:** DAN 37080; and special approval.

**Schedule Type:** Studio

**Contact Hours:** 4 other

**Grade Mode:** Standard Letter

**DAN 37167 BALLET III-B 2 Credit Hours**

(Repeatable for credit) Continuation of advanced ballet technique.

**Prerequisite:** DAN 37067; and special approval.

**Schedule Type:** Studio

**Contact Hours:** 6 other

**Grade Mode:** Standard Letter

**DAN 37168 MODERN DANCE TECHNIQUE III-B 3 Credit Hours**

(Repeatable for credit) Continuation of advanced modern dance technique.

**Prerequisite:** DAN 37068; and special approval.

**Schedule Type:** Studio

**Contact Hours:** 9 other

**Grade Mode:** Standard Letter

**DAN 37170 DANCE COMPOSITION IV 1 Credit Hour**

Exploration of advanced composition skills in preparation for the B.F.A. senior choreography project and future choreographic endeavors.

**Prerequisite:** DAN 37070; and special approval.

**Schedule Type:** Studio

**Contact Hours:** 1 other

**Grade Mode:** Standard Letter

**DAN 37192 DANCE PRACTICUM (ELR) 1 Credit Hour**

(Repeatable for a total of 4 hours) practical experience in co-curriculum dance activities under faculty supervision.

**Prerequisite:** Special approval.

**Schedule Type:** Practical Experience, Studio

**Contact Hours:** 3 other

**Grade Mode:** Satisfactory/Unsatisfactory

**Attributes:** Experiential Learning Requirement

**DAN 37272 KENT DANCE ENSEMBLE 2 Credit Hours**

(Repeatable for credit) Participation in rehearsal, preparation and performance of public dance concerts in an established dance ensemble.

**Prerequisite:** Special approval.

**Schedule Type:** Studio

**Contact Hours:** 6 other

**Grade Mode:** Standard Letter

**DAN 37310 MUSIC FOR DANCERS 3 Credit Hours**

Students will build theoretical, analytical and performance skills in music specific to the needs of dancers, dance teachers and choreographers.

**Prerequisite:** Special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**DAN 38001 APPLIED SKILLS FOR DANCE ACCOMPANIMENT 2 Credit Hours**

(Course is repeatable for a maximum of 8 credit hours) Private applied music instruction in performance skills necessary to accompany a modern dance or ballet class. Emphasis is placed on hand drum and frame drum technique, keyboard repertoire, and keyboard improvisation skills.

**Prerequisite:** DAN 28010.

**Schedule Type:** Private Lesson

**Contact Hours:** 1.5 other

**Grade Mode:** Standard Letter

**DAN 38010 DANCE ACCOMPANIMENT LABORATORY II 1-4 Credit Hours**

(Course is repeatable) Students will receive intermediate and advanced instruction in modern dance or ballet technique class accompaniment. Emphasis will be placed on continued development of accompaniment strategies for specific styles of movement and increasing the students' range of accompaniment repertoire and improvisational vocabulary.

**Prerequisite:** Two semesters of DAN 28010; and special approval.

**Schedule Type:** Laboratory

**Contact Hours:** 2-8 other

**Grade Mode:** Standard Letter

**DAN 47055 BALLET IV-A 2 Credit Hours**

(Repeatable for credit) A continuation of DAN 37167 with increasing clarity and control of movements.

**Prerequisite:** DAN 37167.

**Schedule Type:** Studio

**Contact Hours:** 6 other

**Grade Mode:** Standard Letter

**DAN 47060 PROFESSIONAL ASPECTS IN DANCE 2 Credit Hours**

Development of pragmatic skills for entrance into professional dance careers. Emphasis on resume writing, preparation for auditions and economic survival.

**Prerequisite:** DAN 27170; and special approval.

**Schedule Type:** Studio

**Contact Hours:** 2 other

**Grade Mode:** Standard Letter

**DAN 47063 DANCE HISTORY I 3 Credit Hours**

History of dance from antiquity to 1900.

**Prerequisite:** Dance major; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** TAG Arts and Humanities

**DAN 47070 JAZZ STYLES III 2 Credit Hours**

(Repeatable for credit) Jazz style for students with advanced dance technique.

**Prerequisite:** DAN 27170; and special approval.

**Schedule Type:** Studio

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**DAN 47080 MUSICAL THEATRE DANCE STYLES I 2 Credit Hours**

Advanced Jazz and Tap class for Musical Theatre students to develop the stylization skills of musical theatre dance and performance. Students will work on stylization of movement by learning three different production numbers. One of a vernacular style, one classic style, and one involving partnering.

**Prerequisite:** DAN 37081; and special approval.

**Schedule Type:** Studio

**Contact Hours:** 4 other

**Grade Mode:** Standard Letter

**DAN 47081 MUSICAL THEATRE DANCE STYLES II 2 Credit Hours**

Students will work to prepare a professional dance reel (a video record of their skills and accomplishments). The student's skills will include various media (jazz, tap, ballet, gymnastics, partnering, etc.) and styles (Charleston, Swing, Waltz, dances of the 50s, 60s, 70s, etc.). Students will be ready to submit dance reels, which they will prepare in the course of the semester. Provisions will be made for those students who do not desire or require a dance reel.

**Prerequisite:** DAN 47080; and special approval.

**Schedule Type:** Studio

**Contact Hours:** 4 other

**Grade Mode:** Standard Letter

**DAN 47095 SPECIAL TOPICS IN DANCE 1-3 Credit Hours**

(Repeatable for a total of 24 hours) offered when resources permit a topic different from existing courses. Topic to be announced when scheduled.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 1-3 lecture

**Grade Mode:** Standard Letter

**DAN 47155 BALLET IV-B 2 Credit Hours**

(Repeatable for credit) A continuation of DAN 47055 with increasing clarity and dynamic expression.

**Prerequisite:** DAN 47055; and special approval.

**Schedule Type:** Studio

**Contact Hours:** 6 other

**Grade Mode:** Standard Letter

**DAN 47156 DANCE PRODUCTION 3 Credit Hours**

Study of elements involved in planning and implementing a concert. Experiential work in technical and management components.

**Prerequisite:** Dance major; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**DAN 47163 DANCE HISTORY II (WIC) 3 Credit Hours**

History of the development of concert and theatrical dance forms from 1900 to present day.

**Prerequisite:** DAN 47063; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Writing Intensive Course

**DAN 47170 JAZZ STYLES IV 2 Credit Hours**

(Repeatable for credit) Continuation of DAN 47070.

**Prerequisite:** DAN 47070; and special approval.**Schedule Type:** Studio**Contact Hours:** 3 other**Grade Mode:** Standard Letter**DAN 47174 SENIOR CHOREOGRAPHY PROJECT (ELR) 1 Credit Hour**

Creation of a modern dance work to be performed with full production values in an approved setting.

**Prerequisite:** DAN 37170; and special approval.**Schedule Type:** Studio**Contact Hours:** 1 other**Grade Mode:** Standard Letter-IP**Attributes:** Experiential Learning Requirement**DAN 47175 CAPSTONE PROJECT (ELR) 1-3 Credit Hours**

The capstone project represents a culminating event for the student. Capstone projects can be taken in the junior or senior year and are identified in consultation with a faculty advisor. Honor students may combine the capstone project with an Honors thesis.

**Prerequisite:** Junior standing; and special approval.**Schedule Type:** Senior Project/Honors Thesis**Contact Hours:** 1-3 other**Grade Mode:** Satisfactory/Unsatisfactory**Attributes:** Experiential Learning Requirement**DAN 47192 INTERNSHIP IN DANCE (ELR) 1 Credit Hour**

(Repeatable for credit) Supervised dance apprenticeship in an approved educational setting.

**Prerequisite:** Dance major; and special approval.**Schedule Type:** Practical Experience**Contact Hours:** 3 other**Grade Mode:** Standard Letter**Attributes:** Experiential Learning Requirement**DAN 47196 INDIVIDUAL INVESTIGATION IN DANCE 1-3 Credit Hours**

(Repeatable for credit) Individual projects for dance majors.

**Prerequisite:** Junior standing; and special approval.**Schedule Type:** Individual Investigation**Contact Hours:** 1-3 other**Grade Mode:** Standard Letter-IP**DAN 47525 STUDENT TEACHING IN DANCE (ELR) 9 Credit Hours**

This experience provides for a full semester of student teaching in the broadest range of multi-age school settings.

**Prerequisite:** DAN 47192; Dance major and admission to student teaching and Official valid certification of Child Safety Training, approved Basic Life Support and ALICE Training must be presented to the campus office of clinical experience or designated faculty/staff at Regional campuses as prerequisite for student teaching; and special approval.**Schedule Type:** Practical Experience**Contact Hours:** 9 other**Grade Mode:** Satisfactory/Unsatisfactory-IP**Attributes:** Experiential Learning Requirement**Kent Blossom Theatre (KBT)****KBT 22092 PRACTICUM I:DESIGN/TECHNOLOGY (ELR) 3 Credit Hours**

(Repeatable for a maximum of 12 credit hours) Practical experience in theatre production under faculty supervision. Available for lower division students only.

**Prerequisite:** Freshman and sophomore standing only.**Schedule Type:** Practical Experience**Contact Hours:** 3 other**Grade Mode:** Satisfactory/Unsatisfactory**Attributes:** Experiential Learning Requirement**KBT 22192 PRACTICUM I:PERFORMANCE (ELR) 3 Credit Hours**

(Repeatable for a total of 12 hours) practical experience in theatre performance under faculty supervision. Available for lower division students only. Repeatable for a total of 12 hours.

**Prerequisite:** Freshman and sophomore standing only.**Schedule Type:** Practical Experience**Contact Hours:** 3 other**Grade Mode:** Satisfactory/Unsatisfactory**Attributes:** Experiential Learning Requirement**KBT 41096 INDIVIDUAL STUDY:THEATRE 1-3 Credit Hours**

(Repeatable for a total of 12 hours) Selected research topics in theatre.

**Prerequisite:** Permission.**Schedule Type:** Individual Investigation**Contact Hours:** 1-3 other**Grade Mode:** Standard Letter-IP**KBT 41992 THEATRE PRODUCTION INTERNSHIP (ELR) 1-6 Credit Hours**

(Repeatable for a maximum of 12 credit hours) Intensive advanced training in practical aspects of production. Periodic seminars, laboratory sessions and performance in Porthouse Theatre Company.

**Prerequisite:** Junior standing; and special approval.**Schedule Type:** Practical Experience**Contact Hours:** 1-6 other**Grade Mode:** Satisfactory/Unsatisfactory**Attributes:** Experiential Learning Requirement**KBT 42092 PRACTICUM II: DESIGN/TECHNOLOGY (ELR) 3 Credit Hours**

(Repeatable for a maximum of 12 credit hours) Advanced practical experience in theatre production under faculty supervision. Available for upper division students only.

**Prerequisite:** Junior and senior standing only.**Schedule Type:** Practical Experience**Contact Hours:** 3 other**Grade Mode:** Satisfactory/Unsatisfactory**Attributes:** Experiential Learning Requirement**KBT 42192 PRACTICUM II:PERFORMANCE (ELR) 3 Credit Hours**

(Repeatable for a maximum of 12 credit hours) Advanced practical experience in theatre performance under faculty supervision. Available for upper division students only.

**Prerequisite:** Junior and senior standing.**Schedule Type:** Practical Experience**Contact Hours:** 3 other**Grade Mode:** Satisfactory/Unsatisfactory**Attributes:** Experiential Learning Requirement



**KBT 60199 M.F.A.. THESIS 3 Credit Hours**

(Repeatable for credit) Students must register for course during the semester of their MFA thesis project.

**Prerequisite:** Graduate standing; and special approval of adviser.

**Schedule Type:** Masters Thesis

**Contact Hours:** 3 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**KBT 60992 PROFESSIONAL THEATRE INTERNSHIP I 1,6 Credit Hour**

(Cross-listed with THEA 60992) (Repeatable once for credit) Intensive advanced training in practical aspects of production. Periodic seminars, laboratory sessions and performance in the Porthouse Theatre Company.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Practical Experience

**Contact Hours:** 1-6 other

**Grade Mode:** Satisfactory/Unsatisfactory

**KBT 61096 INDIVIDUAL INVESTIGATION:THEATRE AND DRAMA 1-4 Credit Hours**

(Repeatable for a maximum of 6 credit hours) Independent study of an area or problem approved by divisional graduate coordinator in consultation with project director.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Individual Investigation

**Contact Hours:** 1-4 other

**Grade Mode:** Standard Letter-IP

**KBT 61992 PROFESSIONAL THEATRE INTERNSHIP II 1,6 Credit Hour**

Intensive advanced training in practical aspects of production. Periodic seminars, laboratory sessions and performance in Porthouse Theatre Company.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Practical Experience

**Contact Hours:** 1-6 other

**Grade Mode:** Satisfactory/Unsatisfactory

**KBT 62092 PRACTICUM: DESIGN/TECHNOLOGY 3 Credit Hours**

(Repeatable for credit) Practical experience for the graduate student in theatre design and technology under faculty supervision.

**Prerequisite:** Graduate standing.

**Schedule Type:** Practical Experience

**Contact Hours:** 3 other

**Grade Mode:** Satisfactory/Unsatisfactory

**KBT 62192 PRACTICUM:PERFORMANCE 3 Credit Hours**

(Repeatable for a maximum of 12 credit hours) (Cross-listed with THEA 62192) Practical experience for the graduate student in theatre performance under faculty supervision.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Practical Experience

**Contact Hours:** 3 other

**Grade Mode:** Satisfactory/Unsatisfactory

**KBT 62992 THEATRE PRODUCTION INTERNSHIP 1-6 Credit Hours**

(Repeatable for a maximum of 12 credit hours) Intensive advanced training in practical aspects of production. Periodic seminars, laboratory sessions and performance in Porthouse Theatre Company.

**Prerequisite:** Graduate standing; and special approval of adviser.

**Schedule Type:** Practical Experience

**Contact Hours:** 1-6 other

**Grade Mode:** Satisfactory/Unsatisfactory

**KBT 72992 THEATRE PRODUCTION INTERNSHIP 1-6 Credit Hours**

(Repeatable for a maximum of 12 credit hours) Intensive advanced training in practical aspects of production. Periodic seminars, laboratory sessions and performance in Porthouse Theatre Company.

**Prerequisite:** Doctoral standing; and special approval of adviser.

**Schedule Type:** Practical Experience

**Contact Hours:** 1-6 other

**Grade Mode:** Satisfactory/Unsatisfactory

**Theatre (THEA)****THEA 11000 THE ART OF THE THEATRE (DIVG) (KFA) 3 Credit Hours**

Using the life-centered nature of theatre as a medium of analysis, this course is designed to develop critically engaged audience members who are aware of the impact, significance and historical relevance of the interconnection between culture and theatre performance.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Diversity Global, Kent Core Fine Arts, Transfer Module Fine Arts

**THEA 11100 MAKING THEATRE: CULTURE AND PRACTICE 2 Credit Hours**

Overview of theatre practices through creative experiential learning. The focus and course content combines practical and cultural experiences and culminates with a performance event that provides a solid foundation in the artistic process and an identity for the first-year theatre student.

**Prerequisite:** Special approval.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**THEA 11303 THE ART OF ACTING 3 Credit Hours**

General introduction to acting: the actor's instrument, sensory awareness, personal and group response, objectives and tactics. Basic scene work.

**Prerequisite:** Special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** TAG Arts and Humanities

**THEA 11521 GRAPHICS FOR THE THEATRE 3 Credit Hours**

An introduction to computer software currently used by professional theatre designers and technicians. These applications include image processing software, computer-aided design software and 3D visualization software.

**Prerequisite:** Special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**THEA 11722 FUNDAMENTALS OF PRODUCTION I: SCENERY, STAGECRAFT AND SOUND 2 Credit Hours**

An introduction to professional theatre production principles and practices in the areas of scenery, stagecraft and sound.

**Prerequisite:** Special approval.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**Attributes:** CTAG Performing Arts, TAG Arts and Humanities



**THEA 11723 FUNDAMENTALS OF PRODUCTION LABORATORY I: SCENERY 1 Credit Hour**

Practice in theatre production techniques in the area of scenery.

**Prerequisite:** Special approval.

**Corequisite:** THEA 11722.

**Schedule Type:** Laboratory

**Contact Hours:** 2 lab

**Grade Mode:** Standard Letter

**Attributes:** TAG Arts and Humanities

**THEA 11724 FUNDAMENTALS OF PRODUCTION LABORATORY II: PROPS AND SCENIC ART 1 Credit Hour**

Practice in theatre production techniques in the area of properties and scenic art.

**Prerequisite:** Special approval.

**Corequisite:** THEA 11722.

**Schedule Type:** Laboratory

**Contact Hours:** 2 lab

**Grade Mode:** Standard Letter

**Attributes:** CTAG Performing Arts, TAG Arts and Humanities

**THEA 11732 FUNDAMENTALS OF PRODUCTION II: COSTUMES, LIGHTING AND PROJECTIONS 2 Credit Hours**

An introduction to professional theatre production principles and practices in the areas of costumes, lighting and projections.

**Prerequisite:** Special approval.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**Attributes:** CTAG Performing Arts

**THEA 11733 FUNDAMENTALS OF PRODUCTION LABORATORY III: COSTUMES 1 Credit Hour**

Practice in theatre production techniques in the area of costumes.

**Prerequisite:** Special approval.

**Corequisite:** THEA 11732.

**Schedule Type:** Laboratory

**Contact Hours:** 2 lab

**Grade Mode:** Standard Letter

**THEA 11734 FUNDAMENTALS OF PRODUCTION LABORATORY IV: LIGHTING, SOUND AND PROJECTIONS 1 Credit Hour**

Practice in theatre production techniques in the area of lighting, sound and projections.

**Prerequisite:** Special approval.

**Corequisite:** THEA 11732.

**Schedule Type:** Laboratory

**Contact Hours:** 2 lab

**Grade Mode:** Standard Letter

**THEA 13092 BACHELOR OF FINE ARTS FRESHMAN PRACTICUM: DESIGN AND TECHNOLOGY (ELR) 1 Credit Hour**

(Repeatable for credit) Practical experience at the freshman level in theatre and dance production.

**Prerequisite:** Theatre design, technology and production major; and special approval.

**Schedule Type:** Practical Experience

**Contact Hours:** 3 other

**Grade Mode:** Satisfactory/Unsatisfactory

**Attributes:** Experiential Learning Requirement

**THEA 20202 MUSIC THEORY FOR MUSICAL THEATRE I 3 Credit Hours**

Study the basic principles and applications of music theory as it may apply to the work of a professional singing actor. It will begin by gaining a thorough understanding of the rudiments of music and progress to studying the objective and subjective aspects of music and its structure, principally pertaining to the world of musical theatre. The course is intended to establish fundamental concepts to be further explored in THEA 20202.

**Prerequisite:** Special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**THEA 20203 MUSIC THEORY FOR MUSICAL THEATRE II 3 Credit Hours**

Study the basic principles and applications of music theory as it may apply to the work of a professional singing actor. Course focuses on the interpretation of music for musical theater and serves as a continuation of the material presented in THEA 20202.

**Prerequisite:** Special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**THEA 21016 MAKEUP FOR STAGE AND SCREEN 3 Credit Hours**

Study of stage, TV and photographic makeup techniques and materials. Four lecture demonstration laboratory hours per week; special projects as assigned.

**Prerequisite:** Special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**THEA 21095 SPECIAL TOPICS IN THEATRE 1-3 Credit Hours**

(Repeatable for credit) Offered irregularly when unusual resources permit a topic different from existing courses. Topic will be announced when scheduled.

**Prerequisite:** Special approval.

**Schedule Type:** Lecture

**Contact Hours:** 1-3 lecture

**Grade Mode:** Standard Letter

**THEA 21111 SCRIPT ANALYSIS 3 Credit Hours**

Principles, theories and techniques of play script analysis for theatrical production.

**Prerequisite:** THEA 11100; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** TAG Arts and Humanities

**THEA 21201 INTRODUCTION TO AMERICAN MUSICAL THEATRE 3 Credit Hours**

The evolution of the American musical from comic opera, European operetta and African American jazz to today's commercial Broadway stage. Students engage in the traditions, identity, and socio-economic development of the quintessential American art form: Musical Theatre.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**THEA 21303 ACTING PROCESS 3 Credit Hours**

Fundamentals of naturalistic acting and interaction; development of spontaneity, believability and a sense of truth; game playing and basic stage technique.

**Prerequisite:** Special approval.

**Schedule Type:** Studio

**Contact Hours:** 2 lecture, 1 lab

**Grade Mode:** Standard Letter

**THEA 21306 MUSICAL THEATRE PERFORMANCE I 3 Credit Hours**

(Repeatable for a maximum of 12 credit hours) Performance-oriented class that will focus on techniques and styles of performance in musical theatre and cabaret from Gilbert and Sullivan to present.

**Prerequisite:** Musical theatre major.

**Schedule Type:** Studio

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**THEA 21501 SOPHOMORE PORTFOLIO REVIEW 1 Credit Hour**

Preparation and review of a portfolio of work, judged by the design technology faculty at the beginning of the spring semester. Student must pass to remain in the BFA design technology program.

**Prerequisite:** Special approval.

**Schedule Type:** Studio

**Contact Hours:** 1 other

**Grade Mode:** Satisfactory/Unsatisfactory

**THEA 21521 THEATRICAL DRAFTING 3 Credit Hours**

Drafting techniques for all design and technology students. Includes plans, elevations, sections, detailed drawings light plots.

**Prerequisite:** THEA 11521 and THEA 11722 and THEA 11723; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**THEA 21522 LIGHTING DESIGN 3 Credit Hours**

Exploration of the tools of the lighting designer applied to design choices; frequent paper design projects.

**Prerequisite:** THEA 11732 and THEA 11734; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**THEA 21523 COSTUME TECHNOLOGY 3 Credit Hours**

Study of the basics of costume construction, pattern drafting, tailoring and millinery for costumes in the performing arts. A variety of historical periods and styles are covered. Students create portfolio-quality projects.

**Prerequisite:** THEA 11732; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**THEA 21524 COSTUME DESIGN 3 Credit Hours**

Theory and practice of costume design. Emphasis on play text analysis, formation of concepts, use of design elements and principles, period styles.

**Prerequisite:** THEA 11732; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**THEA 21526 BASIC COSTUME CONSTRUCTION 3 Credit Hours**

Course is designed to provide the student with a more advanced set of sewing skills in preparation for stitcher positions in the entertainment field. Prepares students for more advanced costume technology courses.

**Prerequisite:** THEA 11732; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**THEA 21528 SOUND AND PROJECTION DESIGN AND TECHNOLOGY 3 Credit Hours**

Studies in sound design and projection design with emphasis on practical application and specific processes related to designing for theatre and dance.

**Prerequisite:** THEA 11521; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**THEA 21621 SCENE PAINTING 3 Credit Hours**

Techniques of scene painting; emphasis on a variety of techniques through practical projects.

**Prerequisite:** THEA 11722 and THEA 11724; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**THEA 21622 SCENE DESIGN 3 Credit Hours**

Theory and practice of scene design; emphasis on script analysis, formation of concepts, use of design elements and principles in period styles and genres.

**Prerequisite:** THEA 11722 and THEA 11723; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**THEA 21700 MOVEMENT I 3 Credit Hours**

Beginning exploration of technical skills emphasizing the physical components of expressive action through integration of breath, text and body conditioning.

**Prerequisite:** Special approval.

**Schedule Type:** Studio

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**THEA 21736 STAGE MANAGEMENT 3 Credit Hours**

Introduction to the skills and techniques necessary to stage manage a theatrical production. Focus on the production process, preparing for and running rehearsals and performances, paperwork and communication skills.

**Prerequisite:** Special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**THEA 21800 VOICE I 3 Credit Hours**

Breathing, physical alignment, sound and text explorations designed to develop relaxed, free and fully connected voice production for the actor. Proper use and care of the voice.

**Prerequisite:** Special approval.

**Schedule Type:** Studio

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**THEA 22092 PRACTICUM: DESIGN AND TECHNOLOGY (ELR) 1-3 Credit Hours**

(Repeatable for credit) Practical experience in theatre production under faculty supervision. Available for lower-division students only. Required of all theatre majors.

**Prerequisite:** Special approval.

**Schedule Type:** Practical Experience

**Contact Hours:** 1-3 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**Attributes:** Experiential Learning Requirement, TAG Arts and Humanities

**THEA 22192 PRACTICUM I: PERFORMANCE (ELR) 3 Credit Hours**

(Repeatable for credit) Practical experience in theatre performance under faculty supervision. Available for lower-division students only.

**Prerequisite:** Special approval.

**Schedule Type:** Practical Experience

**Contact Hours:** 3 lecture

**Grade Mode:** Satisfactory/Unsatisfactory

**Attributes:** Experiential Learning Requirement, TAG Arts and Humanities

**THEA 22292 PRACTICUM I: THEATRE MANAGEMENT (ELR) 3 Credit Hours**

(Repeatable for a maximum of 12 credit hours) Practical experience in theatre management under faculty supervision.

**Prerequisite:** Freshmen or sophomore only; and special approval.

**Schedule Type:** Practical Experience

**Contact Hours:** 3 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**Attributes:** Experiential Learning Requirement

**THEA 23092 BACHELOR OF FINE ARTS SOPHOMORE PRACTICUM: DESIGN AND TECHNOLOGY (ELR) 1 Credit Hour**

(Repeatable for credit) Practical experience at the sophomore level in theatre and dance production.

**Prerequisite:** Theatre design, technology and production major; and special approval.

**Schedule Type:** Practical Experience

**Contact Hours:** 3 other

**Grade Mode:** Satisfactory/Unsatisfactory

**Attributes:** Experiential Learning Requirement

**THEA 31110 HISTORY OF THEATRE AND DRAMA I 3 Credit Hours**

Theatre history and drama in Europe from antiquity through the renaissance.

**Prerequisite:** THEA 21111; and junior standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**THEA 31111 HISTORY OF THEATRE AND DRAMA II 3 Credit Hours**

Theatre history and drama in Europe and the United States from 1700 to the present.

**Prerequisite:** THEA 21111; and junior standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**THEA 31303 CHARACTER AND SCENE STUDY I 3 Credit Hours**

The development of character in the realistic scene.

**Prerequisite:** THEA 21303; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**THEA 31304 CHARACTER AND SCENE STUDY II 3 Credit Hours**

Further character and scene exploration; spontaneity and creative choice making.

**Prerequisite:** THEA 31303; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**THEA 31401 DIRECTING 3 Credit Hours**

Theoretical and practical work in the process of play direction; the director's mission; play analysis and design collaboration; the rehearsal process.

**Prerequisite:** Special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**THEA 31501 JUNIOR PORTFOLIO REVIEW 1 Credit Hour**

Review of a portfolio of theatre and related work, and a review of the student's academic progress and coursework judged by the design/technology faculty at the beginning of the spring semester. Student must pass to remain in the BFA program.

**Prerequisite:** Theatre design, production and technology major; and junior standing; and special approval.

**Schedule Type:** Studio

**Contact Hours:** 1 other

**Grade Mode:** Satisfactory/Unsatisfactory

**THEA 31526 FLAT PATTERNING FOR THEATRE 3 Credit Hours**

The course is designed to provide the student with a basic set of skills in flat patterning techniques, using the sloper (a basic fitted pattern from which patterns for different styles can be developed) and individualizing patterns to meet the actors costume needs. This class is also preparatory for more advanced costume technology courses.

**Prerequisite:** THEA 21526.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**THEA 31701 MOVEMENT II 3 Credit Hours**

Development of movement exploration and improvisation skills which focus on physical relationships in performance and utilize the components of energy, space and time.

**Prerequisite:** THEA 11303 or THEA 21306; and special approval.

**Schedule Type:** Studio

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**THEA 31801 VOICE II 3 Credit Hours**

Continuation of THEA 21800. Explorations involve various texts and incorporation of voice principles at a more detailed level.

**Prerequisite:** THEA 21800; and special approval.

**Schedule Type:** Studio

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**THEA 33092 BACHELOR OF FINE ARTS JUNIOR PRACTICUM: DESIGN AND TECHNOLOGY (ELR) 2 Credit Hours**

(Repeatable for credit) Practical experience at the junior level in theatre and dance production.

**Prerequisite:** Theatre design, technology and production major; and special approval.

**Schedule Type:** Practical Experience

**Contact Hours:** 6 other

**Grade Mode:** Satisfactory/Unsatisfactory

**Attributes:** Experiential Learning Requirement

**THEA 40091 VARIABLE TOPICS SEMINAR: DEVISING THEATRE 3 Credit Hours**

(Slashed with THEA 50091) A devised theatre event is work that has emerged and been generated by a group of people working in collaboration. Devising Theatre explores the processes of creating original performances defined and determined by its makers. Process and product originate from stimuli other than traditional play scripts. Students learn specialist techniques by developing solo and group performance pieces. Alternative modes of making theatre performances are considered.

**Prerequisite:** Special approval.

**Schedule Type:** Seminar

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**THEA 41010 THEATRE AND SOCIAL CHANGE 3 Credit Hours**

(Slashed with THEA 51010) This course interweaves the history, theory, practice and play text development in the field of theatre and social change.

**Prerequisite:** THEA 11000 or THEA 11100.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**THEA 41026 PLAYWRITING (WIC) 3 Credit Hours**

(Repeatable for a total of 6 credit hours)(Slashed with THEA 51026) Principles underlying playwriting for the contemporary theatre; analysis of short play form.

**Prerequisite:** Special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Writing Intensive Course

**THEA 41027 ADVANCED PLAYWRITING 3 Credit Hours**

(Repeatable for a maximum of 6 credit hours)(Slashed with THEA 51026) Application of principles of playwriting to the longer play and to variations from traditional realism; play analysis and composition.

**Prerequisite:** THEA 41026; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**THEA 41095 SPECIAL TOPICS IN THEATRE 1-3 Credit Hours**

(Repeatable for credit)(Slashed with THEA 51026) Course offered irregularly when unusual resources permit a topic different from existing courses. Topic will be announced when scheduled.

**Prerequisite:** Special approval.

**Schedule Type:** Lecture

**Contact Hours:** 1-3 lecture

**Grade Mode:** Standard Letter

**THEA 41096 INDEPENDENT STUDY IN THEATRE 1-3 Credit Hours**

(repeatable for a total of 6 hours) selected research topics in theatre; to be elected only after all coursework in study area completed.

**Prerequisite:** Special approval.

**Schedule Type:** Individual Investigation

**Contact Hours:** 1-3 other

**Grade Mode:** Standard Letter-IP

**THEA 41113 THEATRE IN A MULTICULTURAL AMERICA (DIVD) 3 Credit Hours**

(Slashed with THEA 51113) A study of theatre and drama in the Native American, Hispanic-American, African-American and Asian-American communities in the United States from 1980 to the present.

**Prerequisite:** Special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Diversity Domestic

**THEA 41115 LGBTQ THEATRE (DIVD) 3 Credit Hours**

(Slashed with THEA 51115) Studies of various theatrical representations of Lesbian, Gay, Bisexual, Transgender and Queer people as seen through the frameworks of history, gender theory, identity, politics, psychology, law and justice.

**Prerequisite:** Junior standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Diversity Domestic

**THEA 41130 THEATRE AND DRAMA IN AMERICA 3 Credit Hours**

(Slashed with THEA 51130) The history of theatre and drama in America from their beginnings to the present.

**Prerequisite:** THEA 21111; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**THEA 41140 AMERICAN MUSICAL THEATRE HISTORY (WIC) 3 Credit Hours**

Comprehensively examines the history of American musical theater and incorporates the exploration of musical literature in production and performance.

**Prerequisite:** Theatre major; and junior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Writing Intensive Course

**THEA 41191 VARIABLE CONTENT SEMINAR: THEATRE HISTORY, LITERATURE AND THEORY 3 Credit Hours**

(Repeatable for credit)(Slashed with THEA 51191) Seminar in theatre history and literature providing an in-depth focus on selected topics such as: African-American theatre, women in theatre, politics and theatre, theatre in a multicultural society, costume history on stage and screen.

**Prerequisite:** Special approval.

**Schedule Type:** Seminar

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**THEA 41301 ACTING FOR THE CAMERA I 3 Credit Hours**

(Slashed with THEA 51301) Introduction to the specific techniques used in film acting. The course provides students with the necessary tools to make the transition from stage acting to camera acting.

**Prerequisite:** Special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**THEA 41302 ACTING FOR THE CAMERA II 3 Credit Hours**

(Slashed with THEA 51302) Further development on the specific techniques used in film acting. The course continues to assist students in making the transition from stage acting to camera acting.

**Prerequisite:** Special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**THEA 41304 ACTING II-SCENE STUDY-MODERN AMERICAN REALISM 3 Credit Hours**

(Slashed with THEA 51304) The application of the Stanislavski and Michael Chekhov Techniques to in-depth scene study using the plays of Odets, Miller, Williams, Shanley and others.

**Prerequisite:** None.

**Schedule Type:** Studio

**Contact Hours:** 4 other

**Grade Mode:** Standard Letter

**THEA 41305 PROFESSIONAL ASPECTS: PERFORMANCE 3 Credit Hours**

(Slashed with THEA 51305) A study of the practical demands and requirements of a professional acting career with particular emphasis on audition skills. Also covered: pictures and resumes, making rounds, professional unions, casting directors, agents and managers, the job market and career prospects.

**Prerequisite:** Junior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**THEA 41306 PROFESSIONAL ASPECTS: DESIGN AND TECHNOLOGY 3 Credit Hours**

A study of the practical demands and requirements of a professional career in design and technology, including portfolio development, resumes, unions, job market, financial matters and career prospects. Use of computers as a resource and tool emphasized.

**Prerequisite:** Junior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**THEA 41307 MUSICAL THEATRE PERFORMANCE II 3 Credit Hours**

Repeatable for credit. Advanced work in musical theatre performance techniques for junior- and senior-level students. Course content includes selecting appropriate musical theatre audition material and developing contrasting selections from the musical theatre repertory. Preparation for musical theatre auditions is included.

**Prerequisite:** THEA 21306; and special approval.

**Schedule Type:** Studio

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**THEA 41308 MUSICAL THEATRE AUDITION 2 Credit Hours**

(Repeatable for a maximum of 4 credit hours)(Slashed with THEA 51308) Explore the various genres and styles of American musical theatre songs with specific emphasis on finding practical audition repertoire for each student. Performance and research will be the primary activities in the class.

**Prerequisite:** Special approval.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**THEA 41401 ADVANCED DIRECTING 3 Credit Hours**

(Slashed with THEA 51401) Advanced work in directing for the theatre. Topics include the director as creative/interpretative artist and the director and the actor; students direct individual projects.

**Prerequisite:** THEA 11303 and THEA 31401; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**THEA 41420 THEATRICAL DRAFTING II 3 Credit Hours**

(Slashed with THEA 51420) Advanced 2D and 3D drafting techniques for technical directors and theatre designers. Representation of scenery through drafting using current AutoCAD software.

**Prerequisite:** THEA 21521.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**THEA 41430 ADVANCED CONSTRUCTION THEORY 3 Credit Hours**

(Slashed with THEA 51430) The theory and practice of structural and mechanical design for theatre production. Related issues in resource management for the professional shop, including reliably predicting the performance of untraditional, unusual or unfamiliar structures and use of mathematical models, formulas, and representative diagrams.

**Prerequisite:** THEA 11722 and THEA 41560; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**THEA 41440 SHOP MANAGEMENT 3 Credit Hours**

(Slashed with THEA 51440) Study of resource management, both human and non-human, for professional and academic shops. Topics include scheduling, budgeting, health and safety, interactions with other theatre workers and leadership development.

**Prerequisite:** THEA 11722; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**THEA 41499 MUSICAL THEATRE SHOWCASE (ELR) 2 Credit Hours**

(Repeatable for credit) (Slashed with THEA 51499) Development, promotion, and presentation of a Musical Theatre showcase for industry casting personnel in New York City. Audition required prior to registration for this course.

**Prerequisite:** Senior standing; and special approval.

**Schedule Type:** Senior Project/Honors Thesis

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**Attributes:** Experiential Learning Requirement



**THEA 41501 SENIOR PORTFOLIO REVIEW 1 Credit Hour**

Review of a portfolio of theatre and related work, and a review of the student's academic progress coursework and professional potential judged by the design technology faculty at the end of the fall semester. Student must pass to remain eligible for the bfa design technology degree.

**Prerequisite:** Theatre design, production and technology major; senior standing and; special approval.

**Schedule Type:** Studio

**Contact Hours:** 1 other

**Grade Mode:** Satisfactory/Unsatisfactory

**THEA 41521 ADVANCED LIGHTING TECHNOLOGY I 3 Credit Hours**

(Slashed with THEA 51521) Advanced study of the technologies used in lighting design; conventional and intelligent fixtures, electricity, projection techniques and special effects.

**Prerequisite:** THEA 11732 and THEA 11734; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**THEA 41522 DESIGN STUDIO: LIGHTING 3 Credit Hours**

(Slashed with THEA 51522) Advanced study of lighting design, emphasizing artistic style and concept through a variety of design problems.

**Prerequisite:** THEA 21522; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**THEA 41523 SOUND DESIGN AND TECHNOLOGY I 3 Credit Hours**

(Slashed with THEA 51523) Sound design for the theatre, sound production and sound reinforcement techniques. Introduction to electronic equipment mixing consoles amplifiers speakers.

**Prerequisite:** Special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**THEA 41524 DESIGN STUDIO: COSTUME 3 Credit Hours**

(Slashed with THEA 51524) Advanced study in costume design. Genres styles in the context of performance spaces with an emphasis on research, practical considerations of costume production and communication between designer shop/personnel and designer director.

**Prerequisite:** THEA 21524; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**THEA 41525 PROPS AND CRAFTS 3 Credit Hours**

(Slashed with THEA 51525) Examination of the processes related to the creation and procurement of scenic and costume props.

**Prerequisite:** THEA 11722 and THEA 11732; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**THEA 41526 ADVANCED LIGHTING TECHNOLOGY II 3 Credit Hours**

(Slashed with THEA 51526) Course focuses on the practice of intelligent lighting programming and the technology of intelligent lighting fixtures.

**Prerequisite:** Special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**THEA 41527 SOUND DESIGN AND TECHNOLOGY II 3 Credit Hours**

(Slashed with THEA 51527) Studies in sound design, sound production and reinforcement for live performance. Advanced software applications will be explored.

**Prerequisite:** THEA 41523; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**THEA 41528 THEATRE SOUND REINFORCEMENT 3 Credit Hours**

(Slashed with THEA 51528) Studies in the theories and practice of audio mixing in support of live vocal and musical performance. Topics include wired and wireless microphones and real time digital processing of audio.

**Prerequisite:** THEA 41523; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**THEA 41529 ADVANCED WIG AND MAKEUP TECHNIQUES-STAGE AND SCREEN 3 Credit Hours**

(Slashed with THEA 51529) Advanced study of the process of designing and executing wigs and makeup with an emphasis on standards in the profession. Some prosthetic work required.

**Prerequisite:** Junior standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**THEA 41531 THEATRICAL RIGGING 3 Credit Hours**

(Slashed with THEA 51531) Course is designed to teach students the principles of stage rigging, knot tying and counterweight rigging systems used in theatrical and other live entertainment situations. Students examine the process involved in overhead applications for the theatre industry. Students learn the proper method to design and rig in theatrical environments through the explanation of tools, equipment, hardware and safety practices.

**Prerequisite:** Special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**THEA 41540 DRAPING FOR THE THEATRE I 3 Credit Hours**

(Slashed with THEA 51540) The course is designed to provide an introduction to the basics of draping and building flat patterning techniques from this knowledge as they apply to theatre.

**Prerequisite:** THEA 31526; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**THEA 41541 DRAPING FOR THE THEATRE II 3 Credit Hours**

(Slashed with THEA 51541) Course is designed to build upon skills developed in Draping for the Theatre I. Emphasis is placed on learning to drape over period undergarments such as corsetry, panniers, bustles, etc.

**Prerequisite:** THEA 31526; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**THEA 41560 THEATRE FABRICATION TECHNOLOGY 3 Credit Hours**

(Slashed with THEA 51560) History of technical production practice, materials theory and application in scenic construction technology.

**Prerequisite:** THEA 21521; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**THEA 41562 ADVANCED PROJECTION DESIGN 3 Credit Hours**

(Slashed with THEA 51562) Studies in projection design, digital media, and related technologies. Advanced software applications will be explored.

**Prerequisite:** THEA 11521; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**THEA 41620 HISTORY OF PERIOD STYLES FOR THEATRE DESIGNERS (WIC) 3 Credit Hours**

Students explore the way in which theatre designers approach period style in their own creative work.

**Prerequisite:** Theatre studies major; and junior standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Writing Intensive Course

**THEA 41621 PRESENTATION MEDIA 3 Credit Hours**

(Slashed with THEA 51621) Advanced process techniques in rendering, model building and design presentation for the scenic costume and lighting designer in traditional and new media.

**Prerequisite:** THEA 11722 and THEA 11732 and THEA 21521; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**THEA 41622 DESIGN STUDIO: SCENERY 3 Credit Hours**

(Slashed with THEA 51622) Advanced study in scenic design. Explores genres styles performance spaces, including practical considerations.

**Prerequisite:** THEA 21622; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**THEA 41624 HISTORY OF COSTUME AND TEXTILES FOR THEATRE 3 Credit Hours**

(Slashed with THEA 51624) Overview of the history of period costume and textiles in Western civilization from 1700 to 1970, a span of time commonly regarded as "popular time periods" in the practice and cannon of Western drama and the history of costume. Emphasis is placed on how theatre practitioners recreate the silhouettes of these periods in ways that make sense to a contemporary audience while using textiles available today. Students examine the social and cultural influences of clothing, recognition of historic silhouette and parallels in the artwork, literature, politics, economy and craft movements of each era of study.

**Prerequisite:** Special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**THEA 41702 MOVEMENT AND DANCE FOR ACTORS 3 Credit Hours**

(Repeatable for a maximum of 6 credit hours)(Slashed with THEA 51702) Designed to acquaint actors with theatre dance techniques and choreographic styles by concentrating on vernacular dances used throughout musical theatre. Course combines basic ballet, jazz and tap terminology.

**Prerequisite:** Special approval.

**Schedule Type:** Studio

**Contact Hours:** 4 other

**Grade Mode:** Standard Letter

**THEA 41703 STAGE COMBAT 3 Credit Hours**

(Repeatable for a maximum of 6 credit hours)(Slashed with THEA 51703) Introductory course focuses on creating the illusion of violence for the stage and screen. Basic instruction is given in unarmed and armed stage combat. Emphasis is on the development of technique; the process of the work; and the performance, with a focus on safety, accuracy and the fundamental techniques recognized by the Society of American Fight Directors (SAFD). Basic techniques are incorporated into short scenes to provide experience performing fights in production.

**Prerequisite:** Special approval.

**Schedule Type:** Laboratory, Lecture

**Contact Hours:** 2 lecture, 2 lab

**Grade Mode:** Standard Letter

**THEA 41726 THEATRE MANAGEMENT 3 Credit Hours**

Principles and practices of managing theatrical-producing organizations. Problems of finance, personnel, policy, program building and public relations. Production participation as assigned.

**Prerequisite:** Junior standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**THEA 41734 COSTUME PRODUCTION MANAGEMENT 3 Credit Hours**

(Slashed with THEA 51734) The course is designed to provide an introduction to managerial processes as they apply to costume production; the role of a shop manager, the roles of a wardrobe supervisor and wardrobe crew, and the running of a smooth technical rehearsal and production.

**Prerequisite:** Special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**THEA 41736 PRODUCTION AND STAGE MANAGEMENT 3 Credit Hours**

(Slashed with THEA 51736) Advanced investigation of the methodology used in stage managing professional theatrical productions and production management processes. Focus on production processes for various theatre, dance, opera and entertainment genres.

**Prerequisite:** Special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**THEA 41802 ENSEMBLE SINGING FOR MUSICAL THEATRE 1 Credit Hour**

(Repeatable for a maximum of 6 credit hours)(Slashed with THEA 51802) The study and performance of diverse styles specific to the musical theatre canon for mixed voices.

**Prerequisite:** Special approval.

**Schedule Type:** Studio

**Contact Hours:** 2 other

**Grade Mode:** Standard Letter

**THEA 41808 ACTING STYLES I: SHAKESPEARE 3 Credit Hours**  
(Slashed with THEA 51808) The application of acting, movement, and voice and speech techniques to sonnets, monologues, soliloquies and scenes from Shakespeare.

**Prerequisite:** Special approval.

**Schedule Type:** Studio

**Contact Hours:** 4 other

**Grade Mode:** Standard Letter

**THEA 41900 CAPSTONE PROJECT (ELR) 1-3 Credit Hours**

The capstone project represents a culminating event for the student. Capstone projects can be undertaken in the junior or senior year and are identified in consultation with a faculty advisor. Honor students may combine the capstone project with an Honors thesis.

**Prerequisite:** Junior standing; and special approval.

**Schedule Type:** Practical Experience, Senior Project/Honors Thesis

**Contact Hours:** 1-3 other

**Grade Mode:** Satisfactory/Unsatisfactory

**Attributes:** Experiential Learning Requirement

**THEA 41992 THEATRE PRODUCTION INTERNSHIP (ELR) 1-6 Credit Hours**

(Repeatable for a maximum of 12 credit hours) Intensive advanced training in practical aspects of production. Periodic seminars, laboratory sessions and performance in a theatre company.

**Prerequisite:** Junior standing; and special approval.

**Schedule Type:** Lecture, Practical Experience

**Contact Hours:** 1-6 lecture

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**Attributes:** Experiential Learning Requirement

**THEA 42092 PRACTICUM II: DESIGN AND TECHNOLOGY (ELR) 3 Credit Hours**

(Repeatable for credit) Advanced practical experience in theatre production under faculty supervision. Available for upper division students only. Required of all theatre majors.

**Prerequisite:** Juniors or senior only; and special approval.

**Schedule Type:** Practical Experience

**Contact Hours:** 3 lecture

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**Attributes:** Experiential Learning Requirement

**THEA 42101 DYE TECHNIQUES AND FABRIC MODIFICATION 3 Credit Hours**

(Slashed with THEA 52101) This course is designed to enable the artisan to identify fiber content and determine appropriate mediums for fabric dyeing. The course explores various techniques such as shabori, stamping, rubbing, and surface lifting in order to create special effects on fabrics. A collection of dye fabric samples and information will be created so student may use as a reference book.

**Prerequisite:** Junior standing; and special approval.

**Schedule Type:** Laboratory, Lecture

**Contact Hours:** 1 lecture, 4 lab

**Grade Mode:** Standard Letter

**THEA 42150 3D CHARACTERS: FOAM FABRICATION AND FIGURE FINISHING TECHNIQUES 3 Credit Hours**

(Slashed with THEA 52150) This course provides knowledge and application of the different types of plastics/foams used for 3D character building. This course is designed to enable the artisan to work with a range of materials when building atypical pieces for costumes or props.

**Prerequisite:** Junior standing; and special approval.

**Schedule Type:** Laboratory, Lecture

**Contact Hours:** 1 lecture, 4 lab

**Grade Mode:** Standard Letter

**THEA 42192 PRACTICUM II: PERFORMANCE (ELR) 3 Credit Hours**  
(Repeatable for credit) Advanced practical experience in theatre performance under faculty supervision. Available for upper division students only.

**Prerequisite:** Junior or senior standing; and special approval.

**Schedule Type:** Practical Experience

**Contact Hours:** 3 other

**Grade Mode:** Satisfactory/Unsatisfactory

**Attributes:** Experiential Learning Requirement

**THEA 42292 PRACTICUM II: THEATRE MANAGEMENT (ELR) 3 Credit Hours**

(Repeatable for a maximum of 12 credit hours) Advanced practical experience in theatre management under faculty/staff supervision. Available for upper division students only.

**Prerequisite:** Special approval.

**Schedule Type:** Practical Experience

**Contact Hours:** 3 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**Attributes:** Experiential Learning Requirement

**THEA 43092 BACHELOR OF FINE ARTS SENIOR PRACTICUM: DESIGN AND TECHNOLOGY (ELR) 2 Credit Hours**

(Repeatable for credit) Practical experience at the senior level in theatre and dance production.

**Prerequisite:** Special approval.

**Schedule Type:** Practical Experience

**Contact Hours:** 6 other

**Grade Mode:** Satisfactory/Unsatisfactory

**Attributes:** Experiential Learning Requirement

**THEA 50091 VARIABLE TOPIC SEMINAR: DEVISING THEATRE 3 Credit Hours**

A devised theatre event is work that has emerged and been generated by a group of people working in collaboration. Devising Theatre explores the processes of creating original performances defined and determined by its makers. Process and product originate from stimuli other than traditional play scripts. Students learn specialist techniques by developing solo and group performance pieces. Alternative modes of making theatre performances are considered.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Seminar

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**THEA 51010 THEATRE AND SOCIAL CHANGE 3 Credit Hours**

(Slashed with THEA 41010) This course interweaves the history, theory, practice and play text development in the field of theatre and social change.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**THEA 51026 PLAYWRITING 3 Credit Hours**

(Repeatable once for credit) Principles underlying playwriting for the contemporary theatre; analysis of short play form.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**THEA 51027 ADVANCED PLAYWRITING 3 Credit Hours**

(Repeatable once for credit)(Slashed with THEA 41027) Application of principles of playwriting to the longer play and to variations from traditional realism; play analysis and composition.

**Prerequisite:** THEA 51026; and graduate standing; and special approval of instructor.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**THEA 51095 SPECIAL TOPICS 1-3 Credit Hours**

(Repeatable for credit) Offered irregularly when unusual resources permit a topic.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 1-3 lecture

**Grade Mode:** Standard Letter

**THEA 51113 THEATRE IN A MULTICULTURAL AMERICA 3 Credit Hours**

A study of theatre and drama in the Native American, Hispanic American, African-American, and Asian American communities in the United States from 1980 to the present.

**Prerequisite:** Graduate standing; and special approval of instructor.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**THEA 51115 LGBTQ THEATRE 3 Credit Hours**

Studies of various theatrical representations of Lesbian, Gay, Bisexual, Transgender and Queer people as seen through the frameworks of history, gender theory, identity, politics, psychology, law, and justice.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**THEA 51130 THEATRE AND DRAMA IN AMERICA 3 Credit Hours**

The history of theatre and drama in America from their beginnings to the present.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**THEA 51191 VARIABLE CONTENT SEMINAR: THEATRE HISTORY, LITERATURE AND THEORY 3 Credit Hours**

(Repeatable for credit) Seminar focuses on selected topics in these areas, for example performance art, performance theory or theatre in a multicultural society.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Seminar

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**THEA 51301 ACTING FOR THE CAMERA I 3 Credit Hours**

An introduction to the specific techniques used in film acting. The course provides students with the necessary tools to make the transition from stage acting to camera acting.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**THEA 51302 ACTING FOR THE CAMERA II 3 Credit Hours**

Further development on the specific techniques used in film acting as applied to the Graduate Actor. The course continues to assist in making the transition from stage acting to camera acting.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**THEA 51303 ACTING I FOUNDATIONS/STANISLAVSKI AND MICHAEL CHEKHOV 3 Credit Hours**

The Stanislavski and Michael Chekhov Techniques: A thorough exploration of Stanislavski's Method of Psycho-Physical Action, and the Michael Chekhov technique including atmosphere, psychological gesture, and qualities of movement.

**Prerequisite:** Graduate standing; and special approval of instructor.

**Schedule Type:** Studio

**Contact Hours:** 4 other

**Grade Mode:** Standard Letter

**THEA 51304 ACTING II: SCENE STUDY-MODERN AMERICAN REALISM 3 Credit Hours**

The application of the Stanislavski and Michael Chekhov Techniques to in-depth scene study using the plays of Odets, Miller, Williams, Shanley and others.

**Prerequisite:** Graduate standing; and special approval of instructor.

**Schedule Type:** Studio

**Contact Hours:** 4 other

**Grade Mode:** Standard Letter

**THEA 51305 PROFESSIONAL ASPECTS: PERFORMANCE 3 Credit Hours**

(Slashed with THEA 41305) A study of the practical demands and requirements of a professional acting career with particular emphasis on audition skills. Also covered pictures and resumes, making rounds, professional unions, casting directors, agents and managers, the job market and career prospects.

**Prerequisite:** Graduate standing; and special approval of instructor.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**THEA 51308 MUSICAL THEATRE AUDITION 2 Credit Hours**

(Repeatable for a maximum of 4 credit hours) Explore the various genres and styles of American musical theatre songs with specific emphasis on finding practical audition repertoire for each student. Performance and research will be the primary activities in the class.

**Prerequisite:** Graduate standing; and special approval of instructor.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**THEA 51401 ADVANCED DIRECTING 3 Credit Hours**

Advanced work in directing for the theatre. Topics include director as creative interpretative artist, the director and the actor. Students direct individual projects.

**Prerequisite:** Graduate standing; and special approval of instructor.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter



**THEA 51420 THEATRICAL DRAFTING II 3 Credit Hours**

(Slashed with THEA 41420) Advanced 2D and 3D drafting techniques for technical directors and theatre designers. Representation of scenery through drafting using current AutoCAD software.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**THEA 51430 ADVANCED CONSTRUCTION THEORY 3 Credit Hours**

(Slashed with THEA 41430) The theory and practice of structural and mechanical design for theatre production. Related issues in resource management for the professional shop, including reliably predicting the performance of untraditional, unusual or unfamiliar structures and use of mathematical models, formulas, and representative diagrams. Graduate Students will cover steel construction, and cables.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**THEA 51440 SHOP MANAGEMENT 3 Credit Hours**

(Slashed with THEA 41440) Study of resource management, both human and non-human, for professional and academic shops. Topics include scheduling, budgeting, health and safety, interactions with other theatre workers and leadership development.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**THEA 51499 MUSICAL THEATRE SHOWCASE 2 Credit Hours**

(Repeatable for credit) (Slashed with THEA 41499) Development, promotion and presentation of a Musical Theatre showcase for industry casting personnel in New York City. Audition required prior to registration for this course.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Master's Project

**Contact Hours:** 2 other

**Grade Mode:** Standard Letter

**THEA 51521 ADVANCED LIGHTING TECHNOLOGY I 3 Credit Hours**

Advanced study of the technologies used in lighting design; conventional and intelligent fixtures, electricity, projection techniques and special effects.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**THEA 51522 DESIGN STUDIO: LIGHTING 3 Credit Hours**

Advanced study of lighting design, emphasizing artistic style and concept through a variety of design problems.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**THEA 51523 SOUND DESIGN AND TECHNOLOGY I 3 Credit Hours**

Sound design for the theatre, sound production and sound reinforcement techniques. Introduction to electronic equipment, mixing consoles, amplifiers, speakers.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**THEA 51524 DESIGN STUDIO: COSTUME 3 Credit Hours**

Advanced study in costume design. Genres, styles, in the context of performance spaces with an emphasis on research, practical considerations of costume production and communication between designer/shop personnel and designer/ director.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**THEA 51525 PROPS AND CRAFTS 3 Credit Hours**

Examination of the processes related to the creation and procurement of scenic and costume props.

**Prerequisite:** Graduate standing; and special approval of instructor.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**THEA 51526 ADVANCED LIGHTING TECHNOLOGY II 3 Credit Hours**

(Slashed with THEA 41526) Course focuses both on the practice of intelligent lighting programming and the technology of intelligent lighting fixtures.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**THEA 51527 SOUND AND DESIGN TECHNOLOGY II 3 Credit Hours**

(Slashed with THEA 41527) Studies in sound design, sound production and reinforcement for live performance. Advanced software applications will be explored.

**Prerequisite:** THEA 51523; and graduate standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**THEA 51528 THEATRE SOUND REINFORCEMENT 3 Credit Hours**

Studies in the theories and practice of audio mixing in support of live vocal and musical performance. Topics include wired and wireless microphones and real time digital processing of audio. rerequisite: Graduate standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**THEA 51529 ADVANCED WIG AND MAKEUP TECHNIQUES-STAGE AND SCREEN 3 Credit Hours**

Advanced study of the process of designing and executing wigs and makeup with an emphasis on standards in the profession. Some prosthetic work required.

**Prerequisite:** Graduate standing; and special approval of instructor.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter



**THEA 51531 THEATRICAL RIGGING 3 Credit Hours**

(Slashed with THEA 41531) Course is designed to teach students the principles of stage rigging, knot tying and counterweight rigging systems used in theatrical and other live entertainment situations. Students examine the process involved in overhead applications for the theatre industry. Students learn the proper method to design and rig in theatrical environments through the explanation of tools, equipment, hardware and safety practices.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**THEA 51540 DRAPING FOR THE THEATRE I 3 Credit Hours**

(Slashed with THEA 41540) The course is designed to provide an introduction to the basics of draping and building flat patterning techniques from this knowledge as they apply to theatre. More in-depth content for this graduate level course.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**THEA 51541 DRAPING FOR THE THEATRE II 3 Credit Hours**

(Slashed with THEA 41541) Course is designed to build upon skills developed in Draping for the Theatre I. Emphasis is placed on learning to drape over period undergarments such as corsetry, panniers, bustles, etc.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**THEA 51560 THEATRE FABRICATION TECHNOLOGY 3 Credit Hours**

History of technical production practice, materials theory and application in scenic construction technology.

**Prerequisite:** Graduate standing; and special approval of instructor.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**THEA 51562 ADVANCED PROJECTION DESIGN 3 Credit Hours**

(Slashed with THEA 41562) Studies in projection design, digital media, and related technologies. Advanced software applications will be explored.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**THEA 51621 PRESENTATION MEDIA 3 Credit Hours**

Advanced process techniques in rendering, model building and design presentation for the scenic costume and lighting designer in traditional and new media.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**THEA 51622 DESIGN STUDIO:SCENERY 3 Credit Hours**

Advanced study in scenic design. Explores genres, styles, performance spaces, including practical considerations.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**THEA 51624 HISTORY OF COSTUME AND TEXTILES FOR THEATRE 3 Credit Hours**

(Slashed with THEA 41624) Overview of the history of period costume and textiles in Western civilization from 1700 to 1970, a span of time commonly regarded as "popular time periods" in the practice and cannon of Western drama and the history of costume. Emphasis is placed on how theatre practitioners recreate the silhouettes of these periods in ways that make sense to a contemporary audience while using textiles available today. Students examine the social and cultural influences of clothing, recognition of historic silhouette and parallels in the artwork, literature, politics, economy and craft movements of each era of study.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**THEA 51701 MOVEMENT, FORM AND SPACE I-THE ACTOR'S PHYSICAL INSTRUMENT 3 Credit Hours**

Development of technical skills emphasizing the physical components of expressive action through integration of breath, voice and body conditioning.

**Prerequisite:** Special approval.

**Schedule Type:** Studio

**Contact Hours:** 4 other

**Grade Mode:** Standard Letter

**THEA 51702 MOVEMENT AND DANCE FOR ACTORS 3 Credit Hours**

(Repeatable for a maximum of 6 credit hours) Designed to acquaint actors with theatre dance techniques and choreographic styles by concentrating on vernacular dances used throughout musical theatre. Course combines basic ballet, jazz, and tap terminology.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Studio

**Contact Hours:** 4 other

**Grade Mode:** Standard Letter

**THEA 51703 STAGE COMBAT 3 Credit Hours**

(Repeatable for a maximum of 6 credit hours) (Slashed with THEA 41703) Introductory course focuses on creating the illusion of violence for the stage and screen. Basic instruction is given in unarmed and armed stage combat. Emphasis is on the development of technique; the process of the work; and the performance, with a focus on safety, accuracy and the fundamental techniques recognized by the Society of American Fight Directors (SAFD). Basic techniques are incorporated into short scenes to provide experience performing fights in production.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Laboratory, Lecture

**Contact Hours:** 2 lecture, 2 lab

**Grade Mode:** Standard Letter

**THEA 51734 COSTUME PRODUCTION MANAGEMENT 3 Credit Hours**

(Slashed with THEA 41734) The course is designed to provide an introduction to managerial processes as they apply to costumes, the role of a shop manager, the role of a wardrobe supervisor and the wardrobe crew, the running of a smooth technical rehearsal and production.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**THEA 51736 PRODUCTION AND STAGE MANAGEMENT 3 Credit Hours**

Advanced investigation of the methodology used in stage managing professional theatrical productions and production management processes. Focus on production processes for various theatre, dance, opera and entertainment genres.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**THEA 51802 ENSEMBLE SINGING FOR MUSICAL THEATRE 1 Credit Hour**

(Repeatable 6 times for credit) The study and performance of diverse styles specific to the musical theatre canon for mixed voices.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Studio

**Contact Hours:** 2 other

**Grade Mode:** Standard Letter

**THEA 51803 VOICE AND SPEECH I 3 Credit Hours**

Practical study and application of voice and speech production for the actor into various styles of verse and prose, including heightened language and text.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Laboratory, Lecture, Combined Lecture and Lab

**Contact Hours:** 2 lecture, 2 lab

**Grade Mode:** Standard Letter

**THEA 51808 ACTING STYLES I: SHAKESPEARE 3 Credit Hours**

The application of acting, movement, and voice and speech techniques to sonnets, monologues, soliloquies, and scenes from Shakespeare.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Studio

**Contact Hours:** 4 other

**Grade Mode:** Standard Letter

**THEA 52101 DYE TECHNIQUES AND FABRIC MODIFICATION 3 Credit Hours**

(Slashed with THEA 42101) This course is designed to enable the artisan to identify fiber content and determine appropriate mediums for fabric dyeing. The course explores various techniques such as shabori, stamping, rubbing, and surface lifting in order to create special effects on fabrics. A collection of dye fabric samples and information will be created so student may use as a reference book.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Laboratory, Lecture

**Contact Hours:** 1 lecture, 4 lab

**Grade Mode:** Standard Letter

**THEA 52150 THREE-DIMENSIONAL CHARACTERS: FOAM FABRICATION AND FIGURE FINISHING TECHNIQUES 3 Credit Hours**

(Slashed with THEA 42150) This course provides knowledge and application of the different types of plastics/foams used for 3D character building. This course is designed to enable the artisan to work with a range of materials when building atypical pieces for costumes or props.

**Prerequisite:** Graduate Standing and special approval.

**Schedule Type:** Laboratory, Lecture

**Contact Hours:** 1 lecture, 4 lab

**Grade Mode:** Standard Letter

**THEA 60196 INDIVIDUAL INVESTIGATION: HISTORIC TEXTILES 3 Credit Hours**

(Repeatable for credit) Identification and analysis of textile fabric as the reflection of culture.

**Prerequisite:** Graduate standing.

**Schedule Type:** Individual Investigation

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**THEA 60199 M.F.A. THESIS PROJECT 3 Credit Hours**

(Repeatable for credit) Students must register for course during the semester of their M.F.A. thesis project.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Masters Thesis

**Contact Hours:** 3 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**THEA 60992 PROFESSIONAL THEATRE INTERNSHIP I 3,6 Credit Hours**

(Repeatable once) Intensive advanced training in practical aspects of production. Periodic seminars, laboratory sessions and performance in the Porthouse Theatre Company.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Practical Experience

**Contact Hours:** 3-6 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**THEA 61000 INTRODUCTION TO GRADUATE STUDY IN THEATRE 3 Credit Hours**

Orientation to bibliography and research in the field of theatre with emphasis on application of research to performance.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**THEA 61094 COLLEGE TEACHING IN THEATRE 3 Credit Hours**

(Repeatable for credit) Strategies for teaching, issues on implications of pedagogical practice and responsibilities of academic leadership.

**Prerequisite:** Graduate standing; and special approval of instructor.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**THEA 61095 SPECIAL TOPICS 1-3 Credit Hours**

(Repeatable for credit) Offered irregularly when unusual resources permit a topic different from existing courses. Topic are announced when scheduled.

**Prerequisite:** Graduate standing; and special approval of instructor.

**Schedule Type:** Lecture

**Contact Hours:** 1-3 lecture

**Grade Mode:** Standard Letter

**THEA 61096 INDIVIDUAL INVESTIGATION: THEATRE AND DRAMA 1-4 Credit Hours**

(Repeatable for a maximum of 6 credit hours) Independent study of an area or problem approved by divisional graduate coordinator in consultation with project director.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Individual Investigation

**Contact Hours:** 1-4 other

**Grade Mode:** Standard Letter-IP

**THEA 61098 RESEARCH 1-15 Credit Hours**

(Repeatable for credit) Research or individual investigation for master's-level graduate students. Credits may be applied toward meeting degree requirements with school approval.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Research

**Contact Hours:** 1-15 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**THEA 61201 SOFTWARE APPLICATIONS 3 Credit Hours**

A survey of current software used in theatre production with an emphasis on applications for management, design and technical direction.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**THEA 61303 ACTING III SCENE STUDY: NATURALISM AND ABSURD 3 Credit Hours**

In-depth scene study in the genres of Naturalism and Absurd theatre. Exploration of the works of Chekhov, Strindberg, Beckett and others.

**Prerequisite:** Graduate standing; and special approval of instructor.

**Schedule Type:** Studio

**Contact Hours:** 4 other

**Grade Mode:** Standard Letter

**THEA 61305 ACTING STYLES II: GREEK AND COMEDY OF MANNERS 3 Credit Hours**

Application of acting, movement and speech techniques to these specific genres. Focus on style and physicalization using Greek and English Restoration playwrights as well as Molière, Wilde and others.

**Prerequisite:** Graduate standing; and special approval of instructor.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**THEA 61306 PROFESSIONAL ASPECTS: DESIGN AND TECHNOLOGY 3 Credit Hours**

A study of the practical demands and requirements of a professional career in design and technology, including portfolio development, resumes, unions, job market, financial matters and career prospects.

Emphasis is placed on developing skills and materials for finding employment and the use of marketing communication techniques.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**THEA 61309 MASTER OF FINE ARTS COMPREHENSIVE PROJECT IN ACTING 1-3 Credit Hours**

Intensive work in the development of the practical aspects of production; includes performance or exhibition of work, documentation of that work in a format appropriate for area and project, and an exit interview.

**Prerequisite:** THEA 61000; and graduate standing; and special approval of instructor.

**Schedule Type:** Laboratory

**Contact Hours:** 3-9 lab

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**THEA 61310 MASTER OF FINE ARTS DESIGN AND TECHNOLOGY CULMINATING PROJECT 3 Credit Hours**

An intensive experience in the development of design and/or technical aspects of a theatrical production; the scope of work may include but not necessarily be limited to research, drawings and drafting, renderings and associated digital image, video or audio files. Documentation (appropriate for the area and project) is presented at an exit interview.

**Prerequisite:** THEA 61000; and graduate standing; and special approval of instructor.

**Schedule Type:** Individual Investigation, Masters Thesis, Studio

**Contact Hours:** 3 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**THEA 61420 COLLABORATION IN PRODUCTION STUDIO 1 Credit Hour**

Knowledge acquisition and the development of skills to create resolve and present well-reasoned theatrical design. Students will employ the design and production process, observation of deadlines, and collaboration with other designers and technical directors, as a structure to elevate production.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Seminar

**Contact Hours:** 1 lecture

**Grade Mode:** Standard Letter

**THEA 61525 MILLINERY AND 3-D CHARACTERS 3 Credit Hours**

Advanced studies of techniques of millinery construction and 3D character construction with an emphasis on current practice in the industry.

**Prerequisite:** Graduate standing; and special approval of instructor.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**THEA 61528 DESIGN PROCESS AND COLLABORATION 3 Credit Hours**

Introduction to the design process and collaboration in a theatrical production. Students have the opportunity to analyze best practices, strategies and the strengths and challenges of designers.

**Prerequisite:** THEA 61000; and graduate standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**THEA 61531 PERIOD STYLE FOR THEATRE DESIGNERS 3 Credit Hours**

An exploration of the relationship of period style, historical context and the designer's artistic choices in contemporary interpretations of period plays.

**Prerequisite:** Theatre studies major; and concentration in design/technology-costume design, design/technology-lighting design, design/technology-scene design or design/technology-technical direction; and graduate standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**THEA 61623 DIGITAL RENDERING THEATRE DESIGN 3 Credit Hours**  
Explores a variety of digital rendering methods for artistic 2D and 3D graphics visualization of theatrical design concepts.

**Prerequisite:** Theatre studies major; and concentration in design/technology-costume design, design/technology-lighting design, design/technology-scene design or design/technology-technical direction; and graduate standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**THEA 61701 MOVEMENT, FORM AND SPACE II-NEUTRAL AND CHARACTER MASK 3 Credit Hours**

Advanced skills and conditioning focusing on the physical and vocal qualities of characterization achieved through performance in masks.

**Prerequisite:** THEA 51701; and graduate standing; and special approval of instructor.

**Schedule Type:** Studio

**Contact Hours:** 4 other

**Grade Mode:** Standard Letter

**THEA 61703 MOVEMENT, FORM AND SPACE III 3 Credit Hours**

Advanced skills and conditioning focusing on the physical and vocal qualities of characterization achieved through period movement. This course allows actors to effectively perform movement and styles from specific historical periods and genres.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Seminar, Studio

**Contact Hours:** 2 lecture, 2 other

**Grade Mode:** Standard Letter

**THEA 61803 VOICE AND SPEECH II 3 Credit Hours**

Ongoing study and application of voice and speech technique into various styles of text, and the analysis and development of accents for performance and presentation.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Laboratory, Lecture, Combined Lecture and Lab

**Contact Hours:** 2 lecture, 2 lab

**Grade Mode:** Standard Letter

**THEA 61804 VOICE AND SPEECH III 3 Credit Hours**

Advanced study and application of voice and speech techniques, focusing on the extremes of vocal demands.

**Prerequisite:** THEA 51803; and graduate standing; and special approval.

**Schedule Type:** Laboratory, Lecture, Combined Lecture and Lab

**Contact Hours:** 2 lecture, 2 lab

**Grade Mode:** Standard Letter

**THEA 61806 SINGING FOR THE ACTOR 1 Credit Hour**

A comprehensive study of performance techniques and repertoire appropriate to the singing actor.

**Prerequisite:** THEA 51801; and graduate standing; and special approval of instructor.

**Schedule Type:** Studio

**Contact Hours:** 1 other

**Grade Mode:** Standard Letter

**THEA 61992 PROFESSIONAL THEATRE INTERNSHIP II 3,6 Credit Hours**

(Repeatable for credit) Intensive advanced training in practical aspects of production. Periodic seminars, laboratory sessions and performance in a professional theatre company.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Practical Experience

**Contact Hours:** 3 lecture

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**THEA 62092 PRACTICUM: DESIGN/TECHNOLOGY 3 Credit Hours**

(Repeatable for credit) Practical experience for the graduate student in theatre design and technology under faculty supervision.

**Prerequisite:** Graduate standing; and special approval of instructor.

**Schedule Type:** Practical Experience

**Contact Hours:** 3 lecture

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**THEA 62192 PRACTICUM: PERFORMANCE 3 Credit Hours**

(Repeatable for credit) (Cross-listed with KBT 62192) Practical experience for the graduate student in theatre performance under faculty supervision.

**Prerequisite:** Graduate standing; and special approval of instructor.

**Schedule Type:** Practical Experience

**Contact Hours:** 3 lecture

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**THEA 62292 PRACTICUM:THEATRE MANAGEMENT 3 Credit Hours**

(Repeatable for a maximum of 12 credit hours) Practical experience for the graduate student in theatre management under faculty/staff supervision.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Practical Experience

**Contact Hours:** 3 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**THEA 62392 PRACTICUM: PERORMANCE PEDAGOGY 1 Credit Hour**

(Repeatable for credit) Advanced practical experience in theatre performance pedagogy under faculty supervision.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Practical Experience

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**THEA 62892 THEATRE PRACTICUM 1 Credit Hour**

(Repeatable twice for credit) Practical experience for the graduate student in cocurricular theatre activities, under faculty supervision.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Practical Experience

**Contact Hours:** 1 lecture

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**THEA 62992 THEATRE PRODUCTION INTERNSHIP 1-6 Credit Hours**

(Repeatable for a maximum of 12 credit hours)(Slashed with THEA 72992) Intensive advanced training in practical aspects of production. Periodic seminars, laboratory sessions and performance in a theatre company or touring with Kent Theatre Ensemble.

**Prerequisite:** Graduate standing; and special approval of advisor.

**Schedule Type:** Practical Experience

**Contact Hours:** 1-6 lecture

**Grade Mode:** Satisfactory/Unsatisfactory-IP



**THEA 63001 SCENIC DESIGN I: FOUNDATIONS IN SINGLE SET SCENIC DESIGN 2 Credit Hours**

Introduction to the methodology and practice of professional scene design. Application of knowledge made through a series of design projects. Script Analysis, perspective rendering and model-making techniques will be emphasized for single set productions.

**Prerequisite:** Graduate standing in the School of Theatre and Dance; and special approval.

**Schedule Type:** Seminar

**Contact Hours:** 2 other

**Grade Mode:** Standard Letter

**THEA 63002 SCENIC DESIGN II: ADVANCED SINGLE SET SCENIC DESIGN 2 Credit Hours**

Inquiry to the methodology and practice of professional scene design. Application of knowledge will be through a series of complex design projects. Script analysis, drafting, perspective rendering and more advanced model-making techniques will be emphasized.

**Prerequisite:** Graduate standing in the School of Theatre and Dance; and special approval.

**Schedule Type:** Seminar

**Contact Hours:** 2 other

**Grade Mode:** Standard Letter

**THEA 63003 SCENIC DESIGN III: DESIGNING BEYOND DRAMA 2 Credit Hours**

An advanced approach to professional scene design as it applies to opera, musical theatre, and the entertainment industry. Advanced design communication techniques will be applied through a series of design projects. Textual analysis, conceptual unit/multi-set productions, storyboarding, and advanced visual communication/presentation techniques will be emphasized.

**Prerequisite:** Graduate standing in the School of Theatre and Dance; and special permission.

**Schedule Type:** Seminar

**Contact Hours:** 2 other

**Grade Mode:** Standard Letter

**THEA 63004 SCENIC DESIGN IV: ADVANCED MULTI-SETTING DESIGN 2 Credit Hours**

An advanced approach to professional scene design as it applies to opera, musical theatre, and the entertainment industry in non-traditional spaces. Advanced design communication techniques will be applied through a series of design projects. Analysis, conceptual unit/multi-set productions, storyboarding, and advanced visual communication/presentation techniques will be emphasized.

**Prerequisite:** Graduate standing in the School of Theatre and Dance; and special permission.

**Schedule Type:** Seminar

**Contact Hours:** 2 other

**Grade Mode:** Standard Letter

**THEA 63005 SCENIC DESIGN V: ENTERTAINMENT AND PRODUCTION DESIGN 2 Credit Hours**

An advanced approach to professional scene design as it applies to industrials, showrooms and the entertainment industry. Knowledge of techniques will be applied through a series of design projects, analysis, conceptual approaches, storyboarding, and advanced visual communication/presentation techniques. This course will focus on refinement of the theoretical and practical skills of the professional scenic designer.

**Prerequisite:** Graduate standing in the School of Theatre and Dance; and special approval.

**Schedule Type:** Seminar

**Contact Hours:** 2 other

**Grade Mode:** Standard Letter

**THEA 63006 SCENIC DESIGN VI: NON-TRADITIONAL AND SITE-SPECIFIC PERFORMANCES 2 Credit Hours**

An advanced approach to professional scene design as it applies to industrials and the entertainment industry. Site specific design communication techniques will be applied through a series of design projects. Analysis, conceptual approaches, storyboarding, and advanced visual communication/presentation techniques will be emphasized.

**Prerequisite:** Graduate standing in the School of Theatre and Dance; and special approval.

**Schedule Type:** Seminar

**Contact Hours:** 2 other

**Grade Mode:** Standard Letter

**THEA 63092 PRODUCTION COLLABORATION: SCENIC DESIGN 1-2 Credit Hours**

(Repeatable for credit) Practical preparation, design and production work as applied to Scenic design within the School of Theatre and Dance. This course will serve as both a time to cultivate management of resources and synthesize information in developing solutions to production-related issues in scene design. Repeatable to a maximum of 8 credits.

**Prerequisite:** Graduate standing in the School of Theatre and Dance; and special approval.

**Schedule Type:** Practical Experience

**Contact Hours:** 3-6 other

**Grade Mode:** Standard Letter

**THEA 63192 MENTORSHIP IN PERFORMANCE 3 Credit Hours**

(Repeatable for a total of 6 credit hours) Development of advanced skills and abilities to mentor student performers in aspects of the profession, including professional behavior, understanding of the business and the actor's creative process. Major work done while participating in rehearsal and performance of main stage productions or assisting in THEA 41305/ THEA 51305. Students may take the course alongside THEA 62192.

**Prerequisite:** Graduate standing; and special approval of instructor.

**Schedule Type:** Practical Experience

**Contact Hours:** 6 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**THEA 64001 THEATRE TECHNICAL DIRECTION I: FOUNDATIONS I 2 Credit Hours**

Investigation of publications in the field of technical theatre and their relevance to examining the technical manager as planner, artist, creative thinker positive leader and colleague.

**Prerequisite:** Graduate standing in the School of Theatre and Dance; and special approval.

**Schedule Type:** Seminar

**Contact Hours:** 2 other

**Grade Mode:** Standard Letter



**THEA 64002 THEATRE TECHNICAL DIRECTION II: FOUNDATIONS II  
2 Credit Hours**

Continued Investigation of publications in the field of technical theatre and their relevance to examining the technical manager as planner, artist, creative thinker positive leader and colleague.

**Prerequisite:** Graduate standing in the School of Theatre and Dance; and special approval.

**Schedule Type:** Seminar

**Contact Hours:** 2 other

**Grade Mode:** Standard Letter

**THEA 64003 THEATRE TECHNICAL DIRECTION III: TOURING  
PRODUCTIONS 2 Credit Hours**

Course covers the logistics of transporting a theatrical production, the concepts and needs of touring productions, and different construction techniques needed for disassembly and quick reassembly.

**Prerequisite:** Graduate standing in the School of Theatre and Dance; and special approval.

**Schedule Type:** Seminar

**Contact Hours:** 2 other

**Grade Mode:** Standard Letter

**THEA 64004 THEATRE TECHNICAL DIRECTION IV: EDUCATIONAL  
THEATRE 2 Credit Hours**

Examination of the roles of the technical director in academia, including the evolution of and current state of technical theatre education.

Course will explore the work and presentations of the USITT Education Commission.

**Prerequisite:** Graduate standing in the School of Theatre and Dance; and special approval.

**Schedule Type:** Seminar

**Contact Hours:** 2 other

**Grade Mode:** Standard Letter

**THEA 64005 THEATRE TECHNICAL DIRECTION V: MECHANICS AND  
AUTOMATION 2 Credit Hours**

Examination of the techniques and applications of automated scenery and stage mechanics.

**Prerequisite:** Graduate Standing in the School of Theatre & Dance and special permission.

**Schedule Type:** Seminar

**Contact Hours:** 2 other

**Grade Mode:** Standard Letter

**THEA 64006 THEATRE TECHNICAL DIRECTION VI: HEALTH AND  
SAFETY 2 Credit Hours**

Focus on the health & safety concerns of live performance, including the organizations OSHA, NFPS, ANSI, Red Cross, their protocols and their relation to theatre.

**Prerequisite:** Graduate standing in the School of Theatre and Dance; and special approval.

**Schedule Type:** Seminar

**Contact Hours:** 2 other

**Grade Mode:** Standard Letter

**THEA 64092 PRODUCTION COLLABORATION: TECHNICAL DIRECTION  
1-2 Credit Hours**

(Repeatable for credit) Practical preparation, design and production work as applied to technical direction within the School of Theatre and Dance. This course will serve as both a time to cultivate management of resources and synthesize information in developing solutions to production-related issues in technical direction. Repeatable to a maximum of 8 credits.

**Prerequisite:** Graduate standing in the School of Theatre and Dance.

**Schedule Type:** Practical Experience

**Contact Hours:** 3-6 other

**Grade Mode:** Standard Letter

**THEA 64192 MENTORSHIP AT PORTHOUSE 3 Credit Hours**

(Repeatable for a total of 6 credit hours) Development of advanced skills and abilities to mentor student performers in aspects of the profession, including professional behavior, understanding of the business and the actor's creative process. Major work done while participating in rehearsal of Porthouse Theatre productions. Students may take the course alongside THEA 62192.

**Prerequisite:** Graduate standing; and special approval of instructor.

**Schedule Type:** Practical Experience

**Contact Hours:** 6 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**THEA 65000 HISTORY, HISTORICISM, THEORY AND PRACTICE IN  
THEATRE AND DRAMA 3 Credit Hours**

Course covers the breadth of theatre history and historicism and application of theatre theory to practice by focusing on the six major stylistic periods: Greek and Roman, Medieval, Renaissance, Romanticism, Realism and Non Realism (symbolism, expressionism, surrealism, absurdism) and contemporary period (postmodernism, feminism and interculturalism, multiculturalism). Using lecture, scholarly articles, video viewing and practical writing projects, students learn about and practice each style, as well as apply the style to students' respective areas of graduate study (i.e. actor, director, designer).

**Prerequisite:** THEA 61000; and graduate standing; and special approval.

**Schedule Type:** Research, Seminar

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**THEA 65001 LIGHTING DESIGN I: DRAMA 2 Credit Hours**

Advanced exploration and development of artistic processes and method for lighting design in drama.

**Prerequisite:** Graduate standing in the School of Theatre and Dance; and special approval.

**Schedule Type:** Seminar

**Contact Hours:** 2 other

**Grade Mode:** Standard Letter

**THEA 65002 LIGHTING DESIGN II: MUSICAL THEATRE 2 Credit  
Hours**

Advanced exploration and development of artistic processes and methods for lighting design in musical theatre.

**Prerequisite:** Graduate standing in the School of Theatre and Dance; and special approval.

**Schedule Type:** Seminar

**Contact Hours:** 2 other

**Grade Mode:** Standard Letter

**THEA 65003 LIGHTING DESIGN III: DANCE AND OPERA 2 Credit Hours**

Advanced exploration and development of artistic processes and methods for lighting design in classical and contemporary dance and opera.

**Prerequisite:** Graduate standing in the School of Theatre and Dance; and special approval.

**Schedule Type:** Seminar

**Contact Hours:** 2 other

**Grade Mode:** Standard Letter

**THEA 65004 LIGHTING DESIGN IV: NON-TRADITIONAL PRODUCTIONS 2 Credit Hours**

Exploration and development of artistic processes and methods in lighting design for non-traditional works, including multidisciplinary and devised productions.

**Prerequisite:** Graduate standing in the School of Theatre and Dance; and special approval.

**Schedule Type:** Seminar

**Contact Hours:** 2 other

**Grade Mode:** Standard Letter

**THEA 65005 LIGHTING DESIGN V: ARCHITECTURAL AND INTERIOR LIGHTING 2 Credit Hours**

Exploration and development of artistic processes and methods in lighting design for architectural and commercial interiors.

**Prerequisite:** Graduate standing in the School of Theatre and Dance; and special approval.

**Schedule Type:** Seminar

**Contact Hours:** 2 other

**Grade Mode:** Standard Letter

**THEA 65006 LIGHTING DESIGN VI: NEW TECHNOLOGY 2 Credit Hours**

Exploration of innovative technology and technological tools and their application to lighting design. The course includes exploration of non-conventional, automated, projection and LED technologies.

**Prerequisite:** Graduate standing in the School of Theatre and Dance; and special approval.

**Schedule Type:** Seminar

**Contact Hours:** 2 other

**Grade Mode:** Standard Letter

**THEA 65092 PRODUCTION COLLABORATION: LIGHTING DESIGN 1-2 Credit Hours**

(Repeatable for credit) Practical preparation, design and production work as applied to lighting design within the School of Theatre and Dance. This course will serve as both a time to cultivate management of resources and synthesize information in developing solutions to production-related issues in lighting. Repeatable to a maximum of 8 credits.

**Prerequisite:** Graduate standing in the School of Theatre and Dance; and special approval.

**Schedule Type:** Practical Experience

**Contact Hours:** 3-6 other

**Grade Mode:** Standard Letter

**THEA 65192 TEACHING PRACTICUM 3 Credit Hours**

(Repeatable for a total of 6 credit hours) Application of strategies for teaching at the college level. Development of advanced skills in course preparation, classroom management and pedagogical practice. Major work done teaching or assisting with undergraduate classes.

**Prerequisite:** THEA 61094; and graduate standing.

**Schedule Type:** Practical Experience

**Contact Hours:** 6 other

**Grade Mode:** Satisfactory/Unsatisfactory

**THEA 66001 COSTUME DESIGN I: SCRIPT ANALYSIS 2 Credit Hours**

Exploration and development of different methods and artistic processes for costume design. By focusing on textual analysis, the costume student will be able to explore a wide variety of performance types.

**Prerequisite:** Graduate standing in the School of Theatre and Dance; and special approval.

**Schedule Type:** Seminar

**Contact Hours:** 2 other

**Grade Mode:** Standard Letter

**THEA 66002 COSTUME DESIGN II: PERFORMANCE GENRES 2 Credit Hours**

Exploration and development of different methods and artistic processes for costume design in diverse genres, including dance, opera, and circus.

**Prerequisite:** Graduate standing in the School of Theatre and Dance; and special approval.

**Schedule Type:** Seminar

**Contact Hours:** 2 other

**Grade Mode:** Standard Letter

**THEA 66003 COSTUME DESIGN III: THEATRICAL STYLES 2 Credit Hours**

Advanced exploration of costume designs which incorporate both historical and thematic stylized conventions.

**Prerequisite:** Graduate standing in the School of Theatre and Dance; and special approval.

**Schedule Type:** Seminar

**Contact Hours:** 2 other

**Grade Mode:** Standard Letter

**THEA 66004 COSTUME DESIGN IV: ADVANCED RENDERING 2 Credit Hours**

Development of advanced figure drawing study and rendering techniques in order to strengthen the student's skill and facility in producing costume renderings.

**Prerequisite:** Graduate standing in the School of Theatre and Dance; and special approval.

**Schedule Type:** Seminar

**Contact Hours:** 2 other

**Grade Mode:** Standard Letter

**THEA 66005 COSTUME DESIGN V: RESEARCH METHODS 2 Credit Hours**

Intensive focus on the variety of research methodologies and their application to both contemporary and period costume designs.

**Prerequisite:** Graduate standing in the School of Theatre and Dance; and special approval.

**Schedule Type:** Seminar

**Contact Hours:** 2 other

**Grade Mode:** Standard Letter

**THEA 66006 COSTUME DESIGN VI: TEXTILES 2 Credit Hours**

An understanding of the appropriate application of many common and specialty fabrics used in costume design.

**Prerequisite:** Graduate standing in the School of Theatre and Dance; and special approval.

**Schedule Type:** Seminar

**Contact Hours:** 2 other

**Grade Mode:** Standard Letter

**THEA 66092 PRODUCTION COLLABORATION: COSTUME DESIGN/ TECHNOLOGY 1-2 Credit Hours**

(Repeatable for credit) Practical preparation, design and production work as applied to Costuming within the School of Theatre and Dance. This course will serve as both a time to cultivate management of resources and synthesize information in developing solutions to production-related issues in costumes. Repeatable to a maximum of 8 credits.

**Prerequisite:** Graduate standing in the School of Theatre and Dance; and special approval.

**Schedule Type:** Practical Experience

**Contact Hours:** 3-6 other

**Grade Mode:** Standard Letter

**THEA 72992 THEATRE PRODUCTION INTERNSHIP 1-6 Credit Hours**

(Repeatable for a total of 12 credit hours)(Slashed with THEA 62992) Intensive advanced training in practical aspects of production. Periodic seminars, laboratory sessions and performance in a theatre company or touring with Kent Theatre Ensemble.

**Prerequisite:** Doctoral standing and special approval of advisor.

**Schedule Type:** Lecture, Practical Experience

**Contact Hours:** 1-6 lecture

**Grade Mode:** Satisfactory/Unsatisfactory-IP

## Arts Entrepreneurship - Minor

### College of the Arts

College of the Arts

111 Cartwright Hall

Kent Campus

330-672-2760

collegeofthearts@kent.edu

www.kent.edu/artscollege

## Description

Arts Entrepreneurship is a mindset, a creative way of looking at opportunities, a passion, doing what one loves, a challenge, persistence and operating a business whether one owns it or not. The Arts Entrepreneurship interdisciplinary minor exposes students to that mindset and develops skills that can be applied to creating a new arts enterprise or developing opportunities for the individual artist.

### Fully Offered At:

- Kent Campus

Admission to a minor is open to students declared in a bachelor's degree, the A.A.B. or A.A.S. degree or the A.T.S. degree (not Individualized Program major). Students declared only in the A.A. or A.S. degree or the A.T.S. degree in Individualized Program may not declare a minor. Students may not pursue a minor and a major in the same discipline.

## Minor Requirements

Code	Title	Credit Hours
<b>Minor Requirements</b>		
ENTR 27056	INTRODUCTION TO ENTREPRENEURSHIP	3
ENTR 37040	ENTREPRENEURIAL TOOLS	3
CA 20003	SPEAKER SERIES IN ARTS ENTREPRENEURSHIP	1
Minor Elective, choose from the following:		8

ART 40007	ARTS ENGAGEMENT: INTERPRETING FOR A COMMUNITY (WIC)
ART 40008	PROFESSIONAL PRACTICES IN VISUAL ARTS (WIC)
ARTE 41525	ART EDUCATION:INQUIRY INTO PROFESSIONAL PRACTICE
CA 31300	MUSIC CAREER DEVELOPMENT AND ENTREPRENEURSHIP
CA 40495	SPECIAL TOPICS IN THE COLLEGE OF THE ARTS
DAN 47060	PROFESSIONAL ASPECTS IN DANCE
ENTR 37045	SALES IN THE ENTREPRENEURIAL VENTURE
ENTR 37070	SOCIAL ENTREPRENEURSHIP
ENTR 37075	ENTREPRENEURIAL MARKETING
ENTR 37065	ENTREPRENEURIAL FINANCE
ENTR 47070	NEW ENTERPRISE FORMATION
FDM 35280	FASHION ENTREPRENEURSHIP
THEA 41305	PROFESSIONAL ASPECTS: PERFORMANCE
THEA 41306	PROFESSIONAL ASPECTS: DESIGN AND TECHNOLOGY
THEA 41726	THEATRE MANAGEMENT

Minimum Total Credit Hours:

15

## Graduation Requirements

Minimum Minor GPA	Minimum Overall GPA
2.250	2.000

- Minimum 6 credit hours in the minor must be upper-division coursework (30000 and 40000 level).
- Minimum 6 credit hours in the minor must be outside of the course requirements for any major or other minor the student is pursuing.
- Minimum 50 percent of the total credit hours for the minor must be taken at Kent State (in residence).

## School of Art

### College of the Arts

School of Art

241 Center for the Visual Arts

Kent Campus

330-672-2192

artinfo@kent.edu

www.kent.edu/art

## Undergraduate Programs

- Art Education - B.A.
- Art History - B.A.
- Studio Art - B.A.
- Studio Art - B.F.A.

## Minors

- Accessories
- Art History
- Ceramics
- Drawing
- Glass

- Jewelry, Metals and Enameling
- Painting
- Print Media and Photography
- Sculpture and Expanded Media
- Textiles

## Graduate Programs

- Art Education - M.A.
- Art History - M.A.
- Studio Art - M.A.
- Studio Art - M.F.A.

## School of Art Faculty

- Bukowski, Marie D. (2017), Professor
- Buntin, Phillip D. (2006), Associate Professor, M.F.A., University of Connecticut, 2002
- Chishty, Mahwish (2016), Assistant Professor, M.F.A., University of Maryland, 2008
- Commito, Gianna E. (2005), Professor, M.F.A., University of Iowa, 2003
- Dorff, Juliann B. (1999), Senior Lecturer, M.A., Kent State University, 1998
- Ebanks, Davin (2005), Assistant Professor, M.F.A., Kent State University, 2010
- Farnsworth, Isabel (1997), Associate Professor, M.F.A., Stanford University, 1995
- Garcia, Janice L. (2019), Assistant Professor, M.F.A., University of Wisconsin, Madison, 2018
- Gasper-Hulvat, Marie (2013), Assistant Professor, Ph.D., Bryn Mawr College, 2012
- Hoepfner-Poling, Linda A. (1986), Associate Professor, Ph.D., Kent State University, 2005
- Johnson, Peter C. (2015), Associate Professor, M.F.A., Penn State University, 2003
- Kan, Koon-Hwee (2003), Associate Professor, Ed.D., University of Illinois-Urbana, 2004
- Kessler, Eli (2019)
- Kuebeck, Andrew (2017), Assistant Professor, M.F.A., Indiana University, Bloomington, 2011
- Lessman-Moss, Janice (1981), Professor, M.F.A., University of Michigan, Ann Arbor, 1981
- Loderstedt, Michael J. (1982), Professor, M.F.A., Kent State University, 1985
- McMahon, Taryn (2013), Assistant Professor, M.A., University of Iowa, 2010
- McWhorter, Jack E. (1989), Professor, M.A., Kent State University, 1983
- Medicus, Gustav F. (1989), Associate Professor, Ph.D., Indiana University, Bloomington, 1992
- Myers, Andrea (2015), Assistant Professor, M.F.A., School of Art Institute of Chicago, 2006
- Polo, Darice M. (2004), Associate Professor, M.F.A., University at Albany, SUNY, 1999
- Powell, Shawn K. (2018), Assistant Professor, M.F.A., City University of NY, Hunter College, 2009

- Reischuck, Albert W. (1990), Senior Lecturer, M.A., Kent State University, 1991
- Roll, Melanie R. (2001), Lecturer, M.A., Kent State University, 2014
- Schatz, Mark K. (2010), Assistant Professor, M.F.A., University of Texas, Austin, 2005
- Summers, Michelle M. (2019), Assistant Professor
- Underwood, Joseph L. (2017), Assistant Professor
- Vande Zande, Robin S. (2001), Professor
- Warner, John-Michael H. (2015), Assistant Professor, Ph.D., University of Arizona, 2015
- Yi, Hye-Shim (2019), Assistant Professor

## Art (ART)

### ART 10022 2D COMPOSITION 3 Credit Hours

This course is a basic introduction to flat pictorial composition. Students will explore the basic principles of design and the application of elements (line, shape, value, texture, and color) to the two-dimensional surface. Students will learn to work with traditional materials as well as new technology. In addition to developing technical proficiency with a variety of materials and tools, emphasis will be placed on visual literacy and critical thinking skills throughout this course. All work (preliminary and final) must be retained for the duration of the semester and beyond as required.

**Prerequisite:** None.

**Schedule Type:** Studio

**Contact Hours:** 6 other

**Grade Mode:** Standard Letter

### ART 10023 3D COMPOSITION 3 Credit Hours

Course serves as the introductory three-dimensional experience, focusing on fundamental principles, elements and strategies of visual organization. Focus is on creative problem-solving using a variety of approaches and materials, and favors non-equipment intensive assignments. Students develop critical thinking and practical skills relating to three-dimensional form and space. This foundation-level course prepares students for subsequent study within all the visual arts.

**Prerequisite:** None.

**Schedule Type:** Studio

**Contact Hours:** 6 other

**Grade Mode:** Standard Letter

### ART 10024 DIGITAL MEDIA 3 Credit Hours

Introduces concepts, tools, software and guided experiences necessary for creative integration of digital skills and concepts into art practices and art research.

**Prerequisite:** Major in Art Education or Art History or Studio Art; and freshman or sophomore standing.

**Schedule Type:** Studio

**Contact Hours:** 6 other

**Grade Mode:** Standard Letter

**ART 30001 COMMON REVIEW 1 Credit Hour**

It provides an introduction to professional visual arts practices as well as a candid assessment of a student's emerging strengths. This formative review of digital portfolios, physical art work, and student writing by a panel of School of Art faculty members is intended to assist students in deciding on concentration(s) and degree program prior to enrollment in upper-division courses. Before enrolling in this course, students should have completed the prerequisites below, as well as any two of the following: ARTS 14060, ARTS 24002, ARTS 24010, ARTS 24040, ARTS 24051, ARTS 24061, ARTS 25300, ARTS 25400, ARTS 25600, ARTS 25700 (another two of these may be taken concurrently in the semester in which registering for this course).

**Prerequisite:** ART 10022, ART 10023, ART 10024, ARTS 14000, ARTS 14001 and ARTH 22007; and special approval.

**Schedule Type:** Studio

**Contact Hours:** 2 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**ART 30692 EXPERIENTIAL LEARNING IN THE VISUAL ARTS (ELR)****1-3 Credit Hours**

(Repeatable for maximum 6 credit hours) An undergraduate, experience-based learning activity carried out in a visual arts setting. Emphasis is on the goals of connecting ideas, concepts and skills developed in coursework to applications in new or different contexts, demonstrating how this experience has broadened students' understanding of their discipline, and reflection on significance of the experience. Learning contract required.

**Prerequisite:** A major in the School of Art; junior or senior standing; and special approval of faculty sponsor.

**Schedule Type:** Field Experience

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**Attributes:** Experiential Learning Requirement

**ART 40007 ARTS ENGAGEMENT: INTERPRETING FOR A COMMUNITY (WIC) 3 Credit Hours**

Development of a reflective and mindful approach to understanding and supporting the arts through articulating and communicating the experiences and meanings people construct from engaging with the arts.

**Prerequisite:** Major in the College of the Arts; and senior standing.

**Schedule Type:** Seminar

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Writing Intensive Course

**ART 40008 PROFESSIONAL PRACTICES IN VISUAL ARTS (WIC) 3 Credit Hours**

Introduction to the concerns and practices of the professional artist/craftsperson.

**Prerequisite:** Major in Studio Art; and senior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Writing Intensive Course

**ART 40092 FIELD EXPERIENCE TRAVEL STUDY IN ART (ELR) 1-3 Credit Hours**

(Repeatable for maximum 6 credit hours) Travel-based field experience in the visual arts at site(s) away from the university. Involves two or more visual arts disciplines and direct observation of works and experience of culture in context. May involve research, creative activity, presentation and-or written reflection as appropriate to site and goals of course.

**Prerequisite:** None.

**Schedule Type:** Field Experience

**Contact Hours:** 1-3 lecture

**Grade Mode:** Satisfactory/Unsatisfactory

**Attributes:** Experiential Learning Requirement

**ART 41093 VARIABLE TITLE WORKSHOP IN ART 1-6 Credit Hours**

(Repeatable for a total of 18 credit hours) (Cross-listed with ART 51093) Topics varies per course offering.

**Prerequisite:** Special approval.

**Schedule Type:** Workshop

**Contact Hours:** 1-6 other

**Grade Mode:** Satisfactory/Unsatisfactory

**ART 50092 FIELD EXPERIENCE TRAVEL STUDY IN ART 1-3 Credit Hours**

(Repeatable for maximum 6 credit hours) (Cross-listed with ART 40092) Travel-based field experience in the visual arts at site(s) away from the university. Involves two or more visual arts disciplines and direct observation of works and experience of culture in context. May involve research, creative activity, presentation and-or written reflection as appropriate to site and goals of course.

**Prerequisite:** Major in Art Education, Art History or Studio Art; and Graduate standing.

**Schedule Type:** Field Experience

**Contact Hours:** 1-3 lecture

**Grade Mode:** Standard Letter

**ART 51093 VARIABLE TITLE WORKSHOP IN ART 1-6 Credit Hours**

(Repeatable for credit) (Cross-listed with ART 41093) Topics vary per course offering.

**Prerequisite:** Graduate standing.

**Schedule Type:** Workshop

**Contact Hours:** 1-6 other

**Grade Mode:** Satisfactory/Unsatisfactory

**ART 67199 M.A.THESIS I 2-6 Credit Hours**

Thesis students must register for a minimum of 6 hours, 2 to 6 hours in a single semester distributed over several semesters if desired.

**Prerequisite:** Graduate standing.

**Schedule Type:** Masters Thesis

**Contact Hours:** 2-6 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**ART 67299 M.A.THESIS II 2 Credit Hours**

(Repeatable for credit) Thesis students must continue registration each semester until all degree requirements are met.

**Prerequisite:** ART 67199; and graduate standing.

**Schedule Type:** Masters Thesis

**Contact Hours:** 2 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP



**ART 69199 M.F.A. THESIS I 2-6 Credit Hours**

Thesis students must register for a total of 6 credit hours, 2 to 6 credit hours in a single semester distributed over several semesters if desired.

**Prerequisite:** Graduate standing.

**Schedule Type:** Masters Thesis

**Contact Hours:** 2-6 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**ART 69299 M.F.A. THESIS II 2 Credit Hours**

Thesis students must continue registration each semester until all degree requirements are met.

**Prerequisite:** ART 69199; and graduate standing.

**Schedule Type:** Masters Thesis

**Contact Hours:** 2 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

## Art Education (ARTE)

**ARTE 31001 ART EDUCATION: FOUNDATIONS AND CONCEPTS ELEMENTARY 3 Credit Hours**

An introduction to art education concepts. Emphasis on child development and on teaching the expressive and responsive dimensions of art in the early grades. Eleven field clinical hours are associated with this course.

**Prerequisite:** Minimum 2.500 overall GPA; major in Art Education; and sophomore standing.

**Schedule Type:** Studio

**Contact Hours:** 6 other

**Grade Mode:** Standard Letter

**ARTE 31005 SPECIAL TOPICS: ART EDUCATION- 2-4 Credit Hours**

(Repeatable for credit) Content varies per course offering.

**Prerequisite:** Special approval.

**Schedule Type:** Lecture

**Contact Hours:** 2-4 lecture

**Grade Mode:** Standard Letter-IP

**ARTE 31092 ART EDUCATION :TEACHING PRACTICUM (ELR) 3 Credit Hours**

A teaching experience for applying art education concepts. Analysis of instructional problems emphasized. Fifty-four field and/or clinical hours are associated with this course.

**Prerequisite:** ARTE 31001; and minimum 2.500 overall GPA.

**Schedule Type:** Lecture, Practical Experience

**Contact Hours:** 2 lecture, 3 other

**Grade Mode:** Standard Letter

**Attributes:** Experiential Learning Requirement

**ARTE 31096 INDIVIDUAL STUDY ART EDUCATION 2-10 Credit Hours**

(Repeatable for credit) Additional study in areas of a student's choice in consultation with adviser.

**Prerequisite:** Special approval.

**Schedule Type:** Individual Investigation

**Contact Hours:** 2-10 other

**Grade Mode:** Standard Letter-IP

**ARTE 41002 ART EDUCATION: FOUNDATIONS AND CONCEPTS - SECONDARY (ELR) 3 Credit Hours**

An examination of relationships between content, materials and strategies for teaching art to students in grades 7-12 and students with special needs. Nine field and/or clinical hours are associated with this course.

**Prerequisite:** ARTE 31004; and minimum 2.500 overall GPA.

**Schedule Type:** Practical Experience, Studio

**Contact Hours:** 7 other

**Grade Mode:** Standard Letter

**Attributes:** Experiential Learning Requirement

**ARTE 41004 PRE-KINDERGARTEN-12 DESIGN EDUCATION 3 Credit Hours**

(Slashed with ARTE 51004) Students develop lessons that address environment design, communication design, product design and interactive design, as well as conduct research methods and use materials that are appropriate for students in elementary and secondary schools. Students learn the design process and design thinking, adapted specifically for the context of PreK-12 education. Assignments are created around design issues that integrate with other subject areas, have relevance to young students' lives and connect to the national and Ohio content standards.

**Prerequisite:** None.

**Schedule Type:** Studio

**Contact Hours:** 6 other

**Grade Mode:** Standard Letter

**ARTE 41009 ART EDUCATION MAJOR REVIEW 1 Credit Hour**

Examination of student's knowledge, proficiency and ability to apply concepts in art and art education.

**Prerequisite:** Minimum 2.500 overall GPA.

**Pre/corequisite:** ARTE 41002 and ARTE 41192.

**Schedule Type:** Studio

**Contact Hours:** 3 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**ARTE 41092 FIELD EXPERIENCE:TRAVEL STUDY IN ART EDUCATION (ELR) 1-3 Credit Hours**

(Repeatable for credit) (Cross-listed with ARTE 51092) Travel-based study/field experience in art education at a site or sites away from Kent State University.

**Prerequisite:** Major in Art Education.

**Schedule Type:** Field Experience

**Contact Hours:** 1-3 other

**Grade Mode:** Satisfactory/Unsatisfactory

**Attributes:** Experiential Learning Requirement

**ARTE 41095 SPECIAL TOPICS IN ART EDUCATION 1-3 Credit Hours**

(Slashed with ARTE 51095) (Repeatable for credit) Upper-division course whose content changes in accordance with the interest and competence of faculty.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 1-3 lecture

**Grade Mode:** Standard Letter

**ARTE 41096 INDIVIDUAL STUDY-ART EDUCATION 1-6 Credit Hours**

(Repeatable for credit) Additional study in areas of students' choice in consultation with adviser.

**Prerequisite:** Special approval.

**Schedule Type:** Individual Investigation

**Contact Hours:** 1-6 other

**Grade Mode:** Standard Letter-IP

**ARTE 41192 ART EDUCATION: FIELD EXPERIENCE (ELR) (WIC) 3 Credit Hours**

(Slashed with ARTE 51192) A planning and teaching experience for teaching art in various settings; analysis of classroom situations emphasized. Fifty-four field and/or clinical hours are associated with this course.

**Prerequisite:** Minimum 2.500 overall GPA; and special approval.

**Pre/corequisite:** ARTE 41002.

**Schedule Type:** Practical Experience

**Contact Hours:** 9 other

**Grade Mode:** Standard Letter

**Attributes:** Experiential Learning Requirement, Writing Intensive Course

**ARTE 41525 ART EDUCATION:INQUIRY INTO PROFESSIONAL PRACTICE 3 Credit Hours**

(Slashed with ARTE 51525) Concepts and practices related to teaching art. Inquiry into art teaching as a professional practice. Emphasis is on teacher as critical disciplined investigator. Twenty-six field and/or clinical hours are associated with this course.

**Prerequisite:** ARTE 41009; and minimum 2.500 GPA; and special approval.

**Corequisite:** ARTE 41592.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ARTE 41592 ART EDUCATION:STUDENT TEACHING AND SEMINAR (ELR) 9 Credit Hours**

Provides a 14-week student teaching experience and associated seminar. See the student teaching section in the catalog. To be enrolled in student teaching, students must present to the clinical experience campus office official valid certification of Child Safety Training, approved Basic Life Support and ALICE training.

**Prerequisite:** ARTE 41009; and minimum 2.500 overall GPA; and special approval.

**Corequisite:** ARTE 41525.

**Schedule Type:** Practical Experience, Seminar

**Contact Hours:** 1 lecture, 24 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**Attributes:** Experiential Learning Requirement

**ARTE 51002 ART EDUCATION: FOUNDATIONS AND CONCEPTS SECONDARY 3 Credit Hours**

An examination of relationships among content, materials and strategies for teaching art to students in grades 7-12 and students with special needs. Nine field and or clinical hours are associated with this course.

**Prerequisite:** ARTE 31004; and minimum 2.750 overall GPA; and graduate standing.

**Schedule Type:** Field Experience, Lecture, Studio

**Contact Hours:** 3 lecture, 1 other

**Grade Mode:** Standard Letter

**ARTE 51004 PRE-KINDERGARTEN-12 DESIGN EDUCATION 3 Credit Hours**

(Slashed with ARTE 41004) Students develop lessons that address environment design, communication design, product design and interactive design, as well as conduct research methods and use materials that are appropriate for students in elementary and secondary schools. Students learn the design process and design thinking, adapted specifically for the context of PreK-12 education. Assignments are created around design issues that integrate with other subject areas, have relevance to young students' lives and connect to the national and Ohio content standards.

**Prerequisite:** Graduate standing.

**Schedule Type:** Studio

**Contact Hours:** 6 other

**Grade Mode:** Standard Letter

**ARTE 51092 FIELD EXPERIENCE:TRAVEL STUDY IN ART EDUCATION 1-3 Credit Hours**

(Repeatable for credit) (Cross-listed with ARTE 41092) Travel-based study/field experience in art education at a site or sites away from Kent State University.

**Prerequisite:** Major in Art Education; and graduate standing; and special approval.

**Schedule Type:** Field Experience

**Contact Hours:** 1-3 other

**Grade Mode:** Satisfactory/Unsatisfactory

**ARTE 51095 SPECIAL TOPICS IN ART EDUCATION 1-3 Credit Hours**

(Slashed with ARTE 41095) (Repeatable for credit) Upper-division course whose content changes in accordance with the interest and competence of faculty.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 1-3 lecture

**Grade Mode:** Standard Letter

**ARTE 51192 ART EDUCATION: FIELD EXPERIENCE 3 Credit Hours**

(Slashed with ARTE 41192) A planning and teaching experience for teaching art in various settings; analysis of classroom situations emphasized. Fifty-four field and or clinical hours are associated with this course.

**Prerequisite:** Graduate standing; and special approval.

**Pre/corequisite:** ARTE 41002 or ARTE 51002.

**Schedule Type:** Field Experience, Lecture

**Contact Hours:** 9 other

**Grade Mode:** Standard Letter

**ARTE 51525 ART EDUCATION:INQUIRY INTO PROFESSIONAL PRACTICE 3 Credit Hours**

Concepts and practices related to teaching art. Inquiry into art teaching as a professional practice. Emphasis is on teacher as critical disciplined investigator. Twenty six field and/or clinical hours are associated with this course.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ARTE 61095 SPECIAL TOPICS: ART EDUCATION 3 Credit Hours**

(Repeatable for credit) Topics vary per course offering to reflect the interests and specializations of faculty.

**Prerequisite:** ARTE 61101; and graduate standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ARTE 61096 INDIVIDUAL STUDY IN ART EDUCATION 1-6 Credit Hours**

(Repeatable for credit) Specialized study leading to the thesis in art education.

**Prerequisite:** ARTE 61101 and ARTE 61191 and ARTE 61291; and graduate standing; and special approval.

**Schedule Type:** Individual Investigation

**Contact Hours:** 1-6 other

**Grade Mode:** Standard Letter-IP

**ARTE 61101 RESEARCH SEMINAR IN ART EDUCATION 3 Credit Hours**

Specialized research seminar exploring methods and methodologies pertinent to research in art education.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Seminar

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ARTE 61191 SEMINAR IN ART EDUCATION I 3 Credit Hours**

(Repeatable for credit) Emphasizes the study of some prevailing themes in Pre K-12 art and design education. The curriculum focuses on the ideas of leading scholars and practicing teachers who have shaped practice in the field of art education within the context of the social, political and educational values and beliefs of the time.

**Prerequisite:** Major in Art Education; and graduate standing.

**Schedule Type:** Seminar

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**ARTE 61209 CANDIDACY REVIEW EXAMINATION:ART EDUCATION 1 Credit Hour**

A comprehensive review that undertakes a formal assessment of students' knowledge and understanding of concepts in art, education and art education.

**Prerequisite:** ARTE 61101; and graduate standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 1 lecture

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**ARTE 61291 SEMINAR IN ART EDUCATION II 3 Credit Hours**

(Repeatable for credit) A continuation of the topics addressed in ARTE 61191. The study of some prevailing themes in Pre K-12 art and design education. The curriculum focuses on the ideas of leading scholars and practicing teachers who have shaped practice in the field of art education within the context of the social, political and educational values and beliefs of the time.

**Prerequisite:** ARTE 61191; and graduate standing.

**Schedule Type:** Seminar

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**ARTE 61380 MASTER'S RESEARCH SEMINAR 2 Credit Hours**

(Repeatable twice for credit) Course guides the design of the proposal of the terminal project in the non-thesis track of the Master of Arts degree Art Education.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Seminar

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**ARTE 61398 MASTER'S PROJECT RESEARCH 1 Credit Hour**

(Repeatable for credit) Non-thesis option students undertake their project research and defend it before a committee.

**Prerequisite:** ARTE 61191 and ARTE 61291; and special approval.

**Schedule Type:** Research

**Contact Hours:** 1 other

**Grade Mode:** Standard Letter

## Art History (ARTH)

**ARTH 12001 ART AS A WORLD PHENOMENON (KFA) 3 Credit Hours**

Course explore the essential qualities of art and the motivations for creating art in both Western and non-Western cultures through a thematic paradigm. By the end of the term, students have developed an enhanced ability to identify and describe various media and styles of artistic production, and have a basic knowledge of the major cultural periods and representative artworks in the history of world art. This course is designed for non-art majors, and will not fulfill requirements for School of Art majors.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Kent Core Fine Arts, Transfer Module Fine Arts

**ARTH 22006 ART HISTORY: ANCIENT AND MEDIEVAL ART (KFA) 3 Credit Hours**

Examination and interpretation of the major monuments of Western art and architecture from Paleolithic art to late Gothic art. The impact of non-Western traditions is included as appropriate.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Kent Core Fine Arts, TAG Arts and Humanities, Transfer Module Fine Arts

**ARTH 22007 ART HISTORY: RENAISSANCE TO MODERN ART (KFA) 3 Credit Hours**

Major movements and artists in painting, sculpture and allied arts of Europe and America from early Renaissance in Italy until the present day. The impact of non-Western traditions is included as appropriate.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Kent Core Fine Arts, TAG Arts and Humanities, Transfer Module Fine Arts

**ARTH 22020 ART OF AFRICA, OCEANIA AND THE AMERICAS (DIVG) (KFA) 3 Credit Hours**

Stylistic and historical investigation of the art and architecture of the traditional societies of Africa, Oceania and the Americas within an art historical and cross-cultural perspective.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Diversity Global, Kent Core Fine Arts, Transfer Module Fine Arts

**ARTH 32066 LATE MODERN ART 3 Credit Hours**

Painting, sculpture and allied arts in the United States and Europe, from 1940 to the present.

**Prerequisite:** ARTH 22007.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ARTH 42000 RESEARCH AND WRITING IN ART HISTORY (WIC) 3 Credit Hours**

Introduction to the basic techniques and resources for art history research. Provides assistance in the preparation of research papers and critical essays required by upper-division art history courses.

**Prerequisite:** Junior or senior standing.

**Corequisite:** Art history upper-division (ARTH 30000 or 40000 level) course.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Writing Intensive Course

**ARTH 42025 ART OF WEST AFRICA (DIVG) 3 Credit Hours**

(Cross-listed with ARTH 52025) Arts, crafts and architecture of the western Sudanic and Guinea Coast areas of West Africa, from prehistoric times to the present.

**Prerequisite:** Junior or senior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Diversity Global

**ARTH 42026 ART OF NIGERIA (DIVG) 3 Credit Hours**

(Cross-listed with ARTH 52026) Study of the arts, crafts and architecture of Nigeria, from prehistoric times to the present.

**Prerequisite:** Junior or senior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Diversity Global

**ARTH 42027 ART OF CENTRAL AFRICA (DIVG) 3 Credit Hours**

(Cross-listed with ARTH 52027) Comparative study of the arts, crafts and architecture of Central Africa, from prehistoric times to the present.

**Prerequisite:** Junior or senior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Diversity Global

**ARTH 42031 GREEK ARCHAEOLOGY AND ART 3 Credit Hours**

(Cross-listed with CLAS 41401)(Slashed with ARTH 52031 and CLAS 51401) Introduction to archaeology of the Greek world with emphasis on recent discoveries and their impact on the study of Greek art, architecture and sculpture through the Hellenistic period.

**Prerequisite:** Junior or senior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ARTH 42032 ROMAN ARCHAEOLOGY AND ART 3 Credit Hours**

(Cross-listed with CLAS 41402)(Slashed with ARTH 52032 and CLAS 51402) Introduction to archaeology of the Roman world with emphasis on recent discoveries and their impact on the study of Etruscan and Roman art, architecture and sculpture through the Imperial period.

**Prerequisite:** Junior or senior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ARTH 42036 MEDIEVAL ART 3 Credit Hours**

(Cross-listed with ARTH 52036) Emphasis on major period of Medieval art (Byzantine, Carolingian, Ottonian, Romanesque and Gothic) treating iconographic themes and styles in a variety of media.

**Prerequisite:** Junior or senior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ARTH 42039 GOTHIC ART, 12TH TO 15TH CENTURIES 3 Credit Hours**

(Cross-listed with ARTH) An examination of the development of European Gothic art from the 12th century to the 15th century. Emphasis on the ties to contemporary philosophical and literary developments.

**Prerequisite:** ARTH 22006 and ARTH 22007.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ARTH 42041 ITALIAN RENAISSANCE ART 3 Credit Hours**

(Cross-listed with ARTH 52041) Study of development of major themes in Italian art from 1400 until about 1550, emphasizing achievements of the masters and analyzing major ideas and theories of the period.

**Prerequisite:** Junior or senior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ARTH 42042 NORTHERN RENAISSANCE ART 3 Credit Hours**

(Cross-listed with ARTH 52042) Study of stylistic and iconographic questions and technique in Northern panel painting, as well as other arts in Northern Europe.

**Prerequisite:** Junior or senior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ARTH 42043 THE HIGH RENAISSANCE AND MANNERISM IN ITALY 3 Credit Hours**

(Cross-listed with ARTH 52043) Covers late 15th century and 16th century painting, sculpture and architecture in Italy. Following discussion of the High Renaissance masters, students examine the works collectively known as the Mannerists. Course gives students a firm grounding in the manifold artistic activity of the 16th century.

**Prerequisite:** Junior or senior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter



**ARTH 42044 VENETIAN RENAISSANCE ART 3 Credit Hours**

(Cross-listed with ARTH 52044) Course provides a survey of Venetian painting, sculpture and architecture from the late 1300's to the late 1500's. Upon completion students have a comprehension of the interrelationship of Venetian art with its unique environment and society.

**Prerequisite:** Junior or senior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ARTH 42045 ITALIAN ART FROM GIOTTO TO BERNINI 3 Credit Hours**

(Slashed with ARTH 52045) Course explores the development of art and architecture in Italy from the late Middle Ages to the High Renaissance period. Through an in-depth analysis of the art and history of these periods, students develop an understanding of Italy's role in the overall development of Western civilization. Particular emphasis is given to Florentine Art.

**Prerequisite:** Junior or senior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ARTH 42046 BAROQUE ART OF THE 17TH CENTURY 3 Credit Hours**

(Slashed with ARTH 52046) Study of the origins of Baroque art in Italy and its spread throughout Flanders, the Netherlands, France and Spain.

**Prerequisite:** Junior or senior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ARTH 42051 EUROPEAN ART AND IDEAS: 1750-1900 3 Credit Hours**

(Slashed with ARTH 52051) Selected studies in late 18th-century and 19th-century British, French, German and Spanish art and architecture within the broader context of Western culture and ideas.

**Prerequisite:** Junior or senior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ARTH 42061 EARLY 20TH-CENTURY ART 3 Credit Hours**

(Cross-listed with ARTH 52061) Study of painting, sculpture, architecture and allied arts in Europe from 1880 to 1940.

**Prerequisite:** ARTH 22007.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ARTH 42062 PICASSO 3 Credit Hours**

Course provides a survey of the art of Picasso, starting with his childhood works. Students gain a better understanding of Picasso's pivotal importance to 20th century art and various influences that cultivated his incredible creativity.

**Prerequisite:** Junior or senior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ARTH 42063 AMERICAN ART:EUROPEAN ROOTS 3 Credit Hours**

(Cross-listed with ARTH 52063) Examines the role of European roots in the formation of American art. The complex issues and identities artists faced as a result of the expatriate experience are addressed.

**Prerequisite:** Junior or senior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ARTH 42064 DADA AND SURREALISM 3 Credit Hours**

Using a roughly chronological approach, students examine the profound and lasting contributions made by the Dadaists and Surrealists, as well as other revolutionary modernists of the early 20th century who sought to escape the traditional and rational in art and thought with sincerity in spite of the often superficially simple or even sometimes nihilistic appearance of their efforts. Through an analysis of selected works from this period and their relevant precursors, an attempt will be made to define the progressive ideas which led to the dismantling of previous standards and the rise of an anti-art spirit which continues today in various guises. Primary documents are considered regularly to provide students with a wider appreciation for the variety of media (e.g., film, theater, typography) and the issues and characters involved.

**Prerequisite:** Junior or senior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ARTH 42067 ART OF THE 1960S 3 Credit Hours**

(Cross-listed with ARTH 52067) A survey of the major movement of the sixties decade, with primary emphasis on the United States.

**Prerequisite:** Junior or senior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ARTH 42071 HISTORY OF PRINTS 3 Credit Hours**

Chronological survey of printmaking (engraving, etching, lithography, etc.) From 1400 to the present emphasizing its technical and stylistic evolution.

**Prerequisite:** Junior or senior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ARTH 42076 HISTORIES AND THEORIES OF PHOTOGRAPHY AND VISUAL CULTURE 3 Credit Hours**

(Slashed with ARTH 52076) Photography is embedded in every aspect of visual culture. As such, this course is a socio-political and socio-cultural study of photography. This course focuses on major developments in the field, including photography's advent, 19th-century commodity, scientific manipulations, 20th century Modernism and postwar aesthetics. Course also sketches political, cultural and theoretical developments and pertinent debates regarding emergence, significance, interpretation, perception and resonance. In addition to manifold moments in histories and theories of photography, course examines critical approaches to the history of art, including ecocriticism, feminism, critical race studies, queer studies and borderlands studies. While effort will be made to survey photography's history, this is not taxonomy of related movements and moments.

**Prerequisite:** ARTH 32066.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ARTH 42078 HISTORY OF THE DECORATIVE AND APPLIED ARTS 3 Credit Hours**

(Cross-listed with ARTH 52078) Historical and critical examination of decorative and applied arts and their relationship to the Western societies which produced them.

**Prerequisite:** ARTH 22006 and ARTH 22007.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter



**ARTH 42091 ART HISTORY SEMINAR 3 Credit Hours**

(Repeatable for credit) Open format course with topics announced in advance. Designed to allow detailed examination of selected topics.

**Prerequisite:** Junior standing; and special approval of instructor.

**Schedule Type:** Seminar

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**ARTH 42092 MUSEUM INTERNSHIP (ELR) 1-6 Credit Hours**

(Repeatable for credit) (Slashed with ARTH 52092) A supervised internship in a regional museum emphasizing the practical application of museological principles and practices.

**Prerequisite:** Junior or senior standing.

**Schedule Type:** Practical Experience

**Contact Hours:** 3-18 other

**Grade Mode:** Standard Letter-IP

**Attributes:** Experiential Learning Requirement

**ARTH 42095 SPECIAL TOPICS:ART HISTORY 1-3 Credit Hours**

(Repeatable for credit) (Cross-listed with ARTH 52095) Topics vary in accordance with the interest and competence of faculty.

**Prerequisite:** Junior or senior standing.

**Schedule Type:** Lecture

**Contact Hours:** 1-3 lecture

**Grade Mode:** Standard Letter

**ARTH 42096 INDIVIDUAL INVESTIGATION:ART HISTORY 1-3 Credit Hours**

(Repeatable for credit) (Cross-listed with ARTH 52096) Directed independent study with art history faculty.

**Prerequisite:** Junior or senior standing.

**Schedule Type:** Individual Investigation

**Contact Hours:** 1-3 other

**Grade Mode:** Standard Letter-IP

**ARTH 42098 RESEARCH IN ART HISTORY (ELR) 1-3 Credit Hours**

(Repeatable for credit) (Slashed with ARTH 52098) Independent research open only to undergraduate students in art history or related fields (by special permission only).

**Prerequisite:** Special approval.

**Schedule Type:** Research

**Contact Hours:** 3-9 other

**Grade Mode:** Standard Letter

**Attributes:** Experiential Learning Requirement

**ARTH 42192 FIELD EXPERIENCE:TRAVEL STUDY IN ART HISTORY (ELR) 1-3 Credit Hours**

(Repeatable for credit) (Cross-listed with ARTH 52192) Travel-based study/field experience in art history to and at a site or sites away from Kent State University. The primary benefit will be the observation and study of works of art first hand, in addition to the presentation and discussion of historical and contextual factors. Time is made available for individual investigation of specific works sites.

**Prerequisite:** Major in Art History.

**Schedule Type:** Field Experience

**Contact Hours:** 1-3 other

**Grade Mode:** Satisfactory/Unsatisfactory

**Attributes:** Experiential Learning Requirement

**ARTH 52025 ART OF WEST AFRICA 3 Credit Hours**

(Cross-listed with ARTH 42025) Arts, crafts and architecture of the Western Sudanic and Guinea Coast areas of West Africa from prehistoric times to the present.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ARTH 52026 ART OF NIGERIA 3 Credit Hours**

(Cross-listed with ARTH 42026) Study of the arts, crafts and architecture of Nigeria from prehistoric times to present.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ARTH 52027 ART OF CENTRAL AFRICA 3 Credit Hours**

(Cross-listed with ARTH 42027) Study of the arts, crafts and architecture of Central Africa from prehistoric times to present.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ARTH 52031 GREEK ARCHAEOLOGY AND ART 3 Credit Hours**

(Cross-listed with CLAS 51401)(Slashed with ARTH 42031 and CLAS 41401) Introduction to archaeology of the Greek world with emphasis on recent discoveries and their impact on the study of Greek art, architecture and sculpture through the Hellenistic period.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ARTH 52032 ROMAN ARCHAEOLOGY AND ART 3 Credit Hours**

(Cross-listed with CLAS 51402)(Slashed with ARTH 42032 and CLAS 41402) Introduction to archaeology of the Roman world. Emphasis on discoveries and impact on the study of Etruscan and Roman art, architecture and sculpture through Imperial period.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ARTH 52036 MEDIEVAL ART 3 Credit Hours**

(Cross-listed with ARTH 42036) Emphasis on major periods of Medieval art (Byzantine, Carolingian, Ottonian, Romanesque and Gothic), treating iconographic themes and styles in a variety of media.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ARTH 52038 HAND MADE BOOKS AND ART 3 Credit Hours**

Course examines the history of (predominantly Western) books and reading; of books as locus of several types of visual art (decoration, illustration, vision, commentary); and of visual strategies for a range of communication tasks in selected books from the Middle Ages onward. Students are prepared to understand the variety and efficacy of approaches that have been used by those producing books by hand in the past and at present.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ARTH 52039 GOTHIC ART:12TH TO 15TH CENTURIES 3 Credit Hours**

An examination of the development of European Gothic art from the 12th to the 15th centuries. Students research specific works of art. Emphasis on contemporary historical philosophical and literary figures.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ARTH 52041 ITALIAN RENAISSANCE ART 3 Credit Hours**

(Cross-listed with ARTH 42041) Study of development of major themes in Italian art from 1400 until about 1550, emphasizing achievements of the masters and analyzing major ideas and theories of the period.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ARTH 52042 NORTHERN RENAISSANCE ART 3 Credit Hours**

(Cross-listed with ARTH 42042) Study of stylistic and iconographic questions and technique in northern panel painting, as well as other arts in Northern Europe.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ARTH 52043 THE HIGH RENAISSANCE AND MANNERISM IN ITALY 3 Credit Hours**

(Cross-listed with ARTH 42043) Covers late 15th century and 16th century painting, sculpture and architecture in Italy. Following discussion of the High Renaissance masters students examine the works collectively known as the Mannerists. Course gives students a firm grounding in the manifold artistic activity of the 16th century.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ARTH 52044 VENETIAN RENAISSANCE ART 3 Credit Hours**

(Cross-listed with ARTH 42044) Course provides a survey of Venetian painting, sculpture and architecture from the late 1300's to the late 1500's. Upon completion students will have a comprehension of Venetian art with its unique environment and society.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ARTH 52045 ITALIAN ART FROM GIOTTO TO BERNINI 3 Credit Hours**

(Slashed with ARTH 42045) Course explores the development of art and architecture in Italy from the late Middle Ages to the High Renaissance period. Through an in-depth analysis of the art and history of these periods, students develop an understanding of Italy's role in the overall development of Western civilization. Particular emphasis is given to Florentine Art.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ARTH 52046 BAROQUE ART IN EUROPE 3 Credit Hours**

(Slashed with ARTH 42046) A study of the origins of Baroque art in Italy and its spread throughout Flanders, the Netherlands, France and Spain.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ARTH 52051 EUROPEAN ART, 1750-1900 3 Credit Hours**

(Cross-listed with ARTH 42051) Selected studies in late 18th-century and 19th-century painting, sculpture architecture and allied arts of England, France, Germany and Spain.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ARTH 52061 EARLY 20TH-CENTURY ART 3 Credit Hours**

(Cross-listed with ARTH 42061) A study of painting, sculpture, architecture and allied arts in Europe from 1880 to 1940.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ARTH 52062 PICASSO 3 Credit Hours**

Course provides a survey of the art of Picasso, starting with his childhood works. Students gain a better understanding of Picasso's pivotal importance to 20th century art and the various influences that cultivated his incredible creativity.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ARTH 52063 AMERICAN ART:EUROPEAN ROOTS 3 Credit Hours**

(Cross-listed with ARTH 42063) Examines the role of European roots in the formation of American art. The complex issues and identities artists faced as a result of the expatriate experience are addressed.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ARTH 52064 DADA AND SURREALISM 3 Credit Hours**

Using a roughly chronological approach, students examine the profound and lasting contributions made by the Dadaists and Surrealists, as well as other revolutionary modernists of the early 20th century who sought to escape the traditional and rational in art and thought with sincerity in spite of the often superficially simple or even sometimes nihilistic appearance of their efforts. Through an analysis of selected works from this period and their relevant precursors, an attempt will be made to define the progressive ideas which led to the dismantling of previous standards and the rise of an anti-art spirit which continues today in various guises. Primary documents are considered regularly to provide students with a wider appreciation for the variety of media (e.g., film, theater, typography) and the issues and characters involved.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ARTH 52066 LATE MODERN ART SINCE 1940 3 Credit Hours**

A study of painting, sculpture and allied arts in the United States and Europe from 1940 to the present.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ARTH 52067 ART OF THE 1960S 3 Credit Hours**

(Cross-listed with ARTH 42067) A survey of major movements of the sixties decade, with primary emphasis on the United States.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ARTH 52076 HISTORIES AND THEORIES OF PHOTOGRAPHY AND VISUAL CULTURE 3 Credit Hours**

(Slashed with ARTH 42076) Photography is embedded in every aspect of visual culture. As such, this course is a socio-political and socio-cultural study of photography. This course focuses on major developments in the field, including photography's advent, 19th-century commodity, scientific manipulations, 20th century Modernism and postwar aesthetics. Course also sketches political, cultural and theoretical developments and pertinent debates regarding emergence, significance, interpretation, perception and resonance. In addition to manifold moments in histories and theories of photography, course examines critical approaches to the history of art, including ecocriticism, feminism, critical race studies, queer studies and borderlands studies. While effort will be made to survey photography's history, this is not taxonomy of related movements and moments.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ARTH 52078 HISTORY OF DECORATIVE AND APPLIED ARTS 3 Credit Hours**

(Cross-listed with ARTH 42078) Historical and critical examination of decorative and applied arts and their relationship to Western societies which produced them.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ARTH 52092 MUSEUM INTERNSHIP 1-6 Credit Hours**

(Repeatable for credit) (Slashed with ARTH 42092) A supervised internship in a regional museum emphasizing the practical application of museological principles and curatorial practices.

**Prerequisite:** Graduate standing.

**Schedule Type:** Practical Experience

**Contact Hours:** 3-18 other

**Grade Mode:** Standard Letter-IP

**ARTH 52095 SPECIAL TOPICS:ART HISTORY 1-3 Credit Hours**

(Repeatable for credit) (Cross-listed with ARTH 42095) Topics vary in accordance with the interest and competence of faculty.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 1-3 lecture

**Grade Mode:** Standard Letter

**ARTH 52096 INDIVIDUAL INVESTIGATION:ART HISTORY 1-3 Credit Hours**

(Repeatable for credit) (Slashed with ARTH 42096) Directed independent study with art history faculty.

**Prerequisite:** Graduate standing.

**Schedule Type:** Individual Investigation

**Contact Hours:** 3-9 other

**Grade Mode:** Standard Letter-IP

**ARTH 52098 RESEARCH IN ART HISTORY 1-3 Credit Hours**

(Repeatable for credit) (Slashed with ARTH 42098) Independent research open only to graduate students in art history or related fields.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Research

**Contact Hours:** 3-9 other

**Grade Mode:** Standard Letter-IP

**ARTH 52192 FIELD EXPERIENCE:TRAVEL STUDY IN ART HISTORY 1-3 Credit Hours**

(Repeatable for credit) (Slashed with ARTH 42192) Travel-based study/field experience in art history to and at a site or sites away from Kent State University. The primary benefit will be the observation and study of works of art first hand, in addition to the presentation and discussion of historical and contextual factors. Time is made available for individual investigation of specific works sites.

**Prerequisite:** Major in Art History; and graduate standing.

**Schedule Type:** Field Experience

**Contact Hours:** 3 other

**Grade Mode:** Satisfactory/Unsatisfactory

**ARTH 62000 ART HISTORY RESEARCH METHODS AND RESOURCES 2 Credit Hours**

This course provides necessary foundational skills and resources in order to conduct research in art history.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**ARTH 62071 HISTORY OF PRINTS 3 Credit Hours**

A chronological survey of printmaking (engraving, etching, lithography, etc.) From 1400 to the present emphasizing its technical and stylistic evolution.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ARTH 62091 ART HISTORY SEMINAR 3 Credit Hours**

(Repeatable for maximum 9 credit hours) Open format course with topics announced in advance. Designed to allow in-depth examination of selected topics.

**Prerequisite:** Graduate standing.

**Schedule Type:** Seminar

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**ARTH 62095 SPECIAL TOPICS: ART HISTORY 3 Credit Hours**

(Repeatable for credit) Discussion and lecture course whose topic changes in accordance with the interest and competence of the faculty. Special focus on problems and issues in the different areas of the discipline.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ARTH 62096 SELECTED PROBLEMS: ART HISTORY 3 Credit Hours**

(Repeatable for maximum 9 credit hours) Course content changes each semester according to the topic, entailing discussion and lectures on specific problems issues and areas in art history.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Individual Investigation

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**ARTH 62098 RESEARCH 1-15 Credit Hours**

(Repeatable for credit) Independent research.

**Prerequisite:** Master of Arts degree in Art History; and graduate standing.

**Schedule Type:** Research

**Contact Hours:** 1-15 other

**Grade Mode:** Standard Letter

## Art Studio Art (ARTS)

**ARTS 14000 DRAWING I 3 Credit Hours**

Fundamental drawing and studio experiences; exploration of basic drawing ideas and media. Work produced in class must be retained for later portfolio presentation in ART 30001.

**Prerequisite:** None.

**Schedule Type:** Studio

**Contact Hours:** 6 other

**Grade Mode:** Standard Letter

**Attributes:** TAG Arts and Humanities

**ARTS 14001 DRAWING II 3 Credit Hours**

Continued practice in drawing with emphasis upon dimensional representation, pictorial structure and the breakdown of formal elements. Work produced in this class must be retained for later portfolio presentation in ART 30001.

**Prerequisite:** ARTS 14000.

**Schedule Type:** Studio

**Contact Hours:** 6 other

**Grade Mode:** Standard Letter

**ARTS 24002 DRAWING AS A STUDIO PRACTICE 3 Credit Hours**

An introduction to advanced concepts and ideas which enable the student to understand and professionally realize their drawings as a studio practice. Work produced in this course must be retained for later portfolio presentation in ART 30001.

**Prerequisite:** ARTS 14000 and ARTS 14001.

**Schedule Type:** Studio

**Contact Hours:** 6 other

**Grade Mode:** Standard Letter

**ARTS 24010 INTRODUCTION TO FINE ART PHOTOGRAPHY 3 Credit Hours**

Introductory studio/lecture course which introduces fine art photography with an aesthetic, contemporary approach. Students learn traditional and digital photographic image-making applications and the historical underpinnings of the photograph in modern art. Research paper and portfolio required. Work produced in this class must be retained for later portfolio presentation in ART 30001.

**Prerequisite:** None.

**Schedule Type:** Studio

**Contact Hours:** 6 other

**Grade Mode:** Standard Letter

**ARTS 24040 PRINTMAKING I 3 Credit Hours**

Course gives the beginning student an overview of basic printmaking techniques and an understanding of what a print is, its form in both unique and multiple formats, and how these function in culture.

Printmaking processes result in a rich array of pictorial possibilities and methodological approaches. Students are exposed to the basic techniques and concepts of relief, intaglio and monotype applications for printmaking.

**Prerequisite:** None.

**Schedule Type:** Studio

**Contact Hours:** 6 other

**Grade Mode:** Standard Letter

**ARTS 24051 INTRODUCTION TO SCULPTURAL PRACTICE 3 Credit Hours**

Course provides a firm grounding in the rudiments of sculpture and sculpture's expanding field. Drawing on historical, aesthetic and technical strategies of generating and understanding sculpture; students are guided toward the realization of three-dimensional form. Discussions of materials, processes and hands-on practice empower the student to move from concept to completed work, engendering a better understanding of how sculpture is situated within the context of culture and society at large. Students explore the formal properties and expressive potential of materials, including mold making and casting, wood, metal and experimental media. Readings, slide presentations, discussions and critiques help provide the vocabulary for such an understanding.

**Prerequisite:** None.

**Schedule Type:** Studio

**Contact Hours:** 6 other

**Grade Mode:** Standard Letter

**ARTS 24061 INTRODUCTION TO PAINTING 3 Credit Hours**

Acrylic-based media is used to introduce the fundamentals of building a painting, the development of a sophisticated painting vocabulary, and a confident understanding of color. Emphasis on observational painting from life through varied techniques, with an introduction to tools, processes and best studio practices. Work must be retained for later portfolio presentation in Art 30001.

**Prerequisite:** None.

**Schedule Type:** Studio

**Contact Hours:** 6 other

**Grade Mode:** Standard Letter

**ARTS 25300 TEXTILES: PATTERN 3 Credit Hours**

An introduction to the concepts and processes of constructed pattern including plaiting, and weaving. Off-loom and floor loom explorations will emphasize the relationship of form and structure in textile art. An emphasis is placed on the resourceful use of nontraditional or experimental materials.

**Prerequisite:** None.

**Schedule Type:** Studio

**Contact Hours:** 6 other

**Grade Mode:** Standard Letter

**ARTS 25400 CERAMICS I 3 Credit Hours**

Course introduces ceramics as an artistic medium, with focus on the handbuilding of clay objects using the pinch, coil and slab methods of construction.

**Prerequisite:** None.

**Schedule Type:** Studio

**Contact Hours:** 6 other

**Grade Mode:** Standard Letter

**Attributes:** TAG Arts and Humanities

**ARTS 25600 INTRODUCTION TO GLASS WORKING 3 Credit Hours**

Introduction to studio glass through technique and brief history. Both basic glass blowing and glass casting techniques and problems are covered.

**Prerequisite:** None.

**Schedule Type:** Studio

**Contact Hours:** 6 other

**Grade Mode:** Standard Letter

**ARTS 25700 INTRODUCTION TO JEWELRY METALS I 3 Credit Hours**

Introduction to basic jewelry and metalsmithing techniques including fabrication, forming and finishing. Emphasis on advancing design skills and critical analysis. Exposure to historical and contemporary works.

**Prerequisite:** None.

**Schedule Type:** Studio

**Contact Hours:** 6 other

**Grade Mode:** Standard Letter

**ARTS 25701 INTRODUCTION TO JEWELRY/METALS FOR NON-ART MAJORS 3 Credit Hours**

Introduction to basic jewelry and metalsmithing techniques including fabrication, forming and finishing. Emphasis on advancing design skills and critical analysis. Exposure to historical and contemporary works.

**Prerequisite:** Major that is not in the School of Art.

**Schedule Type:** Studio

**Contact Hours:** 5 other

**Grade Mode:** Standard Letter

**ARTS 34002 FIGURE DRAWING 3 Credit Hours**

(Repeatable for credit) Extensive studio practice of traditional and contemporary approaches to the human figure. Critical analysis of the figure from the Renaissance through postmodernism. Students work from a nude model.

**Prerequisite:** ARTS 24001 or ARTS 24002.

**Schedule Type:** Studio

**Contact Hours:** 6 other

**Grade Mode:** Standard Letter

**ARTS 34003 DRAWING: STRUCTURE AND EXPERIMENTATION 3 Credit Hours**

(Repeatable for credit) Extensive exploration of advanced drawing concepts and ideas as strategies for experimentation with process and materials.

**Prerequisite:** ARTS 24001 or ARTS 24002.

**Schedule Type:** Studio

**Contact Hours:** 6 other

**Grade Mode:** Standard Letter

**ARTS 34040 PRINTMAKING:INTERMEDIATE INTAGLIO 3 Credit Hours**

Continuation of ARTS 24040 emphasizing individually assigned problems in intaglio with introduction to color intaglio techniques.

**Prerequisite:** ART 10022 and ART 10024 and ARTS 24040.

**Schedule Type:** Studio

**Contact Hours:** 6 other

**Grade Mode:** Standard Letter

**ARTS 34041 SERIGRAPHY I 3 Credit Hours**

The initial presentation of fundamental concepts and processes pertaining to serigraphy. Course includes printing techniques and aesthetic considerations in the making of art.

**Prerequisite:** ART 10022 and ART 10024 and ARTS 24040.

**Schedule Type:** Studio

**Contact Hours:** 6 other

**Grade Mode:** Standard Letter

**ARTS 34042 LITHOGRAPHY I 3 Credit Hours**

Introduction to stone lithography. Techniques of drawing and printing crayon, tusche, transfer and color images and their relation to problems of drawing and composition. Prerequisite: ART 10022, ART 10024 and ARTS 24040

**Schedule Type:** Studio

**Contact Hours:** 6 other

**Grade Mode:** Standard Letter

**ARTS 34050 SCULPTURE: LIFE MODELING 3 Credit Hours**

(Repeatable for maximum 6 credit hours) Continuation of the study of the human figure in sculpture.

**Prerequisite:** ARTS 24051.

**Schedule Type:** Studio

**Contact Hours:** 6 other

**Grade Mode:** Standard Letter



**ARTS 34051 SCULPTURAL OBJECT 3 Credit Hours**

Course builds on ARTS 24051 with a greater emphasis on content, proficiency, technical expertise, craftsmanship and understanding of contemporary sculpture. Students explore the object in space, delineating issues of scale, materiality, representation, abstraction, metaphor and hybridity. Drawing on historical, aesthetic and technical strategies of generating and understanding sculpture, students are guided toward the realization of more sophisticated and complex ways of handling materials and incorporating meaning. Discussions of materials, processes and hands-on practice empower the student to move from concept to completed work, engendering a better understanding of how sculpture is situated within the context of culture and society at large. Readings, slide presentations, discussions and critiques help provide the vocabulary for such an understanding.

**Prerequisite:** ARTS 24051.

**Schedule Type:** Studio

**Contact Hours:** 6 other

**Grade Mode:** Standard Letter

**ARTS 34052 TIME ARTS 3 Credit Hours**

This interdisciplinary class investigates the fundamentals of time-based media and its intersection with sculptural practice. Students build on concepts from ARTS 24051 to gain a broader understanding of multiple methods of making including performance, video, site and situation-specific works, as well as the use of traditional sculptural materials. Discussions of materials, processes and hands-on practice empower the student to move from concept to completed work engendering a better understanding of how sculpture is situated within the contemporary art world. Readings, slide presentations, discussions and critiques help provide the vocabulary for such an understanding.

**Prerequisite:** ARTS 24051.

**Schedule Type:** Studio

**Contact Hours:** 6 other

**Grade Mode:** Standard Letter

**ARTS 34053 SITE AND INSTALLATION 3 Credit Hours**

This interdisciplinary course builds on concepts introduced in ARTS 24051, and expands on a variety of approaches in developing site-specific installations by considering the relationship between object/context, public/private, interior/exterior and urban/rural. Through the manipulation of materials, found objects and time-based media, students are introduced to concepts of space, intention, site and intervention through experimental approaches. Students further develop an understanding of material and context through in-depth readings, lectures and critical dialogue. Sculptural techniques, performance, photography and video art are covered and incorporated into the course. Studio time is supplemented by readings, lectures and site visits around campus.

**Prerequisite:** ARTS 24051.

**Schedule Type:** Studio

**Contact Hours:** 6 other

**Grade Mode:** Standard Letter

**ARTS 34061 INTERMEDIATE PAINTING 3 Credit Hours**

Continuation of painting from observation with an introduction to oil paints and mediums. Students will look outside of the still life at various subjects including spatial dynamics, the figure, and abstracted imagery. Introduction to oil painting tools, processes, and best studio practices

**Prerequisite:** ARTS 14060 or ARTS 24061.

**Schedule Type:** Studio

**Contact Hours:** 6 other

**Grade Mode:** Standard Letter

**ARTS 34062 PAINTING STRATEGIES: PROCESS AND CONTENT 3 Credit Hours**

This course focuses on conceptual prompts relative to contemporary issues to encourage a variety of processes and material approaches to making paintings. Students continue the idea of building a painting through the iterative process of making, analyzing, and editing their work throughout the semester. The painting is a live surface, a place to collect and record information, and this course insists that students consider a wide range of formal and conceptual choices to best address content. Each project will be initiated with rigorous research and further supported by exposure to visual examples of historic and contemporary painting, readings, written responses, seminar-style discussions, and numerous critiques of both in-progress and finished work.

**Prerequisite:** ARTS 24060 or ARTS 34061.

**Schedule Type:** Studio

**Contact Hours:** 6 other

**Grade Mode:** Standard Letter

**ARTS 34063 PAINTING STRATEGIES: IMAGE AND CONTENT 3 Credit Hours**

This course investigates various contemporary painting strategies through the use of images as source materials, with a strong emphasis on narrative. Moving away from direct observation and towards the abstraction of imagery, students will be asked to approach their practice through research, preliminary studies and sketches, and a self-driven investigation of the use of images to create concept. Various prompts will be assigned and are designed to provide students with a stronger understanding of the use of found, self-produced, or appropriated imagery as reference for their work, while helping each student build a direction for their painting practice. We will look to other mediums such as film, photography, collage, and advertising to inform the painted image and improve the reading of contemporary painting. We will look to other mediums to better contextualize the painted image in contemporary art.

**Prerequisite:** ARTS 24060 or ARTS 34061.

**Schedule Type:** Studio

**Contact Hours:** 6 other

**Grade Mode:** Standard Letter

**ARTS 35095 STUDIO ART: SPECIAL TOPICS 3 Credit Hours**

(Repeatable for credit) Specialized courses in studio art that focus on specific techniques and media.

**Prerequisite:** Special approval.

**Schedule Type:** Studio

**Contact Hours:** 6 other

**Grade Mode:** Standard Letter

**ARTS 35300 TEXTILES: DIMENSIONAL 3 Credit Hours**

An introduction to the development of unique sculptural objects in textile media. Students explore three-dimensional textile processes using the floor loom and various basketry techniques, including wrapping and coiling and off-loom weaving.

**Prerequisite:** Special approval.

**Schedule Type:** Studio

**Contact Hours:** 6 other

**Grade Mode:** Standard Letter

**ARTS 35301 TEXTILES: PRINT PATTERN 3 Credit Hours**

Focus is on the unique aspects of printing repeat designs on cloth. Screenprinted pattern - developed through manual techniques and digital design - is considered in relation to the surface and the flexible plane of cloth. The development of design, craft skills, and critical evaluation are emphasized in relation to art and industry applications.

**Prerequisite:** Special approval.

**Schedule Type:** Studio

**Contact Hours:** 6 other

**Grade Mode:** Standard Letter

**ARTS 35302 TEXTILES: FELTMAKING 3 Credit Hours**

An opportunity for the in-depth exploration of technical and aesthetic possibilities of this unique process. Layers and textures in two dimensions and processes for three-dimensional feltmaking are introduced and considered as an expressive vocabulary with potential as functional form. Dyeing of wool fleece plays a major role in the course.

**Prerequisite:** Special approval.

**Schedule Type:** Studio

**Contact Hours:** 6 other

**Grade Mode:** Standard Letter

**ARTS 35303 TEXTILES: TAPESTRY 3 Credit Hours**

An introduction to a variety of traditional pictorial tapestry, discontinuous weft faced techniques, to be executed on the frame loom and floor loom. Both tapestry and carpet history are presented to reveal traditional processes, patterns, and images for inspiration in the creation of individual works. Dyeing will play a major role in the exploration.

**Prerequisite:** Special approval.

**Schedule Type:** Studio

**Contact Hours:** 6 other

**Grade Mode:** Standard Letter

**ARTS 35305 TEXTILES: ACCESSORIES - DESIGN AND PRODUCTION 3 Credit Hours**

Focus is on the design and production of textile accessories using the structural process of weaving. Texture, material, and color are critically and creatively considered in relation to the development of unique functional objects. Professional design objectives are presented.

**Prerequisite:** Special approval.

**Schedule Type:** Studio

**Contact Hours:** 6 other

**Grade Mode:** Standard Letter

**ARTS 35306 TEXTILES: SURFACE COLOR AND DESIGN 3 Credit Hours**

Introduction to coloring and patterning cloth through dyeing and resist techniques. Formal and conceptual aspects of surface design in relation to the flexible cloth plane are explored. Study of traditional historic and contemporary textile references provide a foundation for creative development.

**Prerequisite:** Special approval.

**Schedule Type:** Studio

**Contact Hours:** 6 other

**Grade Mode:** Standard Letter

**ARTS 35350 TEXTILES: DESIGN AND PRODUCTION 3 Credit Hours**

A basic introduction to the mechanics of designing and constructing patterned and dyed cloth on the floor loom. Learning to use the computer for the designing of woven pattern is an expectation of the course. This course may be beneficial for fashion and interior designers, as well as anyone interested in the design and craft of weaving.

**Prerequisite:** Special approval.

**Schedule Type:** Studio

**Contact Hours:** 6 other

**Grade Mode:** Standard Letter

**ARTS 35400 FUNCTIONAL APPROACHES TO CLAY 3 Credit Hours**

(Repeatable for credit) Continuation of ARTS 25400 emphasizing functional approaches to clay using the potters wheel and a variety of hand-building techniques.

**Prerequisite:** ARTS 25400.

**Schedule Type:** Studio

**Contact Hours:** 6 other

**Grade Mode:** Standard Letter

**ARTS 35401 SCULPTURAL APPROACHES IN CLAY 3 Credit Hours**

(Repeatable for credit) Continuation of ARTS 25400 emphasizing sculptural approaches to clay. This course may include explorations in three-dimensional form, the human figure, mold making, multiples and installation.

**Prerequisite:** ARTS 25400.

**Schedule Type:** Studio

**Contact Hours:** 6 other

**Grade Mode:** Standard Letter

**ARTS 35602 FLAMEWORKED GLASS 3 Credit Hours**

An investigation of techniques, tools, equipment and materials involved in glass lampworking processes. The course covers basic melting, shaping and blowing with a glass frameworking torch. Students will learn to create larger sculptural objects from modular components through glass "networking" and will explore more technical frameworking processes to become familiarized with glass as a sculptural material.

**Prerequisite:** None.

**Schedule Type:** Studio

**Contact Hours:** 6 other

**Grade Mode:** Standard Letter

**ARTS 35603 GLASS BLOWING 3 Credit Hours**

(Repeatable for credit) Further exploration of glass blowing techniques. Design, form, color and execution will be emphasized.

**Prerequisite:** ARTS 25600.

**Schedule Type:** Studio

**Contact Hours:** 6 other

**Grade Mode:** Standard Letter

**ARTS 35604 SCULPTURAL AND KILN-FORMED GLASS 3 Credit Hours**

(Repeatable for credit) An overview and exploration of sculptural and kiln-formed glass techniques. Casting, pattern making, mold making and cold construction will be covered. Design, form, content and technical execution and understanding operations of equipment are emphasized.

**Prerequisite:** ARTS 25600.

**Schedule Type:** Studio

**Contact Hours:** 6 other

**Grade Mode:** Standard Letter

**ARTS 35700 JEWELRY CONCEPTS AND TECHNIQUES 3 Credit Hours**

An in-depth exploration of jewelry making techniques such as casting, stone setting, mechanisms and fabrication. Conceptual development and design skills are emphasized. To gain a deeper understanding of the subject, historical and contemporary works are viewed and discussed.

**Prerequisite:** ART 10023 and ART 10024 and ARTS 25700.

**Schedule Type:** Studio

**Contact Hours:** 6 other

**Grade Mode:** Standard Letter

**ARTS 35701 METALSMITHING CONCEPTS AND TECHNIQUES 3 Credit Hours**

Course offers an in-depth exploration of hammerworking techniques such as raising, forging and shell forming. Conceptual development and design skills are emphasized. To gain a deeper understanding of the subject, historical and contemporary works are viewed and discussed.

**Prerequisite:** ART 10023 and ART 10024 and ARTS 25700.

**Schedule Type:** Studio

**Contact Hours:** 6 other

**Grade Mode:** Standard Letter

**ARTS 35702 ENAMELING CONCEPTS AND TECHNIQUES 3 Credit Hours**

An in-depth exploration of vitreous enameling techniques on two-dimensional surfaces. Porcelain enamel on steel is introduced. Conceptual development and design skills are emphasized. To gain a deeper understanding of the subject, historical and contemporary works are viewed and discussed.

**Prerequisite:** ARTS 25700 and ARTS 35700.

**Schedule Type:** Studio

**Contact Hours:** 6 other

**Grade Mode:** Standard Letter

**ARTS 35703 TEXTILE TECHNIQUES IN METAL 3 Credit Hours**

Course applies textile techniques such as weaving, crocheting, knitting and basketry to create jewelry and objects in metal. Emphasis is on innovative approach to traditional processes.

**Prerequisite:** ARTS 25700.

**Schedule Type:** Studio

**Contact Hours:** 6 other

**Grade Mode:** Standard Letter

**ARTS 44002 ADVANCED DRAWING FOR ALL DISCIPLINES 3 Credit Hours**

(Repeatable for credit) (Slashed with ARTS 54002) An advanced drawing course, open to all studio disciplines, with an emphasis on students pursuing individually conceived problems in close consultation one-on-one with faculty.

**Prerequisite:** ART 30001; and ARTS 24001 or ARTS 24002.

**Schedule Type:** Studio

**Contact Hours:** 6 other

**Grade Mode:** Standard Letter

**ARTS 44010 ADVANCED FINE ART PHOTOGRAPHY 3 Credit Hours**

Combined studio/lecture course offering more advanced, conceptual approaches to the contemporary applications of photographic imaging for artists. Students work with larger scale printing formats, more involved research and greater depth of involvement with the photographic medium.

**Prerequisite:** ARTS 24010 and ART 30001.

**Schedule Type:** Studio

**Contact Hours:** 6 other

**Grade Mode:** Standard Letter

**ARTS 44011 DIGITAL FINE ART PHOTOGRAPHY 3 Credit Hours**

(Slashed with ARTS 54011) Students develop their technical and conceptual skills in fine art digital photography, and develop a contemporary approach to working with the medium. Students explore various photographic and digital techniques, and form an awareness of such techniques in contemporary photography.

**Prerequisite:** Minimum C grade in ART 10022.

**Schedule Type:** Studio

**Contact Hours:** 5 other

**Grade Mode:** Standard Letter

**ARTS 44040 PRINTMAKING: ADVANCED INTAGLIO 3 Credit Hours**

Continuation of ARTS 34040 with special emphasis on color and photographic techniques intaglio.

**Prerequisite:** ARTS 34040 and ART 30001.

**Schedule Type:** Studio

**Contact Hours:** 6 other

**Grade Mode:** Standard Letter

**ARTS 44041 SERIGRAPHY II 3 Credit Hours**

Continuation of ARTS 34041 emphasizing individually assigned projects.

**Prerequisite:** ARTS 34041 and ART 30001.

**Schedule Type:** Studio

**Contact Hours:** 6 other

**Grade Mode:** Standard Letter

**ARTS 44042 LITHOGRAPHY II 3 Credit Hours**

Advanced investigation of lithography. Introduction to advanced digital and photo-mechanical approaches, in addition to continuation of drawing on stones and plates with crayon, tusche and transfers. Emphasis on color printing and the development of a cohesive body of work in lithography.

**Prerequisite:** ARTS 34042 and ART 30001.

**Schedule Type:** Studio

**Contact Hours:** 6 other

**Grade Mode:** Standard Letter

**ARTS 44043 ADVANCED PRINTMAKING 3 Credit Hours**

(Repeatable for maximum 9 credit hours) Advanced printmaking course with emphasis on students producing new, individually conceived visual works in printmaking in close consultation with faculty. Written proposal by students required at registration.

**Prerequisite:** ART 30001; and two courses from the following:

ARTS 34040, ARTS 34041, ARTS 34042, ARTS 44040, ARTS 44041, ARTS 44042.

**Schedule Type:** Studio

**Contact Hours:** 6 other

**Grade Mode:** Standard Letter

**ARTS 44045 ART OF THE BOOK 3 Credit Hours**

(Slashed with ARTS 54045) An introduction to artist's books. A variety of binding methods and strategies for creating art through alternative and traditional book forms are introduced. Students complete projects and develop a personal visual language through the book form.

**Prerequisite:** Minimum C grade in ART 10022.

**Schedule Type:** Studio

**Contact Hours:** 6 other

**Grade Mode:** Standard Letter

**ARTS 44051 ADVANCED SCULPTURAL PRACTICE 3 Credit Hours**  
 (Repeatable for credit) Course is self-directed, in which students create a series of sculptural works in consultation with the instructor and through on-going student lead presentations, discussions and in-progress and final critiques. Emphasis is on a creating a body of work over the semester that is informed by and demonstrates an awareness of contemporary practice in terms of approaches to content, form and presentation. Students can work with in a variety of ways: object making, installation, site-based and/or time-based approaches. Research and writing are emphasized. Readings, slide presentations, discussions and critiques help provide context and vocabulary for student development.  
**Prerequisite:** ART 30001 and ARTS 24051; and ARTS 34051 or ARTS 34052 or ARTS 34053.  
**Schedule Type:** Studio  
**Contact Hours:** 6 other  
**Grade Mode:** Standard Letter

**ARTS 44060 ADVANCED PAINTING: PRACTICE AND THEORY 3 Credit Hours**  
 (Repeatable for credit) Advanced painting course with an emphasis on pursuing individually conceived problems in close consultation with faculty.  
**Prerequisite:** ART 30001; and ARTS 24060 or ARTS 34061; and ARTS 34060 or ARTS 34062 or ARTS 34063.  
**Schedule Type:** Studio  
**Contact Hours:** 6 other  
**Grade Mode:** Standard Letter

**ARTS 44070 DIGITAL FABRICATION IN STUDIO ART 3 Credit Hours**  
 (Slashed with ARTS 54070) This course is an introduction to digital fabrication technologies as they relate to a studio practice. Mastery of software skills enables one to better explore object-making as a medium of personal expression. In addition to technical skills, the course will introduce relationships between form, subject matter, and content. Projects will include technical and conceptual problem solving, design lessons, object making and short student lead initiatives to connect to maker spaces and industries that can support future making. Instructor facilitated discussions between students will form a community of mutual learning.  
**Prerequisite:** None.  
**Schedule Type:** Studio  
**Contact Hours:** 6 other  
**Grade Mode:** Standard Letter

**ARTS 44096 INDIVIDUAL STUDY: STUDIO ART 1-6 Credit Hours**  
 (Repeatable for credit) Additional study in area of student's choice in consultation with advisor.  
**Prerequisite:** ART 30001; and a major in Studio Art; and special approval.  
**Schedule Type:** Individual Investigation  
**Contact Hours:** 2-12 other  
**Grade Mode:** Standard Letter

**ARTS 44098 RESEARCH IN STUDIO ART (ELR) 1-3 Credit Hours**  
 (Repeatable for credit) Studio research in the visual arts.  
**Prerequisite:** Junior or senior standing.  
**Schedule Type:** Research  
**Contact Hours:** 3-9 other  
**Grade Mode:** Standard Letter-IP  
**Attributes:** Experiential Learning Requirement

**ARTS 44192 INTERNSHIP OR PRACTICUM IN STUDIO ART (ELR) 1-6 Credit Hours**  
 (Repeatable for credit) (Slashed with ARTS 54192) An undergraduate, experience-based learning activity carried out in a visual arts setting. Emphasis is on the goals of connecting ideas, concepts, and skills developed in coursework to applications in new or different contexts, demonstrating how this experience has broadened students' understanding of their discipline, and reflection on the significance of the experience.  
**Prerequisite:** A major in the School of Art; junior or senior standing; and special approval of faculty sponsor.  
**Schedule Type:** Practical Experience  
**Contact Hours:** 3-18 other  
**Grade Mode:** Standard Letter-IP  
**Attributes:** Experiential Learning Requirement

**ARTS 45080 KENT BLOSSOM ART 1-6 Credit Hours**  
 (Repeatable for credit) (Slashed with ARTS 55080) Studio exploration of selected concepts in studio art: painting; drawing; sculpture and expanded media; print media and photography; ceramics; glass; jewelry, metals and enameling; textiles. Content varies with each section offered.  
**Prerequisite:** Special approval.  
**Schedule Type:** Studio  
**Contact Hours:** 2-12 other  
**Grade Mode:** Standard Letter-IP

**ARTS 45092 FIELD EXPERIENCE: TRAVEL STUDY IN STUDIO ART (ELR) 1-3 Credit Hours**  
 (Repeatable for credit) (Slashed with ARTS 55092) Travel-based study and field experience in studio art disciplines at a site at or away from Kent State University.  
**Prerequisite:** Major in Studio Art; and special approval.  
**Schedule Type:** Field Experience  
**Contact Hours:** 3-9 other  
**Grade Mode:** Satisfactory/Unsatisfactory  
**Attributes:** Experiential Learning Requirement

**ARTS 45095 SPECIAL TOPICS: STUDIO ART 1-6 Credit Hours**  
 (Repeatable for credit) (Cross-listed with ARTS 55095) Specialized courses in studio art that focus on specific techniques and media.  
**Prerequisite:** Special approval.  
**Schedule Type:** Studio  
**Contact Hours:** 2-12 other  
**Grade Mode:** Standard Letter

**ARTS 45098 SENIOR THESIS RESEARCH AND PROPOSAL (ELR) 1 Credit Hour**  
 (Repeatable for credit) Preparatory course, which acts as an exploratory period for students to develop their ideas - conceptually, thematically and materially - through research, writing and physical material studies. Upon successful completion, students may continue with ARTS 45099.  
**Prerequisite:** Major in Studio Art; senior standing; and special approval.  
**Schedule Type:** Research  
**Contact Hours:** 1.6 other  
**Grade Mode:** Satisfactory/Unsatisfactory-IP  
**Attributes:** Experiential Learning Requirement



**ARTS 45099 SENIOR THESIS EXHIBITION (ELR) 3 Credit Hours**

The course prepares students for the challenges of a creative professional practice in their chosen discipline. As the culmination of undergraduate studies, the course serves as a capstone experience for students in their chosen concentration. Provides students an opportunity to independently develop and create a body of work for exhibition and oral review with faculty. Requires the completion of an undergraduate thesis and professional caliber photo documentation of the exhibition.

**Prerequisite:** ART 30001; and special approval.

**Schedule Type:** Project or Capstone

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter-IP

**Attributes:** Experiential Learning Requirement

**ARTS 45300 TEXTILES: JACQUARD WEAVING 3 Credit Hours**

(Repeatable for maximum 6 credit hours) (Slashed with ARTS 55300) Introduction to digital design and production of jacquard woven cloth on state-of-the-art TC1 hand looms. The use of Pointcarré®, a specialized weave software and Photoshop® provides a foundation of professional design knowledge for application in a studio or industry context. Historic and contemporary examples are studied as a foundation to enhance individual exploration of this distinctive woven language for art and design.

**Prerequisite:** ARTS 35350.

**Schedule Type:** Studio

**Contact Hours:** 6 other

**Grade Mode:** Standard Letter

**ARTS 45301 TEXTILES: ADVANCED STUDIO 3 Credit Hours**

Structured time for individual investigations in textiles. Emphasis on self-designed study. Bi-weekly presentations of contemporary work in textiles and weekly discussions or critiques with open studio.

**Prerequisite:** ART 30001; and special approval.

**Schedule Type:** Studio

**Contact Hours:** 6 other

**Grade Mode:** Standard Letter

**ARTS 45304 TEXTILES: PICTORIAL WEAVING 3 Credit Hours**

(Slashed with ARTS 55304) Introduction to a range of weaving processes traditionally associated with the creation of figured or pictorial cloth. Techniques such as warp painting, supplementary weft and warp, pick-up doubleweave and tapestry are explored as a means of creating a well-composed art cloth. Textile history is presented as an important resource for the development of woven studies and individually conceived projects.

**Prerequisite:** Special approval.

**Schedule Type:** Studio

**Contact Hours:** 6 other

**Grade Mode:** Standard Letter

**ARTS 45307 TEXTILES: WEAVING AND COLOR 3 Credit Hours**

(Slashed with ARTS 55307) This course will provide students with an opportunity to explore numerous techniques that emphasize the interaction of color in relation to the unique interlacement process of weaving. Use of different looms (including the floor and frame) will provide the means to integrate color with patterns and image in the connection of warp and weft. Immersion dyeing will be introduced along with specialized direct dye application methods.

**Prerequisite:** Special approval.

**Schedule Type:** Studio

**Contact Hours:** 6 other

**Grade Mode:** Standard Letter

**ARTS 45400 ADVANCED CERAMICS 3 Credit Hours**

(Repeatable for credit) Individual problems in ceramics.

**Prerequisite:** ART 30001, ARTS 35400 and ARTS 35401.

**Schedule Type:** Studio

**Contact Hours:** 6 other

**Grade Mode:** Standard Letter

**ARTS 45600 ADVANCED GLASS WORKING 3 Credit Hours**

(Repeatable for credit) Individual exploration of sculptural and hot glass techniques. Design, form, content and execution strongly emphasized. Introduction to studio facility design, construction and maintenance.

**Prerequisite:** ART 30001, ARTS 35603 and ARTS 35604.

**Schedule Type:** Studio

**Contact Hours:** 5 other

**Grade Mode:** Standard Letter

**ARTS 45700 DESIGN AND PRODUCTION 3 Credit Hours**

Course prepares students to enter the marketplace by examining production processes for creating multiples, industrial applications and marketing. Traditional rendering techniques are taught as a method for communicating with clientele in the custom design market. Design skills are emphasized.

**Prerequisite:** ARTS 35700 and ARTS 35701.

**Schedule Type:** Studio

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**ARTS 45701 TABLEWARE 3 Credit Hours**

Course explores forms made for the table such as flatware, serving sets and containers. Traditional and experimental approaches are examined.

**Prerequisite:** ART 30001, ARTS 35700 and ARTS 35701.

**Schedule Type:** Studio

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**ARTS 45702 ADVANCED ENAMELING 3 Credit Hours**

Course offers advanced vitreous enameling techniques on two- and three-dimensional surfaces. Conceptual development and design skills are emphasized. To gain a deeper understanding of the subject, historical and contemporary works are viewed and discussed.

**Prerequisite:** ART 30001 and ARTS 35702.

**Schedule Type:** Studio

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**ARTS 45704 ADVANCED STUDIO JEWELRY METALS ENAMELING 3 Credit Hours**

(Repeatable for maximum 9 credit hours) Course offers structured time for individual investigations in jewelry, metalsmithing and enameling. Emphasis on self-directed study with frequent critiques and technical demos as needed. Regular viewing and discussion of historical and contemporary works.

**Prerequisite:** ART 30001, ARTS 35700 and ARTS 35701; and senior standing.

**Schedule Type:** Studio

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter



**ARTS 45705 CAD FOR JEWELRY 3 Credit Hours**

(Slashed with ARTS 55705) Students develop a set of comprehensive computer-aided design (CAD) skills to be utilized in a variety of studies such as sculpture design, jewelry making and many others. CAD skills are developed through the investigation of laser cutting, 3D modeling and project planning, and 3D printing. Mastery of these techniques enable students to better explore object-making as a medium of personal expression. Although there are many technical components to learn, the instructor also focuses on the relationship between form, subject matter and content. Software covered in this class includes Rhinoceros (3D modeling), Flamingo (endering), Adobe Illustrator (vector drawing) and Cubify (3D printing).

**Prerequisite:** ART 30001; and ARTS 25700 or ARTS 25701.

**Schedule Type:** Studio

**Contact Hours:** 6 other

**Grade Mode:** Standard Letter

**ARTS 54002 ADVANCED DRAWING FOR ALL DISCIPLINES 3 Credit Hours**

(Repeatable for credit) (Slashed with ARTS 44002) An advanced drawing course, open to all studio disciplines, with an emphasis on students pursuing individually conceived problems in close consultation one-on-one with faculty.

**Prerequisite:** Graduate standing.

**Schedule Type:** Studio

**Contact Hours:** 6 other

**Grade Mode:** Standard Letter

**ARTS 54011 DIGITAL FINE ART PHOTOGRAPHY 3 Credit Hours**

(Slashed with ARTS 44011) Students develop their technical and conceptual skills in fine art digital photography, and develop a contemporary approach to working with the medium. Students explore various photographic and digital techniques and form an awareness of such techniques in contemporary photography.

**Prerequisite:** Graduate standing.

**Schedule Type:** Studio

**Contact Hours:** 5 other

**Grade Mode:** Standard Letter

**ARTS 54045 ART OF THE BOOK 3 Credit Hours**

(Slashed with ARTS 44045) An introduction to artist's books. A variety of binding methods and strategies for creating art through alternative and traditional book forms are introduced. Students complete projects and develop a personal visual language through the book form.

**Prerequisite:** Master of Arts degree or Master of Fine Arts degree in the School of Art.

**Schedule Type:** Studio

**Contact Hours:** 6 other

**Grade Mode:** Standard Letter

**ARTS 54070 DIGITAL FABRICATION IN STUDIO ART 3 Credit Hours**

(Slashed with ARTS 44070) This course is an introduction to digital fabrication technologies as they relate to a studio practice. Mastery of software skills enables one to better explore object-making as a medium of personal expression. In addition to technical skills, the course will introduce relationships between form, subject matter, and content. Projects will include technical and conceptual problem solving, design lessons, object making, and short student lead initiatives to connect to makerspaces and industries that can support future making. Instructor facilitated discussions between students will form a community of mutual learning.

**Prerequisite:** Graduate standing.

**Schedule Type:** Studio

**Contact Hours:** 6 other

**Grade Mode:** Standard Letter

**ARTS 54091 VARIABLE CONTENT SEMINAR: STUDIO ART 3 Credit Hours**

(Repeatable for maximum 9 credit hours) Contemporary issues related to visual arts explored through presentation, lecture and discussion. Guest speakers augment staff.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Seminar

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**ARTS 54192 INTERNSHIP OR PRACTICUM IN STUDIO ART 1-6 Credit Hours**

(Repeatable for credit) (Slashed with ARTS 44192) An undergraduate, experience-based learning activity carried out in a visual arts setting. Emphasis is on the goals of connecting ideas, concepts, and skills developed in coursework to applications in new or different contexts, demonstrating how this experience has broadened students' understanding of their discipline, and reflection on the significance of the experience.

**Prerequisite:** A major in the School of Art; and graduate standing; and special approval.

**Schedule Type:** Practical Experience

**Contact Hours:** 3-18 other

**Grade Mode:** Standard Letter-IP

**ARTS 55080 KENT BLOSSOM ART 1-6 Credit Hours**

(Repeatable for credit) (Slashed with ARTS 45080) Studio exploration in the visual arts, including ceramics, drawing, glass, jewelry-metals-enameling, painting, print media and photography, sculpture and expanded media and textiles.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Studio

**Contact Hours:** 2-12 other

**Grade Mode:** Standard Letter-IP

**ARTS 55092 FIELD EXPERIENCE: TRAVEL STUDIES IN STUDIO ART 1-3 Credit Hours**

(Repeatable for credit) (Cross-listed with ARTS 45092) Travel-based field study experience in studio art disciplines to and at a site or sites away from Kent State University.

**Prerequisite:** Major in Studio Art; and graduate standing; and special approval.

**Schedule Type:** Field Experience

**Contact Hours:** 3-9 other

**Grade Mode:** Satisfactory/Unsatisfactory

**ARTS 55095 STUDIO ART: SPECIAL TOPICS 1-6 Credit Hours**

(Repeatable for credit) (Cross-listed with ARTS 45095) Specialized courses in studio art that focus on specific techniques and media.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Studio

**Contact Hours:** 2-12 other

**Grade Mode:** Standard Letter

**ARTS 55300 TEXTILES: JACQUARD WEAVING 3 Credit Hours**

(Repeatable for maximum 6 credit hours) (Slashed with ARTS 45300) Introduction to digital design and production of jacquard woven cloth on state-of-the-art TC1 hand looms. The use of Pointcarré®, a specialized weave software and Photoshop® provides a foundation of professional design knowledge for application in a studio or industry context. Historic and contemporary examples are studied as a foundation to enhance individual exploration of this distinctive woven language for art and design.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Studio

**Contact Hours:** 6 other

**Grade Mode:** Standard Letter

**ARTS 55304 TEXTILES: PICTORIAL WEAVING 3 Credit Hours**

(Slashed with ARTS 45304) Introduction to a range of weaving processes traditionally associated with the creation of figured or pictorial cloth. Techniques such as warp painting, supplementary weft and warp, pick-up doubleweave and tapestry are explored as a means of creating a well-composed art cloth. Textile history is presented as an important resource for the development of woven studies and individually conceived projects.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Studio

**Contact Hours:** 6 other

**Grade Mode:** Standard Letter

**ARTS 55307 TEXTILES: WEAVING AND COLOR 3 Credit Hours**

(Slashed with ARTS 45307) This course will provide students with an opportunity to explore numerous techniques that emphasize the interaction of color in relation to the unique interlacement process of weaving. The use of different looms (including the floor and frame) will provide the means to integrate color with patterns and image in the connection of warp and weft. Immersion dyeing will be introduced along with specialized direct dye application, methods.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Studio

**Contact Hours:** 6 other

**Grade Mode:** Standard Letter

**ARTS 55705 CAD FOR JEWELRY 3 Credit Hours**

(Slashed with ARTS 45705) Students develop a set of comprehensive computer-aided design (CAD) skills to be utilized in a variety of studies such as sculpture design, jewelry making and many others. CAD skills are developed through the investigation of laser cutting, 3D modeling and project planning, and 3D printing. Mastery of these techniques enable students to better explore object-making as a medium of personal expression. Although there are many technical components to learn, the instructor also focuses on the relationship between form, subject matter and content. Software covered in this class includes Rhinoceros (3D modeling), Flamingo (endering), Adobe Illustrator (vector drawing) and Cubify (3D printing).

**Prerequisite:** Graduate standing.

**Schedule Type:** Studio

**Contact Hours:** 6 other

**Grade Mode:** Standard Letter

**ARTS 64000 GRADUATE SEMINAR I: STUDIO ART 3 Credit Hours**

(Repeatable for credit) This graduate seminar intends to bring together graduate students working across disciplines to facilitate their participation in creating a framework for understanding the practice of art-making in relation to the contemporary global and cultural terrain.

**Prerequisite:** Graduate standing.

**Schedule Type:** Seminar

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ARTS 64001 GRADUATE SEMINAR II: STUDIO ART 3 Credit Hours**

(Repeatable for credit) This graduate seminar is an advanced course which intends to bring together graduate students working across disciplines to facilitate their participation in creating a framework for understanding the practice of art-making in relation to the contemporary global and cultural terrain.

**Prerequisite:** ARTS 64000; and graduate standing.

**Schedule Type:** Seminar

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ARTS 64040 GRADUATE STUDIO: PRINT MEDIA AND PHOTOGRAPHY I****1-9 Credit Hours**

(Repeatable for credit) Research-based, hands-on studio course providing a context for individual creative projects in the Print Media and Photography concentration.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Studio

**Contact Hours:** 2-18 other

**Grade Mode:** Standard Letter-IP

**ARTS 64041 GRADUATE STUDIO: PRINT MEDIA AND PHOTOGRAPHY II****1-9 Credit Hours**

(Repeatable for credit) Advance research-based, hands-on studio course providing a context for individual creative projects in the Print Media and Photography concentration.

**Prerequisite:** ARTS 64040; and graduate standing.

**Schedule Type:** Studio

**Contact Hours:** 2-18 other

**Grade Mode:** Standard Letter-IP

**ARTS 64050 GRADUATE STUDIO: SCULPTURE AND EXPANDED MEDIA****I 1-9 Credit Hours**

(Repeatable for credit) Research-based, hands-on studio course providing a context for individual creative projects in the Sculpture and Expanded Media concentration.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Studio

**Contact Hours:** 2-18 other

**Grade Mode:** Standard Letter-IP

**ARTS 64051 GRADUATE STUDIO: SCULPTURE AND EXPANDED MEDIA****II 1-9 Credit Hours**

(Repeatable for credit) Advanced research-based, hands-on studio course providing a context for individual creative projects in the Sculpture and Expanded Media concentration.

**Prerequisite:** ARTS 64050; and graduate standing.

**Schedule Type:** Studio

**Contact Hours:** 2-18 other

**Grade Mode:** Standard Letter-IP

**ARTS 64060 GRADUATE STUDIO: DRAWING AND PAINTING I 1-9 Credit Hours**

(Repeatable for credit) Research-based, hands-on studio course providing a context for individual creative projects in the Drawing and Painting concentration.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Studio

**Contact Hours:** 2-18 other

**Grade Mode:** Standard Letter-IP

**ARTS 64061 GRADUATE STUDIO: DRAWING AND PAINTING II 1-9 Credit Hours**

(Repeatable for credit) Advanced research-based, hands-on studio course providing a context for individual creative projects in the Drawing or Painting concentration.

**Prerequisite:** ARTS 64060; and graduate standing.

**Schedule Type:** Studio

**Contact Hours:** 2-18 other

**Grade Mode:** Standard Letter-IP

**ARTS 64096 INDIVIDUAL INVESTIGATION STUDIO ART 1-3 Credit Hours**

(Repeatable for credit) Independent study in studio art.

**Prerequisite:** Master of Art or Master of Fine Arts degree in the School of Art; and graduate standing; and special approval.

**Schedule Type:** Individual Investigation

**Contact Hours:** 3-9 other

**Grade Mode:** Standard Letter-IP

**ARTS 64098 RESEARCH IN STUDIO ART 1-15 Credit Hours**

(Repeatable for credit) Studio research in the visual arts.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Research

**Contact Hours:** 1-15 other

**Grade Mode:** Standard Letter

**ARTS 65095 STUDIO ART: ADVANCED SPECIAL TOPICS 1-6 Credit Hours**

(Repeatable for credit) Advanced specialized courses in studio art that focus on specific techniques and media.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Studio

**Contact Hours:** 2-12 other

**Grade Mode:** Standard Letter

**ARTS 65300 GRADUATE STUDIO: TEXTILES I 1-9 Credit Hours**

(Repeatable for credit) Research-based, hands-on studio course providing a context for individual creative projects in the Textiles concentration.

**Prerequisite:** Graduate standing.

**Schedule Type:** Studio

**Contact Hours:** 2-18 other

**Grade Mode:** Standard Letter-IP

**ARTS 65301 GRADUATE STUDIO: TEXTILES II 1-9 Credit Hours**

(Repeatable for credit) Advanced research-based, hands-on studio course providing a context for individual creative projects and cultivating a personal direction in the Textiles concentration.

**Prerequisite:** ARTS 65300; and graduate standing; and special approval.

**Schedule Type:** Studio

**Contact Hours:** 2-18 other

**Grade Mode:** Standard Letter-IP

**ARTS 65400 GRADUATE STUDIO: CERAMICS I 1-9 Credit Hours**

(Repeatable for credit) Research-based, hands-on studio course providing a context for individual creative projects in the Ceramics concentration.

**Prerequisite:** Graduate standing.

**Schedule Type:** Studio

**Contact Hours:** 2-18 other

**Grade Mode:** Standard Letter-IP

**ARTS 65401 GRADUATE STUDIO: CERAMICS II 1-9 Credit Hours**

(Repeatable) Advanced research-based, hands-on studio course providing a context for individual creative projects and cultivating a personal direction in the Ceramics concentration.

**Prerequisite:** ARTS 65400; and graduate standing; and special approval.

**Schedule Type:** Studio

**Contact Hours:** 2-18 other

**Grade Mode:** Standard Letter-IP

**ARTS 65600 GRADUATE STUDIO: GLASS I 1-9 Credit Hours**

(Repeatable for credit) Research-based, hands-on studio course providing a context for individual creative projects in the Glass concentration.

**Prerequisite:** Graduate standing.

**Schedule Type:** Studio

**Contact Hours:** 2-18 other

**Grade Mode:** Standard Letter-IP

**ARTS 65601 GRADUATE STUDIO: GLASS II 1-9 Credit Hours**

(Repeatable for credit) Advanced research-based, hands-on studio course providing a context for individual creative projects and cultivating a personal direction in the Glass concentration.

**Prerequisite:** ARTS 65600; and graduate standing; and special approval.

**Schedule Type:** Studio

**Contact Hours:** 2-18 other

**Grade Mode:** Standard Letter-IP

**ARTS 65700 GRADUATE STUDIO: JEWELRY, METALS, ENAMELING I 1-9 Credit Hours**

(Repeatable for credit) Advanced research-based, hands-on studio course providing a context for individual creative projects and cultivating a personal direction in the Jewelry, Metals, Enameling concentration.

**Prerequisite:** Graduate standing.

**Schedule Type:** Studio

**Contact Hours:** 2-18 other

**Grade Mode:** Standard Letter-IP

**ARTS 65701 GRADUATE STUDIO: JEWELRY, METALS, ENAMELING II 1-9 Credit Hours**

(Repeatable for credit) Advanced research-based, hands-on studio course providing a context for individual creative projects and cultivating a personal direction in the Jewelry, Metals, Enameling concentration.

**Prerequisite:** ARTS 65700; and graduate standing.

**Schedule Type:** Studio

**Contact Hours:** 2-18 other

**Grade Mode:** Standard Letter-IP

**ARTS 65991 SEMINAR IN STUDIO ART 1-3 Credit Hours**

(Repeatable for credit) Contemporary issues and professional concerns in studio art explored through presentations, lectures, and discussion.

Graduate faculty and guest speakers.

**Prerequisite:** Graduate standing.

**Schedule Type:** Seminar

**Contact Hours:** 1-3 other

**Grade Mode:** Standard Letter

## Accessories - Minor

College of the Arts

School of Art  
241 Center for the Visual Arts  
Kent Campus  
330-672-2192  
artinfo@kent.edu  
www.kent.edu/art

## Description

The Accessories minor gives students an opportunity to focus on the design and production of innovative and unique objects within the studio areas of jewelry, metals and textiles, which leads to the development of functional, decorative and wearable forms.

### Fully Offered At:

- Kent Campus

## Admission Requirements

Admission to a minor is open to students declared in a bachelor's degree, the A.A.B. or A.A.S. degree or the A.T.S. degree (not Individualized Program major). Students declared only in the A.A. or A.S. degree or the A.T.S. degree in Individualized Program may not declare a minor. Students may not pursue a minor and a major in the same discipline.

## Minor Requirements

Code	Title	Credit Hours
<b>Minor Requirements</b>		
ARTS 25701	INTRODUCTION TO JEWELRY/METALS FOR NON-ART MAJORS	3
Jewelry and Metals Electives, choose from the following:		
ARTS 35700	JEWELRY CONCEPTS AND TECHNIQUES	6
ARTS 35702	ENAMELING CONCEPTS AND TECHNIQUES	
ARTS 35703	TEXTILE TECHNIQUES IN METAL	
ARTS 45700	DESIGN AND PRODUCTION	
ARTS 45702	ADVANCED ENAMELING	
ARTS 45080	KENT BLOSSOM ART <sup>1</sup>	
ARTS 45095	STUDIO ART: SPECIAL TOPICS <sup>1</sup>	
Textile Art Electives, choose from the following:		
ARTS 25300	TEXTILES: PATTERN	9
ARTS 35300	TEXTILES: DIMENSIONAL	
ARTS 35301	TEXTILES: PRINT PATTERN	
ARTS 35302	TEXTILES: FELTMAKING	
ARTS 35305	TEXTILES: ACCESSORIES - DESIGN AND PRODUCTION	
ARTS 35306	TEXTILES: SURFACE COLOR AND DESIGN	
ARTS 35350	TEXTILES: DESIGN AND PRODUCTION	
ARTS 45300	TEXTILES: JACQUARD WEAVING	
ARTS 45304	TEXTILES: PICTORIAL WEAVING	
ARTS 45307	TEXTILES: WEAVING AND COLOR	
ARTS 45080	KENT BLOSSOM ART <sup>1</sup>	
ARTS 45095	STUDIO ART: SPECIAL TOPICS <sup>1</sup>	
Minimum Total Credit Hours:		18

<sup>1</sup> May be used with approval from a faculty or academic advisor.

## Graduation Requirements

Minimum Minor GPA	Minimum Overall GPA
2.000	2.000

- Minimum 6 credit hours in the minor must be upper-division coursework (30000 and 40000 level).
- Minimum 6 credit hours in the minor must be outside of the course requirements for any major or other minor the student is pursuing.
- Minimum 50 percent of the total credit hours for the minor must be taken at Kent State (in residence).

## Art Education - B.A.

**College of the Arts**  
School of Art  
241 Center for the Visual Arts  
Kent Campus  
330-672-2192  
artinfo@kent.edu  
www.kent.edu/art

## Description

The Bachelor of Arts degree in Art Education prepares students to effectively teach visual art by applying a learner-centered pedagogy to embrace the many dimensions of human intelligence and aesthetic education.

Art educators understand child development to successfully engage learners in the complete artistic process of thinking—perceptual, imaginative, formative, expressive and communicative—by combining a range of subject matter, symbols and ideas. They organize and evaluate teaching activities for creating and analyzing works of art and design from contemporary and past cultures. This involves using a variety of media, technology and community resources, making connections between visual art and other disciplines, as well as assessing the learning outcomes of their students.

In addition, art educators are prepared to meet the needs of all students with an understanding of the value of diversity. They create safe and equitable learning environments in which to nurture life-long skills in problem-solving, critical thinking, collaboration, creativity and constructing meaning.

Graduates of the degree program will be eligible to be certified for pre-K-12 visual art teacher licensure

Study Abroad/Away Opportunities:

- Travel opportunities to New York, London, Paris and China
- Study abroad through Kent State's Florence program in Florence, Italy (full semester or summer art and design experience)
- Ohio Art Education Association and National Art Education Association Travel Studies

### Fully Offered At:

- Kent Campus

## Accreditation

National Association of Schools of Art and Design (NASAD).

## Admission Requirements

The university affirmatively strives to provide educational opportunities and access to students with varied backgrounds, those with special talents and adult students who graduated from high school three or more years ago.

**Freshman Students on the Kent Campus:** The freshman admission policy on the Kent Campus is selective. Admission decisions are based upon the following: cumulative grade point average, ACT and/or SAT scores, strength of high school college preparatory curriculum and grade trends. The Admissions Office at the Kent Campus may defer the admission of students who do not meet admissions criteria but who demonstrate areas of promise for successful college study. Deferred applicants may begin their college coursework at one of seven regional campuses of Kent State University. For more information on admissions, including additional requirements for some academic programs, visit the admissions website for new freshmen.

**Freshman Students on the Regional Campuses:** Kent State campuses at Ashtabula, East Liverpool, Geauga, Salem, Stark, Trumbull and Tuscarawas, as well as the Regional Academic Center in Twinsburg, have open enrollment admission for students who hold a high school diploma, GED or equivalent.

**English Language Proficiency Requirements for International Students:** All international students must provide proof of English language proficiency (unless they meet specific exceptions) by earning a minimum 525 TOEFL score (71 on the Internet-based version), minimum 75 MELAB score, minimum 6.0 IELTS score or minimum 48 PTE score, or by completing the ESL level 112 Intensive Program. For more information on international admission, visit the Office of Global Education's admission website.

**Transfer, Transitioning and Former Students:** For more information about admission criteria for transfer, transitioning and former students, please visit the admissions website.

## Program Learning Outcomes

Graduates of the program will be able to:

1. Articulate their beliefs about art education and defend their position, as well as demonstrate in-depth engagement in issues of the field
2. Research, plan, conduct and assess art experiences for preK-12 grade students, grounded in the National and Ohio Visual Art standards
3. Examine and learn from observed student and teacher behaviors to understand effective teaching practices
4. Comprehend the visual stages of development as they relate to mental, social, emotional and physical development of children in order to plan appropriate lesson instruction
5. Develop and articulate knowledge of various theories related to teaching artmaking, art criticism, art history and aesthetics, as well as theories related to instructional and interdisciplinary practices
6. Apply principles of classroom management, safety practices and motivational techniques in teaching
7. Organize and manage the time, space and resources of an instructional setting for teaching art
8. Learn to use community resources, such as museums and community artists, and make connections between communal needs, the learner and the art education curriculum
9. Effectively plan and install art exhibits
10. Competently use materials and media to communicate visually
11. Effectively communicate verbally and through writing their ideas of art education in relation to contemporary art education theory and the application of those ideas in art classrooms
12. Become advocates for the field of art education
13. Develop an understanding of their communal, national and global identities, in the context of the personal as well as professional as educators
14. Create and teach appropriate art curricula that meet the cultural, emotional, academic, physical, sensory and behavioral needs of students
15. Understand the significance of and apply curricula that promote appreciation and critical understanding of diversity, inclusivity and interdisciplinarity
16. Learn about career planning and related professional issues, such as national assessments, unions, professional development possibilities, graduate studies and life-long learning
17. Continue to reflect critically on their teaching practices
18. Be prepared in professional responsibilities as a member of the art education community
19. Adapt their curriculum accordingly
20. Use technology in an ethical, critical and creative manner as a means to acquire, provide, organize and communicate knowledge

## University Requirements

All students in a bachelor's degree program at Kent State University must complete the following university requirements for graduation.

**NOTE:** University requirements may be fulfilled in this program by specific course requirements. Please see Program Requirements for details.

Destination Kent State: First Year Experience	1
Course is not required for students with 25 transfer credits, excluding College Credit Plus, or age 21+ at time of admission.	
Diversity Domestic/Global (DIVD/DIVG)	2 courses
Students must successfully complete one domestic and one global course, of which one must be from the Kent Core.	
Experiential Learning Requirement (ELR)	varies
Students must successfully complete one course or approved experience.	
Kent Core (see table below)	36-37
Writing-Intensive Course (WIC)	1 course
Students must earn a minimum C grade in the course.	
Upper-Division Requirement	39 (or 42)
Students must successfully complete 39 upper-division (numbered 30000 to 49999) credit hours to graduate. Students in a B.A. and/or B.S. degree in the College of Arts and Sciences must complete 42 upper-division credit hours.	
Total Credit Hour Requirement	120
Some bachelor's degrees require students to complete more than 120 credit hours.	



## Kent Core Requirements

Kent Core Composition (KCOMP)	6
Kent Core Mathematics and Critical Reasoning (KMCR)	3
Kent Core Humanities and Fine Arts (KHUM/KFA) (min one course each)	9
Kent Core Social Sciences (KSS) (must be from two disciplines)	6
Kent Core Basic Sciences (KBS/KLAB) (must include one laboratory)	6-7
Kent Core Additional (KADL)	6
<b>Total Credit Hours:</b>	<b>36-37</b>

## Program Requirements

### Major Requirements

Code	Title	Credit Hours
<b>Major Requirements (courses count in major GPA) (min C grade required in all courses)</b>		
ART 10022	2D COMPOSITION	3
ART 10023	3D COMPOSITION	3
ART 10024	DIGITAL MEDIA	3
ARTE 31001	ART EDUCATION: FOUNDATIONS AND CONCEPTS ELEMENTARY	3
ARTE 31092	ART EDUCATION :TEACHING PRACTICUM (ELR)	3
ARTE 41002	ART EDUCATION: FOUNDATIONS AND CONCEPTS - SECONDARY (ELR)	3
ARTE 41004	PRE-KINDERGARTEN-12 DESIGN EDUCATION	3
ARTE 41009	ART EDUCATION MAJOR REVIEW	1
ARTE 41192	ART EDUCATION: FIELD EXPERIENCE (ELR) (WIC)	3
ARTE 41525	ART EDUCATION:INQUIRY INTO PROFESSIONAL PRACTICE	3
ARTE 41592	ART EDUCATION:STUDENT TEACHING AND SEMINAR (ELR)	9
ARTH 22006	ART HISTORY: ANCIENT AND MEDIEVAL ART (KFA)	3
ARTH 22007	ART HISTORY: RENAISSANCE TO MODERN ART (KFA)	3
ARTH 32066	LATE MODERN ART	3
ARTS 14000	DRAWING I	3
ARTS 14001	DRAWING II	3
ARTS 24040	PRINTMAKING I	3
ARTS 24010	INTRODUCTION TO FINE ART PHOTOGRAPHY	3
or ARTS 44011	DIGITAL FINE ART PHOTOGRAPHY	
ARTS 24061	INTRODUCTION TO PAINTING	3
ARTS 25400	CERAMICS I	3
ARTS 34061	INTERMEDIATE PAINTING	3
Art (ART), Art Education (ARTE), Art History (ARTH) or Studio Art (ARTS) Elective		3
Art (ART), Art Education (ARTE), Art History (ARTH) or Studio Art (ARTS) Upper-Division Elective (30000 or 40000 level)		3
Art History (ARTH) Upper-Division Elective (30000 or 40000 level)		3
<b>Additional Requirements (courses do not count in major GPA)</b>		
CI 47330	READING AND WRITING IN ADOLESCENCE/ADULTHOOD	3
COMM 15000	INTRODUCTION TO HUMAN COMMUNICATION (KADL)	3
CULT 29535	EDUCATION IN A DEMOCRATIC SOCIETY	3

EPSY 29525	EDUCATIONAL PSYCHOLOGY	3
ETEC 39525	EDUCATIONAL TECHNOLOGY	3
PSYC 11762	GENERAL PSYCHOLOGY (DIVD) (KSS)	3
SPED 23000	INTRODUCTION TO EXCEPTIONALITIES (DIVD)	3
UC 10097	DESTINATION KENT STATE: FIRST YEAR EXPERIENCE	1
Kent Core Composition (min C grade)		6
Kent Core Mathematics and Critical Reasoning		3
Kent Core Humanities		3
Kent Core Social Sciences (must be from two disciplines)		3
Kent Core Basic Sciences (must include one laboratory)		6-7
Kent Core Additional		3
Minimum Total Credit Hours:		122

### Progression requirements

Students must meet all professional requirements for admission to advanced study.

- Upon entry to this program, student must make an appointment to see an academic advisor to discuss application for advanced study.
- A 2.500 overall GPA and a 2.500 major GPA are necessary for admission to advanced study, student teaching and graduation in this program.
- Successful completion of the Ohio Assessments for Educators (OAE) are not required for graduation, but are required for licensure.

### Graduation Requirements

Minimum Major GPA	Minimum Overall GPA
2.500	2.500

- Students must receive a rating of "satisfactory" on selected works exhibited during their portfolio review
- ARTH 12001 is designed for non-art majors, and will not fulfill major requirements for art majors.

### Licensure Information

Candidates seeking Ohio licensure are required to pass specific assessments in order to apply for licensure. See Ohio Department of Education-Educator Preparation website for more information on assessments specific to licensure type. Taking and passing the licensure tests prior to graduation is encouraged but not required.

## Roadmap

This roadmap is a recommended semester-by-semester plan of study for this major. However, courses designated as critical (!) must be completed in the semester listed to ensure a timely graduation.

Semester One		Credits
ART 10022	2D COMPOSITION	3
ARTS 14000	DRAWING I	3
UC 10097	DESTINATION KENT STATE: FIRST YEAR EXPERIENCE	1
Kent Core Requirement		3
Kent Core Requirement		3
Kent Core Requirement		3
Credit Hours		16
Semester Two		Credits
ART 10023	3D COMPOSITION	3
ARTS 14001	DRAWING II	3
ARTH 22006	ART HISTORY: ANCIENT AND MEDIEVAL ART (KFA)	3
CULT 29535	EDUCATION IN A DEMOCRATIC SOCIETY	3
Kent Core Requirement		3
Credit Hours		15
Semester Three		Credits
Required: minimum 2.500 GPA		
! ARTE 31001	ART EDUCATION: FOUNDATIONS AND CONCEPTS ELEMENTARY	3
ARTS 24061	INTRODUCTION TO PAINTING	3
ARTS 25400	CERAMICS I	3
COMM 15000	INTRODUCTION TO HUMAN COMMUNICATION (KADL)	3
PSYC 11762	GENERAL PSYCHOLOGY (DIVD) (KSS)	3
Kent Core Requirement		3
Credit Hours		18
Semester Four		Credits
Required: minimum 2.500 GPA		
ART 10024	DIGITAL MEDIA	3
ARTE 31092	ART EDUCATION :TEACHING PRACTICUM (ELR)	3
ARTE 41004	PRE-KINDERGARTEN-12 DESIGN EDUCATION	3
ARTH 22007	ART HISTORY: RENAISSANCE TO MODERN ART (KFA)	3
SPED 23000	INTRODUCTION TO EXCEPTIONALITIES (DIVD)	3
Credit Hours		15
Semester Five		Credits
Required: minimum 2.500 GPA		
! ARTE 41002	ART EDUCATION: FOUNDATIONS AND CONCEPTS - SECONDARY (ELR)	3
ARTS 24010 or ARTS 44011	INTRODUCTION TO FINE ART PHOTOGRAPHY or DIGITAL FINE ART PHOTOGRAPHY	3
ARTS 24040	PRINTMAKING I	3
EPSY 29525	EDUCATIONAL PSYCHOLOGY	3
Kent Core Requirement		3
Credit Hours		15
Semester Six		Credits
Required: minimum 2.500 GPA and admission to advanced study		
ARTS 34061	INTERMEDIATE PAINTING	3
! CI 47330	READING AND WRITING IN ADOLESCENCE/ADULTHOOD	3

ETEC 39525	EDUCATIONAL TECHNOLOGY	3
Art (ART), Art Education (ARTE), Art History (ARTH) or Studio Art (ARTS) Elective		3
Kent Core Requirement		3
Credit Hours		15
Semester Seven		Credits
Required: minimum 2.500 GPA		
! ARTE 41009	ART EDUCATION MAJOR REVIEW	1
! ARTE 41192	ART EDUCATION: FIELD EXPERIENCE (ELR) (WIC)	3
ARTH 32066	LATE MODERN ART	3
Art (ART), Art Education (ARTE), Art History (ARTH) or Studio Art (ARTS) Upper-Division Elective (30000 or 40000 level)		3
Art History (ARTH) Upper-Division Elective (30000 or 40000 level)		3
Kent Core Requirement		3
Credit Hours		16
Semester Eight		Credits
Required: minimum 2.500 GPA		
! ARTE 41525	ART EDUCATION:INQUIRY INTO PROFESSIONAL PRACTICE	3
ARTE 41592	ART EDUCATION:STUDENT TEACHING AND SEMINAR (ELR)	9
Credit Hours		12
Minimum Total Credit Hours:		122

## Art Education - M.A.

### College of the Arts

School of Art  
241 Center for the Visual Arts  
Kent Campus  
330-672-2192  
artinfo@kent.edu  
www.kent.edu/art

## Description

The Master of Arts degree in Art Education provides opportunities for those with a background in art education to develop a focused competence in the visual arts, as well as an intellectual understanding of the history and current issues of the field of art education. Students study quantitative and qualitative approaches to research.

The Art Education major includes the following optional concentration:

- The **Non-Thesis Option** concentration is available for students who chose to complete a master's project, instead of a thesis, as the culminating requirement.

### Fully Offered At:

- Online
- Kent Campus

## Accreditation

National Association of Schools of Art and Design (NASAD)

## Admission Requirements

- Bachelor's degree from an accredited college or university for unconditional admission<sup>1</sup>
- Minimum 3.000 undergraduate GPA on a 4.000 point scale for unconditional admission
- Official transcript(s)
- Résumé or curriculum vitae
- Goal statement that focuses on the philosophy of art education
- Portfolio
- Three letters of recommendation
- English language proficiency - all international students must provide proof of English language proficiency (unless they meet specific exceptions) by earning one of the following:
  - Minimum 550 TOEFL PBT score (paper-based version)
  - Minimum 79 TOEFL IBT score (Internet-based version)
  - Minimum 77 MELAB score
  - Minimum 6.5 IELTS score
  - Minimum 58 PTE score
  - Minimum 110 Duolingo test score

For more information about graduate admissions, please visit the Graduate Studies admission website. For more information on international admission, visit the Office of Global Education's admission website.

- <sup>1</sup> Preference is given to the applicant holding a B.A., B.F.A. or B.S. degree in Art Education.

## Program Learning Outcomes

Graduates of the program will be able to:

1. Understand the breadth of theoretical, philosophical, historical and practical issues in art education.
2. Articulate how a plethora of issues is inherent in the field and constructed within wider frameworks of culture and society.
3. Understand the purposes, functions and value of teaching art in PreK-12 art and other educational contexts.
4. Understand and refine application of art education and education research methodology, methods and procedures.
5. Demonstrate advanced comprehension of self-identified particular topics through detailed research investigation.

## Program Requirements

### Major Requirements

Code	Title	Credit Hours
<b>Major Requirements</b>		
ARTE 51004	PRE-KINDERGARTEN-12 DESIGN EDUCATION	3
ARTE 61101	RESEARCH SEMINAR IN ART EDUCATION <sup>1</sup>	3
ARTE 61191	SEMINAR IN ART EDUCATION I <sup>1</sup>	3
ARTE 61209	CANDIDACY REVIEW EXAMINATION:ART EDUCATION	1
ARTE 61291	SEMINAR IN ART EDUCATION II <sup>1</sup>	3
Art History (ARTH) Electives		6
Studio Art (ARTS) Electives		9
<b>Non-Thesis or Thesis Requirement</b>		

Choose from the following:	6
Non-Thesis Option Concentration	
Thesis Option	

Minimum Total Credit Hours: 34

### Non-Thesis Option Concentration

Code	Title	Credit Hours
<b>Concentration Requirements</b>		
ARTE 61380	MASTER'S RESEARCH SEMINAR	2
ARTE 61398	MASTER'S PROJECT RESEARCH <sup>3</sup>	1
Elective <sup>4</sup>		3
Minimum Total Credit Hours:		6

### Thesis Option

Code	Title	Credit Hours
<b>Major Requirements</b>		
ART 67199	M.A.THESIS I <sup>1</sup>	6
Minimum Total Credit Hours:		6

- <sup>1</sup> Students must complete ARTE 61101, ARTE 61191 and ARTE 61291 and 3-5 credit hours in other program requirements before scheduling the candidacy examination.

- <sup>2</sup> The thesis is a significant project or body of work done independently of other coursework. Students are expected to demonstrate the ability to conduct research or produce a significant, original project in a discriminating and disciplined manner. The thesis topic should be one that will further the student's knowledge and ability in the specialty by demonstrating skill as a researcher. The outcome should be an effort that serves as a foundation for the pursuit of independent work when the graduate program is completed. At this stage, students are expected to work in close consultation with their thesis advisor.

- <sup>3</sup> The non-thesis option is appropriate for students in contexts in which research can be completed on their own practice, in most cases in their own art classrooms or other educational venues. The master's project involves research, which focuses on participant/researcher studies in curriculum, classroom settings, grant implementation and/or community-based projects. Students articulate and refine knowledge, reflective practice (including critical self-reflection) and develop goals to improve practice or further understanding of phenomena within the field of art education.

- <sup>4</sup> Students select an elective course in consultation with their program advisor.

## Art History - B.A.

### College of the Arts

School of Art

241 Center for the Visual Arts

Kent Campus

330-672-2192

artinfo@kent.edu

www.kent.edu/art

## Description

The Bachelor of Arts in Art History provides students with a substantive and comprehensive foundation of knowledge and an understanding of the major achievements in the history of art. It fosters visual analytical skills, critical thinking, creative problem-solving and research development and writing competencies, which prepare students for further graduate study as well as lifelong appreciation of and advocacy for the arts.

Study Abroad/Study Away Opportunities:

- Travel to: New York, Washington DC, London and Paris, and China
- Study Abroad in Florence, Italy; Semester in Italy or the Florence Summer Institute

## Fully Offered At:

- Kent Campus

## Accreditation

National Association of Schools of Art and Design (NASAD).

## Admission Requirements

The university affirmatively strives to provide educational opportunities and access to students with varied backgrounds, those with special talents and adult students who graduated from high school three or more years ago.

**Freshman Students on the Kent Campus:** The freshman admission policy on the Kent Campus is selective. Admission decisions are based upon the following: cumulative grade point average, ACT and/or SAT scores, strength of high school college preparatory curriculum and grade trends. The Admissions Office at the Kent Campus may defer the admission of students who do not meet admissions criteria but who demonstrate areas of promise for successful college study. Deferred applicants may begin their college coursework at one of seven regional campuses of Kent State University. For more information on admissions, including additional requirements for some academic programs, visit the admissions website for new freshmen.

**Freshman Students on the Regional Campuses:** Kent State campuses at Ashtabula, East Liverpool, Geauga, Salem, Stark, Trumbull and Tuscarawas, as well as the Regional Academic Center in Twinsburg, have open enrollment admission for students who hold a high school diploma, GED or equivalent.

**English Language Proficiency Requirements for International Students:** All international students must provide proof of English language proficiency (unless they meet specific exceptions) by earning a minimum 525 TOEFL score (71 on the Internet-based version), minimum 75 MELAB score, minimum 6.0 IELTS score or minimum 48 PTE score, or by completing the ESL level 112 Intensive Program. For more information on international admission, visit the Office of Global Education's admission website.

**Transfer, Transitioning and Former Students:** For more information about admission criteria for transfer, transitioning and former students, please visit the admissions website.

Transfer students with more than two studio courses should submit a portfolio of work for proper placement. The director of the School of Art may impose additional requirements considered reasonable and

necessary. Transfer credits are evaluated consistent with the state Transfer Articulation Guidelines (TAG), although each student will be evaluated individually in terms of his or her ability to perform within the program. Transfer students should make every effort to complete admission requirements before the deadlines and to see an advisor in the School of Art for an evaluation of the portfolio and for schedule planning before registration.

## University Requirements

All students in a bachelor's degree program at Kent State University must complete the following university requirements for graduation.

**NOTE:** University requirements may be fulfilled in this program by specific course requirements. Please see Program Requirements for details.

Destination Kent State: First Year Experience	1
Course is not required for students with 25 transfer credits, excluding College Credit Plus, or age 21+ at time of admission.	
Diversity Domestic/Global (DIVD/DIVG)	2 courses
Students must successfully complete one domestic and one global course, of which one must be from the Kent Core.	
Experiential Learning Requirement (ELR)	varies
Students must successfully complete one course or approved experience.	
Kent Core (see table below)	36-37
Writing-Intensive Course (WIC)	1 course
Students must earn a minimum C grade in the course.	
Upper-Division Requirement	39 (or 42)
Students must successfully complete 39 upper-division (numbered 30000 to 49999) credit hours to graduate. Students in a B.A. and/or B.S. degree in the College of Arts and Sciences must complete 42 upper-division credit hours.	
Total Credit Hour Requirement	120
Some bachelor's degrees require students to complete more than 120 credit hours.	

## Kent Core Requirements

Kent Core Composition (KCMP)	6
Kent Core Mathematics and Critical Reasoning (KMCR)	3
Kent Core Humanities and Fine Arts (KHUM/KFA) (min one course each)	9
Kent Core Social Sciences (KSS) (must be from two disciplines)	6
Kent Core Basic Sciences (KBS/KLAB) (must include one laboratory)	6-7
Kent Core Additional (KADL)	6
<b>Total Credit Hours:</b>	<b>36-37</b>

## Program Requirements

### Major Requirements

Code	Title	Credit Hours
<b>Major Requirements (courses count in major GPA)</b>		
ARTH 22006	ART HISTORY: ANCIENT AND MEDIEVAL ART (KFA)	3
ARTH 22007	ART HISTORY: RENAISSANCE TO MODERN ART (KFA)	3
ARTH 22020	ART OF AFRICA, OCEANIA AND THE AMERICAS (DIVG) (KFA)	3

ARTH 42000	RESEARCH AND WRITING IN ART HISTORY (WIC) <sup>1</sup>	3
Art History (ARTH) Upper-Division Electives (30000 or 40000 level)		18
Studio Art (ARTS) or Art History (ARTH) Electives <sup>2</sup>		12
<b>Additional Requirements (courses do not count in major GPA)</b>		
UC 10097	DESTINATION KENT STATE: FIRST YEAR EXPERIENCE	1
French or German Language requirement, choose from the following:		14
<i>French</i>		
FR 13201	ELEMENTARY FRENCH I	
FR 13202	ELEMENTARY FRENCH II	
FR 23201	INTERMEDIATE FRENCH I	
FR 23202	INTERMEDIATE FRENCH II	
<i>German</i>		
GER 11201	ELEMENTARY GERMAN I	
GER 11202	ELEMENTARY GERMAN II	
GER 21201	INTERMEDIATE GERMAN I	
GER 21202	INTERMEDIATE GERMAN II	
Kent Core Composition		6
Kent Core Mathematics and Critical Reasoning		3
Kent Core Humanities		3
Kent Core Social Sciences (must be from two disciplines)		6
Kent Core Basic Sciences (must include one laboratory)		6-7
Kent Core Additional		3
Minor Requirements and General Electives (total credit hours depends on earning 120 credit hours, including 39 upper-division electives) <sup>3</sup>		36
Minimum Total Credit Hours:		120

- <sup>1</sup> A minimum C grade must be earned to fulfill the writing-intensive requirement.
- <sup>2</sup> For art electives, minimum 6 credit hours must be in studio art (ARTS) or related studio area. The remaining credit hours may be in art history (ARTH). ARTH 12001 is designed for non-art major, and will not fulfill major requirements for art majors.
- <sup>3</sup> Students may elect an established minor or a block of approved courses chosen in consultation with an advisor in lieu of an established minor. Student not choosing a minor must have all their coursework approved in writing by the School of Art and the College of the Arts.

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## Graduation Requirements

Minimum Major GPA	Minimum Overall GPA
2.250	2.000



## Roadmap

This roadmap is a recommended semester-by-semester plan of study for this major. However, courses designated as critical (!) must be completed in the semester listed to ensure a timely graduation.

Semester One		Credits
ARTH 22006	ART HISTORY: ANCIENT AND MEDIEVAL ART (KFA)	3
FR 13201 or GER 11201	ELEMENTARY FRENCH I or ELEMENTARY GERMAN I	4
UC 10097	DESTINATION KENT STATE: FIRST YEAR EXPERIENCE	1
Kent Core Requirement		3
Kent Core Requirement		3
Credit Hours		14
Semester Two		Credits
ARTH 22007	ART HISTORY: RENAISSANCE TO MODERN ART (KFA)	3
FR 13202 or GER 11202	ELEMENTARY FRENCH II or ELEMENTARY GERMAN II	4
Studio Art (ARTS) or Art History (ARTH) Electives		6
Kent Core Requirement		3
Credit Hours		16
Semester Three		Credits
ARTH 22020	ART OF AFRICA, OCEANIA AND THE AMERICAS (DIVG) (KFA)	3
FR 23201 or GER 21201	INTERMEDIATE FRENCH I or INTERMEDIATE GERMAN I	3
Kent Core Requirement		3
Kent Core Requirement		3
Kent Core Requirement		3
Credit Hours		15
Semester Four		Credits
ARTH 42000	RESEARCH AND WRITING IN ART HISTORY (WIC)	3
FR 23202 or GER 21202	INTERMEDIATE FRENCH II or INTERMEDIATE GERMAN II	3
Art History (ARTH) Upper-Division Electives (30000 or 40000 level)		3
Kent Core Requirement		3
Kent Core Requirement		3
Credit Hours		15
Semester Five		Credits
Studio Art (ARTS) or Art History (ARTH) Electives		3
Art History (ARTH) Upper-Division Electives (30000 or 40000 level)		3
Minor Requirements and General Electives		9
Credit Hours		15
Semester Six		Credits
Art History (ARTH) Upper-Division Electives (30000 or 40000 level)		3
Kent Core Requirement		3
Minor Requirements and General Electives		9
Credit Hours		15
Semester Seven		Credits
Art History (ARTH) Upper-Division Electives (30000 or 40000 level)		6
Minor Requirements and General Electives		9
Credit Hours		15

### Semester Eight

Studio Art (ARTS) or Art History (ARTH) Electives	3
Art History (ARTH) Upper-Division Electives (30000 or 40000 level)	3
Minor Requirements and General Electives	9
Credit Hours	15
Minimum Total Credit Hours:	120

## Art History - M.A.

### College of the Arts

School of Art  
241 Center for the Visual Arts  
Kent Campus  
330-672-2192  
artinfo@kent.edu  
www.kent.edu/art

## Description

The Master of Arts degree in Art History emphasizes obtaining a comprehensive view of world art and specializing in one area for the thesis. Specializations may include contemporary African, medieval, Renaissance, early modern, modern, American or contemporary art and critical theory.

### Fully Offered At:

- Kent Campus

## Accreditation

National Association of Schools of Art and Design (NASAD)

## Admission Requirements

- Bachelor's degree from an accredited college or university for unconditional admission
- Minimum 3.000 undergraduate GPA on a 4.000 point scale for unconditional admission
- Official transcript(s)
- Curriculum vitae
- Goal statement(s)
- Three letters of recommendation
- English language proficiency - all international students must provide proof of English language proficiency (unless they meet specific exceptions) by earning one of the following:
  - Minimum 550 TOEFL PBT score (paper-based version)
  - Minimum 79 TOEFL IBT score (Internet-based version)
  - Minimum 77 MELAB score
  - Minimum 6.5 IELTS score
  - Minimum 58 PTE score
  - Minimum 110 Duolingo test score

For more information about graduate admissions, please visit the Graduate Studies admission website. For more information on international admission, visit the Office of Global Education's admission website.

## Program Learning Outcomes

Graduates of the program will be able to:

1. Demonstrate a comprehensive understanding of the diverse character of visual and performative art traditions from a diversity of historic and cultural traditions.
2. Demonstrate advanced knowledge in a particular period of art or a particular non-Western culture.
3. Engage with and develop a variety of arguments relevant to particular art historical projects.
4. Demonstrate skills in written and oral discourse.
5. Observe, describe and interpret art objects, events and concepts within a cultural context.
6. Access and utilize relevant primary and secondary source material in diverse formats, including digital technology.

## Program Requirements

### Major Requirements

Code	Title	Credit Hours
<b>Major Requirements</b>		
ARTH 62000	ART HISTORY RESEARCH METHODS AND RESOURCES	2
ARTH 67199	M.A.THESIS I <sup>1</sup>	6
Art History (ARTH) Electives, choose at least one course from each:		24
Ancient		
Medieval		
Modern		
Non-Western		
Renaissance/Baroque		
Electives		3
Minimum Total Credit Hours:		35

- <sup>1</sup> The thesis is a significant project or body of work done independently of other coursework. Students are expected to demonstrate the ability to conduct research or produce a significant, original project in a discriminating and disciplined manner. The thesis topic should be one that will further the student's knowledge and ability in the specialty by demonstrating skill as a researcher or studio artist. The outcome should be an effort that serves as a foundation for the pursuit of independent work when the graduate program is completed. At this stage, students are expected to work in close consultation with their thesis advisor.

### Graduation Requirements

- A reading knowledge of either French, German or other approved foreign language is required.
- Successful completion of the Candidacy Review Examination is a requirement in every School of Art graduate program. In the Art History major, the examination is given by the fourth semester of full time coursework. Successful completion of the examination designates the student as a candidate for the degree.

## Art History - Minor

College of the Arts  
School of Art

241 Center for the Visual Arts  
Kent Campus  
330-672-2192  
artinfo@kent.edu  
www.kent.edu/art

## Description

The Art History minor introduces students to major works in the history of art and to the analytical and critical methods of the art historian.

### Fully Offered At:

- Kent Campus

## Admission Requirements

Admission to a minor is open to students declared in a bachelor's degree, the A.A.B. or A.A.S. degree or the A.T.S. degree (not Individualized Program major). Students declared only in the A.A. or A.S. degree or the A.T.S. degree in Individualized Program may not declare a minor. Students may not pursue a minor and a major in the same discipline.

## Minor Requirements

Code	Title	Credit Hours
<b>Minor Requirements</b>		
ARTH 22006	ART HISTORY: ANCIENT AND MEDIEVAL ART (KFA)	3
ARTH 22007	ART HISTORY: RENAISSANCE TO MODERN ART (KFA)	3
ARTH 22020	ART OF AFRICA, OCEANIA AND THE AMERICAS (DIVG) (KFA)	3
Art History (ARTH) Upper-Division Electives (30000 or 40000 level)		9
Minimum Total Credit Hours:		18

### Graduation Requirements

Minimum Minor GPA	Minimum Overall GPA
2.250	2.000

- Minimum 6 credit hours in the minor must be upper-division coursework (30000 and 40000 level).
- Minimum 6 credit hours in the minor must be outside of the course requirements for any major or other minor the student is pursuing.
- Minimum 50 percent of the total credit hours for the minor must be taken at Kent State (in residence).

## Ceramics - Minor

College of the Arts  
School of Art  
241 Center for the Visual Arts  
Kent Campus  
330-672-2192  
artinfo@kent.edu  
www.kent.edu/art

## Description

The Ceramics minor is designed to encourage students from all areas of the university to explore working creatively with clay. Students may explore making functional pots and sculptural objects using a variety of wheel throwing and hand-building techniques, or they may choose to work sculpturally in conjunction with other methods of creating three-dimensional objects. Flexibility in the curriculum affords students the opportunity to design a program intended to meet individual needs and freedom of expression.

### Fully Offered At:

- Kent Campus

Admission to a minor is open to students declared in a bachelor's degree, the A.A.B. or A.A.S. degree or the A.T.S. degree (not Individualized Program major). Students declared only in the A.A. or A.S. degree or the A.T.S. degree in Individualized Program may not declare a minor. Students may not pursue a minor and a major in the same discipline.

## Minor Requirements

Code	Title	Credit Hours
<b>Minor Requirements</b>		
ARTS 25400	CERAMICS I	3
Minor Electives, choose from the following:		6
ART 10023	3D COMPOSITION	
ARTS 24051	INTRODUCTION TO SCULPTURAL PRACTICE	
ARTS 25600	INTRODUCTION TO GLASS WORKING	
ARTS 35604	SCULPTURAL AND KILN-FORMED GLASS	
Clay and Glass Electives, choose from the following:		9
ARTS 35095	STUDIO ART: SPECIAL TOPICS	
ARTS 35400	FUNCTIONAL APPROACHES TO CLAY	
ARTS 35401	SCULPTURAL APPROACHES IN CLAY	
ARTS 45080	KENT BLOSSOM ART	
ARTS 45400	ADVANCED CERAMICS	
Minimum Total Credit Hours:		18

## Graduation Requirements

Minimum Minor GPA	Minimum Overall GPA
2.250	2.000

- Minimum 6 credit hours in the minor must be upper-division coursework (30000 and 40000 level).
- Minimum 6 credit hours in the minor must be outside of the course requirements for any major or other minor the student is pursuing.
- Minimum 50 percent of the total credit hours for the minor must be taken at Kent State (in residence).

## Drawing - Minor

**College of the Arts**  
 School of Art  
 241 Center for the Visual Arts  
 Kent Campus  
 330-672-2192  
 artinfo@kent.edu  
 www.kent.edu/art

## Description

The Drawing minor provides an introduction to fundamental form, pictorial structure and media through work from observation and conceptual projects. Emphasis in the minor is on students' continued development in drawing toward individually conceived creative practice.

### Fully Offered At:

- Kent Campus
- Stark Campus

## Admission Requirements

Admission to a minor is open to students declared in a bachelor's degree, the A.A.B. or A.A.S. degree or the A.T.S. degree (not Individualized Program major). Students declared only in the A.A. or A.S. degree or the A.T.S. degree in Individualized Program may not declare a minor. Students may not pursue a minor and a major in the same discipline.

## Minor Requirements

Code	Title	Credit Hours
<b>Minor Requirements</b>		
ART 10022	2D COMPOSITION	3
ARTS 14000	DRAWING I	3
ARTS 14001	DRAWING II	3
Studio Art Electives, choose from the following:		9
ARTS 24002	DRAWING AS A STUDIO PRACTICE	
ARTS 34002	FIGURE DRAWING <sup>1</sup>	
ARTS 34003	DRAWING: STRUCTURE AND EXPERIMENTATION <sup>1</sup>	
ARTS 45080	KENT BLOSSOM ART <sup>2</sup>	
ARTS 45095	STUDIO ART: SPECIAL TOPICS <sup>2</sup>	
Minimum Total Credit Hours:		18
<sup>1</sup> Repeatable for a maximum of 6 credit hours.		
<sup>2</sup> May be used with approval from a faculty or academic advisor.		

## Graduation Requirements

Minimum Minor GPA	Minimum Overall GPA
2.250	2.000

- Minimum 6 credit hours in the minor must be upper-division coursework (30000 and 40000 level).
- Minimum 6 credit hours in the minor must be outside of the course requirements for any major or other minor the student is pursuing.
- Minimum 50 percent of the total credit hours for the minor must be taken at Kent State (in residence).

## Glass - Minor

**College of the Arts**  
 School of Art  
 241 Center for the Visual Arts  
 Kent Campus  
 330-672-2192  
 artinfo@kent.edu

www.kent.edu/art

## Description

The Glass minor is designed to encourage students from all areas of the university to explore working creatively with glass. Students can take coursework in glassblowing, flameworking, and kiln-formed glass, which creates a platform for broad understanding of the material and creative forces at play in the medium. Flexibility in the curriculum provides students with choices to design a program to meet individual needs and freedom of expression.

### Fully Offered At:

- Kent Campus

Admission to a minor is open to students declared in a bachelor's degree, the A.A.B. or A.A.S. degree or the A.T.S. degree (not Individualized Program major). Students declared only in the A.A. or A.S. degree or the A.T.S. degree in Individualized Program may not declare a minor. Students may not pursue a minor and a major in the same discipline.

## Minor Requirements

Code	Title	Credit Hours
<b>Minor Requirements</b>		
ARTS 25600	INTRODUCTION TO GLASS WORKING	3
Minor Electives, choose from the following:		6
ART 10023	3D COMPOSITION	
ARTS 24051	INTRODUCTION TO SCULPTURAL PRACTICE	
ARTS 25400	CERAMICS I	
Studio Art Electives, choose from the following:		9
ARTS 35095	STUDIO ART: SPECIAL TOPICS	
ARTS 35602	FLAMEWORKED GLASS	
ARTS 35603	GLASS BLOWING	
ARTS 35604	SCULPTURAL AND KILN-FORMED GLASS	
ARTS 45080	KENT BLOSSOM ART	
ARTS 45600	ADVANCED GLASS WORKING	
Minimum Total Credit Hours:		18

## Graduation Requirements

Minimum Minor GPA	Minimum Overall GPA
2.250	2.000

- Minimum 6 credit hours in the minor must be upper-division coursework (30000 and 40000 level).
- Minimum 6 credit hours in the minor must be outside of the course requirements for any major or other minor the student is pursuing.
- Minimum 50 percent of the total credit hours for the minor must be taken at Kent State (in residence).

## Jewelry, Metals and Enameling - Minor

### College of the Arts

School of Art  
241 Center for the Visual Arts  
Kent Campus

330-672-2192  
artinfo@kent.edu  
www.kent.edu/art

## Description

The Jewelry, Metals and Enameling minor focuses on approaches to jewelry making and metalsmithing, while allowing students to achieve specialization. Students will achieve such skills as cold connection techniques, small and medium scaled silver soldering, small jewelry- and object-making techniques, small scale fabrication, forming, cold forging and tool-making techniques.

### Fully Offered At:

- Kent Campus

## Admission Requirements

Admission to a minor is open to students declared in a bachelor's degree, the A.A.B. or A.A.S. degree or the A.T.S. degree (not Individualized Program major). Students declared only in the A.A. or A.S. degree or the A.T.S. degree in Individualized Program may not declare a minor. Students may not pursue a minor and a major in the same discipline.

## Minor Requirements

Code	Title	Credit Hours
<b>Minor Requirements</b>		
ART 10022	2D COMPOSITION	3
or ART 10023	3D COMPOSITION	
or ART 10024	DIGITAL MEDIA	
ARTS 25700	INTRODUCTION TO JEWELRY METALS I	3
or ARTS 25701	INTRODUCTION TO JEWELRY/METALS FOR NON-ART MAJORS	
ARTS 35700	JEWELRY CONCEPTS AND TECHNIQUES	3
ARTS 35701	METALSMITHING CONCEPTS AND TECHNIQUES	3
Minor Electives, choose from the following:		6
ARTS 35702	ENAMELING CONCEPTS AND TECHNIQUES	
ARTS 45095	STUDIO ART: SPECIAL TOPICS	
ARTS 45700	DESIGN AND PRODUCTION	
ARTS 45701	TABLEWARE	
ARTS 45702	ADVANCED ENAMELING	
ARTS 45704	ADVANCED STUDIO JEWELRY METALS ENAMELING	
Minimum Total Credit Hours:		18

## Graduation Requirements

Minimum Minor GPA	Minimum Overall GPA
2.250	2.000

- Minimum 6 credit hours in the minor must be upper-division coursework (30000 and 40000 level).
- Minimum 6 credit hours in the minor must be outside of the course requirements for any major or other minor the student is pursuing.
- Minimum 50 percent of the total credit hours for the minor must be taken at Kent State (in residence).

## Painting - Minor

**College of the Arts**  
 School of Art  
 241 Center for the Visual Arts  
 Kent Campus  
 330-672-2192  
 artinfo@kent.edu  
 www.kent.edu/art

### Description

The Painting minor is an introduction to fundamental image-making and the use of form in painting through working from observation and conceptual projects. Emphasis in the minor is on students' continued development in painting towards self-initiated creative practice.

#### Fully Offered At:

- Kent Campus
- Stark Campus

### Admission Requirements

Admission to a minor is open to students declared in a bachelor's degree, the A.A.B. or A.A.S. degree or the A.T.S. degree (not Individualized Program major). Students declared only in the A.A. or A.S. degree or the A.T.S. degree in Individualized Program may not declare a minor. Students may not pursue a minor and a major in the same discipline.

### Minor Requirements

Code	Title	Credit Hours
<b>Minor Requirements</b>		
ART 10022	2D COMPOSITION	3
ARTS 14000	DRAWING I	3
ARTS 24061	INTRODUCTION TO PAINTING	3
Studio Art Electives, choose from the following:		9
ARTS 34061	INTERMEDIATE PAINTING	
ARTS 34062	PAINTING STRATEGIES: PROCESS AND CONTENT	
or ARTS 34063	PAINTING STRATEGIES: IMAGE AND CONTENT	
ARTS 44060	ADVANCED PAINTING: PRACTICE AND THEORY	
or ARTS 45080	KENT BLOSSOM ART	
ARTS 45095	STUDIO ART: SPECIAL TOPICS <sup>1</sup>	
Minimum Total Credit Hours:		18

<sup>1</sup> May be used with approval from a faculty or academic advisor.

### Graduation Requirements

Minimum Minor GPA	Minimum Overall GPA
2.250	2.000

- Minimum 6 credit hours in the minor must be upper-division coursework (30000 and 40000 level).
- Minimum 6 credit hours in the minor must be outside of the course requirements for any major or other minor the student is pursuing.

- Minimum 50 percent of the total credit hours for the minor must be taken at Kent State (in residence).

## Print Media and Photography - Minor

**College of the Arts**  
 School of Art  
 241 Center for the Visual Arts  
 Kent Campus  
 330-672-2192  
 artinfo@kent.edu  
 www.kent.edu/art

### Description

The Print Media and Photography minor provides an introduction to printmaking and fine art photography. Students can pursue a study in traditional printmaking techniques such as intaglio, silkscreen and lithography, as well as digital applications. Students can also pursue a study in photography, including traditional darkroom and film alternative photographic techniques and fine art digital photography. Synergies between these two historically related disciplines provide ample room for experimentation and a course of study designed specifically to suit students' interests.

#### Fully Offered At:

- Kent Campus

### Admission Requirements

Admission to a minor is open to students declared in a bachelor's degree, the A.A.B. or A.A.S. degree or the A.T.S. degree (not Individualized Program major). Students declared only in the A.A. or A.S. degree or the A.T.S. degree in Individualized Program may not declare a minor. Students may not pursue a minor and a major in the same discipline.

### Minor Requirements

Code	Title	Credit Hours
<b>Minor Requirements</b>		
ARTS 24010	INTRODUCTION TO FINE ART PHOTOGRAPHY	3
or ARTS 24040	PRINTMAKING I	
Minor Electives, choose from the following:		6
ART 10022	2D COMPOSITION	
ART 10024	DIGITAL MEDIA	
ARTS 14000	DRAWING I	
Printmaking and Photography Electives, choose from the following:		9
ARTS 24010	INTRODUCTION TO FINE ART PHOTOGRAPHY	
ARTS 24040	PRINTMAKING I	
ARTS 34040	PRINTMAKING:INTERMEDIATE INTAGLIO	
ARTS 34041	SERIGRAPHY I	
ARTS 34042	LITHOGRAPHY I	
ARTS 44010	ADVANCED FINE ART PHOTOGRAPHY	
ARTS 44011	DIGITAL FINE ART PHOTOGRAPHY	
ARTS 44040	PRINTMAKING: ADVANCED INTAGLIO	
ARTS 44041	SERIGRAPHY II	
ARTS 44043	ADVANCED PRINTMAKING	



ARTS 44045	ART OF THE BOOK
Minimum Total Credit Hours: 18	

## Graduation Requirements

Minimum Minor GPA	Minimum Overall GPA
2.250	2.000

- Minimum 6 credit hours in the minor must be upper-division coursework (30000 and 40000 level).
- Minimum 6 credit hours in the minor must be outside of the course requirements for any major or other minor the student is pursuing.
- Minimum 50 percent of the total credit hours for the minor must be taken at Kent State (in residence).

## Sculpture and Expanded Media - Minor

### College of the Arts

School of Art  
241 Center for the Visual Arts  
Kent Campus  
330-672-2192  
artinfo@kent.edu  
www.kent.edu/art

## Description

The Sculpture and Expanded Media minor offers students a wide range of approaches, strategies and techniques to making dimensional and spatial work. Students learn to fabricate sculptural objects utilizing techniques in clay, plaster, wood, metal and non-traditional materials. In addition, they are exposed and learn to work in expanded media formats, such as installation art and time-based practices (video, sound, performance).

### Fully Offered At:

- Kent Campus
- Stark Campus

## Admission Requirements

Admission to a minor is open to students declared in a bachelor's degree, the A.A.B. or A.A.S. degree or the A.T.S. degree (not Individualized Program major). Students declared only in the A.A. or A.S. degree or the A.T.S. degree in Individualized Program may not declare a minor. Students may not pursue a minor and a major in the same discipline.

## Minor Requirements

Code	Title	Credit Hours
<b>Minor Requirements</b>		
ARTS 24051	INTRODUCTION TO SCULPTURE PRACTICE	3
Minor Electives, choose from the following:		6
ART 10023	3D COMPOSITION	
ARTS 25400	CERAMICS I	
ARTS 35604	SCULPTURAL AND KILN-FORMED GLASS	
Sculpture and Expanded Media Electives, choose from the following:		9

ARTS 34051	SCULPTURAL OBJECT
ARTS 34052	TIME ARTS
ARTS 34053	SITE AND INSTALLATION
ARTS 44051	ADVANCED SCULPTURAL PRACTICE
ARTS 45095	STUDIO ART: SPECIAL TOPICS

Minimum Total Credit Hours: 18

## Graduation Requirements

Minimum Minor GPA	Minimum Overall GPA
2.250	2.000

- Minimum 6 credit hours in the minor must be upper-division coursework (30000 and 40000 level).
- Minimum 6 credit hours in the minor must be outside of the course requirements for any major or other minor the student is pursuing.
- Minimum 50 percent of the total credit hours for the minor must be taken at Kent State (in residence).

## Studio Art - B.A.

### College of the Arts

School of Art  
241 Center for the Visual Arts  
Kent Campus  
330-672-2192  
artinfo@kent.edu  
www.kent.edu/art

## Description

The Bachelor of Arts degree in Studio Art is a liberal arts program that provides students with the breadth of study that complements core work in the visual arts. Students may choose one or more studio art minors or a second major outside the arts to prepare themselves for a wide range of careers or for further specialized study.

Students in the program are encouraged to take advantage of travel opportunities to New York Chicago, London, Paris and China. In addition, students can participate in study abroad full semester or summer experiences at Kent State's Florence, Italy, location.

### Fully Offered At:

- Kent Campus
- Stark Campus

## Accreditation

National Association of Schools of Art and Design (NASAD).

## Admission Requirements

The university affirmatively strives to provide educational opportunities and access to students with varied backgrounds, those with special talents and adult students who graduated from high school three or more years ago.

**Freshman Students on the Kent Campus:** The freshman admission policy on the Kent Campus is selective. Admission decisions are based upon the following: cumulative grade point average, ACT and/or SAT scores, strength of high school college preparatory curriculum and

grade trends. The Admissions Office at the Kent Campus may defer the admission of students who do not meet admissions criteria but who demonstrate areas of promise for successful college study. Deferred applicants may begin their college coursework at one of seven regional campuses of Kent State University. For more information on admissions, including additional requirements for some academic programs, visit the admissions website for new freshmen.

**Freshman Students on the Regional Campuses:** Kent State campuses at Ashtabula, East Liverpool, Geauga, Salem, Stark, Trumbull and Tuscarawas, as well as the Regional Academic Center in Twinsburg, have open enrollment admission for students who hold a high school diploma, GED or equivalent.

**English Language Proficiency Requirements for International Students:** All international students must provide proof of English language proficiency (unless they meet specific exceptions) by earning a minimum 525 TOEFL score (71 on the Internet-based version), minimum 75 MELAB score, minimum 6.0 IELTS score or minimum 48 PTE score, or by completing the ESL level 112 Intensive Program. For more information on international admission, visit the Office of Global Education's admission website.

**Transfer, Transitioning and Former Students:** For more information about admission criteria for transfer, transitioning and former students, please visit the admissions website.

Transfer applicants to the program who meet the general transfer admission requirements should schedule a meeting with the academic advisor in the School of Art and submit a portfolio to a studio art faculty member to review for proper course placement. The faculty member may specify additional requirements considered reasonable and necessary. Transfer credits are evaluated consistent with the state-wide Transfer Articulation Guides (TAG), although each student will be evaluated individually in terms of his or her ability to perform in the program. Transfer students should make every effort to complete admission requirements before the deadlines and to schedule a portfolio review with before registration.

## Program Learning Outcomes

Graduates in the program will be able to:

1. Demonstrate the ability (skill) to do competent work within their chosen media and an understanding of the processes and materials involved.
2. Demonstrate an understanding of larger contemporary and historical contexts within which the visual arts have been created.
3. Demonstrate an understanding of design and visual literacy in their work.
4. Use skills in oral, written and digital presentation of work and of ideas associated with visual arts production, use and appreciation.

## University Requirements

All students in a bachelor's degree program at Kent State University must complete the following university requirements for graduation.

**NOTE:** University requirements may be fulfilled in this program by specific course requirements. Please see Program Requirements for details.

Destination Kent State: First Year Experience	1
Course is not required for students with 25 transfer credits, excluding College Credit Plus, or age 21+ at time of admission.	
Diversity Domestic/Global (DIVD/DIVG)	2 courses
Students must successfully complete one domestic and one global course, of which one must be from the Kent Core.	
Experiential Learning Requirement (ELR)	varies
Students must successfully complete one course or approved experience.	
Kent Core (see table below)	36-37
Writing-Intensive Course (WIC)	1 course
Students must earn a minimum C grade in the course.	
Upper-Division Requirement	39 (or 42)
Students must successfully complete 39 upper-division (numbered 30000 to 49999) credit hours to graduate. Students in a B.A. and/or B.S. degree in the College of Arts and Sciences must complete 42 upper-division credit hours.	
Total Credit Hour Requirement	120
Some bachelor's degrees require students to complete more than 120 credit hours.	

## Kent Core Requirements

Kent Core Composition (KCMP)	6
Kent Core Mathematics and Critical Reasoning (KMCR)	3
Kent Core Humanities and Fine Arts (KHUM/KFA) (min one course each)	9
Kent Core Social Sciences (KSS) (must be from two disciplines)	6
Kent Core Basic Sciences (KBS/KLAB) (must include one laboratory)	6-7
Kent Core Additional (KADL)	6
<b>Total Credit Hours:</b>	<b>36-37</b>

## Program Requirements

### Major Requirements

Code	Title	Credit Hours
<b>Major Requirements (courses count in major GPA)</b>		
ART 10022	2D COMPOSITION	3
ART 10023	3D COMPOSITION	3
ART 10024	DIGITAL MEDIA	3
ART 30001	COMMON REVIEW <sup>1</sup>	1
ART 40007	ARTS ENGAGEMENT: INTERPRETING FOR A COMMUNITY (WIC) <sup>2</sup>	3
ARTH 22006	ART HISTORY: ANCIENT AND MEDIEVAL ART (KFA)	3
ARTH 22007	ART HISTORY: RENAISSANCE TO MODERN ART (KFA)	3
ARTH 32066	LATE MODERN ART	3
ARTS 14000	DRAWING I	3
ARTS 14001	DRAWING II	3
Art History Upper-Division Elective (ARTH 30000 or 40000 level)		3
Studio Art Upper-Division Electives (ARTS 30000 or 40000 level) <sup>3</sup>		15
Foundations Electives, choose from the following:		12
ARTS 24002	DRAWING AS A STUDIO PRACTICE	
ARTS 24010	INTRODUCTION TO FINE ART PHOTOGRAPHY	
ARTS 24040	PRINTMAKING I	
ARTS 24051	INTRODUCTION TO SCULPTURE PRACTICE	
ARTS 24061	INTRODUCTION TO PAINTING	

ARTS 25300	TEXTILES: PATTERN	
ARTS 25400	CERAMICS I	
ARTS 25600	INTRODUCTION TO GLASS WORKING	
ARTS 25700	INTRODUCTION TO JEWELRY METALS I	
<b>Additional Requirements (courses do not count in major GPA)</b>		
UC 10097	DESTINATION KENT STATE: FIRST YEAR EXPERIENCE	1
<hr/>		
Kent Core Composition		6
Kent Core Mathematics and Critical Reasoning		3
Kent Core Humanities		3
Kent Core Social Sciences (must be from two disciplines)		6
Kent Core Basic Sciences (must include one laboratory)		6-7
Kent Core Additional		6
General Electives (total credit hours depends on earning 120 credit hours, including 39 upper-division credit hours)		31
Minimum Total Credit Hours:		120

- <sup>1</sup> Selected upper-division Studio Art courses (ARTS 30000 or 40000 level) may be taken without first successfully completing ART 30001. At the completion of eight specific courses (ART 10022, ART 10023, ART 10024, ARTH 22007, ARTS 14000, ARTS 14001 and two of the four foundations electives), students register for ART 30001 and submit a portfolio of representative studio work selected from these courses to a studio art faculty committee for review. An examination of knowledge of art history also will be included. Incoming transfer students are expected to provide examples of foundational coursework equivalent to School of Art requirements for ART 30001. The review is a formative assessment of the student's foundations work including a digital portfolio, installation of sampling of works and proficiency in written and oral critical thinking.
- <sup>2</sup> A minimum C grade must be earned to fulfill the writing-intensive requirement.
- <sup>3</sup> A maximum 6 credit hours of ARTS 45092 may be applied toward Studio Art Electives. Students may apply this course toward fulfilling general electives, with no maximum credit hours required.

## Graduation Requirements

Minimum Major GPA	Minimum Overall GPA
2.250	2.000

- ARTH 12001 is designed for non-art majors, and will not fulfill major requirements for art majors.

## Roadmap

This roadmap is a recommended semester-by-semester plan of study for this major. However, courses designated as critical (!) must be completed in the semester listed to ensure a timely graduation.

Semester One		Credits
ART 10022	2D COMPOSITION	3
ART 10024	DIGITAL MEDIA	3
ARTH 22007	ART HISTORY: RENAISSANCE TO MODERN ART (KFA)	3
ARTS 14000	DRAWING I	3
UC 10097	DESTINATION KENT STATE: FIRST YEAR EXPERIENCE	1
Kent Core Requirement		3
Credit Hours		16

### Semester Two

ART 10023	3D COMPOSITION	3
ARTS 14001	DRAWING II	3
Foundations Elective		3
Kent Core Requirement		3
Kent Core Requirement		3
Credit Hours		15

### Semester Three

ARTH 22006	ART HISTORY: ANCIENT AND MEDIEVAL ART (KFA)	3
Foundations Electives		9
Kent Core Requirement		3
Credit Hours		15

### Semester Four

ART 30001	COMMON REVIEW	1
ARTH 32066	LATE MODERN ART	3
Studio Art Upper-Division Elective (ARTS 30000 or 40000 level)		3
Kent Core Requirement		3
General Electives		6
Credit Hours		16

### Semester Five

Art History Upper-Division Elective (ARTH 30000 or 40000 level)		3
Studio Art Upper-Division Elective (ARTS 30000 or 40000 level)		3
Kent Core Requirement		3
Kent Core Requirement		3
General Elective		3
Credit Hours		15

### Semester Six

Studio Art Upper-Division Elective (ARTS 30000 or 40000 level)		3
Kent Core Requirement		3
Kent Core Requirement		3
General Electives		6
Credit Hours		15

### Semester Seven

ART 40007	ARTS ENGAGEMENT: INTERPRETING FOR A COMMUNITY (WIC)	3
Studio Art Upper-Division Elective (ARTS 30000 or 40000 level)		3
Kent Core Requirement		3
General Electives		6
Credit Hours		15

### Semester Eight

Studio Art Upper-Division Elective (ARTS 30000 or 40000 level)		3
General Electives		10
Credit Hours		13

Minimum Total Credit Hours: 120

## Studio Art - B.F.A.

### College of the Arts

School of Art  
 241 Center for the Visual Arts  
 Kent Campus  
 330-672-2192  
 artinfo@kent.edu  
 www.kent.edu/art

## Description

The Bachelor of Fine Arts degree in Studio Art is a pre-professional program that develops students' conceptual prowess, technical competency and independent problem-solving to meet the challenges of a career or advanced study in the visual arts. Through studio critiques, the study of sophisticated art and design concepts, mastery of skills and technologies and critical analysis of historical and contemporary issues, students learn to analyze and evaluate visual art and to apply this knowledge to their own creative practice. Graduating students demonstrate their competence by producing a cohesive body of work presented in their senior thesis exhibition to a panel of faculty reviewers.

The Studio Art major comprises the following concentrations:

- The **Ceramics** concentration offers students the opportunity to hone their command of ceramic material to create both artistic and functional forms. Students find new ways of practicing an ancient craft, drawing on both traditional and contemporary thought and practice. In addition, they investigate practices from around the world for a global context in understanding the medium.
- The **Drawing** concentration cultivates foundational through advanced observational, conceptual and experimental processes to enable students to explore ideas across media and disciplines. All majors in the School of Art are able to complete a sequence of drawing courses to strengthen their drawing as a tool for visual thinking and recording. The concentration encourages advanced students to work with a wide range of approaches and to pursue drawing in diverse contexts.
- The **Glass** concentration challenges students to explore glass as a creative medium, both technically and conceptually, within the broader context of contemporary art. In addition to the fundamentals of glassblowing, students learn glass casting, slumping, fusing, frameworking, enameling, cold-working and assembly. Both interdisciplinary and mixed media approaches are actively encouraged.
- The **Jewelry, Metals and Enameling** concentration guides students in developing their own artistic signatures by exploring historical and contemporary concepts. Students are able to absorb a range of techniques and technological processes, using such specialized equipment as 3-D printers and large-scale Ferro enameling kilns.
- The **Painting** concentration is rooted in observation and technique while stimulating abstract, conceptual or material-driven ideas about painting and contemporary art practices. The curriculum supports a variety of specific approaches to painting – including collage, figural, landscape and abstraction – while simultaneously promoting an interdisciplinary approach and emphasizing engagement with contemporary practices. Advanced painting students work in consultation with faculty advisors to pursue individual directions and interests.
- The **Print Media and Photography** concentration introduces students to all traditional print forms as a foundation for conceptual approaches. Students are able to learn print techniques such as intaglio, lithography, relief, silkscreen and large-format digital printing. In addition, students can explore traditional and experimental photography and develop print matrices. Students learn how to develop printed and photographic works of art through layering, problem solving and thoughtful material applications.
- The **Sculpture and Expanded Media** concentration encourages proficiency in foundational methods of making-modeling, carving and assembly. The concentration is a springboard for students to learn how to communicate ideas through sculptural works. Although

sculpture classes are rooted in the history of object-making, new forms of sculptural practice (installation, time-based practice, sound and kinetic works) are all part of a comprehensive three-dimensional program.

- The **Textiles** concentration fosters creative thinking, critical inquiry and development of technical facility. Students study the artistic and cultural legacy of textiles in conjunction with historic and contemporary practices. Components of the program are the traditions of textile making (built on repetition, geometry and order) linked with digital design and technology. Students learn felt-making, surface design, screen-printing and weaving (hand-manipulated, loom-controlled and digital).

A concentration does not need to be declared upon admission, but students should declare a concentration no later than completion of ART 30001.

Students in the program are encouraged to take advantage of travel opportunities to New York, Chicago, London, Paris and China. In addition, students can participate in study abroad full semester or summer experiences at Kent State's Florence, Italy location.

### Fully Offered At:

- Kent Campus

## Accreditation

National Association of Schools of Art and Design (NASAD)

## Admission Requirements

The university affirmatively strives to provide educational opportunities and access to students with varied backgrounds, those with special talents and adult students who graduated from high school three or more years ago.

**Freshman Students on the Kent Campus:** The freshman admission policy on the Kent Campus is selective. Admission decisions are based upon the following: cumulative grade point average, ACT and/or SAT scores, strength of high school college preparatory curriculum and grade trends. The Admissions Office at the Kent Campus may defer the admission of students who do not meet admissions criteria but who demonstrate areas of promise for successful college study. Deferred applicants may begin their college coursework at one of seven regional campuses of Kent State University. For more information on admissions, including additional requirements for some academic programs, visit the admissions website for new freshmen.

**Freshman Students on the Regional Campuses:** Kent State campuses at Ashtabula, East Liverpool, Geauga, Salem, Stark, Trumbull and Tuscarawas, as well as the Regional Academic Center in Twinsburg, have open enrollment admission for students who hold a high school diploma, GED or equivalent.

**English Language Proficiency Requirements for International Students:** All international students must provide proof of English language proficiency (unless they meet specific exceptions) by earning a minimum 525 TOEFL score (71 on the Internet-based version), minimum 75 MELAB score, minimum 6.0 IELTS score or minimum 48 PTE score, or by completing the ESL level 112 Intensive Program. For more information on international admission, visit the Office of Global Education's admission website.

**Transfer, Transitioning and Former Students:** For more information about admission criteria for transfer, transitioning and former students, please visit the admissions website.

Transfer applicants to the program who meet the general transfer admission requirements should schedule a meeting with the academic advisor in the School of Art and submit a portfolio to a studio art faculty member to review for proper course placement. The faculty member may specify additional requirements considered reasonable and necessary. Transfer credits are evaluated consistent with the state-wide Transfer Articulation Guides (TAG), although each student will be evaluated individually in terms of his or her ability to perform in the program. Transfer students should make every effort to complete admission requirements before the deadlines and to schedule a portfolio review with before registration.

## Program Learning Outcomes

Graduates of the program will be able to:

1. Demonstrate the ability (skill) to work within their chosen medium/media, and understand associated materials and processes.
2. Demonstrate an understanding of larger contemporary and historical contexts.
3. Demonstrate a high degree of design and visual literacy in their work.
4. Articulate their individual vision in both written and oral form.

## University Requirements

All students in a bachelor's degree program at Kent State University must complete the following university requirements for graduation.

**NOTE:** University requirements may be fulfilled in this program by specific course requirements. Please see Program Requirements for details.

Destination Kent State: First Year Experience	1
Course is not required for students with 25 transfer credits, excluding College Credit Plus, or age 21+ at time of admission.	
Diversity Domestic/Global (DIVD/DIVG)	2 courses
Students must successfully complete one domestic and one global course, of which one must be from the Kent Core.	
Experiential Learning Requirement (ELR)	varies
Students must successfully complete one course or approved experience.	
Kent Core (see table below)	36-37
Writing-Intensive Course (WIC)	1 course
Students must earn a minimum C grade in the course.	
Upper-Division Requirement	39 (or 42)
Students must successfully complete 39 upper-division (numbered 30000 to 49999) credit hours to graduate. Students in a B.A. and/or B.S. degree in the College of Arts and Sciences must complete 42 upper-division credit hours.	
Total Credit Hour Requirement	120
Some bachelor's degrees require students to complete more than 120 credit hours.	

## Kent Core Requirements

Kent Core Composition (KCOMP)	6
Kent Core Mathematics and Critical Reasoning (KMCR)	3

Kent Core Humanities and Fine Arts (KHUM/KFA) (min one course each)	9
Kent Core Social Sciences (KSS) (must be from two disciplines)	6
Kent Core Basic Sciences (KBS/KLAB) (must include one laboratory)	6-7
Kent Core Additional (KADL)	6
<b>Total Credit Hours:</b>	<b>36-37</b>

## Program Requirements

### Major Requirements

Code	Title	Credit Hours
<b>Major Requirements (courses count in major GPA)</b>		
ART 10022	2D COMPOSITION	3
ART 10023	3D COMPOSITION	3
ART 10024	DIGITAL MEDIA	3
ART 30001	COMMON REVIEW <sup>1</sup>	1
ART 40008	PROFESSIONAL PRACTICES IN VISUAL ARTS (WIC) <sup>2</sup>	3
ARTH 22006	ART HISTORY: ANCIENT AND MEDIEVAL ART (KFA)	3
ARTH 22007	ART HISTORY: RENAISSANCE TO MODERN ART (KFA)	3
ARTH 32066	LATE MODERN ART	3
ARTS 14000	DRAWING I	3
ARTS 14001	DRAWING II	3
ARTS 45099	SENIOR THESIS EXHIBITION (ELR) <sup>3</sup>	3
Art History (ARTH) Upper-Division Elective (30000 or 40000 level)		3
Studio Art (ARTS) Upper-Division Electives (30000 or 40000 level) <sup>4</sup>		12
Foundations Electives, choose from the following:		12
ARTS 24002	DRAWING AS A STUDIO PRACTICE	
ARTS 24010	INTRODUCTION TO FINE ART PHOTOGRAPHY	
ARTS 24040	PRINTMAKING I	
ARTS 24051	INTRODUCTION TO SCULPTURE PRACTICE	
ARTS 24061	INTRODUCTION TO PAINTING	
ARTS 25300	TEXTILES: PATTERN	
ARTS 25400	CERAMICS I	
ARTS 25600	INTRODUCTION TO GLASS WORKING	
ARTS 25700	INTRODUCTION TO JEWELRY METALS I	
<b>Additional Requirements (courses do not count in major GPA)</b>		
UC 10097	DESTINATION KENT STATE: FIRST YEAR EXPERIENCE	1
Kent Core Composition		6
Kent Core Mathematics and Critical Reasoning		3
Kent Core Humanities		3
Kent Core Social Sciences (must be from two disciplines)		6
Kent Core Basic Sciences (must include one laboratory)		6-7
Kent Core Additional		6
General Electives (total credit hours depends on earning 120 credit hours, including 39 upper-division credit hours)		7
<b>Concentrations</b>		
Choose from the following:		24
Ceramics		
Drawing		
Glass		
Jewelry, Metals and Enameling		
Painting		



Print Media and Photography  
Sculpture and Expanded Media  
Textiles

Minimum Total Credit Hours: 120

- <sup>1</sup> Students may register for selected Studio Art upper-division courses (ARTS 30000 or 40000 level) prior to successfully completing ART 30001. At the completion of eight specific courses (ART 10022, ART 10023, ART 10024, ARTH 22007, ARTS 14000, ARTS 14001 and two foundation electives), students register for ART 30001 and submit a portfolio of representative studio work selected from these courses to a studio art faculty committee for review. An examination of knowledge of art history is included. Incoming transfer students are expected to provide examples of foundational coursework equivalent to School of Art requirements for ART 30001. The review is a formative assessment of the student's foundations work including a digital portfolio, installation of sampling of works and proficiency in written and oral critical thinking.
- <sup>2</sup> A minimum C grade must be earned to fulfill the writing-intensive requirement.
- <sup>3</sup> Students are required to plan and execute independently a senior thesis exhibition in the area of their declared concentration. The exhibition is presented for review to a committee of at least three School of Art faculty. In addition to presenting the project or exhibition, students must submit a written proposal and written summation (or artist's statement). Students must submit photographic documentation along with the requisite written components at the completion of the committee defense. Students should work closely with a studio art faculty advisor on all aspects of the senior project.
- <sup>4</sup> A maximum 6 credit hours of ARTS 45092 may be applied toward studio art electives. Students may apply this course toward fulfilling general electives, with no maximum credit hours required.

## Ceramics Concentration Requirements

Code	Title	Credit Hours
<b>Concentration Requirements (courses count in major GPA)</b>		
ARTS 24051	INTRODUCTION TO SCULPTURE PRACTICE <sup>1</sup>	3
ARTS 25400	CERAMICS I <sup>1</sup>	3
ARTS 35400	FUNCTIONAL APPROACHES TO CLAY	3
ARTS 35401	SCULPTURAL APPROACHES IN CLAY	3
ARTS 45400	ADVANCED CERAMICS	3
Studio Art (ARTS) Elective		3
Ceramics Electives, choose from the following:		6
ARTS 35400	FUNCTIONAL APPROACHES TO CLAY	
ARTS 35401	SCULPTURAL APPROACHES IN CLAY	
ARTS 45400	ADVANCED CERAMICS	
ARTS 45080	KENT BLOSSOM ART <sup>2</sup>	
ARTS 45095	STUDIO ART: SPECIAL TOPICS <sup>2</sup>	

Minimum Total Credit Hours: 24

- <sup>1</sup> Students who completed ARTS 24051 and/or ARTS 25400 as part of the major foundation electives may choose from any Studio Art (ARTS) 10000-, 20000- 30000- or 40000- level course to meet required credit hours.
- <sup>2</sup> ARTS 45080 and ARTS 45095 may be used to fulfill the concentration elective with approval from a faculty or academic advisor.

## Drawing Concentration Requirements

Code	Title	Credit Hours
<b>Concentration Requirements (courses count in major GPA)</b>		
ARTS 24002	DRAWING AS A STUDIO PRACTICE <sup>1</sup>	3
ARTS 24040	PRINTMAKING I <sup>1</sup>	3
ARTS 24061	INTRODUCTION TO PAINTING <sup>1</sup>	3
ARTS 34002	FIGURE DRAWING	3
ARTS 34003	DRAWING: STRUCTURE AND EXPERIMENTATION	3
ARTS 44002	ADVANCED DRAWING FOR ALL DISCIPLINES	3
Drawing Electives, choose from the following:		6
ARTS 34002	FIGURE DRAWING	
ARTS 34003	DRAWING: STRUCTURE AND EXPERIMENTATION	
ARTS 44002	ADVANCED DRAWING FOR ALL DISCIPLINES	
ARTS 45080	KENT BLOSSOM ART <sup>2</sup>	
ARTS 45095	STUDIO ART: SPECIAL TOPICS <sup>2</sup>	

Minimum Total Credit Hours: 24

- <sup>1</sup> Students who completed ARTS 24002, ARTS 24040 and/or ARTS 24061 as part of the major foundation electives are to choose from the following to meet required credit hours: ARTS 24010, ARTS 25300, ARTS 34042, ARTS 34061 .
- <sup>2</sup> ARTS 45080 and ARTS 45095 may be used to fulfill the concentration elective with approval from a faculty or academic advisor.

## Glass Concentration Requirements

Code	Title	Credit Hours
<b>Concentration Requirements (courses count in major GPA)</b>		
ARTS 24051	INTRODUCTION TO SCULPTURE PRACTICE <sup>1</sup>	3
ARTS 25600	INTRODUCTION TO GLASS WORKING <sup>1</sup>	3
ARTS 35401	SCULPTURAL APPROACHES IN CLAY	3
or ARTS 35700	JEWELRY CONCEPTS AND TECHNIQUES	
or ARTS 35701	METALSMITHING CONCEPTS AND TECHNIQUES	
or ARTS 35702	ENAMELING CONCEPTS AND TECHNIQUES	
ARTS 35603	GLASS BLOWING	3
ARTS 35604	SCULPTURAL AND KILN-FORMED GLASS	3
ARTS 45600	ADVANCED GLASS WORKING	3
Glass Electives, choose from the following:		6
ARTS 35602	FLAMEWORKED GLASS	
ARTS 35603	GLASS BLOWING	
ARTS 35604	SCULPTURAL AND KILN-FORMED GLASS	
ARTS 45600	ADVANCED GLASS WORKING	
ARTS 45080	KENT BLOSSOM ART <sup>2</sup>	
ARTS 45095	STUDIO ART: SPECIAL TOPICS <sup>2</sup>	

Minimum Total Credit Hours: 24

- <sup>1</sup> Students who completed ARTS 24051 and/or ARTS 25600 as part of the major foundation electives are to choose from the following to meet required credit hours: ARTS 24002, ARTS 24061, ARTS 25600, ARTS 35306.
- <sup>2</sup> ARTS 45080 and ARTS 45095 may be used to fulfill the concentration elective with approval from a faculty or academic advisor.

## Jewelry, Metals and Enameling Concentration Requirements

Code	Title	Credit Hours
<b>Concentration Requirements (courses count in major GPA)</b>		
ARTS 25700	INTRODUCTION TO JEWELRY METALS I <sup>1</sup>	3
ARTS 35700	JEWELRY CONCEPTS AND TECHNIQUES	3
ARTS 35701	METALSMITHING CONCEPTS AND TECHNIQUES	3
Studio Art (ARTS) Elective		3
Concentration Elective, choose from the following:		3
ARTS 25300	TEXTILES: PATTERN	
ARTS 25400	CERAMICS I	
ARTS 25600	INTRODUCTION TO GLASS WORKING	
ARTS 35300	TEXTILES: DIMENSIONAL	
ARTS 35301	TEXTILES: PRINT PATTERN	
ARTS 35302	TEXTILES: FELTMAKING	
ARTS 35303	TEXTILES: TAPESTRY	
ARTS 35305	TEXTILES: ACCESSORIES - DESIGN AND PRODUCTION	
ARTS 35306	TEXTILES: SURFACE COLOR AND DESIGN	
ARTS 35350	TEXTILES: DESIGN AND PRODUCTION	
ARTS 35400	FUNCTIONAL APPROACHES TO CLAY	
ARTS 35401	SCULPTURAL APPROACHES IN CLAY	
ARTS 35603	GLASS BLOWING	
ARTS 35604	SCULPTURAL AND KILN-FORMED GLASS	
Jewelry, Metals and Enameling Electives, choose from the following:		9
ARTS 35702	ENAMELING CONCEPTS AND TECHNIQUES	
ARTS 35703	TEXTILE TECHNIQUES IN METAL	
ARTS 44096	INDIVIDUAL STUDY: STUDIO ART	
ARTS 45700	DESIGN AND PRODUCTION	
ARTS 45701	TABLEWARE	
ARTS 45702	ADVANCED ENAMELING	
ARTS 45704	ADVANCED STUDIO JEWELRY METALS ENAMELING	
ARTS 45080	KENT BLOSSOM ART <sup>2</sup>	
ARTS 45095	STUDIO ART: SPECIAL TOPICS <sup>2</sup>	
Minimum Total Credit Hours:		24

- <sup>1</sup> Students who completed ARTS 25700 as part of the major foundation electives may choose from any Studio Art (ARTS) 10000-, 20000-, 30000-, or 40000-level course to meet required credit hours.
- <sup>2</sup> ARTS 45080 and ARTS 45095 may be used to fulfill the concentration elective with approval from a faculty or academic advisor.

## Painting Concentration Requirements

Code	Title	Credit Hours
<b>Concentration Requirements (courses count in major GPA)</b>		
ARTS 24061	INTRODUCTION TO PAINTING <sup>1</sup>	3
ARTS 24002	DRAWING AS A STUDIO PRACTICE <sup>1</sup>	3
ARTS 34061	INTERMEDIATE PAINTING	3
ARTS 34003	DRAWING: STRUCTURE AND EXPERIMENTATION	3
ARTS 34062	PAINTING STRATEGIES: PROCESS AND CONTENT	3
or ARTS 34063	PAINTING STRATEGIES: IMAGE AND CONTENT	
ARTS 44060	ADVANCED PAINTING: PRACTICE AND THEORY	3

Studio Art (ARTS) Elective		3
Painting Elective, choose from the following:		3
ARTS 34062	PAINTING STRATEGIES: PROCESS AND CONTENT	
ARTS 34063	PAINTING STRATEGIES: IMAGE AND CONTENT	
ARTS 44002	ADVANCED DRAWING FOR ALL DISCIPLINES	
ARTS 44060	ADVANCED PAINTING: PRACTICE AND THEORY	
ARTS 45080	KENT BLOSSOM ART <sup>2</sup>	
ARTS 45095	STUDIO ART: SPECIAL TOPICS <sup>2</sup>	

Minimum Total Credit Hours: 24

- <sup>1</sup> Students who completed ARTS 24002 and/or ARTS 24061 as part of the major foundation electives may choose from any Studio Art (ARTS) 10000-, 20000-, 30000-, or 40000-level course(s) to meet required credit hours.
- <sup>2</sup> ARTS 45080 and ARTS 45095 may be used to fulfill the concentration elective with approval from a faculty or academic advisor.

## Print Media and Photography Concentration Requirements

Code	Title	Credit Hours
<b>Concentration Requirements (courses count in major GPA)</b>		
ARTS 24002	DRAWING AS A STUDIO PRACTICE <sup>1</sup>	3
or VCD 18002	PHOTOGRAPHY II	
ARTS 24010	INTRODUCTION TO FINE ART PHOTOGRAPHY <sup>1</sup>	3
ARTS 24040	PRINTMAKING I <sup>1</sup>	3
or VCD 38001	PHOTOGRAPHICS	
ARTS 44010	ADVANCED FINE ART PHOTOGRAPHY	3
or ARTS 44043	ADVANCED PRINTMAKING	
Print Media and Photography Electives, choose from the following:		12
ARTS 34040	PRINTMAKING: INTERMEDIATE INTAGLIO	
ARTS 34041	SERIGRAPHY I	
ARTS 34042	LITHOGRAPHY I	
ARTS 44011	DIGITAL FINE ART PHOTOGRAPHY	
ARTS 44040	PRINTMAKING: ADVANCED INTAGLIO	
ARTS 44041	SERIGRAPHY II	
ARTS 44042	LITHOGRAPHY II	
ARTS 44045	ART OF THE BOOK	
VCD 43051	TYPE HIGH PRESS	
ARTS 45080	KENT BLOSSOM ART <sup>2</sup>	
ARTS 45095	STUDIO ART: SPECIAL TOPICS <sup>2</sup>	

Minimum Total Credit Hours: 24

- <sup>1</sup> Students who completed ARTS 24002, ARTS 24010 and/or ARTS 24040 as part of the major foundation electives may choose from any Studio Art (ARTS) 10000-, 20000-, 30000-, or 40000-level course(s) to meet required credit hours.
- <sup>2</sup> ARTS 45080 and ARTS 45095 may be used to fulfill the concentration elective with approval from a faculty or academic advisor.

## Sculpture and Expanded Media Concentration Requirements

Code	Title	Credit Hours
<b>Concentration Requirements (courses count in major GPA)</b>		
ARTS 24002	DRAWING AS A STUDIO PRACTICE <sup>1</sup>	3
ARTS 24051	INTRODUCTION TO SCULPTURE PRACTICE <sup>1</sup>	3

ARTS 25400	CERAMICS I <sup>1</sup>	3
ARTS 34051	SCULPTURAL OBJECT	3
ARTS 34052	TIME ARTS	3
or ARTS 34053	SITE AND INSTALLATION	
ARTS 44051	ADVANCED SCULPTURAL PRACTICE	3
Sculpture Electives, choose from the following:		6
ARTS 34052	TIME ARTS	
or ARTS 34053	SITE AND INSTALLATION	
ARTS 44096	INDIVIDUAL STUDY: STUDIO ART	
ARTS 44051	ADVANCED SCULPTURAL PRACTICE	
ARTS 45080	KENT BLOSSOM ART <sup>2</sup>	
ARTS 45095	STUDIO ART: SPECIAL TOPICS <sup>2</sup>	

Minimum Total Credit Hours: 24

<sup>1</sup> Students who completed ARTS 24002, ARTS 24051 and/or ARTS 25400 as part of the major foundation electives may choose from any Studio Art (ARTS) 10000-, 20000- or 30000-, or 40000-level course(s) to meet required credit hours.

<sup>2</sup> ARTS 45080 and ARTS 45095 may be used to fulfill the concentration elective with approval from a faculty or academic advisor.

## Textiles Concentration Requirements

Code	Title	Credit Hours
<b>Concentration Requirements (courses count in major GPA)</b>		
ARTS 24051	INTRODUCTION TO SCULPTURE PRACTICE <sup>1</sup>	3
ARTS 24061	INTRODUCTION TO PAINTING <sup>1</sup>	3
ARTS 25300	TEXTILES: PATTERN <sup>1</sup>	3
Textile Electives, choose from the following:		15
ARTS 35300	TEXTILES: DIMENSIONAL	
ARTS 35301	TEXTILES: PRINT PATTERN	
ARTS 35302	TEXTILES: FELTMAKING	
ARTS 35303	TEXTILES: TAPESTRY	
ARTS 35305	TEXTILES: ACCESSORIES - DESIGN AND PRODUCTION	
ARTS 35306	TEXTILES: SURFACE COLOR AND DESIGN	
ARTS 35350	TEXTILES: DESIGN AND PRODUCTION	
ARTS 44096	INDIVIDUAL STUDY: STUDIO ART	
ARTS 45300	TEXTILES: JACQUARD WEAVING	
ARTS 45301	TEXTILES: ADVANCED STUDIO	
ARTS 45304	TEXTILES: PICTORIAL WEAVING	
ARTS 45307	TEXTILES: WEAVING AND COLOR	
ARTS 45080	KENT BLOSSOM ART <sup>2</sup>	
ARTS 45095	STUDIO ART: SPECIAL TOPICS <sup>2</sup>	

Minimum Total Credit Hours: 24

<sup>1</sup> Students who completed ARTS 24051, ARTS 24061 and/or ARTS 25300 as part of the major foundation electives may choose from any Studio Art (ARTS) 10000-, 20000-, 30000-, or 40000-level course(s) to meet required credit hours.

<sup>2</sup> ARTS 45080 and ARTS 45095 may be used to fulfill the concentration elective with approval from a faculty or academic advisor.

## Graduation Requirements

Minimum Major GPA	Minimum Overall GPA
2.500	2.000

• ARTH 12001 is designed for non-art majors, and will not fulfill major requirements for art majors.

## Roadmap

This roadmap is a recommended semester-by-semester plan of study for this major. However, courses designated as critical (!) must be completed in the semester listed to ensure a timely graduation.

Semester One		Credits
ART 10022	2D COMPOSITION	3
ART 10024	DIGITAL MEDIA	3
ARTH 22007	ART HISTORY: RENAISSANCE TO MODERN ART (KFA)	3
ARTS 14000	DRAWING I	3
UC 10097	DESTINATION KENT STATE: FIRST YEAR EXPERIENCE	1
Kent Core Requirement		3
Credit Hours		16
<b>Semester Two</b>		
ART 10023	3D COMPOSITION	3
ARTS 14001	DRAWING II	3
Foundations Elective		3
Kent Core Requirement		3
Kent Core Requirement		3
Credit Hours		15
<b>Semester Three</b>		
ARTH 22006	ART HISTORY: ANCIENT AND MEDIEVAL ART (KFA)	3
Foundations Electives		9
Kent Core Requirement		3
Credit Hours		15
<b>Semester Four</b>		
ART 30001	COMMON REVIEW	1
ARTH 32066	LATE MODERN ART	3
Concentration Requirements or Electives		9
Kent Core Requirement		3
Credit Hours		16
<b>Semester Five</b>		
Concentration Requirements or Electives		6
Art History (ARTH) Upper-Division Elective (30000 or 40000 level)		3
Kent Core Requirement		3
Kent Core Requirement		3
Credit Hours		15
<b>Semester Six</b>		
Concentration Requirement or Elective		3
Studio Art (ARTS) Upper-Division Elective (30000 or 40000 level)		3
Kent Core Requirement		3
Kent Core Requirement		3
General Elective		3
Credit Hours		15
<b>Semester Seven</b>		
ART 40008	PROFESSIONAL PRACTICES IN VISUAL ARTS (WIC)	3
Concentration Requirement or Elective		3
Studio Art (ARTS) Upper-Division Electives (30000 or 40000 level)		6
Kent Core Requirement		3
Credit Hours		15

**Semester Eight**

ARTS 45099 SENIOR THESIS EXHIBITION (ELR)	3
Concentration Requirement or Elective	3
Studio Art (ARTS) Upper-Division Elective (30000 or 40000 level)	3
General Electives	4
Credit Hours	13
Minimum Total Credit Hours:	120

## Studio Art - M.A.

**College of the Arts**

School of Art  
241 Center for the Visual Arts  
Kent Campus  
330-672-2192  
artinfo@kent.edu  
www.kent.edu/art

## Description

The Master of Arts degree in Studio Art serves students with art or design undergraduate experience wishing to continue building skills within a specific studio discipline (textiles, sculpture, printmaking, painting, jewelry/metals/enameling, glass, drawing or ceramics). Students may use the degree to produce a portfolio of work as a pathway to an M.F.A. degree, as an avenue to promotion or advancement in an existing career, or to hone technical skills in a specific studio disciplines for use in industry.

**Fully Offered At:**

- Kent Campus

## Accreditation

National Association of Schools of Art and Design (NASAD)

## Admission Requirements

- Bachelor's degree from an accredited college or university for unconditional admission
- Minimum 3.000 undergraduate GPA on a 4.000 point scale for unconditional admission
- Official transcript(s)
- Curriculum vitae
- Goal statement
- Artist statement (250-500 words)
- Portfolio
- Three letters of recommendation
- English language proficiency - all international students must provide proof of English language proficiency (unless they meet specific exceptions) by earning one of the following:
  - Minimum 550 TOEFL PBT score (paper-based version)
  - Minimum 79 TOEFL IBT score (Internet-based version)
  - Minimum 77 MELAB score
  - Minimum 6.5 IELTS score
  - Minimum 58 PTE score
  - Minimum 110 Duolingo test score

For more information about graduate admissions, please visit the Graduate Studies admission website. For more information on international admission, visit the Office of Global Education's admission website.

## Program Learning Outcomes

Graduates of the program will be able to:

1. Enhance student communication and presentation skills through participation in graduate seminars, critiques and engagement with professional standards.
2. Develop deeper awareness of historical and cultural contexts of art and craft production leading to advanced skills of aesthetic judgement and assessment.
3. Develop capacities of independent inquiry research strategies, problem solving and self-reflexivity with regard to creation of a body of work.
4. Build a strong portfolio to enhance opportunities for further education and/or career and entrepreneurial options.

## Program Requirements

### Major Requirements

Code	Title	Credit Hours
<b>Major Requirements</b>		
Major Electives <sup>1</sup>		20
Art History (ARTH) Electives		6
ART 67199	M.A.THESIS I <sup>2</sup>	6
Minimum Total Credit Hours:		32

<sup>1</sup> After completing 16 credit hours of coursework, students present a body of current art work to a committee of three to five faculty members for review and discussion. Students may take major electives through cross-discipline, seminar-style courses, graduate studio, travel study and/or independent study. Maximum 6 credit hours of travel study courses, and maximum 20 credit hours of graduate studio courses may be applied toward the M.A. degree.

<sup>2</sup> Students' thesis may comprise an installation or a series of collective works, in addition to a written thesis. The written thesis must document and substantiate the visual works through historical context, process or other theoretical premises. Students must present an oral defense of the works to a committee of three to five faculty members, in addition to mounting the installation and preparing the written thesis.

## Candidacy Examination

Successful completion of the candidacy review examination is a requirement in every School of Art graduate program. In the studio majors, it is scheduled after half of the program has been completed. Successful completion of the examination designates the student as a candidate for the degree.

## Studio Art - M.F.A.

**College of the Arts**

School of Art  
241 Center for the Visual Arts

Kent Campus  
330-672-2192  
artinfo@kent.edu  
www.kent.edu/art

## Description

The Master of Fine Art degree in Studio Art is designed to prepare students for careers as independent visual arts through the cultivation and refinement of a successful studio practice. The program emphasizes intensive personal investigation and the development of strong aesthetic and conceptual understanding. In addition to time in their own studio, students have opportunities to enhance existing skills and knowledge by observing undergraduate class demonstrations and critiques.

The M.F.A. is the terminal degree in the studio arts and is a requirement for those who intend to teach visual arts in higher education.

The Studio Art major comprises the following concentrations:

- The **Ceramics** concentration offers an intense focus on artistic development. Through mentorship and a broad spectrum of course offerings, students work closely with faculty advisors to find their own voice as artists. Studio practice is supplemented with art history seminars, visiting artist lectures, summer workshops and travel study programs to New York City, culminating in a solo M.F.A. thesis exhibition.
- The **Drawing** concentration draws upon contemporary practices and discourse in the field to prepare students for a life in the arts. Students are encouraged to work across disciplines and techniques in order to develop a body of work that reflects their independent investigations in drawing. Studio practice is supplemented with art history seminars, visiting artist lectures, summer workshops and travel study programs to New York City, culminating in a solo M.F.A. thesis exhibition.
- The **Glass** concentration is based on the belief that successful creative work results from spending time with one's ideas and receiving constructive and supportive criticism from faculty and peers. The concentration aims to create an atmosphere where students pursue ideas and engage in an extended scholarly dialogue. While building on the legacy of the American Studio Glass Movement, students are fostered to be leaders in redefining the future of studio glassmaking.
- The **Jewelry, Metals and Enameling** concentration allows students to build individual research strategies for developing a coherent and distinctive body of work. Investigations of inter-media and interdisciplinary relationships are part of the curricular focus. Students are expected to be conscious of and involved in contemporary practices, discourse and trends, nationally and globally, among the field and within the larger arts/crafts/design movements. In addition to time in their own studio, students have opportunities to enhance existing skills and knowledge by observing undergraduate class demonstrations and critiques. Students are encouraged to use both traditional and contemporary studio practices while having access to an array of metalsmithing equipment, enameling kilns and a digital fabrication laboratory.
- The **Painting** concentration draws upon contemporary practices and discourse in the field to prepare students for a life in the arts. Students are encouraged to work across disciplines and techniques in order to develop a body of work that reflects their independent investigations in painting. Studio practice is supplemented with art

history seminars, visiting artist lectures, summer workshops and travel study programs to New York City, culminating in a solo M.F.A. thesis exhibition.

- The **Print Media and Photography** concentration aims to strengthen the students' personal vision through emphasis on the conceptual aspects of the printmaking and photography disciplines. Students have access to studios for lithography, etching, relief, silkscreen and digital media, in addition to a darkroom, press room and digital fabrication laboratory. Enrollment is deliberately kept small enough to make possible the faculty mentor/student relationship.
- The **Sculpture and Expanded Media** concentration encourages proficiency in foundational methods of making-modeling, carving and assembly. The concentration is a springboard for students to learn how to communicate ideas through sculptural works. Although sculpture classes are rooted in the history of object-making new forms of sculptural practice (installation, time-based practice, sound and kinetic works) are all part of a comprehensive three-dimensional program.
- The **Textiles** concentration focus on guiding young artists into the world of the professionally active studio artist. Digital design and technology go hand-in-hand with traditional fiber art techniques, while pushing students to think conceptually, experimentally and across disciplines.

### Fully Offered At:

- Kent Campus

## Accreditation

National Association of Schools of Art and Design (NASAD)

## Admission Requirements

- Bachelor's degree from an accredited college or university for unconditional admission
- Minimum 3.000 undergraduate GPA on a 4.000 point scale for unconditional admission
- Official transcript(s)
- Curriculum vitae
- Goal statement
- Artist statement (250-500 words)
- Portfolio
- Three letters of recommendation
- English language proficiency - all international students must provide proof of English language proficiency (unless they meet specific exceptions) by earning one of the following:
  - Minimum 550 TOEFL PBT score (paper-based version)
  - Minimum 79 TOEFL IBT score (Internet-based version)
  - Minimum 77 MELAB score
  - Minimum 6.5 IELTS score
  - Minimum 58 PTE score
  - Minimum 110 Duolingo test score

For more information about graduate admissions, please visit the Graduate Studies admission website. For more information on international admission, visit the Office of Global Education's admission website.



## Program Learning Outcomes

Graduates of the program will be able to:

1. Demonstrate advanced professional competence in some aspect of studio art as exemplified by considerable depth of knowledge and achievement of a significant body of work.
2. Demonstrate a deep and comprehensive awareness of historical and cultural contents of art production.
3. Demonstrate advanced skills of aesthetic judgement and assessment, as well as integration/synthesis and independent thought.
4. Demonstrate an awareness of contemporary art making and relevant issues through dialogues with professional artists and curators.

## Program Requirements

### Major Requirements

Code	Title	Credit Hours
<b>Major Requirements</b>		
ARTS 64000	GRADUATE SEMINAR I: STUDIO ART	3
ART 69199	M.F.A. THESIS <sup>3</sup>	6
Art History (ARTH) Electives		9
Studio Art (ARTS) Electives <sup>1</sup>		9
General Electives <sup>2</sup>		6
<b>Concentration Requirements</b>		
Choose from the following: <sup>4</sup>		27
Ceramics		
Drawing		
Glass		
Jewelry, Metals and Enameling		
Painting		
Print Media and Photography		
Sculpture and Expanded Media		
Textiles		
Minimum Total Credit Hours:		60

<sup>1</sup> Students may take studio art electives through graduate studio, cross-discipline, seminar-style courses, travel study and/or independent study outside of their declared concentration. Maximum 6 credit hours of travel study courses may be applied toward the M.F.A. degree. Maximum 42 credit hours of graduate studio courses may be applied toward the M.F.A. degree from the Studio Arts Electives, General Electives and Concentration Electives.

<sup>2</sup> Students may take elective courses outside the School of Art. Maximum 42 credit hours of graduate studio courses may be applied toward the M.F.A. degree from the Studio Arts Electives, General Electives and Concentration Electives.

<sup>3</sup> Students' thesis may comprise an installation or a series of collective works, in addition to a written thesis. The written thesis must document and substantiate the visual works through historical context, process or other theoretical premises. Students must present an oral defense of the works to a faculty committee, in addition to mounting the installation and preparing the written thesis.

<sup>4</sup> For the declared concentration, students complete graduate studio courses and/or travel study. Maximum 6 credit hours for travel study courses may be applied toward the M.F.A. degree. Maximum 42 credit hours of graduate studio courses may be applied toward the M.F.A. degree from the Studio Arts Electives, General Electives and Concentration Electives.

## Candidacy Examination

Successful completion of the candidacy review examination is a requirement in every School of Art graduate program. In the studio majors, it is scheduled after half of the program has been completed. Successful completion of the examination designates the student as a candidate for the degree.

## Textiles - Minor

### College of the Arts

School of Art  
241 Center for the Visual Arts  
Kent Campus  
330-672-2192  
artinfo@kent.edu  
www.kent.edu/art

## Description

The Textiles minor gives students an opportunity to focus on the craft, design and art of making textiles using a range of processes and materials associated with this distinctive field.

### Fully Offered At:

- Kent Campus

## Admission Requirements

Admission to a minor is open to students declared in a bachelor's degree, the A.A.B. or A.A.S. degree or the A.T.S. degree (not Individualized Program major). Students declared only in the A.A. or A.S. degree or the A.T.S. degree in Individualized Program may not declare a minor. Students may not pursue a minor and a major in the same discipline.

## Minor Requirements

Code	Title	Credit Hours
<b>Minor Requirements</b>		
Minor Elective, choose from the following:		3
ART 10022	2D COMPOSITION	
ART 10023	3D COMPOSITION	
ARTH 32066	LATE MODERN ART	
FDM 20155	MACHINE KNITTING	
FDM 30050	FASHION TECHNOLOGY: COMPUTER INTEGRATED TEXTILE DESIGN	
FDM 45035	HISTORIC TEXTILES	
Textile Art Electives, choose from the following		15
ARTS 25300	TEXTILES: PATTERN	
ARTS 35300	TEXTILES: DIMENSIONAL	
ARTS 35301	TEXTILES: PRINT PATTERN	
ARTS 35302	TEXTILES: FELTMAKING	

ARTS 35303	TEXTILES: TAPESTRY
ARTS 35305	TEXTILES: ACCESSORIES - DESIGN AND PRODUCTION
ARTS 35306	TEXTILES: SURFACE COLOR AND DESIGN
ARTS 35350	TEXTILES: DESIGN AND PRODUCTION
ARTS 45300	TEXTILES: JACQUARD WEAVING
ARTS 45301	TEXTILES: ADVANCED STUDIO
ARTS 45304	TEXTILES: PICTORIAL WEAVING
ARTS 45307	TEXTILES: WEAVING AND COLOR
ARTS 45080	KENT BLOSSOM ART <sup>1</sup>
ARTS 45095	STUDIO ART: SPECIAL TOPICS <sup>1</sup>

Minimum Total Credit Hours: 18

<sup>1</sup> May be used with approval from a faculty or academic advisor.

## Graduation Requirements

Minimum Minor GPA	Minimum Overall GPA
2.250	2.000

- Minimum 6 credit hours in the minor must be upper-division coursework (30000 and 40000 level).
- Minimum 6 credit hours in the minor must be outside of the course requirements for any major or other minor the student is pursuing.
- Minimum 50 percent of the total credit hours for the minor must be taken at Kent State (in residence).

# School of Fashion Design and Merchandising

## College of the Arts

School of Fashion Design and Merchandising  
226 Rockwell Hall  
Kent Campus  
330-672-3010  
FashionSchool@kent.edu  
www.kent.edu/fashion

## Undergraduate Programs

- Fashion Design - B.A.
- Fashion Design - B.F.A.
- Fashion Merchandising - B.S.

## Graduate Programs

- Fashion Industry Studies - M.F.I.S.

## Minors

- Fashion Media

# School of Fashion Design and Merchandising Faculty

- Arnett, Joanne M. (2011), Assistant Professor, M.F.A., Kent State University, 2013
- Benitez, Margarita (2010), Associate Professor, M.F.A., School of the Art Institute of Chicago, 2008

- Bhaduri, Gargi (2014), Assistant Professor, Ph.D., University of Missouri, Columbia, 2014
- Campbell, James R. (2009), Professor & Executive Director, Ph.D., University of California, Davis, 1996
- Campbell, Melissa C. (2010), Assistant Professor
- Carr, Elizabeth M. (2006), Senior Lecturer, B.F.A., Stephens College, 1978
- Chen, Chanjuan (2015), Assistant Professor, Ph.D., University of Wisconsin, Madison, 1993
- Cho, Buhung (2019), Assistant Professor, Ph.D., North Carolina State University at Raleigh, 2019
- Copeland, Lauren E. (2017), Assistant Professor, Ph.D., Kansas State University, 2015
- Dancie, Paula K. (2003), Associate Lecturer, B.F.A., Miami University, 1980
- Ellington, Tameka N. (1995), Associate Professor, B.A., Kent State University, 1999
- Grieder, Trista L. (2010), Associate Lecturer, M.S., Purdue University Global, 2009
- Hahn, Kim H. (2011), Professor, Ph.D., University of Nebraska, Lincoln, 2005
- Hauck, William E. (2000), Assistant Professor, M.A., Northeastern Illinois University, 1981
- Hume, Sara E. (2009), Associate Professor and Museum Curator, M.A., Fashion Institute of Technology, 2003
- Hwang, Ja Young (2015), Assistant Professor, Ph.D., Iowa State University, 2013
- Hyun, Jonghan (2010), Assistant Professor, M.S., University of Missouri, Columbia, 2007
- Kim, Jihyun (2013), Professor, Ph.D., Iowa State University, 2004
- Krifa, Mourad (2017), Assistant Professor, Ph.D., Virginia Polytechnic Institute and State University, 2017
- LaPolla, Kendra L. (2013), Associate Professor, M.F.A., The Ohio State University, 2010
- Leslie, Catherine A. (2002), Professor, Ph.D., The Ohio State University, 2002
- LoMonaco-Benzing, Rachel E. (2018), Assistant Professor, M.S., University of Rhode Island, 2009
- Mehta, Archana (2001), Lecturer, B.A., Kent State University, 2002
- Ohrn, Linda M. (2004), Professor, M.F.A., University of North Texas, 2003
- Palomo-Lovinski, Noel N. (2001), Associate Professor, M.F.A., Kent State University, 2009
- Perrine, William C. (2006), Senior Lecturer, M.A., Western Michigan University, 2004
- Quevedo, Vincent (2008), Associate Professor, M.A., University of Nebraska, Lincoln, 2004
- Riewe, Krissi R. (2019), Assistant Professor
- Snyder, Sara E. (2008), Associate Professor, M.F.A., Kent State University, 2014
- Stanforth, Nancy F. (2000), Associate Professor, Ph.D., The Ohio State University, 1993
- Stone, Hillary M. (2012), Associate Professor, M.S., School of the Art Institute of Chicago, 1999
- Valenzza, Lisa A. (2009), Lecturer, M.A., Kent State University, 2015

- Wachowiak, Marjorie (2012), Associate Lecturer, M.S., Franklin University, 2011
- Yoder, Sue J. (2013), Assistant Professor, M.F.A., Syracuse University, 2008

## Fashion Design and Merchandising (FDM)

### FDM 10010 FASHION FUNDAMENTALS 3 Credit Hours

Introduction to the global fashion industry. Analysis of the business of fashion how it is conceived marketed and sold. Overview of important resources, companies and personnel who impact the industry.

**Prerequisite:** Fashion design, fashion merchandising or pre-fashion design and merchandising major.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

### FDM 10023 FASHION VISUALS 1 Credit Hour

The study of fashion information, research sources, color theory, two-and three-dimensional design and visual presentation formats as they apply to the fashion industry.

**Prerequisite:** Fashion design or fashion merchandising major.

**Corequisite:** FDM 10024.

**Schedule Type:** Lecture

**Contact Hours:** 1 lecture

**Grade Mode:** Standard Letter

### FDM 10024 FASHION VISUALS LABORATORY 2 Credit Hours

Laboratory applications in the study of fashion information, research sources, color theory, two-and three-dimensional design and visual presentation formats as they apply to the fashion industry.

**Prerequisite:** Fashion design or fashion merchandising major.

**Corequisite:** FDM 10023.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 1 lecture, 2 lab

**Grade Mode:** Standard Letter

### FDM 10033 FASHION FABRICS 1 Credit Hour

Study of fabrics, focusing on differentiating between fibers, fabric construction, and fabric names. The student will study fabric properties and how they relate to fabric end usage.

**Prerequisite:** Fashion design or fashion merchandising major.

**Corequisite:** FDM 10034.

**Schedule Type:** Lecture

**Contact Hours:** 1 lecture

**Grade Mode:** Standard Letter

### FDM 10034 FASHION FABRICS LABORATORY 2 Credit Hours

Laboratory applications in the study of fabrics, focusing on differentiating between fibers, fabric construction, and fabric names. The student will study fabric properties and how they relate to fabric end usage.

**Prerequisite:** Fashion design or fashion merchandising major.

**Corequisite:** FDM 10033.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 1 lecture, 2 lab

**Grade Mode:** Standard Letter

### FDM 10053 INTRODUCTION TO FASHION TECHNOLOGY 1 Credit Hour

Introduces students to the fundamental concepts, procedures, and techniques used in digital imaging software and information database software. A survey of current and emerging technologies used in fashion design, merchandising and production contexts is presented.

**Prerequisite:** Fashion design or fashion merchandising major.

**Corequisite:** FDM 10054.

**Schedule Type:** Lecture

**Contact Hours:** 1 lecture

**Grade Mode:** Standard Letter

### FDM 10054 INTRODUCTION TO FASHION TECHNOLOGY LABORATORY 2 Credit Hours

Laboratory applications of fundamental concepts, procedures, and techniques used in digital imaging software and information database software. A survey of current and emerging technologies used in fashion design, merchandising, and production contexts is presented and applied.

**Prerequisite:** Fashion design or fashion merchandising major.

**Corequisite:** FDM 10053.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 1 lecture, 2 lab

**Grade Mode:** Standard Letter

### FDM 10140 FOUNDATIONS OF FASHION DRAWING 3 Credit Hours

Introduction to fashion drawing. Concentration on communicating through drawing the fashion figures and technical flats, accurate garment proportion and construction.

**Prerequisite:** Fashion design major.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 5 other

**Grade Mode:** Standard Letter

### FDM 15055 BASICS OF APPAREL CONSTRUCTION 3 Credit Hours

Introduction to sewing techniques and application processes using industrial sewing machines and other related equipment in basic garment construction. Development of fundamental patternmaking skills.

**Prerequisite:** Fashion design major.

**Schedule Type:** Studio

**Contact Hours:** 6 other

**Grade Mode:** Standard Letter

### FDM 20013 HISTORY OF COSTUME 3 Credit Hours

Chronological study and research of historic costume from the origin of clothing through the French revolutionary era, 19th and 20th century designers, and the influence on contemporary fashion.

**Prerequisite:** HIST 11050 or HIST 11051 or ARTH 22006 or ARTH 22007.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

### FDM 20030 FASHION APPAREL ANALYSIS 3 Credit Hours

Analysis and evaluation of fashion apparel; quality standards of ready-to-wear apparel and factors that influence the aesthetic and functional performance of the end product.

**Prerequisite:** FDM 10033 and FDM 10034; and fashion merchandising major.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**FDM 20050 FASHION TECHNOLOGY APPLICATIONS 3 Credit Hours**

A continuation of content related to technology within the fashion industry. Pattern manipulation, basic technical packages, garment measuring specs, print design and computerized fashion illustration is addressed with the use of industry-specific and off-the-shelf software packages.

**Prerequisite:** FDM 10053 and FDM 10054; and fashion design major.

**Schedule Type:** Studio

**Contact Hours:** 6 other

**Grade Mode:** Standard Letter

**FDM 20121 FASHION DRAWING I 3 Credit Hours**

Advanced study of design illustration techniques as applied to the fashion figure through the use of live model drawing. Concentration on fabric rendering and drape as illustrated on the fashion figure. Introduction to technical flats used for illustrating garment construction.

**Prerequisite:** FDM 10023 and FDM 10024; and FDM 10140; and fashion design major.

**Schedule Type:** Laboratory

**Contact Hours:** 6 lab

**Grade Mode:** Standard Letter

**FDM 20122 FASHION DRAWING II 3 Credit Hours**

Continued study of fashion illustration techniques through the use of Croquis books and figure layouts. Introduction to different design markets and research and how illustration reflects different markets. Instruction on stylizing according to market.

**Prerequisite:** FDM 20121.

**Schedule Type:** Laboratory

**Contact Hours:** 6 lab

**Grade Mode:** Standard Letter

**FDM 20153 FLAT PATTERN 3 Credit Hours**

Development of basic muslins and slopers. Patternmaking principles of dart manipulation and added fullness. Construction techniques for bodice, skirt, sleeve, collar, and pant variations.

**Prerequisite:** FDM 10033 and FDM 10034; and FDM 15055; and fashion design major.

**Schedule Type:** Studio

**Contact Hours:** 6 other

**Grade Mode:** Standard Letter

**FDM 20154 DRAPING 3 Credit Hours**

Development of basic garment shapes using draping techniques. Emphasis placed on torso development, contouring principles and design development on the form. Construction techniques for boned bodice garments and using knit and bias cut fabrics.

**Prerequisite:** FDM 10033 and FDM 10034; and FDM 15055; and fashion design major.

**Schedule Type:** Studio

**Contact Hours:** 6 other

**Grade Mode:** Standard Letter

**FDM 20155 MACHINE KNITTING 3 Credit Hours**

Basic machine knitting techniques, including structure and shaping on industrial handflat knitting machine. Development and analysis of knitted textiles.

**Prerequisite:** None.

**Schedule Type:** Studio

**Contact Hours:** 6 other

**Grade Mode:** Standard Letter

**FDM 20263 FASHION RETAIL INDUSTRY 3 Credit Hours**

Study of retail organizations and structures within the fashion industry. Analysis of supervision organization and operations management of fashion retail institutions.

**Prerequisite:** FDM 10010; and fashion merchandising major.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**FDM 25011 FASHION BRANDING 3 Credit Hours**

An overview of branding in the fashion industry. Analysis of strategies for creating (brand awareness), maintaining (brand management) and enhancing the strength (brand asset management) of fashion brands. Class members work individual as part of a group.

**Prerequisite:** FDM 10010; and fashion merchandising major.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**FDM 30013 FASHION AND POP CULTURE 3 Credit Hours**

An examination of the relationship between different types of design and popular culture in America and Europe in the 20th and 21st centuries.

**Prerequisite:** ARTH 22006 or ARTH 22007 or HIST 11050 or HIST 11051.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**FDM 30050 FASHION TECHNOLOGY: COMPUTER INTEGRATED TEXTILE DESIGN 3 Credit Hours**

The use of Computer Integrated Design tools to produce textile prints, wovens and knits for professional presentation scenarios.

**Prerequisite:** FDM 10053 and FDM 10054.

**Schedule Type:** Studio

**Contact Hours:** 5 other

**Grade Mode:** Standard Letter

**FDM 30083 PROFESSIONAL SEMINAR 3 Credit Hours**

Professional development strategies for fashion and related careers. Emphasis is on verbal and written communication skills.

**Prerequisite:** FDM 20030 and fashion merchandising major; and junior or senior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**FDM 30124 TECHNICAL DESIGN IN THE FASHION INDUSTRY 3 Credit Hours**

Students learn seamstitch classifications, costing, sourcing and lab testing quality assurance. Assembly-line and modular manufacturing are discussed.

**Prerequisite:** FDM 10033, FDM 10034 and FDM 20050.

**Schedule Type:** Laboratory, Lecture, Combined Lecture and Lab

**Contact Hours:** 5 other

**Grade Mode:** Standard Letter

**FDM 30132 APPAREL CONSTRUCTION FOR SPECIALTY MARKETS 1 Credit Hour**

Construction details specific to a market are researched, discussed and duplicated. Only one specialty market covered each class. Markets vary by class.

**Prerequisite:** None.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 1.5 other

**Grade Mode:** Standard Letter

**FDM 30151 ADVANCED PATTERNMAKING 3 Credit Hours**

Flat pattern assignments for advanced, complex garments. Suits, outerwear, cutsew knits will all be covered. Students will make patterns by traditional methods as well as by computer.

**Prerequisite:** FDM 20153 and FDM 20154.

**Schedule Type:** Studio

**Contact Hours:** 6 other

**Grade Mode:** Standard Letter

**FDM 30154 DIGITAL MACHINE KNITTING 3 Credit Hours**

Programming knitting and basics of operating an industrial knitting machine. Students will develop a sample book that includes industrial techniques, such as structure, shaping, jacquard, intarsia cables, etc. One group project to create a garment and one final project based on research of knit industry will be required.

**Prerequisite:** None.

**Schedule Type:** Studio

**Contact Hours:** 6 other

**Grade Mode:** Standard Letter

**FDM 30155 KNITWEAR DESIGN 3 Credit Hours**

Focus is on the design development of knitwear, learning about how to recognize and communicate knit design through graphs and stitch notation as well as what yarns, fibers and machines are appropriate. The students in this class also design knitwear collections.

**Prerequisite:** Fashion design major.

**Schedule Type:** Studio

**Contact Hours:** 5 other

**Grade Mode:** Standard Letter

**FDM 30161 FASHION DESIGN STUDIO I 6 Credit Hours**

Open fashion studio concept to support the creative process of croquis sketching and construction in the production of design work. Students explore markets, selling seasons, and specific construction techniques; and they further develop fashion design process approaches.

**Prerequisite:** FDM 20122 and FDM 20153 and FDM 20154.

**Schedule Type:** Studio

**Contact Hours:** 12 other

**Grade Mode:** Standard Letter

**FDM 30162 FASHION DESIGN STUDIO II 6 Credit Hours**

A continuation of the open fashion studio concept to support the entire creative process to produce design work. Students explore fashion markets, selling seasons, and specific construction techniques; and they further develop fashion design process approaches.

**Prerequisite:** FDM 30161 or FDM 30171 or FDM 30181.

**Schedule Type:** Studio

**Contact Hours:** 12 other

**Grade Mode:** Standard Letter

**FDM 30171 FLORENCE FASHION DESIGN STUDIO I 6 Credit Hours**

Open fashion studio concept to support the creative process of croquis sketching and construction in the production of design work. Students explore markets, selling seasons, and specific construction techniques; and they further develop fashion design process approaches. European markets and travel are incorporated.

**Prerequisite:** FDM 20122 and FDM 20153 and FDM 20154; and special approval.

**Schedule Type:** Studio

**Contact Hours:** 12 other

**Grade Mode:** Standard Letter

**FDM 30172 FLORENCE FASHION DESIGN STUDIO II 6 Credit Hours**

Continuation of the open fashion studio concept to support the entire creative process to produce design work. Students will explore fashion markets, selling seasons, and specific construction techniques; and they will further develop fashion design process approaches. Content specific to the European design experience.

**Prerequisite:** FDM 30161 or FDM 30171 or FDM 30181; and special approval.

**Schedule Type:** Studio

**Contact Hours:** 12 other

**Grade Mode:** Standard Letter

**FDM 30181 NEW YORK CITY FASHION DESIGN STUDIO I 6 Credit Hours**

Open fashion studio concept to support the creative process of croquis sketching and construction in the production of design work. Students explore markets, selling seasons, and specific construction techniques; and they further develop fashion design process approaches. New York City markets and design-specific experiences are incorporated.

**Prerequisite:** FDM 20122 and FDM 20153 and FDM 20154; and special approval.

**Schedule Type:** Studio

**Contact Hours:** 12 other

**Grade Mode:** Standard Letter

**FDM 30182 NEW YORK CITY DESIGN STUDIO II 6 Credit Hours**

Continuation of the open fashion studio concept to support the entire creative process to produce design work. Students explore fashion markets, selling seasons, and specific construction techniques; and they further develop fashion design process approaches. Content specific to the New York City fashion design experience.

**Prerequisite:** FDM 30161 or 30171 or 30181; and special approval.

**Schedule Type:** Studio

**Contact Hours:** 12 other

**Grade Mode:** Standard Letter

**FDM 30260 PRODUCT DEVELOPMENT IN THE FASHION INDUSTRY 3 Credit Hours**

Researching, planning, developing and presenting a fashion product line for an identified target market with regard to prices, styling and timing.

**Prerequisite:** FDM 20030; and fashion merchandising major.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**FDM 30262 FASHION MERCHANDISE PLANNING AND BUYING 3 Credit Hours**

Study of market sources, fashion buying techniques, assortment planning and allocation and quantitative calculations needed in the fashion industry.

**Prerequisite:** FDM 20263; and MATH 11009 or MATH 11010 or MATH 11012 or MATH 10041; and fashion merchandising major.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter



**FDM 35010 CONTEMPORARY FASHION DESIGNERS (WIC) 3 Credit Hours**

Examine and analyze international fashion design and designers of the 20th and 21st centuries. Focuses on the history, development and present context of fashion. Students assemble a portfolio of fashion designers studied to include their biographies, clippings of their work and design inspirations.

**Prerequisite:** FDM 20013; and fashion design major.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Writing Intensive Course

**FDM 35011 FASHION FORECASTING 3 Credit Hours**

Identifying trends to develop fashion forecasts. Interrelationships of forecasting promotion, public relations, and the fashion media will be explored.

**Prerequisite:** FDM 25011.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**FDM 35012 SUSTAINABILITY IN FASHION 3 Credit Hours**

Analysis and development of design process thinking through the lens of sustainability and socially responsibility in fashion. Readings, documentaries and lectures are discussed in class. Interdisciplinary teams create a product that supports sustainable fashion futures.

**Prerequisite:** Fashion design and fashion merchandising majors.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**FDM 35013 FASHION ACCESSORIES 3 Credit Hours**

The merchandising, promotion and sales of accessories. Materials production and resources are examined by category.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**FDM 35060 FASHION IMAGE 3 Credit Hours**

Study of fashion imagery through industry observation, analysis, and examination of fashion photo shoots and styling practices. Combines theoretical and practical approach in planning through individual and collaborative efforts resulting in a fashion industry-inspired photo shoot and styling project.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**FDM 35063 VISUAL MERCHANDISING AND DISPLAY 3 Credit Hours**

Theory and practice of merchandise presentation for the purpose of promotion and sales.

**Prerequisite:** Fashion merchandising major.

**Schedule Type:** Laboratory, Lecture

**Contact Hours:** 1 lecture, 4 lab

**Grade Mode:** Standard Letter

**FDM 35070 THE LUXURY MARKET 3 Credit Hours**

Purpose is to learn, understand, and perceive the luxury market and its parameters. Students gain an understanding of the marketing power of luxury brands and the organization of a luxury products company.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**FDM 35080 FASHION IN THE MEDIA 3 Credit Hours**

Analysis of key fashion magazines and in-depth examination of how they are created. Students learn the fundamentals of different forms of communication and the contributions editors, writers, stylists and photographers make toward the finished product. Exploration of how various media interrelate and contribute to the fashion industry is included. Different forms of writing, editing and interviewing as well as the roles of photography, design and styling are examined. Online outlets, television commentary, fashion advertising and Public Relations are discussed.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**FDM 35121 FASHION MODEL DRAWING 3 Credit Hours**

In-depth study of fashion model drawing and the illustration techniques associated with realistic and stylized depictions of the fashion form. A live fashion model will be part of each class in timed poses with instructor demonstrations and in-class drawing assignments.

**Prerequisite:** FDM 20122; and special approval.

**Schedule Type:** Studio

**Contact Hours:** 6 other

**Grade Mode:** Standard Letter

**FDM 35122 ADVANCED FASHION ILLUSTRATION TECHNIQUES 3 Credit Hours**

Focused approach to advanced fashion illustration techniques beyond the required Drawing I and II. Covers a wide variety of illustration mediums and tools, such as gouache, marker, ink and pastels, deepening skill sets and visual literacy through demonstrations and practice-based assignments.

**Prerequisite:** FDM 20122; and special approval.

**Schedule Type:** Studio

**Contact Hours:** 6 other

**Grade Mode:** Standard Letter

**FDM 35260 MERCHANDISING FOR HOME FURNISHINGS 3 Credit Hours**

Introduction to the various retail classifications of home furnishing merchandise to include furniture, floor coverings, window treatments, household linens, table tops, housewares and decorative accessories.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**FDM 35270 COMPUTER APPLICATIONS IN RETAILING 3 Credit Hours**

The application and use of the microcomputer to solve problems in assortment planning, merchandise management, trading area and site analysis, store planning, planogramming and media planning.

**Prerequisite:** FDM 20263; and MATH 10041 or MATH 11009 or MATH 11010 or MATH 11012; and fashion merchandising major.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**FDM 35280 FASHION ENTREPRENEURSHIP 3 Credit Hours**

In-depth study of entrepreneurship concepts as applied to manufacturers and retailers of apparel including product development, accounting and control merchandising and buying operation and management advertising and promotion.

**Prerequisite:** Junior or senior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**FDM 35900 FLORENCE FASHION STUDY ORIENTATION 1 Credit Hour**

Overview of Florence fashion program, the city of Florence, living and traveling in Europe as a study abroad student. Includes assistance for obtaining required documents. Students must enroll in Florence fashion program to receive credit.

**Prerequisite:** Minimum 2.500 overall GPA; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 1 lecture

**Grade Mode:** Satisfactory/Unsatisfactory

**FDM 35901 ITALIAN FASHION AND CULTURE 3 Credit Hours**

Evolution of the fashion industry in post World War II Italy. Study of the creators, design and production processes creating one of the most successful unions of commercial product and cultural expression world-wide.

**Prerequisite:** FDM 35900.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**FDM 35902 EUROPEAN FASHION MARKETING 3 Credit Hours**

Building on the information acquired in the European Fashion Marketing Seminar lectures and visits, student complete a series of assignments designed to simulate the type of work that a merchandising professional may be asked to complete.

**Corequisite:** FDM 35903.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**FDM 35903 EUROPEAN FASHION MARKETING SEMINAR 3 Credit Hours**

Taken concurrently with European Fashion Marketing and uses a European city as an extended classroom, combining various field trips to directional shopping districts, fashion houses and fashion magazines. Only taught in European settings.

**Corequisite:** FDM 35902.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 3 lecture, 2 lab

**Grade Mode:** Standard Letter

**FDM 35904 EUROPEAN FASHION DESIGN 3 Credit Hours**

Taken concurrently with European Fashion Design Seminar and is designed to introduce couture techniques and enhance techniques of those who possess a basic to advance knowledge of sewing. Only taught in European settings.

**Corequisite:** FDM 35905.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 3 lecture, 2 lab

**Grade Mode:** Standard Letter

**FDM 35905 EUROPEAN FASHION DESIGN SEMINAR 3 Credit Hours**

Taken concurrently with European Fashion Design and uses a European city as an extended classroom, combining various field trips to directional shopping districts, fashion houses and fashion magazines.

**Corequisite:** FDM 35904.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 3 lecture, 2 lab

**Grade Mode:** Standard Letter

**FDM 40050 FASHION TECHNOLOGY:TECHSTYLELAB 3 Credit Hours**

Explores the historical and contemporary links between fashion and technology. Garments, artists, designers, institutions and projects relevant to technological explorations within the fashion context is discussed. Research and experiments conducted with the Fashion School's TechStyleLAB. Students acquire fundamental research skills for fashion technology and develop their own web presence.

**Prerequisite:** FDM 10053 and FDM 10054.

**Schedule Type:** Studio

**Contact Hours:** 5 other

**Grade Mode:** Standard Letter

**FDM 40098 RESEARCH IN FASHION DESIGN AND MERCHANDISING (ELR) 1-3 Credit Hours**

(Repeatable for credit) Research experience and investigation of a topic above the level available through coursework with an individual faculty member. This experience is designed to strengthen student's ability to synthesize different phases and methods of academic research. Students work closely with a faculty member to determine the specific nature, scope, and design of the research experience.

**Prerequisite:** Special approval.

**Schedule Type:** Research

**Contact Hours:** 3-9 other

**Grade Mode:** Standard Letter

**Attributes:** Experiential Learning Requirement

**FDM 40099 SENIOR FASHION DESIGN THESIS I (ELR) 6 Credit Hours**

Senior fashion design thesis collection is created focused on the specialties of each student. This collection is finalized, analyzed and presented in Senior Thesis II. Students engage in a formalized critical development and review process with established external fashion designers.

**Prerequisite:** FDM 30162 or FDM 30172 or FDM 30182; and fashion design majors.

**Schedule Type:** Senior Project/Honors Thesis

**Contact Hours:** 12 other

**Grade Mode:** Standard Letter

**Attributes:** Experiential Learning Requirement

**FDM 40121 FASHION PORTFOLIO I 3 Credit Hours**

Students in the course develop a professional design portfolio that will emphasize in-depth individual investigation of specific apparel markets, target customers and seasons, displaying various illustrative techniques. Croquis books, technical packets and line plans will be used.

**Prerequisite:** FDM 30161 or FDM 30171 or FDM 30181; and FDM 30162 or FDM 30172 or FDM 30182.

**Schedule Type:** Laboratory

**Contact Hours:** 6 lab

**Grade Mode:** Standard Letter

**FDM 40122 FASHION PORTFOLIO II 3 Credit Hours**

A continuation of FDM 40121. Students continue development of design portfolio that emphasizes their strengths in design and presentation. In addition, there is continued progress in croquis books and development of seasonal line plans.

**Prerequisite:** FDM 40121.

**Schedule Type:** Laboratory

**Contact Hours:** 6 lab

**Grade Mode:** Standard Letter

**FDM 40141 FASHION STUDIO III 3 Credit Hours**

Development of pattern work, specification sheets and muslins for original line. Faculty and external professional critiques.

**Prerequisite:** FDM 30161 and FDM 30162; or FDM 30171 and FDM 30172; or FDM 30181 and FDM 30182.

**Schedule Type:** Laboratory

**Contact Hours:** 6 lab

**Grade Mode:** Standard Letter

**FDM 40199 SENIOR FASHION DESIGN THESIS II (ELR) 3 Credit Hours**

Continuation of Senior Fashion Design Thesis I. Finalize senior thesis project; critical review and reflection on outcome in a short analysis. The final thesis submission will be displayed through a juried venue.

**Prerequisite:** FDM 40099.

**Schedule Type:** Senior Project/Honors Thesis

**Contact Hours:** 6 other

**Grade Mode:** Standard Letter

**Attributes:** Experiential Learning Requirement

**FDM 40270 FASHION MARKETING 3 Credit Hours**

Examination of fashion producers' and retailers' roles in fashion marketing research. Analysis of consumer motivation through research to develop sales strategies in relationship to marketing strategies.

**Prerequisite:** FDM 35011, MATH 10041 and MKTG 25010.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**FDM 40291 SEMINAR IN FASHION MERCHANDISING (WIC) 3 Credit Hours**

(Repeatable for credit) Capstone course in Fashion Merchandising. Builds and expands on all merchandising-related coursework with the goal of integrating content and applying it to real-life scenarios through critical thinking and analysis. A coherent portfolio demonstrating student efficacy with overall program content is completed.

**Prerequisite:** FDM 30260, FDM 30262, FDM 35011 and FDM 35270.

**Schedule Type:** Seminar

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**Attributes:** Writing Intensive Course

**FDM 45012 TEXTILES AND APPAREL IN THE GLOBAL ECONOMY 3 Credit Hours**

Global perspective on the production and marketing of textiles and apparel; historical geographic and economic factors that influence the world trade in soft goods.

**Prerequisite:** FDM 30262 and 35270.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**FDM 45035 HISTORIC TEXTILES 3 Credit Hours**

(Slashed with FDM 55035) Identification and analysis of textile fabrics as the reflection of culture from ancient times to present.

**Prerequisite:** Fashion design or fashion merchandising major.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**FDM 45045 COLLABORATIVE FASHION PRODUCTION 3 Credit Hours**

Exploration of product production process from concept to a marketable product. Utilizes introductory pattern making, sewing skills, and project management to create fashion apparel products.

**Prerequisite:** Fashion design or fashion merchandising major.

**Schedule Type:** Studio

**Contact Hours:** 6 other

**Grade Mode:** Standard Letter

**FDM 45093 VARIABLE TITLE WORKSHOP-FASHION DESIGN AND MARKETING 1-3 Credit Hours**

(Repeatable for a total of 6 hours) Special fee actual cost basis.

**Prerequisite:** Special approval.

**Schedule Type:** Workshop

**Contact Hours:** 1-3 other

**Grade Mode:** Satisfactory/Unsatisfactory

**FDM 45095 SPECIAL TOPICS 1-3 Credit Hours**

(Repeatable for credit) Variable content relevant to the field of fashion.

**Prerequisite:** Permission.

**Schedule Type:** Lecture

**Contact Hours:** 1-3 lecture

**Grade Mode:** Standard Letter

**FDM 45096 INDIVIDUAL INVESTIGATION 1-3 Credit Hours**

(Repeatable for credit) Individual investigation of topic above the level available through coursework. Requires submission of and approval of project proposal prior to registration.

**Prerequisite:** Permission.

**Schedule Type:** Individual Investigation

**Contact Hours:** 1-3 other

**Grade Mode:** Standard Letter

**FDM 45192 INTERNSHIP IN FASHION MERCHANDISING (ELR) 3 Credit Hours**

Supervised practical experience in the fashion industry. Eligibility requirements available from the School of Fashion Design and Merchandising field studies coordinator.

**Prerequisite:** FDM 30083 and 30262; and fashion merchandising major; and special approval for internship site.

**Schedule Type:** Practical Experience

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**Attributes:** Experiential Learning Requirement

**FDM 45212 FASHION SHOW PRODUCTIONS 3 Credit Hours**

Analyses of fashion show formats are considered for promotion purposes. Production planning, organization and physical requirements are studied. Class produces a fashion show.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**FDM 45292 INTERNSHIP IN FASHION DESIGN (ELR) 3 Credit Hours**

Supervised practical experience in the fashion industry. Eligibility requirements available from the School of Fashion Design and Merchandising field studies coordinator.

**Prerequisite:** FDM 20122, FDM 20153 and FDM 20154; and fashion design major; and special approval for internship site.

**Schedule Type:** Practical Experience

**Contact Hours:** 9 other

**Grade Mode:** Standard Letter

**Attributes:** Experiential Learning Requirement

**FDM 45392 FIELD EXPERIENCE: FASHION STUDY TOUR (ELR) 1-3 Credit Hours**

(Repeatable for credit) Visit to domestic or foreign fashion markets, including design and fabric houses or showrooms, retail stores, buying offices and other areas of the fashion industry.

**Prerequisite:** Fashion design or fashion merchandising major; and special approval.

**Schedule Type:** Field Experience

**Contact Hours:** 12-36 other

**Grade Mode:** Satisfactory/Unsatisfactory

**Attributes:** Experiential Learning Requirement

**FDM 45492 FIELD EXPERIENCE STUDY TOUR FOR NYC STUDIO STUDENTS (ELR) 3 Credit Hours**

(Repeatable for credit) Visit to the New York fashion market including design and fabric houses or showrooms, retail stores, buying offices and other areas of the fashion industry.

**Prerequisite:** Fashion design or fashion merchandising major; and special approval.

**Schedule Type:** Field Experience

**Contact Hours:** 3 other

**Grade Mode:** Satisfactory/Unsatisfactory

**Attributes:** Experiential Learning Requirement

**FDM 45592 FIELD EXPERIENCE EUROPEAN FASHION STUDY TOUR FOR FLORENCE STUDENTS (ELR) 3 Credit Hours**

(Repeatable for credit) Visit to European fashion markets including design and fabric houses or showrooms, retail stores, buying offices and other areas of the fashion industry.

**Prerequisite:** Fashion design or fashion merchandising major.

**Schedule Type:** Field Experience

**Contact Hours:** 3 other

**Grade Mode:** Satisfactory/Unsatisfactory

**Attributes:** Experiential Learning Requirement

**FDM 55035 HISTORIC TEXTILES 3 Credit Hours**

(Slashed with FDM 45035) Identification and analysis of textile fabrics as the reflection of culture from ancient times to present.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**FDM 60010 THEORIES AS APPLIED TO THE FASHION INDUSTRY 3 Credit Hours**

Focuses on the meaning, context and intent of fashion in contemporary society. Examination of seminal theories and constructs that inform understanding and ability to address complex issues derived from the fashion industry setting.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**FDM 60011 THE FASHION INDUSTRY: A UNIFYING LENS 3 Credit Hours**

This course is designed to make connections, synthesize, and develop understanding of the fashion industry. Students will participate in informed critical discussion, written, and visual work, guided by interaction with multiple stakeholders and concluded with a final paper and presentation that identifies an area where research through practice can expand knowledge in the field.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**FDM 60020 FASHION INDUSTRY DESIGN MANAGEMENT 3 Credit Hours**

In-depth study of the relationship between creativity and efficiency in the fashion industry. Provides insight into how project managers can nurture innovation in an organizational context.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**FDM 60031 FORMS OF INQUIRY IN THE FASHION INDUSTRY 3 Credit Hours**

Critical evaluation of research, theoretical and scholarly review of articles related to the fashion industry. Learn and practice skills needed to understand and critically evaluate research, theory and scholarly works. Examine in-depth scholarly literature as applied to one topic within the fashion industry. Write and present a scholarly review of literature.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**FDM 60050 TECHSTYLELAB: DIGITAL DESIGN AND NEW MEDIA IN THE FASHION INDUSTRY 3 Credit Hours**

Exploration of the intersection of New Media and Fashion. Includes research into analog design methods and digital systems of production and the supply chain management. Topics include various research and design topics such as mass-customization, co-creation, material ecology, digital craft and future craft practices.

**Prerequisite:** Graduate standing.

**Schedule Type:** Laboratory, Lecture, Combined Lecture and Lab

**Contact Hours:** 1 lecture, 2 lab

**Grade Mode:** Standard Letter

**FDM 60092 FASHION INDUSTRY PRACTICUM 1-6 Credit Hours**

(Course is repeatable for credit) Practicum is an off-campus progressive process involving a number of specific guided experiences with a fashion agency or company. This course is intended to bridge the gap between the theoretical and abstract learning gained in the classroom with real-world concrete applications. Students will be required to produce a substantial report on an innovation.

**Prerequisite:** FDM 60011; and enrolled in the master of fashion industry studies (MFIS) degree; and graduate standing; and special approval from the graduate supervisory committee.

**Schedule Type:** Practical Experience

**Contact Hours:** 3-18 other

**Grade Mode:** Standard Letter

**FDM 60093 WORKSHOPS ON CURRENT TOPICS IN THE FASHION INDUSTRY 1-3 Credit Hours**

(Course is repeatable) Students will be encouraged to take advantage of courses that focus on professional renewal or mastery and application of knowledge and skills that address a range of problems or issues related to fashion industry practice. The workshops will be offered at our NYC, Florence, and Kent campuses.

**Prerequisite:** Graduate standing.

**Schedule Type:** Workshop

**Contact Hours:** 1-3 other

**Grade Mode:** Satisfactory/Unsatisfactory

**FDM 60098 RESEARCH PROJECT IN FASHION INDUSTRY 3 Credit Hours**

(Repeatable for credit) Research experience with an individual faculty member designed to strengthen student's ability to synthesize different phases and methods of research. Students work closely with faculty to determine the specific nature, scope and design of the research experience. Requires submission of and approval of project proposal prior to registration.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Research

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**FDM 60100 ADVANCED FASHION INDUSTRY PRACTICE 3 Credit Hours**

This capstone course is centered in research as both a practice and a process. Students will pursue case studies in which they research, interpret and aim to advance fashion industry practices. Informed by industry observation and experience, utilizing and engaging with a variety of research methods, students will document findings, analyze, reflect, and present their own pragmatic implications drawn from and applied to the fashion industry. The aim of the course is to challenge students to advance their research and analytical skills, to cross disciplinary boundaries, and to develop new and original perspectives of industry research through practice.

**Prerequisite:** FDM 60031; and enrolled in the master of fashion industry studies (MFIS) degree; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**FDM 60162 ADVANCED FASHION INDUSTRY DESIGN AND PRODUCTION 3 Credit Hours**

This process-oriented course focuses on studio investigation of complex formal and spatial constructs in apparel design and production. The course will discuss and examine a variety of current approaches including those that are interdisciplinary and utilize design thinking in a fashion industry context. Students will use methods and tools for fashion research to explore new techniques in the development of design concepts that challenge current practice. Students are encouraged to think critically about design problems and processes while seeking discoveries through experimentation, resulting in a body of work examined by critique and exhibition. Examinable material includes written and visual documentation, which is then retained as the archival record of the research.

**Prerequisite:** Graduate standing; and special approval from the graduate studies coordinator.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**FDM 60199 THESIS I 2-6 Credit Hours**

(Repeatable for credit) Thesis students must register for a maximum of 6 credits, 2 to 6 credits in a single semester, distributed over several semesters if desired.

**Prerequisite:** Graduate standing; and special approval from graduate supervisory committee.

**Schedule Type:** Masters Thesis

**Contact Hours:** 2-6 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**FDM 60299 THESIS II 2 Credit Hours**

(Course is repeatable) Continuing registration required of master's students who have completed the initial 6 hours of thesis and continuing until all degree requirements are met.

**Prerequisite:** FDM 60199; and graduate standing; and special approval from the graduate supervisory committee.

**Schedule Type:** Masters Thesis

**Contact Hours:** 2 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**FDM 63011 VISUAL PRESENTATION IN THE FASHION INDUSTRY 3 Credit Hours**

This course explores the multiple methods of visual presentation practiced in the fashion industry through applications of digital and physical concepts. Students will examine and discuss current fashion industry approaches utilized by creative talent, merchants, and other stakeholders. Focus will be on developing visual communicators who can convey unique brand stories and complex ideas through use of various forms of media. Students will learn to establish branding and visualization of their own work and research to help promote their professional identity.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter



**FDM 65010 SUSTAINABLE CONCEPTS AND PRACTICES IN THE FASHION INDUSTRY 3 Credit Hours**

This course will discuss and examine the most current approaches to sustainability in fashion. The different facets, benefits or shortcomings of each approach will be analyzed with an eye to researching viable solutions to future practices in manufacturing, material selection, design and business. Course embeds practice-based approaches to sustainable development.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**FDM 65045 FASHION INDUSTRY MERCHANDISE MANAGEMENT 3 Credit Hours**

This course will discuss the overview of the merchandising process - planning, developing, and presenting merchandise lines in the fashion industry. Core merchandising concepts and principles taught in this class include merchandise performance measures, pricing mechanics, wholesale and retail pricing strategy, merchandise budgets and assortment, vendor relationships and negotiations, and merchandise replenishment management. This course will examine such concepts as applied to both manufacturers, wholesalers, and retailers of fashion merchandise.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**FDM 65055 ENTREPRENEURIAL LEADERSHIP AND SUSTAINABILITY IN THE FASHION INDUSTRY 3 Credit Hours**

This course will discuss the importance of the entrepreneurial leadership and innovation as competitive advantage in the fashion industry. Students will examine the conscious leadership concepts and principles from both small/medium enterprises and large corporations of the fashion industry. By applying conscious capitalism approach, the course will introduce more progressive and purposeful ways to advance sustainable practices to benefit all five stakeholders in the fashion industry - society, partners, investors, customers, and employees.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**FDM 65065 SUPPLY CHAIN MANAGEMENT IN THE FASHION INDUSTRY 3 Credit Hours**

This course examines supply chain within the fashion industry and basic theories and principles that guide decision-making in the supply chain. Students will learn how supply chain management can be used to gain a competitive advantage in the fashion industry, comprehend buyer-supplier relationships, supply chain transparency, product recalls, sourcing issues, and other challenges in the global fashion supply chain. Attention will be given to understanding sustainable practices and future developments within the global fashion supply chain.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**FDM 65095 FASHION INDUSTRY SPECIAL TOPICS 1-3 Credit Hours**  
(Repeatable for a maximum of 6 credit hours) Variable content relevant to the field of fashion.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 1-3 lecture

**Grade Mode:** Standard Letter

**FDM 65096 INDIVIDUAL INVESTIGATION IN THE FASHION INDUSTRY 1-3 Credit Hours**

(Repeatable for credit) Individual investigation of topic above the level available through coursework. Requires submission of and approval of project proposal prior to registration.

**Prerequisite:** Graduate standing.

**Schedule Type:** Individual Investigation

**Contact Hours:** 3-9 other

**Grade Mode:** Standard Letter

## Fashion Design - B.A.

**College of the Arts**

School of Fashion Design and Merchandising

226 Rockwell Hall

Kent Campus

330-672-3010

FashionSchool@kent.edu

www.kent.edu/fashion

## Description

The Bachelor of Arts degree in Fashion Design integrates conceptual, technical and production design knowledge and skills, leading to a synthesis of the design process from concept to production. These processes include color, design and trend research; technical sketching and rendered illustration; pattern-making and garment construction; analysis of appropriate fit and fabric selection; and the ability to communicate specifications for production using industry standards appropriate to specific markets.

The B.A. degree in Fashion Design promotes an emphasis on the diversity of studio practice and liberal art experiences. Students have the option to select coursework offerings to gain expertise in a variety of specialties that connect directly to fashion design, such as wearable technology applications, garment knitting, illustration and/or accessory design.

The degree program prepares students for professional careers by developing technical competency, creative/independent problem solving and conceptual understanding necessary for the challenges of a career in the creative industries. Students develop portfolios for presentation at industry interviews and are prepared to be strongly competitive for any entry-level design position in the industry. In addition, students participate in a study abroad/away experience, which includes opportunities to study for a semester in New York City and Florence, Italy, as well as through collaborative partnership programs with the Paris American Academy, Hong Kong Polytechnic University and Regent's University in London.

When enrolled in junior-level fashion design studio courses, fashion design students may complete the application process to declare the Bachelor of Fine Arts degree or chose to continue pursuing the B.A. degree. The decision as to which degree is best for a particular student depends on the student's educational and career goals, academic

standing, performance in studio coursework and an approved 'B.F.A. Proposal.'

### Fully Offered At:

- Kent Campus

## Accreditation

National Association of Schools of Art and Design (NASAD).

## Admission Requirements

The university affirmatively strives to provide educational opportunities and access to students with varied backgrounds, those with special talents and adult students who graduated from high school three or more years ago.

**Freshman Students:** Admission to the Fashion Design major is selective. Prospective applicants must have a minimum 3.000 overall grade point average (on a 4.000 scale); and a minimum 21 ACT composite score or a minimum 1060 SAT score.

**Transfer Students:** Admission to the Fashion Design major requires a minimum 2.750 overall GPA based on minimum 24 credit hours of college-level coursework at an accredited institution. Those students meeting this GPA requirement but with fewer than 24 credit hours will be evaluated as new freshmen.

Students who do not meet the criteria for admission to the Fashion Design major may be eligible for admission to the Pre-Fashion Design and Merchandising non-degree major. In addition, students who do not meet the admission criteria may initiate the process for declaring the B.A. degree in Fashion Design after completing minimum 12 credit hours of non-developmental coursework at Kent State University and earning a minimum 2.750 overall GPA.

**English Language Proficiency Requirements for International Students:** All international students must provide proof of English language proficiency (unless they meet specific exceptions) by earning a minimum 525 TOEFL score (71 on the Internet-based version), minimum 75 MELAB score, minimum 6.0 IELTS score or minimum 48 PTE Academic score, or by completing the ELS level 112 Intensive Program. For more information on international admission, visit the Office of Global Education's admission website.

## Program Learning Outcomes

Graduates of this program will be able to:

1. Understand the fashion industry, fashion markets, fashion products, and services
2. Demonstrate understanding of integrating conceptual, technical and production design knowledge and skills, leading to a synthesis of the design process from concept to production.
3. Apply knowledge and skills in the use of basic tools, techniques, and processes sufficient to produce work from draft or specifications to finished product, including skills in portfolio preparation.
4. Articulate conceptual and critical thinking applicable to the fashion industry.
5. Employ research processes and practices employed in the fashion industry.

6. Articulate professionalism and communication skills in the appropriate creative industry.

## University Requirements

All students in a bachelor's degree program at Kent State University must complete the following university requirements for graduation.

**NOTE:** University requirements may be fulfilled in this program by specific course requirements. Please see Program Requirements for details.

Destination Kent State: First Year Experience	1
Course is not required for students with 25 transfer credits, excluding College Credit Plus, or age 21+ at time of admission.	
Diversity Domestic/Global (DIVD/DIVG)	2 courses
Students must successfully complete one domestic and one global course, of which one must be from the Kent Core.	
Experiential Learning Requirement (ELR)	varies
Students must successfully complete one course or approved experience.	
Kent Core (see table below)	36-37
Writing-Intensive Course (WIC)	1 course
Students must earn a minimum C grade in the course.	
Upper-Division Requirement	39 (or 42)
Students must successfully complete 39 upper-division (numbered 30000 to 49999) credit hours to graduate. Students in a B.A. and/or B.S. degree in the College of Arts and Sciences must complete 42 upper-division credit hours.	
Total Credit Hour Requirement	120
Some bachelor's degrees require students to complete more than 120 credit hours.	

## Kent Core Requirements

Kent Core Composition (KCMP)	6
Kent Core Mathematics and Critical Reasoning (KMCR)	3
Kent Core Humanities and Fine Arts (KHUM/KFA) (min one course each)	9
Kent Core Social Sciences (KSS) (must be from two disciplines)	6
Kent Core Basic Sciences (KBS/KLAB) (must include one laboratory)	6-7
Kent Core Additional (KADL)	6
<b>Total Credit Hours:</b>	<b>36-37</b>

## Program Requirements

### Major Requirements

Code	Title	Credit Hours
<b>Major Requirements (courses count in major GPA)</b>		
FDM 10010	FASHION FUNDAMENTALS	3
FDM 10023	FASHION VISUALS	1
FDM 10024	FASHION VISUALS LABORATORY	2
FDM 10033	FASHION FABRICS	1
FDM 10034	FASHION FABRICS LABORATORY	2
FDM 10053	INTRODUCTION TO FASHION TECHNOLOGY	1
FDM 10054	INTRODUCTION TO FASHION TECHNOLOGY LABORATORY	2
FDM 10140	FOUNDATIONS OF FASHION DRAWING	3
FDM 15055	BASICS OF APPAREL CONSTRUCTION	3

FDM 20013	HISTORY OF COSTUME	3
FDM 20050	FASHION TECHNOLOGY APPLICATIONS	3
FDM 20121	FASHION DRAWING I	3
FDM 20122	FASHION DRAWING II	3
FDM 20153	FLAT PATTERN	3
FDM 20154	DRAPING	3
FDM 35010	CONTEMPORARY FASHION DESIGNERS (WIC) <sup>1</sup>	3
FDM 40121	FASHION PORTFOLIO I	3
FDM 40122	FASHION PORTFOLIO II	3
FDM 45292	INTERNSHIP IN FASHION DESIGN (ELR)	3
Additional Major Electives, choose from the following: <sup>2</sup>		15
Fashion Study Away Requirement <sup>3</sup>		
Fashion Design and Merchandising (FDM) Elective		
Accounting (ACCT) Upper-Division Electives (30000 or 40000 level)		
Architectural Studies (ARCS) Upper-Division Electives (30000 or 40000 level)		
Art History (ARTH) Upper-Division Electives (30000 or 40000 level)		
Art Studio (ARTS) Upper-Division Electives (30000 or 40000 level)		
Business Administration Interdisciplinary (BUS) Upper-Division Electives (30000 or 40000 level)		
Design Innovation (DI) Upper-Division Electives (30000 or 40000 level)		
Entrepreneurship (ENTR) Upper-Division Electives (30000 or 40000 level)		
Finance (FIN) Upper-Division Electives (30000 or 40000 level)		
Journalism and Mass Communication (JMC) Upper-Division Electives (30000 or 40000 level)		
Management (MGMT) Upper-Division Electives (30000 or 40000 level)		
Marketing (MKTG) Upper-Division Electives (30000 or 40000 level)		
Theatre (THEA) Upper-Division Electives (30000 or 40000 level)		
Fashion Design Studio I Electives, choose from the following:		6
FDM 30161	FASHION DESIGN STUDIO I	
FDM 30171	FLORENCE FASHION DESIGN STUDIO I	
FDM 30181	NEW YORK CITY FASHION DESIGN STUDIO I	
Fashion Design Studio II Electives, choose from the following:		6
FDM 30162	FASHION DESIGN STUDIO II	
FDM 30172	FLORENCE FASHION DESIGN STUDIO II	
FDM 30182	NEW YORK CITY DESIGN STUDIO II	
<b>Additional Requirements (courses do not count in major GPA)</b>		
ARTH 22006	ART HISTORY: ANCIENT AND MEDIEVAL ART (KFA)	3
ARTH 22007	ART HISTORY: RENAISSANCE TO MODERN ART (KFA)	3
ECON 22060	PRINCIPLES OF MICROECONOMICS (KSS)	3
MKTG 25010	PRINCIPLES OF MARKETING	3
UC 10097	DESTINATION KENT STATE: FIRST YEAR EXPERIENCE	1
Algebra and Calculus Elective, choose from the following:		3-4
MATH 11009	MODELING ALGEBRA (KMCR)	
MATH 11010	ALGEBRA FOR CALCULUS (KMCR)	
MATH 11012	INTUITIVE CALCULUS (KMCR)	
Kent Core Composition		6
Kent Core Humanities		3
Kent Core Social Sciences (must be from two disciplines)		3
Kent Core Basic Sciences (must include one laboratory)		6-7
Kent Core Additional		6

General Electives (total credit hours depends on earning 120 credit hours, including 39 upper-division credit hours) 5

Minimum Total Credit Hours: 120

<sup>1</sup> A minimum C grade must be earned to fulfill the writing-intensive requirement.

<sup>2</sup> Maximum 6 credit hours of FDM 45093 can be used as an Additional Major Elective.

Maximum 6 credit hours from each non-Fashion Design and Merchandising (FDM) subject area can be used as an Additional Major Elective.

<sup>3</sup> Students are required to participate in a study away opportunity. Students must have minimum 2.500 overall GPA to participate in this study away requirement. Choose from the following: FDM 30171; FDM 30172; FDM 30181; FDM 30182; FDM 35070; FDM 35080; FDM 35901; FDM 35902; FDM 35903; FDM 35904; FDM 35905; FDM 45392; FDM 45492; FDM 45592.

## Graduation Requirements

Minimum Major GPA	Minimum Overall GPA
2.500	2.500

- Participation in a study abroad/away experience
- Minimum 2.500 GPA overall required for internship
- Minimum 2.500 GPA overall required for study away

## Roadmap

This roadmap is a recommended semester-by-semester plan of study for this major. However, courses designated as critical (!) must be completed in the semester listed to ensure a timely graduation.

Semester One		Credits
ARTH 22006	ART HISTORY: ANCIENT AND MEDIEVAL ART (KFA)	3
!	FDM 10010 FASHION FUNDAMENTALS	3
	FDM 10023 FASHION VISUALS	1
	FDM 10024 FASHION VISUALS LABORATORY	2
	FDM 15055 BASICS OF APPAREL CONSTRUCTION	3
	UC 10097 DESTINATION KENT STATE: FIRST YEAR EXPERIENCE	1
Kent Core Requirement		3
Credit Hours		16
Semester Two		Credits
ARTH 22007	ART HISTORY: RENAISSANCE TO MODERN ART (KFA)	3
!	FDM 10033 FASHION FABRICS	1
!	FDM 10034 FASHION FABRICS LABORATORY	2
	FDM 10053 INTRODUCTION TO FASHION TECHNOLOGY	1
	FDM 10054 INTRODUCTION TO FASHION TECHNOLOGY LABORATORY	2
	FDM 10140 FOUNDATIONS OF FASHION DRAWING	3
Algebra and Calculus Elective		3-4
Credit Hours		15
Semester Three		Credits
ECON 22060	PRINCIPLES OF MICROECONOMICS (KSS)	3
!	FDM 20121 FASHION DRAWING I	3
	FDM 20050 FASHION TECHNOLOGY APPLICATIONS	3
	FDM 20153 FLAT PATTERN	3
Kent Core Requirement		3
Credit Hours		15
Semester Four		Credits
!	FDM 20013 HISTORY OF COSTUME	3
!	FDM 20122 FASHION DRAWING II	3
	FDM 20154 DRAPING	3
	MKTG 25010 PRINCIPLES OF MARKETING	3
Additional Major Elective		3
Credit Hours		15
Semester Five		Credits
FDM 35010	CONTEMPORARY FASHION DESIGNERS (WIC)	3
!	Fashion Design Studio I Electives	6
Additional Major Elective		3
Kent Core Requirement		3
Credit Hours		15
Semester Six		Credits
!	Fashion Design Studio II Electives	6
Additional Major Elective		3
Kent Core Requirement		3
Credit Hours		12
Third Summer Term		Credits
FDM 45292	INTERNSHIP IN FASHION DESIGN (ELR)	3
Credit Hours		3
Semester Seven		Credits
!	FDM 40121 FASHION PORTFOLIO I	3

Kent Core Requirement	3	
Kent Core Requirement	3	
Kent Core Requirement	3	
General Electives	3	
Credit Hours		15
Semester Eight		Credits
!	FDM 40122 FASHION PORTFOLIO II	3
Additional Major Elective		6
Kent Core Requirement		3
General Electives		2
Credit Hours		14
Minimum Total Credit Hours:		120

## Fashion Design - B.F.A.

### College of the Arts

School of Fashion Design and Merchandising

226 Rockwell Hall

Kent Campus

330-672-3010

FashionSchool@kent.edu

www.kent.edu/fashion

## Description

The Bachelor of Fine Arts degree in Fashion Design integrates conceptual, technical and production design knowledge and skills, leading to a synthesis of the design process from concept to production. These processes include color, design and trend research; technical sketching and rendered illustration; pattern-making and garment construction; analysis of appropriate fit and fabric selection; and the ability to communicate specifications for production using industry standards appropriate to specific markets.

The degree program prepares students for professional careers by developing technical competency, creative/independent problem solving and conceptual understanding necessary for the challenges of a career in the creative industries. Students develop portfolios for presentation at industry interviews and are prepared to be strongly competitive for any entry-level design position in the industry. In addition, students participate in a study abroad/away experience, which includes opportunities to study for a semester in New York City and Florence, Italy, as well as through collaborative partnership programs with the Paris American Academy, Hong Kong Polytechnic University and Regent's University in London.

The B.F.A. degree in Fashion Design engages students in a focused-study thesis project (collection development) as a capstone experience that results in submitting their collection for formal review by faculty and industry designer-critics, followed by public presentation in a fashion venue and completion of a thesis 'magazine' (print collateral).

### Fully Offered At:

- Kent Campus

## Accreditation

National Association of Schools of Art and Design (NASAD)

## Admission Requirements

The university affirmatively strives to provide educational opportunities and access to students with varied backgrounds, those with special talents and adult students who graduated from high school three or more years ago.

**Freshman Students:** Admission to this degree is selective. The B.F.A. degree requires applicants to have a minimum 2.750 overall Kent State GPA and the support of the Fashion Design faculty. To be considered for the Bachelor of Fine Arts degree, students must be enrolled in junior-level fashion design studio courses and need to submit a 'Letter of Intent' and a 'B.F.A. Proposal' by the established deadlines.

**Transfer Students:** Admission to the Fashion Design major requires a minimum 2.750 overall GPA based on minimum 24 credit hours of college-level coursework at an accredited institution. Those students meeting this GPA requirement but with fewer than 24 credit hours will be evaluated as new freshmen.

Students who do not meet the criteria for admission to the Fashion Design major may be eligible for admission to the Pre-Fashion Design and Merchandising non-degree major. In addition, students who do not meet the admission criteria may initiate the process for declaring the B.A. degree in Fashion Design after completing minimum 12 credit hours of non-developmental coursework at Kent State University and earning a minimum 2.750 overall GPA.

**English Language Proficiency Requirements for International Students:** All international students must provide proof of English language proficiency (unless they meet specific exceptions) by earning a minimum 525 TOEFL score (71 on the Internet-based version), minimum 75 MELAB score, minimum 6.0 IELTS score or minimum 48 PTE Academic score, or by completing the ELS level 112 Intensive Program. For more information on international admission, visit the Office of Global Education's admission website.

## Program Learning Outcomes

Graduates of this program will be able to:

1. Understand the fashion industry, fashion markets, fashion products, and services
2. Demonstrate understanding of integrating conceptual, technical and production design knowledge and skills, leading to a synthesis of the design process from concept to production.
3. Apply knowledge and skills in the use of basic tools, techniques, and processes sufficient to produce work from draft or specifications to finished product, including skills in portfolio preparation.
4. Articulate conceptual and critical thinking applicable to the fashion industry.
5. Employ research processes and practices employed in the fashion industry.
6. Articulate professionalism and communication skills in the appropriate creative industry.

## University Requirements

All students in a bachelor's degree program at Kent State University must complete the following university requirements for graduation.

**NOTE:** University requirements may be fulfilled in this program by specific course requirements. Please see Program Requirements for details.

Destination Kent State: First Year Experience	1
Course is not required for students with 25 transfer credits, excluding College Credit Plus, or age 21+ at time of admission.	
Diversity Domestic/Global (DIVD/DIVG)	2 courses
Students must successfully complete one domestic and one global course, of which one must be from the Kent Core.	
Experiential Learning Requirement (ELR)	varies
Students must successfully complete one course or approved experience.	
Kent Core (see table below)	36-37
Writing-Intensive Course (WIC)	1 course
Students must earn a minimum C grade in the course.	
Upper-Division Requirement	39 (or 42)
Students must successfully complete 39 upper-division (numbered 30000 to 49999) credit hours to graduate. Students in a B.A. and/or B.S. degree in the College of Arts and Sciences must complete 42 upper-division credit hours.	
Total Credit Hour Requirement	120
Some bachelor's degrees require students to complete more than 120 credit hours.	

## Kent Core Requirements

Kent Core Composition (KCMP)	6
Kent Core Mathematics and Critical Reasoning (KMCR)	3
Kent Core Humanities and Fine Arts (KHUM/KFA) (min one course each)	9
Kent Core Social Sciences (KSS) (must be from two disciplines)	6
Kent Core Basic Sciences (KBS/KLAB) (must include one laboratory)	6-7
Kent Core Additional (KADL)	6
<b>Total Credit Hours:</b>	<b>36-37</b>

## Program Requirements

### Major Requirements

Code	Title	Credit Hours
<b>Major Requirements (courses count in major GPA)</b>		
FDM 10010	FASHION FUNDAMENTALS	3
FDM 10023	FASHION VISUALS	1
FDM 10024	FASHION VISUALS LABORATORY	2
FDM 10033	FASHION FABRICS	1
FDM 10034	FASHION FABRICS LABORATORY	2
FDM 10053	INTRODUCTION TO FASHION TECHNOLOGY	1
FDM 10054	INTRODUCTION TO FASHION TECHNOLOGY LABORATORY	2
FDM 10140	FOUNDATIONS OF FASHION DRAWING	3
FDM 15055	BASICS OF APPAREL CONSTRUCTION	3
FDM 20013	HISTORY OF COSTUME	3
FDM 20050	FASHION TECHNOLOGY APPLICATIONS	3
FDM 20121	FASHION DRAWING I	3
FDM 20122	FASHION DRAWING II	3
FDM 20153	FLAT PATTERN	3
FDM 20154	DRAPING	3
FDM 35010	CONTEMPORARY FASHION DESIGNERS (WIC) <sup>1</sup>	3



FDM 40121	FASHION PORTFOLIO I	3
FDM 40122	FASHION PORTFOLIO II	3
FDM 40099	SENIOR FASHION DESIGN THESIS I (ELR)	6
FDM 40199	SENIOR FASHION DESIGN THESIS II (ELR)	3
FDM 45292	INTERNSHIP IN FASHION DESIGN (ELR)	3
Additional Major Electives, choose from the following: <sup>2</sup>		11
Fashion Study Away Requirement <sup>3</sup>		
Fashion Design and Merchandising (FDM) Electives		
Accounting (ACCT) Upper-Division Electives (30000 or 40000 level)		
Architectural Studies (ARCS) Upper-Division Electives (30000 or 40000 level)		
Art History (ARTH) Upper-Division Electives (30000 or 40000 level)		
Art Studio (ARTS) Upper-Division Electives (30000 or 40000 level)		
Business Administration Interdisciplinary (BUS) Upper-Division Electives (30000 or 40000 level)		
Design Innovation (DI) Upper-Division Electives (30000 or 40000 level)		
Entrepreneurship (ENTR) Upper-Division Electives (30000 or 40000 level)		
Finance (FIN) Upper-Division Electives (30000 or 40000 level)		
Journalism and Mass Communication (JMC) Upper-Division Electives (30000 or 40000 level)		
Management (MGMT) Upper-Division Electives (30000 or 40000 level)		
Marketing (MKTG) Upper-Division Electives (30000 or 40000 level)		
Theatre (THEA) Upper-Division Electives (30000 or 40000 level)		
Fashion Design Studio I Electives, choose from the following:		6
FDM 30161	FASHION DESIGN STUDIO I	
FDM 30171	FLORENCE FASHION DESIGN STUDIO I	
FDM 30181	NEW YORK CITY FASHION DESIGN STUDIO I	
Fashion Design Studio II Electives, choose from the following:		6
FDM 30162	FASHION DESIGN STUDIO II	
FDM 30172	FLORENCE FASHION DESIGN STUDIO II	
FDM 30182	NEW YORK CITY DESIGN STUDIO II	
<b>Additional Requirements (courses do not count in major GPA)</b>		
ARTH 22006	ART HISTORY: ANCIENT AND MEDIEVAL ART (KFA)	3
ARTH 22007	ART HISTORY: RENAISSANCE TO MODERN ART (KFA)	3
ECON 22060	PRINCIPLES OF MICROECONOMICS (KSS)	3
MKTG 25010	PRINCIPLES OF MARKETING	3
Algebra and Calculus Electives, choose from the following:		3-4
MATH 11009	MODELING ALGEBRA (KMCR)	
MATH 11010	ALGEBRA FOR CALCULUS (KMCR)	
MATH 11012	INTUITIVE CALCULUS (KMCR)	
UC 10097	DESTINATION KENT STATE: FIRST YEAR EXPERIENCE	1
Kent Core Basic Sciences (must include one laboratory)		6-7
Kent Core Composition		6
Kent Core Humanities		3
Kent Core Social Sciences (must be from two disciplines)		3
Kent Core Additional		6
Minimum Total Credit Hours:		120

<sup>1</sup> A minimum C grade must be earned in to fulfill the writing-intensive requirement.

<sup>2</sup> Maximum 6 credit hours of FDM 45093 can be used as an Additional Major Elective.

Maximum 6 credit hours from each non-Fashion Design and Merchandising (FDM) subject area can be used as an Additional Major Elective.

<sup>3</sup> Students are required to participate in a study away opportunity. Students must have minimum 2.500 overall GPA to participate in this study away requirement. Choose from the following: FDM 30171; FDM 30172, FDM 30181; FDM 30182; FDM 35070; FDM 35080; FDM 35901; FDM 35902; FDM 35903; FDM 35904; FDM 35905; FDM 45392; FDM 45492; FDM 45592.

## Graduation Requirements

Minimum Major GPA	Minimum Overall GPA
2.500	2.500

- Participation in a study abroad/away experience
- Minimum 2.500 overall GPA required for internship
- Minimum 2.500 overall GPA required for study away

## Roadmap

This roadmap is a recommended semester-by-semester plan of study for this major. However, courses designated as critical (!) must be completed in the semester listed to ensure a timely graduation.

Semester One		Credits
ARTH 22006	ART HISTORY: ANCIENT AND MEDIEVAL ART (KFA)	3
! FDM 10010	FASHION FUNDAMENTALS	3
FDM 10023	FASHION VISUALS	1
FDM 10024	FASHION VISUALS LABORATORY	2
FDM 15055	BASICS OF APPAREL CONSTRUCTION	3
UC 10097	DESTINATION KENT STATE: FIRST YEAR EXPERIENCE	1
Kent Core Requirement		3
Credit Hours		16
Semester Two		Credits
ARTH 22007	ART HISTORY: RENAISSANCE TO MODERN ART (KFA)	3
! FDM 10033	FASHION FABRICS	1
! FDM 10034	FASHION FABRICS LABORATORY	2
FDM 10053	INTRODUCTION TO FASHION TECHNOLOGY	1
FDM 10054	INTRODUCTION TO FASHION TECHNOLOGY LABORATORY	2
FDM 10140	FOUNDATIONS OF FASHION DRAWING	3
Algebra or Calculus Electives		3-4
Credit Hours		15
Semester Three		Credits
ECON 22060	PRINCIPLES OF MICROECONOMICS (KSS)	3
! FDM 20121	FASHION DRAWING I	3
FDM 20050	FASHION TECHNOLOGY APPLICATIONS	3
FDM 20153	FLAT PATTERN	3
Kent Core Requirement		3
Credit Hours		15
Semester Four		Credits
! FDM 20013	HISTORY OF COSTUME	3
! FDM 20122	FASHION DRAWING II	3

FDM 20154	DRAPING	3
Additional Major Elective		3
MKTG 25010	PRINCIPLES OF MARKETING	3
Credit Hours		15
<b>Semester Five</b>		
FDM 35010	CONTEMPORARY FASHION DESIGNERS (WIC)	3
!	Fashion Design Studio I Electives	6
Additional Major Elective		3
Kent Core Requirement		3
Credit Hours		15
<b>Semester Six</b>		
!	Fashion Design Studio II Electives	6
Additional Major Elective		2
Kent Core Requirement		3
Kent Core Requirement		3
Credit Hours		14
<b>Third Summer Term</b>		
FDM 45292	INTERNSHIP IN FASHION DESIGN (ELR)	3
Credit Hours		3
<b>Semester Seven</b>		
!	FDM 40121 FASHION PORTFOLIO I	3
!	FDM 40099 SENIOR FASHION DESIGN THESIS I (ELR)	6
Kent Core Requirement		3
Kent Core Requirement		3
Credit Hours		15
<b>Semester Eight</b>		
!	FDM 40122 FASHION PORTFOLIO II	3
!	FDM 40199 SENIOR FASHION DESIGN THESIS II (ELR)	3
Additional Major Elective		3
Kent Core Requirement		3
Credit Hours		12
Minimum Total Credit Hours:		120

## Fashion Industry Studies - M.F.I.S.

### College of the Arts

School of Fashion Design and Merchandising

226 Rockwell Hall

Kent Campus

330-672-3010

FashionSchool@kent.edu

www.kent.edu/fashion

## Description

The Master of Fashion Industry Studies degree in Fashion Industry Studies robustly addresses the highly interdisciplinary character of practice within fashion as a product-driven industry with a unique set of parameters that transverse many traditional academic boundaries.

Fashion Industry Studies is an initial master's level degree for the academic advancement of students to engage in learning and experiences applicable to the fashion industry. The degree program prepares professionals who intentionally use cross-disciplinary and applied research methods to address complex issues derived from the industry setting and provide impactful research-based solutions for the fashion industry.

## Fully Offered At:

- Kent Campus

## Admission Requirements

- Bachelor's degree from an accredited college or university<sup>1</sup> for unconditional admission
- Minimum 3.000 undergraduate GPA on a 4.000 point scale for unconditional admission (effective fall 2021, students will be required to have a minimum 3.300 undergraduate GPA on a 4.000 point scale)
- Official transcripts(s)
- GRE or GMAT scores if GPA is below 3.000 for conditional admissions (effective fall 2021, GRE or GMAT scores will be required if GPA is below a 3.300)
- Goal statement (maximum 500 words) relating career/academic goals and research interests as they relate to critical issue(s) the applicant has identified in current fashion industry practice (effective fall 2021, the maximum word count will increase, from 500 to 1000)
- Supportive materials that demonstrate research and writing capabilities (e.g., significant term paper, research project report, and/or visual portfolio with minimum 5-10 examples of work in any media documenting design process)
- Three letters of recommendation
- English language proficiency - all international students must provide proof of English language proficiency (unless they meet specific exceptions) by earning one of the following:
  - Minimum 587 TOEFL PBT score (paper-based version)
  - Minimum 94 TOEFL IBT score (Internet-based version)
  - Minimum 82 MELAB score
  - Minimum 7.0 IELTS score
  - Minimum 65 PTE score
  - Minimum 120 Duolingo test score

For more information about graduate admissions, please visit the Graduate Studies admission website. For more information on international admission, visit the Office of Global Education's admission website.

<sup>1</sup> Students who are expecting to pursue coursework or thesis research in a design topic are required to possess a bachelor's degree in fashion design OR a bachelor's degree in a related field and substantial employment experience (minimum two years) in the fashion industry.

## Program Requirements

### Major Requirements

Code	Title	Credit Hours
<b>Major Requirements</b>		
FDM 60011	THE FASHION INDUSTRY: A UNIFYING LENS	3
FDM 60031	RESEARCH METHODS IN THE FASHION INDUSTRY	3
FDM 60092	FASHION INDUSTRY PRACTICUM	3
FDM 60100	ADVANCED FASHION INDUSTRY PRACTICE	3
FDM 60199	THESIS I <sup>1</sup>	6
Fashion Elective from Cognate Area		3
Fashion Electives, choose from the following:		9
FDM 55035	HISTORIC TEXTILES	

FDM 60010	GLOBAL CONSUMERS IN THE FASHION INDUSTRY
FDM 60020	FASHION PRODUCT DEVELOPMENT AND MANAGEMENT
FDM 60050	TECHSTYLELAB: DIGITAL DESIGN AND NEW MEDIA IN THE FASHION INDUSTRY
FDM 60093	WORKSHOPS ON CURRENT TOPICS IN THE FASHION INDUSTRY
FDM 60098	RESEARCH PROJECT IN FASHION INDUSTRY
FDM 60162	ADVANCED FASHION INDUSTRY DESIGN AND PRODUCTION
FDM 63011	FASHION BRAND MANAGEMENT AND MARKETING
FDM 65010	SUSTAINABLE CONCEPTS AND PRACTICES IN THE FASHION INDUSTRY
FDM 65045	FASHION INDUSTRY MERCHANDISE MANAGEMENT
FDM 65055	ENTREPRENEURIAL LEADERSHIP AND SUSTAINABILITY IN THE FASHION INDUSTRY
FDM 65065	SUPPLY CHAIN MANAGEMENT IN THE FASHION INDUSTRY
FDM 65095	FASHION INDUSTRY SPECIAL TOPICS
FDM 65096	INDIVIDUAL INVESTIGATION IN THE FASHION INDUSTRY

Minimum Total Credit Hours: 30

<sup>1</sup> To earn the M.F.I.S. degree, each student must complete a written thesis accompanied by a visual presentation/representation that is successfully defended and approved by a committee of faculty with feedback from an industry partner. The thesis must demonstrate an innovative and pragmatic research-based solution applicable to the fashion industry.

## Graduation Requirements

- Students in the M.F.I.S. degree are required to complete 24 credit hours of graded graduate coursework and a minimum of 6 credit hours of thesis.
- Students without a fashion background may be required to complete foundational coursework, FDM 10033 and FDM 10034 concurrently during the first semester, and either FDM 30260 or FDM 30262. Students must complete these courses within the first 18 credit hours of graduate study. These undergraduate credit hours are in addition to the 30 graduate credit hours required for the M.F.I.S. degree.

## Fashion Media - Minor

### College of the Arts

School of Fashion Design and Merchandising  
226 Rockwell Hall  
Kent Campus  
330-672-3010  
FashionSchool@kent.edu  
www.kent.edu/fashion

### College of Communication and Information

School of Journalism and Mass Communication  
201 Franklin Hall  
330-672-8293  
jmc@kent.edu

www.kent.edu/jmc

## Description

The Fashion Media minor is for students studying either fashion merchandising or journalism and mass communication.

Fashion merchandising students take the Media Track to learn about the fashion media and better prepare them to understand this industry. The track includes a trip to New York City as a requirement.

Journalism and mass communication students take the Fashion Track to learn about the fashion publishing industry to better prepare them for work in this business. The track includes a trip to New York City to study fashion media.

### Fully Offered At:

- Kent Campus

## Admission Requirements

Admission to the minor is selective, open only to students declared in the Fashion Merchandising major or in a major in the School of Journalism and Mass Communication.

To declare the Fashion Media minor, students must have a minimum 2.000 overall Kent State University GPA. No Kent State University GPA is required if the student is a first-semester freshman or transfer student admitted in good standing.

## Minor Requirements

Code	Title	Credit Hours
<b>Minor Requirements</b>		
ENTR 27056 or FDM 35280	INTRODUCTION TO ENTREPRENEURSHIP FASHION ENTREPRENEURSHIP	3
FDM 10010	FASHION FUNDAMENTALS	3
JMC 41111	FASHION PUBLISHING	3
Media Track or Fashion Track, choose from the following:		15
<i>Media Track for Students Declared in Fashion Merchandising Major</i>		
EMAT 10310	MY STORY ON THE WEB	
FDM 35080 or JMC 46020	FASHION IN THE MEDIA <sup>1</sup> MAGAZINE DESIGN	
JMC 20005	FUNDAMENTALS OF MEDIA MESSAGES	
JMC 21008	SOCIAL MEDIA STRATEGIES	
VCD 37000	VISUAL DESIGN FOR MEDIA: ADVANCED	
<i>Fashion Track for Students Declared in Major in School of Journalism and Mass Communication</i>		
FDM 25011	FASHION BRANDING	
FDM 35010	CONTEMPORARY FASHION DESIGNERS (WIC)	
FDM 35011	FASHION FORECASTING	
FDM 35080	FASHION IN THE MEDIA <sup>1</sup>	
FDM 45492 or JMC 46091	FIELD EXPERIENCE STUDY TOUR FOR NYC STUDIO STUDENTS (ELR) NEW YORK MEDIA SEMINAR	

Minimum Total Credit Hours: 24

<sup>1</sup> FDM 35080 must be taken in New York City only.

## Graduation Requirements

Minimum Minor GPA	Minimum Overall GPA
2.700	2.000

- Minimum 6 credit hours in the minor must be upper-division coursework (30000 and 40000 level).
- Minimum 6 credit hours in the minor must be outside of the course requirements for any major or other minor the student is pursuing.
- Minimum 50 percent of the total credit hours for the minor must be taken at Kent State (in residence).

## Fashion Merchandising - B.S.

### College of the Arts

School of Fashion Design and Merchandising

226 Rockwell Hall

Kent Campus

330-672-3010

FashionSchool@kent.edu

www.kent.edu/fashion

## Description

The Bachelor of Science degree in Fashion Merchandising allows for students to acquire a thorough background in the business aspects of the fashion industry, whereby they develop competencies in fashion theory, retail operations, management and buying, fashion forecasting and promotion, the merchandising for apparel manufacturing and the development and marketing of fashion goods.

Students participate in a study abroad/away experience, which includes opportunities to study for a semester in New York City and Florence, Italy, as well as through collaborative partnership programs with the Paris American Academy, Hong Kong Polytechnic University and Regent's University in London.

In addition, students in the Fashion Merchandising major have the opportunity to enroll in the combined degree program with the Master of Business Administration degree. The combined B.S./M.B.A. degree program allows high-achieving undergraduate students early admission into graduate school. Students enrolled in the combined degree program will complete a maximum of 12 credit hours of graduate-level coursework for the M.B.A. degree during their senior year. This allows student to accelerate their completion of the M.B.A degree after being awarded their undergraduate degree. Students complete a minimum of 150 credit hours (120 representing the B.S. degree in Fashion Merchandising and at least an additional 30 representing the M.B.A. degree). To be eligible for the combined program, students must first complete a minimum of 90 credit hours in the fashion merchandising degree with at least a 3.300 overall grade point average. Upon achieving these requirements, students submit an admissions application to the M.B.A. program by the set application deadline. Students need to satisfy all requirements for the admissions application, including the GMAT exam.

### Fully Offered At:

- Kent Campus

## Admission Requirements

The university affirmatively strives to provide educational opportunities and access to students with varied backgrounds, those with special

talents and adult students who graduated from high school three or more years ago.

**Freshman Students:** Admission to the Fashion Merchandising major is selective. Prospective applicants must have a minimum 3.0 overall grade point average (on a 4.0 scale); and a minimum 21 ACT composite score or a minimum 1060 SAT score.

**Transfer Students:** Admission to the Fashion Merchandising major requires a minimum 2.750 overall GPA based on minimum 24 credit hours of college-level coursework at an accredited institution. Those students meeting this GPA requirement but with fewer than 24 credit hours will be evaluated as new freshmen.

Students who do not meet the criteria for admission to the Fashion Merchandising major may be eligible for admission to the Pre-Fashion Design and Merchandising non-degree major. In addition, students who do not meet the admission criteria may initiate the process for declaring the B.S. degree in Fashion Merchandising after completing minimum 12 credit hours of non-developmental coursework at Kent State University and earning a minimum 2.750 overall GPA.

### English Language Proficiency Requirements for International Students:

All international students must provide proof of English language proficiency (unless they meet specific exceptions) by earning a minimum 525 TOEFL score (71 on the Internet-based version), minimum 75 MELAB score, minimum 6.0 IELTS score or minimum 48 PTE Academic score, or by completing the ELS level 112 Intensive Program. For more information on international admission, visit the Office of Global Education's admission website.

## Program Learning Outcomes

Graduates of this program will be able to:

1. Understand the fashion industry, fashion markets, fashion products, and services
2. Demonstrate knowledge and skills of the fashion industry through reflective experiential learning.
3. Apply integration of the key knowledge of various segments of industry from fiber to finished product, products/services, consumer markets, and technology in relation to the fashion industry.
4. Articulate conceptual and critical thinking applicable to the fashion industry.
5. Employ research processes and practices employed in the fashion industry.
6. Demonstrate their professionalism and communication skills required in the fashion industry through visual, oral, and written forms.

## University Requirements

All students in a bachelor's degree program at Kent State University must complete the following university requirements for graduation.

**NOTE:** University requirements may be fulfilled in this program by specific course requirements. Please see Program Requirements for details.

Destination Kent State: First Year Experience	1
Course is not required for students with 25 transfer credits, excluding College Credit Plus, or age 21+ at time of admission.	
Diversity Domestic/Global (DIVD/DIVG)	2 courses

Students must successfully complete one domestic and one global course, of which one must be from the Kent Core.	
Experiential Learning Requirement (ELR)	varies
Students must successfully complete one course or approved experience.	
Kent Core (see table below)	36-37
Writing-Intensive Course (WIC)	1 course
Students must earn a minimum C grade in the course.	
Upper-Division Requirement	39 (or 42)
Students must successfully complete 39 upper-division (numbered 30000 to 49999) credit hours to graduate. Students in a B.A. and/or B.S. degree in the College of Arts and Sciences must complete 42 upper-division credit hours.	
Total Credit Hour Requirement	120
Some bachelor's degrees require students to complete more than 120 credit hours.	

## Kent Core Requirements

Kent Core Composition (KCOMP)	6
Kent Core Mathematics and Critical Reasoning (KMCR)	3
Kent Core Humanities and Fine Arts (KHUM/KFA) (min one course each)	9
Kent Core Social Sciences (KSS) (must be from two disciplines)	6
Kent Core Basic Sciences (KBS/KLAB) (must include one laboratory)	6-7
Kent Core Additional (KADL)	6
<b>Total Credit Hours:</b>	<b>36-37</b>

## Program Requirements

### Major Requirements

Code	Title	Credit Hours
<b>Major Requirements (courses count in major GPA)</b>		
FDM 10010	FASHION FUNDAMENTALS	3
FDM 10023	FASHION VISUALS	1
FDM 10024	FASHION VISUALS LABORATORY	2
FDM 10033	FASHION FABRICS	1
FDM 10034	FASHION FABRICS LABORATORY	2
FDM 10053	INTRODUCTION TO FASHION TECHNOLOGY	1
FDM 10054	INTRODUCTION TO FASHION TECHNOLOGY LABORATORY	2
FDM 20030	FASHION APPAREL ANALYSIS	3
FDM 20263	FASHION RETAIL INDUSTRY	3
FDM 25011	FASHION BRANDING	3
FDM 30083	PROFESSIONAL SEMINAR	3
FDM 30260	PRODUCT DEVELOPMENT IN THE FASHION INDUSTRY	3
FDM 30262	FASHION MERCHANDISE PLANNING AND BUYING	3
FDM 35011	FASHION FORECASTING	3
FDM 35270	COMPUTER APPLICATIONS IN RETAILING	3
FDM 40270	FASHION MARKETING RESEARCH	3
FDM 40291	APPLIED PRINCIPLES IN FASHION MERCHANDISING (WIC) <sup>1</sup>	3
FDM 45012	TEXTILES AND APPAREL IN THE GLOBAL ECONOMY	3
FDM 45192	INTERNSHIP IN FASHION MERCHANDISING (ELR)	3

Additional Major Electives, choose from the following subject areas: <sup>2</sup>	9
Fashion Study Away Requirement <sup>3</sup>	
Fashion Design and Merchandising (FDM) Elective	
Accounting (ACCT) Upper-Division Electives (30000 or 40000 level)	
Architectural Studies (ARCS) Upper-Division Electives (30000 or 40000 level)	
Art History (ARTH) Upper-Division Electives (30000 or 40000 level)	
Art Studio (ARTS) Upper-Division Electives (30000 or 40000 level)	
Business Administration Interdisciplinary (BUS) Upper-Division Electives (30000 or 40000 level)	
Design Innovation (DI) Upper-Division Electives (30000 or 40000 level)	
Entrepreneurship (ENTR) Upper-Division Electives (30000 or 40000 level)	
Finance (FIN) Upper-Division Electives (30000 or 40000 level)	
Journalism and Mass Communication (JMC) Upper-Division Electives (30000 or 40000 level)	
Management (MGMT) Upper-Division Electives (30000 or 40000 level)	
Marketing (MKTG) Upper-Division Electives (30000 or 40000 level)	
Theatre (THEA) Upper-Division Electives (30000 or 40000 level)	

<b>Additional Requirements (courses do not count in major GPA)</b>		
ECON 22060	PRINCIPLES OF MICROECONOMICS (KSS)	3
MATH 10041	INTRODUCTORY STATISTICS (KMCR)	4
MKTG 25010	PRINCIPLES OF MARKETING	3
UC 10097	DESTINATION KENT STATE: FIRST YEAR EXPERIENCE	1

Kent Core Basic Sciences (must include one laboratory)	6-7
Kent Core Composition	6
Kent Core Humanities and Fine Arts (minimum one course from each)	9
Kent Core Social Sciences	3
Kent Core Additional	6
Minor Coursework and General Electives (total credit hours depends on earning 120 credit hours, including 39 upper-division credit hours) <sup>4</sup>	22

Minimum Total Credit Hours: 120

- <sup>1</sup> Minimum C grade must be earned to fulfill the writing-intensive requirement
- <sup>2</sup> Maximum 6 credit hours of FDM 45093 can be used as an Additional Major Elective.  
Maximum 6 credit hours from each non-Fashion Design and Merchandising (FDM) subject area can be used as an Additional Major Elective.
- <sup>3</sup> Students are required to participate in a study away opportunity. Students must have minimum 2.500 overall GPA to participate in this study away requirement. Choose from the following: FDM 35070; FDM 35080; FDM 35901; FDM 35902; FDM 35903; FDM 35904; FDM 35905; FDM 45392; FDM 45492; FDM 45592.
- <sup>4</sup> Students are required to declare and complete a minor as part of the fashion merchandising program. Students may select any minor available at Kent State, but it should be aligned with the student's overall educational and career goals. Number of credit hours depends on the minor selected.

## Graduation Requirements

Minimum Major GPA	Minimum Overall GPA
2.500	2.500



- Participation in a study abroad/away experience
- Minimum 2.500 overall GPA required for study away
- Minimum 2.500 overall GPA required for internship

## Roadmap

This roadmap is a recommended semester-by-semester plan of study for this major. However, courses designated as critical (!) must be completed in the semester listed to ensure a timely graduation.

Semester One		Credits
FDM 10010	FASHION FUNDAMENTALS	3
FDM 10023	FASHION VISUALS	1
FDM 10024	FASHION VISUALS LABORATORY	2
UC 10097	DESTINATION KENT STATE: FIRST YEAR EXPERIENCE	1
Kent Core Requirement		3
Kent Core Requirement		3
Kent Core Requirement		3
Credit Hours		16
Semester Two		
FDM 10053	INTRODUCTION TO FASHION TECHNOLOGY	1
FDM 10054	INTRODUCTION TO FASHION TECHNOLOGY LABORATORY	2
MATH 10041	INTRODUCTORY STATISTICS (KMCR)	4
Kent Core Requirement		3
Kent Core Requirement		3
Kent Core Requirement		3
Credit Hours		16
Semester Three		
ECON 22060	PRINCIPLES OF MICROECONOMICS (KSS)	3
! FDM 10033	FASHION FABRICS	1
! FDM 10034	FASHION FABRICS LABORATORY	2
FDM 20263	FASHION RETAIL INDUSTRY	3
Kent Core Requirement		3
Kent Core Requirement		3
Credit Hours		15
Semester Four		
! FDM 20030	FASHION APPAREL ANALYSIS	3
FDM 25011	FASHION BRANDING	3
MKTG 25010	PRINCIPLES OF MARKETING	3
Kent Core Requirement		3
Kent Core Requirement		3
Credit Hours		15
Semester Five		
FDM 30083	PROFESSIONAL SEMINAR	3
FDM 30262	FASHION MERCHANDISE PLANNING AND BUYING	3
FDM 35011	FASHION FORECASTING	3
Minor Coursework and General Electives		3
Credit Hours		12
Semester Six		
FDM 30260	PRODUCT DEVELOPMENT IN THE FASHION INDUSTRY	3
FDM 35270	COMPUTER APPLICATIONS IN RETAILING	3
Additional Major Elective		3
Minor Coursework and General Electives		6
Credit Hours		15

### Third Summer Term

FDM 45192	INTERNSHIP IN FASHION MERCHANDISING (ELR)	3
Credit Hours		3

### Semester Seven

FDM 40270	FASHION MARKETING RESEARCH	3
FDM 45012	TEXTILES AND APPAREL IN THE GLOBAL ECONOMY	3
Additional Major Elective		3
Minor Coursework and General Electives		6
Credit Hours		15

### Semester Eight

! FDM 40291	APPLIED PRINCIPLES IN FASHION MERCHANDISING (WIC)	3
Additional Major Elective		3
Minor Coursework and General Electives		7
Credit Hours		13
Minimum Total Credit Hours:		120

## School of Music

### College of the Arts

School of Music

E101 Center for the Performing Arts

Kent Campus

330-672-2172

schoolofmusic@kent.edu

www.kent.edu/music

## Undergraduate Programs

- Music - B.A.
- Music - B.M.
- Music Education - B.M.
- Music Technology - B.S.

## Minors

- Audio Recording
- Jazz Studies
- Music
- Music Technology
- World Music

## Graduate Programs

- Conducting - M.M.
- Ethnomusicology - M.A.
- Music Composition - M.A.
- Music Education - M.M.
- Music Education - Ph.D.
- Music Theory - M.A.
- Music Theory - Composition - Ph.D.
- Performance - M.M.

## School of Music Faculty

- Albrecht, Theodore J. (1992), Professor, Ph.D., University of North Texas, 1975
- Albrecht, Joshua D. (2019), Assistant Professor
- Anderson, Ian (2015), Assistant Professor, M.F.A., Middle Tennessee State University, 2009
- Bagwell, Dawn M. (2011), Lecturer, M.M., Kent State University, 2012
- Berg, Marla (2009), Assistant Professor, M.M., Cleveland Institute of Music, 1983
- Birch, Sebastian A. (2002), Associate Professor, Ph.D., Cleveland Institute of Music, 1997
- Brown, Dana A. (1984), Associate Professor, M.M., Kent State University, 1986
- Chunn, Michael W. (1983), Professor, M.M., University of Illinois at Chicago, 1980
- Culver, Timothy M. (1999), Associate Professor, M.M., Kent State University, 2002
- Devore, Richard O. (1983), Associate Professor, Ph.D., University of Iowa, 1985
- Dorfman, Jay (2006), Associate Professor
- Dressler, Jane K. (1987), Professor, Ph.D., University of North Carolina, Greensboro, 1989
- Ferguson, Katherine E. (2019), Assistant Professor, Ph.D., Kent State University, 2017
- Fowler, Kishna (2015), Assistant Professor, M.M., Juilliard School of Music, 1995
- Fucci, Melissa D. (2002), Associate Professor, M.M., Kent State University, 2009
- Holm, Matthew D. (2017), Assistant Professor, Ph.D., Arizona State University, 2006
- Johnstone, Jennifer L. (2002), Assistant Professor, Ph.D., Kent State University, 2012
- Kim, Jungho (2017), Assistant Professor, Ph.D., Eastman School of Music, 2015
- Larmee, Kent D. (1989), Associate Professor, M.M., The Ohio State University, 1981
- Le, Andrew (2019), Associate Professor
- Lee, Donna (1999), Professor, Ph.D., The Johns Hopkins University, 1999
- Leyva, Jesse (2013), Associate Professor, Arizona State University, 2010
- MacPherson, Scott A. (2008), Professor, D.M.A., University of Southern California, 1992
- Marshall, Herbert D. (2019), Assistant Professor
- Matthews, Wendy K. (2018), Associate Professor, Ph.D., George Mason University, 2007
- McCloskey-Rechner, Diane L. (1991), Associate Professor
- McPherson, Eve (2011), Associate Professor, Ph.D., University of California, Santa Barbara, 2009
- Mitchell, David E. (2001), Associate Professor, M.M., University of Akron, 1989
- Mukuna, Kazadi W. (1989), Professor, Ph.D., University of California, Los Angeles, 1978
- Nanongkham, Priwan (1998), Assistant Professor, Ph.D., Kent State University, 2011
- Naxer, Meghan (2008), Assistant Professor, Ph.D., University of Oregon, 2016
- Noh, Hyunjoo G. (1998), Assistant Professor, Ph.D., Kent State University, 2013
- Nowakowski, Mark (2016), Assistant Professor, M.M., University of Colorado, Boulder, 2006
- Resta, Craig M. (2008), Associate Professor, Ph.D., University of Maryland, University College, 2008
- Roberts, Adam (2018), Assistant Professor, Ph.D., Harvard University, 2010
- Robinson, Cathy M. (2003), Assistant Professor
- Robinson, Keith H. (2003), Assistant Professor
- Seachrist, Denise A. (1988), Professor, Ph.D., Kent State University, 1993
- Selvaggio, Robert (2010), Associate Professor, M.M., Manhattan School of Music, 1995
- Shahriari, Andrew C. (1993), Associate Professor, M.M., Kent State University, 2001
- Sundet, Danna S. (2002), Professor, M.M., Kent State University, 2002
- Tiffe, Janine L. (2011), Assistant Professor, Ph.D., Florida State University, 2015
- Vardi, Amitai (2012), Assistant Professor, M.M., Cleveland Institute of Music, 2002
- Vaughn, Erin M. (2006), Lecturer, M.M., Kent State University, 2015
- Venesile, Christopher J. (2010), Associate Professor
- White, Jay G. (2011), Professor, University of Maryland, College Park, 2005
- Zakany, Joanna P. (2017), Assistant Professor, B.M., Cleveland Institute of Music, 2006

## Kent Blossom Music (KBM)

**KBM 40026 ACCOMPANYING PROJECTS 2-4 Credit Hours**  
(Repeatable for a maximum of 8 credit hours) rotating piano assignment among responsibilities in chamber music rehearsals, chamber music preparation master classes and instrumental private lessons. Individual responsibilities change weekly.

**Prerequisite:** Audition.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 2-4 other

**Grade Mode:** Satisfactory/Unsatisfactory

**KBM 40031 CHAMBER MUSIC 1-4 Credit Hours**  
(Repeatable for a maximum of 8 credit hours) rehearsal, coaching and performance of representative chamber repertoire from the baroque era through the twentieth century. Woodwinds horn strings and piano. Intensive daily rehearsal and coaching.

**Prerequisite:** Audition.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 1-4 other

**Grade Mode:** Satisfactory/Unsatisfactory

**KBM 40032 ORCHESTRAL REPERTOIRE AND TECHNIQUE 1 Credit Hour**

(Repeatable for a maximum of 2 credit hours) study and performance of standard orchestral repertoire and common audition requirements. Technical and interpretive approaches relating specifically to orchestral performance. Woodwinds horn and strings.

**Prerequisite:** Audition.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 1 other

**Grade Mode:** Satisfactory/Unsatisfactory

**KBM 40093 VARIABLE TITLE WORKSHOP IN MUSIC 1-4 Credit Hours**

(Repeatable for credit) Offered for specific professional needs. Emphasis on performance and pedagogical skills.

**Prerequisite:** Permission.

**Schedule Type:** Workshop

**Contact Hours:** 4 other

**Grade Mode:** Satisfactory/Unsatisfactory

**KBM 50026 ACCOMPANYING PROJECTS 2-4 Credit Hours**

(Repeatable for a maximum of 8 credit hours) Rotating piano assignment among responsibilities in chamber music rehearsals, chamber music preparation, master classes and instrumental private lessons. Individual responsibilities change weekly.

**Prerequisite:** Graduate standing; and audition.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 2-4 other

**Grade Mode:** Satisfactory/Unsatisfactory

**KBM 50031 CHAMBER MUSIC 1-4 Credit Hours**

(Repeatable for credit) Rehearsal, coaching and performance of representative chamber repertoire from the Baroque Era through the twentieth century. Woodwinds, horn, strings and piano. Intensive daily rehearsal and coaching.

**Prerequisite:** Graduate standing; and audition.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 1-4 other

**Grade Mode:** Satisfactory/Unsatisfactory

**KBM 50032 ORCHESTRAL REPERTOIRE AND TECHNIQUE 1 Credit Hour**

(Repeatable for a maximum of 2 credit hours) Study and performance of standard orchestral repertoire and common audition requirements. Technical and interpretive approaches relating specifically to orchestral performance. Woodwinds, horn and strings.

**Prerequisite:** Graduate standing; and audition.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 1 other

**Grade Mode:** Satisfactory/Unsatisfactory

**KBM 50093 VARIABLE TITLE WORKSHOP IN MUSIC 1-4 Credit Hours**

(Repeatable for credit) Offered for specific professional needs. Emphasis on performance and pedagogical skills.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Workshop

**Contact Hours:** 4 other

**Grade Mode:** Satisfactory/Unsatisfactory

**KBM 70026 ACCOMPANYING PROJECTS 2-4 Credit Hours**

(Repeatable for a maximum of 8 credit hours) Rotating piano assignment among responsibilities in chamber music rehearsals, chamber music preparation, master classes and instrumental private lessons. Individual responsibilities change weekly.

**Prerequisite:** Doctoral standing; and special approval.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 2-4 other

**Grade Mode:** Satisfactory/Unsatisfactory

**KBM 70031 CHAMBER MUSIC 1-4 Credit Hours**

(Repeatable for credit) Rehearsal, coaching and performance of representative chamber repertoire from the Baroque era through the twentieth century. Woodwinds, brass, strings and piano. Intensive daily rehearsal and coaching.

**Prerequisite:** Doctoral standing; and special approval.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 1-4 other

**Grade Mode:** Satisfactory/Unsatisfactory

**KBM 70032 ORCHESTRAL REPERTOIRE AND TECHNIQUE 1 Credit Hour**

(Repeatable for a maximum of 2 credit hours) Study and performance of standard orchestral repertoire and common audition requirements. Technical and interpretive approaches relating specifically to orchestral performance. Woodwinds, horn and strings.

**Prerequisite:** Doctoral standing; and special approval.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 1 other

**Grade Mode:** Satisfactory/Unsatisfactory

**KBM 70093 VARIABLE TITLE WORKSHOP IN MUSIC 1-4 Credit Hours**

(Repeatable for credit) Offered for specific professional needs. Emphasis on performance and pedagogical skills.

**Prerequisite:** Doctoral standing; and special approval.

**Schedule Type:** Workshop

**Contact Hours:** 4 other

**Grade Mode:** Satisfactory/Unsatisfactory

## Music (MUS)

**MUS 11110 MUSIC FUNDAMENTALS 3 Credit Hours**

Introduction to the pitch and rhythmic aspects of music. Emphasis on aural skills and music notation. Prepares students for MUS 11111. No credit toward graduation for music majors or minors.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MUS 11111 MUSIC RUDIMENTS 3 Credit Hours**

Introduction to the pitch and rhythmic aspects of music. Emphasis on aural/oral skills and music notation. No credit toward graduation for music majors or minors.

**Prerequisite:** Music Theory Placement Test, score of 01.

**Schedule Type:** Laboratory, Lecture, Combined Lecture and Lab

**Contact Hours:** 2 lecture, 2 lab

**Grade Mode:** Standard Letter

**MUS 11121 THEORY I 4 Credit Hours**

Basic elements of music—harmonic, melodic, rhythmic—studied through analysis, composition, keyboard and ear training. Diatonic materials emphasized.

**Prerequisite:** Music Theory Placement Test, score of 02.

**Schedule Type:** Laboratory, Lecture

**Contact Hours:** 3 lecture, 2 lab

**Grade Mode:** Standard Letter

**Attributes:** TAG Arts and Humanities

**MUS 11122 THEORY II 4 Credit Hours**

Continuation of basic elements of music—harmonic, melodic, rhythmic—studied through analysis, composition, keyboard, singing and ear training. Chromatic materials emphasized.

**Prerequisite:** MUS 11121 with a C grade.

**Schedule Type:** Laboratory, Lecture

**Contact Hours:** 3 lecture, 2 lab

**Grade Mode:** Standard Letter

**Attributes:** TAG Arts and Humanities

**MUS 16914 ELECTRIC GUITAR APPLIED STUDIO MUSICIANSHIP 2,4 Credit Hours**

(Repeatable for credit) Development of performance proficiency in popular music styles.

**Prerequisite:** None.

**Schedule Type:** Private Lesson, Studio

**Contact Hours:** 1.5-2 other

**Grade Mode:** Standard Letter

**MUS 16915 ELECTRIC BASS APPLIED STUDIO MUSICIANSHIP 2,4 Credit Hours**

(Repeatable for credit) Development of performance proficiency in popular music styles.

**Prerequisite:** None.

**Schedule Type:** Private Lesson, Studio

**Contact Hours:** 1.5-2 other

**Grade Mode:** Standard Letter

**MUS 17011 PIANO CLASS FOR NONMUSIC STUDENTS 2 Credit Hours**

Development of basic skills required in playing piano, including familiarity with the keyboard and music notation.

**Prerequisite:** None.

**Schedule Type:** Laboratory

**Contact Hours:** 3 lab

**Grade Mode:** Standard Letter

**MUS 17012 PIANO CLASS FOR NONMUSIC STUDENTS 2 Credit Hours**

Development of basic skills required in playing piano, including familiarity with the keyboard and music notation.

**Prerequisite:** MUS 17011.

**Schedule Type:** Laboratory

**Contact Hours:** 3 lab

**Grade Mode:** Standard Letter

**MUS 17013 FUNDAMENTALS OF JAZZ PIANO 1 Credit Hour**

Focus on the fundamentals of jazz piano chord voicings and accompanying, playing scales related to jazz theory, and learning jazz repertoire on the piano. Additional skills related to becoming a well-rounded jazz improviser, composer and educator.

**Prerequisite:** MUS 17112 with a minimum C grade; and music major, music education major or music technology major.

**Schedule Type:** Studio

**Contact Hours:** 2 other

**Grade Mode:** Standard Letter

**MUS 17111 PIANO CLASS I 1 Credit Hour**

Preparatory piano. Piano literature and functional elements of sight-reading, transposition, harmonization and improvisation.

**Prerequisite:** Special approval.

**Schedule Type:** Laboratory

**Contact Hours:** 2 lab

**Grade Mode:** Standard Letter

**Attributes:** TAG Arts and Humanities

**MUS 17112 PIANO CLASS II 1 Credit Hour**

Preparatory piano. Piano literature and functional elements of sight-reading, transposition, harmonization and improvisation.

**Prerequisite:** MUS 17111 with a minimum C grade; and special approval.

**Schedule Type:** Laboratory

**Contact Hours:** 2 lab

**Grade Mode:** Standard Letter

**Attributes:** TAG Arts and Humanities

**MUS 18611 SINGER'S DICTION I 1 Credit Hour**

Foundational training and performance practice in phonetics and singing diction for the English, American, Ecclesiastical Latin and Italian vocal repertoire.

**Prerequisite:** Music or music education major.

**Schedule Type:** Lecture

**Contact Hours:** 1 lecture

**Grade Mode:** Standard Letter

**MUS 18612 SINGER'S DICTION II 1 Credit Hour**

Foundational training and performance practice in phonetics and singing diction for the vocal repertoire of French, German and selected other languages.

**Prerequisite:** MUS 18611 with a C grade; and music major.

**Schedule Type:** Lecture

**Contact Hours:** 1 lecture

**Grade Mode:** Standard Letter

**MUS 20295 SPECIAL TOPICS IN MUSIC 1-3 Credit Hours**

(Repeatable for credit) Academic study in areas not offered adequately in the music curriculum. Topic areas are of special interest to the faculty member.

**Prerequisite:** Music major.

**Schedule Type:** Lecture

**Contact Hours:** 1-3 lecture

**Grade Mode:** Standard Letter

**MUS 21111 THEORY III 4 Credit Hours**

Study of Western art music from the sixteenth through eighteenth centuries. Emphasis on analytical, aural, compositional, and keyboard components of music theory.

**Prerequisite:** MUS 11122 with a minimum C grade.

**Schedule Type:** Laboratory, Lecture

**Contact Hours:** 3 lecture, 2 lab

**Grade Mode:** Standard Letter

**Attributes:** TAG Arts and Humanities

**MUS 21112 THEORY IV 4 Credit Hours**

Study of Western art music from the nineteenth and early twentieth centuries. Emphasis on analytical, aural, compositional and keyboard components of music theory.

**Prerequisite:** MUS 21111 with a minimum C grade.

**Schedule Type:** Laboratory, Lecture

**Contact Hours:** 3 lecture, 2 lab

**Grade Mode:** Standard Letter

**Attributes:** TAG Arts and Humanities

**MUS 21113 MUSIC PRODUCTION I 3 Credit Hours**

A practical introduction to digital audio production, study of basic computer assisted recording, editing and music production.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MUS 21114 MUSIC PRODUCTION II 3 Credit Hours**

A practical study of computer assisted composition and arranging covering MIDI, sequencing, synthesis, sampling and video synchronization.

**Prerequisite:** MUS 21113 and 21221 with minimum C grade.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MUS 21211 CLASS COMPOSITION I 2 Credit Hours**

Introduction to beginning concepts involved with composing. Students in non-music majors may register for the course with departmental approval.

**Prerequisite:** Music major Music Education major or Music Technology major.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**MUS 21212 CLASS COMPOSITION II 2 Credit Hours**

Application of beginning concepts involved with composing.

**Prerequisite:** MUS 21211 with a minimum C grade.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**MUS 21221 AUDIO RECORDING I 3 Credit Hours**

A study of fundamental studio recording technology, theory and techniques, including signal flow, microphone theory, the human auditory system, analog audio consoles and standard industry Digital Audio Workstations (DAWs).

**Prerequisite:** MUS 21113 with a minimum C grade.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MUS 21222 AUDIO RECORDING II 3 Credit Hours**

A continuation of audio theory and techniques addressed in Audio Recording I. This includes study of the decibel, digital audio theory, microphone techniques, fundamental multi-track recording techniques as well as DAW session setup, file management and recording session etiquette.

**Prerequisite:** MUS 21221 with a minimum C grade.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MUS 21341 CONTEMPORARY POPULAR MUSIC THEORY 3 Credit Hours**

Application of the knowledge gained from Music Theory (MUS 11121 and 11122) to the study of popular music through practical applications, particularly with regard to composition and improvisation.

**Prerequisite:** MUS 11122 with a minimum C grade.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MUS 22111 THE UNDERSTANDING OF MUSIC (KFA) 3 Credit Hours**

A listening approach for the understanding of Western art music, folk and jazz. Particular attention is paid to musical styles forms and compositional techniques as related to music history.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Kent Core Fine Arts, Transfer Module Fine Arts

**MUS 22121 MUSIC AS A WORLD PHENOMENON (DIVG) (KFA) 3 Credit Hours**

An introduction to music as a world phenomenon. Study of selected art, folk and popular music from world cultures through live performances, tapes, films, video tapes and readings.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Diversity Global, Kent Core Fine Arts, Transfer Module Fine Arts

**MUS 22131 SURVEY OF ROCK MUSIC HISTORY (DIVD) 3 Credit Hours**

A survey of Rock Music History from the 1950s through the twentieth century to today. Emphasis is on recognizing music literature, prominent artists and music styles, as well as related cultural events. Modern media, especially the Internet, is an integral component of the course.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Diversity Domestic

**MUS 23241 MUSIC TEACHING AS A PROFESSION 2 Credit Hours**

Basic teaching strategies and techniques; an overview of music teaching as a career; diversity, integration, curriculum technology, classroom management, legal issues, personal skills and portfolio. Twenty (20) field hours required.

**Prerequisite:** Music or music education major.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**MUS 25011 UNIVERSITY CHORUS 1 Credit Hour**

(Repeatable for credit) Choral ensemble which studies and performs sacred and secular music for mixed voices. Activities include performance on and off campus.

**Prerequisite:** Special approval.

**Schedule Type:** Lecture

**Contact Hours:** 1 lecture

**Grade Mode:** Standard Letter

**Attributes:** TAG Arts and Humanities



**MUS 25225 UNIVERSITY BAND 1 Credit Hour**

(Repeatable for credit) Study and performance of music literature for wind band appropriate for music majors and non-majors.

**Prerequisite:** None.

**Schedule Type:** Laboratory

**Contact Hours:** 1 lab

**Grade Mode:** Standard Letter

**MUS 25311 CHAMBER MUSIC 1 Credit Hour**

(Repeatable for credit) The study and performance of music for small ensembles.

**Prerequisite:** Permission.

**Schedule Type:** Laboratory

**Contact Hours:** 1 lab

**Grade Mode:** Standard Letter

**MUS 25312 WORLD MUSIC ENSEMBLE 1 Credit Hour**

(Repeatable for credit) The World Music Ensemble teaches performance and cultural etiquette associated with traditional and popular world music genres, e.g., African drumming. Specific traditions studied include areas of specialization of instructors and or advanced student participants.

**Prerequisite:** None.

**Schedule Type:** Studio

**Contact Hours:** 2 other

**Grade Mode:** Standard Letter

**MUS 26111 APPLIED MUSIC PIANO 2,4 Credit Hours**

(Repeatable for credit) A comprehensive study of performance, technique and repertoire appropriate to lower division study. Individual instruction.

An audition is required. This course meets program requirements in the Bachelor of Science in Music Technology program only.

**Prerequisite:** 26000 Applied Music Test - audition.

**Schedule Type:** Private Lesson, Studio

**Contact Hours:** 2-4 other

**Grade Mode:** Standard Letter

**MUS 26311 APPLIED MUSIC VOICE 2,4 Credit Hours**

(Repeatable for credit) A comprehensive study of performance, technique and repertoire appropriate to lower division study. Individual instruction.

An audition is required. This course meets program requirements in the Bachelor of Science in Music Technology program only.

**Prerequisite:** 26000 Applied Music Test - audition.

**Schedule Type:** Private Lesson, Studio

**Contact Hours:** 2-4 other

**Grade Mode:** Standard Letter

**MUS 26411 APPLIED MUSIC - VIOLIN 2,4 Credit Hours**

(Repeatable for credit) A comprehensive study of performance, technique and repertoire appropriate to lower division study. Individual instruction.

An audition is required. This course meets program requirements in the Bachelor of Science in Music Technology program only.

**Prerequisite:** 26000 Applied Music Test.

**Schedule Type:** Private Lesson, Studio

**Contact Hours:** 1.5-2 other

**Grade Mode:** Standard Letter

**MUS 26412 APPLIED MUSIC - VIOLA 2,4 Credit Hours**

(Repeatable for credit) A comprehensive study of performance, technique and repertoire appropriate to lower division study. Individual instruction.

An audition is required. This course meets program requirements in the Bachelor of Science in Music Technology program only.

**Prerequisite:** 26000 Applied Music Test.

**Schedule Type:** Private Lesson, Studio

**Contact Hours:** 1.5-2 other

**Grade Mode:** Standard Letter

**MUS 26413 APPLIED MUSIC - CELLO 2,4 Credit Hours**

(Repeatable for credit) A comprehensive study of performance, technique and repertoire appropriate to lower division study. Individual instruction.

An audition is required. This course meets program requirements in the Bachelor of Science in Music Technology program only.

**Prerequisite:** 26000 Applied Music Test.

**Schedule Type:** Private Lesson, Studio

**Contact Hours:** 1.5-2 other

**Grade Mode:** Standard Letter

**MUS 26414 APPLIED MUSIC DOUBLE BASS 2,4 Credit Hours**

(Repeatable for credit) A comprehensive study of performance, technique and repertoire appropriate to lower division study. Individual instruction.

An audition is required. This course meets program requirements in the Bachelor of Science in Music Technology program only.

**Prerequisite:** 26000 Applied Music Test - audition.

**Schedule Type:** Private Lesson, Studio

**Contact Hours:** 2-4 other

**Grade Mode:** Standard Letter

**MUS 26511 APPLIED MUSIC - FLUTE 2,4 Credit Hours**

(Repeatable for credit) A comprehensive study of performance, technique and repertoire appropriate to lower division study. Individual instruction.

An audition is required. This course meets program requirements in the Bachelor of Science in Music Technology program only.

**Prerequisite:** 26000 Applied Music Test.

**Schedule Type:** Private Lesson, Studio

**Contact Hours:** 1.5-2 other

**Grade Mode:** Standard Letter

**MUS 26512 APPLIED MUSIC - OBOE 2,4 Credit Hours**

(Repeatable for credit) A comprehensive study of performance, technique and repertoire appropriate to lower division study. Individual instruction.

An audition is required. This course meets program requirements in the Bachelor of Science in Music Technology program only.

**Prerequisite:** 26000 Applied Music Test.

**Schedule Type:** Private Lesson, Studio

**Contact Hours:** 1.5-2 other

**Grade Mode:** Standard Letter

**MUS 26513 APPLIED MUSIC - CLARINET 2,4 Credit Hours**

(Repeatable for credit) A comprehensive study of performance, technique and repertoire appropriate to lower division study. Individual instruction.

An audition is required. This course meets program requirements in the Bachelor of Science in Music Technology program only.

**Prerequisite:** 26000 Applied Music Test.

**Schedule Type:** Private Lesson, Studio

**Contact Hours:** 1.5-2 other

**Grade Mode:** Standard Letter

**MUS 26514 APPLIED MUSIC - BASSOON 2,4 Credit Hours**

(Repeatable for credit) A comprehensive study of performance, technique and repertoire appropriate to lower division study. Individual instruction. An audition is required. This course meets program requirements in the Bachelor of Science in Music Technology program only.

**Prerequisite:** 26000 Applied Music Test.

**Schedule Type:** Private Lesson, Studio

**Contact Hours:** 1.5-2 other

**Grade Mode:** Standard Letter

**MUS 26515 APPLIED MUSIC - SAXOPHONE 2,4 Credit Hours**

(Repeatable for credit) A comprehensive study of performance, technique and repertoire appropriate to lower division study. Individual instruction. An audition is required. This course meets program requirements in the Bachelor of Science in Music Technology program only.

**Prerequisite:** 26000 Applied Music Test.

**Schedule Type:** Private Lesson, Studio

**Contact Hours:** 1.5-2 other

**Grade Mode:** Standard Letter

**MUS 26611 APPLIED MUSIC - TRUMPET 2,4 Credit Hours**

(Repeatable for credit) A comprehensive study of performance, technique and repertoire appropriate to lower division study. Individual instruction. An audition is required. This course meets program requirements in the Bachelor of Science in Music Technology program only.

**Prerequisite:** 26000 Applied Music Test.

**Schedule Type:** Private Lesson, Studio

**Contact Hours:** 1.5-2 other

**Grade Mode:** Standard Letter

**MUS 26612 APPLIED MUSIC - HORN 2,4 Credit Hours**

(Repeatable for credit) A comprehensive study of performance, technique and repertoire appropriate to lower division study. Individual instruction. An audition is required. This course meets program requirements in the Bachelor of Science in Music Technology program only.

**Prerequisite:** 26000 Applied Music Test.

**Schedule Type:** Private Lesson, Studio

**Contact Hours:** 1.5-2 other

**Grade Mode:** Standard Letter

**MUS 26613 APPLIED MUSIC - TROMBONE 2,4 Credit Hours**

(Repeatable for credit) A comprehensive study of performance, technique and repertoire appropriate to lower division study. Individual instruction. An audition is required. This course meets program requirements in the Bachelor of Science in Music Technology program only.

**Prerequisite:** 26000 Applied Music Test.

**Schedule Type:** Private Lesson, Studio

**Contact Hours:** 1.5-2 other

**Grade Mode:** Standard Letter

**MUS 26614 APPLIED MUSIC - EUPHONIUM 2,4 Credit Hours**

(Repeatable for credit) A comprehensive study of performance, technique and repertoire appropriate to lower division study. Individual instruction. An audition is required. This course meets program requirements in the Bachelor of Science in Music Technology program only.

**Prerequisite:** 26000 Applied Music Test.

**Schedule Type:** Private Lesson, Studio

**Contact Hours:** 1.5-2 other

**Grade Mode:** Standard Letter

**MUS 26615 APPLIED MUSIC - TUBA 2,4 Credit Hours**

(Repeatable for credit) A comprehensive study of performance, technique and repertoire appropriate to lower division study. Individual instruction. An audition is required. This course meets program requirements in the Bachelor of Science in Music Technology program only.

**Prerequisite:** 26000 Applied Music Test.

**Schedule Type:** Private Lesson, Studio

**Contact Hours:** 1.5-2 other

**Grade Mode:** Standard Letter

**MUS 26711 APPLIED MUSIC PERCUSSION 2,4 Credit Hours**

(Repeatable for credit) A comprehensive study of performance, technique and repertoire appropriate to lower division study. Individual instruction. An audition is required. This course meets program requirements in the Bachelor of Science in Music Technology program only.

**Prerequisite:** 26000 Applied Music Test - audition.

**Schedule Type:** Private Lesson, Studio

**Contact Hours:** 2-4 other

**Grade Mode:** Standard Letter

**MUS 26912 APPLIED MUSIC GUITAR 2,4 Credit Hours**

(Repeatable for credit) A comprehensive study of performance, technique and repertoire appropriate to lower division study. Individual instruction. An audition is required. This course meets program requirements in the Bachelor of Science in Music Technology program only.

**Prerequisite:** 26000 Applied Music Test - audition.

**Schedule Type:** Private Lesson, Studio

**Contact Hours:** 2-4 other

**Grade Mode:** Standard Letter

**MUS 27111 PIANO CLASS III 2 Credit Hours**

Continuation of piano classes. Credit acceptable on music major and minor sequences.

**Prerequisite:** MUS 17112 with a minimum C grade.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**MUS 27112 PIANO CLASS IV 2 Credit Hours**

Continuation of piano classes. Credit acceptable on music major and minor sequences.

**Prerequisite:** MUS 27111 with a minimum C grade.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**MUS 31113 MUSIC PRODUCTION III 3 Credit Hours**

Continuation of Music Production II. Advanced sequencing, synthesis and audio editing techniques as applied to music production. Focus is on arranging.

**Prerequisite:** Minimum C grade in MUS 11121, MUS 21114, and MUS 21222; and 36000 applied music threshold.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MUS 31114 MUSIC PRODUCTION IV 3 Credit Hours**

Continuation of Music Production III. Arranging for acoustic and electronic instruments as applied to music production. Development of MIDI programming skills and use of sample sets.

**Prerequisite:** MUS 31113 with a minimum C grade; and music technology major.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MUS 31121 WESTERN MUSIC SINCE 1900 2 Credit Hours**

Class meets three hours per week. The study of western art music since 1900 from historical and theoretical viewpoints. Emphasis on aural listening music composition and written skills as well as intellectual understanding.

**Prerequisite:** MUS 21112 and MUS 32212 with a minimum C grade.

**Schedule Type:** Laboratory, Lecture, Combined Lecture and Lab

**Contact Hours:** 1 lecture, 2 lab

**Grade Mode:** Standard Letter

**MUS 31211 COMPOSITION 2-4 Credit Hours**

(Repeatable for credit) Original composition for instrumental and vocal solos and small ensembles using shorter musical forms.

**Prerequisite:** MUS 21212 with a minimum C grade; and Music major or Music Education major.

**Schedule Type:** Private Lesson, Studio

**Contact Hours:** 7.5-15 other

**Grade Mode:** Standard Letter

**MUS 31221 AUDIO RECORDING III 3 Credit Hours**

A study of advanced recording and record production techniques. Topics include pre-production planning, instrument-specific single and multi-mic techniques, re-amping and other techniques.

**Prerequisite:** Minimum C grade in MUS 11121, MUS 21114 and MUS 21222; and 36000 applied music threshold.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MUS 31222 AUDIO RECORDING IV 3 Credit Hours**

A detailed study of the tools, techniques and critical listening decisions required in creating a professional audio mx.

**Prerequisite:** MUS 31221 with a minimum C grade.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MUS 32211 MUSIC HISTORY I 3 Credit Hours**

A study of Western music history from the early Christian chants through the Early Classical style.

**Prerequisite:** MUS 22111 (music major section) with a minimum C grade; and junior standing.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 2 lecture, 2 lab

**Grade Mode:** Standard Letter

**MUS 32212 MUSIC HISTORY II (WIC) 3 Credit Hours**

A study of Western music history from the Classical style period to the present.

**Prerequisite:** MUS 22111 (music major section) and MUS 32211 with a minimum C grade; and junior standing.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 2 lecture, 2 lab

**Grade Mode:** Standard Letter

**Attributes:** Writing Intensive Course

**MUS 32230 NAVIGATING THE MUSIC INDUSTRY 3 Credit Hours**

An overview and study of the music industry. Current practices are examined including artist contracts, music copyright and licensing, and revenue flow from music consumers to content creators. Special emphasis is placed on entrepreneurial activity within the music industry.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MUS 33211 ELEMENTARY AND SECONDARY GENERAL MUSIC 4 Credit Hours**

Kodaly, Orff, Dalcroze and current strategies appropriate for early childhood K-12 general music classrooms. Emphasis on teaching diverse learners, including special student populations. Clinical experience in the teaching of general music in the schools. Forty (40) field hours required.

**Prerequisite:** Admission to advanced study; and MUS 23241 with a minimum C grade; and music or music education major; and junior standing.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 3 lecture, 1 lab

**Grade Mode:** Standard Letter

**MUS 33214 MUSIC TECHNOLOGY FOR MUSIC EDUCATORS 1 Credit Hour**

The application of technologies specific to music instruction and learning for music education majors. Emphasis is placed on project-based instruction focusing on the practical uses of technology in school settings.

**Prerequisite:** Music education major.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 1 lecture, 1 lab

**Grade Mode:** Standard Letter

**MUS 33231 ELEMENTARY AND SECONDARY CHORAL MUSIC 4 Credit Hours**

Methods, materials, and literature used in elementary and secondary choral music programs; designing a choral curriculum, advocacy and assessment, lesson planning, program organization, budget. Clinical experience in the teaching of choral music. Forty (40) field hours required.

**Prerequisite:** Admission to advanced study; and MUS 23241 and 34111 with a minimum C grade; and junior standing.

**Schedule Type:** Laboratory, Lecture, Combined Lecture and Lab

**Contact Hours:** 3 lecture, 2 lab

**Grade Mode:** Standard Letter

**MUS 33314 PROGRESSIVE AND VERNACULAR MUSIC METHODS 2 Credit Hours**

Elementary through secondary instruction in music methods related to vernacular and popular music styles. Students will gain experience in lesson planning, program organization, recruiting, and performing with ensembles that exist outside of the band-orchestra-chorus model including, but not limited to, rock bands, technology-based ensembles, and other non-traditional ensembles. Experiences will focus on popular and vernacular music-making techniques, facilitating small- and large-group instruction, and incorporating these experiences within the traditional school music setting.

**Prerequisite:** Admission to advanced study; and MUS 23241 with a minimum C grade; and music education major; and completion of the music education professional evaluation.

**Schedule Type:** Laboratory, Lecture, Combined Lecture and Lab

**Contact Hours:** 1 lecture, 2 lab

**Grade Mode:** Standard Letter

**MUS 34111 INTRODUCTION TO CONDUCTING 2 Credit Hours**

Introduction to and study of conducting: beat patterns, baton techniques, score reading, analysis and interpretive elements. Six field/clinical hours are required.

**Prerequisite:** MUS 11122 with a minimum C grade; and junior standing.

**Schedule Type:** Laboratory, Lecture, Combined Lecture and Lab

**Contact Hours:** 1 lecture, 2 lab

**Grade Mode:** Standard Letter

**MUS 34211 ELEMENTARY AND SECONDARY GENERAL MUSIC 2 Credit Hours**

Kodaly, Orff, Dalcroze, and current strategies appropriate for early childhood K-12 general music classrooms. Emphasis on teaching diverse learners, including special student populations. Clinical experience in the teaching of general music in the schools. Thirty (30) field hours required.

**Prerequisite:** Admission to advanced study; and MUS 23241 with a minimum C grade; and music or music education major; and completion of the music education professional evaluation; and junior standing.

**Schedule Type:** Laboratory, Lecture, Combined Lecture and Lab

**Contact Hours:** 1 lecture, 3 lab

**Grade Mode:** Standard Letter

**MUS 34212 ELEMENTARY AND SECONDARY CHORAL MUSIC 2 Credit Hours**

Methods, materials, and literature used in elementary and secondary choral music programs; designing a choral curriculum, advocacy and assessment, lesson planning, program organization, budget. Clinical experience in the teaching of choral music. Thirty (30) field hours required.

**Prerequisite:** Admission to advanced study; and MUS 23241 and 34111 with a minimum C grade; and completion of the music education professional evaluation; and junior standing.

**Schedule Type:** Laboratory, Lecture, Combined Lecture and Lab

**Contact Hours:** 1 lecture, 3 lab

**Grade Mode:** Standard Letter

**MUS 35213 STUDIO ENSEMBLE 1 Credit Hour**

(Repeatable for a maximum of 16 credit hours) Development of ensemble skills through small group experience performing diverse popular styles from notation, developing improvisation skills and creating arrangements from lead charts. Students must audition for the director prior to registration for the course.

**Prerequisite:** Special approval.

**Schedule Type:** Studio

**Contact Hours:** 2 other

**Grade Mode:** Standard Letter

**MUS 36011 APPLIED MUSIC - JAZZ 2,4 Credit Hours**

(Repeatable for credit) Private instrumental instruction in Jazz techniques.

**Prerequisite:** Audition; and special approval.

**Schedule Type:** Private Lesson

**Contact Hours:** 1.5-2 other

**Grade Mode:** Standard Letter

**MUS 36111 APPLIED MUSIC-PIANO 2,4 Credit Hours**

(Repeatable for credit) A comprehensive study of performance, technique and repertoire appropriate to music majors and minors. Individual study. Students must audition to be accepted into this course.

**Prerequisite:** Music, music technology or music education major.

**Schedule Type:** Private Lesson, Studio

**Contact Hours:** 1.5-2 other

**Grade Mode:** Standard Letter

**Attributes:** TAG Arts and Humanities

**MUS 36311 APPLIED MUSIC-VOICE 2,4 Credit Hours**

(Repeatable for credit) A comprehensive study of performance, technique and repertoire appropriate to music majors and minors. Individual study. Students must audition to be accepted into this course.

**Prerequisite:** Music, music technology or music education major.

**Schedule Type:** Private Lesson, Studio

**Contact Hours:** 1 other

**Grade Mode:** Standard Letter

**Attributes:** TAG Arts and Humanities

**MUS 36411 APPLIED MUSIC-VIOLIN 2,4 Credit Hours**

(Repeatable for credit) A comprehensive study of performance, technique and repertoire appropriate to music majors and minors. Individual study. Students must audition to be accepted into this course.

**Prerequisite:** Music, music technology or music education major.

**Schedule Type:** Private Lesson, Studio

**Contact Hours:** 1 other

**Grade Mode:** Standard Letter

**Attributes:** TAG Arts and Humanities

**MUS 36412 APPLIED MUSIC-VIOLA 2,4 Credit Hours**

(Repeatable for credit) A comprehensive study of performance, technique and repertoire appropriate to music majors and minors. Individual study. Students must audition to be accepted into this course.

**Prerequisite:** Music, music technology or music education major.

**Schedule Type:** Private Lesson, Studio

**Contact Hours:** 1 other

**Grade Mode:** Standard Letter

**Attributes:** TAG Arts and Humanities

**MUS 36413 APPLIED MUSIC-CELLO 2,4 Credit Hours**

(Repeatable for credit) A comprehensive study of performance, technique and repertoire appropriate to music majors and minors. Individual study. Students must audition to be accepted into this course.

**Prerequisite:** Music, music technology or music education major.

**Schedule Type:** Private Lesson, Studio

**Contact Hours:** 1 other

**Grade Mode:** Standard Letter

**Attributes:** TAG Arts and Humanities

**MUS 36414 APPLIED MUSIC-DOUBLE BASS 2,4 Credit Hours**

(Repeatable for credit) A comprehensive study of performance, technique and repertoire appropriate to music majors and minors. Individual study. Students must audition to be accepted into this course.

**Prerequisite:** Music, music technology or music education major.

**Schedule Type:** Private Lesson, Studio

**Contact Hours:** 1 other

**Grade Mode:** Standard Letter

**Attributes:** TAG Arts and Humanities

**MUS 36511 APPLIED MUSIC-FLUTE 2,4 Credit Hours**

(Repeatable for credit) A comprehensive study of performance, technique and repertoire appropriate to music majors and minors. Individual study. Students must audition to be accepted into this course.

**Prerequisite:** Music, music technology or music education major.

**Schedule Type:** Private Lesson, Studio

**Contact Hours:** 1 other

**Grade Mode:** Standard Letter

**Attributes:** TAG Arts and Humanities

**MUS 36512 APPLIED MUSIC-OBOE 2,4 Credit Hours**

(Repeatable for credit) A comprehensive study of performance, technique and repertoire appropriate to music majors and minors. Individual study. Students must audition to be accepted into this course.

**Prerequisite:** Music, music technology or music education major.

**Schedule Type:** Private Lesson, Studio

**Contact Hours:** 1 other

**Grade Mode:** Standard Letter

**Attributes:** TAG Arts and Humanities



**MUS 36513 APPLIED MUSIC-CLARINET 2,4 Credit Hours**  
 (Repeatable for credit) A comprehensive study of performance, technique and repertoire appropriate to music majors and minors. Individual study. Students must audition to be accepted into this course.  
**Prerequisite:** Music, music technology or music education major.  
**Schedule Type:** Private Lesson, Studio  
**Contact Hours:** 1 other  
**Grade Mode:** Standard Letter  
**Attributes:** TAG Arts and Humanities

**MUS 36514 APPLIED MUSIC-BASSOON 2,4 Credit Hours**  
 (Repeatable for credit) A comprehensive study of performance, technique and repertoire appropriate to music majors and minors. Individual study. Students must audition to be accepted into this course.  
**Prerequisite:** Music, music technology or music education major.  
**Schedule Type:** Private Lesson, Studio  
**Contact Hours:** 1 other  
**Grade Mode:** Standard Letter  
**Attributes:** TAG Arts and Humanities

**MUS 36515 APPLIED MUSIC-SAXOPHONE 2,4 Credit Hours**  
 (Repeatable for credit) A comprehensive study of performance, technique and repertoire appropriate to music majors and minors. Individual study. Students must audition to be accepted into this course.  
**Prerequisite:** Music, music technology or music education major.  
**Schedule Type:** Private Lesson, Studio  
**Contact Hours:** 1 other  
**Grade Mode:** Standard Letter  
**Attributes:** TAG Arts and Humanities

**MUS 36611 APPLIED MUSIC-TRUMPET 2,4 Credit Hours**  
 (Repeatable for credit) A comprehensive study of performance, technique and repertoire appropriate to music majors and minors. Individual study. Students must audition to be accepted into this course.  
**Prerequisite:** Music, music technology or music education major.  
**Schedule Type:** Private Lesson, Studio  
**Contact Hours:** 1 other  
**Grade Mode:** Standard Letter  
**Attributes:** TAG Arts and Humanities

**MUS 36612 APPLIED MUSIC-HORN 2,4 Credit Hours**  
 (Repeatable for credit) A comprehensive study of performance, technique and repertoire appropriate to music majors and minors. Individual study. Students must audition to be accepted into this course.  
**Prerequisite:** Music, music technology or music education major.  
**Schedule Type:** Private Lesson, Studio  
**Contact Hours:** 1 other  
**Grade Mode:** Standard Letter  
**Attributes:** TAG Arts and Humanities

**MUS 36613 APPLIED MUSIC-TROMBONE 2,4 Credit Hours**  
 (Repeatable for credit) A comprehensive study of performance, technique and repertoire appropriate to music majors and minors. Individual study. Students must audition to be accepted into this course.  
**Prerequisite:** Music, music technology or music education major.  
**Schedule Type:** Private Lesson, Studio  
**Contact Hours:** 1 other  
**Grade Mode:** Standard Letter  
**Attributes:** TAG Arts and Humanities

**MUS 36614 APPLIED MUSIC-EUPHONIUM 2,4 Credit Hours**  
 (Repeatable for credit) A comprehensive study of performance, technique and repertoire appropriate to music majors and minors. Individual study. Students must audition to be accepted into this course.  
**Prerequisite:** Music, music technology or music education major.  
**Schedule Type:** Private Lesson, Studio  
**Contact Hours:** 1 other  
**Grade Mode:** Standard Letter  
**Attributes:** TAG Arts and Humanities

**MUS 36615 APPLIED MUSIC-TUBA 2,4 Credit Hours**  
 (Repeatable for credit) A comprehensive study of performance, technique and repertoire appropriate to music majors and minors. Individual study. Students must audition to be accepted into this course.  
**Prerequisite:** Music, music technology or music education major.  
**Schedule Type:** Private Lesson, Studio  
**Contact Hours:** 1 other  
**Grade Mode:** Standard Letter  
**Attributes:** TAG Arts and Humanities

**MUS 36711 APPLIED MUSIC-PERCUSSION 2,4 Credit Hours**  
 (Repeatable for credit) A comprehensive study of performance, technique and repertoire appropriate to music majors and minors. Individual study. Students must audition to be accepted into this course.  
**Prerequisite:** Music, music technology or music education major.  
**Schedule Type:** Private Lesson, Studio  
**Contact Hours:** 1 other  
**Grade Mode:** Standard Letter  
**Attributes:** TAG Arts and Humanities

**MUS 36912 APPLIED MUSIC-GUITAR 2,4 Credit Hours**  
 (Repeatable for credit) A comprehensive study of performance, technique and repertoire appropriate to music majors and minors. Individual study. Students must audition to be accepted into this course.  
**Prerequisite:** Music, music technology or music education major.  
**Schedule Type:** Private Lesson, Studio  
**Contact Hours:** 1.5-2 other  
**Grade Mode:** Standard Letter  
**Attributes:** TAG Arts and Humanities

**MUS 36913 APPLIED STUDIO MUSICIANSHIP 2-4 Credit Hours**  
 (Repeatable for a maximum of 16 credit hours) Development of performance proficiency in contemporary popular music styles appropriate for the performance idiom through individual instruction. Students must audition for the director prior to registration for the course.  
**Prerequisite:** Special approval.  
**Schedule Type:** Studio  
**Contact Hours:** 2-4 other  
**Grade Mode:** Standard Letter

**MUS 36914 ELECTRIC GUITAR APPLIED STUDIO MUSICIANSHIP 2-4 Credit Hours**  
 (Repeatable for credit) Development of performance proficiency in popular music styles. An audition is required.  
**Prerequisite:** Music and music technology majors; and special approval.  
**Schedule Type:** Private Lesson, Studio  
**Contact Hours:** 2-4 other  
**Grade Mode:** Standard Letter



**MUS 36915 ELECTRIC BASS APPLIED STUDIO MUSICIANSHIP 2-4 Credit Hours**

(Repeatable for credit) Development of performance proficiency in popular music styles.

**Prerequisite:** Music and music technology majors.

**Schedule Type:** Private Lesson, Studio

**Contact Hours:** 2-4 other

**Grade Mode:** Standard Letter

**MUS 36916 DRUM SET PERCUSSION APPLIED STUDIO MUSICIANSHIP 2,4 Credit Hours**

(Repeatable for credit) Development of performance proficiency in popular music styles. An audition is required.

**Prerequisite:** Music and music technology majors; and special approval.

**Schedule Type:** Private Lesson, Studio

**Contact Hours:** 2-4 other

**Grade Mode:** Standard Letter

**MUS 36917 KEYBOARD APPLIED STUDIO MUSICIANSHIP 2-4 Credit Hours**

(Repeatable for credit) Development of performance proficiency in popular music styles. An audition is required.

**Prerequisite:** Music and music technology majors; and special approval.

**Schedule Type:** Private Lesson, Studio

**Contact Hours:** 2-4 other

**Grade Mode:** Standard Letter

**MUS 36918 CONTEMPORARY VOICE APPLIED STUDIO MUSICIANSHIP 2,4 Credit Hours**

(Repeatable for credit) Development of performance proficiency in popular music styles. An audition is required.

**Prerequisite:** Music and music technology majors; and special approval.

**Schedule Type:** Private Lesson, Studio

**Contact Hours:** 2-4 other

**Grade Mode:** Standard Letter

**MUS 36919 FLUTE APPLIED STUDIO MUSICIANSHIP 2,4 Credit Hours**

(Repeatable for credit) Development of performance proficiency in popular music styles. An audition is required.

**Prerequisite:** Music major or music technology major.

**Schedule Type:** Private Lesson, Studio

**Contact Hours:** 1.5-2 other

**Grade Mode:** Standard Letter

**MUS 36920 CLARINET APPLIED STUDIO MUSICIANSHIP 2,4 Credit Hours**

(Repeatable for credit) Development of performance proficiency in popular music styles. An audition is required.

**Prerequisite:** Music major or music technology major.

**Schedule Type:** Private Lesson, Studio

**Contact Hours:** 1.5-2 other

**Grade Mode:** Standard Letter

**MUS 36921 SAXOPHONE APPLIED STUDIO MUSICIANSHIP 2,4 Credit Hours**

(Repeatable for credit) Development of performance proficiency in popular music styles. An audition is required.

**Prerequisite:** Music major or music technology major.

**Schedule Type:** Private Lesson, Studio

**Contact Hours:** 1.5-2 other

**Grade Mode:** Standard Letter

**MUS 36922 TRUMPET APPLIED STUDIO MUSICIANSHIP 2,4 Credit Hours**

(Repeatable for credit) Development of performance proficiency in popular music styles. An audition is required.

**Prerequisite:** Music major or music technology major.

**Schedule Type:** Private Lesson, Studio

**Contact Hours:** 1.5-2 other

**Grade Mode:** Standard Letter

**MUS 36923 HORN APPLIED STUDIO MUSICIANSHIP 2,4 Credit Hours**

(Repeatable for credit) Development of performance proficiency in popular music styles. An audition is required.

**Prerequisite:** Music major or music technology major.

**Schedule Type:** Private Lesson, Studio

**Contact Hours:** 1.5-2 other

**Grade Mode:** Standard Letter

**MUS 36924 TROMBONE APPLIED STUDIO MUSICIANSHIP 2,4 Credit Hours**

(Repeatable for credit) Development of performance proficiency in popular music styles. An audition is required.

**Prerequisite:** Music major or music technology major.

**Schedule Type:** Private Lesson, Studio

**Contact Hours:** 1.5-2 other

**Grade Mode:** Standard Letter

**MUS 37111 CONTEMPORARY POPULAR PIANO 2 Credit Hours**

Development of keyboard applications in contemporary popular music styles with a focus on music theory.

**Prerequisite:** MUS 17112 with a minimum C grade.

**Corequisite:** MUS 21341.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**MUS 37113 PIANO SKILLS FOR THE CHORAL/GENERAL MUSIC EDUCATOR 2 Credit Hours**

Development of keyboard skills for practical purposes in the classroom and ensemble rehearsals.

**Prerequisite:** MUS 11122 and 36111 with a minimum C grade.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**MUS 37114 PIANO SKILLS FOR THE INSTRUMENTAL MUSIC EDUCATOR 1 Credit Hour**

Development of keyboard skills for practical purposes in the classroom and ensemble rehearsals.

**Prerequisite:** MUS 11122 and MUS 17112 with a minimum C grade or minimum score of 80 on piano placement test.

**Schedule Type:** Laboratory

**Contact Hours:** 2 lab

**Grade Mode:** Standard Letter

**MUS 40092 MUSIC TECHNOLOGY INTERNSHIP (ELR) 2 Credit Hours**  
(Repeatable for a maximum of 4 credit hours) On-the-job experience with cooperating business in the field of music technology and preparation of a final report or an applicable project. Students must have a minimum 2.250 major GPA to register for the course.

**Prerequisite:** MUS 31114 or MUS 31222 with a minimum C grade; and Music Technology major; and special approval.

**Schedule Type:** Practical Experience

**Contact Hours:** 8 other

**Grade Mode:** Standard Letter-IP

**Attributes:** Experiential Learning Requirement

**MUS 40295 SPECIAL TOPICS IN MUSIC 1-3 Credit Hours**  
(Repeatable for a total of 12 hours) Academic study in areas not offered adequately in the music curriculum. Topic areas are of special interest to the faculty member.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 1-3 lecture

**Grade Mode:** Standard Letter

**MUS 40296 INDEPENDENT STUDY:MUSIC 1-3 Credit Hours**  
(Repeatable for credit) Individual investigation in music topics not offered as either regular coursework or beyond the scope of existing music major courses.

**Prerequisite:** Music or music education major; and special approval.

**Schedule Type:** Individual Investigation

**Contact Hours:** 1-3 other

**Grade Mode:** Satisfactory/Unsatisfactory

**MUS 41011 AURAL MUSIC THEORY 1 Credit Hour**  
Focus on solfege singing, ear training, and aural analysis in preparation for graduate level music theory coursework.

**Prerequisite:** Special approval.

**Schedule Type:** Laboratory, Lecture, Combined Lecture and Lab

**Contact Hours:** .5 lecture, 1 lab

**Grade Mode:** Standard Letter

**MUS 41012 WRITTEN MUSIC THEORY 1 Credit Hour**  
Focus on harmony, counterpoint, and written analysis in preparation for graduate level music theory coursework.

**Prerequisite:** Special approval.

**Schedule Type:** Laboratory, Lecture, Combined Lecture and Lab

**Contact Hours:** .5 lecture, 1 lab

**Grade Mode:** Standard Letter

**MUS 41111 PRACTICUM IN MUSIC THEORY 2 Credit Hours**  
Ear training, sight singing and analysis in preparation for graduate level music theory course work.

**Prerequisite:** Permission.

**Schedule Type:** Private Lesson

**Contact Hours:** 2 other

**Grade Mode:** Standard Letter

**MUS 41112 WESTERN MUSIC SINCE 1945 1 Credit Hour**  
The study of Western art music since 1945 from historical and theoretical viewpoints. Emphasis on analysis, composition, listening and intellectual understanding.

**Prerequisite:** MUS 21112 and MUS 32212 with a minimum C grade.

**Schedule Type:** Laboratory

**Contact Hours:** 2 lab

**Grade Mode:** Standard Letter

**MUS 41113 MUSIC PRODUCTION V 3 Credit Hours**  
Continuation of Music Production IV, create music to accompany a visual medium by learning fundamental to more advanced film scoring techniques.

**Prerequisite:** MUS 31114 with a minimum C grade.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MUS 41114 MUSIC PRODUCTION VI 3 Credit Hours**  
Continuation of Music Production V, advanced sequencing, synthesis and audio editing techniques as applied to music production. Focus is on original music.

**Prerequisite:** MUS 41113 with a minimum C grade.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MUS 41131 KEYBOARD HARMONY 3 Credit Hours**  
Theoretical skills demonstrated at the keyboard: harmonization of melodies in homophonic style, realization of figured bass, score reading, modulation and improvisation.

**Prerequisite:** MUS 21112 with a minimum C grade.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MUS 41141 SIXTEENTH-CENTURY COUNTERPOINT 3 Credit Hours**  
Two-, three -and four part vocal counterpoint in 16th century style.

**Prerequisite:** MUS 21112 with a minimum C grade.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MUS 41151 EIGHTEENTH-CENTURY COUNTERPOINT 3 Credit Hours**  
Technique of writing counterpoint in 18th-century style, especially that of J. S. Bach.

**Prerequisite:** MUS 21112 with a minimum C grade.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MUS 41161 ADVANCED MUSICAL ANALYSIS 3 Credit Hours**  
A study of recent approaches to tonal and nontonal musical analysis. Emphasis on familiarity with styles, nomenclature and appropriate graphic techniques.

**Prerequisite:** MUS 41112 with a minimum C grade.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MUS 41181 ACOUSTICS AND TECHNOLOGY IN MUSIC 2 Credit Hours**

An introduction to acoustics and psychoacoustics in direct relationship to music, and an introduction to uses of technology in music composition, performance, notation, theory, history and pedagogy.

**Prerequisite:** Music technology major.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**MUS 41211 COMPOSITION 2,4 Credit Hours**

(Repeatable for credit) Study of the materials and techniques of musical composition culminating in original works based upon observable principles of unity and variety.

**Prerequisite:** Composition or music or music education major.

**Schedule Type:** Private Lesson, Studio

**Contact Hours:** 2-4 other

**Grade Mode:** Standard Letter

**MUS 41221 AUDIO RECORDING V 3 Credit Hours**

A continuation of Audio Recording IV. Covered topics include advanced mixing techniques using analog console automation, mixing for surround sound, and fundamentals of audio mastering.

**Prerequisite:** MUS 31222 with a minimum C grade.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MUS 41222 AUDIO RECORDING VI 3 Credit Hours**

A comprehensive record production experience from pre-production through recording, editing, mixing and mastering a complete audio project. Alternatively, students may opt to complete a research-based thesis document.

**Prerequisite:** MUS 41221 with a minimum C grade.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MUS 41299 SENIOR PROJECT:MUSIC COMPOSITION (ELR) 2 Credit Hours**

(Repeatable for credit)The final composition experience prior to graduation: a recital of individually composed works must be presented.

**Prerequisite:** MUS 41211 with a minimum C grade.

**Schedule Type:** Senior Project/Honors Thesis

**Contact Hours:** 2 other

**Grade Mode:** Standard Letter

**Attributes:** Experiential Learning Requirement

**MUS 41321 ORCHESTRATION 3 Credit Hours**

Ranges, tonal possibilities, technical limitations and transpositions for all orchestral instruments. Scoring techniques and analysis of representative instrumental ensemble repertoire.

**Prerequisite:** MUS 21112 with a minimum C grade.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MUS 41341 JAZZ IMPROVISATION I 1 Credit Hour**

(Repeatable for a total of 2 credit hours) A beginner's introduction to Jazz Improvisation. Theory and daily playing will be enhanced by ear training.

**Prerequisite:** Special approval.

**Schedule Type:** Laboratory

**Contact Hours:** 2 other

**Grade Mode:** Standard Letter

**MUS 41342 JAZZ COMPOSING AND ARRANGING 2 Credit Hours**

(Repeatable for credit) Composing and arranging for the large and small jazz ensemble.

**Prerequisite:** MUS 17013 with a minimum C grade.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**MUS 41351 JAZZ IMPROVISATION II 1 Credit Hour**

The presentation of a methodical approach to learning standard Jazz repertoire.

**Prerequisite:** MUS 41341 with a minimum C grade or special approval via audition.

**Schedule Type:** Laboratory

**Contact Hours:** 2 lab

**Grade Mode:** Standard Letter

**MUS 42101 ROOTS OF ROCK 3 Credit Hours**

Roots of Rock is a comprehensive survey of the various genres of American music in the 20th century that contributed to the development of rock music. Important performers in various styles and their contributions to the art form are explored. Pioneers in the fields of recording, artist management and production are studied. Rock music's contributions to the emergence of American culture are viewed in the context of social, racial and political changes. The impact of technological advances in radio, recording and television are also studied.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MUS 42111 AFRICAN MUSIC AND CULTURES 3 Credit Hours**

African music as related to social sciences and humanities. Oral traditions. Use of music recordings, tapes, musical instruments, participation in performance and group work involvement.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MUS 42131 AMERICA'S MUSIC 3 Credit Hours**

Historical survey of music in America from New England psalmody to present-day compositional trends.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MUS 42141 FOLK MUSIC OF EUROPE AND NORTH AMERICA 3 Credit Hours**

(Slashed with MUS 52141) Study of selected music cultures of Eastern and Western Europe, and South, Central and North America.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MUS 42151 ASIAN MUSICS 3 Credit Hours**

Survey of Asian musics. Emphasis on art, folk and popular musics and relationships of these musics to their respective cultures.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MUS 42161 HISTORY OF JAZZ (DIVD) 3 Credit Hours**

The evolution of jazz from its origin to present.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Diversity Domestic

**MUS 42162 JAZZ STYLES AND ANALYSIS 3 Credit Hours**

An approach to jazz history from the perspective of major artists such as: Louis Armstrong, Duke Ellington, Charlie Parker, Miles Davis and John Coltrane.

**Prerequisite:** MUS 41341 with a minimum C grade.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MUS 42165 HISTORY OF CONTEMPORARY POPULAR MUSIC (DIVD) (WIC) 3 Credit Hours**

A study of popular music from the 1950s to the present. Course content will highlight significant artists, examine important style elements, and expose students to a variety of repertoire. This course will emphasize music theory and orchestration to understand and differentiate style. An overview of the history and development of recording technology is an important component of this course.

**Prerequisite:** MUS 21341.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Diversity Domestic, Writing Intensive Course

**MUS 42181 POPULAR WORLD MUSIC (DIVG) 3 Credit Hours**

(Slashed with MUS 52181) A survey of popular world music genres from North America, the Caribbean, South America, Europe, Africa and Asia. Emphasis is on recognizing music literature, prominent artists and music styles, as well as related cultural events. Modern media, especially the Internet, is an integral component of the course.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Diversity Global

**MUS 42221 SYMPHONIC LITERATURE 3 Credit Hours**

Historical and stylistic survey of music for large instrumental ensemble.

**Prerequisite:** MUS 21112 with a minimum C grade.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MUS 42232 PIANO LITERATURE I 2 Credit Hours**

Survey of keyboard suites, sonatas and concerti from the 16th century to the present. Emphasis on performing, listening, and analysis.

**Prerequisite:** Music major.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**MUS 42241 PIANO LITERATURE 3 Credit Hours**

Survey of keyboard and piano literature from the 16th century to the present; study of related forms and styles. Emphasis on performing listening and analysis.

**Prerequisite:** Special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MUS 42242 PIANO LITERATURE II 2 Credit Hours**

Survey of character pieces and variations from the 16th century to the present. Emphasis on performing, listening, and analysis.

**Prerequisite:** Music major.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**MUS 42251 SONG LITERATURE 3 Credit Hours**

A study of vocal literature from the 16th century to the present. Emphasis upon the style, interpretation and presentation of solo materials for all voice classifications.

**Prerequisite:** MUS 22111 with a minimum C grade; and junior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MUS 42261 OPERA LITERATURE 3 Credit Hours**

The historical development of opera from the 17th century to the present. Detailed analysis of representative works.

**Prerequisite:** MUS 22111 with a minimum C grade; and junior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MUS 42271 CHORAL LITERATURE I 3 Credit Hours**

Study of Western European choral literature from approximately 1450 to the early nineteenth century, i.e., Renaissance, Baroque and Classical periods.

**Prerequisite:** MUS 31121 with a minimum C grade; and special approval of instructor.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MUS 42272 CHORAL LITERATURE II 3 Credit Hours**

(Slashed with MUS 52272) Continuation of Choral Literature I. A study of Western European and North American choral music of the early 19th century to the present (roughly 1830 to the present).

**Prerequisite:** MUS 31121 with a minimum C grade; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MUS 42357 STUDENT TEACHING (ELR) 9 Credit Hours**

Provides a 16-week student teaching experience. Off-campus arrangements are handled by the College of Education, Health and Human Services and the School of Music.

**Prerequisite:** Music education major; official valid certification of child safety training, approved basic life support and ALICE training must be presented to the campus office of clinical experience or designated faculty/staff at regional campuses as prerequisite for student teaching; and special approval.

**Corequisite:** MUS 49525.

**Schedule Type:** Practical Experience

**Contact Hours:** 9 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**Attributes:** Experiential Learning Requirement

**MUS 43211 INSTRUMENTAL METHODS II 4 Credit Hours**

Secondary instrumental instruction; program organization, budget, advocacy, assessment, rehearsal planning, literature and teaching techniques. Clinical experience in the teaching of music. Forty (40) field hours required.

**Prerequisite:** Admission to advanced study; and minimum C grade in MUS 23241 and 34111 and 43231; and junior standing.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 3 lecture, 2 lab

**Grade Mode:** Standard Letter

**MUS 43231 INSTRUMENTAL METHODS I 4 Credit Hours**

Elementary and middle school instrumental instruction, program organization, rehearsal teaching techniques, lesson plans, literature, assessment, scheduling, recruiting, modeling and interactive teaching. Clinical experience in the teaching of music. Forty (40) field hours required.

**Prerequisite:** Admission to advanced study; and MUS 23241 with a minimum C grade; and music or music education major; and junior standing.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 3 lecture, 2 lab

**Grade Mode:** Standard Letter

**MUS 43241 MARCHING BAND TECHNIQUES AND LITERATURE 1 Credit Hour**

Organization, administration and techniques of marching bands in the schools. Topics covered include musical styles, literature and show design.

**Prerequisite:** Music education major; and sophomore standing.

**Schedule Type:** Combined Lecture and Lab, Combined Lec/Lab-Open Learning

**Contact Hours:** 1 lab

**Grade Mode:** Standard Letter

**MUS 43242 JAZZ ENSEMBLE TECHNIQUES AND LITERATURE 2 Credit Hours**

Study of the curriculum for the jazz ensemble, including organizational and administrative procedures. Emphasis on music interpretation jazz styles and rehearsal techniques taught through laboratory experience.

**Prerequisite:** Special approval.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**MUS 43243 CONTEMPORARY CHORAL METHODS IN THE SCHOOLS 3 Credit Hours**

(Slashed with MUS 53243) Basic techniques and materials for teaching vocal jazz and musical theatre in the schools. Administration, organization and publicity for productions as well as literature for these performing groups will be explored.

**Prerequisite:** Music education major or music major; and junior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MUS 43245 JAZZ ENSEMBLE TECHNIQUES AND LITERATURE 1 Credit Hour**

(Slashed with MUS 53245) Study of the curriculum for the jazz ensemble, including organizational and administrative procedures. Emphasis on music interpretation of jazz styles and rehearsal techniques taught through laboratory experiences. One hour of field observation is required.

**Prerequisite:** Special approval.

**Schedule Type:** Laboratory

**Contact Hours:** 3 lab

**Grade Mode:** Standard Letter

**MUS 43264 METHODS IN ROCK BAND PERFORMANCE AND PEDAGOGY 3 Credit Hours**

(Slashed with MUS 53264) In this course, students will participate in small rock ensembles and will examine the pedagogy of that type of ensemble. Lectures and demonstrations will include topics such as equipment selection, repertoire selection, and performance techniques. An additional emphasis of this course will be techniques for amplifying rock ensembles. Students will also learn fundamental techniques for recording rock ensembles.

**Prerequisite:** Special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MUS 43265 METHODS IN JAZZ PERFORMANCE AND PEDAGOGY 3 Credit Hours**

(Slashed with MUS 53265) In this course, students will participate in immersive experiences in various aspects of vocal and instrumental jazz: solo performing, ensemble rehearsal techniques, repertoire selection and sources, jazz theory, improvisation, working with a rhythm section, and sound reinforcement. Students will also participate in a workshop ensemble to experience the art form as a member of a jazz ensemble.

**Prerequisite:** Special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MUS 44111 ADVANCED CHORAL CONDUCTING 3 Credit Hours**

Continued development of conducting technique, score reading analysis, styles, interpretation, rehearsal procedure, diction issues as they relate to conducting and pedagogy, and arranging voice-part adaptation for choral ensembles. Six field or clinical hours are required.

**Prerequisite:** Minimum C grade in MUS 21111, MUS 34111 and MUS 37113.

**Schedule Type:** Laboratory, Lecture, Combined Lecture and Lab

**Contact Hours:** 2 lecture, 2 lab

**Grade Mode:** Standard Letter

**MUS 44121 ADVANCED INSTRUMENTAL CONDUCTING 3 Credit Hours**

Continued development of conducting technique, score reading analysis, styles, interpretation, rehearsal procedure and arranging for instrumental organizations. Six field or clinical hours are required.

**Prerequisite:** MUS 21111 and MUS 34111 with a minimum C grade.

**Schedule Type:** Laboratory, Lecture, Combined Lecture and Lab

**Contact Hours:** 2 lecture, 2 lab

**Grade Mode:** Standard Letter



**MUS 44211 INSTRUMENTAL METHODS I 2 Credit Hours**

Elementary and middle school instrumental instruction, program organization, rehearsal teaching techniques, lesson plans, literature, assessment, scheduling, recruiting, modeling and interactive teaching. Clinical experience in the teaching of music. Thirty (30) field hours required.

**Prerequisite:** Admission to advanced study; and MUS 23241 with a minimum C grade; and minimum C grade and 2 credits in MUS 47412, MUS 47512, MUS 47513, MUS 47612 or MUS 47712; and music or music education major; and completion of the music education professional evaluation; and junior standing.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 1 lecture, 3 lab

**Grade Mode:** Standard Letter

**MUS 44212 INSTRUMENTAL METHODS II 2 Credit Hours**

Secondary instrumental instruction; program organization, budget, advocacy, assessment, rehearsal planning, literature and teaching techniques. Clinical experience in the teaching of music. Thirty (30) field hours required.

**Prerequisite:** Admission to advanced study; and minimum C grade in MUS 23241, MUS 34111 and MUS 44211; and minimum C grade in either MUS 47412, MUS 47512, MUS 47513, MUS 47612 or MUS 47712; and completion of the music education professional evaluation; and junior standing.

**Schedule Type:** Laboratory, Lecture, Combined Lecture and Lab

**Contact Hours:** 1 lecture, 3 lab

**Grade Mode:** Standard Letter

**MUS 45111 UNIVERSITY CHOIR 1 Credit Hour**

(Repeatable for credit) Study and performance of choral music from Renaissance through contemporary styles, large and small forms with appropriate accompaniment.

**Prerequisite:** Special approval.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**Attributes:** TAG Arts and Humanities

**MUS 45121 KENT CHORUS 1 Credit Hour**

(Repeatable for credit) Study and performance of choral music from Renaissance through contemporary styles, large and small forms with appropriate accompaniment.

**Prerequisite:** Special approval.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 2.5 other

**Grade Mode:** Standard Letter

**Attributes:** TAG Arts and Humanities

**MUS 45131 OPERA: SINGER-ACTOR TECHNIQUES 1 Credit Hour**

(Repeatable for credit) Training in methods and skills necessary to the art of the singer-actor. Opera performed and prepared via study observation and rehearsal.

**Prerequisite:** Audition.

**Schedule Type:** Studio

**Contact Hours:** 9.5 other

**Grade Mode:** Standard Letter

**MUS 45141 KENT STATE UNIVERSITY CHORALE 1 Credit Hour**

(Repeatable for credit) Study and performance of literature for vocal chamber ensemble from medieval through contemporary styles with appropriate accompaniment sung in the original language. An audition is required before registering for this course.

**Prerequisite:** Special approval.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 4.5 other

**Grade Mode:** Standard Letter

**Attributes:** TAG Arts and Humanities

**MUS 45142 CORO CANTARE 1 Credit Hour**

(Repeatable for credit) (Slashed with MUS 55142) A chorus of tenor, baritone and bass voices. Open to all students regardless of gender identity. Emphasis on music literacy, vocal production instruction, study and performance of music written for tenor, baritone and bass voices. The group performs choral literature spanning many centuries and reflecting diverse cultures. Experience with mixed-voice choirs also occurs. Audition required.

**Prerequisite:** None.

**Schedule Type:** Laboratory

**Contact Hours:** 3 lab

**Grade Mode:** Standard Letter

**Attributes:** TAG Arts and Humanities

**MUS 45143 CANTIQUE 1 Credit Hour**

(Repeatable for credit) (Slashed with MUS 55143) A chorus of soprano and alto voices. Open to all students regardless of gender identity. Emphasis on music literacy, vocal production instruction, study and performance of music written for soprano and alto voices. The group performs choral literature spanning many centuries and reflecting diverse cultures. Experience with mixed-voice choirs also occurs. Audition required.

**Prerequisite:** None.

**Schedule Type:** Laboratory

**Contact Hours:** 3 lab

**Grade Mode:** Standard Letter

**Attributes:** TAG Arts and Humanities

**MUS 45151 KENT STATE UNIVERSITY GOSPEL CHOIR 1 Credit Hour**

(Repeatable for credit) Study and performance of choral music in the gospel tradition, including works by contemporary artists. One weekly rehearsal and a minimum of one concert per semester. Off-campus concerts are possible.

**Prerequisite:** None.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 2 other

**Grade Mode:** Standard Letter

**Attributes:** TAG Arts and Humanities

**MUS 45212 ORCHESTRA 1 Credit Hour**

(Slashed with MUS 55212 and MUS 75212) (Repeatable for credit) A select group of instrumentalists assembled for the purpose of studying and performing orchestral music. Open to all KSU students, regardless of major. An audition is required.

**Prerequisite:** None.

**Schedule Type:** Laboratory, Lecture, Combined Lecture and Lab

**Contact Hours:** 6 other

**Grade Mode:** Standard Letter

**Attributes:** TAG Arts and Humanities

**MUS 45221 SYMPHONY BAND 1 Credit Hour**

(Repeatable for credit) Study and performance of music literature for wind band.

**Prerequisite:** Audition.

**Schedule Type:** Studio

**Contact Hours:** 4 other

**Grade Mode:** Standard Letter

**Attributes:** TAG Arts and Humanities

**MUS 45222 MARCHING BAND 1 Credit Hour**

(Repeatable for credit) Study and performance of literature and maneuvers for marching band.

**Prerequisite:** Audition.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 6 other

**Grade Mode:** Standard Letter

**Attributes:** TAG Arts and Humanities

**MUS 45223 WIND ENSEMBLE 1 Credit Hour**

(Slashed with MUS 55223 and MUS 75223) (Repeatable for credit) A select concert ensemble that performs the finest in wind instrument literature with emphasis on major original works. Open to all KSU students, regardless of major. An audition is required.

**Prerequisite:** None.

**Schedule Type:** Laboratory, Lecture, Combined Lecture and Lab

**Contact Hours:** 4 other

**Grade Mode:** Standard Letter

**Attributes:** TAG Arts and Humanities

**MUS 45224 FLASHER BRASS 1 Credit Hour**

(Repeatable for credit) Study and performance of music for Flasher Brass.

**Prerequisite:** Audition.

**Schedule Type:** Studio

**Contact Hours:** 4 other

**Grade Mode:** Standard Letter

**MUS 45225 UNIVERSITY BAND 1 Credit Hour**

(Repeatable for credit) Study and performance of music literature for wind band appropriate for non-music majors, and for music education majors performing on secondary instruments.

**Prerequisite:** None.

**Schedule Type:** Laboratory

**Contact Hours:** 1 lab

**Grade Mode:** Standard Letter

**Attributes:** TAG Arts and Humanities

**MUS 45231 JAZZ ENSEMBLE 1 Credit Hour**

(Repeatable for credit) Study and performance of music literature in the jazz idiom.

**Prerequisite:** Audition.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 7.5 other

**Grade Mode:** Standard Letter

**MUS 45241 TROMBONE ENSEMBLE 1 Credit Hour**

(Repeatable for credit) A thorough study of trombone performance in various sized ensembles. Emphasis on original literature from over four centuries.

**Prerequisite:** Audition.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 2 other

**Grade Mode:** Standard Letter

**MUS 45251 PERCUSSION ENSEMBLE 1 Credit Hour**

(Repeatable for credit) A comprehensive study of percussion performance in various-sized ensembles. Use of keyboard percussion instruments along with drums and accessories. Study of percussion ensemble literature.

**Prerequisite:** Audition.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 5 other

**Grade Mode:** Standard Letter

**MUS 45261 BASSOON ENSEMBLE 1 Credit Hour**

(Repeatable for credit) Study and performance of music for multiple bassoons; emphasis upon refined ensemble playing interpretation leadership skills and arranging techniques.

**Prerequisite:** Permission audition.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 2 other

**Grade Mode:** Standard Letter

**MUS 45271 NEW MUSIC ENSEMBLE 1 Credit Hour**

(Repeatable for credit) Study and performance of 20th- and 21st-century chamber music with an emphasis on works by contemporary composers.

**Prerequisite:** Permission.

**Schedule Type:** Studio

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**MUS 45281 FLUTE ENSEMBLE 1 Credit Hour**

(Repeatable for credit) Study and performance of music for multiple flutes; emphasis upon all aspects of ensemble playing and style considerations will be addressed in both chamber and conducted formats.

**Prerequisite:** Permission audition.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 2 other

**Grade Mode:** Standard Letter

**MUS 45311 CHAMBER MUSIC 1,2 Credit Hour**

(Repeatable for credit) The study and performance of music for small ensembles. Music minors and other non-music majors may take this course with permission.

**Prerequisite:** Music major or music education major.

**Schedule Type:** Studio

**Contact Hours:** 2-4 other

**Grade Mode:** Standard Letter

**MUS 45312 JAZZ COMBO DEVELOPMENT 1 Credit Hour**

(Repeatable for a total of 8 credit hours) The study of Jazz combo performance through rehearsal.

**Prerequisite:** Special approval.

**Schedule Type:** Laboratory

**Contact Hours:** 1 lab

**Grade Mode:** Standard Letter

**MUS 45313 NOVA JAZZ SINGERS 1 Credit Hour**

(Repeatable for credit) The Kent State Nova Jazz Singers is a select vocal jazz ensemble. Repertoire consists of arrangements of American popular music from the 1930s to today, covering all contemporary styles. Nova Jazz Singers is open to all Kent State students by audition.

**Prerequisite:** Special approval.

**Schedule Type:** Studio

**Contact Hours:** 2 other

**Grade Mode:** Standard Letter

**MUS 45321 ACCOMPANYING 1,2 Credit Hour**

(Repeatable for credit) Accompanying instrumental and vocal soloists; piano ensemble works. Credit counted toward ensemble requirements. One hour credit for two hours of assigned accompanying weekly.

**Prerequisite:** Permission.

**Schedule Type:** Private Lesson, Studio

**Contact Hours:** 1-2 other

**Grade Mode:** Standard Letter

**MUS 46111 APPLIED MUSIC-PIANO 2,4 Credit Hours**

(Repeatable for credit) A comprehensive study of performance, technique and repertoire appropriate to music majors and minors. Individual study. Students must audition to be accepted into this course.

**Prerequisite:** Music or music education major.

**Schedule Type:** Private Lesson, Studio

**Contact Hours:** 1.5-2 other

**Grade Mode:** Standard Letter

**MUS 46311 APPLIED MUSIC-VOICE 2,4 Credit Hours**

(Repeatable for credit) A comprehensive study of performance, technique and repertoire appropriate to music majors and minors. Individual study. Students must audition to be accepted into this course.

**Prerequisite:** Music or music education major.

**Schedule Type:** Private Lesson, Studio

**Contact Hours:** 1 other

**Grade Mode:** Standard Letter

**MUS 46411 APPLIED MUSIC-VIOLIN 2,4 Credit Hours**

(Repeatable for credit) A comprehensive study of performance, technique and repertoire appropriate to music majors and minors. Individual study. Students must audition to be accepted into this course.

**Prerequisite:** Music or music education major.

**Schedule Type:** Private Lesson, Studio

**Contact Hours:** 1 other

**Grade Mode:** Standard Letter

**MUS 46412 APPLIED MUSIC-VIOLA 2,4 Credit Hours**

(Repeatable for credit) A comprehensive study of performance, technique and repertoire appropriate to music majors and minors. Individual study. Students must audition to be accepted into this course.

**Prerequisite:** Music or music education major.

**Schedule Type:** Private Lesson, Studio

**Contact Hours:** 1 other

**Grade Mode:** Standard Letter

**MUS 46413 APPLIED MUSIC-CELLO 2,4 Credit Hours**

(Repeatable for credit) A comprehensive study of performance, technique and repertoire appropriate to music majors and minors. Individual study. Students must audition to be accepted into this course.

**Prerequisite:** Music or music education major.

**Schedule Type:** Private Lesson, Studio

**Contact Hours:** 1 other

**Grade Mode:** Standard Letter

**MUS 46414 APPLIED MUSIC-DOUBLE BASS 2,4 Credit Hours**

(Repeatable for credit) A comprehensive study of performance, technique and repertoire appropriate to music majors and minors. Individual study. Students must audition to be accepted into this course.

**Prerequisite:** Music or music education major.

**Schedule Type:** Private Lesson, Studio

**Contact Hours:** 1 other

**Grade Mode:** Standard Letter

**MUS 46511 APPLIED MUSIC-FLUTE 2,4 Credit Hours**

(Repeatable for credit) A comprehensive study of performance, technique and repertoire appropriate to music majors and minors. Individual study. Students must audition to be accepted into this course.

**Prerequisite:** Music or music education major; and special approval.

**Schedule Type:** Private Lesson, Studio

**Contact Hours:** 1 other

**Grade Mode:** Standard Letter

**MUS 46512 APPLIED MUSIC-OBOE 2,4 Credit Hours**

(Repeatable for credit) A comprehensive study of performance, technique and repertoire appropriate to music majors and minors. Individual study. Students must audition to be accepted into this course.

**Prerequisite:** Music or music education major; and special approval.

**Schedule Type:** Private Lesson, Studio

**Contact Hours:** 1 other

**Grade Mode:** Standard Letter

**MUS 46513 APPLIED MUSIC-CLARINET 2,4 Credit Hours**

(Repeatable for credit) A comprehensive study of performance, technique and repertoire appropriate to music majors and minors. Individual study. Students must audition to be accepted into this course.

**Prerequisite:** Music or music education major; and special approval.

**Schedule Type:** Private Lesson, Studio

**Contact Hours:** 1 other

**Grade Mode:** Standard Letter

**MUS 46514 APPLIED MUSIC-BASSOON 2,4 Credit Hours**

(Repeatable for credit) A comprehensive study of performance, technique and repertoire appropriate to music majors and minors. Individual study. Students must audition to be accepted into this course.

**Prerequisite:** Music or music education major; and special approval.

**Schedule Type:** Private Lesson, Studio

**Contact Hours:** 1 other

**Grade Mode:** Standard Letter

**MUS 46515 APPLIED MUSIC-SAXOPHONE 2,4 Credit Hours**

(Repeatable for credit) A comprehensive study of performance, technique and repertoire appropriate to music majors and minors. Individual study. Students must audition to be accepted into this course.

**Prerequisite:** Music or music education major; and special approval.

**Schedule Type:** Private Lesson, Studio

**Contact Hours:** 1 other

**Grade Mode:** Standard Letter

**MUS 46611 APPLIED MUSIC-TRUMPET 2,4 Credit Hours**

(Repeatable for credit) A comprehensive study of performance, technique and repertoire appropriate to music majors and minors. Individual study. Students must audition to be accepted into this course.

**Prerequisite:** Music or music education major.

**Schedule Type:** Private Lesson, Studio

**Contact Hours:** 1 other

**Grade Mode:** Standard Letter

**MUS 46612 APPLIED MUSIC-HORN 2,4 Credit Hours**

(Repeatable for credit) A comprehensive study of performance, technique and repertoire appropriate to music majors and minors. Individual study. Students must audition to be accepted into this course.

**Prerequisite:** Music or music education major.

**Schedule Type:** Private Lesson, Studio

**Contact Hours:** 1 other

**Grade Mode:** Standard Letter

**MUS 46613 APPLIED MUSIC-TROMBONE 2,4 Credit Hours**

(Repeatable for credit) A comprehensive study of performance, technique and repertoire appropriate to music majors and minors. Individual study. Students must audition to be accepted into this course.

**Prerequisite:** Music or music education major.

**Schedule Type:** Private Lesson, Studio

**Contact Hours:** 1 other

**Grade Mode:** Standard Letter

**MUS 46614 APPLIED MUSIC-EUPHONIUM 2,4 Credit Hours**

(Repeatable for credit) A comprehensive study of performance, technique and repertoire appropriate to music majors and minors. Individual study. Students must audition to be accepted into this course.

**Prerequisite:** Music or music education major.

**Schedule Type:** Private Lesson, Studio

**Contact Hours:** 1 other

**Grade Mode:** Standard Letter

**MUS 46615 APPLIED MUSIC-TUBA 2,4 Credit Hours**

(Repeatable for credit) A comprehensive study of performance, technique and repertoire appropriate to music majors and minors. Individual study. Students must audition to be accepted into this course.

**Prerequisite:** Music or music education major.

**Schedule Type:** Private Lesson, Studio

**Contact Hours:** 1 other

**Grade Mode:** Standard Letter

**MUS 46711 APPLIED MUSIC-PERCUSSION 2,4 Credit Hours**

(Repeatable for credit) A comprehensive study of performance, technique and repertoire appropriate to music majors and minors. Individual study. Students must audition to be accepted into this course.

**Prerequisite:** Music or music education major.

**Schedule Type:** Private Lesson, Studio

**Contact Hours:** 1 other

**Grade Mode:** Standard Letter

**MUS 46912 APPLIED MUSIC-GUITAR 2,4 Credit Hours**

(Repeatable for credit) A comprehensive study of performance, technique and repertoire appropriate to music majors and minors. Individual study. Students must audition to be accepted into this course.

**Prerequisite:** Music or music education major.

**Schedule Type:** Private Lesson, Studio

**Contact Hours:** 1 other

**Grade Mode:** Standard Letter

**MUS 47012 CLASS GUITAR I 2 Credit Hours**

Development of basic guitar performance skills.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**MUS 47013 CLASS GUITAR II 2 Credit Hours**

Continued development of acoustic guitar performance skills, study of performance related theory and related topics.

**Prerequisite:** MUS 47012.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**MUS 47311 VOICE CLASS FOR THE INSTRUMENTALIST 1 Credit Hour**

Class instruction in the fundamentals of correct breathing, tone production and diction.

**Prerequisite:** Music or music education major.

**Schedule Type:** Studio

**Contact Hours:** 2 other

**Grade Mode:** Standard Letter

**MUS 47312 VOICE CLASS FOR NON-MUSIC STUDENTS 1 Credit Hour**

Class instruction in the fundamentals of correct breathing, tone production and diction.

**Prerequisite:** None.

**Schedule Type:** Studio

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**MUS 47412 STRING CLASS 1 Credit Hour**

A discussion and practice of basic principles of classroom string playing, instrumental pedagogy, and group process as applied to public school music settings. This course is devoted to string teaching and learning in pre-service music education training.

**Prerequisite:** Music or music education major.

**Schedule Type:** Laboratory

**Contact Hours:** 3 lab

**Grade Mode:** Standard Letter

**MUS 47512 WIND TECHNIQUES - FRENCH HORN AND DOUBLE REEDS 1 Credit Hour**

The study of the fundamental principles of playing and teaching French horn, oboe, and bassoon. Content includes performance skill development, and a survey of materials and method books suitable for class and private instruction. The overall objective is to develop an elementary skill level of performance on the instruments and the pedagogical knowledge necessary to teach the instruments in elementary through secondary levels.

**Prerequisite:** Music or music education major.

**Schedule Type:** Laboratory

**Contact Hours:** 3 lab

**Grade Mode:** Standard Letter

**MUS 47513 WIND TECHNIQUES - FLUTE, CLARINET, SAXOPHONE 1 Credit Hour**

The study of the fundamental principles of playing and teaching flute, clarinet, and saxophone. Content includes performance skill development, and a survey of materials and method books suitable for class and private instruction. The overall objective is to develop an elementary skill level of performance on the instruments and the pedagogical knowledge necessary to teach the instruments in elementary through secondary levels.

**Prerequisite:** Music or music education.

**Schedule Type:** Laboratory

**Contact Hours:** 3 lab

**Grade Mode:** Standard Letter

**MUS 47612 WIND TECHNIQUES - TRUMPET AND LOW BRASS 1 Credit Hour**

The study of the fundamental principles of playing trumpet, trombone, tuba, and euphonium. Content includes performance skill development, and a survey of materials and method books suitable for class and private instruction. The overall objective is to develop an elementary skill level of performance on the instruments and the pedagogical knowledge necessary to teach the instruments in elementary through secondary school levels.

**Prerequisite:** Music or music education major.

**Schedule Type:** Laboratory

**Contact Hours:** 3 lab

**Grade Mode:** Standard Letter

**MUS 47712 PERCUSSION CLASS 1 Credit Hour**

Study of various percussion instruments (mallets, snare drum, timpani and auxiliary) and techniques of performance. Designed for music educator with no previous percussion experience.

**Prerequisite:** Music or music education major.

**Schedule Type:** Laboratory

**Contact Hours:** 3 lab

**Grade Mode:** Standard Letter

**MUS 47811 INSTRUMENT CLASS FOR THE CHORAL/GENERAL MUSIC EDUCATOR 1 Credit Hour**

Class instruction in the basic playing skills of band and orchestral instruments intended to provide familiarity with the common school instruments for the choral-general music major. Ten (10) hours of field experience required.

**Prerequisite:** Music or music education major.

**Schedule Type:** Laboratory

**Contact Hours:** 2 lab

**Grade Mode:** Standard Letter

**MUS 48221 ELEMENTS OF ACCOMPANYING I 2 Credit Hours**

Techniques of accompanying; selected overview of art song literature including Italian, German, French and English songs development of playing at sight skills.

**Prerequisite:** Special approval.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**MUS 48222 ELEMENTS OF ACCOMPANYING II 2 Credit Hours**

Continuation of accompanying techniques including opera accompanying, orchestral reductions and selected overview of literature for solo instrument and piano; continuation of playing-at-sight skills.

**Prerequisite:** MUS 48221 with a minimum C grade.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**MUS 48231 INSTRUMENTAL PEDAGOGY FOR THE CHORAL GENERAL MUSIC EDUCATOR 2 Credit Hours**

Knowledge and techniques for building and maintaining an instrumental music program within the K-12 school setting for the choral general music education major. Ten (10) hours of field experience required.

**Prerequisite:** MUS 47811 with a minimum C grade; and music education major.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**MUS 48232 GENERAL MUSIC PEDAGOGY FOR THE INSTRUMENTALIST 1 Credit Hour**

General music pedagogy techniques for the instrumental music education major. Clinical experiences in the teaching of general music. Ten (10) field hours required.

**Prerequisite:** MUS 37114 with a minimum C grade; and music education major.

**Schedule Type:** Laboratory

**Contact Hours:** 2 lab

**Grade Mode:** Standard Letter

**MUS 48233 CHORAL MUSIC PEDAGOGY FOR THE INSTRUMENTALIST 1 Credit Hour**

Choral pedagogy techniques and choral program development for the instrumental music education major. Clinical experiences in the teaching of choral music. Ten (10) field hours required.

**Prerequisite:** MUS 47311 with a minimum C grade; and music education major.

**Schedule Type:** Laboratory

**Contact Hours:** 2 lab

**Grade Mode:** Standard Letter

**MUS 48241 VOICE PEDAGOGY 2 Credit Hours**

Survey of techniques, practices and materials of teaching voice.

**Prerequisite:** Permission.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**MUS 48251 PEDAGOGY OF MUSIC THEORY 2 Credit Hours**

The principles and techniques of teaching music theory.

**Prerequisite:** MUS 21112 with a minimum C grade; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**MUS 48257 PEDAGOGY-INSTRUMENTAL 2 Credit Hours**

Principles and techniques of instruction. Literature survey. Analysis of instrumental problems and performance practice. Offered as needed for strings woodwinds brass percussion organ, or guitar.

**Prerequisite:** Permission.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**MUS 48311 PIANO PEDAGOGY I 2 Credit Hours**

Individual and group piano teaching including teaching methods and the history of piano pedagogy.

**Prerequisite:** Music or music education major; and junior standing.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**MUS 48312 PIANO PEDAGOGY II 2 Credit Hours**

Individual and group piano teaching. Building an independent studio and career networking.

**Prerequisite:** MUS 48311 with a minimum C grade; and music major.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter



**MUS 48393 VARIABLE TITLE WORKSHOP IN MUSIC 1-4 Credit Hours**

(Repeatable for credit) Offered for specific professional needs. Emphasis on performance and pedagogical skills.

**Prerequisite:** Permission.

**Schedule Type:** Workshop

**Contact Hours:** 1-4 other

**Grade Mode:** Satisfactory/Unsatisfactory

**MUS 48512 IMPROVISATION 1 Credit Hour**

The development of musical improvisation skills not tied to any particular music style. Students will perform on their own applied instrument(s).

**Prerequisite:** MUS 21111 with a minimum C grade.

**Schedule Type:** Laboratory

**Contact Hours:** 2 lab

**Grade Mode:** Standard Letter

**MUS 48598 MUSIC RESEARCH (ELR) 2,3 Credit Hours**

(Repeated registration permitted) Research or individual investigation for undergraduate students.

**Prerequisite:** Permission.

**Schedule Type:** Research

**Contact Hours:** 2-3 other

**Grade Mode:** Standard Letter-IP

**Attributes:** Experiential Learning Requirement

**MUS 49525 SEMINAR FOR STUDENT TEACHING (ELR) 3 Credit Hours**

(Slashed with MUS 59525) A capstone discussion of principles of music teaching and pragmatic understanding of school music settings. Seminar serves as the companion course to Student Teaching for the purpose of self-observation, reflection, and analysis. Development of edTPA and portfolio.

**Prerequisite:** Music education major; and senior standing; and special approval.

**Corequisite:** MUS 42357.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Experiential Learning Requirement

**MUS 50295 SPECIAL TOPICS IN MUSIC 1-3 Credit Hours**

(Repeatable for credit) Academic study in areas not offered adequately in the music curriculum. Topic areas are of special interest to the faculty member.

**Prerequisite:** Music major; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 1-3 lecture

**Grade Mode:** Standard Letter

**MUS 50296 INDEPENDENT STUDY: MUSIC 1-3 Credit Hours**

(Repeatable for credit) Individual investigation in music topics not offered as either regular coursework or beyond the scope of existing music major courses.

**Prerequisite:** Music major; and graduate standing; and special approval.

**Schedule Type:** Individual Investigation

**Contact Hours:** 1-3 other

**Grade Mode:** Satisfactory/Unsatisfactory

**MUS 51131 KEYBOARD HARMONY 3 Credit Hours**

Theoretical skills demonstrated at the keyboard. Harmonization of melodies in homophonic style, realization of figured bass, score reading, modulation and improvisation.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MUS 51141 16TH-CENTURY COUNTERPOINT 3 Credit Hours**

Two-, three- and four-part vocal counterpoint in 16th century style.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MUS 51151 18TH-CENTURY COUNTERPOINT 3 Credit Hours**

Technique of writing counterpoint in 18th-century style especially that of J. S. Bach.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MUS 51211 COMPOSITION 2 Credit Hours**

(Repeatable for credit) Study of the materials and techniques of composition culminating in original compositions based upon observable principles of unity and variety.

**Prerequisite:** Graduate standing.

**Schedule Type:** Private Lesson, Studio

**Contact Hours:** 2 other

**Grade Mode:** Standard Letter

**MUS 51321 ORCHESTRATION 3 Credit Hours**

Ranges, tonal possibilities, technical limitations and transpositions for all orchestral instruments. Scoring techniques and analysis of representative instrumental ensemble repertoire.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MUS 51341 JAZZ IMPROVISATION 1 Credit Hour**

The development of the art of jazz improvisation through performance and analysis.

**Prerequisite:** Graduate standing.

**Schedule Type:** Laboratory

**Contact Hours:** 2 lab

**Grade Mode:** Standard Letter

**MUS 51342 JAZZ ARRANGING 2 Credit Hours**

Arranging for the large and small jazz ensemble.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MUS 52111 AFRICAN MUSIC AND CULTURES 3 Credit Hours**

African music as related to social sciences and humanities. Oral traditions. Use of music recordings, tapes, musical instruments. Participation in performance and group work involvement.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MUS 52131 AMERICA'S MUSIC 3 Credit Hours**

Historical survey of music in America from New England psalmody to present-day compositional trends.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MUS 52141 FOLK MUSIC OF EUROPE AND NORTH AMERICA 3 Credit Hours**

(Slashed with MUS 42141) Study of selected music cultures of Eastern and Western Europe, and South, Central and North America.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MUS 52151 ASIAN MUSICS 3 Credit Hours**

Survey of Asian musics. Emphasis on art, folk and popular musics and relationships of these musics to their respective cultures.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MUS 52161 HISTORY OF JAZZ 3 Credit Hours**

The evolution of jazz from its origins to the present.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MUS 52171 MUSIC FROM WORLD CULTURES 3 Credit Hours**

Study of selected art, folk and popular music from world cultures with emphasis on listening skills, cultural context, function, organology and technical matters of style.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MUS 52181 POPULAR WORLD MUSIC 3 Credit Hours**

A survey of popular world music genres from North America, the Caribbean, South America, Europe, Africa, and Asia. Emphasis is on recognizing music literature, prominent artists and music styles, as well as related cultural events. Graduate level introduces cultural theory related to popular studies. Modern media, especially the Internet, is an integral component of the course.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MUS 52221 SYMPHONIC LITERATURE 3 Credit Hours**

Historical and stylistic survey of music for large instrumental ensemble.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MUS 52241 PIANO LITERATURE I 2 Credit Hours**

Survey of keyboard and piano suites, sonatas and concerti from the 16th century to the present. Emphasis on performing, listening and analysis.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**MUS 52242 PIANO LITERATURE II 2 Credit Hours**

Survey of character pieces and variations from the 16th century to the present. Emphasis on performing, listening and analysis.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**MUS 52251 SONG LITERATURE 3 Credit Hours**

A study of vocal literature from the 16th century to the present. Emphasis upon the style, interpretation and presentation of solo materials for all voice classifications.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MUS 52261 OPERA LITERATURE 3 Credit Hours**

The historical development of opera from the 17th century to the present. Detailed analysis of representative works.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MUS 52271 CHORAL LITERATURE I 3 Credit Hours**

(Slashed with MUS 42271) Study of Western European choral literature from approximately 1450 to early 19th century (Renaissance, Baroque and Classical periods).

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MUS 52272 CHORAL LITERATURE II 3 Credit Hours**

(Slashed with MUS 42272) Continuation of Choral Literature I. A study of Western European and North American choral music of the early 19th century to the present (roughly 1830 to present).

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MUS 52357 STUDENT TEACHING 9 Credit Hours**

Provides a 16-week student teaching experience. Off-campus arrangements are handled by the College of Education, Health and Human Services and the School of Music and Official valid certification of Child Safety Training, approved Basic Life Support and ALICE. Training must be presented to the campus office of clinical experience as prerequisite for student teaching.

**Prerequisite:** Graduate standing; and special approval.

**Corequisite:** MUS 59525.

**Schedule Type:** Practical Experience

**Contact Hours:** 35 other

**Grade Mode:** Standard Letter

**MUS 53241 MARCHING BAND TECHNIQUES AND LITERATURE 1 Credit Hour**

Organization, administration and techniques of marching bands in the schools. Topics covered include musical styles, literature and show design.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 1 lecture, 1 lab

**Grade Mode:** Standard Letter

**MUS 53242 JAZZ ENSEMBLE TECHNIQUES 2 Credit Hours**

Study of the curriculum for the jazz ensemble, including organizational and administrative procedures. Emphasis on music interpretation, jazz styles and rehearsal techniques taught through laboratory experience.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**MUS 53243 CONTEMPORARY CHORAL METHODS IN THE SCHOOLS 3 Credit Hours**

(Slashed with MUS 43243) Basic techniques and materials for teaching vocal jazz and musical theatre in the schools. Administration, organization and publicity for productions as well as literature for these performing groups will be explored.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MUS 53245 JAZZ ENSEMBLE TECHNIQUES AND LITERATURE 1 Credit Hour**

(Slashed with MUS 43245) Study of the curriculum for the jazz ensemble, including organizational and administrative procedures. Emphasis on music interpretation, jazz styles, and rehearsal techniques taught through laboratory experience. One hour of field observation is required.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Laboratory

**Contact Hours:** 3 lab

**Grade Mode:** Standard Letter

**MUS 53264 METHODS IN ROCK BAND PERFORMANCE AND PEDAGOGY 3 Credit Hours**

(Slashed with MUS 43264) In this course, students will participate in small rock ensembles and will examine the pedagogy of that type of ensemble. Lectures and demonstrations will include topics such as equipment selection, repertoire selection, and performance techniques. An additional emphasis of this course will be techniques for amplifying rock ensembles. Students will also learn fundamental techniques for recording rock ensembles.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MUS 53265 METHODS IN JAZZ PERFORMANCE AND PEDAGOGY 3 Credit Hours**

(Slashed with MUS 43265) In this course, students will participate in immersive experiences in various aspects of vocal and instrumental jazz: solo performing, ensemble rehearsal techniques, repertoire selection and sources, jazz theory, improvisation, working with a rhythm section, and sound reinforcement. Students will also participate in a workshop ensemble to experience the art form as a member of a jazz ensemble.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MUS 55121 KENT CHORUS 1 Credit Hour**

(Repeatable for credit) Study and performance of choral music from Renaissance through contemporary styles, large and small forms with appropriate accompaniment.

**Prerequisite:** Graduate standing.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 2.5 other

**Grade Mode:** Standard Letter

**MUS 55131 OPERA:SINGER-ACTOR TECHNIQUES 1 Credit Hour**

(Repeatable for credit) A course designed to give the young singing actor practical operatic experience in the performance of portions of or complete operas.

**Prerequisite:** Graduate standing.

**Schedule Type:** Studio

**Contact Hours:** 9.5 other

**Grade Mode:** Standard Letter

**MUS 55141 KENT STATE UNIVERSITY CHORALE 1 Credit Hour**

(Repeatable for credit) Study and performance of literature for vocal chamber ensemble from medieval through contemporary styles sung in the original language with appropriate accompaniment. An audition is required before registering for this course.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 4.5 other

**Grade Mode:** Standard Letter

**MUS 55142 CORO CANTARE 1 Credit Hour**

(Repeatable for credit) (Slashed with MUS 54142) A chorus of tenor, baritone and bass voices. Open to all students regardless of gender identity. Emphasis on music literacy, vocal production instruction, study and performance of music written for tenor, baritone and bass voices. The group performs choral literature spanning many centuries and reflecting diverse cultures. Experience with mixed-voice choirs also occurs. Audition required.

**Prerequisite:** Graduate standing.

**Schedule Type:** Laboratory

**Contact Hours:** 3 lab

**Grade Mode:** Standard Letter

**MUS 55143 CANTIQUE 1 Credit Hour**

(Repeatable for credit) (Slashed with MUS 45143) A chorus of soprano and alto voices. Open to all students regardless of gender identity. Emphasis on music literacy, vocal production instruction, study and performance of music written for soprano and alto voices. The group performs choral literature spanning many centuries and reflecting diverse cultures. Experience with mixed-voice choirs also occurs. Audition required.

**Prerequisite:** Graduate standing.

**Schedule Type:** Laboratory

**Contact Hours:** 3 lab

**Grade Mode:** Standard Letter

**MUS 55151 KENT STATE UNIVERSITY GOSPEL CHOIR 1 Credit Hour**

(Repeatable for credit) Study and performance of choral music in the gospel tradition, including works by contemporary artists. One weekly rehearsal and a minimum of one concert per semester. Off-campus concerts are possible.

**Prerequisite:** Graduate standing.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 2 other

**Grade Mode:** Standard Letter

**MUS 55212 ORCHESTRA 1 Credit Hour**

(Slashed with MUS 45212 and MUS 75212) (Repeatable for credit) A select group of instrumentalists assembled for the purpose of studying and performing orchestral music. Open to all KSU students, regardless of major. An audition is required.

**Prerequisite:** Graduate standing.

**Schedule Type:** Laboratory, Lecture, Combined Lecture and Lab

**Contact Hours:** 6 other

**Grade Mode:** Standard Letter

**MUS 55221 SYMPHONY BAND 1 Credit Hour**

(Repeatable for credit) Study and performance of music literature for wind band.

**Prerequisite:** Graduate standing.

**Schedule Type:** Studio

**Contact Hours:** 4 other

**Grade Mode:** Standard Letter

**MUS 55222 MARCHING BAND 1 Credit Hour**

(Repeatable for a maximum of 6 credit hours) Study and performance of literature and maneuvers for marching band.

**Prerequisite:** Graduate standing.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 6 other

**Grade Mode:** Standard Letter

**MUS 55223 WIND ENSEMBLE 1 Credit Hour**

(Slashed with MUS 45223 and MUS 75223) (Repeatable for credit) A select concert ensemble that performs the finest in wind instrument literature with emphasis on major original works. An audition is required before registering for this course.

**Prerequisite:** Graduate standing.

**Schedule Type:** Laboratory, Lecture, Combined Lecture and Lab

**Contact Hours:** 4 other

**Grade Mode:** Standard Letter

**MUS 55231 JAZZ ENSEMBLE 1 Credit Hour**

(Repeatable for credit) Study and performance of music literature in the jazz idiom.

**Prerequisite:** Graduate standing.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 7.5 other

**Grade Mode:** Standard Letter

**MUS 55241 TROMBONE ENSEMBLE 1 Credit Hour**

(Repeatable for credit) A thorough study of trombone performance in various size ensembles. Emphasis on original literature from over four centuries.

**Prerequisite:** Graduate standing.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 2 other

**Grade Mode:** Standard Letter

**MUS 55251 PERCUSSION ENSEMBLE 1 Credit Hour**

(Repeatable for credit) A comprehensive study of percussion performance in various size ensembles. Use of keyboard percussion instruments along with drums and accessories. Study of percussion ensemble literature.

**Prerequisite:** Graduate standing.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 5 other

**Grade Mode:** Standard Letter

**MUS 55261 BASSOON ENSEMBLE 1 Credit Hour**

(Repeatable for credit) Study and performance of music for multiple bassoons; emphasis upon refined ensemble playing, interpretation, leadership skills and arranging techniques.

**Prerequisite:** Graduate standing.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 2 other

**Grade Mode:** Standard Letter

**MUS 55271 NEW MUSIC ENSEMBLE 1 Credit Hour**

(Repeatable for credit) Study and performance of 20th- and 21st-century chamber music with an emphasis on works by contemporary composers.

**Prerequisite:** Graduate standing.

**Schedule Type:** Studio

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**MUS 55281 FLUTE ENSEMBLE 1 Credit Hour**

(Repeatable for credit) Study and performance of music for multiple flutes; emphasis upon all aspects of ensemble playing and style considerations will be addressed in both chamber and conducted formats.

**Prerequisite:** Graduate standing.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 2 other

**Grade Mode:** Standard Letter

**MUS 55311 CHAMBER MUSIC 1,2 Credit Hour**

(Repeatable for credit) The study and performance of music for small ensembles.

**Prerequisite:** Graduate standing.

**Schedule Type:** Studio

**Contact Hours:** 2-4 other

**Grade Mode:** Standard Letter

**MUS 55312 WORLD MUSIC ENSEMBLE 1 Credit Hour**

(Course is repeatable for a maximum of 8 credit hours) The World Music Ensemble teaches performance and cultural etiquette associated with traditional and popular world music genres, e.g., African drumming. Specific traditions studied include areas of specialization of instructors and or advanced student participants.

**Prerequisite:** Graduate standing.

**Schedule Type:** Studio

**Contact Hours:** 2 other

**Grade Mode:** Standard Letter

**MUS 55321 ACCOMPANYING 1,2 Credit Hour**

(Repeatable for credit) Accompanying instrumental and vocal soloists; piano ensemble works. Credit counted toward ensemble requirements. One hour credit for two hours of assigned accompanying weekly.

**Prerequisite:** Graduate standing.

**Schedule Type:** Private Lesson, Studio

**Contact Hours:** 1-2 other

**Grade Mode:** Standard Letter

**MUS 58241 VOICE PEDAGOGY 2 Credit Hours**

Survey of techniques, practices and materials of teaching voice.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**MUS 58251 PEDAGOGY OF MUSIC THEORY 2 Credit Hours**

(Slashed with MUS 78251) The principles and techniques of teaching music theory.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**MUS 58257 PEDAGOGY-INSTRUMENTAL 2 Credit Hours**

Principles and techniques of instruction. Literature survey. Analysis of instrumental problems and performance practice. Offered as needed for strings, woodwinds, brass, percussion, organ or guitar.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**MUS 58393 VARIABLE TITLE WORKSHOP IN MUSIC 1-4 Credit Hours**

(Repeatable for credit) Offered for specific professional needs. Emphasis on performance and pedagogical skills.

**Prerequisite:** Graduate standing.

**Schedule Type:** Workshop

**Contact Hours:** 1-4 other

**Grade Mode:** Satisfactory/Unsatisfactory

**MUS 58611 ADVANCED SINGER'S DICTION I 1 Credit Hour**

Advanced training and performance practice in phonetics and singing diction for English and Italian vocal repertoire. Emphasis on learning and application of International Phonetic Alphabet symbols.

**Prerequisite:** Graduate standing.

**Schedule Type:** Laboratory

**Contact Hours:** 2 lab

**Grade Mode:** Standard Letter

**MUS 58612 ADVANCED SINGER'S DICTION II 1 Credit Hour**

Advanced training and performance practice in phonetics and singing diction for German and French vocal repertoire. Emphasis on learning and application of International Phonetic Alphabet symbols.

**Prerequisite:** Graduate standing.

**Schedule Type:** Laboratory

**Contact Hours:** 2 lab

**Grade Mode:** Standard Letter

**MUS 59525 SEMINAR FOR STUDENT TEACHING 3 Credit Hours**

(Slashed with MUS 49525) A capstone discussion of principles of music teaching and pragmatic understanding of school music settings. Seminar serves as the companion course to Student Teaching for the purpose of self-observation, reflection, and analysis. Development of edTPA and portfolio.

**Prerequisite:** Graduate standing; and special approval.

**Corequisite:** MUS 52357.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MUS 61121 HISTORY OF MUSIC THEORY 3 Credit Hours**

(Slashed with MUS 71121) A study of the history of Western music theory from the ancient Greeks to the twentieth century.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MUS 61131 SCHENKERIAN ANALYSIS 3 Credit Hours**

An introduction to musical analysis according to the principles expounded by Heinrich Schenker and later exponents of his ideas.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MUS 61170 MUSIC ANALYSIS 3 Credit Hours**

Selected analytical techniques applied to music from the tonal and post-tonal repertoire. Emphasis on the development of harmonic language and overall formal structures.

**Prerequisite:** Music education major; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MUS 61171 ANALYTICAL TECHNIQUES I 2 Credit Hours**

The application of standard analytical techniques to works of various style periods.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MUS 61172 ANALYTICAL TECHNIQUES II 2 Credit Hours**

The application of standard analytical techniques to works of various style periods.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter



**MUS 61173 WORLD MUSIC ANALYSIS 2 Credit Hours**

Analysis of world music traditions. Analyze and articulate knowledge regarding musical elements, such as timbre, tuning, improvisation, sound patterns, compositional form, and performance techniques of music genres studied. Development of listening and transcription skills as they relate to world music.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture, 3 lab

**Grade Mode:** Standard Letter

**MUS 61181 POST-TONAL THEORY 3 Credit Hours**

A study of the analysis, theories, and compositional strategies applied to the music composed after 1900.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MUS 61191 SEMINAR IN MUSIC SINCE 1900 3 Credit Hours**

(Slashed with MUS 71191) (Repeatable for a maximum of 6 credit hours) Study of analytical techniques and procedures appropriate for the major musical styles of the period. Study of representative compositions through applied analysis. Individual projects in areas of particular interest to the student.

**Prerequisite:** Graduate standing.

**Schedule Type:** Seminar

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**MUS 61211 COMPOSITION 2,4 Credit Hours**

(Repeatable for credit) Original composition using longer forms of music for diverse media including multimedia and electronic composition.

**Prerequisite:** Graduate standing.

**Schedule Type:** Private Lesson, Studio

**Contact Hours:** 1 other

**Grade Mode:** Standard Letter

**MUS 61331 BAND ARRANGING 2 Credit Hours**

Arranging in traditional and contemporary styles for the wind ensemble, concert band and/or marching band.

**Prerequisite:** MUS 51331; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MUS 62227 HISTORY AND LITERATURE OF THE WIND BAND 2 Credit Hours**

Historical survey of wind band literature and the development of the ensemble.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**MUS 62281 SEMINAR IN MUSIC HISTORY AND LITERATURE 3 Credit Hours**

(Repeatable for credit) Selected problems of research in music history and literature. Each student will be responsible for presenting papers for discussion.

**Prerequisite:** Graduate standing.

**Schedule Type:** Seminar

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**MUS 62411 MUSIC BIBLIOGRAPHY AND RESEARCH METHODS 2 Credit Hours**

Study of techniques of music research and creative musical writing including special projects, reports and readings. This course is a hybrid course consisting of both in-class meetings and discussions, as well as online interaction and discussion boards.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**MUS 62412 INTRODUCTION TO ETHNOMUSICOLOGY 3 Credit Hours**

A study of the history, concepts and methods of ethnomusicology, techniques of field research, transcription, analysis and bibliography.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MUS 62413 ADVANCED FIELD AND LAB METHODS IN ETHNOMUSICOLOGY 3 Credit Hours**

Development of professional level research skills in all media of field documentation, transcription, analysis and scholarly writing. Study of current related issues in ethnomusicology.

**Prerequisite:** MUS 62412.

**Schedule Type:** Laboratory

**Contact Hours:** 3 lab

**Grade Mode:** Standard Letter

**MUS 62414 ISSUES AND TRENDS IN ETHNOMUSICOLOGY 2 Credit Hours**

This course studies various issues and trends in the field of ethnomusicology, from its inception to present. The focus centers on intensive discussion of theories, philosophies and paradigms that have dominated the scrutiny of music over the decades and their application in analysis, fieldwork and lab method.

**Prerequisite:** MUS 62412; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MUS 62451 INTRODUCTION TO MUSICOLOGY 3 Credit Hours**

Techniques of music research and creative musical writing including special projects, reports and readings.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MUS 62511 MUSIC HISTORY I 2 Credit Hours**

A study of Western music history from Jewish and medieval Roman practices through Josquin, as well as selected common-practice period applications.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MUS 62521 MUSIC HISTORY II 2 Credit Hours**

A study of Western music history from the Reformation and Counter-Reformation through Bach and Handel.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MUS 62531 MUSIC HISTORY III 2 Credit Hours**

A study of Western music history in the Rococo, Classical, and Romantic periods through Brahms and Wagner.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MUS 62541 MUSIC HISTORY IV 2 Credit Hours**

A study of Western music from Debussy and Mahler through the major trends and composers of the recent past.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MUS 62601 SEMINAR IN MUSICS OF AFRICA 3 Credit Hours**

(Slashed with MUS 72601) Specialized investigations of music cultures of Africa.

**Prerequisite:** Graduate standing.

**Schedule Type:** Seminar

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**MUS 62602 SEMINAR IN MUSICS OF THE AMERICAS 3 Credit Hours**

Specialized investigation of music cultures of the Americas.

**Prerequisite:** Graduate standing.

**Schedule Type:** Seminar

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**MUS 62603 SEMINAR IN MUSICS OF THE MIDDLE EAST 3 Credit Hours**

(Slashed with MUS 72603) Specialized investigation of music cultures of the Middle East.

**Prerequisite:** Graduate standing.

**Schedule Type:** Seminar

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**MUS 62604 SEMINAR IN MUSICS OF EAST ASIA 3 Credit Hours**

Specialized investigation of music cultures of East Asia.

**Prerequisite:** Graduate standing.

**Schedule Type:** Seminar

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**MUS 62606 SEMINAR IN MUSICS OF SOUTHEAST ASIA 3 Credit Hours**

(Slashed with MUS 72606) Specialized investigation of music cultures in Southeast Asia.

**Prerequisite:** Graduate standing.

**Schedule Type:** Seminar

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**MUS 63198 CAPSTONE PROJECT 4 Credit Hours**

(Repeatable for credit) Working under the supervision of a capstone advisor, students demonstrate synthesis of knowledge through the development of curricular project applicable to student's area of teaching.

**Prerequisite:** Graduate standing.

**Schedule Type:** Research

**Contact Hours:** 4 other

**Grade Mode:** Standard Letter-IP

**MUS 63241 INQUIRY IN MUSIC TEACHING I 3 Credit Hours**

Conducting and presenting assessment, evaluation, and research of music teaching and learning with emphasis on quantitative methodologies.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MUS 63242 INQUIRY IN MUSIC TEACHING AND LEARNING II 3 Credit Hours**

Conducting and presenting assessment, evaluation and research of music teaching and learning with emphasis on qualitative methodologies.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MUS 63261 ADVANCED STUDIES IN TEACHING CHORAL MUSIC 3 Credit Hours**

Development of teaching materials, an annotated choral repertory list and instructional strategies for choral music with emphasis on rehearsal procedures and analytical techniques.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MUS 63262 ADVANCED STUDIES IN TEACHING INSTRUMENTAL MUSIC 3 Credit Hours**

Development of teaching materials, an annotated instrumental repertory list and instructional strategies for instrumental music with emphasis on rehearsal procedures and analytical techniques.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MUS 63263 ADVANCED STUDIES IN TEACHING GENERAL MUSIC 3 Credit Hours**

Program development, inclusion, instructional materials and innovative teaching techniques for general music programs.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MUS 63272 LEARNING THEORIES IN MUSIC 3 Credit Hours**

Application of current theories of learning to the teaching and learning of music.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MUS 63273 PSYCHOLOGY OF MUSIC 3 Credit Hours**

The study of music's effect on human behavior including physiological and affective responses. Applications of music psychology to the teaching and learning of music will be explored.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MUS 63274 FOUNDATIONS OF MUSIC EDUCATION 3 Credit Hours**

Study of the field of music education from perspectives of sociology, psychology, philosophy, curriculum, history and comparative curricula.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MUS 63283 RESEARCH IN MUSIC EDUCATION 3 Credit Hours**

Introduction to research techniques in music education including topic selection, data collection analysis and interpretation, and presentation of information in written form.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MUS 63284 HISTORY OF MUSIC EDUCATION 3 Credit Hours**

Study of historical approaches to music education with emphasis on significant people, places and events that have influenced music teaching and learning music.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MUS 63285 PHILOSOPHY OF MUSIC EDUCATION 3 Credit Hours**

(Slashed with MUS 73285) Study of the philosophical foundations of music education with emphasis on the application of aesthetics to teaching and experiencing music.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MUS 63286 SOCIOLOGY OF MUSIC EDUCATION 3 Credit Hours**

Sociology in Music Education focuses on sociocultural issues in music teaching and learning. Students consider contexts of society, background, race, ethnicity, culture, diversity, and pluralism as applicable in music education situations.

**Prerequisite:** Graduate standing.

**Schedule Type:** Seminar

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MUS 64111 CONDUCTING PROJECTS:CHORAL 2,4 Credit Hours**

(Repeatable for credit) Choral conducting techniques, score analysis, rehearsal procedures and study of musical style.

**Prerequisite:** Graduate standing.

**Schedule Type:** Private Lesson

**Contact Hours:** 1 other

**Grade Mode:** Standard Letter

**MUS 64121 CONDUCTING PROJECTS:BAND 2,4 Credit Hours**

(Repeatable for credit) Band conducting techniques, score analysis rehearsal procedures and study of musical style.

**Prerequisite:** Graduate standing.

**Schedule Type:** Private Lesson

**Contact Hours:** 1 other

**Grade Mode:** Standard Letter

**MUS 64131 CONDUCTING PROJECTS:ORCHESTRA 2,4 Credit Hours**

(Repeatable for credit) Orchestra conducting techniques, score analysis, rehearsal procedures and study of musical style.

**Prerequisite:** Graduate standing.

**Schedule Type:** Private Lesson

**Contact Hours:** 1 other

**Grade Mode:** Standard Letter

**MUS 66111 APPLIED MUSIC-GRADUATE PIANO 2,4 Credit Hours**

(Repeatable for credit) A comprehensive study of performance, technique and repertoire appropriate to music majors and minors. Individual study. Students must audition to be accepted into this course.

**Prerequisite:** Music major; and graduate standing.

**Schedule Type:** Private Lesson, Studio

**Contact Hours:** 1.5-2 other

**Grade Mode:** Standard Letter

**MUS 66191 SEMINAR IN ACCOMPANYING 2 Credit Hours**

(Repeatable for credit) Studio performances of standard repertoire for piano and voice or instruments; investigation of other topics relating to the accompanying of the repertoire.

**Prerequisite:** Graduate standing.

**Schedule Type:** Seminar

**Contact Hours:** 2 other

**Grade Mode:** Standard Letter

**MUS 66311 APPLIED MUSIC-GRADUATE VOICE 2,4 Credit Hours**

(Repeatable for credit) A comprehensive study of performance, technique and repertoire appropriate to music majors and minors. Individual study. Students must audition to be accepted into this course.

**Prerequisite:** Music major; and graduate standing; and special approval.

**Schedule Type:** Private Lesson, Studio

**Contact Hours:** 1 other

**Grade Mode:** Standard Letter

**MUS 66411 APPLIED MUSIC-GRADUATE VIOLIN 2,4 Credit Hours**

(Repeatable for credit) A comprehensive study of performance, technique and repertoire appropriate to music majors and minors. Individual study. Students must audition to be accepted into this course.

**Prerequisite:** Music major; and graduate standing; and special approval.

**Schedule Type:** Private Lesson, Studio

**Contact Hours:** 1 other

**Grade Mode:** Standard Letter

**MUS 66412 APPLIED MUSIC-GRADUATE VIOLA 2,4 Credit Hours**

(Repeatable for credit) A comprehensive study of performance, technique and repertoire appropriate to music majors and minors. Individual study. Students must audition to be accepted into this course.

**Prerequisite:** Music major; and graduate standing.

**Schedule Type:** Private Lesson, Studio

**Contact Hours:** 1 other

**Grade Mode:** Standard Letter

**MUS 66413 APPLIED MUSIC-GRADUATE CELLO 2,4 Credit Hours**

(Repeatable for credit) A comprehensive study of performance, technique and repertoire appropriate to music majors and minors. Individual study. Students must audition to be accepted into this course.

**Prerequisite:** Music major; and graduate standing.

**Schedule Type:** Private Lesson, Studio

**Contact Hours:** 1 other

**Grade Mode:** Standard Letter

**MUS 66414 APPLIED MUSIC-GRADUATE DOUBLE BASS 2,4 Credit Hours**

(Repeatable for credit) A comprehensive study of performance, technique and repertoire appropriate to music majors and minors. Individual study. Students must audition to be accepted into this course.

**Prerequisite:** Music major; and graduate standing; and special approval.

**Schedule Type:** Private Lesson, Studio

**Contact Hours:** 1 other

**Grade Mode:** Standard Letter

**MUS 66511 APPLIED MUSIC-GRADUATE FLUTE 2,4 Credit Hours**

(Repeatable for credit) A comprehensive study of performance, technique and repertoire appropriate to music majors and minors. Individual study. Students must audition to be accepted into this course.

**Prerequisite:** Music major; and graduate standing.

**Schedule Type:** Private Lesson, Studio

**Contact Hours:** 1 other

**Grade Mode:** Standard Letter

**MUS 66512 APPLIED MUSIC-GRADUATE OBOE 2,4 Credit Hours**

(Repeatable for credit) A comprehensive study of performance, technique and repertoire appropriate to music majors and minors. Individual study. Students must audition to be accepted into this course.

**Prerequisite:** Music major; and graduate standing.

**Schedule Type:** Private Lesson, Studio

**Contact Hours:** 1 other

**Grade Mode:** Standard Letter

**MUS 66513 APPLIED MUSIC-GRADUATE CLARINET 2,4 Credit Hours**

(Repeatable for credit) A comprehensive study of performance, technique and repertoire appropriate to music majors and minors. Individual study. Students must audition to be accepted into this course.

**Prerequisite:** Music major; and graduate standing.

**Schedule Type:** Private Lesson, Studio

**Contact Hours:** 1 other

**Grade Mode:** Standard Letter

**MUS 66514 APPLIED MUSIC-GRADUATE BASSOON 2,4 Credit Hours**

(Repeatable for credit) A comprehensive study of performance, technique and repertoire appropriate to music majors and minors. Individual study. Students must audition to be accepted into this course.

**Prerequisite:** Music major; and graduate standing.

**Schedule Type:** Private Lesson, Studio

**Contact Hours:** 1 other

**Grade Mode:** Standard Letter

**MUS 66515 APPLIED MUSIC-GRADUATE SAXOPHONE 2,4 Credit Hours**

(Repeatable for credit) A comprehensive study of performance, technique and repertoire appropriate to music majors and minors. Individual study. Students must audition to be accepted into this course.

**Prerequisite:** Music major; and graduate standing.

**Schedule Type:** Private Lesson, Studio

**Contact Hours:** 1 other

**Grade Mode:** Standard Letter

**MUS 66611 APPLIED MUSIC-GRADUATE TRUMPET 2,4 Credit Hours**

(Repeatable for credit) A comprehensive study of performance, technique and repertoire appropriate to music majors and minors. Individual study. Students must audition to be accepted into this course.

**Prerequisite:** Music major; and graduate standing.

**Schedule Type:** Private Lesson, Studio

**Contact Hours:** 1 other

**Grade Mode:** Standard Letter

**MUS 66612 APPLIED MUSIC-GRADUATE HORN 2,4 Credit Hours**

(Repeatable for credit) A comprehensive study of performance, technique and repertoire appropriate to music majors and minors. Individual study. Students must audition to be accepted into this course.

**Prerequisite:** Music major; and graduate standing.

**Schedule Type:** Private Lesson, Studio

**Contact Hours:** 1 other

**Grade Mode:** Standard Letter

**MUS 66613 APPLIED MUSIC-GRADUATE TROMBONE 2,4 Credit Hours**

(Repeatable for credit) A comprehensive study of performance, technique and repertoire appropriate to music majors and minors. Individual study. Students must audition to be accepted into this course.

**Prerequisite:** Music major; and graduate standing.

**Schedule Type:** Private Lesson, Studio

**Contact Hours:** 1 other

**Grade Mode:** Standard Letter

**MUS 66615 APPLIED MUSIC-GRADUATE TUBA 2,4 Credit Hours**

(Repeatable for credit) A comprehensive study of performance, technique and repertoire appropriate to music majors and minors. Individual study. Students must audition to be accepted into this course.

**Prerequisite:** Music major; and graduate standing.

**Schedule Type:** Private Lesson, Studio

**Contact Hours:** 1 other

**Grade Mode:** Standard Letter

**MUS 66711 APPLIED MUSIC-GRADUATE PERCUSSION 2,4 Credit Hours**

(Repeatable for credit) A comprehensive study of performance, technique and repertoire appropriate to music majors and minors. Individual study. Students must audition to be accepted into this course.

**Prerequisite:** Music major; and graduate standing.

**Schedule Type:** Private Lesson, Studio

**Contact Hours:** 1 other

**Grade Mode:** Standard Letter

**MUS 67243 TECHNOLOGY FOR MUSIC TEACHING 3 Credit Hours**

Study of a variety of music software and hardware; students design and implement a project pertaining to their professional interest.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MUS 68199 THESIS I 2-6 Credit Hours**

Thesis students must register for a total of 6 hours, 2 to 6 hours in a single semester distributed over several semesters if desired.

**Prerequisite:** Graduate standing.

**Schedule Type:** Masters Thesis

**Contact Hours:** 2-6 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**MUS 68214 PIANO PEDAGOGY I 2 Credit Hours**

Individual and group piano teaching, including teaching methods and the history of piano pedagogy.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**MUS 68215 PIANO PEDAGOGY II 2 Credit Hours**

Individual and group piano teaching. Building an independent studio and career networking.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**MUS 68299 THESIS II 2 Credit Hours**

Thesis students must continue registration each semester until all degree requirements are met.

**Prerequisite:** MUS 68199; and graduate standing.

**Schedule Type:** Masters Thesis

**Contact Hours:** 2 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**MUS 68598 RESEARCH 1-15 Credit Hours**

(Repeatable for credit) Research or individual investigation for master's level graduate students.

**Prerequisite:** Graduate standing.

**Schedule Type:** Research

**Contact Hours:** 1-15 other

**Grade Mode:** Standard Letter-IP

**MUS 68687 RECITAL 1-3 Credit Hours**

Required of all performance majors and music education majors who choose performance option.

**Prerequisite:** Graduate standing.

**Schedule Type:** Studio

**Contact Hours:** 1-3 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**MUS 68698 ESSAY 1-3 Credit Hours**

(Repeatable for credit) Required of performance majors and music education majors who choose the recital and essay option.

**Prerequisite:** Graduate standing.

**Schedule Type:** Research

**Contact Hours:** 1-3 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**MUS 71121 HISTORY OF MUSIC THEORY 3 Credit Hours**

A study of the history of Western music theory from the ancient Greeks to the twentieth century.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MUS 71131 SCHENKERIAN ANALYSIS 3 Credit Hours**

An introduction to musical analysis according to the principles expounded by Heinrich Schenker and later exponents of his ideas.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MUS 71141 16TH-CENTURY COUNTERPOINT 3 Credit Hours**

Two-, three- and four-part vocal counterpoint in 16th century style.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MUS 71151 18TH-CENTURY COUNTERPOINT 3 Credit Hours**

Technique of writing counterpoint in 18th-century style especially that of J. S. Bach.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MUS 71171 ANALYTICAL TECHNIQUES I 2 Credit Hours**

The application of standard analytical techniques to works of various style periods.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MUS 71172 ANALYTICAL TECHNIQUES II 2 Credit Hours**

The application of standard analytical techniques to works of various style periods.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MUS 71181 POST-TONAL THEORY 3 Credit Hours**

A study of the analysis, theories, and compositional strategies applied to the music composed after 1900.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MUS 71191 SEMINAR IN MUSIC SINCE 1900 3 Credit Hours**

(Slashed with MUS 61191) (Repeatable for a maximum of 6 credit hours) Study of analytical techniques and procedures appropriate for the major musical styles of the period. Study of representative compositions through applied analysis. Individual projects in areas of particular interest to the student.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Seminar

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**MUS 71195 SPECIAL PROJECTS IN THEORETICAL STUDIES 3 Credit Hours**

(Repeatable for credit) Individual and class investigation into specific methods of analysis and their application to music in various styles.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MUS 71331 BAND ARRANGING 2 Credit Hours**

Arranging in traditional and contemporary styles for the wind ensemble, concert band and/or marching band.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter



**MUS 72281 SEMINAR IN MUSIC HISTORY AND LITERATURE 3****Credit Hours**

(Repeatable for credit) Selected problems of research in music history and literature. Each student will be responsible for presenting papers for discussion.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Seminar

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**MUS 72412 INTRODUCTION TO ETHNOMUSICOLOGY 3 Credit Hours**

A study of the history, concepts and methods of ethnomusicology, techniques of field research, transcription analysis and bibliography.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MUS 72413 ADVANCED FIELD AND LAB METHODS IN ETHNOMUSICOLOGY 3 Credit Hours**

Development of professional level research skills in all media of field documentation, transcription analysis and scholarly writing. Study of current related issues in ethnomusicology.

**Prerequisite:** MUS 62412; and doctoral standing.

**Schedule Type:** Laboratory

**Contact Hours:** 3 lab

**Grade Mode:** Standard Letter

**MUS 72451 INTRODUCTION TO MUSICOLOGY 3 Credit Hours**

Techniques of music research and creative musical writing including special projects, reports and readings.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MUS 72511 MUSIC HISTORY I 2 Credit Hours**

A study of Western music history from Jewish and medieval Roman practices through Josquin, as well as selected common-practice period applications.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MUS 72521 MUSIC HISTORY II 2 Credit Hours**

A study of Western music history from the Reformation and Counter-Reformation through Bach and Handel.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MUS 72531 MUSIC HISTORY III 2 Credit Hours**

A study of Western music history in the Rococo, Classical, and Romantic periods through Brahms and Wagner.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MUS 72541 MUSIC HISTORY IV 2 Credit Hours**

A study of Western music from Debussy and Mahler through the major trends and composers of the recent past.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MUS 72601 SEMINAR IN MUSICS OF AFRICA 3 Credit Hours**

(Slashed with MUS 62601) Specialized investigations of music cultures of Africa.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Seminar

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**MUS 72602 SEMINAR IN MUSICS OF THE AMERICAS 3 Credit Hours**

Specialized investigation of music cultures of the Americas.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Seminar

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**MUS 72603 SEMINAR IN MUSICS OF THE MIDDLE EAST 3 Credit Hours**

(Slashed with MUS 62603) Specialized investigation of music cultures of the Middle East.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Seminar

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**MUS 72604 SEMINAR IN MUSICS OF EAST ASIA 3 Credit Hours**

Specialized investigation of music cultures of East Asia.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Seminar

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**MUS 72606 SEMINAR IN MUSICS OF SOUTHEAST ASIA 3 Credit Hours**

(Slashed with MUS 62606) Specialized investigation of music cultures in Southeast Asia.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Seminar

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**MUS 72691 SEMINAR IN ETHNOMUSICOLOGY 3 Credit Hours**

(Repeatable for credit) Specialized topics in ethnomusicology for advanced students.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Seminar

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**MUS 73261 ADVANCED STUDIES IN SECONDARY CHORAL AND GENERAL MUSIC 3 Credit Hours**

Review curriculum in secondary general music and development of innovative teaching materials and strategies. Analytical techniques, rehearsal procedures, repertory suitable for secondary school choral ensembles.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MUS 73262 ADVANCED STUDIES IN INSTRUMENTAL MUSIC 3 Credit Hours**

Study of curriculum, method techniques and materials in school instrumental music education.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MUS 73263 ADVANCED STUDIES IN GENERAL MUSIC FOR CHILDREN 3 Credit Hours**

Study of trends in philosophy, curriculum and program development, instructional materials and innovative teaching techniques for elementary school and early childhood general music.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MUS 73272 LEARNING THEORIES IN MUSIC 3 Credit Hours**

Application of current theories of learning to the teaching and learning of music.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MUS 73273 PSYCHOLOGY OF MUSIC 3 Credit Hours**

The study of music's effect on human behavior including physiological and affective responses. Applications of music psychology to the teaching and learning of music will be explored.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MUS 73274 FOUNDATIONS OF MUSIC EDUCATION 3 Credit Hours**

Study of the influences on the field of music education, including sociology, psychology, philosophy, curriculum and history.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MUS 73283 RESEARCH IN MUSIC EDUCATION 3 Credit Hours**

Introduction to research techniques in music education including topic selection, data collection analysis and interpretation and presentation of information in written form.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MUS 73284 HISTORY OF MUSIC EDUCATION 3 Credit Hours**

Study of historical approaches to music education with emphasis on significant people, places and events that have influenced teaching and learning music.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MUS 73285 PHILOSOPHY OF MUSIC EDUCATION 3 Credit Hours**

(Slashed with MUS 63285) Study of the philosophical foundations of music education with emphasis on the application of aesthetics to teaching and experiencing music.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MUS 73286 SOCIOLOGY OF MUSIC EDUCATION 3 Credit Hours**

Sociology in Music Education focuses on sociocultural issues in music teaching and learning. Students consider contexts of society, background, race, ethnicity, culture, diversity and pluralism as applicable in music education situations.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Seminar

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MUS 73295 SPECIAL TOPICS IN MUSIC EDUCATION 3 Credit Hours**

(Repeatable for credit) Advanced study in selected topics that will vary from semester to semester depending on needs and interests of students.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Seminar

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**MUS 73381 ADVANCED RESEARCH IN MUSIC EDUCATION 3 Credit Hours**

The design, implementation and reporting of research studies that illustrate a variety of methodological and statistical plans for research in music education.

**Prerequisite:** MUS 6/73283; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MUS 74111 CONDUCTING PROJECTS:CHORAL 2,4 Credit Hours**

(Repeatable for credit) Choral conducting techniques, score analysis, rehearsal procedures and study of musical style.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Private Lesson

**Contact Hours:** 1 other

**Grade Mode:** Standard Letter

**MUS 74121 CONDUCTING PROJECTS:BAND 2,4 Credit Hours**

(Repeatable for credit) Band conducting techniques, score analysis, rehearsal procedures and study of musical style.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Private Lesson

**Contact Hours:** 1 other

**Grade Mode:** Standard Letter

**MUS 74131 CONDUCTING PROJECTS:ORCHESTRA 2,4 Credit Hours**

(Repeatable for credit) Orchestra conducting techniques, score analysis rehearsal procedures and study of musical style.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Private Lesson

**Contact Hours:** 1 other

**Grade Mode:** Standard Letter

**MUS 75131 OPERA:SINGER-ACTOR TECHNIQUES 1 Credit Hour**  
(Repeatable for credit) A course designed to give the young singing actor practical operatic experience in the performance of portions of or complete operas.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Studio

**Contact Hours:** 9.5 other

**Grade Mode:** Standard Letter

**MUS 75141 KENT STATE UNIVERSITY CHORALE 1 Credit Hour**  
(Repeatable for credit) Study and performance of literature for vocal chamber ensemble from medieval through contemporary styles sung in the original language with appropriate accompaniment. An audition is required before registering for this course.

**Prerequisite:** Doctoral standing; and special approval.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 4.5 other

**Grade Mode:** Standard Letter

**MUS 75212 ORCHESTRA 1 Credit Hour**  
(Slashed with MUS 45212 and MUS 55212) (Repeatable for credit) A select group of instrumentalists assembled for the purpose of studying and performing orchestral music. Open to all KSU students, regardless of major. An audition is required.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Laboratory, Lecture, Combined Lecture and Lab

**Contact Hours:** 6 other

**Grade Mode:** Standard Letter

**MUS 75223 WIND ENSEMBLE 1 Credit Hour**  
(Slashed with MUS 45223 and MUS 55223) (Repeatable for credit) A select concert ensemble that performs the finest in wind instrument literature with emphasis on major original works. Open to all KSU students, regardless of major. An audition is required.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Laboratory, Lecture, Combined Lecture and Lab

**Contact Hours:** 4 other

**Grade Mode:** Standard Letter

**MUS 75231 JAZZ ENSEMBLE 1 Credit Hour**  
(Repeatable for credit) Study and performance of music literature in the jazz idiom.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 7.5 other

**Grade Mode:** Standard Letter

**MUS 75271 NEW MUSIC ENSEMBLE 1 Credit Hour**  
(Repeatable for credit) Study and performance of 20th- and 21st-century chamber music with an emphasis on works by contemporary composers.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Studio

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**MUS 75311 CHAMBER MUSIC 1,2 Credit Hour**  
(Repeatable for credit) (Slashed with MUS 45311 and MUS 55311) The study and performance of music for small ensembles.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Studio

**Contact Hours:** 2-4 other

**Grade Mode:** Standard Letter

**MUS 78251 PEDAGOGY OF MUSIC THEORY 2 Credit Hours**  
(Slashed with MUS 58251) The principles and techniques of teaching music theory.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**MUS 78393 VARIABLE TITLE WORKSHOP IN MUSIC 1-4 Credit Hours**  
(Repeatable for credit) Offered for specific professional needs. Emphasis on performance and pedagogical skills.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Workshop

**Contact Hours:** 1-4 other

**Grade Mode:** Satisfactory/Unsatisfactory

**MUS 81196 INDIVIDUAL INVESTIGATION IN MUSIC THEORY 1-6 Credit Hours**  
(Repeatable for credit) Intensive research or readings on selected topic beyond normal course coverage.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Individual Investigation

**Contact Hours:** 1-6 other

**Grade Mode:** Satisfactory/Unsatisfactory

**MUS 81211 COMPOSITION 2,4 Credit Hours**  
(Repeatable for credit) Refinement of compositional techniques culminating in large-scale works for media of student's choice.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Private Lesson, Studio

**Contact Hours:** 1 other

**Grade Mode:** Standard Letter

**MUS 82291 SEMINAR IN MUSICOLOGY 3 Credit Hours**  
(Repeatable for credit) Examination into primary sources, treatises and writings in selected areas in Western music. Topics selected range from medieval period to present.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Seminar

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**MUS 82396 INDIVIDUAL INVESTIGATION IN MUSICOLOGY 1-6 Credit Hours**  
(Repeatable for credit) Intensive research or readings on selected topic beyond normal course coverage.

**Prerequisite:** Doctoral standing; and special approval.

**Schedule Type:** Individual Investigation

**Contact Hours:** 1-6 other

**Grade Mode:** Satisfactory/Unsatisfactory

**MUS 82696 INDIVIDUAL INVESTIGATION IN ETHNOMUSICOLOGY 1-6 Credit Hours**  
(Repeatable for credit) Intensive research or readings on selected topic beyond normal course coverage.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Individual Investigation

**Contact Hours:** 1-6 other

**Grade Mode:** Satisfactory/Unsatisfactory

**MUS 83196 INDIVIDUAL INVESTIGATION IN MUSIC EDUCATION 1-6****Credit Hours**

(Repeatable for credit)Intensive research or readings on selected topic beyond normal course coverage.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Individual Investigation

**Contact Hours:** 1-6 other

**Grade Mode:** Satisfactory/Unsatisfactory

**MUS 86001 SEMINAR IN MUSIC EDUCATION I 3 Credit Hours**

This courses prepares students for doctoral study in music education. Topics include understanding tasks and skills necessary for PhD study in music education, along with navigating this study at Kent State. Students interact in seminar format as part of a cohort of students pursuing the study of music teaching and learning.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Seminar

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MUS 86002 SEMINAR IN MUSIC EDUCATION II 3 Credit Hours**

This doctoral level course is designed to ready students for final activities of PhD study in music education. Goals include preparation for qualifying exams, understanding of the research proposal process, and exploration of advanced research methodologies and protocols necessary to undertake a dissertation and or significant research project.

**Prerequisite:** MUS 86001, CI 87000 and EVAL 75510; and doctoral standing.

**Schedule Type:** Seminar

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MUS 88199 DISSERTATION I 15 Credit Hours**

(Repeatable for credit)Doctoral dissertation for which registration in at least two semesters is required, first of which will be semester in which dissertation work is begun and continuing until the completion of 30 hours.

**Prerequisite:** Pass candidacy examination; and doctoral standing.

**Schedule Type:** Dissertation

**Contact Hours:** 15 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**MUS 88299 DISSERTATION II 15 Credit Hours**

(Repeatable for credit)Continuing registration required of doctoral students who have completed the initial 30 hours of dissertation and continuing until all degree requirements are met.

**Prerequisite:** MUS 88199; and doctoral standing.

**Schedule Type:** Dissertation

**Contact Hours:** 15 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**MUS 88598 RESEARCH 1-15 Credit Hours**

(Repeatable for credit)Research or individual investigation for doctoral students who have not yet passed their candidacy examinations.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Research

**Contact Hours:** 1-15 other

**Grade Mode:** Standard Letter-IP

## Audio Recording - Minor

**College of the Arts**

School of Music

E101 Center for the Performing Arts

Kent Campus

330-672-2172

schoolofmusic@kent.edu

www.kent.edu/music

## Description

The Audio Recording minor is designed to give students a strong foundation in the rapidly developing field of audio recording technologies. Coupled with courses in music, the minor provides students with the necessary tools to be successful in studio equipment, techniques and standards.

### Fully Offered At:

- Stark Campus

## Admission Requirements

Admission to a minor is open to students declared in a bachelor's degree, the A.A.B. or A.A.S. degree or the A.T.S. degree (not Individualized Program major). Students declared only in the A.A. or A.S. degree or the A.T.S. degree in Individualized Program may not declare a minor. Students may not pursue a minor and a major in the same discipline.

## Minor Requirements

Code	Title	Credit Hours
<b>Minor Requirements</b>		
MUS 21113	MUSIC PRODUCTION I	3
MUS 21221	AUDIO RECORDING I	3
MUS 21222	AUDIO RECORDING II	3
MUS 31221	AUDIO RECORDING III	3
MUS 31222	AUDIO RECORDING IV	3
Minor Electives, choose from the following:		8
CA 31300	MUSIC CAREER DEVELOPMENT AND ENTREPRENEURSHIP	
MUS 17011	PIANO CLASS FOR NONMUSIC STUDENTS	
MUS 17012	PIANO CLASS FOR NONMUSIC STUDENTS	
MUS 17111	PIANO CLASS I	
MUS 17112	PIANO CLASS II	
MUS 22111	THE UNDERSTANDING OF MUSIC (KFA)	
MUS 22121	MUSIC AS A WORLD PHENOMENON (DIVG) (KFA)	
MUS 26111	APPLIED MUSIC PIANO	
MUS 26311	APPLIED MUSIC VOICE	
MUS 26411	APPLIED MUSIC - VIOLIN	
MUS 26412	APPLIED MUSIC - VIOLA	
MUS 26413	APPLIED MUSIC - CELLO	
MUS 26414	APPLIED MUSIC DOUBLE BASS	
MUS 26511	APPLIED MUSIC - FLUTE	
MUS 26512	APPLIED MUSIC - OBOE	
MUS 26513	APPLIED MUSIC - CLARINET	
MUS 26514	APPLIED MUSIC - BASSOON	
MUS 26515	APPLIED MUSIC - SAXOPHONE	
MUS 26611	APPLIED MUSIC - TRUMPET	
MUS 26612	APPLIED MUSIC - HORN	
MUS 26613	APPLIED MUSIC - TROMBONE	
MUS 26614	APPLIED MUSIC - EUPHONIUM	
MUS 26615	APPLIED MUSIC - TUBA	

MUS 26711	APPLIED MUSIC PERCUSSION
MUS 26912	APPLIED MUSIC GUITAR
MUS 27111	PIANO CLASS III
MUS 27112	PIANO CLASS IV
MUS 32230	NAVIGATING THE MUSIC INDUSTRY
MUS 36913	APPLIED STUDIO MUSICIANSHIP
MUS 36914	ELECTRIC GUITAR APPLIED STUDIO MUSICIANSHIP
MUS 36915	ELECTRIC BASS APPLIED STUDIO MUSICIANSHIP
MUS 36916	DRUM SET PERCUSSION APPLIED STUDIO MUSICIANSHIP
MUS 36917	KEYBOARD APPLIED STUDIO MUSICIANSHIP
MUS 36918	CONTEMPORARY VOICE APPLIED STUDIO MUSICIANSHIP
MUS 36919	FLUTE APPLIED STUDIO MUSICIANSHIP
MUS 36920	CLARINET APPLIED STUDIO MUSICIANSHIP
MUS 36921	SAXOPHONE APPLIED STUDIO MUSICIANSHIP
MUS 36922	TRUMPET APPLIED STUDIO MUSICIANSHIP
MUS 36923	HORN APPLIED STUDIO MUSICIANSHIP
MUS 36924	TROMBONE APPLIED STUDIO MUSICIANSHIP
MUS 41221	AUDIO RECORDING V
MUS 41222	AUDIO RECORDING VI
MUS 41181	ACOUSTICS AND TECHNOLOGY IN MUSIC
MUS 42165	HISTORY OF CONTEMPORARY POPULAR MUSIC (DIVD) (WIC)
Music (MUS) 36000 level Applied Music Electives (Repeatable)	
Music (MUS) Ensemble Electives <sup>1</sup>	

Minimum Total Credit Hours: 23

<sup>1</sup> Music ensemble electives may include MUS 35213.

## Graduation Requirements

Minimum Minor GPA	Minimum Overall GPA
2.000	2.000

- Students declared in the Music or Music Education major must take 18 credit hours that are separate from music degree requirements.
- MUS 11110, MUS 11111, MUS 16914 and MUS 16915 will not count as credit for graduation in this program.
- Minimum 6 credit hours in the minor must be upper-division coursework (30000 and 40000 level).
- Minimum 6 credit hours in the minor must be outside of the course requirements for any major or other minor the student is pursuing.
- Minimum 50 percent of the total credit hours for the minor must be taken at Kent State (in residence).

## Conducting - M.M.

### College of the Arts

School of Music

E101 Center for the Performing Arts

Kent Campus

330-672-2172

[schoolofmusic@kent.edu](mailto:schoolofmusic@kent.edu)

[www.kent.edu/music](http://www.kent.edu/music)

## Description

The Master of Music degree in Conducting is designed for current teachers of middle, junior and senior high school music ensemble programs, for professional church musicians and for pre-professionals such as students continuing after completing undergraduate degrees. The program prepares post-undergraduate students for such paths as high school or college teaching, conducting positions and doctorates in conducting. The degree emphasizes development of skills, knowledge and background in the following areas: literature and repertoire; conducting technique; rehearsal technique; score study; choral and/or instrumental performance pedagogy; historical performance practices; interpretation and expression.

## Fully Offered At:

- Kent Campus

## Accreditation

National Association of Schools of Music

## Admission Requirements

- Bachelor's degree from an accredited college or university for unconditional admission
- Minimum 3.000 undergraduate GPA on a 4.000 point scale for unconditional admission
- Official transcript(s)
- Résumé
- Goal statement(s)
- Three letters of recommendation
- Audition
- English language proficiency - all international students must provide proof of English language proficiency (unless they meet specific exceptions) by earning one of the following:
  - Minimum 525 TOEFL PBT score (paper-based version)
  - Minimum 71 TOEFL IBT score (Internet-based version)
  - Minimum 74 MELAB score
  - Minimum 6.0 IELTS score
  - Minimum 50 PTE score
  - Minimum 100 Duolingo test score

For more information about graduate admissions, please visit the Graduate Studies admission website. For more information on international admission, visit the Office of Global Education's admission website.

## Program Learning Outcomes

Graduates of the program will be able to:

1. Recognize, identify, interpret and conduct representative literature from different historical periods, countries and composers.
2. Demonstrate and apply advanced conducting techniques including baton technique, use of hands/arms, facial expressions and body language.
3. Demonstrate the ability to plan and execute an efficient and productive rehearsal including time management, setting achievable



goals, ability to detect and correct errors, providing motivation and inspiration for expressive performance and focused work ethic.

4. Utilize and discuss score study techniques such as keyboard score reading, transposition of instruments, instrumental/vocal score order, compositional structure, analysis of chord and melodic structures and audiation skills.
5. Identify, explain and utilize performance pedagogy appropriate to the specific vocal or instrumental area of study.
6. Identify, associate, differentiate and utilize performance practices appropriate to the literature of the various stylistic periods.
7. Display interpretation and expression in music through discussion in conducting lessons, explanation in rehearsals and demonstration in rehearsal and performance settings through conducting gestures and the resulting musical product.

## Program Requirements

### Major Requirements

Code	Title	Credit Hours
<b>Major Requirements</b>		
MUS 62411	MUSIC BIBLIOGRAPHY AND RESEARCH METHODS	2
MUS 68687	RECITAL	1
Music (MUS) 55000-Level Ensemble Electives <sup>1</sup>		4
Conducting Projects Electives, choose from the following: <sup>2</sup>		8
MUS 64111	CONDUCTING PROJECTS:CHORAL	
MUS 64121	CONDUCTING PROJECTS:BAND	
MUS 64131	CONDUCTING PROJECTS:ORCHESTRA	
Music Theory Elective, choose from the following: <sup>3</sup>		2-4
MUS 51141	16TH-CENTURY COUNTERPOINT	
MUS 51151	18TH-CENTURY COUNTERPOINT	
MUS 61131	SCHENKERIAN ANALYSIS	
MUS 61171	ANALYTICAL TECHNIQUES I	
MUS 61172	ANALYTICAL TECHNIQUES II	
MUS 61191	SEMINAR IN MUSIC SINCE 1900	
Music History Electives, choose from the following:		4-6
MUS 52131	AMERICA'S MUSIC	
MUS 52161	HISTORY OF JAZZ	
MUS 52171	MUSIC FROM WORLD CULTURES	
MUS 62511	MUSIC HISTORY I	
MUS 62521	MUSIC HISTORY II	
MUS 62531	MUSIC HISTORY III	
MUS 62541	MUSIC HISTORY IV	
<b>Concentration Requirements</b>		
Choose from the following		7-11
Choral Conducting Concentration		
Orchestra Conducting Concentration		
Wind Band Conducting Concentration		
Minimum Total Credit Hours:		32

<sup>1</sup> Students who elect the Choral Concentration must enroll for a minimum of 4 credit hours of major choral ensemble, to include a minimum of 2 semesters of MUS 55141.

<sup>2</sup> Specific course numbers vary depending on concentration.

<sup>3</sup> Selection of music theory course is based on students' result from the theory placement exam. In the case of the exam results placing a student into MUS 41111, the undergraduate course will not count towards the M.M. degree and must be taken in addition to the graduate-level music theory requirements.

### Choral Conducting Concentration Requirements

Code	Title	Credit Hours
<b>Concentration Requirements</b>		
MUS 52271	CHORAL LITERATURE I	3
MUS 52272	CHORAL LITERATURE II	3
Music (MUS) Electives		1-5
Minimum Total Credit Hours:		7-11

### Orchestra Conducting Concentration Requirements

Code	Title	Credit Hours
<b>Concentration Requirements</b>		
MUS 51321	ORCHESTRATION	3
or MUS 52221	SYMPHONIC LITERATURE	
MUS 68687	RECITAL	1
or MUS 68698	ESSAY	
Music (MUS) Electives		3-7
Minimum Total Credit Hours:		7-11

### Wind Band Conducting Concentration Requirements

Code	Title	Credit Hours
<b>Concentration Requirements</b>		
MUS 51321	ORCHESTRATION	2-3
or MUS 52221	SYMPHONIC LITERATURE	
or MUS 61331	BAND ARRANGING	
or MUS 62227	HISTORY AND LITERATURE OF THE WIND BAND	
MUS 68687	RECITAL	1
or MUS 68698	ESSAY	
Music (MUS) Electives		4-7
Minimum Total Credit Hours:		7-11

## Ethnomusicology - M.A.

### College of the Arts

School of Music  
E101 Center for the Performing Arts  
Kent Campus  
330-672-2172  
schoolofmusic@kent.edu  
www.kent.edu/music

### Description

The Master of Arts degree in Ethnomusicology is designed to offer students a solid foundation in regional studies of music style, performance practice, history and cultural associations in order to prepare students for continued graduate studies at the doctoral level and/or public sector careers in world music. The program integrates theoretical perspectives relevant to the discipline with these practical

aims, so that students can communicate effectively with persons within and outside the field of ethnomusicology. While a balanced global coverage is emphasized, Kent State music faculty focus on studies in Central Africa, mainland Southeast Asia, East Asia, the Caribbean, North and South America and the Middle East, as well as popular music studies. Theoretical concerns include sociocultural identity, semiotics, gender studies, politics and power, ritual studies, globalization and hybridity, as well as studies in inter-related arts (e.g., dance and theatre).

### Fully Offered At:

- Kent Campus

## Accreditation

National Association of Schools of Music

## Admission Requirements

- Bachelor's degree from an accredited college or university for unconditional admission
- Minimum 3.000 undergraduate GPA on a 4.000 point scale for unconditional admission
- Official transcript(s)
- Résumé
- Goal statement(s)
- Academic paper written in English
- Three letters of recommendation
- English language proficiency - all international students must provide proof of English language proficiency (unless they meet specific exceptions) by earning one of the following:
  - Minimum 525 TOEFL PBT score (paper-based version)
  - Minimum 71 TOEFL IBT score (Internet-based version)
  - Minimum 74 MELAB score
  - Minimum 6.0 IELTS score
  - Minimum 50 PTE score
  - Minimum 100 Duolingo test score

For more information about graduate admissions, please visit the Graduate Studies admission website. For more information on international admission, visit the Office of Global Education's admission website.

## Program Learning Outcomes

Graduates of the program are able to:

1. Recognize, identify, interpret and discuss theoretical concerns and important contributions of historical figures in the field of ethnomusicology, as well as representative music styles from different historical periods, countries and ethnic populations.
2. Demonstrate and apply fieldwork techniques including proficiency with photography, videography and audio recording, interviewing and participant-observation research.
3. Demonstrate the ability to plan and execute an efficient and productive lecture presentation in an academic setting for use at professional conferences, concert performances and classroom teaching that includes time management, clear and effective explanation, efficient use of multi-media, and successful question and answer interactions.

4. Utilize and discuss theoretical issues related to ethnomusicology and related disciplines, such as socio-cultural identity, semiotics, gender studies, politics and power, ritual studies, globalization and hybridity.
5. Identify, explain, and utilize performance pedagogy.
6. Analyze compositional forms, appropriate to the specific vocal or instrumental areas of study.
7. Display performance and interpretation skills in music.

## Program Requirements

### Major Requirements

Code	Title	Credit Hours
<b>Major Requirements</b>		
MUS 55312	WORLD MUSIC ENSEMBLE	2
MUS 61173	WORLD MUSIC ANALYSIS	2
MUS 62411	MUSIC BIBLIOGRAPHY AND RESEARCH METHODS	2
MUS 62412	INTRODUCTION TO ETHNOMUSICOLOGY	3
MUS 62414	ISSUES AND TRENDS IN ETHNOMUSICOLOGY	2
MUS 68199	THESIS I <sup>1</sup>	6
Music (MUS) Electives <sup>2</sup>		6
Major Electives, choose from the following:		6
MUS 52111	AFRICAN MUSIC AND CULTURES	
MUS 52141	FOLK MUSIC OF EUROPE AND NORTH AMERICA	
MUS 52151	ASIAN MUSICS	
MUS 52181	POPULAR WORLD MUSIC	
Seminar Elective, choose from the following:		3
MUS 62601	SEMINAR IN MUSICS OF AFRICA	
MUS 62602	SEMINAR IN MUSICS OF THE AMERICAS	
MUS 62603	SEMINAR IN MUSICS OF THE MIDDLE EAST	
MUS 62604	SEMINAR IN MUSICS OF EAST ASIA	
MUS 62606	SEMINAR IN MUSICS OF SOUTHEAST ASIA	
Minimum Total Credit Hours:		32

<sup>1</sup> All students writing a thesis must pass a final oral examination covering the thesis and the student's major area of study. The final oral examination may be attempted two times.

<sup>2</sup> Students may take a related, non-music course from an outside discipline (e.g. anthropology) with advisor approval.

## Jazz Studies - Minor

### College of the Arts

School of Music  
E101 Center for the Performing Arts  
Kent Campus  
330-672-2172  
schoolofmusic@kent.edu  
www.kent.edu/music

## Description

The Jazz Studies minor promotes the development of fundamental skills in jazz. The minor provides instruction in performance, composition and arranging.

**Fully Offered At:**

- Kent Campus

**Admission Requirements**

Admission to a minor is open to students declared in a bachelor's degree, the A.A.B. or A.A.S. degree or the A.T.S. degree (not Individualized Program major). Students declared only in the A.A. or A.S. degree or the A.T.S. degree in Individualized Program may not declare a minor. Students may not pursue a minor and a major in the same discipline.

To declare the Jazz Studies minor, students must audition to music faculty in voice or on an instrument.

**Minor Requirements**

Code	Title	Credit Hours
<b>Minor Requirements (min C grade required in all courses)</b>		
MUS 17013	FUNDAMENTALS OF JAZZ PIANO	1
MUS 36011	APPLIED MUSIC - JAZZ (repeated for 2 semesters) <sup>1</sup>	4
MUS 41341	JAZZ IMPROVISATION I	1
MUS 41342	JAZZ COMPOSING AND ARRANGING <sup>2</sup>	2
MUS 41351	JAZZ IMPROVISATION II	1
MUS 42162	JAZZ STYLES AND ANALYSIS	3
MUS 45231	JAZZ ENSEMBLE (repeated for 4 semesters)	4
MUS 45312	JAZZ COMBO DEVELOPMENT (repeated for 2 semesters)	2
Minimum Total Credit Hours:		18

<sup>1</sup> A half-jazz recital or approved equivalent is required to complete the minor. Registration in MUS 36011 is required during the jazz recital semester.

<sup>2</sup> Advanced pianists may replace MUS 41342 with MUS 48598.

**Graduation Requirements**

Minimum Minor GPA	Minimum Overall GPA
2.250	2.000

- Minimum C grade is required in all courses for the minor.
- MUS 11110, MUS 11111, MUS 16914 and MUS 16915 will not count as credit for graduation in this program.
- Minimum 6 credit hours in the minor must be upper-division coursework (30000 and 40000 level).
- Minimum 6 credit hours in the minor must be outside of the course requirements for any major or other minor the student is pursuing.
- Minimum 50 percent of the total credit hours for the minor must be taken at Kent State (in residence).

**Music - B.A.**

College of the Arts  
School of Music  
E101 Center for the Performing Arts  
Kent Campus  
330-672-2172  
schoolofmusic@kent.edu

www.kent.edu/music

**Description**

The Bachelor of Arts degree in Music gives music majors an opportunity to study music and liberal arts with an optional minor, available in most academic areas of the university, or as a dual degree program with a major in another field. Although not as music intensive as the Bachelor of Music degree, the B.A. degree includes study on a main instrument and ensemble participation throughout the program.

The Music major includes the following optional concentrations:

- The **Contemporary Popular Music** concentration provides students the opportunity to study contemporary instruments such as electric guitar, electric bass and voice, as well as participate in a variety of styles including rock, pop, Motown and other popular styles.
- The **Jazz Studies** concentration provides students the opportunity to study jazz improvisation, arranging and composing.

**Fully Offered At:**

- Kent Campus
- Stark Campus (Contemporary Popular Music concentration only)

**Accreditation**

National Association of Schools of Music.

**Admission Requirements**

The university affirmatively strives to provide educational opportunities and access to students with varied backgrounds, those with special talents and adult students who graduated from high school three or more years ago.

Admission to this major is selective. Students must audition before being admitted to the Music major. Inquiries can be directed to the coordinator of admissions and scholarships, School of Music, E-101 Music and Speech, Kent State University, Kent, OH 44242-0001 (or call 330-672-2172).

For more information on admissions, including additional requirements for some academic programs, visit the admissions website for new freshmen and the admissions website for transfer, transitioning and former students.

**English Language Proficiency Requirements for International Students:**

All international students must provide proof of English language proficiency (unless they meet specific exceptions) by earning a minimum 525 TOEFL score (71 on the Internet-based version), minimum 75 MELAB score, minimum 6.0 IELTS score or minimum 48 PTE Academic score, or by completing the ELS level 112 Intensive Program. For more information on international admission, visit the Office of Global Education's admission website.

**Program Learning Outcomes**

Graduates of this program will be able to:

1. Demonstrate knowledge of music history and theory
2. Demonstrate high-level skills in recitals, ensembles or music research

## University Requirements

All students in a bachelor's degree program at Kent State University must complete the following university requirements for graduation.

**NOTE:** University requirements may be fulfilled in this program by specific course requirements. Please see Program Requirements for details.

Destination Kent State: First Year Experience	1
Course is not required for students with 25 transfer credits, excluding College Credit Plus, or age 21+ at time of admission.	
Diversity Domestic/Global (DIVD/DIVG)	2 courses
Students must successfully complete one domestic and one global course, of which one must be from the Kent Core.	
Experiential Learning Requirement (ELR)	varies
Students must successfully complete one course or approved experience.	
Kent Core (see table below)	36-37
Writing-Intensive Course (WIC)	1 course
Students must earn a minimum C grade in the course.	
Upper-Division Requirement	39 (or 42)
Students must successfully complete 39 upper-division (numbered 30000 to 49999) credit hours to graduate. Students in a B.A. and/or B.S. degree in the College of Arts and Sciences must complete 42 upper-division credit hours.	
Total Credit Hour Requirement	120
Some bachelor's degrees require students to complete more than 120 credit hours.	

## Kent Core Requirements

Kent Core Composition (KCOMP)	6
Kent Core Mathematics and Critical Reasoning (KMCR)	3
Kent Core Humanities and Fine Arts (KHUM/KFA) (min one course each)	9
Kent Core Social Sciences (KSS) (must be from two disciplines)	6
Kent Core Basic Sciences (KBS/KLAB) (must include one laboratory)	6-7
Kent Core Additional (KADL)	6
<b>Total Credit Hours:</b>	<b>36-37</b>

## Program Requirements

### Major Requirements

Code	Title	Credit Hours
<b>Major Requirements (courses count in major GPA) (min C grade in all required courses)</b>		
MUS 11121	THEORY I	4
MUS 11122	THEORY II	4
MUS 21111	THEORY III	4
MUS 21112	THEORY IV	4
MUS 22111	THE UNDERSTANDING OF MUSIC (KFA) (music major section)	3
MUS 22121	MUSIC AS A WORLD PHENOMENON (DIVG) (KFA) (music major section)	3
MUS 34111	INTRODUCTION TO CONDUCTING	2
Piano Class, choose from the following: <sup>1</sup>		
MUS 17111	PIANO CLASS I	2
MUS 17112	PIANO CLASS II	

MUS 27111	PIANO CLASS III	
MUS 27112	PIANO CLASS IV	
Major Ensemble, choose from the following: <sup>2</sup>		1
MUS 45111	UNIVERSITY CHOIR	
MUS 45141	KENT STATE UNIVERSITY CHORALE	
MUS 45142	CORO CANTARE	
MUS 45143	CANTIQUÉ	
MUS 45212	ORCHESTRA	
MUS 45221	SYMPHONY BAND	
MUS 45223	WIND ENSEMBLE	
<b>Additional Requirements (courses do not count in major GPA)</b>		
CA 31300	MUSIC CAREER DEVELOPMENT AND ENTREPRENEURSHIP	2
UC 10097	DESTINATION KENT STATE: FIRST YEAR EXPERIENCE	1
Kent Core Composition		6
Kent Core Mathematics and Critical Reasoning		3
Kent Core Humanities		3
Kent Core Social Sciences (must be from two disciplines)		6
Kent Core Basic Sciences (must include one laboratory)		6-7
Kent Core Additional		6
Non Music (MUS) Electives		33
<b>Additional Requirements or Concentrations</b>		
Choose from the following:		27
Additional Requirements for Students Not Declaring a Concentration		
Contemporary Popular Music Concentration		
Jazz Studies Concentration		
Minimum Total Credit Hours:		120

<sup>1</sup> Piano Class (2 credit hours): placement test required. Students who have piano as their main instrument and students placed into Applied Music-Piano replace with music (MUS) electives.

<sup>2</sup> Major ensemble (8 separate semesters of music ensemble are required): Students must enroll in an ensemble appropriate to their major performance area. Students in the Contemporary Popular Music concentration take 1 semester of major ensemble and 7 separate semesters of MUS 35213. MUS 25011 and MUS 25225 can be used for major ensemble credit. Students in the Jazz Studies concentration take one semester of major ensemble and 4 semesters of MUS 45321 and 4 semesters of MUS 45312. Voice students in the Jazz Studies concentration replace MUS 45321 with MUS 45313.

### Additional Requirements for Students Not Declaring a Concentration

Code	Title	Credit Hours
<b>Additional Requirements (courses count in major GPA) (min C grade required in all courses)</b>		
MUS 32211	MUSIC HISTORY I	3
MUS 32212	MUSIC HISTORY II (WIC)	3
Senior Recital or Research Electives, choose from the following:		2
MUS 48598	MUSIC RESEARCH (ELR)	
MUS 36XXX	Applied Music (Senior Recital) <sup>1</sup>	
Applied Music Electives, choose from the following: <sup>2</sup>		12
MUS 21211	CLASS COMPOSITION I	
MUS 21212	CLASS COMPOSITION II	
MUS 36111	APPLIED MUSIC-PIANO <sup>3</sup>	

MUS 36311	APPLIED MUSIC-VOICE	
MUS 36411	APPLIED MUSIC-VIOLIN	
MUS 36412	APPLIED MUSIC-VIOLA	
MUS 36413	APPLIED MUSIC-CELLO	
MUS 36414	APPLIED MUSIC-DOUBLE BASS	
MUS 36511	APPLIED MUSIC-FLUTE	
MUS 36512	APPLIED MUSIC-OBOE	
MUS 36513	APPLIED MUSIC-CLARINET	
MUS 36514	APPLIED MUSIC-BASSOON	
MUS 36515	APPLIED MUSIC-SAXOPHONE	
MUS 36611	APPLIED MUSIC-TRUMPET	
MUS 36612	APPLIED MUSIC-HORN	
MUS 36613	APPLIED MUSIC-TROMBONE	
MUS 36614	APPLIED MUSIC-EUPHONIUM	
MUS 36615	APPLIED MUSIC-TUBA	
MUS 36711	APPLIED MUSIC-PERCUSSION	
MUS 36912	APPLIED MUSIC-GUITAR	
Major Ensemble Electives, choose from the following: <sup>4</sup>		7
MUS 45111	UNIVERSITY CHOIR	
MUS 45141	KENT STATE UNIVERSITY CHORALE	
MUS 45142	CORO CANTARE	
MUS 45143	CANTIQUÉ	
MUS 45212	ORCHESTRA	
MUS 45221	SYMPHONY BAND	
MUS 45223	WIND ENSEMBLE	

Minimum Total Credit Hours: 27

- <sup>1</sup> The Senior Recital may be used to satisfy the Experiential Learning Requirement (ELR), with approval.
- <sup>2</sup> Applied Music: Students not declaring a concentration will need to take a total of 6 semesters and 12 credit hours of Applied Music or replace up to 2 semesters of applied music with MUS 21211 and MUS 21212. Based on instrument of music degree acceptance. Students must meet the 46000 entry level prior to graduation. The 46000 level may be taken following a successful 46000-level barrier exam. One semester of MUS 21211 can replace one semester of MUS 31211.
- <sup>3</sup> Piano Class (2 credit hours): placement test required. Students who have piano as their main instrument and students placed into applied Music-Piano replace with music (MUS) electives.
- <sup>4</sup> Major ensemble (8 separate semesters of music ensemble are required): Students must enroll in a major ensemble appropriate to their major performance area.

## Contemporary Popular Music Concentration Requirements

Code	Title	Credit Hours
<b>Concentration Requirements (courses count in major GPA) (min C grade required in all courses)</b>		
MUS 21341	CONTEMPORARY POPULAR MUSIC THEORY <sup>1</sup>	3
MUS 35213	STUDIO ENSEMBLE <sup>1</sup>	7
MUS 36913 or MUS 48598	APPLIED STUDIO MUSICIANSHIP <sup>2</sup> MUSIC RESEARCH (ELR)	2
MUS 42165	HISTORY OF CONTEMPORARY POPULAR MUSIC (DIVD) (WIC)	3
Composition or Applied Studio Musicianship Electives, choose from the following. <sup>3</sup>		8

MUS 31211	COMPOSITION <sup>4</sup>	
MUS 36913	APPLIED STUDIO MUSICIANSHIP <sup>1</sup>	
MUS 36914	ELECTRIC GUITAR APPLIED STUDIO MUSICIANSHIP <sup>1,5</sup>	
MUS 36915	ELECTRIC BASS APPLIED STUDIO MUSICIANSHIP <sup>1,5</sup>	
MUS 36916	DRUM SET PERCUSSION APPLIED STUDIO MUSICIANSHIP <sup>1</sup>	
MUS 36917	KEYBOARD APPLIED STUDIO MUSICIANSHIP <sup>1</sup>	
MUS 36918	CONTEMPORARY VOICE APPLIED STUDIO MUSICIANSHIP <sup>1</sup>	
MUS 36919	FLUTE APPLIED STUDIO MUSICIANSHIP <sup>1</sup>	
MUS 36920	CLARINET APPLIED STUDIO MUSICIANSHIP <sup>1</sup>	
MUS 36921	SAXOPHONE APPLIED STUDIO MUSICIANSHIP <sup>1</sup>	
MUS 36922	TRUMPET APPLIED STUDIO MUSICIANSHIP <sup>1</sup>	
MUS 36923	HORN APPLIED STUDIO MUSICIANSHIP <sup>1</sup>	
MUS 36924	TROMBONE APPLIED STUDIO MUSICIANSHIP <sup>1</sup>	

Applied Music Electives, choose from the following: 4

MUS 36111	APPLIED MUSIC-PIANO	
MUS 36311	APPLIED MUSIC-VOICE	
MUS 36414	APPLIED MUSIC-DOUBLE BASS	
MUS 36511	APPLIED MUSIC-FLUTE	
MUS 36512	APPLIED MUSIC-OBOE	
MUS 36513	APPLIED MUSIC-CLARINET	
MUS 36514	APPLIED MUSIC-BASSOON	
MUS 36515	APPLIED MUSIC-SAXOPHONE	
MUS 36611	APPLIED MUSIC-TRUMPET	
MUS 36612	APPLIED MUSIC-HORN	
MUS 36613	APPLIED MUSIC-TROMBONE	
MUS 36614	APPLIED MUSIC-EUPHONIUM	
MUS 36615	APPLIED MUSIC-TUBA	
MUS 36711	APPLIED MUSIC-PERCUSSION	
MUS 36912	APPLIED MUSIC-GUITAR	

Minimum Total Credit Hours: 27

- <sup>1</sup> Only available at the Stark Campus.
- <sup>2</sup> MUS 36913 Applied Studio Musicianship (Senior Recital) may be used to satisfy the Experiential Learning Requirement (ELR), with approval.
- <sup>3</sup> Applied Music: Students in the Contemporary Popular Music concentration must take 2 semesters and 4 credit hours of Applied Music and 8 credit hours of MUS 36913, MUS 36914, MUS 36915, MUS 36916, MUS 36917, MUS 36918, MUS 36919, MUS 36920, MUS 36921, MUS 36922, MUS 36923, MUS 36924 or MUS 31211 (one semester of MUS 21211 can be included). Students must also meet the 46000 entry level prior to graduation, the 46000 level may be taken following a successful 46000-level barrier exam.
- <sup>4</sup> One semester of MUS 21211 can replace one semester of MUS 31211.
- <sup>5</sup> Electric Guitar and Electric Bass students, based upon the audition, can be placed in either MUS 16914 or MUS 16915. Upon successful completion of two semesters of MUS 16914/MUS 16915 students continue with applied study as indicated in footnote 3.



## Jazz Studies Concentration Requirements

Code	Title	Credit Hours
<b>Concentration Requirements (courses count in major GPA) (min C grade require in all courses)</b>		
ENGR 31000	CULTURAL DYNAMICS TECHNOLOGY (DIVD) (WIC)	3
MUS 17013	FUNDAMENTALS OF JAZZ PIANO	1
MUS 36011	APPLIED MUSIC - JAZZ <sup>1</sup>	4
MUS 36011	APPLIED MUSIC - JAZZ <sup>2</sup>	2
or MUS 48598	MUSIC RESEARCH (ELR)	
MUS 41341	JAZZ IMPROVISATION I	1
MUS 41342	JAZZ COMPOSING AND ARRANGING	2
MUS 41351	JAZZ IMPROVISATION II	1
MUS 42162	JAZZ STYLES AND ANALYSIS	3
MUS 45231	JAZZ ENSEMBLE <sup>3</sup>	4
or MUS 45313	NOVA JAZZ SINGERS	
MUS 45312	JAZZ COMBO DEVELOPMENT <sup>3</sup>	4
Applied Music Electives, choose from the following: <sup>1</sup>		2
MUS 36111	APPLIED MUSIC-PIANO <sup>1</sup>	
MUS 36311	APPLIED MUSIC-VOICE	
MUS 36411	APPLIED MUSIC-VIOLIN	
MUS 36412	APPLIED MUSIC-VIOLA	
MUS 36413	APPLIED MUSIC-CELLO	
MUS 36414	APPLIED MUSIC-DOUBLE BASS	
MUS 36511	APPLIED MUSIC-FLUTE	
MUS 36512	APPLIED MUSIC-OBOE	
MUS 36513	APPLIED MUSIC-CLARINET	
MUS 36514	APPLIED MUSIC-BASSOON	
MUS 36515	APPLIED MUSIC-SAXOPHONE	
MUS 36611	APPLIED MUSIC-TRUMPET	
MUS 36612	APPLIED MUSIC-HORN	
MUS 36613	APPLIED MUSIC-TROMBONE	
MUS 36614	APPLIED MUSIC-EUPHONIUM	
MUS 36615	APPLIED MUSIC-TUBA	
MUS 36711	APPLIED MUSIC-PERCUSSION	
MUS 36912	APPLIED MUSIC-GUITAR	

Minimum Total Credit Hours: 27

<sup>1</sup> Applied Music: Students in the Jazz Studies concentration must take one semester and 2 credit hours of Applied Music and two semesters and 4 credit hours of MUS 36011.

<sup>2</sup> MUS 36011 Applied Music Jazz (Senior Recital) may be used to satisfy the Experiential Learning Requirement (ELR), with approval.

<sup>3</sup> Major Ensemble (8 separate semesters of music ensemble are required): Students in the Jazz Studies concentration take one semester of major ensemble and 4 semesters of MUS 45231 and 4 semesters of MUS 45312. Voice students in the Jazz Studies concentration replace MUS 45321 with MUS 45313.

## Graduation Requirements

Minimum Major GPA	Minimum Overall GPA
2.250	2.000

- Completion of the Major Field Test (MFT) in music history and music theory during senior year (specific score level achievement is not required)

- Minimum C grade in all music courses
- Completion of a senior recital or MUS 48598
- Attendance at minimum 84 concerts or recitals for students who begin the program as first semester freshmen (students who transferred from a non-music program or university must attend an average of 10 music concerts or recitals for semesters of full time enrollment)
- MUS 11110, MUS 11111, MUS 16914 and MUS 16915 will not count as credit for graduation in this program

## Roadmaps

- Music Major (no concentration)
- Contemporary Popular Music Concentration
- Jazz Studies Concentration

**MUSIC MAJOR (NO CONCENTRATION)**

This roadmap is a recommended semester-by-semester plan of study for this major. However, courses designated as critical (!) must be completed in the semester listed to ensure a timely graduation.

<b>Semester One</b>			<b>Credits</b>
!	MUS 11121	THEORY I	4
!	MUS 22111	THE UNDERSTANDING OF MUSIC (KFA)	3
!	MUS 36XXX	Applied Music	2
	UC 10097	DESTINATION KENT STATE: FIRST YEAR EXPERIENCE	1
!	Major Ensemble Elective		1
	Kent Core Requirement		3
Credit Hours			14
<b>Semester Two</b>			
!	MUS 11122	THEORY II	4
!	MUS 22121	MUSIC AS A WORLD PHENOMENON (DIVG) (KFA)	3
!	MUS 36XXX	Applied Music	2
!	Major Ensemble Elective		1
	Kent Core Requirement		3
	Kent Core Requirement		3
Credit Hours			16
<b>Semester Three</b>			
!	MUS 21111	THEORY III	4
!	MUS 36XXX	Applied Music	2
!	Major Ensemble Elective		1
	Kent Core Requirement		3
	Kent Core Requirement		3
	Non-Music Electives		3
Credit Hours			16
<b>Semester Four</b>			
!	MUS 21112	THEORY IV	4
!	MUS 36XXX	Applied Music	2
!	Major Ensemble Elective		1
	Piano Class Elective		1-2
	Kent Core Requirement		3
	Non-Music Electives		3
Credit Hours			14
<b>Semester Five</b>			
	CA 31300	MUSIC CAREER DEVELOPMENT AND ENTREPRENEURSHIP	2
!	MUS 32211	MUSIC HISTORY I	3
	MUS 34111	INTRODUCTION TO CONDUCTING	2
!	MUS 36XXX	Applied Music	2
!	Major Ensemble Elective		1
	Piano Class Elective		0-1
	Kent Core Requirement		3
	Non-Music Electives		1
Credit Hours			15
<b>Semester Six</b>			
!	MUS 32212	MUSIC HISTORY II (WIC)	3
!	MUS 36XXX	Applied Music	2
!	Major Ensemble Elective		1
	Kent Core Requirement		3
	Non-Music Electives		6
Credit Hours			15

**Semester Seven**

!	Major Ensemble Elective	1
	Senior Recital or Research Elective	2
	Kent Core Requirement	3
	Non-Music Electives	10
Credit Hours		16

**Semester Eight**

Successful completion of a major-field achievement test in music history and music theory.		
!	Major Ensemble Elective	1
	Kent Core Requirement	3
	Non-Music Electives	10
Credit Hours		14
Minimum Total Credit Hours:		120

## Contemporary Popular Music Concentration

This roadmap is a recommended semester-by-semester plan of study for this major. However, courses designated as critical (!) must be completed in the semester listed to ensure a timely graduation.

Semester One			Credits
!	MUS 11121	THEORY I	4
!	MUS 22111	THE UNDERSTANDING OF MUSIC (KFA)	3
	UC 10097	DESTINATION KENT STATE: FIRST YEAR EXPERIENCE	1
	Applied Music Electives		2
!	Major Ensemble or MUS 35213		1
	Kent Core Requirement		3
Credit Hours			14
Semester Two			
!	MUS 11122	THEORY II	4
!	MUS 22121	MUSIC AS A WORLD PHENOMENON (DIVG) (KFA)	3
	Applied Music Electives		2
!	Major Ensemble or MUS 35213		1
	Kent Core Requirement		3
	Kent Core Requirement		3
Credit Hours			16
Semester Three			
!	MUS 21111	THEORY III	4
!	Composition or Applied Studio Musicianship Elective		2
!	Major Ensemble or MUS 35213		1
	Kent Core Requirement		3
	Kent Core Requirement		3
	Non-Music Electives		3
Credit Hours			16
Semester Four			
!	MUS 21112	THEORY IV	4
!	Composition or Applied Studio Musicianship Elective		2
!	Major Ensemble or MUS 35213		1
	Piano Class Elective		1-2
	Kent Core Requirement		3
	Non-Music Electives		3
Credit Hours			14
Semester Five			
	CA 31300	MUSIC CAREER DEVELOPMENT AND ENTREPRENEURSHIP	2
!	MUS 21341	CONTEMPORARY POPULAR MUSIC THEORY	3
	MUS 34111	INTRODUCTION TO CONDUCTING	2
!	Composition or Applied Studio Musicianship Elective		2
!	Major Ensemble or MUS 35213		1
	Piano Class Elective		0-1
	Kent Core Requirement		3
	Non-Music Electives		1
Credit Hours			15
Semester Six			
!	Composition or Applied Studio Musicianship Elective		2
!	Major Ensemble or MUS 35213		1
	Kent Core Requirement		3
	Non-Music Electives		9
Credit Hours			15

### Semester Seven

MUS 36913	APPLIED STUDIO MUSICIANSHIP	2
or	or MUSIC RESEARCH (ELR)	
MUS 48598		
MUS 42165	HISTORY OF CONTEMPORARY POPULAR MUSIC (DIVD) (WIC)	3
!	Major Ensemble or MUS 35213	1
	Kent Core Requirement	3
	Non-Music Electives	7
Credit Hours		16

### Semester Eight

Successful completion of a major-field achievement test in music history and music theory.

!	Major Ensemble or MUS 35213	1
	Kent Core Requirement	3
	Non-Music Electives	10
Credit Hours		14
Minimum Total Credit Hours:		120

## Jazz Studies Concentration

This roadmap is a recommended semester-by-semester plan of study for this major. However, courses designated as critical (!) must be completed in the semester listed to ensure a timely graduation.

Semester One			Credits
!	MUS 11121	THEORY I	4
!	MUS 22111	THE UNDERSTANDING OF MUSIC (KFA)	3
	MUS 41341	JAZZ IMPROVISATION I	1
	MUS 45231	JAZZ ENSEMBLE	1
	or	or JAZZ COMBO DEVELOPMENT	
	MUS 45312	or NOVA JAZZ SINGERS	
	or		
	MUS 45313		
	UC 10097	DESTINATION KENT STATE: FIRST YEAR EXPERIENCE	1
	Applied Music Elective		2
	Kent Core Requirement		3
	Credit Hours		15
Semester Two			
!	MUS 11122	THEORY II	4
!	MUS 22121	MUSIC AS A WORLD PHENOMENON (DIVG) (KFA)	3
	MUS 45231	JAZZ ENSEMBLE	1
	or	or JAZZ COMBO DEVELOPMENT	
	MUS 45312	or NOVA JAZZ SINGERS	
	or		
	MUS 45313		
	Applied Music Elective		2
	Piano Class Elective		1
	Kent Core Requirement		3
	Credit Hours		14
Semester Three			
!	MUS 21111	THEORY III	4
	MUS 45231	JAZZ ENSEMBLE	1
	or	or JAZZ COMBO DEVELOPMENT	
	MUS 45312	or NOVA JAZZ SINGERS	
	or		
	MUS 45313		
	Piano Class Elective		1
	Kent Core Requirement		3
	Kent Core Requirement		3
	Non-Music Electives		3
	Credit Hours		15
Semester Four			
	MUS 17013	FUNDAMENTALS OF JAZZ PIANO	1
!	MUS 21112	THEORY IV	4
	MUS 41351	JAZZ IMPROVISATION II	1
	MUS 45231	JAZZ ENSEMBLE	1
	or	or JAZZ COMBO DEVELOPMENT	
	MUS 45312	or NOVA JAZZ SINGERS	
	or		
	MUS 45313		
	Kent Core Requirement		3
	Kent Core Requirement		3
	Non-Music Electives		3
	Credit Hours		16
Semester Five			
	CA 31300	MUSIC CAREER DEVELOPMENT AND ENTREPRENEURSHIP	2
	MUS 34111	INTRODUCTION TO CONDUCTING	2

MUS 42162	JAZZ STYLES AND ANALYSIS	3
MUS 45231	JAZZ ENSEMBLE	1
or	or JAZZ COMBO DEVELOPMENT	
MUS 45312	or NOVA JAZZ SINGERS	
or		
MUS 45313		
Kent Core Requirement		3
Kent Core Requirement		3
Non-Music Electives		1
Credit Hours		15
Semester Six		
MUS 41342	JAZZ COMPOSING AND ARRANGING	2
MUS 45231	JAZZ ENSEMBLE	1
or	or JAZZ COMBO DEVELOPMENT	
MUS 45312	or NOVA JAZZ SINGERS	
or		
MUS 45313		
Applied Music Elective		2
Kent Core Requirement		3
Non-Music Electives		6
Credit Hours		14
Semester Seven		
MUS 36011	APPLIED MUSIC - JAZZ	2
or	or MUSIC RESEARCH (ELR)	
MUS 48598		
MUS 45231	JAZZ ENSEMBLE	1
or	or JAZZ COMBO DEVELOPMENT	
MUS 45312	or NOVA JAZZ SINGERS	
or		
MUS 45313		
Kent Core Requirement		3
Non-Music Electives		10
Credit Hours		16
Semester Eight		
Successful completion of a major-field achievement test in music history and music theory.		
ENGR 31000	CULTURAL DYNAMICS TECHNOLOGY (DIVD) (WIC)	3
MUS 45231	JAZZ ENSEMBLE	1
or	or JAZZ COMBO DEVELOPMENT	
MUS 45312	or NOVA JAZZ SINGERS	
or		
MUS 45313		
Major Ensemble Elective		1
Non-Music Electives		10
Credit Hours		15
Minimum Total Credit Hours:		120

## Music - B.M.

### College of the Arts

School of Music

E101 Center for the Performing Arts

Kent Campus

330-672-2172

schoolofmusic@kent.edu

www.kent.edu/music

## Description

The Bachelor of Music degree in Music is a professional degree. The primary emphasis is on the development of the skills, concepts and sensitivity essential for those wishing to pursue music as a profession.

The Music major comprises the following concentrations:

- The **Composition** concentration provides preparation for graduate study in the field, a credential for private instruction and the ability to compose and use technology in a variety of musical styles.
- The **Instrumental Performance** concentration provides preparation for graduate study in the field, a credential for private instruction and the ability to perform as a soloist, in chamber music and in large ensembles. This program is available on the following instruments: violin, viola, violoncello, double bass, flute, oboe, clarinet, bassoon, saxophone, trumpet, horn, trombone, euphonium, tuba and percussion.
- The **Piano Performance** concentration provides preparation for graduate study in the field, a credential for private instruction and the ability to perform as a soloist, as an accompanist, in chamber music and in large ensembles.
- The **Voice Performance** concentration provides preparation for graduate study in the field, a credential for private instruction and the ability to perform as a soloist, in opera, in chamber music and in large ensembles.

### Fully Offered At:

- Kent Campus

## Accreditation

The B.M. degree in Music is accredited by the National Association of Schools of Music.

## Admission Requirements

The university affirmatively strives to provide educational opportunities and access to students with varied backgrounds, those with special talents and adult students who graduated from high school three or more years ago.

Admission to this major is selective. Students must audition before being admitted to the Music major. Inquiries can be directed to the coordinator of admissions and scholarships, School of Music, E-101 Music and Speech, Kent State University, Kent, OH 44242-0001 (or call 330-672-2172).

For more information on admissions, including additional requirements for some academic programs, visit the admissions website for new freshmen and the admissions website for transfer, transitioning and former students.

### English Language Proficiency Requirements for International Students:

All international students must provide proof of English language proficiency (unless they meet specific exceptions) by earning a minimum 525 TOEFL score (71 on the Internet-based version), minimum 75 MELAB score, minimum 6.0 IELTS score or minimum 48 PTE Academic score, or by completing the ELS level 112 Intensive Program. For more information on international admission, visit the Office of Global Education's admission website.

## Program Learning Outcomes

Graduates of these programs will be able to:

1. Demonstrate knowledge of music history and theory
2. Demonstrate beginning professional skills in recitals

## University Requirements

All students in a bachelor's degree program at Kent State University must complete the following university requirements for graduation.

**NOTE:** University requirements may be fulfilled in this program by specific course requirements. Please see Program Requirements for details.

Destination Kent State: First Year Experience	1
Course is not required for students with 25 transfer credits, excluding College Credit Plus, or age 21+ at time of admission.	
Diversity Domestic/Global (DIVD/DIVG)	2 courses
Students must successfully complete one domestic and one global course, of which one must be from the Kent Core.	
Experiential Learning Requirement (ELR)	varies
Students must successfully complete one course or approved experience.	
Kent Core (see table below)	36-37
Writing-Intensive Course (WIC)	1 course
Students must earn a minimum C grade in the course.	
Upper-Division Requirement	39 (or 42)
Students must successfully complete 39 upper-division (numbered 30000 to 49999) credit hours to graduate. Students in a B.A. and/or B.S. degree in the College of Arts and Sciences must complete 42 upper-division credit hours.	
Total Credit Hour Requirement	120
Some bachelor's degrees require students to complete more than 120 credit hours.	

## Kent Core Requirements

Kent Core Composition (KCMP)	6
Kent Core Mathematics and Critical Reasoning (KMCR)	3
Kent Core Humanities and Fine Arts (KHUM/KFA) (min one course each)	9
Kent Core Social Sciences (KSS) (must be from two disciplines)	6
Kent Core Basic Sciences (KBS/KLAB) (must include one laboratory)	6-7
Kent Core Additional (KADL)	6
<b>Total Credit Hours:</b>	<b>36-37</b>

## Program Requirements

### Major Requirements

Code	Title	Credit Hours
<b>Major Requirements (courses count in major GPA) (min C grade required in all courses)</b>		
MUS 11121	THEORY I <sup>1</sup>	4
MUS 11122	THEORY II <sup>1</sup>	4
MUS 21111	THEORY III <sup>1</sup>	4
MUS 21112	THEORY IV <sup>1</sup>	4



MUS 22111	THE UNDERSTANDING OF MUSIC (KFA) (music major section)	3	MUS 41131	KEYBOARD HARMONY <sup>1</sup>	3
MUS 22121	MUSIC AS A WORLD PHENOMENON (DIVG) (KFA) (music major section)	3	MUS 41141	SIXTEENTH-CENTURY COUNTERPOINT	3
MUS 32211	MUSIC HISTORY I	3	MUS 41151	EIGHTEENTH-CENTURY COUNTERPOINT <sup>1</sup>	3
MUS 32212	MUSIC HISTORY II (WIC)	3	MUS 41161	ADVANCED MUSICAL ANALYSIS	3
MUS 34111	INTRODUCTION TO CONDUCTING	2	MUS 41211	COMPOSITION	8
MUS 41112	WESTERN MUSIC SINCE 1945	1	MUS 41299	SENIOR PROJECT: MUSIC COMPOSITION (ELR)	2
MUS 41341	JAZZ IMPROVISATION I	1	MUS 41321	ORCHESTRATION	3
or MUS 48512	IMPROVISATION	1	MUS 48251	PEDAGOGY OF MUSIC THEORY <sup>1</sup>	2
Major Ensemble, choose from the following: <sup>2</sup>		8	MUS 44111	ADVANCED CHORAL CONDUCTING	3
MUS 45111	UNIVERSITY CHOIR		or MUS 44121	ADVANCED INSTRUMENTAL CONDUCTING	
MUS 45141	KENT STATE UNIVERSITY CHORALE		Music (MUS) Electives		2
MUS 45142	CORO CANTARE		Applied Music Electives, choose from the following: <sup>2</sup>		12
MUS 45143	CANTIQUÉ		MUS 36111/46111	APPLIED MUSIC-PIANO	
MUS 45212	ORCHESTRA		MUS 36311/46311	APPLIED MUSIC-VOICE	
MUS 45221	SYMPHONY BAND		MUS 36411/46411	APPLIED MUSIC-VIOLIN	
MUS 45223	WIND ENSEMBLE		MUS 36412/46412	APPLIED MUSIC-VIOLA	
<b>Additional Requirements (courses do not count in major GPA)</b>			MUS 36413/46413	APPLIED MUSIC-CELLO	
UC 10097	DESTINATION KENT STATE: FIRST YEAR EXPERIENCE	1	MUS 36414/46414	APPLIED MUSIC-DOUBLE BASS	
Kent Core Composition		6	MUS 36511/46511	APPLIED MUSIC-FLUTE	
Kent Core Mathematics and Critical Reasoning		3-5	MUS 36512/46512	APPLIED MUSIC-OBOE	
Kent Core Humanities		3	MUS 36513/46513	APPLIED MUSIC-CLARINET	
Kent Core Social Sciences (must be from two disciplines)		6	MUS 36514/46514	APPLIED MUSIC-BASSOON	
Kent Core Basic Sciences (must include one laboratory)		6-7	MUS 36515/46515	APPLIED MUSIC-SAXOPHONE	
Kent Core Additional		6	MUS 36611/46611	APPLIED MUSIC-TRUMPET	
<b>Concentration</b>			MUS 36612/46612	APPLIED MUSIC-HORN	
Choose from the following:		54	MUS 36613/46613	APPLIED MUSIC-TROMBONE	
Composition			MUS 36614/46614	APPLIED MUSIC-EUPHONIUM	
Instrumental Performance			MUS 36615/46615	APPLIED MUSIC-TUBA	
Piano Performance			MUS 36711/46711	APPLIED MUSIC-PERCUSSION	
Voice Performance			Minimum Total Credit Hours:		54
Minimum Total Credit Hours:		125			

<sup>1</sup> A minimum 3.000 GPA is required in music theory courses (MUS 11121, MUS 11122, MUS 21111, MUS 21112) in the Composition concentration.

<sup>2</sup> 8 separate semesters of major ensemble are required. Students must enroll in a major ensemble appropriate to their major performance area. Piano performance majors satisfy the eight-semester ensemble requirement as follows: 4 credit hours of MUS 45321, 2 credit hours of MUS 45311 and 2 credit hours selected from chamber music or a major vocal or instrumental ensemble or 1 credit hour selected from chamber music or a major vocal or instrumental ensemble and DAN 28010. Composition majors may use MUS 45271 for up to 4 semesters of the 8 semester requirement.

## Composition Concentration Requirements

Code	Title	Credit Hours
<b>Concentration Requirements (courses count in major GPA) (min C grade required in all courses)</b>		
CA 31300	MUSIC CAREER DEVELOPMENT AND ENTREPRENEURSHIP	2
MUS 21211	CLASS COMPOSITION I	2
MUS 21212	CLASS COMPOSITION II	2
MUS 31211	COMPOSITION	4

MUS 41131	KEYBOARD HARMONY <sup>1</sup>	3
MUS 41141	SIXTEENTH-CENTURY COUNTERPOINT	3
MUS 41151	EIGHTEENTH-CENTURY COUNTERPOINT <sup>1</sup>	3
MUS 41161	ADVANCED MUSICAL ANALYSIS	3
MUS 41211	COMPOSITION	8
MUS 41299	SENIOR PROJECT: MUSIC COMPOSITION (ELR)	2
MUS 41321	ORCHESTRATION	3
MUS 48251	PEDAGOGY OF MUSIC THEORY <sup>1</sup>	2
MUS 44111	ADVANCED CHORAL CONDUCTING	3
or MUS 44121	ADVANCED INSTRUMENTAL CONDUCTING	
Music (MUS) Electives		2
Applied Music Electives, choose from the following: <sup>2</sup>		12
MUS 36111/46111	APPLIED MUSIC-PIANO	
MUS 36311/46311	APPLIED MUSIC-VOICE	
MUS 36411/46411	APPLIED MUSIC-VIOLIN	
MUS 36412/46412	APPLIED MUSIC-VIOLA	
MUS 36413/46413	APPLIED MUSIC-CELLO	
MUS 36414/46414	APPLIED MUSIC-DOUBLE BASS	
MUS 36511/46511	APPLIED MUSIC-FLUTE	
MUS 36512/46512	APPLIED MUSIC-OBOE	
MUS 36513/46513	APPLIED MUSIC-CLARINET	
MUS 36514/46514	APPLIED MUSIC-BASSOON	
MUS 36515/46515	APPLIED MUSIC-SAXOPHONE	
MUS 36611/46611	APPLIED MUSIC-TRUMPET	
MUS 36612/46612	APPLIED MUSIC-HORN	
MUS 36613/46613	APPLIED MUSIC-TROMBONE	
MUS 36614/46614	APPLIED MUSIC-EUPHONIUM	
MUS 36615/46615	APPLIED MUSIC-TUBA	
MUS 36711/46711	APPLIED MUSIC-PERCUSSION	

Minimum Total Credit Hours: 54

<sup>1</sup> In addition to completing the required courses, students in the Music Composition concentration must do the following prior to taking MUS 41131, MUS 41151 and MUS 48251: (1) pass a theory proficiency exam, incorporating score reading, sight singing, keyboard harmony and written analysis; and (2) receive approval from the theory and composition faculty based on a portfolio of compositions.

<sup>2</sup> Applied music (6 semesters and 12 credit hours): Students whose main instrument is piano may fulfill this requirement with piano only or can include one or two semesters with a different instrument. Students whose main instrument is not piano must take two semesters of Applied Music-Piano. A piano placement test or piano audition is required and additional remedial courses may be necessary. Students must meet the 46000-entry-level prior to graduation.

## Instrumental Performance Concentration Requirements

Code	Title	Credit Hours
<b>Concentration Requirements (courses count in major GPA) (min C grade required in all courses)</b>		
CA 31300	MUSIC CAREER DEVELOPMENT AND ENTREPRENEURSHIP	2
MUS 42162	JAZZ STYLES AND ANALYSIS	3
or MUS 42221	SYMPHONIC LITERATURE	
MUS 44121	ADVANCED INSTRUMENTAL CONDUCTING	3
MUS 45311	CHAMBER MUSIC	4

MUS 48257	PEDAGOGY-INSTRUMENTAL	2
Music (MUS) Electives		4
Applied Music Electives, choose from the following: <sup>1</sup>		32
MUS 36411/46411	APPLIED MUSIC-VIOLIN	
MUS 36412/46412	APPLIED MUSIC-VIOLA	
MUS 36413/46413	APPLIED MUSIC-CELLO	
MUS 36414/46414	APPLIED MUSIC-DOUBLE BASS	
MUS 36511/46511	APPLIED MUSIC-FLUTE	
MUS 36512/46512	APPLIED MUSIC-OBOE	
MUS 36513/46513	APPLIED MUSIC-CLARINET	
MUS 36514/46514	APPLIED MUSIC-BASSOON	
MUS 36515/46515	APPLIED MUSIC-SAXOPHONE	
MUS 36611/46611	APPLIED MUSIC-TRUMPET	
MUS 36612/46612	APPLIED MUSIC-HORN	
MUS 36613/46613	APPLIED MUSIC-TROMBONE	
MUS 36614/46614	APPLIED MUSIC-EUPHONIUM	
MUS 36615/46615	APPLIED MUSIC-TUBA	
MUS 36711/46711	APPLIED MUSIC-PERCUSSION	
Piano Elective, choose from the following:		4
MUS 27111	PIANO CLASS III	
MUS 27112	PIANO CLASS IV	
MUS 36111	APPLIED MUSIC-PIANO	
MUS 46111	APPLIED MUSIC-PIANO	

Minimum Total Credit Hours: 54

<sup>1</sup> Students must complete 16 credits at the 36000 level and 16 credits at the 46000 level. Applied music courses are based on instrument of acceptance into the Instrumental Performance concentration. The 46000-level may be taken following a successful 46000-level barrier exam.

## Piano Performance Concentration Requirements

Code	Title	Credit Hours
<b>Concentration Requirements (courses count in major GPA) (min C grade required in all courses)</b>		
MUS 36111	APPLIED MUSIC-PIANO	16
MUS 41131	KEYBOARD HARMONY	3
MUS 41151	EIGHTEENTH-CENTURY COUNTERPOINT	3
MUS 42232	PIANO LITERATURE I	2
MUS 42242	PIANO LITERATURE II	2
MUS 46111	APPLIED MUSIC-PIANO <sup>1</sup>	16
MUS 48311	PIANO PEDAGOGY I	2
MUS 48312	PIANO PEDAGOGY II	2
MUS 48221	ELEMENTS OF ACCOMPANYING I	2
MUS 48222	ELEMENTS OF ACCOMPANYING II	2
Music (MUS) Electives		4
Minimum Total Credit Hours:		54

<sup>1</sup> The 46000-level courses may be taken following a successful 46000-level barrier exam.

## Voice Performance Concentration Requirements

Code	Title	Credit Hours
<b>Concentration Requirements (courses count in major GPA) (min C grade required in all courses)</b>		
MUS 18611	SINGER'S DICTION I	1

MUS 18612	SINGER'S DICTION II	1
MUS 36311	APPLIED MUSIC-VOICE	16
MUS 42251	SONG LITERATURE	3
MUS 42261	OPERA LITERATURE	3
MUS 45131	OPERA: SINGER-ACTOR TECHNIQUES	2
MUS 46311	APPLIED MUSIC-VOICE <sup>1</sup>	16
MUS 48241	VOICE PEDAGOGY	2
Piano Electives, choose from the following:		6
MUS 27111	PIANO CLASS III	
MUS 27112	PIANO CLASS IV	
MUS 36111	APPLIED MUSIC-PIANO	
MUS 46111	APPLIED MUSIC-PIANO	
Language Elective, choose from the following:		4
FR 13201	ELEMENTARY FRENCH I	
FR 13202	ELEMENTARY FRENCH II	
GER 11201	ELEMENTARY GERMAN I	
GER 11202	ELEMENTARY GERMAN II	
ITAL 15201	ELEMENTARY ITALIAN I	
ITAL 15202	ELEMENTARY ITALIAN II	

Minimum Total Credit Hours: 54

<sup>1</sup> The 46000-level courses may be taken following a successful 46000-level barrier exam.

## Graduation Requirements

Minimum Major GPA	Minimum Overall GPA
2.250	2.000

- Completion of the Major Field Test (MFT) in music history and music theory during senior year (specific score level achievement is not required)
- Minimum C grade required in all music courses
- Attendance at minimum 84 concerts or recitals for students who begin the program as first semester freshmen (students who transferred from a non-music program or university must attend an average of 10 music concerts or recitals for semesters of full time enrollment)
- Students in the Music Composition concentration must pass a theory/composition piano proficiency exam as a prerequisite for required courses MUS 41131, MUS 41151 and MUS 48251; and present a senior recital.
- Students in the Instrumental Performance, Piano Performance and Voice Performance concentrations must complete one-half junior and one full senior recital, and register for applied music courses (46000 level) during a degree recital semester. The senior recital may be used to satisfy the Experiential Learning Requirement (ELR).
- MUS 11110, MUS 11111, MUS 16914 and MUS 16915 will not count as credit for graduation in this program.

## Roadmaps

- Composition Concentration
- Instrumental Performance Concentration
- Piano Performance Concentration
- Voice Performance Concentration



## COMPOSITION CONCENTRATION

This roadmap is a recommended semester-by-semester plan of study for this major. However, courses designated as critical (!) must be completed in the semester listed to ensure a timely graduation.

Semester One			Credits
!	MUS 11121	THEORY I	4
	MUS 21211	CLASS COMPOSITION I	2
!	MUS 22111	THE UNDERSTANDING OF MUSIC (KFA)	3
	MUS 36XXX	Applied Music	2
	UC 10097	DESTINATION KENT STATE: FIRST YEAR EXPERIENCE	1
!	Major Ensemble		1
	Kent Core Requirement		3
Credit Hours			16
Semester Two			
!	MUS 11122	THEORY II	4
	MUS 21212	CLASS COMPOSITION II	2
!	MUS 22121	MUSIC AS A WORLD PHENOMENON (DIVG) (KFA)	3
	MUS 36XXX	Applied Music	2
!	Major Ensemble		1
	Kent Core Requirement		3
Credit Hours			15
Semester Three			
!	MUS 21111	THEORY III	4
	MUS 31211	COMPOSITION	2
	MUS 36XXX	Applied Music	2
!	Major Ensemble		1
	Kent Core Requirement		3
	Kent Core Requirement		3
Credit Hours			15
Semester Four			
!	MUS 21112	THEORY IV	4
	MUS 31211	COMPOSITION	2
	MUS 36XXX	Applied Music	2
	Music (MUS) Elective		1
!	Major Ensemble		1
	Kent Core Requirement		3
	Kent Core Requirement		3
Credit Hours			16
Semester Five			
	CA 31300	MUSIC CAREER DEVELOPMENT AND ENTREPRENEURSHIP	2
!	MUS 32211	MUSIC HISTORY I	3
	MUS 34111	INTRODUCTION TO CONDUCTING	2
	MUS 36XXX	Applied Music	2
	MUS 41131	KEYBOARD HARMONY	3
	MUS 41211	COMPOSITION	2
	MUS 48251	PEDAGOGY OF MUSIC THEORY	2
!	Major Ensemble		1
Credit Hours			17
Semester Six			
!	MUS 32212	MUSIC HISTORY II (WIC)	3
	MUS 36XXX	Applied Music	2
	MUS 41211	COMPOSITION	2

MUS 41341	JAZZ IMPROVISATION I	1	
or	or IMPROVISATION		
MUS 48512			
MUS 44111	ADVANCED CHORAL CONDUCTING	3	
or	or ADVANCED INSTRUMENTAL CONDUCTING		
MUS 44121			
!	Major Ensemble	1	
	Kent Core Requirement	3	
Credit Hours		15	
Semester Seven			
!	MUS 41112	WESTERN MUSIC SINCE 1945	1
	MUS 41141	SIXTEENTH-CENTURY COUNTERPOINT	3
	MUS 41211	COMPOSITION	2
	MUS 41321	ORCHESTRATION	3
!	Major Ensemble	1	
	Kent Core Requirement	3	
	Kent Core Requirement	3	
Credit Hours		16	
Semester Eight			
Note: successful completion of a major-field test in music history and music theory.			
MUS 41151	EIGHTEENTH-CENTURY COUNTERPOINT	3	
MUS 41161	ADVANCED MUSICAL ANALYSIS	3	
MUS 41211	COMPOSITION	2	
!	MUS 41299	SENIOR PROJECT: MUSIC COMPOSITION (ELR)	2
	Music (MUS) Elective	1	
!	Major Ensemble	1	
	Kent Core Requirement	3	
Credit Hours		15	
Minimum Total Credit Hours:		125	

## Instrumental Performance Concentration

This roadmap is a recommended semester-by-semester plan of study for this major. However, courses designated as critical (!) must be completed in the semester listed to ensure a timely graduation.

Semester One			Credits
!	MUS 11121	THEORY I	4
!	MUS 22111	THE UNDERSTANDING OF MUSIC (KFA)	3
!	MUS 36XXX	Applied Music	4
	UC 10097	DESTINATION KENT STATE: FIRST YEAR EXPERIENCE	1
!	Major Ensemble		1
	Kent Core Requirement		3
Credit Hours			16
Semester Two			
!	MUS 11122	THEORY II	4
!	MUS 22121	MUSIC AS A WORLD PHENOMENON (DIVG) (KFA)	3
!	MUS 36XXX	Applied Music	4
!	Major Ensemble		1
	Kent Core Requirement		3
Credit Hours			15
Semester Three			
!	MUS 21111	THEORY III	4
!	MUS 36XXX	Applied Music	4
	MUS 45311	CHAMBER MUSIC	1
	Piano Elective		2
!	Major Ensemble		1
	Kent Core Requirement		3
Credit Hours			15
Semester Four			
!	MUS 21112	THEORY IV	4
!	MUS 36XXX	Applied Music	4
	MUS 45311	CHAMBER MUSIC	1
!	Major Ensemble		1
	Piano Elective		2
	Kent Core Requirement		3
Credit Hours			15
Semester Five			
	CA 31300	MUSIC CAREER DEVELOPMENT AND ENTREPRENEURSHIP	2
!	MUS 32211	MUSIC HISTORY I	3
	MUS 34111	INTRODUCTION TO CONDUCTING	2
!	MUS 46XXX	Applied Music	4
!	Major Ensemble		1
	Kent Core Requirement		3
	Kent Core Requirement		3
Credit Hours			18
Semester Six			
!	MUS 32212	MUSIC HISTORY II (WIC)	3
	MUS 41341	JAZZ IMPROVISATION I	1
	or	or IMPROVISATION	
	MUS 48512		
	MUS 44121	ADVANCED INSTRUMENTAL CONDUCTING	3
!	MUS 46XXX	Applied Music	4
!	Major Ensemble		1
	Kent Core Requirement		3
Credit Hours			15

### Semester Seven

!	MUS 41112	WESTERN MUSIC SINCE 1945	1
	MUS 42162	JAZZ STYLES AND ANALYSIS	3
	or	or SYMPHONIC LITERATURE	
	MUS 42221		
	MUS 45311	CHAMBER MUSIC	1
!	MUS 46XXX	Applied Music	4
	MUS 48257	PEDAGOGY-INSTRUMENTAL	2
!	Major Ensemble		1
	Music (MUS) Elective		4
Credit Hours			16

### Semester Eight

Note: successful completion of a major-field test in music history and music theory.

	MUS 45311	CHAMBER MUSIC	1
!	MUS 46XXX	Applied Music	4
!	Major Ensemble		1
	Kent Core Requirement		3
	Kent Core Requirement		3
	Kent Core Requirement		3
Credit Hours			15
Minimum Total Credit Hours:			125



## Piano Performance Concentration

This roadmap is a recommended semester-by-semester plan of study for this major. However, courses designated as critical (!) must be completed in the semester listed to ensure a timely graduation.

Semester One			Credits
!	MUS 11121	THEORY I	4
!	MUS 22111	THE UNDERSTANDING OF MUSIC (KFA)	3
!	MUS 36111	APPLIED MUSIC-PIANO	4
	UC 10097	DESTINATION KENT STATE: FIRST YEAR EXPERIENCE	1
!	Major Ensemble		1
	Kent Core Requirement		3
Credit Hours			16
Semester Two			
!	MUS 11122	THEORY II	4
!	MUS 22121	MUSIC AS A WORLD PHENOMENON (DIVG) (KFA)	3
!	MUS 36111	APPLIED MUSIC-PIANO	4
!	Major Ensemble		1
	Kent Core Requirement		3
Credit Hours			15
Semester Three			
!	MUS 21111	THEORY III	4
!	MUS 36111	APPLIED MUSIC-PIANO	4
!	Major Ensemble		1
	Kent Core Requirement		3
	Kent Core Requirement		3
Credit Hours			15
Semester Four			
!	MUS 21112	THEORY IV	4
!	MUS 36111	APPLIED MUSIC-PIANO	4
!	Major Ensemble		1
	Music (MUS) Elective		1
	Kent Core Requirement		3
	Kent Core Requirement		3
Credit Hours			16
Semester Five			
!	MUS 32211	MUSIC HISTORY I	3
!	MUS 46111	APPLIED MUSIC-PIANO	4
	MUS 34111	INTRODUCTION TO CONDUCTING	2
	MUS 42232	PIANO LITERATURE I	2
	Music (MUS) Elective		1
!	Major Ensemble		1
	Kent Core Requirement		3
Credit Hours			16
Semester Six			
!	MUS 32212	MUSIC HISTORY II (WIC)	3
!	MUS 41151	EIGHTEENTH-CENTURY COUNTERPOINT	3
	MUS 42242	PIANO LITERATURE II	2
!	MUS 46111	APPLIED MUSIC-PIANO	4
!	Major Ensemble		1
	Kent Core Requirement		3
Credit Hours			16
Semester Seven			
!	MUS 41112	WESTERN MUSIC SINCE 1945	1
!	MUS 46111	APPLIED MUSIC-PIANO	4
	MUS 41131	KEYBOARD HARMONY	3

MUS 41341	JAZZ IMPROVISATION I	1	
or	or IMPROVISATION		
MUS 48512			
MUS 48221	ELEMENTS OF ACCOMPANYING I	2	
MUS 48311	PIANO PEDAGOGY I	2	
	Music (MUS) Elective	2	
!	Major Ensemble	1	
Credit Hours		16	
Semester Eight			
Note: successful completion of a major-field test in music history and music theory.			
!	MUS 46111	APPLIED MUSIC-PIANO	4
	MUS 48222	ELEMENTS OF ACCOMPANYING II	2
	MUS 48312	PIANO PEDAGOGY II	2
!	Major Ensemble		1
	Kent Core Requirement		3
	Kent Core Requirement		3
Credit Hours		15	
Minimum Total Credit Hours:		125	

## Voice Performance Concentration

This roadmap is a recommended semester-by-semester plan of study for this major. However, courses designated as critical (!) must be completed in the semester listed to ensure a timely graduation.

Semester One			Credits
!	MUS 11121	THEORY I	4
!	MUS 22111	THE UNDERSTANDING OF MUSIC (KFA)	3
	MUS 36311	APPLIED MUSIC-VOICE	4
	UC 10097	DESTINATION KENT STATE: FIRST YEAR EXPERIENCE	1
!	Major Ensemble		1
	Kent Core Requirement		3
Credit Hours			16
Semester Two			
!	MUS 11122	THEORY II	4
!	MUS 22121	MUSIC AS A WORLD PHENOMENON (DIVG) (KFA)	3
	MUS 36311	APPLIED MUSIC-VOICE	4
!	Major Ensemble		1
	Language Requirements		4
Credit Hours			16
Semester Three			
	MUS 18611	SINGER'S DICTION I	1
!	MUS 21111	THEORY III	4
!	MUS 36311	APPLIED MUSIC-VOICE	4
!	Major Ensemble		1
	Piano courses		2
	Kent Core Requirement		3
Credit Hours			15
Semester Four			
	MUS 18612	SINGER'S DICTION II	1
!	MUS 21112	THEORY IV	4
!	MUS 36311	APPLIED MUSIC-VOICE	4
!	Major Ensemble		1
	Piano courses		2
	Kent Core Requirement		3
Credit Hours			15
Semester Five			
!	MUS 32211	MUSIC HISTORY I	3
	MUS 34111	INTRODUCTION TO CONDUCTING	2
	MUS 42261	OPERA LITERATURE	3
!	MUS 46311	APPLIED MUSIC-VOICE	4
!	Major Ensemble		1
	Piano courses		2
Credit Hours			15
Semester Six			
!	MUS 32212	MUSIC HISTORY II (WIC)	3
	MUS 41341	JAZZ IMPROVISATION I or MUS 48512	1
	MUS 42251	SONG LITERATURE	3
	MUS 45131	OPERA: SINGER-ACTOR TECHNIQUES	1
!	MUS 46311	APPLIED MUSIC-VOICE	4
!	Major Ensemble		1
	Kent Core Requirement		3
Credit Hours			16

### Semester Seven

!	MUS 41112	WESTERN MUSIC SINCE 1945	1
	MUS 45131	OPERA: SINGER-ACTOR TECHNIQUES	1
!	MUS 46311	APPLIED MUSIC-VOICE	4
!	Major Ensemble		1
	Kent Core Requirement		3
	Kent Core Requirement		3
	Kent Core Requirement		3
Credit Hours			16

### Semester Eight

Note: successful completion of a major-field test in music history and music theory.

!	MUS 46311	APPLIED MUSIC-VOICE	4
!	MUS 48241	VOICE PEDAGOGY	2
!	Major Ensemble		1
	Kent Core Requirement		3
	Kent Core Requirement		3
	Kent Core Requirement		3
Credit Hours			16
Minimum Total Credit Hours:			125

## Music - Minor

### College of the Arts

School of Music  
E101 Center for the Performing Arts  
Kent Campus  
330-672-2172  
schoolofmusic@kent.edu  
www.kent.edu/music

## Description

The Music minor provides a basic understanding of music literature, theory and performance. Study on voice or selected instruments is available to students in other fields who desire private instruction in addition to ensemble participation.

### Fully Offered At:

- Kent Campus
- Stark Campus

## Admission Requirements

Admission to a minor is open to students declared in a bachelor's degree, the A.A.B. or A.A.S. degree or the A.T.S. degree (not Individualized Program major). Students declared only in the A.A. or A.S. degree or the A.T.S. degree in Individualized Program may not declare a minor. Students may not pursue a minor and a major in the same discipline.

To declare the Music minor, students must complete theory placement test and audition in piano, voice or on a traditional orchestral/band instrument.

## Minor Requirements

Code	Title	Credit Hours
<b>Minor Requirements (min C grade required in all MUS courses)</b>		
MUS 11121	THEORY I	4

MUS 11122	THEORY II	4
MUS 22111	THE UNDERSTANDING OF MUSIC (KFA) (music major section)	3
Applied Music 36000-level courses (repeated for 2 semesters)		4
Music Major Ensemble Electives (repeated for 2 semesters) <sup>1</sup>		2
Music (MUS) Electives (number of elective credit hours depends on meeting minimum 21 total credit hours) <sup>2</sup>		0-2
Minor Electives, choose from the following:		2-4
CA 31300	MUSIC CAREER DEVELOPMENT AND ENTREPRENEURSHIP	
MUS 18611	SINGER'S DICTION I	
MUS 18612	SINGER'S DICTION II	
MUS 21111	THEORY III	
MUS 22121	MUSIC AS A WORLD PHENOMENON (DIVG) (KFA)	
MUS 32211	MUSIC HISTORY I	
MUS 32212	MUSIC HISTORY II (WIC)	
MUS 42111	AFRICAN MUSIC AND CULTURES	
MUS 42131	AMERICA'S MUSIC	
MUS 42161	HISTORY OF JAZZ (DIVD)	
MUS 42101	ROOTS OF ROCK	
Minimum Total Credit Hours:		21

<sup>1</sup> Major ensembles include: MUS 45111, MUS 45121, MUS 45141, MUS 45142, MUS 45143, MUS 45212, MUS 45221 and MUS 45223.

<sup>2</sup> Music electives may include additional applied music, major or chamber ensembles or any other music courses for which the students have fulfilled the prerequisite.

## Graduation Requirements

Minimum Minor GPA	Minimum Overall GPA
2.250	2.000

- Minimum C grade is required in all courses for the minor.
- Transfer students must complete a minimum of 11 credit hours in music courses at Kent State University, including one semester of applied music and one semester of a major ensemble.
- MUS 11110, MUS 11111, MUS 16914 and MUS 16915 will not count as credit for graduation in this program.
- Minimum 6 credit hours in the minor must be upper-division coursework (30000 and 40000 level).
- Minimum 6 credit hours in the minor must be outside of the course requirements for any major or other minor the student is pursuing.
- Minimum 50 percent of the total credit hours for the minor must be taken at Kent State (in residence).

## Music Composition - M.A.

### College of the Arts

School of Music

E101 Center for the Performing Arts

Kent Campus

330-672-2172

schoolofmusic@kent.edu

www.kent.edu/music

## Description

The Master of Arts degree in Music Composition is designed to advance the music composition creative skills of advanced students and to prepare them for admission to doctoral study. The program emphasizes mastery of composition of large-scale works for media, including orchestra, choir, band and/or chamber music ensembles. Based on a solid undergraduate music degree, the M.A. degree further develops abilities in music theory, including analytical, aural, written, keyboard and pedagogical skills. The program further develops breadth and depth in the area of Western music history and literature.

## Fully Offered At:

- Kent Campus

## Accreditation

National Association of Schools of Music

## Admission Requirements

- Bachelor's degree from an accredited college or university for unconditional admission
- Minimum 3.000 undergraduate GPA on a 4.000 point scale for unconditional admission
- Official transcripts(s)
- Résumé
- Goal statement(s)
- Portfolio of original compositions
- Three letters of recommendation
- English language proficiency - all international students must provide proof of English language proficiency (unless they meet specific exceptions) by earning one of the following:
  - Minimum 525 TOEFL PBT score (paper-based version)
  - Minimum 71 TOEFL IBT score (Internet-based version)
  - Minimum 74 MELAB score
  - Minimum 6.0 IELTS score
  - Minimum 50 PTE score
  - Minimum 100 Duolingo test score

For more information about graduate admissions, please visit the Graduate Studies admission website. For more information on international admission, visit the Office of Global Education's admission website.

## Program Learning Outcomes

1. Compile a body of completed compositions.
2. Demonstrate and apply compositional techniques for creation of new works including musical style and structure.
3. Analyze music from a wide range of styles and style periods and communicate results in written and oral formats.
4. Recognize, identify and analyze representative literature from different historical periods, countries and composers.
5. Communicate knowledge of composition, theory and other aspects of music as would be done in classroom and private teaching.

## Program Requirements

### Major Requirements

Code	Title	Credit Hours
<b>Major Requirements</b>		
MUS 58251	PEDAGOGY OF MUSIC THEORY	2
MUS 61211	COMPOSITION (repeated)	8
MUS 62411	MUSIC BIBLIOGRAPHY AND RESEARCH METHODS	2
MUS 68199	THESIS I <sup>1</sup>	6
Music (MUS) Electives		0-2
Music Ensemble		2
Music History Electives, choose from the following:		4-6
MUS 52131	AMERICA'S MUSIC	
MUS 52161	HISTORY OF JAZZ	
MUS 52171	MUSIC FROM WORLD CULTURES	
MUS 62511	MUSIC HISTORY I	
MUS 62521	MUSIC HISTORY II	
MUS 62531	MUSIC HISTORY III	
MUS 62541	MUSIC HISTORY IV	
Music Theory Electives, choose from the following: <sup>2</sup>		6-7
MUS 51141	16TH-CENTURY COUNTERPOINT	
MUS 51151	18TH-CENTURY COUNTERPOINT	
MUS 61131	SCHENKERIAN ANALYSIS	
MUS 61171	ANALYTICAL TECHNIQUES I	
MUS 61172	ANALYTICAL TECHNIQUES II	
MUS 61173	WORLD MUSIC ANALYSIS	
MUS 61181	POST-TONAL THEORY	
MUS 61191	SEMINAR IN MUSIC SINCE 1900	
Minimum Total Credit Hours:		32

<sup>1</sup> Students writing a thesis must pass a final oral examination covering the thesis and the student's major area of study. The final oral examination may be attempted two times.

<sup>2</sup> Selection of music theory course is based on students' result from the theory placement exam. In the case of the exam results placing a student into MUS 41111, the undergraduate course will not count towards the M.A. degree and must be taken in addition to the graduate-level music theory requirements. MUS 61171 and MUS 61172 may be required.

## Music Education - B.M.

### College of the Arts

School of Music  
E101 Center for the Performing Arts  
Kent Campus  
330-672-2172  
schoolofmusic@kent.edu  
www.kent.edu/music

### Description

The Bachelor of Music degree in Music Education prepares students for Ohio licensure to teach music in grades K-12 in choral general and instrumental music. The program includes studies in jazz, folk, musical

theatre, world music and music technology, while providing a strong grounding in Western art music history, theory and performance.

The Music Education major comprises the following concentrations:

- Choral General
- Instrumental

### Fully Offered At:

- Kent Campus

### Accreditation

The B.M. degree in Music Education is accredited by the National Association of Schools of Music.

### Admission Requirements

The university affirmatively strives to provide educational opportunities and access to students with varied backgrounds, those with special talents and adult students who graduated from high school three or more years ago.

Admission to this major is selective. Students must audition before being admitted to the Music major. Inquiries can be directed to the coordinator of admissions and scholarships, School of Music, E-101 Music and Speech, Kent State University, Kent, OH 44242-0001 (or call 330-672-2172).

For more information on admissions, including additional requirements for some academic programs, visit the admissions website for new freshmen and the admissions website for transfer, transitioning and former students.

### English Language Proficiency Requirements for International Students:

All international students must provide proof of English language proficiency (unless they meet specific exceptions) by earning a minimum 525 TOEFL score (71 on the Internet-based version), minimum 75 MELAB score, minimum 6.0 IELTS score or minimum 48 PTE Academic score, or by completing the ELS level 112 Intensive Program. For more information on international admission, visit the Office of Global Education's admission website.

### Program Learning Outcomes

Graduates of the program will be able to:

- Successfully meet all requirements for state licensure.

### University Requirements

All students in a bachelor's degree program at Kent State University must complete the following university requirements for graduation.

**NOTE:** University requirements may be fulfilled in this program by specific course requirements. Please see Program Requirements for details.

Destination Kent State: First Year Experience	1
Course is not required for students with 25 transfer credits, excluding College Credit Plus, or age 21+ at time of admission.	
Diversity Domestic/Global (DIVD/DIVG)	2 courses

Students must successfully complete one domestic and one global course, of which one must be from the Kent Core.	
Experiential Learning Requirement (ELR)	varies
Students must successfully complete one course or approved experience.	
Kent Core (see table below)	36-37
Writing-Intensive Course (WIC)	1 course
Students must earn a minimum C grade in the course.	
Upper-Division Requirement	39 (or 42)
Students must successfully complete 39 upper-division (numbered 30000 to 49999) credit hours to graduate. Students in a B.A. and/or B.S. degree in the College of Arts and Sciences must complete 42 upper-division credit hours.	
Total Credit Hour Requirement	120
Some bachelor's degrees require students to complete more than 120 credit hours.	

## Kent Core Requirements

Kent Core Composition (KCOMP)	6
Kent Core Mathematics and Critical Reasoning (KMCR)	3
Kent Core Humanities and Fine Arts (KHUM/KFA) (min one course each)	9
Kent Core Social Sciences (KSS) (must be from two disciplines)	6
Kent Core Basic Sciences (KBS/KLAB) (must include one laboratory)	6-7
Kent Core Additional (KADL)	6
<b>Total Credit Hours:</b>	<b>36-37</b>

## Program Requirements

### Major Requirements

Code	Title	Credit Hours
<b>Major Requirements (courses count in major GPA) (min C grade is required in all courses)</b>		
MUS 11121	THEORY I	4
MUS 11122	THEORY II	4
MUS 21111	THEORY III	4
MUS 21112	THEORY IV	4
MUS 22111	THE UNDERSTANDING OF MUSIC (KFA) (music major section)	3
MUS 22121	MUSIC AS A WORLD PHENOMENON (DIVG) (KFA) (music major section)	3
MUS 23241	MUSIC TEACHING AS A PROFESSION	2
MUS 32211	MUSIC HISTORY I	3
MUS 32212	MUSIC HISTORY II (WIC)	3
MUS 33214	MUSIC TECHNOLOGY FOR MUSIC EDUCATORS	1
MUS 33314	PROGRESSIVE AND VERNACULAR MUSIC METHODS	2
MUS 34111	INTRODUCTION TO CONDUCTING	2
MUS 41112	WESTERN MUSIC SINCE 1945	1
MUS 42357	STUDENT TEACHING (ELR)	9
MUS 49525	SEMINAR FOR STUDENT TEACHING (ELR)	3
Applied Music Electives (MUS 36000 level) <sup>1</sup>		8
Applied Music Electives (MUS 46000 level) <sup>1</sup>		6
Major Ensemble, choose from the following: <sup>2</sup>		7
MUS 45111	UNIVERSITY CHOIR	
MUS 45141	KENT STATE UNIVERSITY CHORALE	

MUS 45142	CORO CANTARE	
MUS 45143	CANTIQUÉ	
MUS 45212	ORCHESTRA	
MUS 45221	SYMPHONY BAND	
MUS 45223	WIND ENSEMBLE	
<b>Additional Requirements (courses do not count in major GPA)</b>		
CI 47330	READING AND WRITING IN ADOLESCENCE/ADULTHOOD (min C grade)	3
CULT 29535	EDUCATION IN A DEMOCRATIC SOCIETY (min C grade)	3
EPSY 29525	EDUCATIONAL PSYCHOLOGY (min C grade)	3
PSYC 11762	GENERAL PSYCHOLOGY (DIVD) (KSS)	3
PHIL 11001	INTRODUCTION TO PHILOSOPHY (DIVG) (KHUM)	3
or PHIL 21001	INTRODUCTION TO ETHICS (DIVG) (KHUM)	
SPED 23000	INTRODUCTION TO EXCEPTIONALITIES (DIVD) (min C grade)	3
UC 10097	DESTINATION KENT STATE: FIRST YEAR EXPERIENCE	1
Kent Core Composition (min C grade) <sup>3</sup>		6
Kent Core Mathematics and Critical Reasoning		3
Kent Core Social Sciences (must be from two disciplines)		3
Kent Core Basic Sciences (must include one laboratory)		6-7
Kent Core Additional		6
<b>Concentrations</b>		
Choose from the following:		20
Choral General		
Instrumental		
Minimum Total Credit Hours:		132

- Applied music (7 semesters and 14 total credits: 4 semesters and 8 credits at 36000 level, 3 semesters and 6 credits at 46000 level) based on instrument of acceptance into the music education major. The 46000 level can be taken following a successful 46000 level barrier exam. The Choral General Concentration is for guitar, voice and piano principals. Piano and guitar principals with significant instrumental background may elect the Instrumental Concentration with the approval of the Coordinator of Music Education. All other students use the Instrumental Concentration.
- Major ensemble (7 separate semesters): Students must enroll in a major ensemble appropriate to their major performance area. Students in the Choral General concentration should choose choral based courses, students in Instrumental concentration should choose the instrument based courses. Guitar principals may elect MUS 45231 or MUS 45312 for a total of two semesters to replace major ensembles.
- All courses in the Kent Core Composition must be completed with a minimum C grade.

### Choral/General Concentration Requirements

Code	Title	Credit Hours
<b>Concentration Requirements (courses count in major GPA) (min C grade required in all courses)</b>		
MUS 34211	ELEMENTARY AND SECONDARY GENERAL MUSIC	2
MUS 34212	ELEMENTARY AND SECONDARY CHORAL MUSIC	2



MUS 36111	APPLIED MUSIC-PIANO <sup>1</sup>	2
or MUS 36311	APPLIED MUSIC-VOICE	
MUS 37113	PIANO SKILLS FOR THE CHORAL/GENERAL MUSIC EDUCATOR	2
MUS 43243	CONTEMPORARY CHORAL METHODS IN THE SCHOOLS	3
MUS 44111	ADVANCED CHORAL CONDUCTING	3
MUS 45313	NOVA JAZZ SINGERS <sup>2</sup>	1
MUS 47811	INSTRUMENT CLASS FOR THE CHORAL/GENERAL MUSIC EDUCATOR	1
MUS 48241	VOICE PEDAGOGY	2
MUS 48231	INSTRUMENTAL PEDAGOGY FOR THE CHORAL GENERAL MUSIC EDUCATOR	2

Minimum Total Credit Hours: 20

<sup>1</sup> Voice principals take MUS 36111. Enrollment based on placement test; additional remedial courses may be required. Piano principals take MUS 36311. Enrollment based on audition; MUS 47311 may be required as a remedial course. Guitar principals may take either course, remedial courses may be required.

<sup>2</sup> Piano majors may take MUS 45231 with approval.

## Instrumental Concentration Requirements

Code	Title	Credit Hours
<b>Concentration Requirements (courses count in major GPA) (min C grade required in all courses)</b>		
MUS 37114	PIANO SKILLS FOR THE INSTRUMENTAL MUSIC EDUCATOR	1
MUS 43241	MARCHING BAND TECHNIQUES AND LITERATURE	1
MUS 43245	JAZZ ENSEMBLE TECHNIQUES AND LITERATURE	1
MUS 44121	ADVANCED INSTRUMENTAL CONDUCTING	3
MUS 44211	INSTRUMENTAL METHODS I	2
MUS 44212	INSTRUMENTAL METHODS II	2
MUS 45231	JAZZ ENSEMBLE	1
MUS 47311	VOICE CLASS FOR THE INSTRUMENTALIST	1
MUS 47412	STRING CLASS	1
MUS 47512	WIND TECHNIQUES - FRENCH HORN AND DOUBLE REEDS	1
MUS 47513	WIND TECHNIQUES - FLUTE, CLARINET, SAXOPHONE	1
MUS 47612	WIND TECHNIQUES - TRUMPET AND LOW BRASS	1
MUS 47712	PERCUSSION CLASS	1
MUS 48232	GENERAL MUSIC PEDAGOGY FOR THE INSTRUMENTALIST	1
MUS 48233	CHORAL MUSIC PEDAGOGY FOR THE INSTRUMENTALIST	1
Band Elective, choose from the following: <sup>1</sup>		
MUS 45221	SYMPHONY BAND	
MUS 45222	MARCHING BAND	
MUS 45225	UNIVERSITY BAND	

Minimum Total Credit Hours: 20

<sup>1</sup> Wind, brass and percussion majors must enroll in MUS 45222 once during their first two years of study. String majors select from MUS 45221, MUS 45222 or MUS 45225.

## Progression Requirements

Students must meet all professional requirements for admission to advanced study and to enroll in upper-division coursework.

- Minimum 2.750 major GPA and 2.500 overall GPA
- Students are required to pass the Music Education Professional Evaluation (MEPE), and must pass all sections in order to continue in the music education program with MUS 34211, MUS 34212, MUS 44211 or MUS 44212. Information regarding the MEPE is distributed by the Coordinator of Music Education.

## Graduation Requirements

Minimum Major GPA	Minimum Overall GPA
2.750	2.500

- Completion of the Major Field Test (MFT) in music history and music theory during senior year (specific score level achievement is not required)
- Minimum C grade required in all music (MUS) courses
- Attendance at minimum 84 concerts or recitals for students who begin the program as first semester freshmen (students who transferred from a non-music program or university must attend an average of 10 music concerts or recitals for semesters of full time enrollment)
- Completion of one-half senior recital, which may not be performed during the student-teaching period, and registration of applied music courses (46000 level) during a degree recital semester
- MUS 11110, MUS 11111, MUS 16914 and MUS 16915 will not count as credit for graduation in this program.

## Licensure Information

Candidates seeking Ohio licensure are required to pass specific assessments in order to apply for licensure. See Ohio Department of Education-Educator Preparation website for more information on assessments specific to licensure type. Taking and passing the licensure tests prior to graduation is encouraged but not required.

## Roadmaps

- Choral/General Concentration
- Instrumental Concentration

## CHORAL/GENERAL CONCENTRATION

This roadmap is a recommended semester-by-semester plan of study for this major. However, courses designated as critical (!) must be completed in the semester listed to ensure a timely graduation.

Semester One			Credits
!	MUS 11121	THEORY I	4
!	MUS 22111	THE UNDERSTANDING OF MUSIC (KFA) (music major section)	3
!	MUS 36XXX	Applied Music	2
	UC 10097	DESTINATION KENT STATE: FIRST YEAR EXPERIENCE	1
!	Major Ensemble		1
	Kent Core Requirement		3
	Kent Core Requirement		3
Credit Hours			17
Semester Two			
!	MUS 11122	THEORY II	4
!	MUS 22121	MUSIC AS A WORLD PHENOMENON (DIVG) (KFA)	3
!	MUS 23241	MUSIC TEACHING AS A PROFESSION	2
!	MUS 36XXX	Applied Music	2
	PSYC 11762	GENERAL PSYCHOLOGY (DIVD) (KSS)	3
!	Major Ensemble		1
	Kent Core Requirement		3
Credit Hours			18
Semester Three			
	CULT 29535	EDUCATION IN A DEMOCRATIC SOCIETY	3
!	MUS 21111	THEORY III	4
	MUS 36111	APPLIED MUSIC-PIANO or or APPLIED MUSIC-VOICE	2-4
	MUS 36311		
!	MUS 36XXX	Applied Music	2
!	Major Ensemble		1
	Kent Core Requirement		3
	Kent Core Requirement		3
Credit Hours			18
Semester Four			
	EPSY 29525	EDUCATIONAL PSYCHOLOGY	3
!	MUS 21112	THEORY IV	4
!	MUS 36XXX	Applied Music	2
	MUS 37113	PIANO SKILLS FOR THE CHORAL/GENERAL MUSIC EDUCATOR	2
	PHIL 11001	INTRODUCTION TO PHILOSOPHY (DIVG) (KHUM) or or INTRODUCTION TO ETHICS (DIVG) (KHUM)	3
	PHIL 21001		
	SPED 23000	INTRODUCTION TO EXCEPTIONALITIES (DIVD)	3
!	Major Ensemble		1
Credit Hours			18
Semester Five			
Required: minimum 2.750 GPA, admission to advanced study.			
Note: successful completion of the Music Education Professional Evaluation in the music education division as a prerequisite for MUS 34211 and MUS 34212.			
!	MUS 32211	MUSIC HISTORY I	3
!	MUS 34111	INTRODUCTION TO CONDUCTING	2
	MUS 33214	MUSIC TECHNOLOGY FOR MUSIC EDUCATORS	1
	MUS 33314	PROGRESSIVE AND VERNACULAR MUSIC METHODS	2

	MUS 34211	ELEMENTARY AND SECONDARY GENERAL MUSIC	2
	MUS 45313	NOVA JAZZ SINGERS	1
!	MUS 46XXX	Applied Music	2
	MUS 47811	INSTRUMENT CLASS FOR THE CHORAL/GENERAL MUSIC EDUCATOR	1
!	Major Ensemble		1
Credit Hours			15
Semester Six			
!	MUS 32212	MUSIC HISTORY II (WIC)	3
!	MUS 34212	ELEMENTARY AND SECONDARY CHORAL MUSIC	2
!	MUS 44111	ADVANCED CHORAL CONDUCTING	3
!	MUS 46XXX	Applied Music	2
	MUS 48231	INSTRUMENTAL PEDAGOGY FOR THE CHORAL GENERAL MUSIC EDUCATOR	2
	MUS 48241	VOICE PEDAGOGY	2
!	Major Ensemble		1
	Kent Core Requirement		3
Credit Hours			18
Semester Seven			
Note: Completion of a major field test in music history and music theory by the end of the semester.			
	CI 47330	READING AND WRITING IN ADOLESCENCE/ADULTHOOD	3
!	MUS 41112	WESTERN MUSIC SINCE 1945	1
	MUS 43243	CONTEMPORARY CHORAL METHODS IN THE SCHOOLS	3
!	MUS 46XXX	Applied Music	2
!	Major Ensemble		1
	Kent Core Requirement		3
	Kent Core Requirement		3
Credit Hours			16
Semester Eight			
Note: Candidates seeking Ohio licensure are required to pass specific assessments in order to apply for licensure. See Ohio Department of Education - Educator Preparation website for more information on assessments specific to licensure type.			
!	MUS 42357	STUDENT TEACHING (ELR)	9
!	MUS 49525	SEMINAR FOR STUDENT TEACHING (ELR)	3
Credit Hours			12
Minimum Total Credit Hours:			132

## Instrumental Concentration

This roadmap is a recommended semester-by-semester plan of study for this major. However, courses designated as critical (!) must be completed in the semester listed to ensure a timely graduation.

Semester One		Credits
!	MUS 11121 THEORY I	4
!	MUS 22111 THE UNDERSTANDING OF MUSIC (KFA) (music major section)	3
!	MUS 36XXX Applied Music	2
	MUS 45222 MARCHING BAND	0-1
	UC 10097 DESTINATION KENT STATE: FIRST YEAR EXPERIENCE	1
!	Major Ensemble	1
	Kent Core Requirement	3
	Kent Core Requirement	3
Credit Hours		17
Semester Two		
!	MUS 11122 THEORY II	4
!	MUS 22121 MUSIC AS A WORLD PHENOMENON (DIVG) (KFA)	3
	MUS 23241 MUSIC TEACHING AS A PROFESSION	2
!	MUS 36XXX Applied Music	2
	PSYC 11762 GENERAL PSYCHOLOGY (DIVD) (KSS)	3
!	Major Ensemble	1
	String, Woodwind, Brass or Percussion Electives	1
Credit Hours		16
Semester Three		
	CULT 29535 EDUCATION IN A DEMOCRATIC SOCIETY	3
!	MUS 21111 THEORY III	4
!	MUS 36XXX Applied Music	2
	MUS 37114 PIANO SKILLS FOR THE INSTRUMENTAL MUSIC EDUCATOR	1
	PHIL 11001 INTRODUCTION TO PHILOSOPHY (DIVG) (KHUM) or INTRODUCTION TO ETHICS (DIVG) (KHUM) or PHIL 21001	3
!	Major Ensemble	1
	String, Woodwind, Brass or Percussion Electives	1
	Kent Core Requirement	3
Credit Hours		18
Semester Four		
	EPSY 29525 EDUCATIONAL PSYCHOLOGY	3
!	MUS 21112 THEORY IV	4
!	MUS 36XXX Applied Music	2
	MUS 48232 GENERAL MUSIC PEDAGOGY FOR THE INSTRUMENTALIST	1
	SPED 23000 INTRODUCTION TO EXCEPTIONALITIES (DIVD)	3
!	Major Ensemble	1
	String, Woodwind, Brass or Percussion Electives	1
	Kent Core Requirement	3
Credit Hours		18
Semester Five		
Required: minimum 2.750 GPA, admission to advanced study. Note: successful completion of the Music Education Professional Evaluation in the music education division as a prerequisite for MUS 44211 and MUS 44212.		
!	MUS 32211 MUSIC HISTORY I	3
	MUS 33314 PROGRESSIVE AND VERNACULAR MUSIC METHODS	2

!	MUS 34111 INTRODUCTION TO CONDUCTING	2
!	MUS 44211 INSTRUMENTAL METHODS I	2
	MUS 45231 JAZZ ENSEMBLE	1
!	MUS 46XXX Applied Music	2
	MUS 47311 VOICE CLASS FOR THE INSTRUMENTALIST	1
!	Major Ensemble	1
	Kent Core Requirement	3
Credit Hours		17
Semester Six		
!	MUS 32212 MUSIC HISTORY II (WIC)	3
!	MUS 44212 INSTRUMENTAL METHODS II	2
!	MUS 43245 JAZZ ENSEMBLE TECHNIQUES AND LITERATURE	1
!	MUS 44121 ADVANCED INSTRUMENTAL CONDUCTING	3
	MUS 45221 SYMPHONY BAND or UNIVERSITY BAND or MUS 45225	0-1
!	MUS 46XXX Applied Music	2
!	Major Ensemble	1
	Kent Core Requirement	3
Credit Hours		16
Semester Seven		
Note: Completion of a major field test in music history and music theory by the end of the semester.		
	CI 47330 READING AND WRITING IN ADOLESCENCE/ADULTHOOD	3
	MUS 33214 MUSIC TECHNOLOGY FOR MUSIC EDUCATORS	1
!	MUS 41112 WESTERN MUSIC SINCE 1945	1
!	MUS 43241 MARCHING BAND TECHNIQUES AND LITERATURE	1
!	MUS 46XXX Applied Music	2
	MUS 48233 CHORAL MUSIC PEDAGOGY FOR THE INSTRUMENTALIST	1
!	Major Ensemble	1
	Kent Core Requirement	3
	Kent Core Requirement	3
	String, Woodwind, Brass or Percussion Electives	2
Credit Hours		18
Semester Eight		
Note: Candidates seeking Ohio licensure are required to pass specific assessments in order to apply for licensure. See Ohio Department of Education - Educator Preparation website for more information on assessments specific to licensure type.		
!	MUS 42357 STUDENT TEACHING (ELR)	9
!	MUS 49525 SEMINAR FOR STUDENT TEACHING (ELR)	3
Credit Hours		12
Minimum Total Credit Hours:		132

## Music Education - M.M.

### College of the Arts

School of Music

E101 Center for the Performing Arts

Kent Campus

330-672-2172

schoolofmusic@kent.edu

www.kent.edu/music

## Description

The Master of Music degree in Music Education is designed to offer teachers of choral, instrumental and general music the opportunity to develop and refine their professional skills. The degree program allows for enhancement and specialization relative to music teaching and learning in contemporary school contexts. The program is not intended to provide licensure and is constructed for those who have a music education background with the desire to improve the student and teacher experience in music classroom settings.

### Fully Offered At:

- Online

## Accreditation

National Association of Schools of Music; National Council for Accreditation of Teacher Education

## Admission Requirements

- Bachelor's degree in music education from an accredited college or university for unconditional admission for unconditional admission
- Minimum 3.000 undergraduate GPA on a 4.000 point scale for unconditional admission for unconditional admission
- Official transcript(s)
- Current and valid state teaching license earned from an accredited U.S. university program
- One year of full-time teaching completed before beginning coursework
- Résumé
- Goal Statement
- Three letters of recommendation
- English language proficiency - all international students must provide proof of English language proficiency (unless they meet specific exceptions) by earning one of the following:
  - Minimum 525 TOEFL PBT score (paper-based version)
  - Minimum 71 TOEFL IBT score (Internet-based version)
  - Minimum 74 MELAB score
  - Minimum 6.0 IELTS score
  - Minimum 50 PTE score
  - Minimum 100 Duolingo test score

For more information about graduate admissions, please visit the Graduate Studies admission website. For more information on international admission, visit the Office of Global Education's admission website.

## Program Learning Outcomes

1. Develop and apply knowledge of foundational principles of music education (history, philosophy, sociology, psychology); research methods and practices; music technology; methods of music education in instrumental, choral and general music contexts; western music theory and history; and world music.
2. Exhibit scholarly writing skills focusing on comprehensive knowledge of research methodology.
3. Demonstrate reading, research, writing and critical-thinking skills related to contemporary music education contexts.

## Program Requirements

### Major Requirements

Code	Title	Credit Hours
<b>Major Requirements</b>		
MUS 52131	AMERICA'S MUSIC	3
MUS 52171	MUSIC FROM WORLD CULTURES	3
MUS 61170	MUSIC ANALYSIS	3
MUS 63198	CAPSTONE PROJECT <sup>1</sup>	4
MUS 63241	INQUIRY IN MUSIC TEACHING I	3
MUS 63242	INQUIRY IN MUSIC TEACHING AND LEARNING II	3
MUS 67243	TECHNOLOGY FOR MUSIC TEACHING	3
MUS 63274	FOUNDATIONS OF MUSIC EDUCATION	3
Pedagogy Specialization Electives, choose from the following:		6
MUS 63261	ADVANCED STUDIES IN TEACHING CHORAL MUSIC	
MUS 63262	ADVANCED STUDIES IN TEACHING INSTRUMENTAL MUSIC	
MUS 63263	ADVANCED STUDIES IN TEACHING GENERAL MUSIC	

Minimum Total Credit Hours: 31

<sup>1</sup> With the capstone project, students complete a 12-week, individual research investigation comparable to a master's thesis. Under the supervision of a capstone advisor, students synthesize knowledge through the development of a curricular project applicable to the student's specific area of teaching. A prescribed description outlines requirements, goals, objectives, procedures and assessment. Activities include student reading-research-writing, preparation of a project outline and drafts, regular interaction with a research mentor and evaluation of conclusions for the final submission. The project's goal is to support students to critically analyze and improve their own music teaching and learning skills in classroom settings. The project is reviewed and evaluated by a graduate committee of music education faculty.

## Music Education - Ph.D.

### College of the Arts

School of Music  
E101 Center for the Performing Arts  
Kent Campus  
330-672-2172  
schoolofmusic@kent.edu  
www.kent.edu/music/

## Description

The Ph.D. degree in Music Education is for students to integrate teaching, theory, and research in inquiry about music teaching and learning. Through a collaboration with Kent State's College of Education, Health and Human Services, the degree program allows for emerging scholars to engage in coursework and research in areas connecting musical and educational pedagogies. Students pursuing the Ph.D. degree will be those interested in preparing music teacher educators at institutions of higher learning, engaging in arts education activities and exploring emerging practices in curriculum, artistic instruction and educational thought.

## Fully Offered At:

- Kent Campus

## Accreditation

National Association of Schools of Music; National Council for Accreditation of Teacher Education

## Admission Requirements

- Master's degree from an accredited college or university for unconditional admission
- Bachelor's or master's degree in music education for unconditional admission
- Minimum 3.000 undergraduate GPA on a 4.000 point scale for unconditional admission
- Official transcript(s)
- Current and valid state teaching license earned from an accredited U.S. university program
- Minimum three years of successful teaching experience at elementary and/or secondary levels
- Video/DVD sample of school music teaching
- Résumé or curriculum vitae of professional musical and teaching work
- Goal statement
- Scholarly writing sample of related discipline
- Three letters of reference (professional and pedagogical)
- Interview with music education faculty (via voice, video or personal campus visit)
- English language proficiency - all international students must provide proof of English language proficiency (unless they meet specific exceptions) by earning one of the following:
  - Minimum 525 TOEFL PBT score (paper-based version)
  - Minimum 71 TOEFL IBT score (Internet-based version)
  - Minimum 74 MELAB score
  - Minimum 6.0 IELTS score
  - Minimum 50 PTE score
  - Minimum 100 Duolingo test score

For more information about graduate admissions, please visit the Graduate Studies admission website. For more information on international admission, visit the Office of Global Education's admission website.

## Program Learning Outcomes

Graduates of the program will be able to:

1. Demonstrate knowledge of music education research and practice relative to primary, secondary, undergraduate, masters and doctoral levels through writing and oral communication.
2. Engage in research activities appropriate to doctoral and professional level practice in music education.
3. Demonstrate active involvement at local, national and global levels through diverse professional activities, including but not limited to scholarly publications and presentations, collaborative research and engagement with other scholars in order to share knowledge in music and related fields.

4. Communicate a comprehensive and sophisticated knowledge of music education through the lens of history, philosophy, psychology, sociology, research methodologies, advanced pedagogy, learning theories and methods of curricular structure.
5. Demonstrate reading, research, writing and critical thinking skills related to contemporary music education contexts.

## Program Requirements

### Major Requirements

Code	Title	Credit Hours
<b>Major Requirements</b>		
CI 77001	FUNDAMENTALS OF CURRICULUM	3
CI 87000	THEORY AND RESEARCH IN TEACHING	3
EVAL 75510	STATISTICS I FOR EDUCATIONAL SERVICES	3
EVAL 85515	QUANTITATIVE RESEARCH DESIGN AND ANALYSIS	3
or EVAL 85516	QUALITATIVE RESEARCH DESIGN	
MUS 73261	ADVANCED STUDIES IN SECONDARY CHORAL AND GENERAL MUSIC	3
or MUS 73262	ADVANCED STUDIES IN INSTRUMENTAL MUSIC	
or MUS 73263	ADVANCED STUDIES IN GENERAL MUSIC FOR CHILDREN	
MUS 73283	RESEARCH IN MUSIC EDUCATION	3
MUS 86001	SEMINAR IN MUSIC EDUCATION I	3
MUS 86002	SEMINAR IN MUSIC EDUCATION II	3
MUS 88199	DISSERTATION I <sup>1</sup>	30
Music Education Electives, choose from the following:		9
MUS 73272	LEARNING THEORIES IN MUSIC	
MUS 73273	PSYCHOLOGY OF MUSIC	
MUS 73274	FOUNDATIONS OF MUSIC EDUCATION	
MUS 73284	HISTORY OF MUSIC EDUCATION	
MUS 73285	PHILOSOPHY OF MUSIC EDUCATION	
MUS 73286	SOCIOLOGY OF MUSIC EDUCATION	
MUS 73295	SPECIAL TOPICS IN MUSIC EDUCATION	
Curriculum Electives, choose from the following:		6
CI 71130	MULTICULTURAL EDUCATION: STRATEGIES	
CI 77002	CURRICULUM LEADERSHIP	
CI 77003	TEACHER EDUCATION	
CI 77004	PROFESSIONAL DEVELOPMENT IN TEACHING	
CI 77010	CURRICULUM EVALUATION	
CI 87001	THEORY AND RESEARCH IN CURRICULUM	
CI 87002	FORMS OF INQUIRY IN CURRICULUM AND INSTRUCTION	
Musical Literacy Electives, choose from the following: <sup>2</sup>		6
MUS 71171	ANALYTICAL TECHNIQUES I	
MUS 71172	ANALYTICAL TECHNIQUES II	
MUS 72281	SEMINAR IN MUSIC HISTORY AND LITERATURE	
MUS 72412	INTRODUCTION TO ETHNOMUSICOLOGY	
MUS 72511	MUSIC HISTORY I	
MUS 72521	MUSIC HISTORY II	
MUS 72531	MUSIC HISTORY III	
MUS 72541	MUSIC HISTORY IV	
MUS 74111	CONDUCTING PROJECTS:CHORAL (2 or 4)	
MUS 74121	CONDUCTING PROJECTS:BAND (2 or 4)	
MUS 74131	CONDUCTING PROJECTS:ORCHESTRA (2 or 4)	



MUS 81211 COMPOSITION (2 or 4)

Minimum Total Credit Hours:

75

- <sup>1</sup> Students may also select other courses in the School of Music with advisor approval. If students select classes with fewer than 3 credit hours, they must still meet the 6 credit hours for musical literacy category.
- <sup>2</sup> Upon successful completion of the candidacy examination, students take a dissertation topic from the proposal stage through approval, writing, submission and an oral defense process with a faculty committee comprised of the music education advisor, one additional music education faculty member, one representative from music education or education, a member from another music discipline area or education and an appointed graduate faculty representative. Each doctoral candidate, upon admission to candidacy, must register for MUS 88199 for a total of 30 credit hours. It is expected that a doctoral candidate will continuously register for Dissertation I, and thereafter MUS 88299, each semester, until all requirements for the degree have been met.

## Residency Requirements

Student must complete a residency requirement of minimum 9 credit hours each year until qualifying exams.

## Candidacy Requirements

For the Ph.D. a comprehensive, qualifying, candidacy examination is taken when the student has substantially completed his/her coursework and has received the consent of the advisor committee to attempt the examination. The examination includes an extensive written section consisting of proctored and non-proctored questions, and an oral section taken before a faculty committee. Material for both written and oral sections is drawn from the coursework taken during the degree program, current professional research literature, and current topics in music education. Students who fail the candidacy examination two times will be dismissed from the doctoral program.

## Music Technology - B.S.

### College of the Arts

School of Music

E101 Center for the Performing Arts

Kent Campus

330-672-2172

schoolofmusic@kent.edu

www.kent.edu/music

## Description

The Bachelor of Science degree in Music Technology prepares students as musicians within a broad field of constantly changing technology. Students study in courses that will develop expertise in music computer technology for application in the recording industry, audio-engineering and music production.

The development of music technology has had an enormous impact on the music industry. There are many career opportunities for talented musicians in music technology. Skilled musicians can apply formal training to recording careers, studio performance, arranging or producing and live performances. Opportunities are also available in non-traditional, contemporary popular music venues, the movie industry, television, multi-

media events, and music for advertising as well as traditional performing arts venues. The growth of music technology has made knowledge and experience in this area a necessity for all students preparing for a career in any area of the music industry. To compete effectively in the contemporary music world, one must possess a strong traditional music background, plus the technical expertise required to make the most of a rapidly changing and developing technology.

The Music Technology major comprises the following concentrations:

- The **Audio Recording** concentration provides students the opportunity to learn advanced audio recording techniques.
- The **Music Production** concentration provides students the opportunity to learn how to use technology to realize creative work such as original music, arranging and production.

## Fully Offered At:

- Stark Campus

## Accreditation

The B.S. degree in Music Technology is accredited by the National Association of Schools of Music.

## Admission Requirements

The university affirmatively strives to provide educational opportunities and access to students with varied backgrounds, those with special talents and adult students who graduated from high school three or more years ago.

Admission to this major is selective. To be admitted to the Music Technology major, students on their primary instrument and complete theory and keyboard placement tests.

For more information on admissions, including additional requirements for some academic programs, visit the admissions website for new freshmen and the admissions website for transfer, transitioning and former students.

### English Language Proficiency Requirements for International Students:

All international students must provide proof of English language proficiency (unless they meet specific exceptions) by earning a minimum 525 TOEFL score (71 on the Internet-based version), minimum 75 MELAB score, minimum 6.0 IELTS score or minimum 48 PTE Academic score, or by completing the ELS level 112 Intensive Program. For more information on international admission, visit the Office of Global Education's admission website.

## Program Learning Outcomes

Graduates of this program will be able to:

1. Function as competent and versatile professional studio musicians who perform in diverse commercial music venues
2. Compose and arrange music
3. Create appropriate sound for visual media
4. Create music productions of professional quality
5. Produce professional audio recordings, both live and in studio, from start to finish

## University Requirements

All students in a bachelor's degree program at Kent State University must complete the following university requirements for graduation.

**NOTE:** University requirements may be fulfilled in this program by specific course requirements. Please see Program Requirements for details.

Destination Kent State: First Year Experience	1
Course is not required for students with 25 transfer credits, excluding College Credit Plus, or age 21+ at time of admission.	
Diversity Domestic/Global (DIVD/DIVG)	2 courses
Students must successfully complete one domestic and one global course, of which one must be from the Kent Core.	
Experiential Learning Requirement (ELR)	varies
Students must successfully complete one course or approved experience.	
Kent Core (see table below)	36-37
Writing-Intensive Course (WIC)	1 course
Students must earn a minimum C grade in the course.	
Upper-Division Requirement	39 (or 42)
Students must successfully complete 39 upper-division (numbered 30000 to 49999) credit hours to graduate. Students in a B.A. and/or B.S. degree in the College of Arts and Sciences must complete 42 upper-division credit hours.	
Total Credit Hour Requirement	120
Some bachelor's degrees require students to complete more than 120 credit hours.	

## Kent Core Requirements

Kent Core Composition (KCOMP)	6
Kent Core Mathematics and Critical Reasoning (KMCR)	3
Kent Core Humanities and Fine Arts (KHUM/KFA) (min one course each)	9
Kent Core Social Sciences (KSS) (must be from two disciplines)	6
Kent Core Basic Sciences (KBS/KLAB) (must include one laboratory)	6-7
Kent Core Additional (KADL)	6
<b>Total Credit Hours:</b>	<b>36-37</b>

## Program Requirements

### Major Requirements

Code	Title	Credit Hours
<b>Major Requirements (courses count in major GPA) (min C grade required in all courses)</b>		
MUS 11121	THEORY I	4
MUS 11122	THEORY II	4
MUS 22111	THE UNDERSTANDING OF MUSIC (KFA)	3
MUS 22121	MUSIC AS A WORLD PHENOMENON (DIVG) (KFA)	3
MUS 21113	MUSIC PRODUCTION I	3
MUS 21114	MUSIC PRODUCTION II	3
MUS 21221	AUDIO RECORDING I	3
MUS 21222	AUDIO RECORDING II	3
MUS 21341	CONTEMPORARY POPULAR MUSIC THEORY	3
MUS 34111	INTRODUCTION TO CONDUCTING	2
MUS 37111	CONTEMPORARY POPULAR PIANO	2

MUS 40092	MUSIC TECHNOLOGY INTERNSHIP (ELR)	2
MUS 41181	ACOUSTICS AND TECHNOLOGY IN MUSIC	2
MUS 41341	JAZZ IMPROVISATION I	1
MUS 42165	HISTORY OF CONTEMPORARY POPULAR MUSIC (DIVD) (WIC) <sup>1</sup>	3
Music (MUS) Elective		4
Major Ensemble, choose from the following: <sup>2</sup>		8
MUS 45111	UNIVERSITY CHOIR	
MUS 45141	KENT STATE UNIVERSITY CHORALE	
MUS 45142	CORO CANTARE	
MUS 45143	CANTIQUÉ	
MUS 45212	ORCHESTRA	
MUS 45221	SYMPHONY BAND	
MUS 45223	WIND ENSEMBLE	
Music History Elective, choose from the following:		3
MUS 32211	MUSIC HISTORY I	
MUS 42131	AMERICA'S MUSIC	
MUS 42161	HISTORY OF JAZZ (DIVD)	
Applied Studio Musicianship and Applied Music, choose from the following: <sup>3</sup>		12
MUS 26111	APPLIED MUSIC PIANO	
MUS 26311	APPLIED MUSIC VOICE	
MUS 26411	APPLIED MUSIC - VIOLIN	
MUS 26412	APPLIED MUSIC - VIOLA	
MUS 26413	APPLIED MUSIC - CELLO	
MUS 26414	APPLIED MUSIC DOUBLE BASS	
MUS 26511	APPLIED MUSIC - FLUTE	
MUS 26512	APPLIED MUSIC - OBOE	
MUS 26513	APPLIED MUSIC - CLARINET	
MUS 26514	APPLIED MUSIC - BASSOON	
MUS 26515	APPLIED MUSIC - SAXOPHONE	
MUS 26611	APPLIED MUSIC - TRUMPET	
MUS 26612	APPLIED MUSIC - HORN	
MUS 26613	APPLIED MUSIC - TROMBONE	
MUS 26614	APPLIED MUSIC - EUPHONIUM	
MUS 26615	APPLIED MUSIC - TUBA	
MUS 26711	APPLIED MUSIC PERCUSSION	
MUS 26912	APPLIED MUSIC GUITAR	
MUS 36111	APPLIED MUSIC-PIANO <sup>4</sup>	
MUS 36311	APPLIED MUSIC-VOICE <sup>4</sup>	
MUS 36411	APPLIED MUSIC-VIOLIN <sup>4</sup>	
MUS 36412	APPLIED MUSIC-VIOLA <sup>4</sup>	
MUS 36413	APPLIED MUSIC-CELLO <sup>4</sup>	
MUS 36414	APPLIED MUSIC-DOUBLE BASS <sup>4</sup>	
MUS 36511	APPLIED MUSIC-FLUTE <sup>4</sup>	
MUS 36512	APPLIED MUSIC-OBOE <sup>4</sup>	
MUS 36513	APPLIED MUSIC-CLARINET <sup>4</sup>	
MUS 36514	APPLIED MUSIC-BASSOON <sup>4</sup>	
MUS 36515	APPLIED MUSIC-SAXOPHONE <sup>4</sup>	
MUS 36611	APPLIED MUSIC-TRUMPET <sup>4</sup>	
MUS 36612	APPLIED MUSIC-HORN <sup>4</sup>	
MUS 36613	APPLIED MUSIC-TROMBONE <sup>4</sup>	
MUS 36614	APPLIED MUSIC-EUPHONIUM <sup>4</sup>	
MUS 36615	APPLIED MUSIC-TUBA <sup>4</sup>	
MUS 36711	APPLIED MUSIC-PERCUSSION <sup>4</sup>	
MUS 36912	APPLIED MUSIC-GUITAR <sup>4</sup>	
MUS 36913	APPLIED STUDIO MUSICIANSHIP <sup>5</sup>	

MUS 36914	ELECTRIC GUITAR APPLIED STUDIO MUSICIANSHIP <sup>6</sup>	
MUS 36915	ELECTRIC BASS APPLIED STUDIO MUSICIANSHIP <sup>6</sup>	
MUS 36916	DRUM SET PERCUSSION APPLIED STUDIO MUSICIANSHIP	
MUS 36917	KEYBOARD APPLIED STUDIO MUSICIANSHIP	
MUS 36918	CONTEMPORARY VOICE APPLIED STUDIO MUSICIANSHIP	
MUS 36919	FLUTE APPLIED STUDIO MUSICIANSHIP	
MUS 36920	CLARINET APPLIED STUDIO MUSICIANSHIP	
MUS 36921	SAXOPHONE APPLIED STUDIO MUSICIANSHIP	
MUS 36922	TRUMPET APPLIED STUDIO MUSICIANSHIP	
MUS 36923	HORN APPLIED STUDIO MUSICIANSHIP	
MUS 36924	TROMBONE APPLIED STUDIO MUSICIANSHIP	
Piano Class or Applied Music Piano, choose from the following: <sup>7</sup>		2
MUS 17111	PIANO CLASS I	
MUS 17112	PIANO CLASS II	
MUS 27111	PIANO CLASS III	
MUS 27112	PIANO CLASS IV	
MUS 36111	APPLIED MUSIC-PIANO	
MUS 46111	APPLIED MUSIC-PIANO	
<b>Additional Requirements (courses do not count in major GPA)</b>		
CA 31300	MUSIC CAREER DEVELOPMENT AND ENTREPRENEURSHIP	2
BUS 10123	EXPLORING BUSINESS	3
or ENTR 27056	INTRODUCTION TO ENTREPRENEURSHIP	
or MGMT 24163	PRINCIPLES OF MANAGEMENT	
ECON 22060	PRINCIPLES OF MICROECONOMICS (KSS)	3
MATH 11009	MODELING ALGEBRA (KMCR)	4
UC 10097	DESTINATION KENT STATE: FIRST YEAR EXPERIENCE	1
Kent Core Composition		6
Kent Core Humanities and Fine Arts (minimum one course from each)		3
Kent Core Social Sciences (must be from two disciplines)		3
Kent Core Basic Sciences (must include one laboratory)		6-7
Kent Core Additional		6
General Elective (total credit hours depends on earning 120 credits hour, including 39 upper-division credit hours)		1
<b>Concentrations</b>		
Choose from the following:		12
Audio Recording		
Music Production		
Minimum Total Credit Hours:		120

<sup>1</sup> A minimum C grade must be earned to fulfill the writing-intensive requirement.

<sup>2</sup> Major ensemble (8 separate semesters): All music technology majors must enroll in an ensemble appropriate to their major performance area. Two credit hours must be taken in major ensemble. Major ensemble credit can be earned for MUS 25011 and MUS 25225, as approved by faculty. Students may choose to complete the remaining 6 credit hours with MUS 35213, or 4 credit hours with MUS 35213 or major ensemble and 2 credit hours with ensemble electives (such as MUS 45231 and MUS 25311 for students whose instrument is guitar) as approved by faculty.

<sup>3</sup> Applied Studio Musicianship and Applied Music (6 semesters and 12 credit hours): Students must take at least 4 credit hours at 2 credits per semester of Applied Music (MUS 26xxx or MUS 36xxx) and meet Applied Music 36000 entry-level. Students may complete the other 8 credit hours by taking either Applied Music (MUS 36111-MUS 36912) or Applied Studio Musicianship (ASM) to meet graduation requirements. Students must also meet the 46000-entry-level requirement in either Applied Music or in Applied Studio Musicianship for graduation.

<sup>4</sup> Students who enter at the 36000 level need 2 semesters and 4 credit hours of MUS 36xxx Applied Music and 4 semesters and 8 credit hours of either MUS 36xxx Applied Music or Applied Studio Musicianship and the 46000 threshold.

<sup>5</sup> Students register for MUS 36913 for all other popular music instruments not listed.

<sup>6</sup> Electric Guitar and Electric Bass students, based upon the audition, can be placed in either MUS 16914 or MUS 16915. Upon successful completion of two semesters of MUS 16914/MUS 16915 students continue with applied study as indicated in footnote 3.

<sup>7</sup> Students who have completed the Applied Studio Musicianship and Applied Music requirement on piano may replace requirement with music (MUS) electives.

## Audio Recording Concentration Requirements

Code	Title	Credit Hours
<b>Concentration Requirements (courses count in major GPA) (min C grade required in all courses)</b>		
MUS 31221	AUDIO RECORDING III	3
MUS 31222	AUDIO RECORDING IV	3
MUS 41221	AUDIO RECORDING V	3
MUS 41222	AUDIO RECORDING VI	3
Minimum Total Credit Hours:		12

## Music Production Concentration Requirements

Code	Title	Credit Hours
<b>Concentration Requirements (courses count in major GPA) (min C grade required in all courses)</b>		
MUS 31113	MUSIC PRODUCTION III	3
MUS 31114	MUSIC PRODUCTION IV	3
MUS 41113	MUSIC PRODUCTION V	3
MUS 41114	MUSIC PRODUCTION VI	3
Minimum Total Credit Hours:		12

## Graduation Requirements

Minimum Major GPA	Minimum Overall GPA
2.250	2.000

- Minimum C grade required in all music (MUS) courses.
- Minimum eight semesters of major ensemble courses and six semesters of applied studio musicianship and applied music courses. Applied music courses are available in the summer on selected instruments. Composition may also be taken in the summer.
- Attendance at minimum 84 concerts or recitals for students who begin the program as first semester freshmen (students who transferred from a non-music program or university must attend an

average of 10 music concerts or recitals for semesters of full time enrollment)

- Students pursuing the in Audio Recording and Music Production concentration simultaneously can take the Audio Recording and Music Production III, IV, V and VI classes concurrently.
- MUS 11110, MUS 11111, MUS 16914 and MUS 16915 will not count as credit for graduation in this program

## Roadmap

This roadmap is a recommended semester-by-semester plan of study for this major. However, courses designated as critical (!) must be completed in the semester listed to ensure a timely graduation.

Semester One		Credits
MATH 11009	MODELING ALGEBRA (KMCR)	4
! MUS 11121	THEORY I	4
! MUS 21113	MUSIC PRODUCTION I	3
UC 10097	DESTINATION KENT STATE: FIRST YEAR EXPERIENCE	1
! Applied Studio Musicianship or Applied Music		2
! Major Ensemble Elective		1
! Piano Class or Applied Music Piano		1-2
Credit Hours		16
Semester Two		
! MUS 11122	THEORY II	4
! MUS 21221	AUDIO RECORDING I	3
! Applied Studio Musicianship or Applied Music		2
! Major Ensemble Elective		1
! Piano Class or Applied Music Piano		0-1
Kent Core Requirement		3
Credit Hours		14
Semester Three		
! MUS 21222	AUDIO RECORDING II	3
! MUS 21341	CONTEMPORARY POPULAR MUSIC THEORY	3
MUS 22111	THE UNDERSTANDING OF MUSIC (KFA) (music major section)	3
! MUS 37111	CONTEMPORARY POPULAR PIANO	2
! Applied Studio Musicianship or Applied Music		2
! Major Ensemble Elective		1
Kent Core Requirement		3
Credit Hours		17
Semester Four		
! MUS 21114	MUSIC PRODUCTION II	3
MUS 22121	MUSIC AS A WORLD PHENOMENON (DIVG) (KFA) (music major section)	3
! MUS 34111	INTRODUCTION TO CONDUCTING	2
! MUS 41341	JAZZ IMPROVISATION I	1
! Applied Studio Musicianship or Applied Music		2
! Major Ensemble Elective		1
Kent Core Requirement		3
Credit Hours		15
Semester Five		
CA 31300	MUSIC CAREER DEVELOPMENT AND ENTREPRENEURSHIP	2
ECON 22060	PRINCIPLES OF MICROECONOMICS (KSS)	3
! Concentration Requirement		3
! Applied Studio Musicianship or Applied Music		2

Major Ensemble Elective		1
Music (MUS) Elective		1
! Music History Elective		3
Credit Hours		15
Semester Six		
! MUS 41181	ACOUSTICS AND TECHNOLOGY IN MUSIC	2
! Concentration Requirement		3
! Applied Studio Musicianship or Applied Music		2
! Major Ensemble Elective		1
Kent Core Requirement		3
Kent Core Requirement		3
Credit Hours		14
Semester Seven		
BUS 10123	EXPLORING BUSINESS	3
or	or INTRODUCTION TO ENTREPRENEURSHIP	
ENTR 27056	or PRINCIPLES OF MANAGEMENT	
or		
MGMT 24163		
MUS 42165	HISTORY OF CONTEMPORARY POPULAR MUSIC (DIVD) (WIC)	3
! Concentration Requirement		3
! Major Ensemble Elective		1
Kent Core Requirement		3
Credit Hours		13
Semester Eight		
! MUS 40092	MUSIC TECHNOLOGY INTERNSHIP (ELR)	2
! Concentration Requirement		3
! Major Ensemble Elective		1
Music (MUS) Elective		3
Kent Core Requirement		3
Kent Core Requirement		3
General Elective		1
Credit Hours		16
Minimum Total Credit Hours:		120

# Music Technology - Minor

## College of the Arts

School of Music

E101 Center for the Performing Arts

Kent Campus

330-672-2172

schoolofmusic@kent.edu

www.kent.edu/music

## Description

The Music Technology minor is designed to give students a strong foundation in the rapidly developing field of music production and audio recording technologies. Coupled with courses in applied music, the minor provides students with the necessary tools to be successful in studio equipment, techniques and standards.

## Fully Offered At:

- Stark Campus

## Admission Requirements

Admission to a minor is open to students declared in a bachelor's degree, the A.A.B. or A.A.S. degree or the A.T.S. degree (not Individualized Program major). Students declared only in the A.A. or A.S. degree or the A.T.S. degree in Individualized Program may not declare a minor. Students may not pursue a minor and a major in the same discipline.

## Minor Requirements

Code	Title	Credit Hours
<b>Minor Requirements</b>		
MUS 11121	THEORY I	4
MUS 21113	MUSIC PRODUCTION I	3
MUS 21114	MUSIC PRODUCTION II	3
MUS 21221	AUDIO RECORDING I	3
MUS 21222	AUDIO RECORDING II	3
Minor Electives, choose from the following: 7		
CA 31300	MUSIC CAREER DEVELOPMENT AND ENTREPRENEURSHIP	
MUS 11122	THEORY II	
MUS 26111	APPLIED MUSIC PIANO	
MUS 26311	APPLIED MUSIC VOICE	
MUS 26411	APPLIED MUSIC - VIOLIN	
MUS 26412	APPLIED MUSIC - VIOLA	
MUS 26413	APPLIED MUSIC - CELLO	
MUS 26414	APPLIED MUSIC DOUBLE BASS	
MUS 26511	APPLIED MUSIC - FLUTE	
MUS 26512	APPLIED MUSIC - OBOE	
MUS 26513	APPLIED MUSIC - CLARINET	
MUS 26514	APPLIED MUSIC - BASSOON	
MUS 26515	APPLIED MUSIC - SAXOPHONE	
MUS 26611	APPLIED MUSIC - TRUMPET	
MUS 26612	APPLIED MUSIC - HORN	
MUS 26613	APPLIED MUSIC - TROMBONE	
MUS 26614	APPLIED MUSIC - EUPHONIUM	
MUS 26615	APPLIED MUSIC - TUBA	

MUS 26711	APPLIED MUSIC PERCUSSION
MUS 26912	APPLIED MUSIC GUITAR
MUS 31113	MUSIC PRODUCTION III
MUS 31114	MUSIC PRODUCTION IV
MUS 32230	NAVIGATING THE MUSIC INDUSTRY
MUS 35213	STUDIO ENSEMBLE
MUS 36011	APPLIED MUSIC - JAZZ
MUS 36111	APPLIED MUSIC-PIANO
MUS 36311	APPLIED MUSIC-VOICE
MUS 36411	APPLIED MUSIC-VIOLIN
MUS 36412	APPLIED MUSIC-VIOLA
MUS 36413	APPLIED MUSIC-CELLO
MUS 36414	APPLIED MUSIC-DOUBLE BASS
MUS 36511	APPLIED MUSIC-FLUTE
MUS 36512	APPLIED MUSIC-OBOE
MUS 36513	APPLIED MUSIC-CLARINET
MUS 36514	APPLIED MUSIC-BASSOON
MUS 36515	APPLIED MUSIC-SAXOPHONE
MUS 36611	APPLIED MUSIC-TRUMPET
MUS 36612	APPLIED MUSIC-HORN
MUS 36613	APPLIED MUSIC-TROMBONE
MUS 36614	APPLIED MUSIC-EUPHONIUM
MUS 36615	APPLIED MUSIC-TUBA
MUS 36711	APPLIED MUSIC-PERCUSSION
MUS 36912	APPLIED MUSIC-GUITAR
MUS 36913	APPLIED STUDIO MUSICIANSHIP
MUS 36914	ELECTRIC GUITAR APPLIED STUDIO MUSICIANSHIP
MUS 36915	ELECTRIC BASS APPLIED STUDIO MUSICIANSHIP
MUS 36916	DRUM SET PERCUSSION APPLIED STUDIO MUSICIANSHIP
MUS 36917	KEYBOARD APPLIED STUDIO MUSICIANSHIP
MUS 36918	CONTEMPORARY VOICE APPLIED STUDIO MUSICIANSHIP
MUS 36919	FLUTE APPLIED STUDIO MUSICIANSHIP
MUS 36920	CLARINET APPLIED STUDIO MUSICIANSHIP
MUS 36921	SAXOPHONE APPLIED STUDIO MUSICIANSHIP
MUS 36922	TRUMPET APPLIED STUDIO MUSICIANSHIP
MUS 36923	HORN APPLIED STUDIO MUSICIANSHIP
MUS 36924	TROMBONE APPLIED STUDIO MUSICIANSHIP
MUS 41181	ACOUSTICS AND TECHNOLOGY IN MUSIC
MUS 42165	HISTORY OF CONTEMPORARY POPULAR MUSIC (DIVD) (WIC)

Minimum Total Credit Hours:

23

## Graduation Requirements

Minimum Minor GPA	Minimum Overall GPA
2.000	2.000

- Students declared in the Music or Music Education major must complete 18 credit hours that are separate from music degree requirements.
- MUS 11110, MUS 11111, MUS 16914 and MUS 16915 will not count as credit for graduation in this program.



- Minimum 6 credit hours in the minor must be upper-division coursework (30000 and 40000 level).
- Minimum 6 credit hours in the minor must be outside of the course requirements for any major or other minor the student is pursuing.
- Minimum 50 percent of the total credit hours for the minor must be taken at Kent State (in residence).

## Music Theory - M.A.

### College of the Arts

School of Music  
E101 Center for the Performing Arts  
Kent Campus  
330-672-2172  
schoolofmusic@kent.edu  
www.kent.edu/music

## Description

The Master of Arts degree in Music Theory is designed to enhance music theory abilities of advanced students and to prepare them for admission to doctoral study. Based on a solid undergraduate music degree, the master's degree further develops abilities in music theory, including analytical, aural, written, keyboard and pedagogical skills. The program further develops breadth and depth in the area of Western music history and literature

### Fully Offered At:

- Kent Campus

## Accreditation

National Association of Schools of Music

## Admission Requirements

- Bachelor's degree from an accredited college or university for unconditional admission
- Minimum 3.000 undergraduate GPA on a 4.000 point scale for unconditional admission
- Official transcript(s)
- Three letters of recommendation
- Résumé
- Goal statement
- Academic paper written in English
- English language proficiency - all international students must provide proof of English language proficiency (unless they meet specific exceptions) by earning one of the following:
  - Minimum 525 TOEFL PBT score (paper-based version)
  - Minimum 71 TOEFL IBT score (Internet-based version)
  - Minimum 74 MELAB score
  - Minimum 6.0 IELTS score
  - Minimum 50 PTE score
  - Minimum 100 Duolingo test score

For more information about graduate admissions, please visit the Graduate Studies admission website. For more information on

international admission, visit the Office of Global Education's admission website.

## Program Learning Outcomes

Graduates of this program will be able to:

1. Analyze music from a wide range of styles and style periods, and communicate results in written and oral formats.
2. Demonstrate and apply functional aural, written and keyboard skills.
3. Recognize, identify and analyze representative literature from different historical periods, countries and composers.
4. Communicate knowledge of music theory and other aspects of music as would be done in classroom and private teaching.

## Program Requirements

### Major Requirements

Code	Title	Credit Hours
<b>Major Requirements</b>		
MUS 58251	PEDAGOGY OF MUSIC THEORY	2
MUS 62411	MUSIC BIBLIOGRAPHY AND RESEARCH METHODS	2
MUS 68199	THESIS I <sup>1</sup>	6
Music (MUS) Electives		4-7
Ensemble		2
Music Theory Electives, choose from the following: <sup>2</sup>		9-10
MUS 51141	16TH-CENTURY COUNTERPOINT	
MUS 51151	18TH-CENTURY COUNTERPOINT	
MUS 61121	HISTORY OF MUSIC THEORY	
MUS 61131	SCHENKERIAN ANALYSIS	
MUS 61171	ANALYTICAL TECHNIQUES I	
MUS 61172	ANALYTICAL TECHNIQUES II	
MUS 61181	POST-TONAL THEORY	
MUS 61191	SEMINAR IN MUSIC SINCE 1900	
Music History Electives, choose from the following:		4-6
MUS 52131	AMERICA'S MUSIC	
MUS 52161	HISTORY OF JAZZ	
MUS 52171	MUSIC FROM WORLD CULTURES	
MUS 62511	MUSIC HISTORY I	
MUS 62521	MUSIC HISTORY II	
MUS 62531	MUSIC HISTORY III	
MUS 62541	MUSIC HISTORY IV	
Minimum Total Credit Hours:		32

<sup>1</sup> All students writing a thesis must pass a final oral examination covering the thesis and the student's major area of study. The final oral examination may be attempted two times.

<sup>2</sup> Selection of music theory course is based on students' result from the theory placement exam. In the case of the exam results placing a student into MUS 41111, the undergraduate course will not count towards the M.A. degree and must be taken in addition to the graduate-level music theory requirements. MUS 61171 and MUS 61172 may be required.

## Music Theory - Composition - Ph.D.

College of the Arts

School of Music  
E101 Center for the Performing Arts  
Kent Campus  
330-672-2172  
schoolofmusic@kent.edu  
www.kent.edu/music

## Description

The Ph.D. degree in Music Theory–Composition prepares composers, research scholars and college/university teachers in the areas of music theory and composition. This degree program is based on the premise that original composition of high quality requires a strong background in theory, and that significant scholarship in theory requires experience in original composition.

### Fully Offered At:

- Kent Campus

## Accreditation

National Association of Schools of Music

## Admission Requirements

- Master's degree from an accredited college or university for unconditional admission
- Minimum 3.000 undergraduate GPA on a 4.000 point scale for unconditional admission
- Official transcript(s)
- Resume
- Goal Statement
- Three letters of recommendation
- Substantial term paper on a theoretical topic or a master's thesis in music theory written in English
- Minimum three scores of original compositions demonstrating a variety of genres (chamber, orchestral, piano, choral, etc.)
- English language proficiency - all international students must provide proof of English language proficiency (unless they meet specific exceptions) by earning one of the following:
  - Minimum 525 TOEFL PBT score (paper-based version)
  - Minimum 71 TOEFL IBT score (Internet-based version)
  - Minimum 74 MELAB score
  - Minimum 6.0 IELTS score
  - Minimum 50 PTE score
  - Minimum 100 Duolingo test score

For more information about graduate admissions, please visit the Graduate Studies admission website. For more information on international admission, visit the Office of Global Education's admission website.

## Program Learning Outcomes

Graduates of this program will be able to:

1. Compile a body of completed compositions.
2. Demonstrate and apply compositional techniques for creation of new works, including musical style and structure.

3. Analyze music from a wide range of styles and style periods, and communicate results in written and oral formats.
4. Recognize, identify and analyze representative literature from different historical periods, countries and composers.
5. Communicate knowledge of composition, theory and other aspects of music in classroom and private teaching.

## Program Requirements

### Major Requirements

Code	Title	Credit Hours
<b>Major Requirements</b>		
MUS 71121	HISTORY OF MUSIC THEORY	3
MUS 71131	SCHENKERIAN ANALYSIS	3
MUS 71181	POST-TONAL THEORY	3
MUS 71191	SEMINAR IN MUSIC SINCE 1900	3
MUS 78251	PEDAGOGY OF MUSIC THEORY	2
MUS 81211	COMPOSITION (course is repeatable)	8
MUS 88199	DISSERTATION I <sup>1</sup>	30
Music History Electives		4-6
Music (MUS) Electives (Related Studies) <sup>2</sup>		4-6
Minimum Total Credit Hours:		60

<sup>1</sup> Each doctoral candidate, upon admission to candidacy, must register for MUS 88199 for a total of 30 credit hours. It is expected that a doctoral candidate will continuously register for Dissertation I, and thereafter MUS 88299, each semester, until all requirements for the degree have been met. All students writing a dissertation must pass a dissertation defense. Dissertation defense may be attempted two times.

<sup>2</sup> Electives must have been approved in student's prospectus.

### Candidacy Requirement

This examination will normally be taken when the student has substantially completed his/her coursework and has received the consent of the advisory committee to attempt the examination. The written portion of the examination will cover the major and supportive areas of study and will be followed by a comprehensive oral examination. Students who fail the candidacy examination two times will be dismissed from the doctoral program.

### Residency Requirement

Students in the Ph.D. must complete a minimum of 15 credit hours of study within one calendar year in residence.

## Performance - M.M.

### College of the Arts

School of Music  
E101 Center for the Performing Arts  
Kent Campus  
330-672-2172  
schoolofmusic@kent.edu  
www.kent.edu/music

## Description

The Master of Music degree in Performance is designed to prepare the student for professional music activities, including solo performance, orchestral playing, ensemble playing, collaborative performance, studio teaching and doctoral study. The program emphasizes development of skills, knowledge and background in the following areas: literature and repertoire, performance skills, practice skills, interpretation and expression, performance pedagogy, historical performance practices, music history and music theory.

The Performance major includes the following optional concentrations:

- The **Chamber Music** optional concentration is for intensive coaching and performance of string quartet literature.
- Collaborative Piano

## Fully Offered At:

- Kent Campus

## Accreditation

National Association of Schools of Music

## Admission Requirements

- Bachelor's degree from an accredited college or university for unconditional admission
- Minimum 3.000 undergraduate GPA on a 4.000 point scale for unconditional admission
- Official transcript(s)
- Résumé
- Goal statement
- Three letters of recommendation
- Audition
- English language proficiency - all international students must provide proof of English language proficiency (unless they meet specific exceptions) by earning one of the following:
  - Minimum 525 TOEFL PBT score (paper-based version)
  - Minimum 71 TOEFL IBT score (Internet-based version)
  - Minimum 74 MELAB score
  - Minimum 6.0 IELTS score
  - Minimum 50 PTE score
  - Minimum 100 Duolingo test score

For more information about graduate admissions, please visit the Graduate Studies admission website. For more information on international admission, visit the Office of Global Education's admission website.

## Program Learning Outcomes

Graduates of this program will be able to:

1. Recognize, identify, interpret and perform representative literature from different historical periods, countries and composers.
2. Apply advanced performing skills in solo and ensemble settings, including tone production, accuracy, intonation, instrumental/vocal technique, musicality/expression, vocal language and diction and stage presence/presentation.

3. Discuss, utilize and achieve high-quality results from efficient and effective practice techniques, including time management, achievable goals and use of appropriate technical skills, musical expression skills and focused work ethic.
4. Have an enhanced understanding of interpretation and expression in music.
5. Identify, explain and utilize performance pedagogy appropriate to the specific area of study.
6. Identify, associate, differentiate and utilize performances practices appropriate to the literature of the various stylistic periods.
7. Utilize and discuss score study of literature performed and also representative literature from various historical periods and composers.

## Program Requirements

### Major Requirements

Code	Title	Credit Hours
<b>Major Requirements</b>		
MUS 62411	MUSIC BIBLIOGRAPHY AND RESEARCH METHODS	2
MUS 68687	RECITAL (taken twice for 1 credit hour each) <sup>1</sup>	2
Applied Music Electives, choose from the following: <sup>2</sup>		12
MUS 66111	APPLIED MUSIC-GRADUATE PIANO	
MUS 66311	APPLIED MUSIC-GRADUATE VOICE	
MUS 66411	APPLIED MUSIC-GRADUATE VIOLIN	
MUS 66412	APPLIED MUSIC-GRADUATE VIOLA	
MUS 66413	APPLIED MUSIC-GRADUATE CELLO	
MUS 66414	APPLIED MUSIC-GRADUATE DOUBLE BASS	
MUS 66511	APPLIED MUSIC-GRADUATE FLUTE	
MUS 66512	APPLIED MUSIC-GRADUATE OBOE	
MUS 66513	APPLIED MUSIC-GRADUATE CLARINET	
MUS 66514	APPLIED MUSIC-GRADUATE BASSOON	
MUS 66515	APPLIED MUSIC-GRADUATE SAXOPHONE	
MUS 66611	APPLIED MUSIC-GRADUATE TRUMPET	
MUS 66612	APPLIED MUSIC-GRADUATE HORN	
MUS 66613	APPLIED MUSIC-GRADUATE TROMBONE	
MUS 66615	APPLIED MUSIC-GRADUATE TUBA	
MUS 66711	APPLIED MUSIC-GRADUATE PERCUSSION	
Ensemble Electives, choose from the following: <sup>3</sup>		4
MUS 55121	KENT CHORUS	
MUS 55142	CORO CANTARE	
MUS 55131	OPERA:SINGER-ACTOR TECHNIQUES	
MUS 55141	KENT STATE UNIVERSITY CHORALE	
MUS 55143	CANTIQUÉ	
MUS 55151	KENT STATE UNIVERSITY GOSPEL CHOIR	
MUS 55212	ORCHESTRA	
MUS 55221	SYMPHONY BAND	
MUS 55223	WIND ENSEMBLE	
MUS 55231	JAZZ ENSEMBLE	
MUS 55241	TROMBONE ENSEMBLE	
MUS 55251	PERCUSSION ENSEMBLE	
MUS 55271	NEW MUSIC ENSEMBLE	
MUS 55261	BASSOON ENSEMBLE	
MUS 55281	FLUTE ENSEMBLE	
MUS 55311	CHAMBER MUSIC	

MUS 55312	WORLD MUSIC ENSEMBLE	
MUS 55321	ACCOMPANYING	
Music Theory Electives, choose from the following: <sup>4</sup>		2-4
MUS 51141	16TH-CENTURY COUNTERPOINT	
MUS 51151	18TH-CENTURY COUNTERPOINT	
MUS 61131	SCHENKERIAN ANALYSIS	
MUS 61171	ANALYTICAL TECHNIQUES I	
MUS 61172	ANALYTICAL TECHNIQUES II	
MUS 61181	POST-TONAL THEORY	
MUS 61191	SEMINAR IN MUSIC SINCE 1900	
Music History Electives, choose from the following:		4-6
MUS 52131	AMERICA'S MUSIC	
MUS 52161	HISTORY OF JAZZ	
MUS 52171	MUSIC FROM WORLD CULTURES	
MUS 62511	MUSIC HISTORY I	
MUS 62521	MUSIC HISTORY II	
MUS 62531	MUSIC HISTORY III	
MUS 62541	MUSIC HISTORY IV	
<b>Additional Requirements or Concentration</b>		
Choose from the following:		2-6
Additional Requirements for Students Not Declaring a Concentration		
Chamber Music Concentration		
Collaborative Piano Concentration		
Minimum Total Credit Hours:		32

- <sup>1</sup> Students register for 2 credit hours of applied music courses in the two semesters in which they register for MUS 68687.
- <sup>2</sup> Students register for 4 credit hours of applied music courses in two of the semesters, and register for 2 credit hours of applied music in the two semesters in which they register for MUS 68687.
- <sup>3</sup> For ensemble electives, string students register for MUS 55212 every semester; voice students may register for MUS 55131; and piano players choose from MUS 55311, MUS 55321 and music ensemble courses. Students in the Collaborative Piano concentration will register for Accompanying every semester.
- <sup>4</sup> Selection of music theory course is based on students' result from the theory placement exam. In the case of the exam results placing a student into MUS 41111, the undergraduate course will not count towards the M.M. degree and must be taken in addition to the graduate-level music theory requirements.

### Additional Requirements for Students Not Declaring a Concentration

Code	Title	Credit Hours
Major Electives, choose from the following:		
MUS 52221	SYMPHONIC LITERATURE	2-6
MUS 52241	PIANO LITERATURE I	
MUS 52242	PIANO LITERATURE II	
MUS 52251	SONG LITERATURE	
MUS 52261	OPERA LITERATURE	
MUS 55121	KENT CHORUS	
MUS 55131	OPERA:SINGER-ACTOR TECHNIQUES	
MUS 55141	KENT STATE UNIVERSITY CHORALE	
MUS 55142	CORO CANTARE	
MUS 55212	ORCHESTRA	

MUS 55223	WIND ENSEMBLE	
MUS 55231	JAZZ ENSEMBLE	
MUS 55271	NEW MUSIC ENSEMBLE	
MUS 55311	CHAMBER MUSIC	
MUS 58241	VOICE PEDAGOGY	
MUS 58257	PEDAGOGY-INSTRUMENTAL	
MUS 58611	ADVANCED SINGER'S DICTION I	
MUS 58612	ADVANCED SINGER'S DICTION II	
MUS 68214	PIANO PEDAGOGY I	
MUS 68215	PIANO PEDAGOGY II	
Any other advisor approved graduate Music (MUS) course		
Minimum Total Credit Hours:		2-6

### Chamber Music Concentration Requirements

Code	Title	Credit Hours
<b>Concentration Requirements</b>		
MUS 55311	CHAMBER MUSIC (1 credit each semester)	4
Concentration Electives, choose from the following:		0-2
MUS 55271	NEW MUSIC ENSEMBLE	
MUS 55311	CHAMBER MUSIC	
MUS 58257	PEDAGOGY-INSTRUMENTAL	
Any other advisor approved graduate Music (MUS) course		
Minimum Total Credit Hours:		4-6

### Collaborative Piano Concentration Requirements

Code	Title	Credit Hours
<b>Concentration Requirements</b>		
Concentration Electives, choose from the following:		2-6
MUS 52241	PIANO LITERATURE I	
MUS 52242	PIANO LITERATURE II	
MUS 52251	SONG LITERATURE	
MUS 52261	OPERA LITERATURE	
MUS 55311	CHAMBER MUSIC	
MUS 58241	VOICE PEDAGOGY	
MUS 58611	ADVANCED SINGER'S DICTION I	
MUS 58612	ADVANCED SINGER'S DICTION II	
MUS 64111	CONDUCTING PROJECTS:CHORAL	
MUS 64131	CONDUCTING PROJECTS:ORCHESTRA	
MUS 68214	PIANO PEDAGOGY I	
MUS 68215	PIANO PEDAGOGY II	
Any other advisor approved graduate Music (MUS) course		
Minimum Total Credit Hours:		2-6

## World Music- Minor

### College of the Arts

School of Music

E101 Center for the Performing Arts

Kent Campus

330-672-2172

[schoolofmusic@kent.edu](mailto:schoolofmusic@kent.edu)

[www.kent.edu/music](http://www.kent.edu/music)

## Description

The World Music minor provides concentrated study of traditional and popular world music (style, performance, history, cultural associations and related arts). Students of any major can pursue this minor as part of their degree program.

### Fully Offered At:

- Kent Campus
- Stark Campus

## Admission Requirements

Admission to a minor is open to students declared in a bachelor's degree, the A.A.B. or A.A.S. degree or the A.T.S. degree (not Individualized Program major). Students declared only in the A.A. or A.S. degree or the A.T.S. degree in Individualized Program may not declare a minor. Students may not pursue a minor and a major in the same discipline.

## Minor Requirements

Code	Title	Credit Hours
<b>Minor Requirements</b>		
MUS 22121	MUSIC AS A WORLD PHENOMENON (DIVG) (KFA)	3
MUS 25312	WORLD MUSIC ENSEMBLE	1
MUS 42181	POPULAR WORLD MUSIC (DIVG)	3
Minor Electives, choose from the following:		6
MUS 22111	THE UNDERSTANDING OF MUSIC (KFA)	
MUS 22131	SURVEY OF ROCK MUSIC HISTORY (DIVD)	
MUS 25312	WORLD MUSIC ENSEMBLE	
World Music Electives, choose from the following:		6
MUS 42101	ROOTS OF ROCK	
MUS 42111	AFRICAN MUSIC AND CULTURES	
MUS 42131	AMERICA'S MUSIC	
MUS 42141	FOLK MUSIC OF EUROPE AND NORTH AMERICA	
MUS 42151	ASIAN MUSICS	
MUS 42161	HISTORY OF JAZZ (DIVD)	
Minimum Total Credit Hours:		19

## Graduation Requirements

Minimum Minor GPA	Minimum Overall GPA
2.250	2.000

- MUS 11110, MUS 11111, MUS 16914 and MUS 16915 will not count as credit for graduation in this program.
- Minimum 6 credit hours in the minor must be upper-division coursework (30000 and 40000 level).
- Minimum 6 credit hours in the minor must be outside of the course requirements for any major or other minor the student is pursuing.
- Minimum 50 percent of the total credit hours for the minor must be taken at Kent State (in residence).

## School of Theatre and Dance

College of the Arts

School of Theatre and Dance  
Center for the Performing Arts  
Kent Campus  
[www.kent.edu/theatredance](http://www.kent.edu/theatredance)

Dance Division  
D101 Center for the Performing Arts  
330-672-2069  
[dance@kent.edu](mailto:dance@kent.edu)

Theatre Division  
B141 Center for the Performing Arts  
330-672-2082  
[theatre@kent.edu](mailto:theatre@kent.edu)

## Undergraduate Programs

- Dance - B.F.A.
- Dance Studies - B.A.
- Musical Theatre - B.F.A.
- Theatre Design, Technology and Production - B.F.A.
- Theatre Studies - B.A.

## Minors

- Costume Design and Technology
- Dance
- Dance Accompaniment
- Lighting Design and Technology
- Scene Design
- Scenic Technology
- Theatre and Social Change
- Theatre Management
- Theatre Performance
- Theatre Sound

## Graduate Programs

- Acting for the Returning Professional - M.F.A.
- Theatre Design and Technology - M.F.A.

## School of Theatre and Dance Faculty

- Bauer, Kerry J. (2014), Assistant Professor, M.F.A., Ohio University, 1995
- Black, Maryann P. (2002), Assistant Professor, M.F.A., Kent State University, 2007
- Black, Jennifer (2019), Assistant Professor, 2019
- Brown, Courtney (2014), Associate Professor, M.F.A., University of Southern Mississippi, 2008
- Campbell, Sharon S. (1989), Associate Professor, M.F.A., The Ohio State University, 1982
- Crawford-Spinelli, John R. (1988), Professor & College Dean, Ed.D., Temple University, 1989
- Drashner, Nicholas D. (2015), Assistant Professor, M.F.A., University of California, San Diego, 2012
- Fritsche, Amy (2013), Associate Professor, M.F.A., San Diego State University, 2010



- Honesty, Tamara L. (2016), Assistant Professor, M.F.A., West Virginia University, 1996
- Humes, Thomas W. (2019), Assistant Professor
- Hurley, Paul (2018), Assistant Professor, M.F.A., University of Delaware, 2007
- Huya, Natalie J. (2003), Associate Lecturer, M.A., Villanova University, 2001
- Karpanty, Kimberly A. (1995), Professor, M.F.A., Arizona State University, 2003
- Keenan, Grace A. (2004), Assistant Professor, M.F.A., Penn State University, 2012
- Kent, Therese J. (1991), Professor, M.F.A., Michigan State University, 1987
- Kildow, Eric S. (2015), Assistant Professor, M.F.A., Savannah College of Art and Design, 2009
- King, Gregory (2016), Assistant Professor, Southern Methodist University, 2010
- Korecki, Jennifer S. (2012), Assistant Professor, M.M., Kent State University, 1996
- Kurahashi, Yuko (2001), Professor, Ph.D., Indiana University, Bloomington, 1996
- Meredith, Catherine E. (2019), Assistant Professor, M.F.A., Hollins University, 2011
- Nadon, Daniel R. (1993), Professor, Ph.D., University of Colorado, Boulder, 1993
- Pauna, Steven R. (2013), Associate Professor, M.F.A., Kent State University, 2000
- Polanco, Fabio J. (2009), Associate Professor, M.F.A., Case Western Reserve University, 1997
- Rockland, Jeffrey M. (2015), Associate Professor, M.F.A., University of California, Irvine, 1992
- Seo, Jakyung (2009), Associate Professor, M.F.A., University of Illinois-Urbana, Champaign, 2004
- Souza, Michelle H. (2019), Assistant Professor
- Stillings, Cynthia R. (1992), Professor & Interim Graduate Dean & Associate Dean, M.F.A., University of Wisconsin, Madison, 1988
- Swoboda, Jonathan F. (2008), Associate Professor, M.M., University of Nebraska, Omaha, 1997
- Van Baars, Frans E. (1993), Associate Professor & School Director, M.F.A., Kent State University, 2002
- Verlezza, Barbara A. (2002), Associate Professor, M.F.A., Northern Illinois University, 2005
- Weaver, James A. (2007), Assistant Professor

## Dance (DAN)

### DAN 17001 STUDIO MODERN I 1 Credit Hour

(Repeatable for credit) Practice of basic modern dance technique. Open to all university students.

**Prerequisite:** None.

**Schedule Type:** Studio

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

### DAN 17002 STUDIO MODERN DANCE II 1 Credit Hour

(Repeatable for credit) Exploration of modern dance technique foundations and improvisation with emphasis on the movement and performing qualities of modern dance. Open to all university students.

**Prerequisite:** DAN 17001.

**Schedule Type:** Studio

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

### DAN 17004 STUDIO JAZZ I 1 Credit Hour

(Repeatable for credit) Practice of basic jazz techniques. Open to all university students.

**Prerequisite:** None.

**Schedule Type:** Studio

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

### DAN 17005 STUDIO JAZZ II 1 Credit Hour

(Repeatable for credit) Continuation of jazz dance technique foundations with emphasis on more advanced dance combinations. Open to all university students.

**Prerequisite:** DAN 17004.

**Schedule Type:** Studio

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

### DAN 17007 STUDIO TAP I 1 Credit Hour

(Repeatable for credit) Basic tap steps and combinations with varying sound intensities and rhythms. Open to all university students.

**Prerequisite:** None.

**Schedule Type:** Studio

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

### DAN 17008 STUDIO TAP II 1 Credit Hour

(Repeatable for credit) Continuation of tap dance technique foundations with emphasis on more advanced dance combinations.

**Prerequisite:** DAN 17007.

**Schedule Type:** Studio

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

### DAN 17009 STUDIO TAP III 1 Credit Hour

(Repeatable for a maximum of 8 credit hours) Advanced tap dance techniques with emphasis on clarity, speed and performance skills.

**Prerequisite:** DAN 17008.

**Schedule Type:** Studio

**Contact Hours:** 1 other

**Grade Mode:** Standard Letter

### DAN 17010 STUDIO BALLET I 1 Credit Hour

(Repeatable for credit) Introduction to the foundations of ballet placement, vocabulary and movement for the beginner. Open to all university students.

**Prerequisite:** None.

**Schedule Type:** Studio

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**DAN 17011 STUDIO BALLET II 1 Credit Hour**

(Repeatable for credit) Continuation of ballet technique foundations with emphasis on more advanced dance combinations. Open to all university students.

**Prerequisite:** DAN 17010.

**Schedule Type:** Studio

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**DAN 17012 STUDIO BALLET III 1 Credit Hour**

(Repeatable for credit) This course presents high intermediate ballet techniques for the serious non-major dance student. Students will apply the principles of body alignment to an ever expanding movement vocabulary. Intricate combinations in adagio, petite and grand allegro and turns will be offered. Focus will be on the strength, flexibility and endurance required to master movements at this more advanced level.

**Prerequisite:** DAN 17011.

**Schedule Type:** Studio

**Contact Hours:** 2 other

**Grade Mode:** Standard Letter

**DAN 17013 STUDIO AFRICAN DANCE I 1 Credit Hour**

(Repeatable for credit) Designed to acquaint students with basic elements of African dance. Open to all university students.

**Prerequisite:** None.

**Schedule Type:** Studio

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**DAN 17016 STUDIO SWING DANCE I 1 Credit Hour**

(Repeatable for credit) Practice of basic swing dance movements with emphasis on social partnering skills. Open to all students.

**Prerequisite:** None.

**Schedule Type:** Studio

**Contact Hours:** 1 other

**Grade Mode:** Standard Letter

**DAN 17019 STUDIO HIP HOP I 1 Credit Hour**

(Repeatable for credit) Introduction to Hip Hop dance including warm-up techniques, movement across the floor and dance combinations. Open to all university students. No previous experience is necessary.

**Prerequisite:** None.

**Schedule Type:** Studio

**Contact Hours:** 2 other

**Grade Mode:** Standard Letter

**DAN 17020 STUDIO HIP HOP II 1 Credit Hour**

(Repeatable for credit) Hip Hop II is for students with previous experience in hip hop and will explore in greater depth fundamentals, history, technique and personal style.

**Prerequisite:** DAN 17019.

**Schedule Type:** Studio

**Contact Hours:** 2 other

**Grade Mode:** Standard Letter

**DAN 17049 FUNDAMENTALS OF BALLET AND MODERN DANCE 2 Credit Hours**

(Repeatable for credit) Introduction to intensive exploration of ballet and modern dance technique for nonmajors with special emphasis on alignment, body awareness and movement vocabulary.

**Prerequisite:** DAN 17001 and 17010.

**Schedule Type:** Studio

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**DAN 17050 INTRODUCTION TO DANCE 1 Credit Hour**

Overview of modern dance as a performing art. Specifically focusing on preparation, basic knowledge and career choices.

**Prerequisite:** Dance major; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 1 lecture

**Grade Mode:** Standard Letter

**DAN 17051 MODERN DANCE TECHNIQUE I-A 3 Credit Hours**

(Repeatable for credit) Development of skill acquisition in basic technique, understanding and appreciation for the creative nature of dance through exposure to improvisational experiences.

**Prerequisite:** Dance major; and special approval.

**Schedule Type:** Studio

**Contact Hours:** 9 other

**Grade Mode:** Standard Letter

**DAN 17052 BALLET I-A 2 Credit Hours**

(Repeatable for credit) Ballet techniques: pre-barre; beginning barre and beginning center work.

**Prerequisite:** Dance major; and special approval.

**Schedule Type:** Studio

**Contact Hours:** 6 other

**Grade Mode:** Standard Letter

**DAN 17053 PRINCIPLES OF DANCE MECHANICS I 2 Credit Hours**

The study and application of alignment and basic movement principles to dance techniques.

**Prerequisite:** Dance major; and special approval.

**Corequisite:** DAN 17051 or 17052.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**Attributes:** TAG Arts and Humanities

**DAN 17055 STUDIO MEN'S BALLET 1 Credit Hour**

(Repeatable for credit) Men's Ballet allows male- identifying students to receive training to enhance their ballet skills. Goals include improving overall placement and ballet technique while focusing on style and movements particular to the male danseur.

**Prerequisite:** Special approval.

**Schedule Type:** Studio

**Contact Hours:** 2 other

**Grade Mode:** Standard Letter

**DAN 17080 MUSICAL THEATRE RUDIMENTS OF JAZZ AND TAP 1 Credit Hour**

Rudiments of Jazz and Tap will lay the foundation of beginning musical theatre Jazz and Tap. The beginning student will learn proper vocabulary and proper alignment for both mediums of dance.

**Prerequisite:** Special approval.

**Schedule Type:** Studio

**Contact Hours:** 2 other

**Grade Mode:** Standard Letter

**DAN 17100 STUDIO POINTE I 1 Credit Hour**

(Repeatable for credit) Studio Pointe I allows students with previous experience dancing en pointe to work at the beginning to low intermediate level. The class explores ballet vocabulary and repertory at the barre, center, and travelling across the space, specifically in pointe shoes.

**Prerequisite:** Special approval.

**Schedule Type:** Studio

**Contact Hours:** 2 other

**Grade Mode:** Standard Letter

**DAN 17150 STUDIO POINTE II 1 Credit Hour**

(Repeatable for credit) Studio Pointe II allows students with previous experience dancing en pointe to continue to work at the intermediate to advanced level. The class explores ballet vocabulary and repertory at the barre, center, and travelling across the space, specifically in pointe shoes, building on concepts and vocabulary learned in Studio Pointe II; although experienced students may be permitted directly in to Studio Pointe II with the instructor's permission. Emphasis is placed on execution, development thereof, application of corrections, and performance expression.

**Prerequisite:** Special approval.

**Schedule Type:** Studio

**Contact Hours:** 2 other

**Grade Mode:** Standard Letter

**DAN 17151 MODERN DANCE TECHNIQUE I-B 3 Credit Hours**

(Repeatable for credit) Continued exploration of basic modern dance technique and improvisation begun in DAN 17051. Continued study of dance innovators and their historical significance.

**Prerequisite:** DAN 17051; and dance major; and special approval.

**Schedule Type:** Studio

**Contact Hours:** 9 other

**Grade Mode:** Standard Letter

**DAN 17152 BALLET I-B 2 Credit Hours**

(Repeatable for credit) Continuation of ballet techniques studied in DAN 17052.

**Prerequisite:** DAN 17052; and dance major; and special approval.

**Schedule Type:** Studio

**Contact Hours:** 6 other

**Grade Mode:** Standard Letter

**DAN 27070 JAZZ STYLES I 2 Credit Hours**

(Repeatable for credit) Development of basic jazz dance skills for dance majors and minors.

**Prerequisite:** Special approval.

**Schedule Type:** Studio

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**DAN 27071 MODERN DANCE TECHNIQUE II-A 3 Credit Hours**

(Repeatable for credit) Intermediate modern dance styles emphasizing complex movement phrases.

**Prerequisite:** DAN 17051; and special approval.

**Schedule Type:** Studio

**Contact Hours:** 9 other

**Grade Mode:** Standard Letter

**DAN 27072 BALLET II-A 2 Credit Hours**

(Repeatable for credit) Intermediate ballet technique.

**Prerequisite:** DAN 17152; and dance major; and special approval.

**Schedule Type:** Studio

**Contact Hours:** 6 other

**Grade Mode:** Standard Letter

**DAN 27074 DANCE COMPOSITION I 3 Credit Hours**

(Repeatable for a maximum of 6 credit hours) Movement exploration and improvisation including developing the body as an instrument of expression.

**Prerequisite:** Special approval.

**Schedule Type:** Studio

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**Attributes:** TAG Arts and Humanities

**DAN 27076 DANCE AS AN ART FORM (DIVG) (KFA) 3 Credit Hours**

Survey of the various types, styles and functions of dance with emphasis on understanding dance as an art form and an expression of culture.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Diversity Global, Kent Core Fine Arts, Transfer Module Fine Arts

**DAN 27080 MUSICAL THEATRE JAZZ AND TAP I 2 Credit Hours**

This course serves the advanced beginner to intermediate level musical theatre dance student. Students will build on the foundation of Rudiments of Jazz and Tap. They will learn more difficult concepts and steps and work to apply those concepts and steps in their dancing.

**Prerequisite:** DAN 17080; and special approval.

**Schedule Type:** Studio

**Contact Hours:** 4 other

**Grade Mode:** Standard Letter

**DAN 27170 JAZZ STYLES II 2 Credit Hours**

(Repeatable for credit) Continued development of basic jazz dance skills.

**Prerequisite:** DAN 27070; and special approval.

**Schedule Type:** Studio

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**DAN 27171 MODERN DANCE TECHNIQUE II-B 3 Credit Hours**

(Repeatable for credit) Continuation of intermediate level dance styles with emphasis on complex movement phrases.

**Prerequisite:** DAN 27071; and special approval.

**Schedule Type:** Studio

**Contact Hours:** 9 other

**Grade Mode:** Standard Letter

**DAN 27172 BALLET II-B 2 Credit Hours**

(Repeatable for credit) Continuation of intermediate ballet technique.

**Prerequisite:** DAN 27072; and special approval.

**Schedule Type:** Studio

**Contact Hours:** 6 other

**Grade Mode:** Standard Letter

**DAN 28010 DANCE ACCOMPANIMENT LABORATORY I 2 Credit Hours**

(Course is repeatable for a maximum of 4 credit hours) Students will be introduced to the techniques and strategies of modern dance and ballet technique class accompaniment. Emphasis is placed on supervised student accompaniment and acquiring familiarity with dance class protocols, procedures, and the accompanist-instructor relationship. Course meets concurrently with one of the professional-level modern dance or ballet technique classes offered by the Dance Division.

**Prerequisite:** None.

**Schedule Type:** Laboratory

**Contact Hours:** 4 lab

**Grade Mode:** Standard Letter

**DAN 37035 DANCE COMPOSITION II 2 Credit Hours**

Basic principles of dance composition with attention to design, thematic material, structure, form and small groups.

**Prerequisite:** DAN 27074; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**DAN 37053 PRINCIPLES OF DANCE MECHANICS II 2 Credit Hours**

(Repeatable for a maximum of 16 credit hours) Continuation of DAN 17053.

**Prerequisite:** DAN 17053; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**DAN 37057 DANCE FOR CHILDREN 3 Credit Hours**

(Repeatable for a maximum of 6 credit hours) The theory and practice of children's dance in the pre-school, elementary, middle schools, private studio and recreation settings.

**Prerequisite:** Dance or Early Childhood Education major.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**DAN 37058 METHODS AND MATERIALS OF DANCE 3 Credit Hours**

(Repeatable for a maximum of 6 credit hours) Theory and practice of teaching dance technique from middle school to adults with an emphasis on modern dance.

**Prerequisite:** DAN 37057; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**DAN 37067 BALLET III-A 2 Credit Hours**

(Repeatable for a maximum of 8 credit hours) Advanced ballet technique.

**Prerequisite:** DAN 27172; and special approval.

**Schedule Type:** Studio

**Contact Hours:** 6 other

**Grade Mode:** Standard Letter

**DAN 37068 MODERN DANCE TECHNIQUE III-A 3 Credit Hours**

(Repeatable for a maximum of 15 credit hours) Advanced modern dance technique.

**Prerequisite:** DAN 27171; and special approval.

**Schedule Type:** Studio

**Contact Hours:** 9 other

**Grade Mode:** Standard Letter

**DAN 37070 DANCE COMPOSITION III 2 Credit Hours**

(Repeatable for a maximum of 8 credit hours) Development of individual movement style through improvisational studies and movement manipulation exercises of structure and form resulting in a substantial solo modern dance work.

**Prerequisite:** DAN 37035; and special approval.

**Schedule Type:** Studio

**Contact Hours:** 2 other

**Grade Mode:** Standard Letter

**DAN 37071 MOVEMENT NOTATION 2 Credit Hours**

Analyzing and recording human movement. The common aspects of movement in all forms of sports, dance and aquatics. Analysis and recording with the labanotation system.

**Prerequisite:** Dance major; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**DAN 37072 DANCE AND TECHNOLOGY 2 Credit Hours**

This course introduces students to new technologies as resources for creative expression, performance and documentation of dance. Students will learn a brief history of screen dance, techniques for archiving dance, shooting and editing video with dance as the subject and approaches to interactive performance. Students will gain a basic understanding of how new media interacts with current practice in dance creation, production, education and research.

**Prerequisite:** Dance major or minor; and special approval.

**Schedule Type:** Combined Lecture and Lab

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**DAN 37080 MUSICAL THEATRE JAZZ AND TAP II 2 Credit Hours**

This class is a continuation of the building of jazz and tap skills, as the steps increase in difficulty. Course will incorporate sequencing of transition steps which smoothly connect one set of steps to another.

**Prerequisite:** DAN 27080; and special approval.

**Schedule Type:** Studio

**Contact Hours:** 4 other

**Grade Mode:** Standard Letter

**DAN 37081 MUSICAL THEATRE JAZZ AND TAP III 2 Credit Hours**

Continuation of Jazz and Tap techniques building on skills suitable for and required in professional audition circumstances. Course will assist advanced student to fine tune jazz and tap skills for auditions.

**Prerequisite:** DAN 37080; and special approval.

**Schedule Type:** Studio

**Contact Hours:** 4 other

**Grade Mode:** Standard Letter

**DAN 37167 BALLET III-B 2 Credit Hours**

(Repeatable for credit) Continuation of advanced ballet technique.

**Prerequisite:** DAN 37067; and special approval.

**Schedule Type:** Studio

**Contact Hours:** 6 other

**Grade Mode:** Standard Letter

**DAN 37168 MODERN DANCE TECHNIQUE III-B 3 Credit Hours**

(Repeatable for credit) Continuation of advanced modern dance technique.

**Prerequisite:** DAN 37068; and special approval.

**Schedule Type:** Studio

**Contact Hours:** 9 other

**Grade Mode:** Standard Letter

**DAN 37170 DANCE COMPOSITION IV 1 Credit Hour**

Exploration of advanced composition skills in preparation for the B.F.A. senior choreography project and future choreographic endeavors.

**Prerequisite:** DAN 37070; and special approval.

**Schedule Type:** Studio

**Contact Hours:** 1 other

**Grade Mode:** Standard Letter

**DAN 37192 DANCE PRACTICUM (ELR) 1 Credit Hour**

(Repeatable for a total of 4 hours) practical experience in co-curriculum dance activities under faculty supervision.

**Prerequisite:** Special approval.

**Schedule Type:** Practical Experience, Studio

**Contact Hours:** 3 other

**Grade Mode:** Satisfactory/Unsatisfactory

**Attributes:** Experiential Learning Requirement

**DAN 37272 KENT DANCE ENSEMBLE 2 Credit Hours**

(Repeatable for credit) Participation in rehearsal, preparation and performance of public dance concerts in an established dance ensemble.

**Prerequisite:** Special approval.

**Schedule Type:** Studio

**Contact Hours:** 6 other

**Grade Mode:** Standard Letter

**DAN 37310 MUSIC FOR DANCERS 3 Credit Hours**

Students will build theoretical, analytical and performance skills in music specific to the needs of dancers, dance teachers and choreographers.

**Prerequisite:** Special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**DAN 38001 APPLIED SKILLS FOR DANCE ACCOMPANIMENT 2 Credit Hours**

(Course is repeatable for a maximum of 8 credit hours) Private applied music instruction in performance skills necessary to accompany a modern dance or ballet class. Emphasis is placed on hand drum and frame drum technique, keyboard repertoire, and keyboard improvisation skills.

**Prerequisite:** DAN 28010.

**Schedule Type:** Private Lesson

**Contact Hours:** 1.5 other

**Grade Mode:** Standard Letter

**DAN 38010 DANCE ACCOMPANIMENT LABORATORY II 1-4 Credit Hours**

(Course is repeatable) Students will receive intermediate and advanced instruction in modern dance or ballet technique class accompaniment. Emphasis will be placed on continued development of accompaniment strategies for specific styles of movement and increasing the students' range of accompaniment repertoire and improvisational vocabulary.

**Prerequisite:** Two semesters of DAN 28010; and special approval.

**Schedule Type:** Laboratory

**Contact Hours:** 2-8 other

**Grade Mode:** Standard Letter

**DAN 47055 BALLET IV-A 2 Credit Hours**

(Repeatable for credit) A continuation of DAN 37167 with increasing clarity and control of movements.

**Prerequisite:** DAN 37167.

**Schedule Type:** Studio

**Contact Hours:** 6 other

**Grade Mode:** Standard Letter

**DAN 47060 PROFESSIONAL ASPECTS IN DANCE 2 Credit Hours**

Development of pragmatic skills for entrance into professional dance careers. Emphasis on resume writing, preparation for auditions and economic survival.

**Prerequisite:** DAN 27170; and special approval.

**Schedule Type:** Studio

**Contact Hours:** 2 other

**Grade Mode:** Standard Letter

**DAN 47063 DANCE HISTORY I 3 Credit Hours**

History of dance from antiquity to 1900.

**Prerequisite:** Dance major; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** TAG Arts and Humanities

**DAN 47070 JAZZ STYLES III 2 Credit Hours**

(Repeatable for credit) Jazz style for students with advanced dance technique.

**Prerequisite:** DAN 27170; and special approval.

**Schedule Type:** Studio

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**DAN 47080 MUSICAL THEATRE DANCE STYLES I 2 Credit Hours**

Advanced Jazz and Tap class for Musical Theatre students to develop the stylization skills of musical theatre dance and performance. Students will work on stylization of movement by learning three different production numbers. One of a vernacular style, one classic style, and one involving partnering.

**Prerequisite:** DAN 37081; and special approval.

**Schedule Type:** Studio

**Contact Hours:** 4 other

**Grade Mode:** Standard Letter

**DAN 47081 MUSICAL THEATRE DANCE STYLES II 2 Credit Hours**

Students will work to prepare a professional dance reel (a video record of their skills and accomplishments). The student's skills will include various media (jazz, tap, ballet, gymnastics, partnering, etc.) and styles (Charleston, Swing, Waltz, dances of the 50s, 60s, 70s, etc.). Students will be ready to submit dance reels, which they will prepare in the course of the semester. Provisions will be made for those students who do not desire or require a dance reel.

**Prerequisite:** DAN 47080; and special approval.

**Schedule Type:** Studio

**Contact Hours:** 4 other

**Grade Mode:** Standard Letter

**DAN 47095 SPECIAL TOPICS IN DANCE 1-3 Credit Hours**

(Repeatable for a total of 24 hours) offered when resources permit a topic different from existing courses. Topic to be announced when scheduled.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 1-3 lecture

**Grade Mode:** Standard Letter

**DAN 47155 BALLET IV-B 2 Credit Hours**

(Repeatable for credit) A continuation of DAN 47055 with increasing clarity and dynamic expression.

**Prerequisite:** DAN 47055; and special approval.

**Schedule Type:** Studio

**Contact Hours:** 6 other

**Grade Mode:** Standard Letter

**DAN 47156 DANCE PRODUCTION 3 Credit Hours**

Study of elements involved in planning and implementing a concert. Experiential work in technical and management components.

**Prerequisite:** Dance major; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**DAN 47163 DANCE HISTORY II (WIC) 3 Credit Hours**

History of the development of concert and theatrical dance forms from 1900 to present day.

**Prerequisite:** DAN 47063; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Writing Intensive Course



**DAN 47170 JAZZ STYLES IV 2 Credit Hours**

(Repeatable for credit) Continuation of DAN 47070.

**Prerequisite:** DAN 47070; and special approval.**Schedule Type:** Studio**Contact Hours:** 3 other**Grade Mode:** Standard Letter**DAN 47174 SENIOR CHOREOGRAPHY PROJECT (ELR) 1 Credit Hour**

Creation of a modern dance work to be performed with full production values in an approved setting.

**Prerequisite:** DAN 37170; and special approval.**Schedule Type:** Studio**Contact Hours:** 1 other**Grade Mode:** Standard Letter-IP**Attributes:** Experiential Learning Requirement**DAN 47175 CAPSTONE PROJECT (ELR) 1-3 Credit Hours**

The capstone project represents a culminating event for the student. Capstone projects can be taken in the junior or senior year and are identified in consultation with a faculty advisor. Honor students may combine the capstone project with an Honors thesis.

**Prerequisite:** Junior standing; and special approval.**Schedule Type:** Senior Project/Honors Thesis**Contact Hours:** 1-3 other**Grade Mode:** Satisfactory/Unsatisfactory**Attributes:** Experiential Learning Requirement**DAN 47192 INTERNSHIP IN DANCE (ELR) 1 Credit Hour**

(Repeatable for credit) Supervised dance apprenticeship in an approved educational setting.

**Prerequisite:** Dance major; and special approval.**Schedule Type:** Practical Experience**Contact Hours:** 3 other**Grade Mode:** Standard Letter**Attributes:** Experiential Learning Requirement**DAN 47196 INDIVIDUAL INVESTIGATION IN DANCE 1-3 Credit Hours**

(Repeatable for credit) Individual projects for dance majors.

**Prerequisite:** Junior standing; and special approval.**Schedule Type:** Individual Investigation**Contact Hours:** 1-3 other**Grade Mode:** Standard Letter-IP**DAN 47525 STUDENT TEACHING IN DANCE (ELR) 9 Credit Hours**

This experience provides for a full semester of student teaching in the broadest range of multi-age school settings.

**Prerequisite:** DAN 47192; Dance major and admission to student teaching and Official valid certification of Child Safety Training, approved Basic Life Support and ALICE Training must be presented to the campus office of clinical experience or designated faculty/staff at Regional campuses as prerequisite for student teaching; and special approval.**Schedule Type:** Practical Experience**Contact Hours:** 9 other**Grade Mode:** Satisfactory/Unsatisfactory-IP**Attributes:** Experiential Learning Requirement

## Kent Blossom Theatre (KBT)

**KBT 22092 PRACTICUM I:DESIGN/TECHNOLOGY (ELR) 3 Credit Hours**

(Repeatable for a maximum of 12 credit hours) Practical experience in theatre production under faculty supervision. Available for lower division students only.

**Prerequisite:** Freshman and sophomore standing only.**Schedule Type:** Practical Experience**Contact Hours:** 3 other**Grade Mode:** Satisfactory/Unsatisfactory**Attributes:** Experiential Learning Requirement**KBT 22192 PRACTICUM I:PERFORMANCE (ELR) 3 Credit Hours**

(Repeatable for a total of 12 hours) practical experience in theatre performance under faculty supervision. Available for lower division students only. Repeatable for a total of 12 hours.

**Prerequisite:** Freshman and sophomore standing only.**Schedule Type:** Practical Experience**Contact Hours:** 3 other**Grade Mode:** Satisfactory/Unsatisfactory**Attributes:** Experiential Learning Requirement**KBT 41096 INDIVIDUAL STUDY:THEATRE 1-3 Credit Hours**

(Repeatable for a total of 12 hours) Selected research topics in theatre.

**Prerequisite:** Permission.**Schedule Type:** Individual Investigation**Contact Hours:** 1-3 other**Grade Mode:** Standard Letter-IP**KBT 41992 THEATRE PRODUCTION INTERNSHIP (ELR) 1-6 Credit Hours**

(Repeatable for a maximum of 12 credit hours) Intensive advanced training in practical aspects of production. Periodic seminars, laboratory sessions and performance in Porthouse Theatre Company.

**Prerequisite:** Junior standing; and special approval.**Schedule Type:** Practical Experience**Contact Hours:** 1-6 other**Grade Mode:** Satisfactory/Unsatisfactory**Attributes:** Experiential Learning Requirement**KBT 42092 PRACTICUM II: DESIGN/TECHNOLOGY (ELR) 3 Credit Hours**

(Repeatable for a maximum of 12 credit hours) Advanced practical experience in theatre production under faculty supervision. Available for upper division students only.

**Prerequisite:** Junior and senior standing only.**Schedule Type:** Practical Experience**Contact Hours:** 3 other**Grade Mode:** Satisfactory/Unsatisfactory**Attributes:** Experiential Learning Requirement**KBT 42192 PRACTICUM II:PERFORMANCE (ELR) 3 Credit Hours**

(Repeatable for a maximum of 12 credit hours) Advanced practical experience in theatre performance under faculty supervision. Available for upper division students only.

**Prerequisite:** Junior and senior standing.**Schedule Type:** Practical Experience**Contact Hours:** 3 other**Grade Mode:** Satisfactory/Unsatisfactory**Attributes:** Experiential Learning Requirement

**KBT 60199 M.F.A.. THESIS 3 Credit Hours**

(Repeatable for credit) Students must register for course during the semester of their MFA thesis project.

**Prerequisite:** Graduate standing; and special approval of adviser.

**Schedule Type:** Masters Thesis

**Contact Hours:** 3 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**KBT 60992 PROFESSIONAL THEATRE INTERNSHIP I 1,6 Credit Hour**

(Cross-listed with THEA 60992) (Repeatable once for credit) Intensive advanced training in practical aspects of production. Periodic seminars, laboratory sessions and performance in the Porthouse Theatre Company.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Practical Experience

**Contact Hours:** 1-6 other

**Grade Mode:** Satisfactory/Unsatisfactory

**KBT 61096 INDIVIDUAL INVESTIGATION:THEATRE AND DRAMA 1-4 Credit Hours**

(Repeatable for a maximum of 6 credit hours) Independent study of an area or problem approved by divisional graduate coordinator in consultation with project director.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Individual Investigation

**Contact Hours:** 1-4 other

**Grade Mode:** Standard Letter-IP

**KBT 61992 PROFESSIONAL THEATRE INTERNSHIP II 1,6 Credit Hour**

Intensive advanced training in practical aspects of production. Periodic seminars, laboratory sessions and performance in Porthouse Theatre Company.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Practical Experience

**Contact Hours:** 1-6 other

**Grade Mode:** Satisfactory/Unsatisfactory

**KBT 62092 PRACTICUM: DESIGN/TECHNOLOGY 3 Credit Hours**

(Repeatable for credit) Practical experience for the graduate student in theatre design and technology under faculty supervision.

**Prerequisite:** Graduate standing.

**Schedule Type:** Practical Experience

**Contact Hours:** 3 other

**Grade Mode:** Satisfactory/Unsatisfactory

**KBT 62192 PRACTICUM:PERFORMANCE 3 Credit Hours**

(Repeatable for a maximum of 12 credit hours) (Cross-listed with THEA 62192) Practical experience for the graduate student in theatre performance under faculty supervision.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Practical Experience

**Contact Hours:** 3 other

**Grade Mode:** Satisfactory/Unsatisfactory

**KBT 62992 THEATRE PRODUCTION INTERNSHIP 1-6 Credit Hours**

(Repeatable for a maximum of 12 credit hours) Intensive advanced training in practical aspects of production. Periodic seminars, laboratory sessions and performance in Porthouse Theatre Company.

**Prerequisite:** Graduate standing; and special approval of adviser.

**Schedule Type:** Practical Experience

**Contact Hours:** 1-6 other

**Grade Mode:** Satisfactory/Unsatisfactory

**KBT 72992 THEATRE PRODUCTION INTERNSHIP 1-6 Credit Hours**

(Repeatable for a maximum of 12 credit hours) Intensive advanced training in practical aspects of production. Periodic seminars, laboratory sessions and performance in Porthouse Theatre Company.

**Prerequisite:** Doctoral standing; and special approval of adviser.

**Schedule Type:** Practical Experience

**Contact Hours:** 1-6 other

**Grade Mode:** Satisfactory/Unsatisfactory

## Theatre (THEA)

**THEA 11000 THE ART OF THE THEATRE (DIVG) (KFA) 3 Credit Hours**

Using the life-centered nature of theatre as a medium of analysis, this course is designed to develop critically engaged audience members who are aware of the impact, significance and historical relevance of the interconnection between culture and theatre performance.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Diversity Global, Kent Core Fine Arts, Transfer Module Fine Arts

**THEA 11100 MAKING THEATRE: CULTURE AND PRACTICE 2 Credit Hours**

Overview of theatre practices through creative experiential learning. The focus and course content combines practical and cultural experiences and culminates with a performance event that provides a solid foundation in the artistic process and an identity for the first-year theatre student.

**Prerequisite:** Special approval.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**THEA 11303 THE ART OF ACTING 3 Credit Hours**

General introduction to acting: the actor's instrument, sensory awareness, personal and group response, objectives and tactics. Basic scene work.

**Prerequisite:** Special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** TAG Arts and Humanities

**THEA 11521 GRAPHICS FOR THE THEATRE 3 Credit Hours**

An introduction to computer software currently used by professional theatre designers and technicians. These applications include image processing software, computer-aided design software and 3D visualization software.

**Prerequisite:** Special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**THEA 11722 FUNDAMENTALS OF PRODUCTION I: SCENERY, STAGECRAFT AND SOUND 2 Credit Hours**

An introduction to professional theatre production principles and practices in the areas of scenery, stagecraft and sound.

**Prerequisite:** Special approval.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**Attributes:** CTAG Performing Arts, TAG Arts and Humanities

**THEA 11723 FUNDAMENTALS OF PRODUCTION LABORATORY I: SCENERY 1 Credit Hour**

Practice in theatre production techniques in the area of scenery.

**Prerequisite:** Special approval.

**Corequisite:** THEA 11722.

**Schedule Type:** Laboratory

**Contact Hours:** 2 lab

**Grade Mode:** Standard Letter

**Attributes:** TAG Arts and Humanities

**THEA 11724 FUNDAMENTALS OF PRODUCTION LABORATORY II: PROPS AND SCENIC ART 1 Credit Hour**

Practice in theatre production techniques in the area of properties and scenic art.

**Prerequisite:** Special approval.

**Corequisite:** THEA 11722.

**Schedule Type:** Laboratory

**Contact Hours:** 2 lab

**Grade Mode:** Standard Letter

**Attributes:** CTAG Performing Arts, TAG Arts and Humanities

**THEA 11732 FUNDAMENTALS OF PRODUCTION II: COSTUMES, LIGHTING AND PROJECTIONS 2 Credit Hours**

An introduction to professional theatre production principles and practices in the areas of costumes, lighting and projections.

**Prerequisite:** Special approval.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**Attributes:** CTAG Performing Arts

**THEA 11733 FUNDAMENTALS OF PRODUCTION LABORATORY III: COSTUMES 1 Credit Hour**

Practice in theatre production techniques in the area of costumes.

**Prerequisite:** Special approval.

**Corequisite:** THEA 11732.

**Schedule Type:** Laboratory

**Contact Hours:** 2 lab

**Grade Mode:** Standard Letter

**THEA 11734 FUNDAMENTALS OF PRODUCTION LABORATORY IV: LIGHTING, SOUND AND PROJECTIONS 1 Credit Hour**

Practice in theatre production techniques in the area of lighting, sound and projections.

**Prerequisite:** Special approval.

**Corequisite:** THEA 11732.

**Schedule Type:** Laboratory

**Contact Hours:** 2 lab

**Grade Mode:** Standard Letter

**THEA 13092 BACHELOR OF FINE ARTS FRESHMAN PRACTICUM: DESIGN AND TECHNOLOGY (ELR) 1 Credit Hour**

(Repeatable for credit) Practical experience at the freshman level in theatre and dance production.

**Prerequisite:** Theatre design, technology and production major; and special approval.

**Schedule Type:** Practical Experience

**Contact Hours:** 3 other

**Grade Mode:** Satisfactory/Unsatisfactory

**Attributes:** Experiential Learning Requirement

**THEA 20202 MUSIC THEORY FOR MUSICAL THEATRE I 3 Credit Hours**

Study the basic principles and applications of music theory as it may apply to the work of a professional singing actor. It will begin by gaining a thorough understanding of the rudiments of music and progress to studying the objective and subjective aspects of music and its structure, principally pertaining to the world of musical theatre. The course is intended to establish fundamental concepts to be further explored in THEA 20202.

**Prerequisite:** Special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**THEA 20203 MUSIC THEORY FOR MUSICAL THEATRE II 3 Credit Hours**

Study the basic principles and applications of music theory as it may apply to the work of a professional singing actor. Course focuses on the interpretation of music for musical theater and serves as a continuation of the material presented in THEA 20202.

**Prerequisite:** Special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**THEA 21016 MAKEUP FOR STAGE AND SCREEN 3 Credit Hours**

Study of stage, TV and photographic makeup techniques and materials. Four lecture demonstration laboratory hours per week; special projects as assigned.

**Prerequisite:** Special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**THEA 21095 SPECIAL TOPICS IN THEATRE 1-3 Credit Hours**

(Repeatable for credit) Offered irregularly when unusual resources permit a topic different from existing courses. Topic will be announced when scheduled.

**Prerequisite:** Special approval.

**Schedule Type:** Lecture

**Contact Hours:** 1-3 lecture

**Grade Mode:** Standard Letter

**THEA 21111 SCRIPT ANALYSIS 3 Credit Hours**

Principles, theories and techniques of play script analysis for theatrical production.

**Prerequisite:** THEA 11100; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** TAG Arts and Humanities

**THEA 21201 INTRODUCTION TO AMERICAN MUSICAL THEATRE 3 Credit Hours**

The evolution of the American musical from comic opera, European operetta and African American jazz to today's commercial Broadway stage. Students engage in the traditions, identity, and socio-economic development of the quintessential American art form: Musical Theatre.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**THEA 21303 ACTING PROCESS 3 Credit Hours**

Fundamentals of naturalistic acting and interaction; development of spontaneity, believability and a sense of truth; game playing and basic stage technique.

**Prerequisite:** Special approval.

**Schedule Type:** Studio

**Contact Hours:** 2 lecture, 1 lab

**Grade Mode:** Standard Letter

**THEA 21306 MUSICAL THEATRE PERFORMANCE I 3 Credit Hours**

(Repeatable for a maximum of 12 credit hours) Performance-oriented class that will focus on techniques and styles of performance in musical theatre and cabaret from Gilbert and Sullivan to present.

**Prerequisite:** Musical theatre major.

**Schedule Type:** Studio

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**THEA 21501 SOPHOMORE PORTFOLIO REVIEW 1 Credit Hour**

Preparation and review of a portfolio of work, judged by the design technology faculty at the beginning of the spring semester. Student must pass to remain in the BFA design technology program.

**Prerequisite:** Special approval.

**Schedule Type:** Studio

**Contact Hours:** 1 other

**Grade Mode:** Satisfactory/Unsatisfactory

**THEA 21521 THEATRICAL DRAFTING 3 Credit Hours**

Drafting techniques for all design and technology students. Includes plans, elevations, sections, detailed drawings light plots.

**Prerequisite:** THEA 11521 and THEA 11722 and THEA 11723; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**THEA 21522 LIGHTING DESIGN 3 Credit Hours**

Exploration of the tools of the lighting designer applied to design choices; frequent paper design projects.

**Prerequisite:** THEA 11732 and THEA 11734; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**THEA 21523 COSTUME TECHNOLOGY 3 Credit Hours**

Study of the basics of costume construction, pattern drafting, tailoring and millinery for costumes in the performing arts. A variety of historical periods and styles are covered. Students create portfolio-quality projects.

**Prerequisite:** THEA 11732; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**THEA 21524 COSTUME DESIGN 3 Credit Hours**

Theory and practice of costume design. Emphasis on play text analysis, formation of concepts, use of design elements and principles, period styles.

**Prerequisite:** THEA 11732; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**THEA 21526 BASIC COSTUME CONSTRUCTION 3 Credit Hours**

Course is designed to provide the student with a more advanced set of sewing skills in preparation for stitcher positions in the entertainment field. Prepares students for more advanced costume technology courses.

**Prerequisite:** THEA 11732; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**THEA 21528 SOUND AND PROJECTION DESIGN AND TECHNOLOGY 3 Credit Hours**

Studies in sound design and projection design with emphasis on practical application and specific processes related to designing for theatre and dance.

**Prerequisite:** THEA 11521; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**THEA 21621 SCENE PAINTING 3 Credit Hours**

Techniques of scene painting; emphasis on a variety of techniques through practical projects.

**Prerequisite:** THEA 11722 and THEA 11724; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**THEA 21622 SCENE DESIGN 3 Credit Hours**

Theory and practice of scene design; emphasis on script analysis, formation of concepts, use of design elements and principles in period styles and genres.

**Prerequisite:** THEA 11722 and THEA 11723; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**THEA 21700 MOVEMENT I 3 Credit Hours**

Beginning exploration of technical skills emphasizing the physical components of expressive action through integration of breath, text and body conditioning.

**Prerequisite:** Special approval.

**Schedule Type:** Studio

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**THEA 21736 STAGE MANAGEMENT 3 Credit Hours**

Introduction to the skills and techniques necessary to stage manage a theatrical production. Focus on the production process, preparing for and running rehearsals and performances, paperwork and communication skills.

**Prerequisite:** Special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**THEA 21800 VOICE I 3 Credit Hours**

Breathing, physical alignment, sound and text explorations designed to develop relaxed, free and fully connected voice production for the actor. Proper use and care of the voice.

**Prerequisite:** Special approval.

**Schedule Type:** Studio

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**THEA 22092 PRACTICUM: DESIGN AND TECHNOLOGY (ELR) 1-3 Credit Hours**

(Repeatable for credit) Practical experience in theatre production under faculty supervision. Available for lower-division students only. Required of all theatre majors.

**Prerequisite:** Special approval.

**Schedule Type:** Practical Experience

**Contact Hours:** 1-3 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**Attributes:** Experiential Learning Requirement, TAG Arts and Humanities

**THEA 22192 PRACTICUM I: PERFORMANCE (ELR) 3 Credit Hours**

(Repeatable for credit) Practical experience in theatre performance under faculty supervision. Available for lower-division students only.

**Prerequisite:** Special approval.

**Schedule Type:** Practical Experience

**Contact Hours:** 3 lecture

**Grade Mode:** Satisfactory/Unsatisfactory

**Attributes:** Experiential Learning Requirement, TAG Arts and Humanities

**THEA 22292 PRACTICUM I: THEATRE MANAGEMENT (ELR) 3 Credit Hours**

(Repeatable for a maximum of 12 credit hours) Practical experience in theatre management under faculty supervision.

**Prerequisite:** Freshmen or sophomore only; and special approval.

**Schedule Type:** Practical Experience

**Contact Hours:** 3 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**Attributes:** Experiential Learning Requirement

**THEA 23092 BACHELOR OF FINE ARTS SOPHOMORE PRACTICUM: DESIGN AND TECHNOLOGY (ELR) 1 Credit Hour**

(Repeatable for credit) Practical experience at the sophomore level in theatre and dance production.

**Prerequisite:** Theatre design, technology and production major; and special approval.

**Schedule Type:** Practical Experience

**Contact Hours:** 3 other

**Grade Mode:** Satisfactory/Unsatisfactory

**Attributes:** Experiential Learning Requirement

**THEA 31110 HISTORY OF THEATRE AND DRAMA I 3 Credit Hours**

Theatre history and drama in Europe from antiquity through the renaissance.

**Prerequisite:** THEA 21111; and junior standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**THEA 31111 HISTORY OF THEATRE AND DRAMA II 3 Credit Hours**

Theatre history and drama in Europe and the United States from 1700 to the present.

**Prerequisite:** THEA 21111; and junior standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**THEA 31303 CHARACTER AND SCENE STUDY I 3 Credit Hours**

The development of character in the realistic scene.

**Prerequisite:** THEA 21303; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**THEA 31304 CHARACTER AND SCENE STUDY II 3 Credit Hours**

Further character and scene exploration; spontaneity and creative choice making.

**Prerequisite:** THEA 31303; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**THEA 31401 DIRECTING 3 Credit Hours**

Theoretical and practical work in the process of play direction; the director's mission; play analysis and design collaboration; the rehearsal process.

**Prerequisite:** Special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**THEA 31501 JUNIOR PORTFOLIO REVIEW 1 Credit Hour**

Review of a portfolio of theatre and related work, and a review of the student's academic progress and coursework judged by the design/technology faculty at the beginning of the spring semester. Student must pass to remain in the BFA program.

**Prerequisite:** Theatre design, production and technology major; and junior standing; and special approval.

**Schedule Type:** Studio

**Contact Hours:** 1 other

**Grade Mode:** Satisfactory/Unsatisfactory

**THEA 31526 FLAT PATTERNING FOR THEATRE 3 Credit Hours**

The course is designed to provide the student with a basic set of skills in flat patterning techniques, using the sloper (a basic fitted pattern from which patterns for different styles can be developed) and individualizing patterns to meet the actors costume needs. This class is also preparatory for more advanced costume technology courses.

**Prerequisite:** THEA 21526.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**THEA 31701 MOVEMENT II 3 Credit Hours**

Development of movement exploration and improvisation skills which focus on physical relationships in performance and utilize the components of energy, space and time.

**Prerequisite:** THEA 11303 or THEA 21306; and special approval.

**Schedule Type:** Studio

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**THEA 31801 VOICE II 3 Credit Hours**

Continuation of THEA 21800. Explorations involve various texts and incorporation of voice principles at a more detailed level.

**Prerequisite:** THEA 21800; and special approval.

**Schedule Type:** Studio

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter



**THEA 33092 BACHELOR OF FINE ARTS JUNIOR PRACTICUM: DESIGN AND TECHNOLOGY (ELR) 2 Credit Hours**

(Repeatable for credit) Practical experience at the junior level in theatre and dance production.

**Prerequisite:** Theatre design, technology and production major; and special approval.

**Schedule Type:** Practical Experience

**Contact Hours:** 6 other

**Grade Mode:** Satisfactory/Unsatisfactory

**Attributes:** Experiential Learning Requirement

**THEA 40091 VARIABLE TOPICS SEMINAR: DEVISING THEATRE 3 Credit Hours**

(Slashed with THEA 50091) A devised theatre event is work that has emerged and been generated by a group of people working in collaboration. Devising Theatre explores the processes of creating original performances defined and determined by its makers. Process and product originate from stimuli other than traditional play scripts. Students learn specialist techniques by developing solo and group performance pieces. Alternative modes of making theatre performances are considered.

**Prerequisite:** Special approval.

**Schedule Type:** Seminar

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**THEA 41010 THEATRE AND SOCIAL CHANGE 3 Credit Hours**

(Slashed with THEA 51010) This course interweaves the history, theory, practice and play text development in the field of theatre and social change.

**Prerequisite:** THEA 11000 or THEA 11100.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**THEA 41026 PLAYWRITING (WIC) 3 Credit Hours**

(Repeatable for a total of 6 credit hours)(Slashed with THEA 51026) Principles underlying playwriting for the contemporary theatre; analysis of short play form.

**Prerequisite:** Special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Writing Intensive Course

**THEA 41027 ADVANCED PLAYWRITING 3 Credit Hours**

(Repeatable for a maximum of 6 credit hours)(Slashed with THEA 51026) Application of principles of playwriting to the longer play and to variations from traditional realism; play analysis and composition.

**Prerequisite:** THEA 41026; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**THEA 41095 SPECIAL TOPICS IN THEATRE 1-3 Credit Hours**

(Repeatable for credit)(Slashed with THEA 51026) Course offered irregularly when unusual resources permit a topic different from existing courses. Topic will be announced when scheduled.

**Prerequisite:** Special approval.

**Schedule Type:** Lecture

**Contact Hours:** 1-3 lecture

**Grade Mode:** Standard Letter

**THEA 41096 INDEPENDENT STUDY IN THEATRE 1-3 Credit Hours**

(repeatable for a total of 6 hours) selected research topics in theatre; to be elected only after all coursework in study area completed.

**Prerequisite:** Special approval.

**Schedule Type:** Individual Investigation

**Contact Hours:** 1-3 other

**Grade Mode:** Standard Letter-IP

**THEA 41113 THEATRE IN A MULTICULTURAL AMERICA (DIVD) 3 Credit Hours**

(Slashed with THEA 51113) A study of theatre and drama in the Native American, Hispanic-American, African-American and Asian-American communities in the United States from 1980 to the present.

**Prerequisite:** Special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Diversity Domestic

**THEA 41115 LGBTQ THEATRE (DIVD) 3 Credit Hours**

(Slashed with THEA 51115) Studies of various theatrical representations of Lesbian, Gay, Bisexual, Transgender and Queer people as seen through the frameworks of history, gender theory, identity, politics, psychology, law and justice.

**Prerequisite:** Junior standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Diversity Domestic

**THEA 41130 THEATRE AND DRAMA IN AMERICA 3 Credit Hours**

(Slashed with THEA 51130) The history of theatre and drama in America from their beginnings to the present.

**Prerequisite:** THEA 21111; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**THEA 41140 AMERICAN MUSICAL THEATRE HISTORY (WIC) 3 Credit Hours**

Comprehensively examines the history of American musical theater and incorporates the exploration of musical literature in production and performance.

**Prerequisite:** Theatre major; and junior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Writing Intensive Course

**THEA 41191 VARIABLE CONTENT SEMINAR: THEATRE HISTORY, LITERATURE AND THEORY 3 Credit Hours**

(Repeatable for credit)(Slashed with THEA 51191) Seminar in theatre history and literature providing an in-depth focus on selected topics such as: African-American theatre, women in theatre, politics and theatre, theatre in a multicultural society, costume history on stage and screen.

**Prerequisite:** Special approval.

**Schedule Type:** Seminar

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**THEA 41301 ACTING FOR THE CAMERA I 3 Credit Hours**

(Slashed with THEA 51301) Introduction to the specific techniques used in film acting. The course provides students with the necessary tools to make the transition from stage acting to camera acting.

**Prerequisite:** Special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**THEA 41302 ACTING FOR THE CAMERA II 3 Credit Hours**

(Slashed with THEA 51302) Further development on the specific techniques used in film acting. The course continues to assist students in making the transition from stage acting to camera acting.

**Prerequisite:** Special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**THEA 41304 ACTING II-SCENE STUDY-MODERN AMERICAN REALISM 3 Credit Hours**

(Slashed with THEA 51304) The application of the Stanislavski and Michael Chekhov Techniques to in-depth scene study using the plays of Odets, Miller, Williams, Shanley and others.

**Prerequisite:** None.

**Schedule Type:** Studio

**Contact Hours:** 4 other

**Grade Mode:** Standard Letter

**THEA 41305 PROFESSIONAL ASPECTS: PERFORMANCE 3 Credit Hours**

(Slashed with THEA 51305) A study of the practical demands and requirements of a professional acting career with particular emphasis on audition skills. Also covered: pictures and resumes, making rounds, professional unions, casting directors, agents and managers, the job market and career prospects.

**Prerequisite:** Junior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**THEA 41306 PROFESSIONAL ASPECTS: DESIGN AND TECHNOLOGY 3 Credit Hours**

A study of the practical demands and requirements of a professional career in design and technology, including portfolio development, resumes, unions, job market, financial matters and career prospects. Use of computers as a resource and tool emphasized.

**Prerequisite:** Junior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**THEA 41307 MUSICAL THEATRE PERFORMANCE II 3 Credit Hours**

Repeatable for credit. Advanced work in musical theatre performance techniques for junior- and senior-level students. Course content includes selecting appropriate musical theatre audition material and developing contrasting selections from the musical theatre repertory. Preparation for musical theatre auditions is included.

**Prerequisite:** THEA 21306; and special approval.

**Schedule Type:** Studio

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**THEA 41308 MUSICAL THEATRE AUDITION 2 Credit Hours**

(Repeatable for a maximum of 4 credit hours)(Slashed with THEA 51308) Explore the various genres and styles of American musical theatre songs with specific emphasis on finding practical audition repertoire for each student. Performance and research will be the primary activities in the class.

**Prerequisite:** Special approval.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**THEA 41401 ADVANCED DIRECTING 3 Credit Hours**

(Slashed with THEA 51401) Advanced work in directing for the theatre. Topics include the director as creative/interpretative artist and the director and the actor; students direct individual projects.

**Prerequisite:** THEA 11303 and THEA 31401; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**THEA 41420 THEATRICAL DRAFTING II 3 Credit Hours**

(Slashed with THEA 51420) Advanced 2D and 3D drafting techniques for technical directors and theatre designers. Representation of scenery through drafting using current AutoCAD software.

**Prerequisite:** THEA 21521.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**THEA 41430 ADVANCED CONSTRUCTION THEORY 3 Credit Hours**

(Slashed with THEA 51430) The theory and practice of structural and mechanical design for theatre production. Related issues in resource management for the professional shop, including reliably predicting the performance of untraditional, unusual or unfamiliar structures and use of mathematical models, formulas, and representative diagrams.

**Prerequisite:** THEA 11722 and THEA 41560; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**THEA 41440 SHOP MANAGEMENT 3 Credit Hours**

(Slashed with THEA 51440) Study of resource management, both human and non-human, for professional and academic shops. Topics include scheduling, budgeting, health and safety, interactions with other theatre workers and leadership development.

**Prerequisite:** THEA 11722; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**THEA 41499 MUSICAL THEATRE SHOWCASE (ELR) 2 Credit Hours**

(Repeatable for credit) (Slashed with THEA 51499) Development, promotion, and presentation of a Musical Theatre showcase for industry casting personnel in New York City. Audition required prior to registration for this course.

**Prerequisite:** Senior standing; and special approval.

**Schedule Type:** Senior Project/Honors Thesis

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**Attributes:** Experiential Learning Requirement

**THEA 41501 SENIOR PORTFOLIO REVIEW 1 Credit Hour**

Review of a portfolio of theatre and related work, and a review of the student's academic progress coursework and professional potential judged by the design technology faculty at the end of the fall semester. Student must pass to remain eligible for the bfa design technology degree.

**Prerequisite:** Theatre design, production and technology major; senior standing and; special approval.

**Schedule Type:** Studio

**Contact Hours:** 1 other

**Grade Mode:** Satisfactory/Unsatisfactory

**THEA 41521 ADVANCED LIGHTING TECHNOLOGY I 3 Credit Hours**

(Slashed with THEA 51521) Advanced study of the technologies used in lighting design; conventional and intelligent fixtures, electricity, projection techniques and special effects.

**Prerequisite:** THEA 11732 and THEA 11734; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**THEA 41522 DESIGN STUDIO: LIGHTING 3 Credit Hours**

(Slashed with THEA 51522) Advanced study of lighting design, emphasizing artistic style and concept through a variety of design problems.

**Prerequisite:** THEA 21522; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**THEA 41523 SOUND DESIGN AND TECHNOLOGY I 3 Credit Hours**

(Slashed with THEA 51523) Sound design for the theatre, sound production and sound reinforcement techniques. Introduction to electronic equipment mixing consoles amplifiers speakers.

**Prerequisite:** Special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**THEA 41524 DESIGN STUDIO: COSTUME 3 Credit Hours**

(Slashed with THEA 51524) Advanced study in costume design. Genres styles in the context of performance spaces with an emphasis on research, practical considerations of costume production and communication between designer shop/personnel and designer director.

**Prerequisite:** THEA 21524; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**THEA 41525 PROPS AND CRAFTS 3 Credit Hours**

(Slashed with THEA 51525) Examination of the processes related to the creation and procurement of scenic and costume props.

**Prerequisite:** THEA 11722 and THEA 11732; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**THEA 41526 ADVANCED LIGHTING TECHNOLOGY II 3 Credit Hours**

(Slashed with THEA 51526) Course focuses on the practice of intelligent lighting programming and the technology of intelligent lighting fixtures.

**Prerequisite:** Special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**THEA 41527 SOUND DESIGN AND TECHNOLOGY II 3 Credit Hours**

(Slashed with THEA 51527) Studies in sound design, sound production and reinforcement for live performance. Advanced software applications will be explored.

**Prerequisite:** THEA 41523; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**THEA 41528 THEATRE SOUND REINFORCEMENT 3 Credit Hours**

(Slashed with THEA 51528) Studies in the theories and practice of audio mixing in support of live vocal and musical performance. Topics include wired and wireless microphones and real time digital processing of audio.

**Prerequisite:** THEA 41523; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**THEA 41529 ADVANCED WIG AND MAKEUP TECHNIQUES-STAGE AND SCREEN 3 Credit Hours**

(Slashed with THEA 51529) Advanced study of the process of designing and executing wigs and makeup with an emphasis on standards in the profession. Some prosthetic work required.

**Prerequisite:** Junior standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**THEA 41531 THEATRICAL RIGGING 3 Credit Hours**

(Slashed with THEA 51531) Course is designed to teach students the principles of stage rigging, knot tying and counterweight rigging systems used in theatrical and other live entertainment situations. Students examine the process involved in overhead applications for the theatre industry. Students learn the proper method to design and rig in theatrical environments through the explanation of tools, equipment, hardware and safety practices.

**Prerequisite:** Special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**THEA 41540 DRAPING FOR THE THEATRE I 3 Credit Hours**

(Slashed with THEA 51540) The course is designed to provide an introduction to the basics of draping and building flat patterning techniques from this knowledge as they apply to theatre.

**Prerequisite:** THEA 31526; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**THEA 41541 DRAPING FOR THE THEATRE II 3 Credit Hours**

(Slashed with THEA 51541) Course is designed to build upon skills developed in Draping for the Theatre I. Emphasis is placed on learning to drape over period undergarments such as corsetry, panniers, bustles, etc.

**Prerequisite:** THEA 31526; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**THEA 41560 THEATRE FABRICATION TECHNOLOGY 3 Credit Hours**  
(Slashed with THEA 51560) History of technical production practice, materials theory and application in scenic construction technology.

**Prerequisite:** THEA 21521; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**THEA 41562 ADVANCED PROJECTION DESIGN 3 Credit Hours**  
(Slashed with THEA 51562) Studies in projection design, digital media, and related technologies. Advanced software applications will be explored.

**Prerequisite:** THEA 11521; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**THEA 41620 HISTORY OF PERIOD STYLES FOR THEATRE DESIGNERS (WIC) 3 Credit Hours**

Students explore the way in which theatre designers approach period style in their own creative work.

**Prerequisite:** Theatre studies major; and junior standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Writing Intensive Course

**THEA 41621 PRESENTATION MEDIA 3 Credit Hours**  
(Slashed with THEA 51621) Advanced process techniques in rendering, model building and design presentation for the scenic costume and lighting designer in traditional and new media.

**Prerequisite:** THEA 11722 and THEA 11732 and THEA 21521; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**THEA 41622 DESIGN STUDIO: SCENERY 3 Credit Hours**  
(Slashed with THEA 51622) Advanced study in scenic design. Explores genres styles performance spaces, including practical considerations.

**Prerequisite:** THEA 21622; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**THEA 41624 HISTORY OF COSTUME AND TEXTILES FOR THEATRE 3 Credit Hours**

(Slashed with THEA 51624) Overview of the history of period costume and textiles in Western civilization from 1700 to 1970, a span of time commonly regarded as "popular time periods" in the practice and cannon of Western drama and the history of costume. Emphasis is placed on how theatre practitioners recreate the silhouettes of these periods in ways that make sense to a contemporary audience while using textiles available today. Students examine the social and cultural influences of clothing, recognition of historic silhouette and parallels in the artwork, literature, politics, economy and craft movements of each era of study.

**Prerequisite:** Special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**THEA 41702 MOVEMENT AND DANCE FOR ACTORS 3 Credit Hours**  
(Repeatable for a maximum of 6 credit hours)(Slashed with THEA 51702) Designed to acquaint actors with theatre dance techniques and choreographic styles by concentrating on vernacular dances used throughout musical theatre. Course combines basic ballet, jazz and tap terminology.

**Prerequisite:** Special approval.

**Schedule Type:** Studio

**Contact Hours:** 4 other

**Grade Mode:** Standard Letter

**THEA 41703 STAGE COMBAT 3 Credit Hours**  
(Repeatable for a maximum of 6 credit hours)(Slashed with THEA 51703) Introductory course focuses on creating the illusion of violence for the stage and screen. Basic instruction is given in unarmed and armed stage combat. Emphasis is on the development of technique; the process of the work; and the performance, with a focus on safety, accuracy and the fundamental techniques recognized by the Society of American Fight Directors (SAFD). Basic techniques are incorporated into short scenes to provide experience performing fights in production.

**Prerequisite:** Special approval.

**Schedule Type:** Laboratory, Lecture

**Contact Hours:** 2 lecture, 2 lab

**Grade Mode:** Standard Letter

**THEA 41726 THEATRE MANAGEMENT 3 Credit Hours**  
Principles and practices of managing theatrical-producing organizations. Problems of finance, personnel, policy, program building and public relations. Production participation as assigned.

**Prerequisite:** Junior standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**THEA 41734 COSTUME PRODUCTION MANAGEMENT 3 Credit Hours**  
(Slashed with THEA 51734) The course is designed to provide an introduction to managerial processes as they apply to costume production; the role of a shop manager, the roles of a wardrobe supervisor and wardrobe crew, and the running of a smooth technical rehearsal and production.

**Prerequisite:** Special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**THEA 41736 PRODUCTION AND STAGE MANAGEMENT 3 Credit Hours**

(Slashed with THEA 51736) Advanced investigation of the methodology used in stage managing professional theatrical productions and production management processes. Focus on production processes for various theatre, dance, opera and entertainment genres.

**Prerequisite:** Special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**THEA 41802 ENSEMBLE SINGING FOR MUSICAL THEATRE 1 Credit Hour**

(Repeatable for a maximum of 6 credit hours)(Slashed with THEA 51802) The study and performance of diverse styles specific to the musical theatre canon for mixed voices.

**Prerequisite:** Special approval.

**Schedule Type:** Studio

**Contact Hours:** 2 other

**Grade Mode:** Standard Letter



**THEA 41808 ACTING STYLES I: SHAKESPEARE 3 Credit Hours**  
(Slashed with THEA 51808) The application of acting, movement, and voice and speech techniques to sonnets, monologues, soliloquies and scenes from Shakespeare.

**Prerequisite:** Special approval.

**Schedule Type:** Studio

**Contact Hours:** 4 other

**Grade Mode:** Standard Letter

**THEA 41900 CAPSTONE PROJECT (ELR) 1-3 Credit Hours**

The capstone project represents a culminating event for the student. Capstone projects can be undertaken in the junior or senior year and are identified in consultation with a faculty advisor. Honor students may combine the capstone project with an Honors thesis.

**Prerequisite:** Junior standing; and special approval.

**Schedule Type:** Practical Experience, Senior Project/Honors Thesis

**Contact Hours:** 1-3 other

**Grade Mode:** Satisfactory/Unsatisfactory

**Attributes:** Experiential Learning Requirement

**THEA 41992 THEATRE PRODUCTION INTERNSHIP (ELR) 1-6 Credit Hours**

(Repeatable for a maximum of 12 credit hours) Intensive advanced training in practical aspects of production. Periodic seminars, laboratory sessions and performance in a theatre company.

**Prerequisite:** Junior standing; and special approval.

**Schedule Type:** Lecture, Practical Experience

**Contact Hours:** 1-6 lecture

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**Attributes:** Experiential Learning Requirement

**THEA 42092 PRACTICUM II: DESIGN AND TECHNOLOGY (ELR) 3 Credit Hours**

(Repeatable for credit) Advanced practical experience in theatre production under faculty supervision. Available for upper division students only. Required of all theatre majors.

**Prerequisite:** Juniors or senior only; and special approval.

**Schedule Type:** Practical Experience

**Contact Hours:** 3 lecture

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**Attributes:** Experiential Learning Requirement

**THEA 42101 DYE TECHNIQUES AND FABRIC MODIFICATION 3 Credit Hours**

(Slashed with THEA 52101) This course is designed to enable the artisan to identify fiber content and determine appropriate mediums for fabric dyeing. The course explores various techniques such as shabori, stamping, rubbing, and surface lifting in order to create special effects on fabrics. A collection of dye fabric samples and information will be created so student may use as a reference book.

**Prerequisite:** Junior standing; and special approval.

**Schedule Type:** Laboratory, Lecture

**Contact Hours:** 1 lecture, 4 lab

**Grade Mode:** Standard Letter

**THEA 42150 3D CHARACTERS: FOAM FABRICATION AND FIGURE FINISHING TECHNIQUES 3 Credit Hours**

(Slashed with THEA 52150) This course provides knowledge and application of the different types of plastics/foams used for 3D character building. This course is designed to enable the artisan to work with a range of materials when building atypical pieces for costumes or props.

**Prerequisite:** Junior standing; and special approval.

**Schedule Type:** Laboratory, Lecture

**Contact Hours:** 1 lecture, 4 lab

**Grade Mode:** Standard Letter

**THEA 42192 PRACTICUM II: PERFORMANCE (ELR) 3 Credit Hours**  
(Repeatable for credit) Advanced practical experience in theatre performance under faculty supervision. Available for upper division students only.

**Prerequisite:** Junior or senior standing; and special approval.

**Schedule Type:** Practical Experience

**Contact Hours:** 3 other

**Grade Mode:** Satisfactory/Unsatisfactory

**Attributes:** Experiential Learning Requirement

**THEA 42292 PRACTICUM II: THEATRE MANAGEMENT (ELR) 3 Credit Hours**

(Repeatable for a maximum of 12 credit hours) Advanced practical experience in theatre management under faculty/staff supervision. Available for upper division students only.

**Prerequisite:** Special approval.

**Schedule Type:** Practical Experience

**Contact Hours:** 3 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**Attributes:** Experiential Learning Requirement

**THEA 43092 BACHELOR OF FINE ARTS SENIOR PRACTICUM: DESIGN AND TECHNOLOGY (ELR) 2 Credit Hours**

(Repeatable for credit) Practical experience at the senior level in theatre and dance production.

**Prerequisite:** Special approval.

**Schedule Type:** Practical Experience

**Contact Hours:** 6 other

**Grade Mode:** Satisfactory/Unsatisfactory

**Attributes:** Experiential Learning Requirement

**THEA 50091 VARIABLE TOPIC SEMINAR: DEVISING THEATRE 3 Credit Hours**

A devised theatre event is work that has emerged and been generated by a group of people working in collaboration. Devising Theatre explores the processes of creating original performances defined and determined by its makers. Process and product originate from stimuli other than traditional play scripts. Students learn specialist techniques by developing solo and group performance pieces. Alternative modes of making theatre performances are considered.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Seminar

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**THEA 51010 THEATRE AND SOCIAL CHANGE 3 Credit Hours**

(Slashed with THEA 41010) This course interweaves the history, theory, practice and play text development in the field of theatre and social change.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**THEA 51026 PLAYWRITING 3 Credit Hours**

(Repeatable once for credit) Principles underlying playwriting for the contemporary theatre; analysis of short play form.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter



**THEA 51027 ADVANCED PLAYWRITING 3 Credit Hours**

(Repeatable once for credit)(Slashed with THEA 41027) Application of principles of playwriting to the longer play and to variations from traditional realism; play analysis and composition.

**Prerequisite:** THEA 51026; and graduate standing; and special approval of instructor.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**THEA 51095 SPECIAL TOPICS 1-3 Credit Hours**

(Repeatable for credit) Offered irregularly when unusual resources permit a topic.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 1-3 lecture

**Grade Mode:** Standard Letter

**THEA 51113 THEATRE IN A MULTICULTURAL AMERICA 3 Credit Hours**

A study of theatre and drama in the Native American, Hispanic American, African-American, and Asian American communities in the United States from 1980 to the present.

**Prerequisite:** Graduate standing; and special approval of instructor.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**THEA 51115 LGBTQ THEATRE 3 Credit Hours**

Studies of various theatrical representations of Lesbian, Gay, Bisexual, Transgender and Queer people as seen through the frameworks of history, gender theory, identity, politics, psychology, law, and justice.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**THEA 51130 THEATRE AND DRAMA IN AMERICA 3 Credit Hours**

The history of theatre and drama in America from their beginnings to the present.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**THEA 51191 VARIABLE CONTENT SEMINAR: THEATRE HISTORY, LITERATURE AND THEORY 3 Credit Hours**

(Repeatable for credit) Seminar focuses on selected topics in these areas, for example performance art, performance theory or theatre in a multicultural society.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Seminar

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**THEA 51301 ACTING FOR THE CAMERA I 3 Credit Hours**

An introduction to the specific techniques used in film acting. The course provides students with the necessary tools to make the transition from stage acting to camera acting.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**THEA 51302 ACTING FOR THE CAMERA II 3 Credit Hours**

Further development on the specific techniques used in film acting as applied to the Graduate Actor. The course continues to assist in making the transition from stage acting to camera acting.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**THEA 51303 ACTING I FOUNDATIONS/STANISLAVSKI AND MICHAEL CHEKHOV 3 Credit Hours**

The Stanislavski and Michael Chekhov Techniques: A thorough exploration of Stanislavski's Method of Psycho-Physical Action, and the Michael Chekhov technique including atmosphere, psychological gesture, and qualities of movement.

**Prerequisite:** Graduate standing; and special approval of instructor.

**Schedule Type:** Studio

**Contact Hours:** 4 other

**Grade Mode:** Standard Letter

**THEA 51304 ACTING II: SCENE STUDY-MODERN AMERICAN REALISM 3 Credit Hours**

The application of the Stanislavski and Michael Chekhov Techniques to in-depth scene study using the plays of Odets, Miller, Williams, Shanley and others.

**Prerequisite:** Graduate standing; and special approval of instructor.

**Schedule Type:** Studio

**Contact Hours:** 4 other

**Grade Mode:** Standard Letter

**THEA 51305 PROFESSIONAL ASPECTS: PERFORMANCE 3 Credit Hours**

(Slashed with THEA 41305) A study of the practical demands and requirements of a professional acting career with particular emphasis on audition skills. Also covered pictures and resumes, making rounds, professional unions, casting directors, agents and managers, the job market and career prospects.

**Prerequisite:** Graduate standing; and special approval of instructor.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**THEA 51308 MUSICAL THEATRE AUDITION 2 Credit Hours**

(Repeatable for a maximum of 4 credit hours) Explore the various genres and styles of American musical theatre songs with specific emphasis on finding practical audition repertoire for each student. Performance and research will be the primary activities in the class.

**Prerequisite:** Graduate standing; and special approval of instructor.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**THEA 51401 ADVANCED DIRECTING 3 Credit Hours**

Advanced work in directing for the theatre. Topics include director as creative interpretative artist, the director and the actor. Students direct individual projects.

**Prerequisite:** Graduate standing; and special approval of instructor.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**THEA 51420 THEATRICAL DRAFTING II 3 Credit Hours**

(Slashed with THEA 41420) Advanced 2D and 3D drafting techniques for technical directors and theatre designers. Representation of scenery through drafting using current AutoCAD software.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**THEA 51430 ADVANCED CONSTRUCTION THEORY 3 Credit Hours**

(Slashed with THEA 41430) The theory and practice of structural and mechanical design for theatre production. Related issues in resource management for the professional shop, including reliably predicting the performance of untraditional, unusual or unfamiliar structures and use of mathematical models, formulas, and representative diagrams. Graduate Students will cover steel construction, and cables.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**THEA 51440 SHOP MANAGEMENT 3 Credit Hours**

(Slashed with THEA 41440) Study of resource management, both human and non-human, for professional and academic shops. Topics include scheduling, budgeting, health and safety, interactions with other theatre workers and leadership development.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**THEA 51499 MUSICAL THEATRE SHOWCASE 2 Credit Hours**

(Repeatable for credit) (Slashed with THEA 41499) Development, promotion and presentation of a Musical Theatre showcase for industry casting personnel in New York City. Audition required prior to registration for this course.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Master's Project

**Contact Hours:** 2 other

**Grade Mode:** Standard Letter

**THEA 51521 ADVANCED LIGHTING TECHNOLOGY I 3 Credit Hours**

Advanced study of the technologies used in lighting design; conventional and intelligent fixtures, electricity, projection techniques and special effects.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**THEA 51522 DESIGN STUDIO: LIGHTING 3 Credit Hours**

Advanced study of lighting design, emphasizing artistic style and concept through a variety of design problems.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**THEA 51523 SOUND DESIGN AND TECHNOLOGY I 3 Credit Hours**

Sound design for the theatre, sound production and sound reinforcement techniques. Introduction to electronic equipment, mixing consoles, amplifiers, speakers.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**THEA 51524 DESIGN STUDIO: COSTUME 3 Credit Hours**

Advanced study in costume design. Genres, styles, in the context of performance spaces with an emphasis on research, practical considerations of costume production and communication between designer/shop personnel and designer/ director.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**THEA 51525 PROPS AND CRAFTS 3 Credit Hours**

Examination of the processes related to the creation and procurement of scenic and costume props.

**Prerequisite:** Graduate standing; and special approval of instructor.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**THEA 51526 ADVANCED LIGHTING TECHNOLOGY II 3 Credit Hours**

(Slashed with THEA 41526) Course focuses both on the practice of intelligent lighting programming and the technology of intelligent lighting fixtures.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**THEA 51527 SOUND AND DESIGN TECHNOLOGY II 3 Credit Hours**

(Slashed with THEA 41527) Studies in sound design, sound production and reinforcement for live performance. Advanced software applications will be explored.

**Prerequisite:** THEA 51523; and graduate standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**THEA 51528 THEATRE SOUND REINFORCEMENT 3 Credit Hours**

Studies in the theories and practice of audio mixing in support of live vocal and musical performance. Topics include wired and wireless microphones and real time digital processing of audio. rerequisite: Graduate standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**THEA 51529 ADVANCED WIG AND MAKEUP TECHNIQUES-STAGE AND SCREEN 3 Credit Hours**

Advanced study of the process of designing and executing wigs and makeup with an emphasis on standards in the profession. Some prosthetic work required.

**Prerequisite:** Graduate standing; and special approval of instructor.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**THEA 51531 THEATRICAL RIGGING 3 Credit Hours**

(Slashed with THEA 41531) Course is designed to teach students the principles of stage rigging, knot tying and counterweight rigging systems used in theatrical and other live entertainment situations. Students examine the process involved in overhead applications for the theatre industry. Students learn the proper method to design and rig in theatrical environments through the explanation of tools, equipment, hardware and safety practices.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**THEA 51540 DRAPING FOR THE THEATRE I 3 Credit Hours**

(Slashed with THEA 41540) The course is designed to provide an introduction to the basics of draping and building flat patterning techniques from this knowledge as they apply to theatre. More in-depth content for this graduate level course.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**THEA 51541 DRAPING FOR THE THEATRE II 3 Credit Hours**

(Slashed with THEA 41541) Course is designed to build upon skills developed in Draping for the Theatre I. Emphasis is placed on learning to drape over period undergarments such as corsetry, panniers, bustles, etc.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**THEA 51560 THEATRE FABRICATION TECHNOLOGY 3 Credit Hours**

History of technical production practice, materials theory and application in scenic construction technology.

**Prerequisite:** Graduate standing; and special approval of instructor.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**THEA 51562 ADVANCED PROJECTION DESIGN 3 Credit Hours**

(Slashed with THEA 41562) Studies in projection design, digital media, and related technologies. Advanced software applications will be explored.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**THEA 51621 PRESENTATION MEDIA 3 Credit Hours**

Advanced process techniques in rendering, model building and design presentation for the scenic costume and lighting designer in traditional and new media.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**THEA 51622 DESIGN STUDIO:SCENERY 3 Credit Hours**

Advanced study in scenic design. Explores genres, styles, performance spaces, including practical considerations.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**THEA 51624 HISTORY OF COSTUME AND TEXTILES FOR THEATRE 3 Credit Hours**

(Slashed with THEA 41624) Overview of the history of period costume and textiles in Western civilization from 1700 to 1970, a span of time commonly regarded as "popular time periods" in the practice and cannon of Western drama and the history of costume. Emphasis is placed on how theatre practitioners recreate the silhouettes of these periods in ways that make sense to a contemporary audience while using textiles available today. Students examine the social and cultural influences of clothing, recognition of historic silhouette and parallels in the artwork, literature, politics, economy and craft movements of each era of study.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**THEA 51701 MOVEMENT, FORM AND SPACE I-THE ACTOR'S PHYSICAL INSTRUMENT 3 Credit Hours**

Development of technical skills emphasizing the physical components of expressive action through integration of breath, voice and body conditioning.

**Prerequisite:** Special approval.

**Schedule Type:** Studio

**Contact Hours:** 4 other

**Grade Mode:** Standard Letter

**THEA 51702 MOVEMENT AND DANCE FOR ACTORS 3 Credit Hours**

(Repeatable for a maximum of 6 credit hours) Designed to acquaint actors with theatre dance techniques and choreographic styles by concentrating on vernacular dances used throughout musical theatre. Course combines basic ballet, jazz, and tap terminology.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Studio

**Contact Hours:** 4 other

**Grade Mode:** Standard Letter

**THEA 51703 STAGE COMBAT 3 Credit Hours**

(Repeatable for a maximum of 6 credit hours) (Slashed with THEA 41703) Introductory course focuses on creating the illusion of violence for the stage and screen. Basic instruction is given in unarmed and armed stage combat. Emphasis is on the development of technique; the process of the work; and the performance, with a focus on safety, accuracy and the fundamental techniques recognized by the Society of American Fight Directors (SAFD). Basic techniques are incorporated into short scenes to provide experience performing fights in production.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Laboratory, Lecture

**Contact Hours:** 2 lecture, 2 lab

**Grade Mode:** Standard Letter

**THEA 51734 COSTUME PRODUCTION MANAGEMENT 3 Credit Hours**

(Slashed with THEA 41734) The course is designed to provide an introduction to managerial processes as they apply to costumes, the role of a shop manager, the role of a wardrobe supervisor and the wardrobe crew, the running of a smooth technical rehearsal and production.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**THEA 51736 PRODUCTION AND STAGE MANAGEMENT 3 Credit Hours**

Advanced investigation of the methodology used in stage managing professional theatrical productions and production management processes. Focus on production processes for various theatre, dance, opera and entertainment genres.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**THEA 51802 ENSEMBLE SINGING FOR MUSICAL THEATRE 1 Credit Hour**

(Repeatable 6 times for credit) The study and performance of diverse styles specific to the musical theatre canon for mixed voices.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Studio

**Contact Hours:** 2 other

**Grade Mode:** Standard Letter

**THEA 51803 VOICE AND SPEECH I 3 Credit Hours**

Practical study and application of voice and speech production for the actor into various styles of verse and prose, including heightened language and text.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Laboratory, Lecture, Combined Lecture and Lab

**Contact Hours:** 2 lecture, 2 lab

**Grade Mode:** Standard Letter

**THEA 51808 ACTING STYLES I: SHAKESPEARE 3 Credit Hours**

The application of acting, movement, and voice and speech techniques to sonnets, monologues, soliloquies, and scenes from Shakespeare.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Studio

**Contact Hours:** 4 other

**Grade Mode:** Standard Letter

**THEA 52101 DYE TECHNIQUES AND FABRIC MODIFICATION 3 Credit Hours**

(Slashed with THEA 42101) This course is designed to enable the artisan to identify fiber content and determine appropriate mediums for fabric dyeing. The course explores various techniques such as shabori, stamping, rubbing, and surface lifting in order to create special effects on fabrics. A collection of dye fabric samples and information will be created so student may use as a reference book.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Laboratory, Lecture

**Contact Hours:** 1 lecture, 4 lab

**Grade Mode:** Standard Letter

**THEA 52150 THREE-DIMENSIONAL CHARACTERS: FOAM FABRICATION AND FIGURE FINISHING TECHNIQUES 3 Credit Hours**

(Slashed with THEA 42150) This course provides knowledge and application of the different types of plastics/foams used for 3D character building. This course is designed to enable the artisan to work with a range of materials when building atypical pieces for costumes or props.

**Prerequisite:** Graduate Standing and special approval.

**Schedule Type:** Laboratory, Lecture

**Contact Hours:** 1 lecture, 4 lab

**Grade Mode:** Standard Letter

**THEA 60196 INDIVIDUAL INVESTIGATION: HISTORIC TEXTILES 3 Credit Hours**

(Repeatable for credit) Identification and analysis of textile fabric as the reflection of culture.

**Prerequisite:** Graduate standing.

**Schedule Type:** Individual Investigation

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**THEA 60199 M.F.A. THESIS PROJECT 3 Credit Hours**

(Repeatable for credit) Students must register for course during the semester of their M.F.A. thesis project.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Masters Thesis

**Contact Hours:** 3 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**THEA 60992 PROFESSIONAL THEATRE INTERNSHIP I 3,6 Credit Hours**

(Repeatable once) Intensive advanced training in practical aspects of production. Periodic seminars, laboratory sessions and performance in the Porthouse Theatre Company.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Practical Experience

**Contact Hours:** 3-6 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**THEA 61000 INTRODUCTION TO GRADUATE STUDY IN THEATRE 3 Credit Hours**

Orientation to bibliography and research in the field of theatre with emphasis on application of research to performance.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**THEA 61094 COLLEGE TEACHING IN THEATRE 3 Credit Hours**

(Repeatable for credit) Strategies for teaching, issues on implications of pedagogical practice and responsibilities of academic leadership.

**Prerequisite:** Graduate standing; and special approval of instructor.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**THEA 61095 SPECIAL TOPICS 1-3 Credit Hours**

(Repeatable for credit) Offered irregularly when unusual resources permit a topic different from existing courses. Topic are announced when scheduled.

**Prerequisite:** Graduate standing; and special approval of instructor.

**Schedule Type:** Lecture

**Contact Hours:** 1-3 lecture

**Grade Mode:** Standard Letter

**THEA 61096 INDIVIDUAL INVESTIGATION: THEATRE AND DRAMA 1-4 Credit Hours**

(Repeatable for a maximum of 6 credit hours) Independent study of an area or problem approved by divisional graduate coordinator in consultation with project director.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Individual Investigation

**Contact Hours:** 1-4 other

**Grade Mode:** Standard Letter-IP



**THEA 61098 RESEARCH 1-15 Credit Hours**

(Repeatable for credit) Research or individual investigation for master's-level graduate students. Credits may be applied toward meeting degree requirements with school approval.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Research

**Contact Hours:** 1-15 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**THEA 61201 SOFTWARE APPLICATIONS 3 Credit Hours**

A survey of current software used in theatre production with an emphasis on applications for management, design and technical direction.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**THEA 61303 ACTING III SCENE STUDY: NATURALISM AND ABSURD 3 Credit Hours**

In-depth scene study in the genres of Naturalism and Absurd theatre. Exploration of the works of Chekhov, Strindberg, Beckett and others.

**Prerequisite:** Graduate standing; and special approval of instructor.

**Schedule Type:** Studio

**Contact Hours:** 4 other

**Grade Mode:** Standard Letter

**THEA 61305 ACTING STYLES II: GREEK AND COMEDY OF MANNERS 3 Credit Hours**

Application of acting, movement and speech techniques to these specific genres. Focus on style and physicalization using Greek and English Restoration playwrights as well as Molière, Wilde and others.

**Prerequisite:** Graduate standing; and special approval of instructor.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**THEA 61306 PROFESSIONAL ASPECTS: DESIGN AND TECHNOLOGY 3 Credit Hours**

A study of the practical demands and requirements of a professional career in design and technology, including portfolio development, resumes, unions, job market, financial matters and career prospects.

Emphasis is placed on developing skills and materials for finding employment and the use of marketing communication techniques.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**THEA 61309 MASTER OF FINE ARTS COMPREHENSIVE PROJECT IN ACTING 1-3 Credit Hours**

Intensive work in the development of the practical aspects of production; includes performance or exhibition of work, documentation of that work in a format appropriate for area and project, and an exit interview.

**Prerequisite:** THEA 61000; and graduate standing; and special approval of instructor.

**Schedule Type:** Laboratory

**Contact Hours:** 3-9 lab

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**THEA 61310 MASTER OF FINE ARTS DESIGN AND TECHNOLOGY CULMINATING PROJECT 3 Credit Hours**

An intensive experience in the development of design and/or technical aspects of a theatrical production; the scope of work may include but not necessarily be limited to research, drawings and drafting, renderings and associated digital image, video or audio files. Documentation (appropriate for the area and project) is presented at an exit interview.

**Prerequisite:** THEA 61000; and graduate standing; and special approval of instructor.

**Schedule Type:** Individual Investigation, Masters Thesis, Studio

**Contact Hours:** 3 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**THEA 61420 COLLABORATION IN PRODUCTION STUDIO 1 Credit Hour**

Knowledge acquisition and the development of skills to create resolve and present well-reasoned theatrical design. Students will employ the design and production process, observation of deadlines, and collaboration with other designers and technical directors, as a structure to elevate production.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Seminar

**Contact Hours:** 1 lecture

**Grade Mode:** Standard Letter

**THEA 61525 MILLINERY AND 3-D CHARACTERS 3 Credit Hours**

Advanced studies of techniques of millinery construction and 3D character construction with an emphasis on current practice in the industry.

**Prerequisite:** Graduate standing; and special approval of instructor.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**THEA 61528 DESIGN PROCESS AND COLLABORATION 3 Credit Hours**

Introduction to the design process and collaboration in a theatrical production. Students have the opportunity to analyze best practices, strategies and the strengths and challenges of designers.

**Prerequisite:** THEA 61000; and graduate standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**THEA 61531 PERIOD STYLE FOR THEATRE DESIGNERS 3 Credit Hours**

An exploration of the relationship of period style, historical context and the designer's artistic choices in contemporary interpretations of period plays.

**Prerequisite:** Theatre studies major; and concentration in design/technology-costume design, design/technology-lighting design, design/technology-scene design or design/technology-technical direction; and graduate standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter



**THEA 61623 DIGITAL RENDERING THEATRE DESIGN 3 Credit Hours**

Explores a variety of digital rendering methods for artistic 2D and 3D graphics visualization of theatrical design concepts.

**Prerequisite:** Theatre studies major; and concentration in design/technology-costume design, design/technology-lighting design, design/technology-scene design or design/technology-technical direction; and graduate standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**THEA 61701 MOVEMENT, FORM AND SPACE II-NEUTRAL AND CHARACTER MASK 3 Credit Hours**

Advanced skills and conditioning focusing on the physical and vocal qualities of characterization achieved through performance in masks.

**Prerequisite:** THEA 51701; and graduate standing; and special approval of instructor.

**Schedule Type:** Studio

**Contact Hours:** 4 other

**Grade Mode:** Standard Letter

**THEA 61703 MOVEMENT, FORM AND SPACE III 3 Credit Hours**

Advanced skills and conditioning focusing on the physical and vocal qualities of characterization achieved through period movement. This course allows actors to effectively perform movement and styles from specific historical periods and genres.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Seminar, Studio

**Contact Hours:** 2 lecture, 2 other

**Grade Mode:** Standard Letter

**THEA 61803 VOICE AND SPEECH II 3 Credit Hours**

Ongoing study and application of voice and speech technique into various styles of text, and the analysis and development of accents for performance and presentation.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Laboratory, Lecture, Combined Lecture and Lab

**Contact Hours:** 2 lecture, 2 lab

**Grade Mode:** Standard Letter

**THEA 61804 VOICE AND SPEECH III 3 Credit Hours**

Advanced study and application of voice and speech techniques, focusing on the extremes of vocal demands.

**Prerequisite:** THEA 51803; and graduate standing; and special approval.

**Schedule Type:** Laboratory, Lecture, Combined Lecture and Lab

**Contact Hours:** 2 lecture, 2 lab

**Grade Mode:** Standard Letter

**THEA 61806 SINGING FOR THE ACTOR 1 Credit Hour**

A comprehensive study of performance techniques and repertoire appropriate to the singing actor.

**Prerequisite:** THEA 51801; and graduate standing; and special approval of instructor.

**Schedule Type:** Studio

**Contact Hours:** 1 other

**Grade Mode:** Standard Letter

**THEA 61992 PROFESSIONAL THEATRE INTERNSHIP II 3,6 Credit Hours**

(Repeatable for credit) Intensive advanced training in practical aspects of production. Periodic seminars, laboratory sessions and performance in a professional theatre company.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Practical Experience

**Contact Hours:** 3 lecture

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**THEA 62092 PRACTICUM: DESIGN/TECHNOLOGY 3 Credit Hours**

(Repeatable for credit) Practical experience for the graduate student in theatre design and technology under faculty supervision.

**Prerequisite:** Graduate standing; and special approval of instructor.

**Schedule Type:** Practical Experience

**Contact Hours:** 3 lecture

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**THEA 62192 PRACTICUM: PERFORMANCE 3 Credit Hours**

(Repeatable for credit) (Cross-listed with KBT 62192) Practical experience for the graduate student in theatre performance under faculty supervision.

**Prerequisite:** Graduate standing; and special approval of instructor.

**Schedule Type:** Practical Experience

**Contact Hours:** 3 lecture

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**THEA 62292 PRACTICUM:THEATRE MANAGEMENT 3 Credit Hours**

(Repeatable for a maximum of 12 credit hours) Practical experience for the graduate student in theatre management under faculty/staff supervision.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Practical Experience

**Contact Hours:** 3 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**THEA 62392 PRACTICUM: PERORMANCE PEDAGOGY 1 Credit Hour**

(Repeatable for credit) Advanced practical experience in theatre performance pedagogy under faculty supervision.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Practical Experience

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**THEA 62892 THEATRE PRACTICUM 1 Credit Hour**

(Repeatable twice for credit) Practical experience for the graduate student in cocurricular theatre activities, under faculty supervision.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Practical Experience

**Contact Hours:** 1 lecture

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**THEA 62992 THEATRE PRODUCTION INTERNSHIP 1-6 Credit Hours**

(Repeatable for a maximum of 12 credit hours)(Slashed with THEA 72992) Intensive advanced training in practical aspects of production. Periodic seminars, laboratory sessions and performance in a theatre company or touring with Kent Theatre Ensemble.

**Prerequisite:** Graduate standing; and special approval of advisor.

**Schedule Type:** Practical Experience

**Contact Hours:** 1-6 lecture

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**THEA 63001 SCENIC DESIGN I: FOUNDATIONS IN SINGLE SET SCENIC DESIGN 2 Credit Hours**

Introduction to the methodology and practice of professional scene design. Application of knowledge made through a series of design projects. Script Analysis, perspective rendering and model-making techniques will be emphasized for single set productions.

**Prerequisite:** Graduate standing in the School of Theatre and Dance; and special approval.

**Schedule Type:** Seminar

**Contact Hours:** 2 other

**Grade Mode:** Standard Letter

**THEA 63002 SCENIC DESIGN II: ADVANCED SINGLE SET SCENIC DESIGN 2 Credit Hours**

Inquiry to the methodology and practice of professional scene design. Application of knowledge will be through a series of complex design projects. Script analysis, drafting, perspective rendering and more advanced model-making techniques will be emphasized.

**Prerequisite:** Graduate standing in the School of Theatre and Dance; and special approval.

**Schedule Type:** Seminar

**Contact Hours:** 2 other

**Grade Mode:** Standard Letter

**THEA 63003 SCENIC DESIGN III: DESIGNING BEYOND DRAMA 2 Credit Hours**

An advanced approach to professional scene design as it applies to opera, musical theatre, and the entertainment industry. Advanced design communication techniques will be applied through a series of design projects. Textual analysis, conceptual unit/multi-set productions, storyboarding, and advanced visual communication/presentation techniques will be emphasized.

**Prerequisite:** Graduate standing in the School of Theatre and Dance; and special permission.

**Schedule Type:** Seminar

**Contact Hours:** 2 other

**Grade Mode:** Standard Letter

**THEA 63004 SCENIC DESIGN IV: ADVANCED MULTI-SETTING DESIGN 2 Credit Hours**

An advanced approach to professional scene design as it applies to opera, musical theatre, and the entertainment industry in non-traditional spaces. Advanced design communication techniques will be applied through a series of design projects. Analysis, conceptual unit/multi-set productions, storyboarding, and advanced visual communication/presentation techniques will be emphasized.

**Prerequisite:** Graduate standing in the School of Theatre and Dance; and special permission.

**Schedule Type:** Seminar

**Contact Hours:** 2 other

**Grade Mode:** Standard Letter

**THEA 63005 SCENIC DESIGN V: ENTERTAINMENT AND PRODUCTION DESIGN 2 Credit Hours**

An advanced approach to professional scene design as it applies to industrials, showrooms and the entertainment industry. Knowledge of techniques will be applied through a series of design projects, analysis, conceptual approaches, storyboarding, and advanced visual communication/presentation techniques. This course will focus on refinement of the theoretical and practical skills of the professional scenic designer.

**Prerequisite:** Graduate standing in the School of Theatre and Dance; and special approval.

**Schedule Type:** Seminar

**Contact Hours:** 2 other

**Grade Mode:** Standard Letter

**THEA 63006 SCENIC DESIGN VI: NON-TRADITIONAL AND SITE-SPECIFIC PERFORMANCES 2 Credit Hours**

An advanced approach to professional scene design as it applies to industrials and the entertainment industry. Site specific design communication techniques will be applied through a series of design projects. Analysis, conceptual approaches, storyboarding, and advanced visual communication/presentation techniques will be emphasized.

**Prerequisite:** Graduate standing in the School of Theatre and Dance; and special approval.

**Schedule Type:** Seminar

**Contact Hours:** 2 other

**Grade Mode:** Standard Letter

**THEA 63092 PRODUCTION COLLABORATION: SCENIC DESIGN 1-2 Credit Hours**

(Repeatable for credit) Practical preparation, design and production work as applied to Scenic design within the School of Theatre and Dance. This course will serve as both a time to cultivate management of resources and synthesize information in developing solutions to production-related issues in scene design. Repeatable to a maximum of 8 credits.

**Prerequisite:** Graduate standing in the School of Theatre and Dance; and special approval.

**Schedule Type:** Practical Experience

**Contact Hours:** 3-6 other

**Grade Mode:** Standard Letter

**THEA 63192 MENTORSHIP IN PERFORMANCE 3 Credit Hours**

(Repeatable for a total of 6 credit hours) Development of advanced skills and abilities to mentor student performers in aspects of the profession, including professional behavior, understanding of the business and the actor's creative process. Major work done while participating in rehearsal and performance of main stage productions or assisting in THEA 41305/ THEA 51305. Students may take the course alongside THEA 62192.

**Prerequisite:** Graduate standing; and special approval of instructor.

**Schedule Type:** Practical Experience

**Contact Hours:** 6 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**THEA 64001 THEATRE TECHNICAL DIRECTION I: FOUNDATIONS I 2 Credit Hours**

Investigation of publications in the field of technical theatre and their relevance to examining the technical manager as planner, artist, creative thinker positive leader and colleague.

**Prerequisite:** Graduate standing in the School of Theatre and Dance; and special approval.

**Schedule Type:** Seminar

**Contact Hours:** 2 other

**Grade Mode:** Standard Letter

**THEA 64002 THEATRE TECHNICAL DIRECTION II: FOUNDATIONS II  
2 Credit Hours**

Continued Investigation of publications in the field of technical theatre and their relevance to examining the technical manager as planner, artist, creative thinker positive leader and colleague.

**Prerequisite:** Graduate standing in the School of Theatre and Dance; and special approval.

**Schedule Type:** Seminar

**Contact Hours:** 2 other

**Grade Mode:** Standard Letter

**THEA 64003 THEATRE TECHNICAL DIRECTION III: TOURING  
PRODUCTIONS 2 Credit Hours**

Course covers the logistics of transporting a theatrical production, the concepts and needs of touring productions, and different construction techniques needed for disassembly and quick reassembly.

**Prerequisite:** Graduate standing in the School of Theatre and Dance; and special approval.

**Schedule Type:** Seminar

**Contact Hours:** 2 other

**Grade Mode:** Standard Letter

**THEA 64004 THEATRE TECHNICAL DIRECTION IV: EDUCATIONAL  
THEATRE 2 Credit Hours**

Examination of the roles of the technical director in academia, including the evolution of and current state of technical theatre education.

Course will explore the work and presentations of the USITT Education Commission.

**Prerequisite:** Graduate standing in the School of Theatre and Dance; and special approval.

**Schedule Type:** Seminar

**Contact Hours:** 2 other

**Grade Mode:** Standard Letter

**THEA 64005 THEATRE TECHNICAL DIRECTION V: MECHANICS AND  
AUTOMATION 2 Credit Hours**

Examination of the techniques and applications of automated scenery and stage mechanics.

**Prerequisite:** Graduate Standing in the School of Theatre & Dance and special permission.

**Schedule Type:** Seminar

**Contact Hours:** 2 other

**Grade Mode:** Standard Letter

**THEA 64006 THEATRE TECHNICAL DIRECTION VI: HEALTH AND  
SAFETY 2 Credit Hours**

Focus on the health & safety concerns of live performance, including the organizations OSHA, NFPS, ANSI, Red Cross, their protocols and their relation to theatre.

**Prerequisite:** Graduate standing in the School of Theatre and Dance; and special approval.

**Schedule Type:** Seminar

**Contact Hours:** 2 other

**Grade Mode:** Standard Letter

**THEA 64092 PRODUCTION COLLABORATION: TECHNICAL DIRECTION  
1-2 Credit Hours**

(Repeatable for credit) Practical preparation, design and production work as applied to technical direction within the School of Theatre and Dance. This course will serve as both a time to cultivate management of resources and synthesize information in developing solutions to production-related issues in technical direction. Repeatable to a maximum of 8 credits.

**Prerequisite:** Graduate standing in the School of Theatre and Dance.

**Schedule Type:** Practical Experience

**Contact Hours:** 3-6 other

**Grade Mode:** Standard Letter

**THEA 64192 MENTORSHIP AT PORTHOUSE 3 Credit Hours**

(Repeatable for a total of 6 credit hours) Development of advanced skills and abilities to mentor student performers in aspects of the profession, including professional behavior, understanding of the business and the actor's creative process. Major work done while participating in rehearsal of Porthouse Theatre productions. Students may take the course alongside THEA 62192.

**Prerequisite:** Graduate standing; and special approval of instructor.

**Schedule Type:** Practical Experience

**Contact Hours:** 6 other

**Grade Mode:** Satisfactory/Unsatisfactory-IP

**THEA 65000 HISTORY, HISTORICISM, THEORY AND PRACTICE IN  
THEATRE AND DRAMA 3 Credit Hours**

Course covers the breadth of theatre history and historicism and application of theatre theory to practice by focusing on the six major stylistic periods: Greek and Roman, Medieval, Renaissance, Romanticism, Realism and Non Realism (symbolism, expressionism, surrealism, absurdism) and contemporary period (postmodernism, feminism and interculturalism, multiculturalism). Using lecture, scholarly articles, video viewing and practical writing projects, students learn about and practice each style, as well as apply the style to students' respective areas of graduate study (i.e. actor, director, designer).

**Prerequisite:** THEA 61000; and graduate standing; and special approval.

**Schedule Type:** Research, Seminar

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**THEA 65001 LIGHTING DESIGN I: DRAMA 2 Credit Hours**

Advanced exploration and development of artistic processes and method for lighting design in drama.

**Prerequisite:** Graduate standing in the School of Theatre and Dance; and special approval.

**Schedule Type:** Seminar

**Contact Hours:** 2 other

**Grade Mode:** Standard Letter

**THEA 65002 LIGHTING DESIGN II: MUSICAL THEATRE 2 Credit  
Hours**

Advanced exploration and development of artistic processes and methods for lighting design in musical theatre.

**Prerequisite:** Graduate standing in the School of Theatre and Dance; and special approval.

**Schedule Type:** Seminar

**Contact Hours:** 2 other

**Grade Mode:** Standard Letter

**THEA 65003 LIGHTING DESIGN III: DANCE AND OPERA 2 Credit Hours**

Advanced exploration and development of artistic processes and methods for lighting design in classical and contemporary dance and opera.

**Prerequisite:** Graduate standing in the School of Theatre and Dance; and special approval.

**Schedule Type:** Seminar

**Contact Hours:** 2 other

**Grade Mode:** Standard Letter

**THEA 65004 LIGHTING DESIGN IV: NON-TRADITIONAL PRODUCTIONS 2 Credit Hours**

Exploration and development of artistic processes and methods in lighting design for non-traditional works, including multidisciplinary and devised productions.

**Prerequisite:** Graduate standing in the School of Theatre and Dance; and special approval.

**Schedule Type:** Seminar

**Contact Hours:** 2 other

**Grade Mode:** Standard Letter

**THEA 65005 LIGHTING DESIGN V: ARCHITECTURAL AND INTERIOR LIGHTING 2 Credit Hours**

Exploration and development of artistic processes and methods in lighting design for architectural and commercial interiors.

**Prerequisite:** Graduate standing in the School of Theatre and Dance; and special approval.

**Schedule Type:** Seminar

**Contact Hours:** 2 other

**Grade Mode:** Standard Letter

**THEA 65006 LIGHTING DESIGN VI: NEW TECHNOLOGY 2 Credit Hours**

Exploration of innovative technology and technological tools and their application to lighting design. The course includes exploration of non-conventional, automated, projection and LED technologies.

**Prerequisite:** Graduate standing in the School of Theatre and Dance; and special approval.

**Schedule Type:** Seminar

**Contact Hours:** 2 other

**Grade Mode:** Standard Letter

**THEA 65092 PRODUCTION COLLABORATION: LIGHTING DESIGN 1-2 Credit Hours**

(Repeatable for credit) Practical preparation, design and production work as applied to lighting design within the School of Theatre and Dance. This course will serve as both a time to cultivate management of resources and synthesize information in developing solutions to production-related issues in lighting. Repeatable to a maximum of 8 credits.

**Prerequisite:** Graduate standing in the School of Theatre and Dance; and special approval.

**Schedule Type:** Practical Experience

**Contact Hours:** 3-6 other

**Grade Mode:** Standard Letter

**THEA 65192 TEACHING PRACTICUM 3 Credit Hours**

(Repeatable for a total of 6 credit hours) Application of strategies for teaching at the college level. Development of advanced skills in course preparation, classroom management and pedagogical practice. Major work done teaching or assisting with undergraduate classes.

**Prerequisite:** THEA 61094; and graduate standing.

**Schedule Type:** Practical Experience

**Contact Hours:** 6 other

**Grade Mode:** Satisfactory/Unsatisfactory

**THEA 66001 COSTUME DESIGN I: SCRIPT ANALYSIS 2 Credit Hours**

Exploration and development of different methods and artistic processes for costume design. By focusing on textual analysis, the costume student will be able to explore a wide variety of performance types.

**Prerequisite:** Graduate standing in the School of Theatre and Dance; and special approval.

**Schedule Type:** Seminar

**Contact Hours:** 2 other

**Grade Mode:** Standard Letter

**THEA 66002 COSTUME DESIGN II: PERFORMANCE GENRES 2 Credit Hours**

Exploration and development of different methods and artistic processes for costume design in diverse genres, including dance, opera, and circus.

**Prerequisite:** Graduate standing in the School of Theatre and Dance; and special approval.

**Schedule Type:** Seminar

**Contact Hours:** 2 other

**Grade Mode:** Standard Letter

**THEA 66003 COSTUME DESIGN III: THEATRICAL STYLES 2 Credit Hours**

Advanced exploration of costume designs which incorporate both historical and thematic stylized conventions.

**Prerequisite:** Graduate standing in the School of Theatre and Dance; and special approval.

**Schedule Type:** Seminar

**Contact Hours:** 2 other

**Grade Mode:** Standard Letter

**THEA 66004 COSTUME DESIGN IV: ADVANCED RENDERING 2 Credit Hours**

Development of advanced figure drawing study and rendering techniques in order to strengthen the student's skill and facility in producing costume renderings.

**Prerequisite:** Graduate standing in the School of Theatre and Dance; and special approval.

**Schedule Type:** Seminar

**Contact Hours:** 2 other

**Grade Mode:** Standard Letter

**THEA 66005 COSTUME DESIGN V: RESEARCH METHODS 2 Credit Hours**

Intensive focus on the variety of research methodologies and their application to both contemporary and period costume designs.

**Prerequisite:** Graduate standing in the School of Theatre and Dance; and special approval.

**Schedule Type:** Seminar

**Contact Hours:** 2 other

**Grade Mode:** Standard Letter

**THEA 66006 COSTUME DESIGN VI: TEXTILES 2 Credit Hours**

An understanding of the appropriate application of many common and specialty fabrics used in costume design.

**Prerequisite:** Graduate standing in the School of Theatre and Dance; and special approval.

**Schedule Type:** Seminar

**Contact Hours:** 2 other

**Grade Mode:** Standard Letter

**THEA 66092 PRODUCTION COLLABORATION: COSTUME DESIGN/ TECHNOLOGY 1-2 Credit Hours**

(Repeatable for credit) Practical preparation, design and production work as applied to Costuming within the School of Theatre and Dance. This course will serve as both a time to cultivate management of resources and synthesize information in developing solutions to production-related issues in costumes. Repeatable to a maximum of 8 credits.

**Prerequisite:** Graduate standing in the School of Theatre and Dance; and special approval.

**Schedule Type:** Practical Experience

**Contact Hours:** 3-6 other

**Grade Mode:** Standard Letter

**THEA 72992 THEATRE PRODUCTION INTERNSHIP 1-6 Credit Hours**

(Repeatable for a total of 12 credit hours)(Slashed with THEA 62992) Intensive advanced training in practical aspects of production. Periodic seminars, laboratory sessions and performance in a theatre company or touring with Kent Theatre Ensemble.

**Prerequisite:** Doctoral standing and special approval of advisor.

**Schedule Type:** Lecture, Practical Experience

**Contact Hours:** 1-6 lecture

**Grade Mode:** Satisfactory/Unsatisfactory-IP

## Acting for the Returning Professional - M.F.A.

**College of the Arts**

School of Theatre and Dance - Theatre Division

B141 Center for the Performing Arts

Kent Campus

330-672-2082

theatre@kent.edu

www.kent.edu/theatredance

*Program is pending approval from the Ohio Department of Higher Education.*

### Description

The Master of Fine Arts degree in Acting for the Returning Professional provides students with substantial performance experience an intensive preparation for diverse careers in the field, including teaching at the university level. The goal of the terminal degree program is to mentor professional performers who wish to focus on refining and articulating their acting process, while gaining sound pedagogical practice in performance-related subjects. These subjects may include acting, voice and speech, movement and musical theatre. The two-year program provides a set of core classes centered around a variety of techniques and theories, within a flexible pedagogical laboratory model that allows students to explore areas of interest while incorporating advanced teaching and mentoring through performance in the form of teaching and practicum.

**Fully Offered At:**

- Kent Campus

### Accreditation

National Association of Schools of Theatre

### Admission Requirements

- Bachelor's degree from an accredited college or university for unconditional admission

- Minimum 3.000 undergraduate GPA on a 4.000 point scale for unconditional admission
- Official transcript(s)
- Résumé
- Goal statement
- Three letters of recommendation
- Evidence of professional experience<sup>1</sup>
- Audition
- Interview
- English language proficiency - all international students must provide proof of English language proficiency (unless they meet specific exceptions) by earning one of the following:
  - Minimum 525 TOEFL PBT score (paper-based version)
  - Minimum 71 TOEFL IBT score (Internet-based version)
  - Minimum 74 MELAB score
  - Minimum 6.0 IELTS score
  - Minimum 50 PTE score
  - Minimum 100 Duolingo test score

For more information about graduate admissions, please visit the Graduate Studies website. For more information on international admission, visit the Office of Global Education website.

- <sup>1</sup> Required evidence in support of admission may include, but not limited to, Broadway, regional, and/or international performance credits; film and television credits; awards of national recognition; professional union affiliation; publication in the field of expertise; significant record of mentoring; and certifications and/or designations in areas such as acting, voice and speech or stage combat. Program faculty will evaluate the submitted documentation of professional experience and determine eligibility for the M.F.A. degree.

### Program Learning Outcomes

Graduates of this program will be able to:

1. Employ a broad range of acting knowledge and skills in the creation and presentation of roles.
2. Perform in plays of various types and from various periods.
3. Acquire advanced capabilities in acting, voice and speech, movement, theatre history and pedagogy.
4. Apply sound pedagogical practices to aspects of theatre or performance studies.
5. Demonstrate professionalism in an acting setting.

### Program Requirements

#### Major Requirements

Code	Title	Credit Hours
<b>Major Requirements</b>		
THEA 51010	THEATRE AND SOCIAL CHANGE	3
or THEA 51113	THEATRE IN A MULTICULTURAL AMERICA	
or THEA 51115	LGBTQ THEATRE	
or THEA 51191	VARIABLE CONTENT SEMINAR: THEATRE HISTORY, LITERATURE AND THEORY	
THEA 51303	ACTING I FOUNDATIONS/STANISLAVSKI AND MICHAEL CHEKHOV	3



THEA 51304	ACTING II: SCENE STUDY-MODERN AMERICAN REALISM	3
THEA 51701	MOVEMENT, FORM AND SPACE I-THE ACTOR'S PHYSICAL INSTRUMENT	3
THEA 51803	VOICE AND SPEECH I	3
THEA 51808	ACTING STYLES I-SHAKESPEARE	3
THEA 60992 or THEA 61992	PROFESSIONAL THEATRE INTERNSHIP I PROFESSIONAL THEATRE INTERNSHIP II	6
THEA 61000	INTRODUCTION TO GRADUATE STUDY IN THEATRE	3
THEA 61094	COLLEGE TEACHING IN THEATRE <sup>1</sup>	0-3
THEA 61305	ACTING STYLES II: GREEK AND COMEDY OF MANNERS	3
THEA 61701	MOVEMENT, FORM AND SPACE II-NEUTRAL AND CHARACTER MASK	3
THEA 61803	VOICE AND SPEECH II	3
THEA 62192	PRACTICUM:PERFORMANCE (must be taken two times)	6
THEA 62392	PRACTICUM: PERORMANCE PEDAGOGY (must be taken three times)	3
THEA 65000	HISTORY, HISTORICISM, THEORY AND PRACTICE IN THEATRE AND DRAMA	3
Major Electives, choose from the following:		9
THEA 51095	SPECIAL TOPICS	
THEA 51191	VARIABLE CONTENT SEMINAR: THEATRE HISTORY, LITERATURE AND THEORY	
THEA 51301	ACTING FOR THE CAMERA I	
THEA 51302	ACTING FOR THE CAMERA II	
THEA 51305	PROFESSIONAL ASPECTS:PERFORMANCE	
THEA 51401	ADVANCED DIRECTING	
THEA 51703	STAGE COMBAT	
THEA 61095	SPECIAL TOPICS	
THEA 61096	INDIVIDUAL INVESTIGATION: THEATRE AND DRAMA	
THEA 61098	RESEARCH	
THEA 61303	ACTING III SCENE STUDY: NATURALISM AND ABSURD	
THEA 51305	PROFESSIONAL ASPECTS:PERFORMANCE	
THEA 61531	PERIOD STYLE FOR THEATRE DESIGNERS	
THEA 61703	MOVEMENT, FORM AND SPACE III	
THEA 61804	VOICE AND SPEECH III	
THEA 61806	SINGING FOR THE ACTOR	
THEA 65192	TEACHING PRACTICUM	
<i>Culminating requirement</i>		
THEA 60199	M.F.A. THESIS PROJECT	3
Minimum Total Credit Hours:		60

<sup>1</sup> THEA 61094 is required for teaching assistants only; minimum total credit hours for degree completion will be 63.

## Professional Experience Evaluation

Students have the potential to earn a maximum 16 credit hours for their professional experience toward the degree. Program faculty will determine the acceptability of professional experience submitted and calculate the number of credit hours that can be earned. While applicant's creative activities may encompass more than 16 credit hours, a maximum of 16 credit hours may be applied to the plan of study.

The professional experience will be evaluated and awarded through THEA 61098 as the candidate matriculates through the degree program.

Documentation to be submitted in support of returning professional qualification includes the following:

1. Copy of the contract(s) from a production company or theatre company
2. Theatrical playbills or programs which contain the applicant's name and role
3. Evidence of reviews and promotional materials
4. Awards, nominations and or certification documents
5. Written explanation of the professional experience presented, and its influence on current professional and educational endeavors

The documentation will be evaluated and approved by the acting area faculty, and the candidate will be notified of returning professional credit.

## Roadmap

This roadmap is a recommended semester-by-semester plan of study for this major. However, courses designated as critical (!) must be completed in the semester listed to ensure a timely graduation.

Semester One		Credits
THEA 51303	ACTING I FOUNDATIONS/STANISLAVSKI AND MICHAEL CHEKHOV	3
THEA 51701	MOVEMENT, FORM AND SPACE I-THE ACTOR'S PHYSICAL INSTRUMENT	3
THEA 51803	VOICE AND SPEECH I	3
THEA 61094	COLLEGE TEACHING IN THEATRE	0-3
THEA 62392	PRACTICUM: PERORMANCE PEDAGOGY	1
Credit Hours		10
Semester Two		Credits
THEA 51010	THEATRE AND SOCIAL CHANGE	3
or	or THEATRE IN A MULTICULTURAL AMERICA	
THEA 51113	or LGBTQ THEATRE	
or	or VARIABLE CONTENT SEMINAR: THEATRE HISTORY, LITERATURE AND THEORY	
THEA 51115		
or		
THEA 51191		
THEA 51304	ACTING II: SCENE STUDY-MODERN AMERICAN REALISM	3
THEA 61000	INTRODUCTION TO GRADUATE STUDY IN THEATRE	3
THEA 61803	VOICE AND SPEECH II	3
THEA 62192	PRACTICUM:PERFORMANCE	3
Credit Hours		15
First Summer Term		Credits
THEA 60992	PROFESSIONAL THEATRE INTERNSHIP I	6
or	or PROFESSIONAL THEATRE INTERNSHIP II	
THEA 61992		
Credit Hours		6
Semester Three		Credits
THEA 51808	ACTING STYLES I-SHAKESPEARE	3
THEA 61701	MOVEMENT, FORM AND SPACE II-NEUTRAL AND CHARACTER MASK	3
THEA 62392	PRACTICUM: PERORMANCE PEDAGOGY	1
THEA 65000	HISTORY, HISTORICISM, THEORY AND PRACTICE IN THEATRE AND DRAMA	3

Major Elective		3
Credit Hours		13
<b>Semester Four</b>		
THEA 60199	M.F.A. THESIS PROJECT	3
THEA 61305	ACTING STYLES II: GREEK AND COMEDY OF MANNERS	3
THEA 62392	PRACTICUM: PERFORMANCE PEDAGOGY	1
THEA 62192	PRACTICUM: PERFORMANCE	3
Major Electives		6
Credit Hours		16
Minimum Total Credit Hours:		60

## Costume Design and Technology - Minor

### College of the Arts

School of Theatre and Dance - Theatre Division  
 B141 Center for the Performing Arts  
 Kent Campus  
 330-672-2082  
 theatre@kent.edu  
 www.kent.edu/theatredance

### Description

The Costume Design and Technology minor provides an understanding of the process and practice of costume design and construction.

### Fully Offered At:

- Kent Campus

Admission to a minor is open to students declared in a bachelor's degree, the A.A.B. or A.A.S. degree or the A.T.S. degree (not Individualized Program major). Students declared only in the A.A. or A.S. degree or the A.T.S. degree in Individualized Program may not declare a minor. Students may not pursue a minor and a major in the same discipline.

### Minor Requirements

Code	Title	Credit Hours
<b>Minor Requirements</b>		
THEA 11000	THE ART OF THE THEATRE (DIVG) (KFA)	2-3
or THEA 11100	MAKING THEATRE: CULTURE AND PRACTICE	
THEA 11732	FUNDAMENTALS OF PRODUCTION II: COSTUMES, LIGHTING AND PROJECTIONS	2
THEA 11733	FUNDAMENTALS OF PRODUCTION LABORATORY III: COSTUMES	1
THEA 21016	MAKEUP FOR STAGE AND SCREEN	3
or THEA 21523	COSTUME TECHNOLOGY	
THEA 21524	COSTUME DESIGN	3
or THEA 21526	BASIC COSTUME CONSTRUCTION	
THEA 42092	PRACTICUM II: DESIGN AND TECHNOLOGY (ELR) (taken in costuming)	3
Minor Electives, choose from the following:		6
THEA 31526	FLAT PATTERNING FOR THEATRE	
THEA 41524	DESIGN STUDIO: COSTUME	
THEA 41540	DRAPING FOR THE THEATRE I	

THEA 41529	ADVANCED WIG AND MAKEUP TECHNIQUES-STAGE AND SCREEN	
THEA 41734	COSTUME PRODUCTION MANAGEMENT	
THEA 41992	THEATRE PRODUCTION INTERNSHIP (ELR) (taken in costuming)	
THEA 42092	PRACTICUM II: DESIGN AND TECHNOLOGY (ELR) (taken in costuming)	
Minimum Total Credit Hours:		20

### Graduation Requirement

Minimum Minor GPA	Minimum Overall GPA
2.000	2.000

- Minimum 6 credit hours in the minor must be upper-division coursework (30000 and 40000 level).
- Minimum 6 credit hours in the minor must be outside of the course requirements for any major or other minor the student is pursuing.
- Minimum 50 percent of the total credit hours for the minor must be taken at Kent State (in residence).

## Dance - B.F.A.

### College of the Arts

School of Theatre and Dance - Dance Division  
 D101 Center for the Performing Arts  
 Kent Campus  
 330-672-2069  
 dance@kent.edu  
 www.kent.edu/theatredance

### Description

The Bachelor of Fine Arts in Dance develops technically sound, intellectually diverse and creatively expressive dance artists who can contribute significantly to the art form and society. The curriculum provides students with opportunities for strong and varied technical preparation in modern dance forms, classical ballet, jazz styles, improvisation and composition as well as opportunities for performance and the presentation of original choreography. The program also provides students with experiences in other art forms and disciplines, with required courses in theatre and anatomy.

### Fully Offered At:

- Kent Campus

### Accreditation

National Association of Schools of Dance (NASD).

### Admission Requirements

The university affirmatively strives to provide educational opportunities and access to students with varied backgrounds, those with special talents and adult students who graduated from high school three or more years ago.

Admission to this major is selective. Students must audition before being admitted to the Dance major. Inquiries can be directed to the coordinator

of the Dance Division, D-101C Center for the Performing Arts, Kent State University, Kent, OH 44242-0001 (or call 330-672-2069).

For more information on admissions, including additional requirements for some academic programs, visit the admissions website for new freshmen and the admissions website for transfer, transitioning and former students.

### English Language Proficiency Requirements for International Students:

All international students must provide proof of English language proficiency (unless they meet specific exceptions) by earning a minimum 525 TOEFL score (71 on the Internet-based version), minimum 75 MELAB score, minimum 6.0 IELTS score or minimum 48 PTE Academic score, or by completing the ELS level 112 Intensive Program. For more information on international admission, visit the Office of Global Education's admission website.

## Program Learning Outcomes

Graduates from this program will be able to

1. Perform a wide range of dance works
2. Demonstrate an understanding of a diverse range of modern dance styles, including classical modern dance techniques, release techniques and eclectic styles
3. Demonstrate an understanding of dance theory and aesthetics

## University Requirements

All students in a bachelor's degree program at Kent State University must complete the following university requirements for graduation.

**NOTE:** University requirements may be fulfilled in this program by specific course requirements. Please see Program Requirements for details.

Destination Kent State: First Year Experience	1
Course is not required for students with 25 transfer credits, excluding College Credit Plus, or age 21+ at time of admission.	
Diversity Domestic/Global (DIVD/DIVG)	2 courses
Students must successfully complete one domestic and one global course, of which one must be from the Kent Core.	
Experiential Learning Requirement (ELR)	varies
Students must successfully complete one course or approved experience.	
Kent Core (see table below)	36-37
Writing-Intensive Course (WIC)	1 course
Students must earn a minimum C grade in the course.	
Upper-Division Requirement	39 (or 42)
Students must successfully complete 39 upper-division (numbered 30000 to 49999) credit hours to graduate. Students in a B.A. and/or B.S. degree in the College of Arts and Sciences must complete 42 upper-division credit hours.	
Total Credit Hour Requirement	120
Some bachelor's degrees require students to complete more than 120 credit hours.	

## Kent Core Requirements

Kent Core Composition (KCOMP)	6
Kent Core Mathematics and Critical Reasoning (KMCR)	3

Kent Core Humanities and Fine Arts (KHUM/KFA) (min one course each)	9
Kent Core Social Sciences (KSS) (must be from two disciplines)	6
Kent Core Basic Sciences (KBS/KLAB) (must include one laboratory)	6-7
Kent Core Additional (KADL)	6
<b>Total Credit Hours:</b>	<b>36-37</b>

## Program Requirements

### Major Requirements

Code	Title	Credit Hours
<b>Major Requirements (courses count in major GPA)</b>		
ATTR 25057	HUMAN ANATOMY AND PHYSIOLOGY I (KBS) (KLAB)	4
DAN 17053	PRINCIPLES OF DANCE MECHANICS I	2
DAN 27070	JAZZ STYLES I	2
DAN 27074	DANCE COMPOSITION I	3
DAN 27076	DANCE AS AN ART FORM (DIVG) (KFA)	3
DAN 27170	JAZZ STYLES II	2
DAN 37035	DANCE COMPOSITION II	2
DAN 37053	PRINCIPLES OF DANCE MECHANICS II	2
DAN 37070	DANCE COMPOSITION III	2
DAN 37072	DANCE AND TECHNOLOGY	2
DAN 37192	DANCE PRACTICUM (ELR)	1
DAN 37310	MUSIC FOR DANCERS	3
DAN 47060	PROFESSIONAL ASPECTS IN DANCE	2
DAN 47063	DANCE HISTORY I	3
DAN 47070	JAZZ STYLES III	2
DAN 47163	DANCE HISTORY II (WIC) <sup>1</sup>	3
DAN 47170	JAZZ STYLES IV	2
DAN 47174	SENIOR CHOREOGRAPHY PROJECT (ELR)	1
THEA 11732	FUNDAMENTALS OF PRODUCTION II: COSTUMES, LIGHTING AND PROJECTIONS	2
THEA 11733	FUNDAMENTALS OF PRODUCTION LABORATORY III: COSTUMES	1
or THEA 11734	FUNDAMENTALS OF PRODUCTION LABORATORY IV: LIGHTING, SOUND AND PROJECTIONS	
Dance (DAN) or Theatre (THEA) Elective (minimum 4 credits must be upper-division)		6
Modern Dance Techniques, choose from the following: <sup>2</sup>		24
One course required each semester that the student is enrolled		
DAN 17051	MODERN DANCE TECHNIQUE I-A	
DAN 17151	MODERN DANCE TECHNIQUE I-B	
DAN 27071	MODERN DANCE TECHNIQUE II-A	
DAN 27171	MODERN DANCE TECHNIQUE II-B	
DAN 37068	MODERN DANCE TECHNIQUE III-A	
DAN 37168	MODERN DANCE TECHNIQUE III-B	
Ballet Dance Techniques, choose from the following: <sup>2</sup>		16
One course required each semester that the student is enrolled		
DAN 17052	BALLET I-A	
DAN 17152	BALLET I-B	
DAN 27072	BALLET II-A	
DAN 27172	BALLET II-B	
DAN 37067	BALLET III-A	
DAN 37167	BALLET III-B	
DAN 47055	BALLET IV-A	

DAN 47155	BALLET IV-B	
<b>Additional Requirements (courses do not count in major GPA)</b>		
UC 10097	DESTINATION KENT STATE: FIRST YEAR EXPERIENCE	1
Kent Core Composition		6
Kent Core Mathematics and Critical Reasoning		3-5
Kent Core Humanities and Fine Arts (minimum one course from each)		6
Kent Core Social Sciences (must be from two disciplines)		6
Kent Core Basic Sciences		3
Kent Core Additional		6
Minimum Total Credit Hours:		121

<sup>1</sup> A minimum C grade must be earned to fulfill the writing-intensive requirement.

<sup>2</sup> Entrance to the dance major within the B.F.A. is by audition. Successful completion of DAN 37167 and DAN 37168 is required for graduation as a BFA dance major. Promotion to the next level of Technique is at the discretion of the dance faculty. Students must achieve a minimum B grade in the technique portion of the course in order to be eligible for promotion. Students must be enrolled in daily dance technique classes each semester until graduation. Students majoring in Dance may take these courses twice for credit towards their program requirements.

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## Graduation Requirements

Minimum Major GPA	Minimum Overall GPA
3.000	2.000

- Successful completion of the III-B level in modern dance and ballet is required for graduation as a dance major. Promotion to the next level is at the discretion of the dance faculty. Students must be enrolled in daily dance technique classes each semester until graduation.

## Roadmap

This roadmap is a recommended semester-by-semester plan of study for this major. However, courses designated as critical (!) must be completed in the semester listed to ensure a timely graduation.

Semester One		Credits
DAN 27076	DANCE AS AN ART FORM (DIVG) (KFA)	3
UC 10097	DESTINATION KENT STATE: FIRST YEAR EXPERIENCE	1
!	Modern Dance Technique	3
!	Ballet Technique	2
	Kent Core Requirement	3
	Kent Core Requirement	3
Credit Hours		15
Semester Two		
!	DAN 17053 PRINCIPLES OF DANCE MECHANICS I	2
THEA 11732 & THEA 11733	FUNDAMENTALS OF PRODUCTION II: COSTUMES, LIGHTING AND PROJECTIONS or FUNDAMENTALS OF PRODUCTION LABORATORY III: COSTUMES or FUNDAMENTALS OF PRODUCTION LABORATORY IV: LIGHTING, SOUND AND PROJECTIONS	3
!	Ballet Technique	2
!	Modern Dance Technique	3
	Kent Core Requirement	3
	Kent Core Requirement	3
Credit Hours		16
Semester Three		
ATTR 25057	HUMAN ANATOMY AND PHYSIOLOGY I (KBS) (KLAB)	4
!	DAN 27074 DANCE COMPOSITION I	3
!	DAN 27070 JAZZ STYLES I	2
!	Ballet Technique	2
!	Modern Dance Technique	3
	Kent Core Requirement	3
Credit Hours		17
Semester Four		
!	DAN 27170 JAZZ STYLES II	2
!	DAN 37035 DANCE COMPOSITION II	2
	DAN 37310 MUSIC FOR DANCERS	3
!	Ballet Technique	2
!	Modern Dance Technique	3
	Kent Core Requirement	3
Credit Hours		15
Semester Five		
!	DAN 37053 PRINCIPLES OF DANCE MECHANICS II or DANCE HISTORY I or DAN 47063	2-3
!	DAN 37070 DANCE COMPOSITION III	2
	DAN 37192 DANCE PRACTICUM (ELR)	1
!	DAN 47060 PROFESSIONAL ASPECTS IN DANCE or JAZZ STYLES III or DAN 47070	2
!	Ballet Technique	2
!	Modern Dance Technique	3
	Dance (DAN) or Theatre (THEA) Elective	2
Credit Hours		14

### Semester Six

Requirement: present choreography in Student Dance Festival

!	DAN 37072 DANCE AND TECHNOLOGY or DAN 47163	2-3
!	DAN 47170 JAZZ STYLES IV or Kent Core Requirement	2-3
!	Ballet Technique	2
!	Modern Dance Technique	3
	Kent Core Requirement	3
	Kent Core Requirement	3
Credit Hours		15

### Semester Seven

!	Additional Ballet and Modern Dance Technique (DAN 30000 and/or 40000 level)	5
!	DAN 37053 PRINCIPLES OF DANCE MECHANICS II or DANCE HISTORY I or DAN 47063	2-3
!	DAN 47060 PROFESSIONAL ASPECTS IN DANCE or JAZZ STYLES III or DAN 47070	2
	Dance or Theatre Elective	2
	Kent Core Requirement	3
Credit Hours		15

### Semester Eight

!	Additional Ballet and Modern Dance Technique (DAN 30000 and/or 40000 level)	5
!	DAN 37072 DANCE AND TECHNOLOGY or DANCE HISTORY II (WIC) or DAN 47163	2-3
!	DAN 47174 SENIOR CHOREOGRAPHY PROJECT (ELR)	1
!	DAN 47170 JAZZ STYLES IV or Kent Core Requirement	2-3
	Dance or Theatre Elective	2
Credit Hours		14
Minimum Total Credit Hours:		121

## Dance - Minor

### College of the Arts

School of Theatre and Dance - Dance Division

D101 Center for the Performing Arts

Kent Campus

330-672-2069

dance@kent.edu

www.kent.edu/theatredance

## Description

The Dance minor provides students with an understanding of dance through its contemporary applications.

Students are eligible to enroll in studio level dance courses without auditioning. Students who plan to enroll in professional level dance classes must pass a dance audition.

### Fully Offered At:

- Kent Campus



## Admission Requirements

Admission to a minor is open to students declared in a bachelor's degree, the A.A.B. or A.A.S. degree or the A.T.S. degree (not Individualized Program major). Students declared only in the A.A. or A.S. degree or the A.T.S. degree in Individualized Program may not declare a minor. Students may not pursue a minor and a major in the same discipline.

## Minor Requirements

Code	Title	Credit Hours
<b>Minor Requirements</b>		
DAN 17053	PRINCIPLES OF DANCE MECHANICS I	2
DAN 27074	DANCE COMPOSITION I	3
Dance Techniques Lower-Division Electives, choose from the following:		9
DAN 17001	STUDIO MODERN I <sup>1</sup>	
DAN 17002	STUDIO MODERN DANCE II <sup>1</sup>	
DAN 17004	STUDIO JAZZ I <sup>1</sup>	
DAN 17005	STUDIO JAZZ II <sup>1</sup>	
DAN 17007	STUDIO TAP I <sup>1</sup>	
DAN 17008	STUDIO TAP II <sup>1</sup>	
DAN 17010	STUDIO BALLET I <sup>1</sup>	
DAN 17011	STUDIO BALLET II <sup>1</sup>	
DAN 17012	STUDIO BALLET III <sup>1</sup>	
DAN 17013	STUDIO AFRICAN DANCE I <sup>1</sup>	
DAN 17016	STUDIO SWING DANCE I <sup>1</sup>	
DAN 17019	STUDIO HIP HOP I <sup>1</sup>	
DAN 17020	STUDIO HIP HOP II <sup>1</sup>	
DAN 17049	FUNDAMENTALS OF BALLET AND MODERN DANCE <sup>1</sup>	
DAN 17051	MODERN DANCE TECHNIQUE I-A <sup>1,2</sup>	
DAN 17052	BALLET I-A <sup>1,2</sup>	
DAN 17055	STUDIO MEN'S BALLET	
DAN 17100	STUDIO POINTE I	
DAN 17150	STUDIO POINTE II	
DAN 17151	MODERN DANCE TECHNIQUE I-B <sup>1,2</sup>	
DAN 17152	BALLET I-B <sup>1,2</sup>	
DAN 27070	JAZZ STYLES I <sup>1</sup>	
DAN 27071	MODERN DANCE TECHNIQUE II-A <sup>1,2</sup>	
DAN 27072	BALLET II-A <sup>1,2</sup>	
DAN 27170	JAZZ STYLES II <sup>1</sup>	
DAN 27171	MODERN DANCE TECHNIQUE II-B <sup>1,2</sup>	
DAN 27172	BALLET II-B <sup>1,2</sup>	
Dance Upper-Division Electives, choose from the following:		6
DAN 37035	DANCE COMPOSITION II	
DAN 37053	PRINCIPLES OF DANCE MECHANICS II	
DAN 37057	DANCE FOR CHILDREN	
DAN 37058	METHODS AND MATERIALS OF DANCE	
DAN 37067	BALLET III-A <sup>1,2</sup>	
DAN 37068	MODERN DANCE TECHNIQUE III-A <sup>1,2</sup>	
DAN 37070	DANCE COMPOSITION III	
DAN 37072	DANCE AND TECHNOLOGY	
DAN 37167	BALLET III-B <sup>1,2</sup>	
DAN 37168	MODERN DANCE TECHNIQUE III-B <sup>1,2</sup>	
DAN 37192	DANCE PRACTICUM (ELR) <sup>3</sup>	
DAN 37310	MUSIC FOR DANCERS	
DAN 47060	PROFESSIONAL ASPECTS IN DANCE	

DAN 47063	DANCE HISTORY I
DAN 47070	JAZZ STYLES III <sup>1</sup>
DAN 47095	SPECIAL TOPICS IN DANCE
DAN 47163	DANCE HISTORY II (WIC)
DAN 47170	JAZZ STYLES IV <sup>1</sup>
DAN 47196	INDIVIDUAL INVESTIGATION IN DANCE

Minimum Total Credit Hours: 20

- <sup>1</sup> Course may be repeated twice for credit towards minor requirements.
- <sup>2</sup> Students must audition for placement into the course.
- <sup>3</sup> An additional concert audition may be required for DAN 37192.

## Graduation Requirement

Minimum Minor GPA	Minimum Overall GPA
2.250	2.000

- Minimum 6 credit hours in the minor must be upper-division coursework (30000 and 40000 level).
- Minimum 6 credit hours in the minor must be outside of the course requirements for any major or other minor the student is pursuing.
- Minimum 50 percent of the total credit hours for the minor must be taken at Kent State (in residence).

## Dance Studies - B.A.

### College of the Arts

School of Theatre and Dance - Dance Division  
 D101 Center for the Performing Arts  
 Kent Campus  
 330-672-2069  
[dance@kent.edu](mailto:dance@kent.edu)  
[www.kent.edu/theatredance](http://www.kent.edu/theatredance)

## Description

The Bachelor of Arts degree in Dance Studies allows students who have previous dance experience and a strong interest in another subject area, within or outside of the arts, the opportunity to combine the two into one degree option. The curriculum provides students with a solid foundation in dance techniques and dance academics while allowing flexibility to incorporate another area or minor.

The B.A. degree program encourages exploration of areas that can be combined with dance to enhance opportunities for future employment.

### Fully Offered At:

- Kent Campus

## Accreditation

National Association of Schools of Dance (NASD).

## Admission Requirements

The university affirmatively strives to provide educational opportunities and access to students with varied backgrounds, those with special talents and adult students who graduated from high school three or more years ago.

Admission to this major is selective. Students must audition before being admitted to the Dance Studies major. Inquiries can be directed to the coordinator of the Dance Division, D-101C Center for the Performing Arts, Kent State University, Kent, OH 44242-0001 (or call 330-672-2069).

For more information on admissions, including additional requirements for some academic programs, visit the admissions website for new freshmen and the admissions website for transfer, transitioning and former students.

#### English Language Proficiency Requirements for International Students:

All international students must provide proof of English language proficiency (unless they meet specific exceptions) by earning a minimum 525 TOEFL score (71 on the Internet-based version), minimum 75 MELAB score, minimum 6.0 IELTS score or minimum 48 PTE Academic score, or by completing the ELS level 112 Intensive Program. For more information on international admission, visit the Office of Global Education's admission website.

## Program Learning Outcomes

Graduates of this program will be able to:

1. Demonstrate knowledge and/or skills in one or more areas of dance, as well as an understanding of the vocabulary of dance and of the interaction of these elements, and employ this knowledge to work conceptually with the elements of dance.
2. Demonstrate an understanding of choreographic processes, aesthetic properties of style and the ways these shape and are shaped by artistic and cultural ideas and contexts.
3. Develop and defend critical evaluations.

## University Requirements

All students in a bachelor's degree program at Kent State University must complete the following university requirements for graduation.

**NOTE:** University requirements may be fulfilled in this program by specific course requirements. Please see Program Requirements for details.

Destination Kent State: First Year Experience	1
Course is not required for students with 25 transfer credits, excluding College Credit Plus, or age 21+ at time of admission.	
Diversity Domestic/Global (DIVD/DIVG)	2 courses
Students must successfully complete one domestic and one global course, of which one must be from the Kent Core.	
Experiential Learning Requirement (ELR)	varies
Students must successfully complete one course or approved experience.	
Kent Core (see table below)	36-37
Writing-Intensive Course (WIC)	1 course
Students must earn a minimum C grade in the course.	
Upper-Division Requirement	39 (or 42)
Students must successfully complete 39 upper-division (numbered 30000 to 49999) credit hours to graduate. Students in a B.A. and/or B.S. degree in the College of Arts and Sciences must complete 42 upper-division credit hours.	
Total Credit Hour Requirement	120
Some bachelor's degrees require students to complete more than 120 credit hours.	

## Kent Core Requirements

Kent Core Composition (KCMP)	6
Kent Core Mathematics and Critical Reasoning (KMCR)	3
Kent Core Humanities and Fine Arts (KHUM/KFA) (min one course each)	9
Kent Core Social Sciences (KSS) (must be from two disciplines)	6
Kent Core Basic Sciences (KBS/KLAB) (must include one laboratory)	6-7
Kent Core Additional (KADL)	6
<b>Total Credit Hours:</b>	<b>36-37</b>

## Program Requirements

### Major Requirements

Code	Title	Credit Hours
<b>Major Requirements (courses count in major GPA)</b>		
DAN 17051	MODERN DANCE TECHNIQUE I-A (min B grade) <sup>1</sup>	3
DAN 17052	BALLET I-A (min B grade) <sup>1</sup>	2
DAN 17053	PRINCIPLES OF DANCE MECHANICS I	2
DAN 17151	MODERN DANCE TECHNIQUE I-B (min B grade) <sup>1</sup>	3
DAN 17152	BALLET I-B (min B grade) <sup>1</sup>	2
DAN 27070	JAZZ STYLES I	2
DAN 27071	MODERN DANCE TECHNIQUE II-A (min B grade) <sup>1</sup>	3
DAN 27072	BALLET II-A (min B grade) <sup>1</sup>	2
DAN 27074	DANCE COMPOSITION I	3
DAN 27076	DANCE AS AN ART FORM (DIVG) (KFA)	3
DAN 27170	JAZZ STYLES II	2
DAN 27171	MODERN DANCE TECHNIQUE II-B (min B grade) <sup>1</sup>	3
DAN 27172	BALLET II-B (min B grade) <sup>1</sup>	2
DAN 37035	DANCE COMPOSITION II	2
DAN 37057	DANCE FOR CHILDREN	3
or DAN 37058	METHODS AND MATERIALS OF DANCE	
DAN 37072	DANCE AND TECHNOLOGY	2
DAN 37192	DANCE PRACTICUM (ELR)	2
DAN 37310	MUSIC FOR DANCERS	3
DAN 47063	DANCE HISTORY I	3
DAN 47163	DANCE HISTORY II (WIC) <sup>2</sup>	3
DAN 47175	CAPSTONE PROJECT (ELR)	1
Production Electives, choose from the following:		3
THEA 11732 & THEA 11733	FUNDAMENTALS OF PRODUCTION II: COSTUMES, LIGHTING AND PROJECTIONS and FUNDAMENTALS OF PRODUCTION LABORATORY III: COSTUMES	
or THEA 11734	FUNDAMENTALS OF PRODUCTION LABORATORY IV: LIGHTING, SOUND AND PROJECTIONS	
Additional Dance Technique, choose from the following (min B grade):		4-6
DAN 37067	BALLET III-A <sup>3</sup>	
DAN 37068	MODERN DANCE TECHNIQUE III-A <sup>3</sup>	
DAN 37167	BALLET III-B <sup>3</sup>	
DAN 37168	MODERN DANCE TECHNIQUE III-B <sup>3</sup>	
DAN 47055	BALLET IV-A <sup>3</sup>	
DAN 47070	JAZZ STYLES III <sup>3</sup>	
DAN 47155	BALLET IV-B <sup>3</sup>	

DAN 47170 JAZZ STYLES IV<sup>3</sup>**Additional Requirements (courses do not count in GPA)**

UC 10097	DESTINATION KENT STATE: FIRST YEAR EXPERIENCE	1
Kent Core Composition		6
Kent Core Mathematics and Critical Reasoning		3
Kent Core Humanities and Fine Arts (minimum one course from each)		6
Kent Core Social Sciences (must be from two disciplines)		6
Kent Core Basic Sciences (must include one laboratory)		6-7
Kent Core Additional		6
General Electives (total credit hours depends on earning 120 credit hours, including 39 upper-division credit hours)		28
Minimum Total Credit Hours:		120

<sup>1</sup> Minimum B grade is required for promotion to the next technique level.

<sup>2</sup> A minimum C grade must be earned to fulfill the writing-intensive requirement.

<sup>3</sup> Courses may be repeated twice for credit towards the program requirements.

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## Graduation Requirements

Minimum Major GPA	Minimum Overall GPA
2.500	2.000

- A minimum B and C grade is required in some courses.
- All majors must participate in dance faculty juries and an annual review. Students wishing to participate in main stage performances are required to be enrolled in a professional-level technique class during the semester/s in which they are rehearsing and/or performing.

## Roadmap

This roadmap is a recommended semester-by-semester plan of study for this major. However, courses designated as critical (!) must be completed in the semester listed to ensure a timely graduation.

Semester One		Credits
DAN 27070	JAZZ STYLES I	2
DAN 27076	DANCE AS AN ART FORM (DIVG) (KFA)	3
DAN 37192	DANCE PRACTICUM (ELR)	1
UC 10097	DESTINATION KENT STATE: FIRST YEAR EXPERIENCE	1
!	Ballet Technique	2
!	Modern Dance Technique	3
Kent Core Requirement		3
Credit Hours		15
Semester Two		Credits
!	DAN 17053 PRINCIPLES OF DANCE MECHANICS I	2
!	Ballet Technique	2
!	Modern Dance Technique	3
DAN 27170	JAZZ STYLES II	2
Kent Core Requirement		3
Kent Core Requirement		3
Credit Hours		15
Semester Three		Credits
!	DAN 27074 DANCE COMPOSITION I	3
!	Ballet Technique	2
!	Modern Dance Technique	3
DAN 37192	DANCE PRACTICUM (ELR)	1
Kent Core Requirement		3
Kent Core Requirement		3
Credit Hours		15
Semester Four		Credits
!	DAN 37035 DANCE COMPOSITION II	2
!	Ballet Technique	2
!	Modern Dance Technique	3
DAN 37310	MUSIC FOR DANCERS	3
Kent Core Requirement		3
Kent Core Requirement		3
Credit Hours		16
Semester Five		Credits
DAN 47063	DANCE HISTORY I	3
Additional Dance Technique		2-3
Kent Core Requirement		3
Kent Core Requirement		3
General Electives		4
Credit Hours		15
Semester Six		Credits
Requirement: present choreography in Student Dance Festival		
!	DAN 37057 DANCE FOR CHILDREN or DAN 37058 or METHODS AND MATERIALS OF DANCE	3
!	DAN 37072 DANCE AND TECHNOLOGY	2
DAN 47163	DANCE HISTORY II (WIC)	3
Additional Dance Technique		2-3
Kent Core Requirement		3
General Electives		2
Credit Hours		15

Semester Seven		Credits
!	Production Electives	3
Kent Core Requirement		3
General Electives		9
Credit Hours		15
Semester Eight		Credits
!	DAN 47175 CAPSTONE PROJECT (ELR)	1
General Electives		13
Credit Hours		14
Minimum Total Credit Hours:		120

## Lighting Design and Technology - Minor

### College of the Arts

School of Theatre and Dance - Theatre Division  
B141 Center for the Performing Arts  
Kent Campus  
330-672-2082  
theatre@kent.edu  
www.kent.edu/theatredance

## Description

The Lighting Design and Technology minor provides an understanding of the process and practice of lighting design and technology.

### Fully Offered At:

- Kent Campus

## Admission Requirements

Admission to a minor is open to students declared in a bachelor's degree, the A.A.B. or A.A.S. degree or the A.T.S. degree (not Individualized Program major). Students declared only in the A.A. or A.S. degree or the A.T.S. degree in Individualized Program may not declare a minor. Students may not pursue a minor and a major in the same discipline.

## Minor Requirements

Code	Title	Credit Hours
<b>Minor Requirements</b>		
THEA 11000 or THEA 11100	THE ART OF THE THEATRE (DIVG) (KFA) MAKING THEATRE: CULTURE AND PRACTICE	2-3
THEA 11732	FUNDAMENTALS OF PRODUCTION II: COSTUMES, LIGHTING AND PROJECTIONS	2
THEA 11734	FUNDAMENTALS OF PRODUCTION LABORATORY IV: LIGHTING, SOUND AND PROJECTIONS	1
THEA 21522	LIGHTING DESIGN	3
THEA 22092 or THEA 42092	PRACTICUM: DESIGN AND TECHNOLOGY (ELR) PRACTICUM II: DESIGN AND TECHNOLOGY (ELR)	3
THEA 41521	ADVANCED LIGHTING TECHNOLOGY I	3
THEA 41522	DESIGN STUDIO: LIGHTING	3
THEA 41526 or THEA 41992	ADVANCED LIGHTING TECHNOLOGY II THEATRE PRODUCTION INTERNSHIP (ELR)	3

or THEA 42092 PRACTICUM II: DESIGN AND TECHNOLOGY (ELR)

Minimum Total Credit Hours: 20

## Graduation Requirements

Minimum Minor GPA	Minimum Overall GPA
2.250	2.000

- Minimum 6 credit hours in the minor must be upper-division coursework (30000 and 40000 level).
- Minimum 6 credit hours in the minor must be outside of the course requirements for any major or other minor the student is pursuing.
- Minimum 50 percent of the total credit hours for the minor must be taken at Kent State (in residence).

## Musical Theatre - B.F.A.

### College of the Arts

School of Theatre and Dance - Theatre Division

B141 Center for the Performing Arts

Kent Campus

330-672-2082

theatre@kent.edu

www.kent.edu/theatredance

## Description

The Bachelor of Fine Arts degree in Musical Theatre prepares students for life as working artists in the musical theatre field. Practical training and creative experiences are coupled with an interdisciplinary liberal arts curriculum and a foundation in theatre history, analysis and criticism.

Students will be able to study and perform in the school's theatrical and dance productions. Kent State's Center for the Performing Arts houses three theatres, performance and rehearsal spaces, costume shop and laboratories for costumes, drafting, lighting and scenery. In addition, the School of Theatre and Dance oversees the outdoor venue Porthouse Theatre.

Students in their senior year may participate in the annual New York City Musical Theatre Showcase, which enables students to perform for prospective casting directors, talent managers and theatrical and commercial agents.

### Fully Offered At:

- Kent Campus

## Accreditation

National Association of Schools of Theatre (NAST).

## Admission Requirements

The university affirmatively strives to provide educational opportunities and access to students with varied backgrounds, those with special talents and adult students who graduated from high school three or more years ago.

Admission to this major is selective. Applicants must pass an audition in each of the three performance areas—dance, singing and acting—to be admitted. Students who pass the audition will be admitted directly

into the major in the first semester of their first year at Kent State. In exceptional cases, students may be admitted to the program in the second semester of their first year.

### English Language Proficiency Requirements for International Students:

All international students must provide proof of English language proficiency (unless they meet specific exceptions) by earning a minimum 525 TOEFL score (71 on the Internet-based version), minimum 75 MELAB score, minimum 6.0 IELTS score or minimum 48 PTE Academic score, or by completing the ELS level 112 Intensive Program. For more information on international admission, visit the Office of Global Education's admission website.

## Program Learning Outcomes

Graduates of this program will be able to:

1. Demonstrate proficiencies that are equal to entry-level positions in the profession or as expected for admission into the Master of Fine Arts degree as a singer, actor and/or dancer.
2. Demonstrate and articulate proficiency and understanding in and of music performance and theory, basic dance performance and technique and acting and acting theory/systems.
3. Demonstrate understanding of how acting and storytelling are the foundation of all three interrelated areas of performance (acting, singing and dance).
4. Demonstrate correct and aesthetically pleasing technique in movement and dance.
5. Demonstrate and articulate correct and aesthetically pleasing technique in the execution of vocal performance, sight-singing, musicianship and music theory.
6. Demonstrate and articulate correct and aesthetically pleasing technique in acting and acting theory/systems.
7. Perform in workshops and full productions of musical theatre in a variety of formal and informal settings.
8. Develop substantial and appropriate audition repertoire.
9. Demonstrate proficiency in audition technique.
10. Demonstrate professional behavior in respect for the craft.

## University Requirements

All students in a bachelor's degree program at Kent State University must complete the following university requirements for graduation.

**NOTE:** University requirements may be fulfilled in this program by specific course requirements. Please see Program Requirements for details.

Destination Kent State: First Year Experience	1
Course is not required for students with 25 transfer credits, excluding College Credit Plus, or age 21+ at time of admission.	
Diversity Domestic/Global (DIVD/DIVG)	2 courses
Students must successfully complete one domestic and one global course, of which one must be from the Kent Core.	
Experiential Learning Requirement (ELR)	varies
Students must successfully complete one course or approved experience.	
Kent Core (see table below)	36-37
Writing-Intensive Course (WIC)	1 course
Students must earn a minimum C grade in the course.	
Upper-Division Requirement	39 (or 42)



Students must successfully complete 39 upper-division (numbered 30000 to 49999) credit hours to graduate. Students in a B.A. and/or B.S. degree in the College of Arts and Sciences must complete 42 upper-division credit hours.

Total Credit Hour Requirement	120
Some bachelor's degrees require students to complete more than 120 credit hours.	

## Kent Core Requirements

Kent Core Composition (KCOMP)	6
Kent Core Mathematics and Critical Reasoning (KMCR)	3
Kent Core Humanities and Fine Arts (KHUM/KFA) (min one course each)	9
Kent Core Social Sciences (KSS) (must be from two disciplines)	6
Kent Core Basic Sciences (KBS/KLAB) (must include one laboratory)	6-7
Kent Core Additional (KADL)	6
<b>Total Credit Hours:</b>	<b>36-37</b>

## Program Requirements

### Major Requirements

Code	Title	Credit Hours
<b>Major Requirements (courses count in major GPA)</b>		
MUS 17111	PIANO CLASS I	1
MUS 17112	PIANO CLASS II	1
MUS 36311	APPLIED MUSIC-VOICE (taken four times)	8
THEA 11100	MAKING THEATRE: CULTURE AND PRACTICE	2
THEA 11722	FUNDAMENTALS OF PRODUCTION I: SCENERY, STAGECRAFT AND SOUND	2
THEA 11723	FUNDAMENTALS OF PRODUCTION LABORATORY I: SCENERY	1
or THEA 11724	FUNDAMENTALS OF PRODUCTION LABORATORY II: PROPS AND SCENIC ART	
THEA 11732	FUNDAMENTALS OF PRODUCTION II: COSTUMES, LIGHTING AND PROJECTIONS	2
THEA 11733	FUNDAMENTALS OF PRODUCTION LABORATORY III: COSTUMES	1
or THEA 11734	FUNDAMENTALS OF PRODUCTION LABORATORY IV: LIGHTING, SOUND AND PROJECTIONS	
THEA 20202	MUSIC THEORY FOR MUSICAL THEATRE I	3
THEA 20203	MUSIC THEORY FOR MUSICAL THEATRE II	3
THEA 21111	SCRIPT ANALYSIS	3
THEA 21303	ACTING PROCESS	3
THEA 21306	MUSICAL THEATRE PERFORMANCE I (taken twice)	6
THEA 22092	PRACTICUM: DESIGN AND TECHNOLOGY (ELR)	3
THEA 31110	HISTORY OF THEATRE AND DRAMA I	3
THEA 31111	HISTORY OF THEATRE AND DRAMA II	3
THEA 31303	CHARACTER AND SCENE STUDY I	3
THEA 31304	CHARACTER AND SCENE STUDY II	3
THEA 41307	MUSICAL THEATRE PERFORMANCE II (taken twice)	6
THEA 42192	PRACTICUM II: PERFORMANCE (ELR)	3
Theatre History or Playwriting Elective, choose from the following:		
DAN 47163	DANCE HISTORY II (WIC) <sup>1</sup>	
THEA 41026	PLAYWRITING (WIC) <sup>1</sup>	

THEA 41140	AMERICAN MUSICAL THEATRE HISTORY (WIC) <sup>1</sup>	
THEA 41620	HISTORY OF PERIOD STYLES FOR THEATRE DESIGNERS (WIC) <sup>1</sup>	
Dance Electives, choose from the following: <sup>2</sup>		8
DAN 17010	STUDIO BALLET I	
DAN 17011	STUDIO BALLET II	
DAN 17052	BALLET I-A	
DAN 17080	MUSICAL THEATRE RUDIMENTS OF JAZZ AND TAP	
DAN 17152	BALLET I-B	
DAN 27070	JAZZ STYLES I	
DAN 27080	MUSICAL THEATRE JAZZ AND TAP I	
DAN 27072	BALLET II-A	
DAN 27170	JAZZ STYLES II	
DAN 27172	BALLET II-B	
DAN 37080	MUSICAL THEATRE JAZZ AND TAP II	
DAN 37081	MUSICAL THEATRE JAZZ AND TAP III	
DAN 37067	BALLET III-A	
DAN 37167	BALLET III-B	
DAN 47055	BALLET IV-A	
DAN 47070	JAZZ STYLES III	
DAN 47080	MUSICAL THEATRE DANCE STYLES I	
DAN 47081	MUSICAL THEATRE DANCE STYLES II	
DAN 47095	SPECIAL TOPICS IN DANCE	
DAN 47155	BALLET IV-B	
DAN 47170	JAZZ STYLES IV	
THEA 41702	MOVEMENT AND DANCE FOR ACTORS	
Guided Electives, choose from the following: (minimum 8 upper division credit hours)		12
MUS 36311	APPLIED MUSIC-VOICE	
MUS 45131	OPERA: SINGER-ACTOR TECHNIQUES	
MUS 47311	VOICE CLASS FOR THE INSTRUMENTALIST	
THEA 21016	MAKEUP FOR STAGE AND SCREEN	
THEA 21700	MOVEMENT I	
THEA 21800	VOICE I	
THEA 31701	MOVEMENT II	
THEA 31801	VOICE II	
THEA 41095	SPECIAL TOPICS IN THEATRE	
THEA 41301	ACTING FOR THE CAMERA I	
THEA 41302	ACTING FOR THE CAMERA II	
THEA 41305	PROFESSIONAL ASPECTS: PERFORMANCE	
THEA 41308	MUSICAL THEATRE AUDITION	
THEA 41499	MUSICAL THEATRE SHOWCASE (ELR)	
THEA 41702	MOVEMENT AND DANCE FOR ACTORS	
THEA 41802	ENSEMBLE SINGING FOR MUSICAL THEATRE	
THEA 42192	PRACTICUM II: PERFORMANCE (ELR)	
Dance (DAN) Courses		
<b>Additional Requirements (courses do not count in major GPA)</b>		
UC 10097	DESTINATION KENT STATE: FIRST YEAR EXPERIENCE	1
Kent Core Composition		6
Kent Core Mathematics and Critical Reasoning		3
Kent Core Humanities and Fine Arts (minimum one course from each)		9
Kent Core Social Sciences (must be from two disciplines)		6
Kent Core Basic Sciences (must include one laboratory)		6-7

Kent Core Additional	6
Minimum Total Credit Hours:	120

- A minimum C grade must be earned to fulfill writing-intensive requirement.
- Enrollment in many of the dance courses are by audition only.

## Progression Requirements

- In order to continue and graduate with the B.F.A. degree, students are expected develop skills equal to entry-level positions in the profession or as expected for admission into a M.F.A. degree program.
- Students on academic probation may not participate in School of Theatre and Dance productions.
- Students may be immediately dismissed from the program for failure to maintain a 2.500 major GPA. Students should strive to maintain a 3.000 overall GPA.
- Students are required to participate in biannual B.F.A. evaluations/ interviews/meetings, and must pass annual evaluation reviews to remain in the program.
- Students are required to participate in annual school screening auditions and, if qualifying, must participate in at least one unified audition.
- Students are required to audition for all main-stage theatre productions and accept roles as cast.
- Students may be subject to probation or dismissal for failing to audition for main-stage productions, for not accepting a role that is offered or for failure to demonstrate continuous skill development and growth in all areas of the program as defined by the Musical Theatre Student Handbook. At the time a student is placed on probation, he or she will be provided written information regarding specific areas for improvement.

## Graduation Requirements

<b>Minimum Major GPA</b>	<b>Minimum Overall GPA</b>
2.500	2.000

## Roadmap

This roadmap is a recommended semester-by-semester plan of study for this major. However, courses designated as critical (!) must be completed in the semester listed to ensure a timely graduation.

Semester One		Credits
MUS 36311	APPLIED MUSIC-VOICE	2
THEA 11100	MAKING THEATRE: CULTURE AND PRACTICE	2
! THEA 21306	MUSICAL THEATRE PERFORMANCE I	3
UC 10097	DESTINATION KENT STATE: FIRST YEAR EXPERIENCE	1
Fundamentals of Production		2
Fundamentals of Production Laboratory		1
Dance Elective		1
Kent Core Requirement		3
Credit Hours		15

Semester Two		Credits
! THEA 20202	MUSIC THEORY FOR MUSICAL THEATRE I	3
! THEA 21303	ACTING PROCESS	3
Fundamentals of Production		2
Fundamentals of Production Laboratory		1

Dance Elective	1
Kent Core Requirement	3
Kent Core Requirement	3
Credit Hours	16

### Semester Three

MUS 36311	APPLIED MUSIC-VOICE	2
! THEA 20203	MUSIC THEORY FOR MUSICAL THEATRE II	3
! THEA 21111	SCRIPT ANALYSIS	3
! THEA 21306	MUSICAL THEATRE PERFORMANCE I	3
Kent Core Requirement	3	
Kent Core Requirement	3	
Credit Hours	17	

### Semester Four

Progression Requirement: minimum 2.50 major GPA

! MUS 17111	PIANO CLASS I	1
! THEA 31303	CHARACTER AND SCENE STUDY I	3
Dance Elective	2	
Guided Elective	3	
Kent Core Requirement	3	
Kent Core Requirement	3	
Credit Hours	15	

### Semester Five

! MUS 17112	PIANO CLASS II	1
! THEA 31110	HISTORY OF THEATRE AND DRAMA I	3
! THEA 31304	CHARACTER AND SCENE STUDY II	3
! THEA 41307	MUSICAL THEATRE PERFORMANCE II	3
Dance Elective	2	
Kent Core Requirement	3	
Credit Hours	15	

### Semester Six

Progression Requirement: minimum 2.50 major GPA

MUS 36311	APPLIED MUSIC-VOICE	2
! THEA 22092	PRACTICUM: DESIGN AND TECHNOLOGY (ELR)	3
! THEA 31111	HISTORY OF THEATRE AND DRAMA II	3
Kent Core Requirement	3	
Kent Core Requirement	3	
Credit Hours	14	

### Semester Seven

! THEA 41307	MUSICAL THEATRE PERFORMANCE II	3
! THEA 42192	PRACTICUM II: PERFORMANCE (ELR)	3
Dance Elective	1	
Guided Electives	6	
Kent Core Requirement	3	
Credit Hours	16	

### Semester Eight

MUS 36311	APPLIED MUSIC-VOICE	2
Theatre History or Playwriting Elective	3	
Dance Elective	1	
Guided Elective	3	
Kent Core Requirement	3	
Credit Hours	12	

Minimum Total Credit Hours: 120

## Scene Design - Minor

### College of the Arts

School of Theatre and Dance - Theatre Division

B141 Center for the Performing Arts  
 Kent Campus  
 330-672-2082  
 theatre@kent.edu  
 www.kent.edu/theatredance

## Description

The Scene Design minor provides an understanding of the process and practice of scene design.

### Fully Offered At:

- Kent Campus

## Admission Requirements

Admission to a minor is open to students declared in a bachelor's degree, the A.A.B. or A.A.S. degree or the A.T.S. degree (not Individualized Program major). Students declared only in the A.A. or A.S. degree or the A.T.S. degree in Individualized Program may not declare a minor. Students may not pursue a minor and a major in the same discipline.

## Minor Requirements

Code	Title	Credit Hours
<b>Minor Requirements</b>		
THEA 11000 or THEA 11100	THE ART OF THE THEATRE (DIVG) (KFA) MAKING THEATRE: CULTURE AND PRACTICE	2-3
THEA 11722	FUNDAMENTALS OF PRODUCTION I: SCENERY, STAGECRAFT AND SOUND	2
THEA 11723	FUNDAMENTALS OF PRODUCTION LABORATORY I: SCENERY	1
THEA 21521	THEATRICAL DRAFTING	3
THEA 21622	SCENE DESIGN	3
THEA 42092	PRACTICUM II: DESIGN AND TECHNOLOGY (ELR) (taken in scenery)	3
Minor Electives, choose from the following:		6
THEA 41420	THEATRICAL DRAFTING II	
THEA 41440	SHOP MANAGEMENT	
THEA 41525	PROPS AND CRAFTS	
THEA 41531	THEATRICAL RIGGING	
THEA 41560	THEATRE FABRICATION TECHNOLOGY	
THEA 41622	DESIGN STUDIO: SCENERY	
THEA 41992	THEATRE PRODUCTION INTERNSHIP (ELR) (taken in scenery)	
THEA 42092	PRACTICUM II: DESIGN AND TECHNOLOGY (ELR) (taken in scenery)	
Minimum Total Credit Hours:		20

## Graduation Requirements

Minimum Minor GPA	Minimum Overall GPA
2.250	2.000

- Minimum 6 credit hours in the minor must be upper-division coursework (30000 and 40000 level).
- Minimum 6 credit hours in the minor must be outside of the course requirements for any major or other minor the student is pursuing.

- Minimum 50 percent of the total credit hours for the minor must be taken at Kent State (in residence).

## Scenic Technology - Minor

### College of the Arts

School of Theatre and Dance - Theatre Division  
 B141 Center for the Performing Arts  
 Kent Campus  
 330-672-2082  
 theatre@kent.edu  
 www.kent.edu/theatredance

## Description

The Scenic Technology minor provides an understanding of the processes and techniques employed in various aspects of scenic and properties construction.

### Fully Offered At:

- Kent Campus

## Admission Requirements

Admission to a minor is open to students declared in a bachelor's degree, the A.A.B. or A.A.S. degree or the A.T.S. degree (not Individualized Program major). Students declared only in the A.A. or A.S. degree or the A.T.S. degree in Individualized Program may not declare a minor. Students may not pursue a minor and a major in the same discipline.

## Minor Requirements

Code	Title	Credit Hours
<b>Minor Requirements</b>		
THEA 11000 or THEA 11100	THE ART OF THE THEATRE (DIVG) (KFA) MAKING THEATRE: CULTURE AND PRACTICE	2-3
THEA 11722	FUNDAMENTALS OF PRODUCTION I: SCENERY, STAGECRAFT AND SOUND	2
THEA 11723	FUNDAMENTALS OF PRODUCTION LABORATORY I: SCENERY	1
THEA 21521	THEATRICAL DRAFTING	3
THEA 42092	PRACTICUM II: DESIGN AND TECHNOLOGY (ELR) (taken in scenery) <sup>1</sup>	3
Minor Electives, choose from the following:		6
THEA 41525	PROPS AND CRAFTS	
THEA 41560	THEATRE FABRICATION TECHNOLOGY	
THEA 41992	THEATRE PRODUCTION INTERNSHIP (ELR) <sup>1</sup>	
THEA 42092	PRACTICUM II: DESIGN AND TECHNOLOGY (ELR) <sup>1</sup>	
Minimum Total Credit Hours:		17

- <sup>1</sup> The internship or practicum (THEA 41992, THEA 42092) must be taken in scenery.

## Graduation Requirements

Minimum Minor GPA	Minimum Overall GPA
2.250	2.000

- Minimum 6 credit hours in the minor must be upper-division coursework (30000 and 40000 level).
- Minimum 6 credit hours in the minor must be outside of the course requirements for any major or other minor the student is pursuing.
- Minimum 50 percent of the total credit hours for the minor must be taken at Kent State (in residence).

## Theatre and Social Change - Minor

### College of the Arts

School of Theatre and Dance - Theatre Division  
B141 Center for the Performing Arts  
Kent Campus  
330-672-2082  
theatre@kent.edu  
www.kent.edu/theatredance

## Description

The Theatre and Social Change minor acquaints the student with historic and cultural aspects of theatrical performance that have influenced the society in which people live.

### Fully Offered At:

- Kent Campus

## Admission Requirements

Admission to a minor is open to students declared in a bachelor's degree, the A.A.B. or A.A.S. degree or the A.T.S. degree (not Individualized Program major). Students declared only in the A.A. or A.S. degree or the A.T.S. degree in Individualized Program may not declare a minor. Students may not pursue a minor and a major in the same discipline.

## Minor Requirements

Code	Title	Credit Hours
<b>Minor Requirements</b>		
THEA 11000 or THEA 11100	THE ART OF THE THEATRE (DIVG) (KFA) MAKING THEATRE: CULTURE AND PRACTICE	2-3
THEA 21111	SCRIPT ANALYSIS	3
THEA 40091	VARIABLE TOPICS SEMINAR: DEVISING THEATRE	3
THEA 41010	THEATRE AND SOCIAL CHANGE	3
THEA 41113	THEATRE IN A MULTICULTURAL AMERICA (DIVD)	3
THEA 41130	THEATRE AND DRAMA IN AMERICA	3
THEA 41191	VARIABLE CONTENT SEMINAR: THEATRE HISTORY, LITERATURE AND THEORY	3
Minimum Total Credit Hours:		20

## Graduation Requirements

Minimum Minor GPA	Minimum Overall GPA
2.250	2.000

- Minimum 6 credit hours in the minor must be upper-division coursework (30000 and 40000 level).

- Minimum 6 credit hours in the minor must be outside of the course requirements for any major or other minor the student is pursuing.
- Minimum 50 percent of the total credit hours for the minor must be taken at Kent State (in residence).

## Theatre Design and Technology - M.F.A.

### College of the Arts

School of Theatre and Dance - Theatre Division  
B141 Center for the Performing Arts  
Kent Campus  
330-672-2082  
theatre@kent.edu  
www.kent.edu/theatredance

*Program is pending approval from the Ohio Department of Higher Education.*

## Description

The Master of Fine Arts degree in Theatre Design and Technology is a terminal degree designed for those who are interested in achieving the artistry and skills necessary to qualify as practicing professionals in the entertainment industry and/or professional theatre educators. The program is a three-year course of study with a flexible curriculum for students to explore areas of special interest.

The Theatre Design and Technology major comprises the following concentrations:

- The **Costume Design and Technology** concentration prepares students for careers in the entertainment industry, professional theatre or theatre education. Students study both design and technology, including related areas such as dye techniques, costume crafts and wigs and makeup. Students also design costumes for main-stage departmental productions. The curriculum includes core classes in theatre history, dramatic theory and historical periods.
- The **Lighting Design** concentration balances instruction and experience in lighting design with instruction and experience in lighting technology. Studies include digital rendering, CAD, lighting technology and automated lighting. Students research and study all of aspects of theatrical lighting, including the design process from concept to execution, communication skills, integration of technology into design, documentation of the work and critical evaluation of the work.
- The **Scene Design** concentration balances focused classroom instruction with practical design and production experience. Students also study related artisan areas such as digital and traditional rendering techniques, 3D CAD, props, fabrication, scene painting and presentation techniques with particular emphasis on integrating contemporary digital techniques into the design process. The curriculum contains courses in construction theory, rigging, costume crafts and projection/media design.
- The **Technical Direction** concentration provides students with training and practical experiences in planning main stage productions for the School of Theatre and Dance. Studies focus on safety and all logistics of production assembly, including touring and dance. Technical directors have the opportunity work in four very different theatre spaces: black box, large proscenium, thrust and open outdoor.

**Fully Offered At:**

- Kent Campus

**Accreditation**

National Association of Schools of Theatre

**Admission Requirements**

- Bachelor's degree from an accredited college or university for unconditional admission
- Minimum 3.000 undergraduate GPA on a 4.000 point scale for unconditional admission
- Official transcript(s)
- Résumé
- Goal statement
- Three letters of recommendation
- Portfolio review
- Interview
- English language proficiency - all international students must provide proof of English language proficiency (unless they meet specific exceptions) by earning one of the following:
  - Minimum 525 TOEFL PBT score (paper-based version)
  - Minimum 71 TOEFL IBT score (Internet-based version)
  - Minimum 74 MELAB score
  - Minimum 6.0 IELTS score
  - Minimum 50 PTE score
  - Minimum 100 Duolingo test score

For more information about graduate admissions, please visit the Graduate Studies website. For more information on international admission, visit the Office of Global Education website.

**Program Learning Outcomes**

Graduates of this program will be able to:

1. Acquire creative and technical ability to develop the design of a production from concept to finished product.
2. Acquire advanced abilities in the unification of all design elements used in professional production.
3. Understand analytical or academically oriented theatre studies in areas related to and supportive of the work in the major field such as history, theory, dramatic literature and performance studies.
4. Understand information resources associated with theatrical design and production.
5. Produce full working drawings for mounted productions.
6. Analyze text, music and dance and the ways that historical, critical and theoretical content inform playwriting, acting, directing and design.
7. Communicate ideas clearly and effectively to the theatre community, production teams and the public.
8. Know the history of their area of specialization and have the ability to integrate that history into production design.
9. Know current technology, tools and methods in their area of specialization and have the ability to integrate technology into production design.
10. Know health and safety practices associated with theatre production.

11. Communicate and navigate effectively within the field of professional theatrical production design.
12. Demonstrate an understanding of professional ethics and practice.

**Program Requirements****Major Requirements**

Code	Title	Credit Hours
<b>Major Requirements</b>		
THEA 51113 or THEA 51115 or THEA 51191 or THEA 51624 or THEA 61531	THEATRE IN A MULTICULTURAL AMERICA LGBTQ THEATRE VARIABLE CONTENT SEMINAR: THEATRE HISTORY, LITERATURE AND THEORY HISTORY OF COSTUME AND TEXTILES FOR THEATRE PERIOD STYLE FOR THEATRE DESIGNERS	3
THEA 60992 or THEA 61992	PROFESSIONAL THEATRE INTERNSHIP I PROFESSIONAL THEATRE INTERNSHIP II	3
THEA 61000	INTRODUCTION TO GRADUATE STUDY IN THEATRE	3
THEA 61310	MASTER OF FINE ARTS DESIGN AND TECHNOLOGY CULMINATING PROJECT	3
THEA 61306	PROFESSIONAL ASPECTS: DESIGN AND TECHNOLOGY	3
THEA 61623	DIGITAL RENDERING THEATRE DESIGN	3
THEA 65000	HISTORY, HISTORICISM, THEORY AND PRACTICE IN THEATRE AND DRAMA	3
THEA 61094	COLLEGE TEACHING IN THEATRE <sup>1</sup>	3
<b>Concentrations</b>		
Choose from the following:		36
Costume Design and Technology		
Lighting Design		
Scene Design		
Technical Direction		
Minimum Total Credit Hours:		60

- <sup>1</sup> THEA 61094 is required for graduate assistants only; students not required to take the course will complete an advisor-approved elective to graduate with 60 credit hours.

**Costume Design and Technology Concentration Requirements**

Code	Title	Credit Hours
<b>Concentration Requirements</b>		
THEA 51540	DRAPING FOR THE THEATRE I	3
THEA 51621	PRESENTATION MEDIA	3
THEA 66001	COSTUME DESIGN I: SCRIPT ANALYSIS	2
THEA 66002	COSTUME DESIGN II: PERFORMANCE GENRES	2
THEA 66003	COSTUME DESIGN III: THEATRICAL STYLES	2
THEA 66004	COSTUME DESIGN IV: ADVANCED RENDERING	2
THEA 66005	COSTUME DESIGN V: RESEARCH METHODS	2
THEA 66006	COSTUME DESIGN VI: TEXTILES	2
THEA 66092	PRODUCTION COLLABORATION: COSTUME DESIGN/TECHNOLOGY (repeatable)	8
Concentration Electives, choose from the following:		10
ARTS 55300	TEXTILES: JACQUARD WEAVING	
THEA 51095	SPECIAL TOPICS	
THEA 51525	PROPS AND CRAFTS	



THEA 51529	ADVANCED WIG AND MAKEUP TECHNIQUES-STAGE AND SCREEN	
THEA 51541	DRAPING FOR THE THEATRE II	
THEA 51734	COSTUME PRODUCTION MANAGEMENT	
THEA 52101	DYE TECHNIQUES AND FABRIC MODIFICATION	
THEA 52150	3D CHARACTERS: FOAM FABRICATION AND FIGURE FINISHING TECHNIQUES	
THEA 60196	INDIVIDUAL INVESTIGATION: HISTORIC TEXTILES	
THEA 60992	PROFESSIONAL THEATRE INTERNSHIP I	
THEA 61992	PROFESSIONAL THEATRE INTERNSHIP II	
THEA 65192	TEACHING PRACTICUM	

Minimum Total Credit Hours: 36

## Lighting Design Concentration Requirements

Code	Title	Credit Hours
<b>Concentration Requirements</b>		
THEA 51523	SOUND DESIGN AND TECHNOLOGY I	3
THEA 51562	ADVANCED PROJECTION DESIGN	3
THEA 65001	LIGHTING DESIGN I: DRAMA	2
THEA 65002	LIGHTING DESIGN II: MUSICAL THEATRE	2
THEA 65003	LIGHTING DESIGN III: DANCE AND OPERA	2
THEA 65004	LIGHTING DESIGN IV: NON-TRADITIONAL PRODUCTIONS	2
THEA 65005	LIGHTING DESIGN V: ARCHITECTURAL AND INTERIOR LIGHTING	2
THEA 65006	LIGHTING DESIGN VI: NEW TECHNOLOGY	2
THEA 65092	PRODUCTION COLLABORATION: LIGHTING DESIGN (repeatable)	8

Concentration Electives, choose from the following: 10

THEA 51095	SPECIAL TOPICS	
THEA 51420	THEATRICAL DRAFTING II	
THEA 51430	ADVANCED CONSTRUCTION THEORY	
THEA 51521	ADVANCED LIGHTING TECHNOLOGY I	
THEA 51524	DESIGN STUDIO: COSTUME	
THEA 51525	PROPS AND CRAFTS	
THEA 51526	ADVANCED LIGHTING TECHNOLOGY II	
THEA 51527	SOUND AND DESIGN TECHNOLOGY II	
THEA 51531	THEATRICAL RIGGING	
THEA 51560	THEATRE FABRICATION TECHNOLOGY	
THEA 51621	PRESENTATION MEDIA	
THEA 60992	PROFESSIONAL THEATRE INTERNSHIP I	
THEA 61096	INDIVIDUAL INVESTIGATION: THEATRE AND DRAMA	
THEA 61992	PROFESSIONAL THEATRE INTERNSHIP II	
THEA 65192	TEACHING PRACTICUM	

Minimum Total Credit Hours: 36

## Scene Design Concentration Requirements

Code	Title	Credit Hours
<b>Concentration Requirements</b>		
THEA 51420	THEATRICAL DRAFTING II	3
THEA 51525	PROPS AND CRAFTS	3
THEA 51621	PRESENTATION MEDIA	3
THEA 63001	SCENIC DESIGN I: FOUNDATIONS IN SINGLE SET SCENIC DESIGN	2

THEA 63002	SCENIC DESIGN II: ADVANCED SINGLE SET SCENIC DESIGN	2
THEA 63003	SCENIC DESIGN III: DESIGNING BEYOND DRAMA	2
THEA 63004	SCENIC DESIGN IV: ADVANCED MULTI-SETTING DESIGN	2
THEA 63005	SCENIC DESIGN V: ENTERTAINMENT AND PRODUCTION DESIGN	2
THEA 63006	SCENIC DESIGN VI: NON-TRADITIONAL AND SITE-SPECIFIC PERFORMANCES	2
THEA 63092	PRODUCTION COLLABORATION: SCENIC DESIGN (repeatable)	8

Concentration Electives, choose from the following: 7

THEA 51095	SPECIAL TOPICS	
THEA 51430	ADVANCED CONSTRUCTION THEORY	
THEA 51521	ADVANCED LIGHTING TECHNOLOGY I	
THEA 51526	ADVANCED LIGHTING TECHNOLOGY II	
THEA 51527	SOUND AND DESIGN TECHNOLOGY II	
THEA 51531	THEATRICAL RIGGING	
THEA 51560	THEATRE FABRICATION TECHNOLOGY	
THEA 51562	ADVANCED PROJECTION DESIGN	
THEA 60992	PROFESSIONAL THEATRE INTERNSHIP I	
THEA 61096	INDIVIDUAL INVESTIGATION: THEATRE AND DRAMA	
THEA 61992	PROFESSIONAL THEATRE INTERNSHIP II	
THEA 65192	TEACHING PRACTICUM	

Minimum Total Credit Hours: 36

## Technical Direction Concentration Requirements

Code	Title	Credit Hours
<b>Concentration Requirements</b>		
THEA 51420	THEATRICAL DRAFTING II	3
THEA 51430	ADVANCED CONSTRUCTION THEORY	3
THEA 51531	THEATRICAL RIGGING	3
THEA 64001	THEATRE TECHNICAL DIRECTION I: FOUNDATIONS I	2
THEA 64002	THEATRE TECHNICAL DIRECTION II: FOUNDATIONS II	2
THEA 64003	THEATRE TECHNICAL DIRECTION III: TOURING PRODUCTIONS	2
THEA 64004	THEATRE TECHNICAL DIRECTION IV: EDUCATIONAL THEATRE	2
THEA 64005	THEATRE TECHNICAL DIRECTION V: MECHANICS AND AUTOMATION	2
THEA 64006	THEATRE TECHNICAL DIRECTION VI: HEALTH AND SAFETY	2
THEA 64092	PRODUCTION COLLABORATION: TECHNICAL DIRECTION (repeatable)	8

Concentration Electives, choose from the following: 7

THEA 51095	SPECIAL TOPICS	
THEA 51521	ADVANCED LIGHTING TECHNOLOGY I	
THEA 51525	PROPS AND CRAFTS	
THEA 51526	ADVANCED LIGHTING TECHNOLOGY II	
THEA 51560	THEATRE FABRICATION TECHNOLOGY	
THEA 51621	PRESENTATION MEDIA	
THEA 60992	PROFESSIONAL THEATRE INTERNSHIP I	
THEA 61096	INDIVIDUAL INVESTIGATION: THEATRE AND DRAMA	

THEA 61992	PROFESSIONAL THEATRE INTERNSHIP II
THEA 65192	TEACHING PRACTICUM

Minimum Total Credit Hours:

36

## Progression Requirements

Students must pass semester reviews and are expected to participate in at least one main-stage production each semester, which may be in addition to any production design assignment.

## Graduation Requirements

The culminating project requirements include documentation, portfolio presentation and an exit interview. Documentation consists of a design analysis, process journal, relevant research and other supporting materials (e.g., photos, links to the candidate's website). The scope of work may include, but not necessarily be limited to, evidence of research, drawing and drafting, rendering and associated digital image, video or audio files, which will be presented at an exit interview. The topic of each M.F.A. candidate's culminating project will be proposed by the candidate and based on faculty feedback from yearly portfolio and academic assessments. The student will register for THEA 61310 for the student's project assignment. The process is then documented in a format appropriate for the project and presented to the faculty advisor.

## Theatre Design, Technology and Production - B.F.A.

### College of the Arts

School of Theatre and Dance - Theatre Division

B141 Center for the Performing Arts

Kent Campus

330-672-2082

theatre@kent.edu

www.kent.edu/theatredance

## Description

The Bachelor of Fine Arts degree in Theatre Design, Technology and Production fosters the artistic development of theatre designers, technicians and artisans. Students study both traditional theatre practices and new methods, materials and technologies. Students must demonstrate continued progress through annual portfolio reviews, course work and production responsibilities. In addition, students are expected to complete a significant production assignment each semester.

Students will be able to apply design and technology concepts for the school's theatrical and dance productions. Kent State's Center for the Performing Arts houses three theatres, performance and rehearsal space, a scene shop, a costume shop and laboratories for costumes, drafting, lighting and scenery. In addition, the School of Theatre and Dance oversees the outdoor venue Porthouse Theatre.

The B.F.A. degree program prepares students for M.F.A. degree study, as well as such occupations as scenic designer, costume designer, lighting designer, sound/projection designer, prop master, scenic artist, stage manager, production manager, wardrobe supervisor, technical director and stage technicians.

## Fully Offered At:

- Kent Campus

## Accreditation

National Association of Schools of Theatre (NAST)

## Admission Requirements

The university affirmatively strives to provide educational opportunities and access to students with varied backgrounds, those with special talents and adult students who graduated from high school three or more years ago.

**Freshman Students on the Kent Campus:** The freshman admission policy on the Kent Campus is selective. Admission decisions are based upon the following: cumulative grade point average, ACT and/or SAT scores, strength of high school college preparatory curriculum and grade trends. The Admissions Office at the Kent Campus may defer the admission of students who do not meet admissions criteria but who demonstrate areas of promise for successful college study. Deferred applicants may begin their college coursework at one of seven regional campuses of Kent State University. For more information on admissions, including additional requirements for some academic programs, visit the admissions website for new freshmen.

**Freshman Students on the Regional Campuses:** Kent State campuses at Ashtabula, East Liverpool, Geauga, Salem, Stark, Trumbull and Tuscarawas, as well as the Regional Academic Center in Twinsburg, have open enrollment admission for students who hold a high school diploma, GED or equivalent.

### English Language Proficiency Requirements for International Students:

All international students must provide proof of English language proficiency (unless they meet specific exceptions) by earning a minimum 525 TOEFL score (71 on the Internet-based version), minimum 75 MELAB score, minimum 6.0 IELTS score or minimum 48 PTE score, or by completing the ESL level 112 Intensive Program. For more information on international admission, visit the Office of Global Education's admission website.

**Transfer, Transitioning and Former Students:** For more information about admission criteria for transfer, transitioning and former students, please visit the admissions website.

## Program Learning Outcomes

Graduates of this program will be able to:

1. Demonstrate ability to conceptualize and realize a design aesthetic consistent with the overall artistic concepts of a production.
2. Demonstrate ability to understand and articulate basic elements and principles of design theory.
3. Demonstrate ability to understand and articulate basic elements and principles of composition related to line, shape, color, texture and sound.
4. Demonstrate an understanding of the aesthetic use of color.
5. Demonstrate understanding of aesthetic use of sound.
6. Demonstrate ability to communicate design ideas and realities to other personnel involved in the production, including directors, other designers, stage managers and actors.
7. Demonstrate ability to produce and communicate design ideas with freehand drawings.

8. Demonstrate ability to provide formalized, accurate production models and drawings by hand and/or through the use of current industry standard software programs.
9. Demonstrate fundamental knowledge of the total design process, including the progression of raw materials through multiple design 'shops' and the roles that various craftspeople play in the creation of a finished product.
10. Acquire knowledge of federal, state and local health and safety codes, best practices and industry standards as they relate to theatrical venues and production elements.
11. Prepare and present a professional resume and a portfolio of design- and technology-related work that demonstrate one's abilities, strengths, processes and experiences.
12. Acquire experiences in the design/technology aspects of theatre in a variety of formal and informal settings.

## University Requirements

All students in a bachelor's degree program at Kent State University must complete the following university requirements for graduation.

**NOTE:** University requirements may be fulfilled in this program by specific course requirements. Please see Program Requirements for details.

Destination Kent State: First Year Experience	1
Course is not required for students with 25 transfer credits, excluding College Credit Plus, or age 21+ at time of admission.	
Diversity Domestic/Global (DIVD/DIVG)	2 courses
Students must successfully complete one domestic and one global course, of which one must be from the Kent Core.	
Experiential Learning Requirement (ELR)	varies
Students must successfully complete one course or approved experience.	
Kent Core (see table below)	36-37
Writing-Intensive Course (WIC)	1 course
Students must earn a minimum C grade in the course.	
Upper-Division Requirement	39 (or 42)
Students must successfully complete 39 upper-division (numbered 30000 to 49999) credit hours to graduate. Students in a B.A. and/or B.S. degree in the College of Arts and Sciences must complete 42 upper-division credit hours.	
Total Credit Hour Requirement	120
Some bachelor's degrees require students to complete more than 120 credit hours.	

## Kent Core Requirements

Kent Core Composition (KCOMP)	6
Kent Core Mathematics and Critical Reasoning (KMCR)	3
Kent Core Humanities and Fine Arts (KHUM/KFA) (min one course each)	9
Kent Core Social Sciences (KSS) (must be from two disciplines)	6
Kent Core Basic Sciences (KBS/KLAB) (must include one laboratory)	6-7
Kent Core Additional (KADL)	6
<b>Total Credit Hours:</b>	<b>36-37</b>

## Program Requirements

### Major Requirements

Code	Title	Credit Hours
<b>Major Requirements (courses count in major GPA)</b>		
ARTH 22006	ART HISTORY: ANCIENT AND MEDIEVAL ART (KFA)	3
ARTH 22007	ART HISTORY: RENAISSANCE TO MODERN ART (KFA)	3
THEA 11100	MAKING THEATRE: CULTURE AND PRACTICE	2
THEA 11521	GRAPHICS FOR THE THEATRE	3
THEA 11722	FUNDAMENTALS OF PRODUCTION I: SCENERY, STAGECRAFT AND SOUND <sup>1</sup>	2
THEA 11723	FUNDAMENTALS OF PRODUCTION LABORATORY I: SCENERY	1
THEA 11724	FUNDAMENTALS OF PRODUCTION LABORATORY II: PROPS AND SCENIC ART	1
THEA 11732	FUNDAMENTALS OF PRODUCTION II: COSTUMES, LIGHTING AND PROJECTIONS	2
THEA 11733	FUNDAMENTALS OF PRODUCTION LABORATORY III: COSTUMES	1
THEA 11734	FUNDAMENTALS OF PRODUCTION LABORATORY IV: LIGHTING, SOUND AND PROJECTIONS	1
THEA 13092	BACHELOR OF FINE ARTS FRESHMAN PRACTICUM: DESIGN AND TECHNOLOGY (ELR) (taken twice)	2
THEA 21111	SCRIPT ANALYSIS	3
THEA 21501	SOPHOMORE PORTFOLIO REVIEW	1
THEA 21521	THEATRICAL DRAFTING	3
or THEA 21526	BASIC COSTUME CONSTRUCTION	
THEA 23092	BACHELOR OF FINE ARTS SOPHOMORE PRACTICUM: DESIGN AND TECHNOLOGY (ELR) (taken twice)	2
THEA 31110	HISTORY OF THEATRE AND DRAMA I	3
THEA 31111	HISTORY OF THEATRE AND DRAMA II	3
THEA 31401	DIRECTING	3
or THEA 41734	COSTUME PRODUCTION MANAGEMENT	
or THEA 41736	PRODUCTION AND STAGE MANAGEMENT	
THEA 31501	JUNIOR PORTFOLIO REVIEW	1
THEA 33092	BACHELOR OF FINE ARTS JUNIOR PRACTICUM: DESIGN AND TECHNOLOGY (ELR) (taken twice)	4
THEA 41140	AMERICAN MUSICAL THEATRE HISTORY (WIC) <sup>1</sup>	3
or THEA 41620	HISTORY OF PERIOD STYLES FOR THEATRE DESIGNERS (WIC)	
THEA 41306	PROFESSIONAL ASPECTS: DESIGN AND TECHNOLOGY	3
THEA 41501	SENIOR PORTFOLIO REVIEW	1
THEA 41621	PRESENTATION MEDIA	3
THEA 41900	CAPSTONE PROJECT (ELR)	1-3
THEA 43092	BACHELOR OF FINE ARTS SENIOR PRACTICUM: DESIGN AND TECHNOLOGY (ELR) (taken twice)	4
Theatre Design Elective, choose from the following:		6
THEA 21522	LIGHTING DESIGN	
THEA 21524	COSTUME DESIGN	

THEA 21528	SOUND AND PROJECTION DESIGN AND TECHNOLOGY	
THEA 21622	SCENE DESIGN	
THEA 21736	STAGE MANAGEMENT	
THEA 41522	DESIGN STUDIO: LIGHTING	
THEA 41524	DESIGN STUDIO: COSTUME	
THEA 41622	DESIGN STUDIO: SCENERY	
THEA 41624	HISTORY OF COSTUME AND TEXTILES FOR THEATRE	
THEA 41726	THEATRE MANAGEMENT	
Theatre Design Upper-Division Electives, choose from the following:		9
THEA 41522	DESIGN STUDIO: LIGHTING	
THEA 41524	DESIGN STUDIO: COSTUME	
THEA 41622	DESIGN STUDIO: SCENERY	
THEA 41624	HISTORY OF COSTUME AND TEXTILES FOR THEATRE	
THEA 41726	THEATRE MANAGEMENT	
Theatre Technology Electives, choose from the following:		9
THEA 21016	MAKEUP FOR STAGE AND SCREEN	
THEA 21523	COSTUME TECHNOLOGY	
THEA 21621	SCENE PAINTING	
THEA 31526	FLAT PATTERNING FOR THEATRE	
THEA 41420	THEATRICAL DRAFTING II	
THEA 41430	ADVANCED CONSTRUCTION THEORY	
THEA 41440	SHOP MANAGEMENT	
THEA 41521	ADVANCED LIGHTING TECHNOLOGY I	
THEA 41523	SOUND DESIGN AND TECHNOLOGY I	
THEA 41525	PROPS AND CRAFTS	
THEA 41526	ADVANCED LIGHTING TECHNOLOGY II	
THEA 41527	SOUND DESIGN AND TECHNOLOGY II	
THEA 41528	THEATRE SOUND REINFORCEMENT	
THEA 41529	ADVANCED WIG AND MAKEUP TECHNIQUES-STAGE AND SCREEN	
THEA 41531	THEATRICAL RIGGING	
THEA 41540	DRAPING FOR THE THEATRE I	
THEA 41560	THEATRE FABRICATION TECHNOLOGY	
Theatre Technology Upper-Division Electives, choose from the following:		6
THEA 31526	FLAT PATTERNING FOR THEATRE	
THEA 41420	THEATRICAL DRAFTING II	
THEA 41430	ADVANCED CONSTRUCTION THEORY	
THEA 41440	SHOP MANAGEMENT	
THEA 41521	ADVANCED LIGHTING TECHNOLOGY I	
THEA 41523	SOUND DESIGN AND TECHNOLOGY I	
THEA 41525	PROPS AND CRAFTS	
THEA 41526	ADVANCED LIGHTING TECHNOLOGY II	
THEA 41527	SOUND DESIGN AND TECHNOLOGY II	
THEA 41528	THEATRE SOUND REINFORCEMENT	
THEA 41529	ADVANCED WIG AND MAKEUP TECHNIQUES-STAGE AND SCREEN	
THEA 41531	THEATRICAL RIGGING	
THEA 41540	DRAPING FOR THE THEATRE I	
THEA 41560	THEATRE FABRICATION TECHNOLOGY	
<b>Additional Requirements (courses do not count in major GPA)</b>		
UC 10097	DESTINATION KENT STATE: FIRST YEAR EXPERIENCE	1
Kent Core Composition		6
Kent Core Mathematics and Critical Reasoning		3

Kent Core Humanities	3
Kent Core Social Sciences (must be from two disciplines)	6
Kent Core Basic Sciences (must include one laboratory)	6-7
Kent Core Additional	6
Minimum Total Credit Hours:	120

<sup>1</sup> A minimum C grade must be earned to fulfill the writing-intensive requirement.

## Progression Requirements

- In order to continue and graduate with the B.F.A. degree, students are expected develop skills equal to entry-level positions in the profession or as expected for admission into a M.F.A. degree program.
- Students on academic probation may not participate in any School of Theatre and Dance productions.
- Students may be immediately dismissed from the program for failure to maintain a minimum 2.500 major GPA. B.F.A. degree students should strive to maintain a 3.000 overall GPA.
- Students must pass yearly portfolio reviews and are expected to participate in at least one mainstage production per semester (this may be in addition to any production design assignment).

## Graduation Requirements

Minimum Major GPA	Minimum Overall GPA
2.500	2.000

## Roadmap

This roadmap is a recommended semester-by-semester plan of study for this major. However, courses designated as critical (!) must be completed in the semester listed to ensure a timely graduation.

Semester One		Credits
THEA 11100	MAKING THEATRE: CULTURE AND PRACTICE	2
THEA 11521	GRAPHICS FOR THE THEATRE	3
THEA 13092	BACHELOR OF FINE ARTS FRESHMAN PRACTICUM: DESIGN AND TECHNOLOGY (ELR)	1
UC 10097	DESTINATION KENT STATE: FIRST YEAR EXPERIENCE	1
Fundamentals of Production		2
Fundamentals of Production Laboratories		2
Kent Core Requirement		3
Credit Hours		14
Semester Two		Credits
ARTH 22007	ART HISTORY: RENAISSANCE TO MODERN ART (KFA)	3
THEA 13092	BACHELOR OF FINE ARTS FRESHMAN PRACTICUM: DESIGN AND TECHNOLOGY (ELR)	1
THEA 21521 or THEA 21526	THEATRICAL DRAFTING or BASIC COSTUME CONSTRUCTION	3
Fundamentals of Production		2
Fundamentals of Production Laboratories		2
Kent Core Requirement		3
Kent Core Requirement		3
Credit Hours		17
Semester Three		Credits
THEA 21111	SCRIPT ANALYSIS	3

!	THEA 23092	BACHELOR OF FINE ARTS SOPHOMORE PRACTICUM: DESIGN AND TECHNOLOGY (ELR)	1
	Theatre Design Elective		3
	Theatre Technology Elective		3
	Kent Core Requirement		3
	Kent Core Requirement		3
	Credit Hours		16
<b>Semester Four</b>			
	ARTH 22006	ART HISTORY: ANCIENT AND MEDIEVAL ART (KFA)	3
!	THEA 21501	SOPHOMORE PORTFOLIO REVIEW	1
	THEA 23092	BACHELOR OF FINE ARTS SOPHOMORE PRACTICUM: DESIGN AND TECHNOLOGY (ELR)	1
	Theatre Technology Electives		6
	Kent Core Requirement		3
	Credit Hours		14
<b>Semester Five</b>			
!	THEA 31110	HISTORY OF THEATRE AND DRAMA I	3
	THEA 33092	BACHELOR OF FINE ARTS JUNIOR PRACTICUM: DESIGN AND TECHNOLOGY (ELR)	2
	THEA 41621	PRESENTATION MEDIA	3
	Theatre Technology Upper-Division Electives		6
	Kent Core Requirement		3
	Credit Hours		17
<b>Semester Six</b>			
!	THEA 31111	HISTORY OF THEATRE AND DRAMA II	3
!	THEA 31501	JUNIOR PORTFOLIO REVIEW	1
	THEA 33092	BACHELOR OF FINE ARTS JUNIOR PRACTICUM: DESIGN AND TECHNOLOGY (ELR)	2
	THEA 41140	AMERICAN MUSICAL THEATRE HISTORY (WIC)	3
	or	or HISTORY OF PERIOD STYLES FOR THEATRE DESIGNERS (WIC)	
	THEA 41620		
!	THEA 41306	PROFESSIONAL ASPECTS: DESIGN AND TECHNOLOGY	3
	Kent Core Requirement		3
	Credit Hours		15
<b>Semester Seven</b>			
	THEA 31401	DIRECTING	3
	or	or COSTUME PRODUCTION MANAGEMENT	
	THEA 41734	or PRODUCTION AND STAGE MANAGEMENT	
	or		
	THEA 41736		
	THEA 43092	BACHELOR OF FINE ARTS SENIOR PRACTICUM: DESIGN AND TECHNOLOGY (ELR)	2
	Theatre Design Elective		3
	Theatre Design Upper-Division Elective		3
	Kent Core Requirement		3
	Credit Hours		14
<b>Semester Eight</b>			
!	THEA 41501	SENIOR PORTFOLIO REVIEW	1
	THEA 41900	CAPSTONE PROJECT (ELR)	1-3
	THEA 43092	BACHELOR OF FINE ARTS SENIOR PRACTICUM: DESIGN AND TECHNOLOGY (ELR)	2
	Theatre Design Upper-Division Electives		6
	Kent Core Requirement		3
	Credit Hours		13
	Minimum Total Credit Hours:		120

## Theatre Management - Minor

### College of the Arts

School of Theatre and Dance - Theatre Division

B141 Center for the Performing Arts

Kent Campus

330-672-2082

theatre@kent.edu

www.kent.edu/theatredance

## Description

The Theatre Management minor provides a background in the processes and techniques employed in production, stage and company management.

### Fully Offered At:

- Kent Campus

## Admission Requirements

Admission to a minor is open to students declared in a bachelor's degree, the A.A.B. or A.A.S. degree or the A.T.S. degree (not Individualized Program major). Students declared only in the A.A. or A.S. degree or the A.T.S. degree in Individualized Program may not declare a minor. Students may not pursue a minor and a major in the same discipline.

## Minor Requirements

Code	Title	Credit Hours
<b>Minor Requirements</b>		
THEA 11000	THE ART OF THE THEATRE (DIVG) (KFA)	2-3
or THEA 11100	MAKING THEATRE: CULTURE AND PRACTICE	
THEA 21736	STAGE MANAGEMENT	3
THEA 41736	PRODUCTION AND STAGE MANAGEMENT	3
	Fundamentals of Production Elective, choose from the following:	3
THEA 11722 & THEA 11723	FUNDAMENTALS OF PRODUCTION I: SCENERY, STAGECRAFT AND SOUND and FUNDAMENTALS OF PRODUCTION LABORATORY I: SCENERY	
or THEA 11724	FUNDAMENTALS OF PRODUCTION LABORATORY II: PROPS AND SCENIC ART	
THEA 11732 & THEA 11733	FUNDAMENTALS OF PRODUCTION II: COSTUMES, LIGHTING AND PROJECTIONS and FUNDAMENTALS OF PRODUCTION LABORATORY III: COSTUMES	
or THEA 11734	FUNDAMENTALS OF PRODUCTION LABORATORY IV: LIGHTING, SOUND AND PROJECTIONS	
	Practicum Elective, choose from the following:	3
THEA 22092	PRACTICUM: DESIGN AND TECHNOLOGY (ELR) (taken in theatre management)	
THEA 22292	PRACTICUM I: THEATRE MANAGEMENT (ELR)	
THEA 42092	PRACTICUM II: DESIGN AND TECHNOLOGY (ELR) (taken in theatre management)	
THEA 42292	PRACTICUM II: THEATRE MANAGEMENT (ELR)	
	Minor Electives, choose from the following:	6
THEA 31401	DIRECTING	
THEA 41726	THEATRE MANAGEMENT	



THEA 41992	THEATRE PRODUCTION INTERNSHIP (ELR) (taken in stage management)
THEA 42292	PRACTICUM II: THEATRE MANAGEMENT (ELR)
Minimum Total Credit Hours: 20	

## Graduation Requirements

Minimum Minor GPA	Minimum Overall GPA
2.000	2.000

- Minimum 6 credit hours in the minor must be upper-division coursework (30000 and 40000 level).
- Minimum 6 credit hours in the minor must be outside of the course requirements for any major or other minor the student is pursuing.
- Minimum 50 percent of the total credit hours for the minor must be taken at Kent State (in residence).

## Theatre Performance - Minor

### College of the Arts

School of Theatre and Dance - Theatre Division  
B141 Center for the Performing Arts  
Kent Campus  
330-672-2082  
theatre@kent.edu  
www.kent.edu/theatredance

## Description

The Theatre Performance minor will appeal to students who have an interest in acting. The minor connects traditions of performance, and enables students to relate the context of performing in theatre to other area disciplines.

### Fully Offered At:

- Kent Campus

## Admission Requirements

Admission to a minor is open to students declared in a bachelor's degree, the A.A.B. or A.A.S. degree or the A.T.S. degree (not Individualized Program major). Students declared only in the A.A. or A.S. degree or the A.T.S. degree in Individualized Program may not declare a minor. Students may not pursue a minor and a major in the same discipline.

## Minor Requirements

Code	Title	Credit Hours
<b>Minor Requirements</b>		
THEA 11000 or THEA 11100	THE ART OF THE THEATRE (DIVG) (KFA) MAKING THEATRE: CULTURE AND PRACTICE	2-3
THEA 11303 or THEA 21095	THE ART OF ACTING <sup>1</sup> SPECIAL TOPICS IN THEATRE	3
THEA 21111	SCRIPT ANALYSIS	3
THEA 21303 or THEA 21700 or THEA 21800	ACTING PROCESS MOVEMENT I VOICE I	3
Minor Electives, choose from the following:		9

THEA 31303	CHARACTER AND SCENE STUDY I
THEA 31304	CHARACTER AND SCENE STUDY II
THEA 31401	DIRECTING
THEA 31701	MOVEMENT II
THEA 31801	VOICE II
THEA 41095	SPECIAL TOPICS IN THEATRE
THEA 41301	ACTING FOR THE CAMERA I
THEA 41302	ACTING FOR THE CAMERA II
THEA 41305	PROFESSIONAL ASPECTS: PERFORMANCE
THEA 41308	MUSICAL THEATRE AUDITION
THEA 41703	STAGE COMBAT
THEA 42192	PRACTICUM II: PERFORMANCE (ELR)

Minimum Total Credit Hours: 20

- <sup>1</sup> Students who select THEA 21095 will take it in the Porthouse Theatre Academy in acting, voice and movement.

## Graduation Requirements

Minimum Minor GPA	Minimum Overall GPA
2.250	2.000

- Minimum 6 credit hours in the minor must be upper-division coursework (30000 and 40000 level).
- Minimum 6 credit hours in the minor must be outside of the course requirements for any major or other minor the student is pursuing.
- Minimum 50 percent of the total credit hours for the minor must be taken at Kent State (in residence).

## Theatre Sound - Minor

### College of the Arts

School of Theatre and Dance - Theatre Division  
B141 Center for the Performing Arts  
Kent Campus  
330-672-2082  
theatre@kent.edu  
www.kent.edu/theatredance

## Description

The Theatre Sound minor provides an understanding of the process and techniques employed in the sound design and its practice.

### Fully Offered At:

- Kent Campus

## Admission Requirements

Admission to a minor is open to students declared in a bachelor's degree, the A.A.B. or A.A.S. degree or the A.T.S. degree (not Individualized Program major). Students declared only in the A.A. or A.S. degree or the A.T.S. degree in Individualized Program may not declare a minor. Students may not pursue a minor and a major in the same discipline.

## Minor Requirements

Code	Title	Credit Hours
<b>Minor Requirements</b>		
THEA 11000 or THEA 11100	THE ART OF THE THEATRE (DIVG) (KFA) MAKING THEATRE: CULTURE AND PRACTICE	2-3
THEA 11722	FUNDAMENTALS OF PRODUCTION I: SCENERY, STAGECRAFT AND SOUND	2
THEA 11734	FUNDAMENTALS OF PRODUCTION LABORATORY IV: LIGHTING, SOUND AND PROJECTIONS	1
THEA 21528	SOUND AND PROJECTION DESIGN AND TECHNOLOGY	3
THEA 22092 1	PRACTICUM: DESIGN AND TECHNOLOGY (ELR)	6
or THEA 42092	PRACTICUM II: DESIGN AND TECHNOLOGY (ELR)	
THEA 41523	SOUND DESIGN AND TECHNOLOGY I	3
THEA 41528 or THEA 41527 or THEA 41992 or THEA 42092	THEATRE SOUND REINFORCEMENT SOUND DESIGN AND TECHNOLOGY II THEATRE PRODUCTION INTERNSHIP (ELR) PRACTICUM II: DESIGN AND TECHNOLOGY (ELR)	3
Minimum Total Credit Hours:		20

<sup>1</sup> THEA 22092 and THEA 42092 are repeatable for 6 credit hours and must be taken in sound.

## Graduation Requirement

Minimum Minor GPA	Minimum Overall GPA
2.250	2.000

- Minimum 6 credit hours in the minor must be upper-division coursework (30000 and 40000 level).
- Minimum 6 credit hours in the minor must be outside of the course requirements for any major or other minor the student is pursuing.
- Minimum 50 percent of the total credit hours for the minor must be taken at Kent State (in residence).

## Theatre Studies - B.A.

### College of the Arts

School of Theatre and Dance - Theatre Division  
B141 Center for the Performing Arts  
Kent Campus  
330-672-2082  
theatre@kent.edu  
www.kent.edu/theatredance

## Description

The Bachelor of Arts degree in Theatre Studies gives students an opportunity for study in all aspects of theatre and its relationship to other liberal arts studies. This program serves students who seek a wider range of possibilities to fulfill individual creative goals, whether as theatre artists, scholars, educators and/or contributors in related fields. Students receive thorough grounding in theatre history and theory and learn imaginative and critical thinking, the process of making theatre, and leadership skills.

The Theatre Studies major comprises the following concentrations:

- Performance
- Production
- Theatre Management
- Theatre and Society

### Fully Offered At:

- Kent Campus
- Trumbull Campus (Theatre and Society concentration only)

## Accreditation

The B.A. degree in Theatre Studies is accredited by the National Association of Schools of Theatre (NAST).

## Admission Requirements

The university affirmatively strives to provide educational opportunities and access to students with varied backgrounds, those with special talents and adult students who graduated from high school three or more years ago.

**Freshman Students on the Kent Campus:** The freshman admission policy on the Kent Campus is selective. Admission decisions are based upon the following: cumulative grade point average, ACT and/or SAT scores, strength of high school college preparatory curriculum and grade trends. The Admissions Office at the Kent Campus may defer the admission of students who do not meet admissions criteria but who demonstrate areas of promise for successful college study. Deferred applicants may begin their college coursework at one of seven regional campuses of Kent State University. For more information on admissions, including additional requirements for some academic programs, visit the admissions website for new freshmen.

**Freshman Students on the Regional Campuses:** Kent State campuses at Ashtabula, East Liverpool, Geauga, Salem, Stark, Trumbull and Tuscarawas, as well as the Regional Academic Center in Twinsburg, have open enrollment admission for students who hold a high school diploma, GED or equivalent.

**English Language Proficiency Requirements for International Students:** All international students must provide proof of English language proficiency (unless they meet specific exceptions) by earning a minimum 525 TOEFL score (71 on the Internet-based version), minimum 75 MELAB score, minimum 6.0 IELTS score or minimum 48 PTE score, or by completing the ESL level 112 Intensive Program. For more information on international admission, visit the Office of Global Education's admission website.

**Transfer, Transitioning and Former Students:** For more information about admission criteria for transfer, transitioning and former students, please visit the admissions website.

## Program Learning Outcomes

Graduates of this program will be able to:

1. Understand procedures and approaches for realizing a variety of theatrical styles and techniques.
2. Understand the playwriting and production processes, aesthetic properties of style, and the way these shape and are shaped by artistic and cultural forces.

- Develop intermediate to advanced competence in one or more theatre specializations in creation, performance or scholarship.
- Become acquainted with a diverse selection of theatre repertory, including the principal eras, genres and cultural sources.
- Understand the basic process involved in mounting a theatre production through both verbal and written articulation of ideas and vocabulary, as well as in actual practice.
- Form and defend value judgments about theatre.
- Know common theatrical elements and the interaction of those elements through both written and practicum work.
- Think conceptually and critically about text, performance and production.

## University Requirements

All students in a bachelor's degree program at Kent State University must complete the following university requirements for graduation.

**NOTE:** University requirements may be fulfilled in this program by specific course requirements. Please see Program Requirements for details.

Destination Kent State: First Year Experience	1
Course is not required for students with 25 transfer credits, excluding College Credit Plus, or age 21+ at time of admission.	
Diversity Domestic/Global (DIVD/DIVG)	2 courses
Students must successfully complete one domestic and one global course, of which one must be from the Kent Core.	
Experiential Learning Requirement (ELR)	varies
Students must successfully complete one course or approved experience.	
Kent Core (see table below)	36-37
Writing-Intensive Course (WIC)	1 course
Students must earn a minimum C grade in the course.	
Upper-Division Requirement	39 (or 42)
Students must successfully complete 39 upper-division (numbered 30000 to 49999) credit hours to graduate. Students in a B.A. and/or B.S. degree in the College of Arts and Sciences must complete 42 upper-division credit hours.	
Total Credit Hour Requirement	120
Some bachelor's degrees require students to complete more than 120 credit hours.	

## Kent Core Requirements

Kent Core Composition (KCOMP)	6
Kent Core Mathematics and Critical Reasoning (KMCR)	3
Kent Core Humanities and Fine Arts (KHUM/KFA) (min one course each)	9
Kent Core Social Sciences (KSS) (must be from two disciplines)	6
Kent Core Basic Sciences (KBS/KLAB) (must include one laboratory)	6-7
Kent Core Additional (KADL)	6
<b>Total Credit Hours:</b>	<b>36-37</b>

## Program Requirements

### Major Requirements

Code	Title	Credit Hours
<b>Major Requirements (courses count in major GPA)</b>		
THEA 11100	MAKING THEATRE: CULTURE AND PRACTICE	2
THEA 11303	THE ART OF ACTING	3
THEA 11722	FUNDAMENTALS OF PRODUCTION I: SCENERY, STAGECRAFT AND SOUND	2
THEA 11723	FUNDAMENTALS OF PRODUCTION LABORATORY I: SCENERY	1
THEA 11724	FUNDAMENTALS OF PRODUCTION LABORATORY II: PROPS AND SCENIC ART	1
THEA 11732	FUNDAMENTALS OF PRODUCTION II: COSTUMES, LIGHTING AND PROJECTIONS	2
THEA 11733	FUNDAMENTALS OF PRODUCTION LABORATORY III: COSTUMES	1
THEA 11734	FUNDAMENTALS OF PRODUCTION LABORATORY IV: LIGHTING, SOUND AND PROJECTIONS	1
THEA 21111	SCRIPT ANALYSIS	3
THEA 31110	HISTORY OF THEATRE AND DRAMA I	3
THEA 31111	HISTORY OF THEATRE AND DRAMA II	3
THEA 41900	CAPSTONE PROJECT (ELR)	3
Concentration Elective (not from students' declared concentration)		3
Practicum Electives, choose from the following:		6
THEA 22092	PRACTICUM: DESIGN AND TECHNOLOGY (ELR) 1	
or THEA 42092 PRACTICUM II: DESIGN AND TECHNOLOGY (ELR)		
Writing-Intensive Elective, choose from the following:		3
DAN 47163	DANCE HISTORY II (WIC) <sup>2</sup>	
THEA 41026	PLAYWRITING (WIC) <sup>1,2</sup>	
THEA 41140	AMERICAN MUSICAL THEATRE HISTORY (WIC) 2	
THEA 41620	HISTORY OF PERIOD STYLES FOR THEATRE DESIGNERS (WIC) <sup>2</sup>	
Theatre Electives, choose from the following:		6
DAN 47163	DANCE HISTORY II (WIC) <sup>2</sup>	
THEA 41010	THEATRE AND SOCIAL CHANGE	
THEA 41026	PLAYWRITING (WIC) <sup>1,2</sup>	
THEA 41113	THEATRE IN A MULTICULTURAL AMERICA (DIVD)	
THEA 41115	LGBTQ THEATRE (DIVD)	
THEA 41130	THEATRE AND DRAMA IN AMERICA	
THEA 41140	AMERICAN MUSICAL THEATRE HISTORY (WIC) 2	
THEA 41191	VARIABLE CONTENT SEMINAR: THEATRE HISTORY, LITERATURE AND THEORY <sup>1</sup>	
THEA 41620	HISTORY OF PERIOD STYLES FOR THEATRE DESIGNERS (WIC) <sup>2</sup>	
<b>Additional Requirements (courses do not count in major GPA)</b>		
UC 10097	DESTINATION KENT STATE: FIRST YEAR EXPERIENCE	1
Kent Core Composition		6
Kent Core Mathematics and Critical Reasoning		3
Kent Core Humanities and Fine Arts (minimum one course from each)		9
Kent Core Social Sciences (must be from two disciplines)		6
Kent Core Basic Sciences (must include one laboratory)		6-7

Kent Core Additional	6
General Electives (total credit hours depends on earning 120 credit hours, including 39 upper-division credit hours)	19
<b>Concentrations</b>	
Choose from the following:	21
Performance	
Production	
Theatre Management	
Theatre and Society	
Minimum Total Credit Hours:	120

<sup>1</sup> Course is repeatable for credit.

<sup>2</sup> A minimum C grade must be earned to fulfill writing-intensive requirement.

## Performance Concentration Requirements

Code	Title	Credit Hours
<b>Concentration Requirements (courses count in major GPA)</b>		
Concentration Electives, choose from the following:		21
THEA 21016	MAKEUP FOR STAGE AND SCREEN	
THEA 21303	ACTING PROCESS	
THEA 21700	MOVEMENT I	
THEA 21800	VOICE I	
THEA 22192	PRACTICUM I: PERFORMANCE (ELR) <sup>1</sup>	
THEA 31303	CHARACTER AND SCENE STUDY I	
THEA 31304	CHARACTER AND SCENE STUDY II	
THEA 31401	DIRECTING	
THEA 31701	MOVEMENT II	
THEA 31801	VOICE II	
THEA 41095	SPECIAL TOPICS IN THEATRE <sup>2</sup>	
THEA 41301	ACTING FOR THE CAMERA I	
THEA 41302	ACTING FOR THE CAMERA II	
THEA 41305	PROFESSIONAL ASPECTS: PERFORMANCE	
THEA 41308	MUSICAL THEATRE AUDITION	
THEA 41529	ADVANCED WIG AND MAKEUP TECHNIQUES-STAGE AND SCREEN	
THEA 41702	MOVEMENT AND DANCE FOR ACTORS	
THEA 41802	ENSEMBLE SINGING FOR MUSICAL THEATRE	
THEA 42192	PRACTICUM II: PERFORMANCE (ELR)	

Minimum Total Credit Hours: 21

<sup>1</sup> Course is repeatable for credit.

<sup>2</sup> THEA 41095 should be taken in variable performance seminars.

## Production Concentration Requirements

Code	Title	Credit Hours
<b>Concentration Requirements (courses count in major GPA)</b>		
Concentration Electives, choose from the following:		21
THEA 21016	MAKEUP FOR STAGE AND SCREEN	
THEA 21201	INTRODUCTION TO AMERICAN MUSICAL THEATRE	
THEA 21521	THEATRICAL DRAFTING	
THEA 21522	LIGHTING DESIGN	
THEA 21523	COSTUME TECHNOLOGY	
THEA 21524	COSTUME DESIGN	
THEA 21526	BASIC COSTUME CONSTRUCTION	

THEA 21528	SOUND AND PROJECTION DESIGN AND TECHNOLOGY	
THEA 21621	SCENE PAINTING	
THEA 21622	SCENE DESIGN	
THEA 21736	STAGE MANAGEMENT	
THEA 22092	PRACTICUM: DESIGN AND TECHNOLOGY (ELR) <sup>1</sup>	
THEA 22192	PRACTICUM I: PERFORMANCE (ELR) <sup>1</sup>	
THEA 22292	PRACTICUM I: THEATRE MANAGEMENT (ELR) <sup>1</sup>	
THEA 31526	FLAT PATTERNING FOR THEATRE	
THEA 41026	PLAYWRITING (WIC) <sup>1,2</sup>	
THEA 41027	ADVANCED PLAYWRITING <sup>1</sup>	
THEA 41095	SPECIAL TOPICS IN THEATRE <sup>1,3</sup>	
THEA 41130	THEATRE AND DRAMA IN AMERICA	
THEA 41140	AMERICAN MUSICAL THEATRE HISTORY (WIC) <sup>2</sup>	
THEA 41191	VARIABLE CONTENT SEMINAR: THEATRE HISTORY, LITERATURE AND THEORY <sup>1</sup>	
THEA 41306	PROFESSIONAL ASPECTS: DESIGN AND TECHNOLOGY	
THEA 41531	THEATRICAL RIGGING	
THEA 41540	DRAPING FOR THE THEATRE I	
THEA 41560	THEATRE FABRICATION TECHNOLOGY	
THEA 41736	PRODUCTION AND STAGE MANAGEMENT	
THEA 42092	PRACTICUM II: DESIGN AND TECHNOLOGY (ELR) <sup>1</sup>	
THEA 42192	PRACTICUM II: PERFORMANCE (ELR) <sup>1</sup>	
THEA 42292	PRACTICUM II: THEATRE MANAGEMENT (ELR) <sup>1</sup>	

Minimum Total Credit Hours: 21

<sup>1</sup> Course is repeatable for credit.

<sup>2</sup> A minimum C grade must be earned to fulfill writing-intensive requirement.

<sup>3</sup> THEA 41095 should be taken in variable production seminars.

## Theatre Management Concentration Requirements

Code	Title	Credit Hours
<b>Concentration Requirements (courses count in major GPA)</b>		
Concentration Electives, choose from the following:		21
DAN 47156	DANCE PRODUCTION	
THEA 20202	MUSIC THEORY FOR MUSICAL THEATRE I	
THEA 20203	MUSIC THEORY FOR MUSICAL THEATRE II	
THEA 21521	THEATRICAL DRAFTING	
THEA 21522	LIGHTING DESIGN	
THEA 21523	COSTUME TECHNOLOGY	
THEA 21528	SOUND AND PROJECTION DESIGN AND TECHNOLOGY	
THEA 21736	STAGE MANAGEMENT	
THEA 22092	PRACTICUM: DESIGN AND TECHNOLOGY (ELR) <sup>1</sup>	
THEA 22292	PRACTICUM I: THEATRE MANAGEMENT (ELR) <sup>1</sup>	
THEA 31401	DIRECTING	
THEA 41095	SPECIAL TOPICS IN THEATRE <sup>2</sup>	
THEA 41096	INDEPENDENT STUDY IN THEATRE	
THEA 41191	VARIABLE CONTENT SEMINAR: THEATRE HISTORY, LITERATURE AND THEORY <sup>1</sup>	

THEA 41306	PROFESSIONAL ASPECTS: DESIGN AND TECHNOLOGY
THEA 41420	THEATRICAL DRAFTING II
THEA 41440	SHOP MANAGEMENT
THEA 41523	SOUND DESIGN AND TECHNOLOGY I
THEA 41525	PROPS AND CRAFTS
THEA 41527	SOUND DESIGN AND TECHNOLOGY II
THEA 41528	THEATRE SOUND REINFORCEMENT
THEA 41726	THEATRE MANAGEMENT
THEA 41734	COSTUME PRODUCTION MANAGEMENT
THEA 41736	PRODUCTION AND STAGE MANAGEMENT
THEA 42092	PRACTICUM II: DESIGN AND TECHNOLOGY (ELR) <sup>1</sup>
THEA 42292	PRACTICUM II: THEATRE MANAGEMENT (ELR) <sup>1</sup>
Minimum Total Credit Hours: 21	

<sup>1</sup> Course is repeatable for credit.

<sup>2</sup> THEA 41095 should be taken in variable management seminars.

## Theatre and Society Concentration Requirements

Code	Title	Credit Hours
<b>Concentration Requirements (courses count in major GPA)</b>		
Concentration Electives, choose from the following:		21
DAN 47063	DANCE HISTORY I	
DAN 47163	DANCE HISTORY II (WIC) <sup>2</sup>	
THEA 22192	PRACTICUM I: PERFORMANCE (ELR) <sup>1</sup>	
THEA 31401	DIRECTING	
THEA 40091	VARIABLE TOPICS SEMINAR: DEVISING THEATRE <sup>1</sup>	
THEA 41010	THEATRE AND SOCIAL CHANGE	
THEA 41026	PLAYWRITING (WIC) <sup>1,2</sup>	
THEA 41027	ADVANCED PLAYWRITING <sup>1</sup>	
THEA 41095	SPECIAL TOPICS IN THEATRE <sup>1</sup>	
THEA 41113	THEATRE IN A MULTICULTURAL AMERICA (DIVD)	
THEA 41115	LGBTQ THEATRE (DIVD)	
THEA 41140	AMERICAN MUSICAL THEATRE HISTORY (WIC) <sup>2</sup>	
THEA 41620	HISTORY OF PERIOD STYLES FOR THEATRE DESIGNERS (WIC) <sup>2</sup>	
THEA 42192	PRACTICUM II: PERFORMANCE (ELR) <sup>1</sup>	
Minimum Total Credit Hours:		21

<sup>1</sup> Course is repeatable for credit.

<sup>2</sup> A minimum C grade must be earned to fulfill writing-intensive requirement.

## Graduation Requirements

Minimum Major GPA	Minimum Overall GPA
2.500	2.000

- Students on academic probation may not participate in School of Theatre and Dance productions.
- Students may be dropped from the program for failure to maintain a 2.500 GPA.

## Roadmap

This roadmap is a recommended semester-by-semester plan of study for this major. However, courses designated as critical (!) must be completed in the semester listed to ensure a timely graduation.

Semester One		Credits
THEA 11100	MAKING THEATRE: CULTURE AND PRACTICE	2
THEA 11303	THE ART OF ACTING	3
UC 10097	DESTINATION KENT STATE: FIRST YEAR EXPERIENCE	1
Fundamentals of Production Elective		3
Fundamentals of Production Laboratory		1
Kent Core Requirement		3
Kent Core Requirement		3
Credit Hours		16
Semester Two		
Fundamentals of Production Elective		3
Fundamentals of Production Laboratory		1
Practicum Elective		3
Kent Core Requirement		3
Kent Core Requirement		3
General Elective		2
Credit Hours		15
Semester Three		
THEA 21111	SCRIPT ANALYSIS	3
Practicum Elective		3
Concentration Elective		3
Kent Core Requirement		3
General Elective		3
Credit Hours		15
Semester Four		
Concentration Elective		3
Kent Core Requirement		3
Kent Core Requirement		3
Kent Core Requirement		3
General Elective		3
Credit Hours		15
Semester Five		
! THEA 31110	HISTORY OF THEATRE AND DRAMA I	3
Concentration Elective		3
Concentration Elective (not from students' declared concentration)		3
Kent Core Requirement		3
General Elective		3
Credit Hours		15
Semester Six		
! THEA 31111	HISTORY OF THEATRE AND DRAMA II	3
Theatre Elective		3
Concentration Elective		3
Kent Core Requirement		3
Kent Core Requirement		3
Credit Hours		15
Semester Seven		
THEA 41900	CAPSTONE PROJECT (ELR) (or Kent Core Requirement)	3
Theatre Elective		3
Concentration Elective		3



General Electives	6
Credit Hours	15
<b>Semester Eight</b>	
THEA 41900 CAPSTONE PROJECT (ELR) (or Kent Core Requirement)	3
Theatre Elective	3
Concentration Electives	6
General Elective	2
Credit Hours	14
Minimum Total Credit Hours:	120

students are, therefore, encouraged to select courses that provide an understanding of the arts, humanities and sciences.

## Honors Advising

Students meet with their Honors College advisors at least once per semester. During advising meetings, students are encouraged to develop long-range plans to organize their academic work and co-curricular experiences in accordance with their interests and career aspirations.

## Community

The Stopher-Johnson complex is located at the center of campus. Honors student living there have the best of worlds - a nurturing and stimulating experience with other Honors students as well as convenient access to the surrounding Kent State campus community.

The Honors complex includes the three-story Johnson and Stopher Residence Halls, a library/computer room, a reception lobby and advising offices. Students live just steps from the Honors College dean and its academic advisors.

Student involvement in the affairs of the college is a tradition. For example, Honors students are eligible to serve on the Honors College Policy Council (HOCOPOCO).

## Honors College

### Honors College

20 Stopher Hall  
Kent Campus  
330-672-2312  
honors@kent.edu  
www.kent.edu/honors

## Description

The mission of the Honors College is to provide an enriched educational experience for academically motivated and talented students at Kent State University. Both in and out of the classroom, the college's learning environment provides students with opportunities to interact and share ideas with other bright, motivated students and mentoring professors.

Founded in 1933, the Honors College is at the center of Kent State University's tradition of providing special attention to undergraduates with outstanding intellectual and creative ability. Within the framework of the larger university, with its diverse academic programs and excellent research and library facilities, the Honors College offers students enriched and challenging courses and programs, opportunities for close relationships with their peers and faculty, and careful advising to meet their interests and goals.

## Scholarships

All new freshman who are admitted to the Honors College will automatically be considered for an Honors College scholarship award. Honors College scholarships are renewable for maximum eight semesters of undergraduate work, provided students remain in good standing with the Honors College. These scholarships are in addition to university awards.

## The Honors Concept

The Honors College is guided by two basic principles:

- The first is a responsibility to provide academic work that offers intellectual challenge to the best students in the university and demands of them the best effort of which they are capable. To this end, courses are designed to stretch the mind, sharpen skills and encourage high standards of performance.
- The second principle is a belief that, regardless of degree program, students should be liberally educated. That is, they should understand and appreciate the language, literature and history of our culture; the social, political and economic structure of our society; the creative achievements that enrich our lives; and the basic assumptions and substance of the natural sciences. Honors

## Admission Requirements

The Honors College recruits incoming students who demonstrate the potential for superior academic and creative ability at Kent State University. Admission to the Honors College for new freshman is by invitation only. In addition to the Kent State undergraduate admission application, admission to the college requires an excellent high school grade point average, strong scores on the ACT or SAT and completion of a supplemental application, which includes an essay.

## Honors Work

Honors courses can be used to meet requirements in all degree granting colleges and schools of the university and to also satisfy Kent Core requirements. All honors freshmen are enrolled in the year-long Freshman Honors Colloquium. The colloquium is designed to be a rigorous course in reading, thinking and writing about literature and ideas. The goal of the course is to develop habits of intellectual inquiry, mature understanding and effective communication that will serve the students through the college years and afterward.

Beyond the freshmen colloquium, many Honors courses are offered by distinguished faculty from academic departments throughout the university. Although these courses differ significantly in content, from art to zoology, they share a common form. Class enrollments are small, and students can get to know each other and their professors in an environment that encourages learning through discussion, reading, individual work and writing.

Seniors in the Honors College can conclude their undergraduate careers by completing a sustained scholarly or creative project under faculty guidance. Theses and projects have been submitted by seniors from all of the degree-granting colleges and schools at Kent State University and have ranged over many disciplines and areas of creative endeavor. Novels and plays have been written; research has been undertaken in the natural and social sciences; historical events and periods have been critically analyzed; architectural models have been proposed for urban renewal sites; and paintings and films have been created and exhibited. Each thesis/project attests to the willingness of Honors students to extend

learning beyond the classroom to self-directed efforts appropriate to the conclusion of an enriched program of study.

## Graduation from the Honors College

The college offers three programs for Graduation with Honors. Although each has minimum cumulative GPA requirements, the primary emphasis is on the successful completion of an undergraduate degree program, including a Senior Honors Thesis or Project.

- Graduation with Departmental Honors requires completion of a Senior Honors Thesis or Project and a minimum 3.5 cumulative GPA. The requirements are sufficiently flexible to enable undergraduates who join the college in their junior year to participate in this program.
- Graduation with General Honors requires completion of a Senior Honors Thesis or Project plus 24 Honors College credit hours and a minimum 3.5 cumulative GPA.
- Graduation with University Honors requires completion of a Senior Honors Thesis or Project plus 24 Honors College credit hours and a minimum 3.8 cumulative GPA.

Students who do not wish to complete a Senior Honors Thesis or Project to graduate with Honors may alternatively finish 24 Honors College credit hours and achieve a minimum 3.25 cumulative GPA to graduate from the university as Honors College Scholars.

## Design Innovation (DI)

### DI 10010 SURVEY OF DESIGN INNOVATION NODES 3 Credit Hours

Develop awareness and actively utilize the wide array of shared-resource laboratories and environments across Kent State University's eight campus system that are connected as part of the Design Innovation (DI) Ecosystem. Explore the context of maker-communities, emerging technologies and social innovation resources while working in collaborative cross-disciplinary teams to tackle projects that intentionally connect the capabilities of multiple DI Nodes.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

### DI 20020 BE SMARTER THAN YOUR SMARTPHONE 3 Credit Hours

This course uses the development of the smart phone to illustrate the multi-disciplinary nature of design and innovation. It provides an understanding of the technologies that make the smartphone possible. Specifically, the course covers the role of research and design in product development, the changed in patterns and nature of our communications through smartphones, and the implications for businesses, markets and society. The aim of this course is to introduce the multidisciplinary nature of innovation using the smartphone as an example. It presents the complexities, challenges, and opportunities that the smartphone has created.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

### DI 20100 INTRODUCTION TO DESIGN INNOVATION 3 Credit Hours

This course blends analytical skills, intuition and creative thinking to develop practical solutions to real world problems. Gain a high-level understanding of the design process through team-based projects tackling challenges. Design thinking, methods and strategies offer novel ways to discover market opportunities, experiment to validate concepts and mitigate risk, and deliver value to all. This will be a reflective lecture and small project-based course that addresses the programmatic, technical, business, social and human factors of design in a way that leads to innovation(s) in the development of integrated solutions. Learn how to engage with end users, effectively frame problems, identify potential solutions, build prototypes to test assumptions and learn what works (and doesn't). Then dive into a range of ways large and small to bring design innovation into your daily life.

**Prerequisite:** None.

**Schedule Type:** Laboratory, Lecture, Combined Lecture and Lab

**Contact Hours:** 2 lecture, 3 lab

**Grade Mode:** Standard Letter

### DI 30100 CHALLENGE-BASED INNOVATION 3 Credit Hours

(Repeatable for credit) Challenge-Based Innovation (CBI) is a project and problem-based learning course, where multidisciplinary student teams and their instructors collaborate with faculty researchers, community and industry partners to discover novel solutions for the future of humankind. The projects are an elaborate mixture, proposed by cross-disciplinary faculty teams and derived from using research to tackle messy or complex problems to meet societal, human-driven needs. The multidisciplinary student teams act as catalysts in creating novel solutions to pressing problems.

**Prerequisite:** DI 20100.

**Schedule Type:** Laboratory, Lecture, Combined Lecture and Lab

**Contact Hours:** 2 lecture, 3 lab

**Grade Mode:** Standard Letter

### DI 49095 SPECIAL TOPICS IN DESIGN INNOVATION STUDIO 1-6 Credit Hours

(Repeatable for credit) Analysis and cross-disciplinary problem-solving of significant and current issues in design innovation not covered in existing design innovation courses. This studio course is offered when opportunities and resources permit; the topic is announced when the course is scheduled.

**Prerequisite:** DI 20100.

**Schedule Type:** Studio

**Contact Hours:** 2-6 other

**Grade Mode:** Standard Letter

### DI 49900 DESIGN INNOVATION WORKSHOP 1-4 Credit Hours

This course supports brief, intensive and interactive activities that address a narrowly defined range of problems in which the content is practical and concentrates on the acquisition of specific information and skills related to practices in design innovation. The variable credit format allows for intensive challenges that might occur in short periods, and that it might be focused on a single problem.

**Prerequisite:** DI 20100.

**Schedule Type:** Workshop

**Contact Hours:** 1-4 other

**Grade Mode:** Satisfactory/Unsatisfactory

**DI 49995 SPECIAL TOPICS IN DESIGN INNOVATION 1-3 Credit Hours**  
(Repeatable for credit) Analysis and cross-disciplinary problem-solving of significant and current issues in design innovation not covered in existing design innovation courses. This course is offered when opportunities and resources permit; the topic is announced when the course is scheduled.

**Prerequisite:** DI 20100.

**Schedule Type:** Lecture

**Contact Hours:** 1-3 lecture

**Grade Mode:** Standard Letter

**DI 49999 DESIGN INNOVATION GRAND CHALLENGES STUDIO PROJECT (ELR) 3 Credit Hours**

A cross disciplinary project-based capstone course that collaboratively focuses on a single grand challenge. Challenges range from those identified by Grand Challenges.org, "solving global health and development problems for those most in need" to one of the "Grand Challenges for Engineering", to one from the list regularly updated by the National Science Foundation, to a pressing challenge identified by the faculty. Taught by a multidisciplinary team of primary instructors with input from industry leaders with complementary expertise, the collaborative effort of students, faculty members, industry partners and/or community leaders, focuses on developing robust multi-perspective, actionable solutions considering multiple criteria including but not limited to technical, socio-cultural and economic dimensions. Outcomes range from early designs, to physical prototypes or policy solutions with an understanding of how to take them to a next phase. Travel component may be included.

**Prerequisite:** DI 20100 and DI 30100.

**Schedule Type:** Project or Capstone

**Contact Hours:** 6 other

**Grade Mode:** Standard Letter

**Attributes:** Experiential Learning Requirement

## Honors (HONR)

**HONR 10096 INDIVIDUAL HONORS WORK 1-4 Credit Hours**

(Repeatable for credit) Directed independent study for freshmen in any department.

**Prerequisite:** Special approval of department.

**Schedule Type:** Individual Investigation

**Contact Hours:** 1-4 other

**Grade Mode:** Standard Letter-IP

**HONR 10197 FRESHMAN HONORS COLLOQUIUM I (KCMP) 1-4 Credit Hours**

(Repeatable for credit) Required of all honors freshmen in lieu of College Writing. Stresses exploration, discussion and communication of ideas expressed in works related to theme of colloquium.

**Prerequisite:** Admitted to the Honors College.

**Schedule Type:** Colloquium

**Contact Hours:** 1-4 other

**Grade Mode:** Standard Letter-IP

**Attributes:** Kent Core Composition

**HONR 10297 FRESHMAN HONORS COLLOQUIUM II (KCMP) 1-4 Credit Hours**

(Repeatable for credit) Continuation of HONR 10197.

**Prerequisite:** Admitted to the Honors College.

**Schedule Type:** Colloquium

**Contact Hours:** 1-4 other

**Grade Mode:** Standard Letter-IP

**Attributes:** Kent Core Composition

**HONR 13597 COLLOQUIUM: THE WESTERN IDENTITY (KADL) 3 Credit Hours**

(Repeatable for credit) Focuses on Western and non-Western cultures from a comparative perspective, in order to identify both different and shared values and to see how one's own culture shapes one's perspective, ideology, and values.

**Prerequisite:** Admitted to the Honors College; and special approval.

**Schedule Type:** Colloquium

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Kent Core Additional

**HONR 20096 INDIVIDUAL HONORS WORK 1-4 Credit Hours**

(Repeatable for credit) Directed independent study for sophomores in any department.

**Prerequisite:** Special approval of the department.

**Schedule Type:** Individual Investigation

**Contact Hours:** 1-4 other

**Grade Mode:** Standard Letter-IP

**HONR 20197 SOPHOMORE COLLOQUIUM 1-4 Credit Hours**

(Repeatable for credit) One-semester course or two-semester sequence exploring interdisciplinary ideas and issues related to a single theme, by means of readings, discussion and individual papers and projects.

**Prerequisite:** Admitted to the Honors College.

**Schedule Type:** Colloquium

**Contact Hours:** 1-4 other

**Grade Mode:** Standard Letter-IP

**HONR 20297 SOPHOMORE COLLOQUIUM 1-4 Credit Hours**

(Repeatable for credit) One-semester course or two-semester sequence exploring interdisciplinary ideas and issues related to a single theme, by means of readings, discussion and individual papers and projects.

**Prerequisite:** Admitted to the Honors College.

**Schedule Type:** Colloquium

**Contact Hours:** 1-4 other

**Grade Mode:** Standard Letter-IP

**HONR 30096 INDIVIDUAL HONORS WORK 1-4 Credit Hours**

(Repeatable for credit) Directed independent study for juniors in any department.

**Prerequisite:** Special approval of department.

**Schedule Type:** Individual Investigation

**Contact Hours:** 1-4 other

**Grade Mode:** Standard Letter-IP

**HONR 30197 JUNIOR COLLOQUIUM 1-4 Credit Hours**

(Repeatable for credit) One-semester course or two-semester sequence for juniors or seniors exploring interdisciplinary ideas and issues related to single theme, by means of readings, discussion and individual papers and projects.

**Prerequisite:** Admitted to the Honors College.

**Schedule Type:** Colloquium

**Contact Hours:** 1-4 other

**Grade Mode:** Standard Letter-IP

**HONR 30297 JUNIOR COLLOQUIUM 1-4 Credit Hours**

(Repeatable for credit) One-semester course or two-semester sequence for juniors or seniors exploring interdisciplinary ideas and issues related to single theme, by means of readings, discussion and individual papers and projects.

**Prerequisite:** Admitted to the Honors College.

**Schedule Type:** Colloquium

**Contact Hours:** 1-4 other

**Grade Mode:** Standard Letter-IP

**HONR 40085 SENIOR HONORS PORTFOLIO 1 Credit Hour**

Construction of a senior portfolio, consisting of a collection of artifacts and a reflective essay interpreting the student's growth during the college years.

**Prerequisite:** Senior standing.

**Schedule Type:** Individual Investigation

**Contact Hours:** 1 other

**Grade Mode:** Standard Letter-IP

**HONR 40096 INDIVIDUAL HONORS WORK 1-4 Credit Hours**

(Repeatable for credit) Directed independent study for seniors in any department.

**Prerequisite:** Prior special approval of instructor; and special approval of and preregistration with Honors College.

**Schedule Type:** Individual Investigation

**Contact Hours:** 1-4 other

**Grade Mode:** Standard Letter-IP

**HONR 40099 SENIOR HONORS THESIS/PROJECT (ELR) 1-10 Credit Hours**

(Repeatable for credit) Thesis or creative project.

**Prerequisite:** Special approval of department.

**Schedule Type:** Senior Project/Honors Thesis

**Contact Hours:** 1-10 other

**Grade Mode:** Standard Letter-IP

**Attributes:** Experiential Learning Requirement

**HONR 40197 SENIOR COLLOQUIUM 1-4 Credit Hours**

(Repeatable for credit) One-semester course or two-semester sequence exploring interdisciplinary ideas and issues related to single theme, by means of readings, discussion and individual papers and projects.

**Prerequisite:** Admitted to the Honors College.

**Schedule Type:** Colloquium

**Contact Hours:** 1-4 other

**Grade Mode:** Standard Letter-IP

**HONR 40297 SENIOR COLLOQUIUM 1-4 Credit Hours**

(Repeatable for credit) One-semester course or two-semester sequence exploring interdisciplinary ideas and issues related to single theme, by means of readings, discussion and individual papers and projects.

**Prerequisite:** Admitted to the Honors College.

**Schedule Type:** Colloquium

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter-IP

## University College

### University College

Center for Undergraduate Excellence

Kent Campus

330-672-0980

[www.kent.edu/universitycollege](http://www.kent.edu/universitycollege)

### Academic Advising Office

#### Exploratory Advising Center

169 Center for Undergraduate Excellence

Kent Campus

330-672-3676

[explore@kent.edu](mailto:explore@kent.edu)

[www.kent.edu/exploratory](http://www.kent.edu/exploratory)

## Academic Programs

### Pre-Major

- Exploratory

### Special Program - Non-Degree

- Cooperative Education Program

## National Student Exchange (NSE)

### NSE 10095 NATIONAL STUDENT EXCHANGE (ELR) 0 Credit Hours

(Repeatable for credit) This is not a real academic course but a means of holding out of state students awaiting their transfer back to Kent. For record keeping only.

**Schedule Type:** Lecture

**Contact Hours:** 0 lecture

**Grade Mode:** Transfer

**Attributes:** Experiential Learning Requirement

## University College (UC)

### UC 10002 ADULT STUDENT ORIENTATION 1 Credit Hour

(Equivalent to UC 10097) Course focuses on balancing adult roles and responsibilities with college demands. Students sharpen learning skills and study strategies while making connections with other adult students at Kent State.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 1 lecture

**Grade Mode:** Satisfactory/Unsatisfactory

### UC 10095 SPECIAL TOPICS IN UNIVERSITY COLLEGE 1-3 Credit Hours

(Repeatable for credit) Variable topics course that encourages interdisciplinary study to cover areas not treated adequately in traditional coursework and to make available promptly the new and significant experience of the faculty.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 1-3 lecture

**Grade Mode:** Standard Letter

### UC 10096 INDIVIDUAL INVESTIGATION 1-6 Credit Hours

(Repeatable for a maximum of 6 credit hours) Experiential learning opportunity, working with a faculty member in his or her area of expertise.

**Prerequisite:** None.

**Schedule Type:** Individual Investigation

**Contact Hours:** 1-6 other

**Grade Mode:** Standard Letter-IP

### UC 10097 DESTINATION KENT STATE: FIRST YEAR EXPERIENCE 1 Credit Hour

(Equivalent to UC 10002 or UC 20007) Course assists students in making a successful academic transition to the university through experiential or intellectually engaging discipline-based content. Required of all first-year students. Not required of transfer students with 25 or more credit hours.

**Prerequisite:** None.

**Schedule Type:** Colloquium

**Contact Hours:** 1 other

**Grade Mode:** Standard Letter

**UC 10162 INTRODUCTION TO PROFESSIONAL DEVELOPMENT 1 Credit Hour**

Course exposes students to professional skills and competencies they will need and use in the future. Students begin to develop important career ready competencies. Students learn about the art of networking and relationship building, what it means to be culturally agile, how to succinctly present themselves (elevator pitch and executive summaries), how to use career job sites and resources for career exploration and-or researching companies. Students must have satisfactorily completed UC 10097 before taking this course.

**Prerequisite:** College of business administration major.

**Schedule Type:** Lecture

**Contact Hours:** 1 lecture

**Grade Mode:** Standard Letter

**UC 10177 EXPERIENTIAL LEARNING PLUS-1 CREDIT 1 Credit Hour**

(Repeatable for maximum 2 credits) Course allows students to add experiential learning to any undergraduate course. The course involves applying the knowledge and skills developed in a course to support local initiative through civic engagement. Students consider the knowledge base of the primary course and/or discipline, and how it is applied in real practice. Reflective activities are used to challenge students to consider larger questions and the interdisciplinary nature of complex problems and solutions. This course is not a stand-alone course - it must be appended to a primary course.

**Prerequisite:** Special approval.

**Schedule Type:** Field Experience, Practical Experience, Research

**Contact Hours:** 1 other

**Grade Mode:** Standard Letter

**UC 20007 LIFE BEYOND KSU 1 Credit Hour**

(Equivalent to UC 10097) Equips students with the knowledge and tools critical for entering the professional world through research and application of career-related concepts and activities. Reserved for students who have not successfully completed the Destination Kent State: First Year Experience orientation course.

**Prerequisite:** Junior or senior standing.

**Schedule Type:** Lecture

**Contact Hours:** 1 lecture

**Grade Mode:** Standard Letter

**UC 20008 CAREER CONSTRUCTION 1 Credit Hour**

Course prepares students to increase their self-awareness, while equipping them to navigate a lifetime of meaningful occupational realities. Through experiential activities, discussions and reflective exercises, students gain self-understanding and connect academic opportunities to careers and specializations in career fields. Designed for students who have not yet declared a major, are evaluating a career change or are interested in finding personal meaning and mattering in occupational and life decisions.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 1 lecture

**Grade Mode:** Standard Letter

**UC 20009 CAREER AND LIFE PLANNING: CHANGE, CHANCE AND CHOICE 1 Credit Hour**

Navigating a career and life planning can be complex. Course is designed to equip students with knowledge and skills useful in deciding how to use opportunities to build meaningful futures and how to maintain flexibility and adaptability in the work environment. Designed for students who have not yet declared a major or are contemplating or engaged in life and career exploration or change.

**Prerequisite:** UC 20008.

**Schedule Type:** Lecture

**Contact Hours:** 1 lecture

**Grade Mode:** Standard Letter

**UC 20010 CAREER NAVIGATION: CONSTRUCTING POSSIBILITIES 2 Credit Hours**

Navigating a career and life planning can be complex. Course is designed to equip students with self-awareness, knowledge and skills useful in deciding how to use opportunities to build meaningful futures and how to maintain flexibility and adaptability in the work environment. Students learn how to balance planning with uncertainty and navigate a lifetime of meaningful occupational realities. Through experiential activities, discussions and reflective exercises, students gain self-understanding and connect academic opportunities to careers and specializations in career fields. Designed for students who have not yet declare a major, are interested in finding personal meaning and mattering in occupational and life decisions or are contemplating or engaged in life and career exploration or change.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**UC 20095 SPECIAL TOPICS IN UNIVERSITY COLLEGE 1-3 Credit Hours**

(Repeatable for credit) Variable topics course that encourages interdisciplinary study to cover areas not treated adequately in traditional coursework and to make available promptly the new and significant experience of the faculty.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 1-3 lecture

**Grade Mode:** Standard Letter

**UC 20193 VARIABLE TITLE WORKSHOP IN UNIVERSITY COLLEGE 1-3 Credit Hours**

(Repeatable for credit) Workshop focused on variable topics.

**Prerequisite:** None.

**Schedule Type:** Workshop

**Contact Hours:** 1-3 other

**Grade Mode:** Satisfactory/Unsatisfactory

**UC 20201 DESTINATION KENT STATE STUDENT LEADER TRAINING 2 Credit Hours**

Course prepares students to develop a solid foundation in Destination Kent State programs, Kent State knowledge, leadership and communication skills in order to support the Destination Kent State programs. May include Saturday sessions.

**Prerequisite:** UC 10097.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Satisfactory/Unsatisfactory



**UC 20203 THEORY AND PRACTICE OF PEER TUTORING 1 Credit Hour**

Preparation for tutoring in several academic areas. Emphasis on the student as learner. Introduction to current learning theories. Opportunities provided to adapt learning strategy to particular disciplines. Field experience included.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 1 lecture

**Grade Mode:** Standard Letter

**UC 20277 EXPERIENTIAL LEARNING PLUS-1 CREDIT (ELR) 1 Credit Hour**

(Repeatable for maximum 2 credits) Course allows students to add experiential learning to any undergraduate course. The course involves applying the knowledge and skills developed in a course to support local initiative through civic engagement. Students consider the knowledge base of the primary course and/or discipline, and how it is applied in real practice. Reflective activities are used to challenge students to consider larger questions and the interdisciplinary nature of complex problems and solutions. This course is not a stand-alone course - it must be appended to a primary course.

**Prerequisite:** Special approval.

**Schedule Type:** Field Experience, Practical Experience, Research

**Contact Hours:** 1 other

**Grade Mode:** Standard Letter

**Attributes:** Experiential Learning Requirement

**UC 30202 DESTINATION KENT STATE STUDENT SUCCESS LEADER SEMINAR 2 Credit Hours**

(Repeatable a maximum of 4 credits) Required of all student success leaders who are paired with a faculty member in assisting with UC 10097. Students need to meet the minimum requirements for the college or department in which they serve as a student success leader.

**Prerequisite:** UC 20201.

**Schedule Type:** Seminar

**Contact Hours:** 2 other

**Grade Mode:** Satisfactory/Unsatisfactory

**UC 30377 EXPERIENTIAL LEARNING PLUS-1 CREDIT (ELR) 1 Credit Hour**

(Repeatable for credit) Course allows students to add experiential learning to any undergraduate course. The course involves applying the knowledge and skills developed in a course to support local initiative through civic engagement. Students consider the knowledge base of the primary course and/or discipline, and how it is applied in real practice. Reflective activities are used to challenge students to consider larger questions and the interdisciplinary nature of complex problems and solutions. This course is not a stand-alone course - it must be appended to a primary course.

**Prerequisite:** Special approval.

**Schedule Type:** Field Experience, Practical Experience, Research

**Contact Hours:** 1 other

**Grade Mode:** Standard Letter

**Attributes:** Experiential Learning Requirement

**UC 31000 MCNAIR RESEARCH METHODS I 1 Credit Hour**

Introduction to research methods in the context of the McNair Scholars Program. Topics include selection of a research mentor, research ethics, finding, collecting and citing empirical sources. Registration is restricted to McNair Scholars.

**Prerequisite:** Special approval.

**Schedule Type:** Lecture

**Contact Hours:** 1 lecture

**Grade Mode:** Satisfactory/Unsatisfactory

**UC 31001 MCNAIR RESEARCH METHODS II 1 Credit Hour**

Research methods in the context of the McNair Scholars Program. Topics include developing a question, various design and data collection approaches, writing the research paper. Registration is restricted to McNair Scholars.

**Prerequisite:** Special approval.

**Schedule Type:** Lecture

**Contact Hours:** 1 lecture

**Grade Mode:** Satisfactory/Unsatisfactory

**UC 40010 MCNAIR SCHOLARS SEMINAR I 1 Credit Hour**

McNair Scholars are required to take this course after participation in Summer Research Institute. The course provides training related to the graduate school application process. Registration is restricted to McNair Scholars.

**Prerequisite:** Special approval.

**Schedule Type:** Seminar

**Contact Hours:** 1 lecture

**Grade Mode:** Satisfactory/Unsatisfactory

**UC 40201 DESTINATION KENT STATE STUDENT LEADER TRAINING 3 Credit Hours**

Experienced student leaders for Destination Kent State selected to be trainers are required to take this course. Course provides training and skill development for assisting with training future Destination Kent State student leaders.

**Prerequisite:** UC 30202.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**UC 40202 DESTINATION KENT STATE INTERN SEMINAR 3 Credit Hours**

Experienced student success leaders selected to be student interns are required to take this course. Course extends training and skill development for students who assume responsibility for assisting student success leaders.

**Prerequisite:** UC 30202.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**UC 40477 EXPERIENTIAL LEARNING PLUS-1 CREDIT (ELR) 1 Credit Hour**

(Repeatable for credit) Course allows students to add experiential learning to any undergraduate course. The course involves applying the knowledge and skills developed in a course to support local initiative through civic engagement. Students consider the knowledge base of the primary course and/or discipline, and how it is applied in real practice. Reflective activities are used to challenge students to consider larger questions and the interdisciplinary nature of complex problems and solutions. This course is not a stand-alone course - it must be appended to a primary course.

**Prerequisite:** Special approval.

**Schedule Type:** Field Experience, Practical Experience, Research

**Contact Hours:** 1 other

**Grade Mode:** Standard Letter

**Attributes:** Experiential Learning Requirement

**UC 41010 MCNAIR SCHOLARS SEMINAR II 1 Credit Hour**

McNair Scholars are required to take this course after participation in Summer Research Institute. This course provides training related to the graduate school application process. Registration is restricted to McNair Scholars.

**Prerequisite:** Special approval.

**Schedule Type:** Seminar

**Contact Hours:** 1 lecture

**Grade Mode:** Satisfactory/Unsatisfactory

## Cooperative Education Program

### University College

Department of Career Exploration and Development

261 Schwartz Center

Kent Campus

330-672-2360

career@kent.edu

www.kent.edu/career/co-op

## Description

Students in Kent State University's Cooperative Education Program (co-op) enhance their degree program by relating theory to practice and applying what they have learned in the classroom to real-life workplace scenarios. This process of "learning by doing" increases student motivation and employability after graduation and maximizes student growth and development. Through a co-op experience, students explore career and academic options, test career choices, increase professional skills and earn money to contribute to educational expenses. Cooperative education experiences are highly desired, selective and in the student's chosen field.

All students participating in a co-op experience must register for COOP 20092 (non-credit, offered through University College) and pay the co-op fee. Enrollment in the course is restricted by special approval, and students may only register after submission and approval of all application forms. Enrollment in the course will ensure the student is designated and reported as a full-time student and permit the student to have access to all student services and resources during the co-op semester. Students participating in a cooperative education course do not earn credit hours the semester away. As a result, students are not eligible to receive federal or state grants, student loans or institutional scholarships. However, students will be reported to their federal loan

services as enrolled full-time, allowing for student loans to remain in the in-school deferment status and therefore not enter repayment.

### Fully Offered At:

- Ashtabula
- East Liverpool
- Geauga
- Kent
- Salem
- Stark
- Trumbull
- Tuscarawas
- Twinsburg Academic Center

## Admission Requirements

- Students must have one semester as a degree-seeking student at Kent State prior to their first co-op rotation.
- Students must be enrolled as a half- or full-time student (minimum 6 credit hours) in the semester prior to enrollment in the co-op education program.
- Students must have earned a minimum 2.000 overall GPA at the time of their co-op application.
- Students must have no holds on their student's record from any source (financial, academic, conduct).
- Cooperative position must be approved and relevant to students' career direction.
- Students must have received a completed grade and have resolved any outstanding non-completed grades for previous co-op rotations.
- International students must receive work authorization prior to enrolling in each co-op rotation.

The University College will work with the student's college to assess all applicants holistically, considering their academic progress, related experience, academic and extracurricular activities, among others, to evaluate the student's likelihood of success in the program.

## Exploratory Pre-Major

### University College

Exploratory Advising Center

169 Center for Undergraduate Excellence

Kent Campus

330-672-3676

explore@kent.edu

www.kent.edu/exploratory

## Description

The Exploratory pre-major affords a tremendous opportunity for students to discover, create, and learn about themselves, majors, and careers. Students benefit from the guidance, advising and support offered in the Exploratory Advising Center. Beginning in a student's first semester, academic advisors assist students through their exploration process with a guided plan.

The Exploratory pre-major does not lead to a degree. Students must declare a degree major by the time they have earned 45 credit hours at Kent State University.

The Exploratory pre-major comprises the following interest areas.

- **Aeronautics, Applied Engineering and Technology.** Are you curious about how things work? Are you a great problem solver, have a flare for detail and organizing and an interest in green technologies that can improve the quality of life for people? Maybe you enjoy using technology to get things done or to solve problems when they arise, or you spend time playing flight simulation video games. If so, you might wish to consider careers in aviation, emerging technologies, production or manufacturing and sustainability.
  - **Biological Sciences, Health and Wellness.** Are you committed to improving the health and well-being of others? Do you like to study human behavior or want to pursue a career in nursing, nutrition, speech pathology and audiology, counseling or other health-related fields? You may want to consider a major in the area of biological sciences, health and wellness where you will learn to use the knowledge and techniques of biological and biomedical science as well as the knowledge of the helping professions to promote the maintenance of health and the prevention of illness.
  - **Business.** Are you a problem solver and good communicator? Do you like to think strategically and lead others? You may find that a major in the area of business is right for you. Learn to analyze business problems through the development of skills in accounting, finance, economics and information systems and gain an understanding of real world business problems through case studies and simulations.
  - **Communications, Journalism and Media.** If you can imagine yourself writing for a major news organization, producing television shows and movies, providing corporate training and development, designing political or health campaigns, working as a social media manager, creating advertising or public relations campaigns or working as a speech writer for CEOs or political leaders, majors in this field will appeal to you. Opportunities spanning multiple industries await you in TV, radio, film, print or electronic media, corporate communications, international business and diplomacy. Learn different aspects of communication and information theory, research, use and practice while engaging in scholarly investigations and practical applications of the elements and means of creating, managing, using and evaluating messages.
  - **Computers, Mathematics and Information Sciences.** Can you easily solve a Rubik's cube or disentanglement puzzle, figure out logic teasers or optical illusions and decrypt secret message codes? These games of strategy are good indicators that your problem-solving and critical thinking skills could be applied to the study of information and computation, as well as the new area of digital sciences. Understand the properties, uses and impact of the programs used to implement software and use that understanding to create new programs or improve existing ones.
  - **Design.** Do you enjoy the process of communicating through visual means – using illustration, photography, motion graphics or the Internet to express a concept or solve a problem? Are you intrigued by the use of lights, stage props and sound in theatre and dance productions to create unique environments? Or perhaps the environment you are interested in is one of residential and commercial spaces – the lighting, interior materials and color, signage and graphics or the very structure and form of a building. Are you admired for your sense of fashion and have an ability and interest in designing and constructing your concepts? A wide range of academic programs in design provide students with an opportunity to merge a creative life with a profession and to work individually, collaboratively or within an organization to bring value and beauty to our global community.
  - **Education and Teaching.** Can you envision yourself shaping young minds and preparing them for a successful future? Do those who know you well describe you as nurturing, patient, organized, a multi-tasker good at explaining things and somewhat conventional in your views? If these adjectives resonate with you, then you'll probably find a rewarding career as an educator. For those interested in advanced degrees in schools, schooling, education in non-school settings and leadership positions, there are opportunities to add endorsements, licenses or degrees to strengthen knowledge in teaching, learning, administration and leadership in a variety of disciplines.
  - **Government, Public Policy and Justice.** Are you able to resolve disputes? Are you committed to the pursuit of truth? If you are also a detailed problem solver, articulate communicator, and passionate about righting wrongs, you should explore majors in this area. Study the action, regulatory measures, laws, social service agency engagement, social justice and funding priorities developed by government, agencies or representatives, and use qualitative and quantitative methods to understand and assess their impact.
  - **Human Services and Social Sciences.** Do you want to make a difference in the lives of others? As long as you are resourceful, committed, empathic and empowering, you can help to change the world. Start living out your calling by providing a voice for the people who need it most.
  - **Languages, Literature and Culture.** Have you wondered about people and their roots and history? Do you enjoy languages? Study the creation, organization and use of human knowledge, belief and behavior. Investigate how the development of symbolic languages and social learning have impacted shared attitudes, values, goals and practices associated with human institutions, organizations and groups.
  - **Physical Sciences and the Environment.** If you are intrigued by the natural world and its sustainability, you may have happened upon your ideal area of study. You should be highly inquisitive, detail oriented, analytical and adventurous. Or, you may choose to prepare for scientific careers in the fascinating world of physical science, which uses experimental and quantitative methods to study, model and understand natural and physical phenomena.
  - **Sport, Recreation and Hospitality.** Do you want to be in the business of playing? Your competitive, persistent nature will serve you well on the athletic field, as well as in sports management or marketing/promotion. You may also consider the hospitality industry and event planning or community-based park and wellness facilities. The ability to plan activities, motivate and involve participants is critical.
  - **Visual and Performing Arts.** Do you find it exciting to express your ideas and emotions through art, music or dance? Are you intrigued by the process of staging productions? Do you enjoy studying the history of visual and performing arts? If you are disciplined, energetic and drawn to challenging artistic environments that demand your best, then a major in the visual and performing arts could be the right choice for you. Study at the graduate level fosters an exciting intersection between professional training and academic excellence where you are encouraged to create artistic projects that combine theory, history, criticism, pedagogy and interdisciplinary studies.
- To assist students in making informed major choices by the time they reach 45 credit hours, all Exploratory students participate in the

Exploration Plan. There are six main components of the Exploration Plan that students participate. Students will:

1. Select one of **13 areas of interest** to begin exploring. This is the first step and will be completed before the student's first semester.
2. Create a **Major Action Plan** using the results of a career readiness inventory and continuously update the plan until a major is declared.
3. Engage in the **First Year Experience** course (UC 10097), which will focus on the transition to college and utilizes a curriculum developed specifically for exploratory students, including career exploration, developing an awareness of diverse perspectives, learning about personality preferences and much more.
4. Enroll in **Coursework with Peers**, providing students with the opportunity to network with fellow peers and create study groups. Some of the courses include experiential learning components, which promote academic relevance, meaning and an understanding of real-world issues.
5. Enroll in **Career Navigation** in the student's second semester. In this course, students explore themselves, explore careers, make connections and set career-related goals. As a bonus, if students are part of EXCEL, they will take this course with other EXCEL students.
6. Participate in the **EXCEL** (EXplore, CAREers, Education, Leadership) Learning Community. EXCEL is designed to assist with major selection by guiding the student through career, education and leadership exploration. EXCEL is housed in Lake Hall for students living on campus; however, Honors College students living in honors housing and students who commute may also join in EXCEL.

Each Exploratory student is assigned an academic advisor who monitors academic progress and assists the student in choosing a degree program. Academic advisors also encourage students to take advantage of specialized advising, workshops and other university resources in developing career goals and making informed decisions. Exploratory academic advisors are housed in the Exploratory Advising Center; students have a minimum of one required meeting with an advisor each semester.

### Fully Offered At:

- Ashtabula Campus
- East Liverpool Campus
- Geauga Campus
- Kent Campus
- Salem Campus
- Stark Campus
- Trumbull Campus
- Tuscarawas Campus

The university affirmatively strives to provide educational opportunities and access to students with varied backgrounds, those with special talents and adult students who graduated from high school three or more years ago.

**Freshman Students on the Kent Campus:** The freshman admission policy on the Kent Campus is selective. Admission decisions are based upon the following: cumulative grade point average, ACT and/or SAT scores, strength of high school college preparatory curriculum and grade trends. The Admissions Office at the Kent Campus may defer the admission of students who do not meet admissions criteria but who demonstrate areas of promise for successful college study. Deferred applicants may begin their college coursework at one of seven regional campuses of Kent State University. For more information on admissions,

including additional requirements for some academic programs, visit the admissions website for new freshmen.

**Freshman Students on the Regional Campuses:** Kent State campuses at Ashtabula, East Liverpool, Geauga, Salem, Stark, Trumbull and Tuscarawas, as well as the Regional Academic Center in Twinsburg, have open enrollment admission for students who hold a high school diploma, GED or equivalent.

**English Language Proficiency Requirements for International Students:** All international students must provide proof of English language proficiency (unless they meet specific exceptions) by earning a minimum 525 TOEFL score (71 on the Internet-based version), minimum 75 MELAB score, minimum 6.0 IELTS score or minimum 48 PTE score, or by completing the ESL level 112 Intensive Program. For more information on international admission, visit the Office of Global Education's admission website.

**Transfer, Transitioning and Former Students:** For more information about admission criteria for transfer, transitioning and former students, please visit the admissions website.

## Roadmap

This roadmap is a recommended semester-by-semester plan of study for this major. However, courses designated as critical (!) must be completed in the semester listed to ensure a timely graduation.

Course	Title	Credits
<b>Semester One</b>		
! UC 10097	DESTINATION KENT STATE: FIRST YEAR EXPERIENCE	1
	Kent Core Requirement	3
	Kent Core Requirement	3
	Kent Core Requirement	3
	Kent Core Requirement	3
	Kent Core Requirement	3
Credit Hours		16
<b>Semester Two</b>		
! UC 20010	CAREER NAVIGATION: CONSTRUCTING POSSIBILITIES	2
	Kent Core Requirement	3
	Kent Core Requirement	3
	Kent Core Requirement	3
	Kent Core Requirement	3
Credit Hours		14
<b>Semester Three</b>		
	Kent Core Requirement	3
	Kent Core Requirement	3
	Kent Core Requirement	3
	Elective or Foreign Language	6
Credit Hours		15
Minimum Total Credit Hours:		45



# ADMISSION INFORMATION

Detailed information and admission applications can be found on the Admission's website.

## Adult Student

Undergraduate students who are 21 years or older and will have been graduated from high school for three or more years at the time of their first college enrollment are considered freshman adult students. Other students classified as adult students fit these criteria and also have earned a General Education Development (GED) credential and whose high school class will have been graduated for three years or more at the time of their first enrollment.

Adult students who have earned previous credits at any post-secondary institution are considered transfer students. Official transcripts from each school attended must be provided for admission consideration. For adult students who have completed 12 or more semester hours of college credit, a high school transcript is not required. Refer to the policy on Transfer Undergraduate Student in the University Catalog for more information.

Prospective and admitted adults students should contact the Center for Adult and Veteran Services for counseling and help with procedures.

## Former Undergraduate Student

Kent State University undergraduate students who withdrew from or left the university in good standing, or who left on academic probation and in the interim have not attended another post-secondary institution, do not need to apply for readmission. These students should contact the Office of the University Registrar for current enrollment and registration procedures. Students who have attended another institution since leaving Kent State will be required to apply for admission as transfer students, submit official transcripts and pay the non-refundable application fee. The Center for Adult and Veteran Services provides general advising, information, referrals and assistance for undergraduate students who meet the "adult student" criteria.

For information concerning former undergraduate students who have been dismissed from the university, refer to the policy for Dismissal, Appeal and Reinstatement in the University Catalog.

## Former Graduate Student

Kent State University graduate students who withdrew from or left the university in good standing will be required to re-apply for admission and pay the non-refundable application fee. Refer to the policy for Enrollment - Graduate in the University Catalog for more information.

For information concerning former graduate students who have been dismissed from the university, refer to the policy for Academic Standing - Graduate Student in the University Catalog.

## Graduate Student

Applicants are evaluated on the basis of both past academic performance and potential for continued achievement. In all cases, a combination of quantitative and qualitative measures is assessed. Credentials indicating an ability to succeed in graduate-level work may include overall and major graduate point average (GPA), caliber of prior institutions attended, progression of academic performance over time, standardized test scores, written communication skills,

recommendations from faculty, relevant work experience, indices of leadership, prior research experience and correspondence between research interests and available faculty expertise.

Refer to the end of this section for admission procedures for the College of Podiatric Medicine.

## Minimum Qualifications For Admission

1. A bachelor's degree from an accredited college or university. If applicant attended a non-U.S. college or university, the degree must have been received from a recognized institution where the requirements for the bachelor's degree are similar to those at Kent State University, as determined by Kent State's Office of Global Education.
2. A total undergraduate grade point average (GPA) of 3.000 on a 4.000 point scale. For graduate-level coursework, a minimum 3.000 GPA is expected. Some programs may require a higher minimum undergraduate or graduate GPA.

Applicants who do not meet the minimum university and/or program requirements may be considered for conditional admission. Admission in such cases will depend heavily on other indices of the student's ability to handle graduate-level work. These might include strong performance on standardized tests, GPA in the major and/or other experiences that are clearly indicative of strong academic ability.

## Conditional Admission

The purpose of conditional admission is to provide applicants with an opportunity to compensate for any deficiencies and to demonstrate their ability to satisfactorily complete graduate level work. Conditional admission is normally assigned for one or more of the following reasons:

- **Applicant does not meet minimum university/program requirements.** The conditions are determined by the applicant's program/college. Normally, conditions will include the successful completion of specified graduate coursework and/or the achievement of a specified first semester GPA. A statement of the conditions of admission, as well as the rationale for conditional admission, will be sent to the student in writing by the academic college. Monitoring the student's success in meeting specified conditions is the responsibility of the program.
- **Applicant does not have expected academic background in the field of proposed graduate study.** The conditions are determined by the applicant's program/college. Normally, the conditions will include the successful completion of specified undergraduate coursework. A statement of the conditions of admission, as well as the rationale for conditional admission, will be sent to the student in writing by the academic college. Monitoring the student's success in meeting specified conditions is the responsibility of the program.
- **Applicant does not meet minimum English proficiency requirements.** A statement of the conditions of admission will be included in the Letter of Admission. Conditions include the successful completion of English as a Second Language (ESL) courses and proof of English proficiency. Enrollment in ESL courses does not assure admission to an academic program. ESL faculty members are responsible for monitoring the student's conditions.
- **Applicant does not have final transcripts and/or degree document(s).** The required document(s) will be listed in the Letter of Admission, and must be submitted by the first day of the first semester of enrollment. The Division of Graduate Studies is responsible for monitoring receipt of the document(s). A registration hold will be placed on the student's record during the second week of



the student's first semester. The hold will inhibit further course registration if the document(s) have not been received by Graduate Studies by that time.

## Required Application Materials For Admission

- Online Application and non-refundable application fee.
- Copy of official transcripts from each college or university attended in which 8 or more semester credit hours were attempted, regardless of whether or not a degree was earned. Applicants must submit transcripts for both undergraduate and graduate coursework, including undergraduate credits earned while in high school. Scanned copies of official transcripts may be uploaded as PDF files in the electronic admission application.
  - Applicants previously enrolled at Kent State do not need to submit the Kent State transcript. The Division of Graduate Studies will obtain the Kent State transcripts on the applicants behalf, as long as Kent State is listed as a previous institution on the admission application. Applicants must still submit transcripts for all post-secondary work done elsewhere.
  - Students offered admission to Kent State University will be required to submit official transcripts from each college or university attended where academic credit was attempted. The offer of admission will be considered 'Provisional' until all official transcripts are received by Kent State University. An 'Unconditional' or 'Conditional' offer of admission will be awarded upon receipt of official transcripts, per the admitting program's recommendation.
  - The Division of Graduate Studies is responsible for monitoring receipt of official transcripts. If official transcripts are not received by the Division of Graduate Studies by the second week of the student's first semester of attendance, a registration hold will be placed on the student's records. The student will not be able to register or adjust his/her course schedule until all official transcripts have been received.
  - Any significant discrepancies found between student-provided unofficial transcripts and official transcripts will be **grounds for dismissal**.
- Letters of recommendation. Most programs require three letters, although some programs require two. The letters should be completed by persons who are familiar with the applicant's educational goals and professional and/or academic ability.
- Proof of English proficiency. All applicants whose education has been primarily outside the United States must have objective evidence of proficiency in the English language. Exceptions may be granted for applicants who have completed their education in a primarily English speaking country/territory. Refer to individual program admission criteria in the University Catalog and for a list of appropriate tests, minimum test score requirements and applicable exceptions.
- Additional materials as required by the graduate program to which the individual is applying.

Once received, all application materials become the property of Kent State University and will not be returned. Application materials are kept for a period of one year from the date the completed online application form is submitted. After that time, materials will be destroyed. Applicants interested in admission after one year will need to reapply and submit a new application fee.

## Multiple Applications

If an applicant chooses to apply to more than one graduate program, the applicant must submit a separate application and application fee for each program. Contact the Division of Graduate Studies to have application materials applied to more than one application. Applicants may be required to submit additional materials. Refer to individual programs in the University Catalog for required application materials.

## Deadlines For Admission

For timely consideration of the application, it is recommended applicants submit a complete application at least one month before the start of the semester of first coursework. Some programs may have much earlier deadlines. Refer to individual programs in the University Catalog for their deadlines.

## Application Procedures

### Domestic Applicants

Domestic applications are received and processed by the Division of Graduate Studies. All transcripts, letters of recommendation, goal/purpose statements, vita/résumés and other required materials as specified by the program must be sent to gradapps@kent.edu or Division of Graduate Studies, Office of Graduate Admissions, 650 Hilltop Drive, Kent State University, Kent, OH 44242.

After completing the online application form, applicants will receive notification via e-mail that the application was received. Applicants can also view the status of their submitted application using the Login ID and PIN that they created to complete the application. The Division of Graduate Studies will send applicants periodic e-mail reminders regarding any required application materials that have yet to be received.

Once all required application materials are received, the completed application form and materials are electronically forwarded to the respective program for review. The program's review committee then forwards its recommendation for admission or denial to the academic college dean. The dean's final admission decision is sent to the Division of Graduate Studies where it is documented on the applicant's record. The official admission decision letter is sent by the dean of graduate studies. Individual programs may send additional information to applicants, such as information about graduate assistantships.

### International Applicants

International applications are received and processed by Kent State's Office of Global Education. Applicants who require an F-1 or J-1 student visa must:

1. Meet the visa eligibility requirements.
2. Verify that they have the financial resources to cover their expenses during graduate study at Kent State University. The Financial Information Worksheet for International Students is available through the Office of Global Education. If a governmental entity is funding the student, an official letter regarding the funding must be submitted along with the Financial Information Worksheet for International Students.

The Financial Information Worksheet for International Students, proof of English proficiency and all transcripts, letters of recommendation, goal/purpose statements, vita/résumés and other required materials as specified by the graduate program must be sent to the Office of Global Education, Kent State University, 106 Van Campen Hall, 625 Loop Road, Kent, OH 44242, USA.

After completing the online application form, international applications will receive notification via e-mail that it was received. Applicants can also view the status of their submitted application using the Login ID and PIN that they created to complete the application. The Division of Graduate Studies will send applicants periodic e-mail reminders regarding any required application materials that have yet to be received.

Once all required application materials are received, the completed application form and materials are electronically forwarded to the respective program for review. The program's review committee then forwards its recommendation for admission or denial to the academic college dean. The dean's final admission decision is sent to the Division of Graduate Studies where it is documented on the applicant's record. The official admission decision letter is sent by the dean of graduate studies. Individual programs may send additional information to applicants, such as information about graduate assistantship. If accepted for admission, the Office of Global Education will issue the form I-20 or DS-2019.

International students may enroll at Kent State University only if they have been admitted to a degree program, a certificate program or the post-baccalaureate teacher education program. The form I-20 (required to obtain F-1 immigration status) or the form DS-2019 (required to obtain J-1 immigration status) is issued only after the application is complete, all documents are properly verified, the applicant is admitted to a degree program and proof of funding is received.

## Fraudulent Records

Any transcripts, certificates, translations or examination results that appear irregular will be verified with the appropriate school or examination authorities, and the application process will be delayed until verification is received. If it is determined that an applicant has submitted false records or omitted information about previous school attendance, his/her application will be denied, and legal action may be taken.

## Change Of Application Term

Applications and application materials are valid for one year only. Applicants may change the term of their application to a later term within one calendar year from the date the completed online application form was submitted. To be considered for admission during a different term, contact the Division of Graduate Studies to have the term of application changed. Some programs admit only one term per year. Refer to individual programs in the University Catalog for the term(s) during which they will consider admission. Applicants interested in admission after one year will need to re-apply and submit a new application fee.

## Defer Enrollment

Admitted students are expected to enroll in and attend courses during the term of their admission. Students may defer the term of enrollment to another term within one calendar year from the term of admission. Initial enrollment beyond one year is not permitted. To defer enrollment to a later term, contact the Division of Graduate Studies. Students who have not enrolled in and attended courses within one calendar year of admission will need to re-apply and submit a new application fee.

## College Of Podiatric Medicine

Kent State University's College of Podiatric Medicine adheres to the admissions policies set forth by the American Podiatric Medical Association. For the college's admissions procedures and requirements, visit the College of Podiatric Medicine website. Applicants to the Doctor

of Podiatric Medicine degree will need to apply through the American Association of Colleges of Podiatric Medicine Application Service.

## Guest Student

Admission as a guest student enables students to take a limited number of courses for credit. To be admitted in this category, undergraduate students must have graduated from high school, obtained a GED certificate or achieved the equivalent; and graduate students must have earned a bachelor's degree. Guest students typically take courses for job or personal achievement. Students pursuing a degree at another institution may apply as a guest student.

Guest students may remain in this status until no more than 18 semester hours at the undergraduate level or 6 semester hours at the graduate level of Kent State University credit have been attempted. Students cannot earn a degree or certificate in this admission status. Guest students who wish to pursue a degree or certificate program or continue after 18 semester credit hours (undergraduate) or 6 semester credit hours (graduate) have been attempted must apply for regular admission. Credit hours taken in this status may apply to a degree or certificate program with the approval of the college dean.

Guest students must meet all prerequisites for courses (or obtain permission of the instructor). Graduate guest students must also obtain approval from the corresponding program coordinator.

Individuals who have been denied admission to or are under dismissal from Kent State are not eligible for guest student status. Guest students are not eligible for financial aid.

## Home-Schooled Student

Kent State welcomes applications from home-schooled students. Students who are home-schooled may submit an equivalent diploma through a successful General Educational Development (GED) examination and an ACT/SAT score, or submit the following information for admission consideration:

1. Written verification from the appropriate school district that the student has been excused from compulsory attendance for home education.
2. ACT or SAT score (requirement may be waived by a regional campus that does not require scores for admission)
3. A portfolio of the student's work reflecting all secondary coursework completed.

Students should complete a program of study that covers the material in the full college preparatory program recommended by the Ohio State Board of Education. Non-Ohio students should submit appropriate supporting documents as required by their home state. Please contact the Office of Admissions for further details.

## Non-Degree Student

Admission as a non-degree student enables students to take a limited number of courses for credit (either full time or part time). Students in this status are not seeking a degree, but may wish to earn a certificate or take courses for job achievement, personal enrichment, intellectual curiosity or other personal reasons. Students cannot earn a degree in the non-degree status.

Non-degree students must meet all prerequisites for courses (or obtain permission of the instructor). All fees, deadlines and performance standards for degree students apply to non-degree students.

## Undergraduate Non-Degree Student

Application for undergraduate non-degree status should be made through the Office of Admissions. A non-refundable application fee is required. Admission is based on the same criteria detailed in the University Catalog for undergraduate or transfer students, whichever is appropriate.

Undergraduate non-degree students may remain in this special status for one academic year or until a maximum of 45 semester credit hours is earned. Should non-degree students wish to pursue a degree, they may, prior to or upon earning 45 semester credit hours, apply to any undergraduate division of the university. Admission to a degree program, however, is based upon the admissions requirements established by each academic department or school.

## Graduate Non-Degree Student

Application for graduate non-degree student status should be made through the Division of Graduate Studies. Students who plan to pursue a graduate certificate program must apply as a non-degree student, unless they are already in a concurrent degree program. Admission is based on the same criteria detailed in the Graduate Student policy in the University Catalog.

Graduate non-degree students must register for coursework within one year after the admission date. Admission of students who do not register within one year will be inactivated. Reapplication must be made if students desire to register for coursework at this time. Once registered, graduate non-degree students may continue to take courses for six years. Six years after the first registration, non-degree students will be inactivated and must reapply for admission if continued registration in graduate coursework at Kent State University is desired. Anyone who has been denied admission to graduate studies, or is under dismissal from the university, is not eligible for graduate non-degree student status.

Graduate non-degree students who wish to pursue a degree must apply for admission to the degree program. A maximum of 12 semester credit hours taken as a non-degree student may be petitioned to satisfy requirements of a degree program. A petition for transfer of credit must receive approval of the department or school and the college dean. Note that some departments and schools will not accept any credit hours for transfer.

In addition to meeting all prerequisites for courses (or obtaining permission of the instructor), graduate non-degree students must obtain approval from the corresponding graduate program coordinator to register for graduate courses. Students may not transfer in credit earned at another university while in non-degree status.

## Non-Traditional Master's Degree Student

In rare instances, persons who have not completed a baccalaureate will be considered for admission to the appropriate graduate unit due to unusual and exemplary experiential learning.

Such applicants may apply for admission by presenting for departmental consideration a curricular plan encompassing undergraduate and graduate coursework to achieve a liberal educational background and professional graduate degree and three letters of recommendation attesting to their potential for graduate study. Upon departmental

recommendation and the approval of the college dean, applicants will be admitted to undertake graduate work.

Upon successful completion of the curricular plan and the particular master's degree requirements, the students will be awarded the master's degree.

## Post-Undergraduate Student

Those who have received a bachelor's degree from an accredited college or university other than Kent State University and who wish to take undergraduate courses at Kent State may apply as post-undergraduate students. Kent State graduates who have taken coursework elsewhere since leaving Kent State are also considered post-undergraduates. Baccalaureate graduates of Kent State University who have not attempted subsequent college work do not need to reapply to the university but do need to declare their intent to the Office of the University Registrar. Typically, post-undergraduate students take undergraduate courses to pursue a certificate or an additional baccalaureate, to prepare for graduate school or to enrich themselves personally or professionally.

A post-undergraduate application is available online on the Admissions website. Kent State requires a non-refundable application fee and official transcripts from all colleges or universities attended.

## Transient Student

Students pursuing a degree at another institution may apply as transient students to Kent State. Such students must be in good standing. Transient undergraduate students must possess a minimum 2.000 GPA (on a scale of 4.000) to be eligible for admission. The transient permission form must be certified in writing by the registrar or college dean of the institution where the students are enrolled. Graduate students may obtain a Graduate Transient Certification of Good Standing form on the Division of Graduate Studies website.

Transient status is for one semester only. Students wishing to attend more than one semester must reapply. Returning transient students must be in good academic standing at Kent State. A non-refundable transient student fee will be assessed for each transient admission. An ID card may be obtained through the FLASHcard Office in the Kent Student Center.

Kent State undergraduate students wishing for take coursework at another institution should refer to the policy on Transfer of Undergraduate Credit in the University Catalog.

## Transient International Visiting Graduate Students

Students who are in good standing in a graduate degree program at a university abroad may be admitted as transient students at Kent State University to take coursework that may apply to their degree program.

Steps for approval:

1. Complete the International Transient Certification of Good Standing form, which will be processed through the Office of Global Education, 106 Van Campen Hall.
2. Submit a request letter from the advisor at the home institution certifying that the student is in good standing.
3. Submit a letter of acceptance from a Kent State faculty member.
4. Receive approval by the department/school graduate program committee and by the college dean.

International transient students are allowed to work using Kent State facilities for maximum 12 months. Students may also register for research hours or for regular courses not to exceed a total of 12 credit hours over the visiting period. Tuition will be paid by students' home institution or by a Kent State grant. Students will be identified as full time.

## Undergraduate Student

Students desiring admission to an undergraduate program should submit the appropriate application materials to the Office of Admissions. Students should arrange to have all necessary high school and college transcripts sent directly to the Office of Admissions from each institution previously attended. All credentials submitted for admission become the property of the university and are not returnable or transferable. The university reserves the right to change, without notice, any admissions procedures described in the University Catalog.

### Freshmen Students

Students who have not attended any other educational institution after graduating from high school should apply to be admitted as freshmen.

### Application Procedures

Prospective freshman students can apply by submitting an electronic application, application fee and required academic credentials to the Office of Admissions. Students can submit an electronic application on the Office of Admissions website.

The Office of Admissions must receive a non-refundable application fee and a high school transcript before processing the application. A personal interview is not required for admission; however, applicants are encouraged to arrange both an interview with an admissions counselor and a campus visit by contacting the Office of Admissions.

### Required Credentials

Freshmen entering Kent State must submit a high school transcript and American College Test (ACT) or Scholastic Assessment Test (SAT) scores. Students are excused from this test score requirement only if they have been graduated from high school for three or more years or if they are 21 years or older at the time of their first enrollment. These test scores are essential in determining students' admission status and academic aptitudes; assisting in academic advising; and helping to determine scholarship eligibility.

ACT or SAT scores should be reported to Kent State University directly from the testing agency. Students should use the following ACT codes based on the campus to which they plan to be admitted:

- Ashtabula Campus (3773)
- East Liverpool Campus (3225)
- Geauga Campus (3224)
- Kent Campus (3284/SAT 1367)
- Salem Campus (3354)
- Stark Campus (3226),
- Trumbull Campus (3343),
- Tuscarawas Campus (3361)

A final high school transcript verifying graduation or a GED certificate/score report is required for both enrollment and financial aid at Kent State University.

### Admission Requirements at the Kent Campus

Freshman admission to the Kent Campus is selective. Admission decisions are based upon the following: cumulative grade point

average (GPA), ACT and/or SAT scores, strength of high school college preparatory curriculum and grade trends.

The university affirmatively strives to provide educational opportunities and access to students with varied backgrounds, those with special talents and adult students who graduated from high school three or more years ago.

Students who not offered admission to the Kent Campus may request that the Admissions Office forward their application for consideration at one of the seven regional campuses of Kent State University.

### Admission Requirements at the Regional Campuses

Admission to the Regional Campuses is handled through the Office of Admissions at any of the seven regional campuses. Admission is open to anyone with a high school diploma or its equivalent. Part-time early admission opportunities are available for qualified high school students in consultation with an advisor. In programs with special admission requirements, admission decisions and judgments are made by the director of the program following normal faculty consultative procedures, and take into account factors such as life experience, level of motivation and concern for under-represented groups in the program, as well as such indicators as GPA or ACT score. Each regional campus has staff members available to discuss admissions, financial aid opportunities and programs with prospective students.

Registration dates, times, procedures and access methods are similar to those of the Kent Campus. Registration information at a particular campus can be obtained from that campus. Because the seven regional campuses and the Kent Campus comprise one university system, access and mobility among the campuses is encouraged and facilitated. Even so, there are some differences between the Kent Campus and the regional campuses in freshman and transfer admission requirements.

### Kent Campus Referrals

Freshman admission eligibility at the Kent Campus is based upon an applicant's cumulative high school GPA and, in some cases, standardized test scores and the college preparatory curriculum. Students not meeting the freshman admission criteria for the Kent Campus who wish to enter the Kent State University system must enroll for at least one semester at a regional campus. Enrollment at the regional campuses permits students to take advantage of smaller class sizes, more individualized advising services and a wider range of developmental programs.

For the deferred freshman or transfer student who enrolls at a regional campus to obtain the best possible foundation for academic success, the student must complete the following minimum academic achievements before enrolling at the Kent Campus:

1. Successfully complete all developmental coursework as prescribed by placement testing and an academic advisor.
2. Successfully complete 12 credit hours of college-level coursework (not including any coursework considered developmental).
3. Achieve a minimum 2.000 overall GPA.

Students are strongly encouraged to work closely with their academic advisor in planning for the transition to the Kent Campus.

### Selective Admissions

Freshmen must meet specific requirements to enter several academic programs and academic units at Kent State. Individual requirements for these programs are listed under the respective departments in the University Catalog. Students interested in these special admission areas should apply one year prior to the date of anticipated enrollment.



Even though some of these programs do not have an early application deadline for fall semester, students who apply early will receive priority consideration. Specific questions about these areas can be directed to the Office of Admissions, colleges or the individual departments or schools.

Admission to Kent State University is valid only for the specific term to which students are first admitted. Students who do not enroll in the term to which they were admitted must submit a new application. The Office of Admissions will then determine the students' admissibility for that term.

### **Destination Kent State: Advising and Registration**

For six weeks, beginning in June, admitted Kent Campus freshmen for the fall semester and their parents are invited to campus for a one-and-a-half day orientation to Kent State. The primary goals of Destination Kent State: Advising and Registration are to acquaint students and parents with university programs and services, provide an individual advising session for each student and register students for fall classes. New fall-semester freshmen are invited to campus to participate in this program. New spring-semester freshmen are invited for academic advising and registration for spring classes in November and January.

### **Transfer Students**

Persons who have attended any other educational institution after graduating from high school must apply as undergraduate transfer students.

### **Application Procedures**

Prospective transfer students are encouraged to apply before their junior year in college. Students applying just prior to, or after, the junior year must declare a major and a minor (if required) and should consult with the appropriate academic division concerning the suitability of their preparation for their major.

### **Required Credentials**

To complete their application, transfer students must submit the following to the Office of Admissions:

- A transfer application form and a non-refundable application fee.
- An official transcript from each post-secondary institution attended. These transcripts must be sent directly from the previous institutions to the Office of Admissions, Kent State University, P.O. Box 5190, Kent, OH 44242-0001.
- A final high school transcript from the following students:
  - Applicants with fewer than 12 credit hours of non-remedial/developmental coursework earned at other colleges or universities.
  - Applicants who, for special reasons, are asked by the Office of Admissions to submit a high school transcript.
- Official results of the ACT or the SAT. Test results are not required of the following applicants:
  - Are 21 years or older at the time of their first enrollment.
  - Have successfully completed 12 or more credit hours of non-remedial/-developmental college coursework.
  - Have graduated from high school three or more years prior to application.
- Verification of high school graduation for financial aid purposes.

An interview may, in some cases, also be required by the Office of Admissions.

It is required that applicants list on the application each institution attended after high school, whether or not credit was earned, and forward separate transcripts from each of these institutions. Questions regarding these requirements should be directed to the Office of Admissions prior to application. Failure to comply with these requirements represents falsification of the application and will result in appropriate disciplinary action.

### **Admission Requirements**

Generally, transfer applicants who have taken at least 12 credit hours with a minimum 2.000 overall GPA as computed by Kent State University (on a scale of 4.000) may be admitted to the university. Applicants who have taken fewer than 12 credit hours will be evaluated on both their collegiate and high school records. Applicants who have been dismissed from another college or university will not be considered for admission unless the students are eligible to return to that previous institution, have been out of college at least 12 consecutive months since the dismissal, or have completed at least 12 credit hours of credit at another institution with a minimum 2.000 overall GPA (on a scale of 4.000).

### **Selective Admissions**

Transfer students are not directly admitted into selective programs unless they meet specific requirements beyond those for acceptance to Kent State. Individual requirements for these programs are listed in the University Catalog. Students interested in these selective admissions areas should apply one year prior to the date of anticipated enrollment. Specific questions about these areas can be directed to the Office of Admissions or the individual departments/schools.

### **Application Deadlines**

Transfer applications are reviewed on a rolling basis. Early application helps ensure early consideration for course registration, residence hall preference and financial aid. Therefore, the best time to apply is at least six months prior to anticipated enrollment, although some selective programs may have different deadlines.

Admission to Kent State University is valid only for the specific term to which the students were first admitted. Students who do not enroll in the term to which they were admitted must submit a new application. The Office of Admissions will then determine the students' admissibility for that term.

Refer to the policy on Transfer of Undergraduate Credit in the University Catalog.

### **International Students**

Applicants must apply as international students if they are not citizens of the United States or are not currently maintaining immigration status in the United States as a legal permanent resident, refugee or asylee. International students who wish to enter Kent State University should allow six months from the date of initial correspondence to the beginning date of classes to complete the application process. This will generally ensure enough time for international applicants to obtain a student visa and make international travel arrangements.

All international applicants must submit application materials to the Office of Global Education. International students wishing to attend one of Kent State's regional campuses must apply and be admitted through the Office of Global Education on the Kent Campus.

Refer to the policies above for freshmen and transfer students for more information on criteria for admission and application procedures and process, including deadlines.



## **Veteran Student**

Ohio veterans of the Armed Services who did not graduate from an accredited high school and who are 21 years of age or older will be considered by Kent State University if they have passed the General Educational Development (GED) examination. Certain training courses provided in the Armed Services may be acceptable for college credit. Certificates of completion for such courses should be submitted to the Office of Admissions for consideration.

Veterans may also seek assistance with pre-admission counseling through the Center for Adult and Veteran Services.

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# ACCREDITATION

Kent State University is an affiliate of the National Association of State Universities and Land Grant Colleges and the American Association of State Colleges and Universities. The university is accredited by The Higher Learning Commission. Individual graduate and undergraduate programs also are accredited or approved by:

## **Accreditation Association for Ambulatory Health Care (AAAHC)**

5250 Old Orchard Road, Suite 200  
Skokie, IL 60077  
847-853-6060  
www.aaahc.org/

## **Accreditation Board of Engineering and Technology (ABET)**

415 North Charles Street  
Baltimore, MD 21201  
410-347-7700  
www.abet.org/

## **Accreditation Commission for Education in Nursing (ACEN)**

3343 Peachtree Road NE, Suite 850  
Atlanta, GA 30326  
404-975-5000  
www.acenursing.org/

## **Accreditation Commission for Programs in Hospitality Administration (ACPHA)**

P.O. Box 400  
Oxford, MD 21654  
410-226-5527  
www.acpha-cahm.org/

## **Accreditation Council for Education in Nutrition and Dietetics (ACEND)**

The Academy of Nutrition and Dietetics  
120 South Riverside Plaza, Suite 2190  
Chicago, IL 60606-6995  
800-877-1600  
www.eatrightpro.org

## **Accreditation Council for Occupational Therapy Education (ACOTE)**

(East Liverpool and Ashtabula)  
American Occupational Therapy Association, Inc.  
6116 Executive Boulevard, Suite 200  
North Bethesda, MD 20852-4929  
301-652-6611  
www.aota.org/acend

## **Accrediting Council on Education in Journalism and Mass Communication (ACEJMC)**

201 Bishop Hall  
P.O. Box 1848  
University, MS 38677-1848  
662-915-5550  
www.acejmc.org/

## **American Alliance of Museums (AAM)**

2451 Crystal Drive, Suite 1005  
Arlington, VA 22202  
202-289-1818  
www.aam-us.org/

## **American Bar Association (ABA)**

Standing Committee on Paralegals  
321 North Clark Street  
Chicago, IL 60654  
800-285-2221  
www.americanbar.org/group/paralegals

## **American Chemical Society (ACS)**

1155 Sixteenth St. N.W.  
Washington, DC 20036  
800-333-9511  
www.acs.org

## **American College of Sports Medicine (ACSM)**

401 W. Michigan Street  
Indianapolis, IN 46202-3233  
317-637-9200  
www.acsm.org/

## **American Council for Construction Education (ACCE)**

300 Decker Drive  
Suite 330  
Irving, TX 75062  
972-600-8800  
www.acce-hq.org

## **American Council on the Teaching of Foreign Languages (ACTFL)**

1001 N. Fairfax Street  
Suite 200  
Alexandria, VA 22314  
703-894-2900  
www.actfl.org

## **American Library Association (ALA)**

50 East Huron St.  
Chicago, IL 60611  
800-545-2433  
www.ala.org

## **American Psychological Association (APA)**

750 First St. N.E.  
Washington, DC 20002-4242  
800-374-2721  
www.apa.org

## **American Veterinary Medical Association (AVMA)**

(Tuscarawas)  
1931 North Meacham Rd., Suite 100  
Schaumburg, IL 60173-4360  
800-248-2862  
www.avma.org

## **Association for Assessment and Accreditation of Laboratory Animal Care International (AAALAC International)**

5205 Chairman's Court  
Suite 300  
Frederick, MD 21703  
301-696-9626  
www.aaalac.org

## **Association of Middle Level Educators**

2550 Corporate Exchange Dr.  
Suite 324  
Columbus, OH 43231  
614-895-4730

www.amle.org

**Association of Technology, Management, and Applied Engineering (ATMAE)**

701 Exposition Place  
Suite 206  
Raleigh, NC 27615  
919-635-8335  
www.atmae.org

**Association to Advance Collegiate Schools of Business (AACSB International)**

777 South Harbor Island Blvd., Suite 750  
Tampa, FL 33602-5729  
813-769-6500  
www.aacsb.edu/

**Aviation Accreditation Board International (AABI)**

115 S. 8th Street  
Suite 102  
Opelika, AL 36801  
334-748-9359  
www.aabi.aero/

**Commission on Accreditation in Physical Therapy Education (CAPTE)**  
(Ashtabula and East Liverpool)

1111 North Fairfax St.  
Alexandria, VA 22314-1488  
800-999-2782  
www.capteonline.org

**Commission on Accreditation of Athletic Training Education (CAATE)**

6850 Austin Center Blvd., Suite 100  
Austin, TX 78731-3184  
844-462-2283  
caate.net

**Commission on Collegiate Nursing Education (CCNE)**

655 K Street, N.W., Suite 750  
Washington, DC 20001  
202-887-6791  
www.aacnnursing.org/CCNE

**Commission on Accreditation for Respiratory Care (CoARC)**

264 Precision Blvd  
Telford, TN 37690  
817-283-2835  
www.coarc.com

**Committee on Accreditation for the Exercise Sciences (CoAES)**

401 W. Michigan Street  
Indianapolis, IN 46202  
317-777-1135  
www.coaes.org

**Council for Accreditation of Counseling and Related Educational Programs (CACREP)**

500 Montgomery Street  
Suite 350  
Alexandria, VA 22314  
703-535-5990  
www.cacrep.org

**Council for Interior Design Accreditation (CIDA)**

206 Grandville Avenue, Suite 350  
Grand Rapids, MI 49503-4014  
616-458-0400  
accredit-id.org

**Council on Academic Accreditation (CAA) in Audiology and Speech-Language Pathology**

The American Speech-Language Hearing Association (ASHA)  
2200 Research Blvd.  
Rockville, MD 20850-3289  
301-296-5700  
caa.asha.org

**Council on Accreditation of Parks, Recreation, Tourism and Related Professions (COAPRT)**

Marvin Rd NE  
STE 307 #172  
Lacey, WA 98516  
306-205-2096  
www.nrpa.org

**Council on Education for Public Health (CEPH)**

1010 Wayne Avenue, Suite 220  
Silver Spring, MD 20910  
202-789-1050  
ceph.org

**Council on Education of the Deaf (CED)**

c/o University of Texas Health Science Center San Antonio  
MC 7777  
7703 Floyd Curl Drive  
San Antonio, TX 78229  
email: [executivedirector@councilondeafed.org](mailto:executivedirector@councilondeafed.org)  
www.councilondeafed.org

**Council on Podiatric Medical Education (CPME)**

9312 Old Georgetown Road  
Bethesda, MD 20814-1621  
301-581-9200  
www.cpme.org

**Federal Aviation Administration (FAA)**

U.S. Department of Transportation  
800 Independence Avenue, S.W.  
Washington, DC 20591  
866-835-5322  
www.faa.gov

**Higher Learning Commission (HLC) – Institutional Accreditation**

230 South LaSalle Street, Suite 7-500  
Chicago, IL 60604-1411  
800-621-7440  
www.hlcommission.org

**Joint Review Committee on Education in Radiologic Technology (JRCERT)**

20 N. Wacker Drive, Suite 2850  
Chicago, IL 60606-3182  
312-704-5300  
www.jrcert.org

**Landscape Architecture Accreditation Board (LAAB)**

The American Society of Landscape Architects (ASLA)  
636 Eye Street, NW

Washington, DC 20001-3736  
888-999-2752  
[www.asla.org/accreditationlaab.aspx](http://www.asla.org/accreditationlaab.aspx)

**National Architectural Accrediting Board (NAAB)**

1735 New York Ave, NW  
Washington, DC 20006  
202-783-2007  
[www.naab.org](http://www.naab.org)

**National Association of Long Term Care Administrator Boards (NAB)**

1120 20th Street, NW, Ste.750  
Washington, DC 20036  
202-712-9040  
[www.nabweb.org](http://www.nabweb.org)

**National Association of School Psychologists (NASP)**

4340 East West Highway, Suite 402  
Bethesda, MD 20814  
866-331-6277  
[www.nasponline.org](http://www.nasponline.org)

**National Association of Schools of Art and Design (NASAD)**

11250 Roger Bacon Drive, Suite 21  
Reston, VA 20190-5248  
703-437-0700  
[nasad.arts-accredit.org](http://nasad.arts-accredit.org)

**National Association of Schools of Dance (NASD)**

11250 Roger Bacon Drive, Suite 21  
Reston, VA 20190-5248  
703-437-0700  
[nasd.arts-accredit.org](http://nasd.arts-accredit.org)

**National Association of Schools of Music (NASM)**

11250 Roger Bacon Drive, Suite 21  
Reston, VA 20190-5248  
703-437-0700  
[nasm.arts-accredit.org](http://nasm.arts-accredit.org)

**National Association of Schools of Theatre (NAST)**

11250 Roger Bacon Drive, Suite 21  
Reston, VA 20190-5248  
703-437-0700  
[nast.arts-accredit.org](http://nast.arts-accredit.org)

**National Council for Accreditation of Teacher Education (NCATE)**

Council for the Accreditation of Educator Preparation (CAEP)  
1140 19th Street, NW, Suite 400  
Washington, DC 20036  
202-223-0077  
[www.ncate.org](http://www.ncate.org)  
[www.caepnet.org](http://www.caepnet.org)

**Network of Schools of Public Policy, Affairs and Administration (NASPAA)**

1029 Vermont Avenue, NW, Suite 1100  
Washington, DC 20005-3517  
202-628-8965  
[www.naspaa.org](http://www.naspaa.org)

**Ohio Board of Nursing (OBN)**

17 South High St., Suite 660  
Columbus, OH 43215-3466

614-466-3947  
[www.nursing.ohio.gov](http://www.nursing.ohio.gov)

**Ohio Department of Education (ODE)**

25 South Front Street  
Columbus, OH 43215-4183  
877-644-6338  
[education.ohio.gov](http://education.ohio.gov)

**Ohio Department of Higher Education (ODHE)**

25 South Front Street  
Columbus, OH 43215-4183  
614-466-6000  
[www.ohiohighered.org](http://www.ohiohighered.org)

**Ohio Peace Officer Training Commission (OPOTC)**

Ohio Attorney General  
30 E. Broad St., 14th Floor  
Columbus, OH 43215  
740-845-2700  
[www.ohioattorneygeneral.gov/Law-Enforcement?Ohio-Peace-Officer-Training-Academy](http://www.ohioattorneygeneral.gov/Law-Enforcement?Ohio-Peace-Officer-Training-Academy)

**Public Relations Society of America (PRSA) – Certification in Education for Public Relations**

120 Wall Street, 21st Fl.  
New York, NY 10005-4024  
212-460-1474  
<https://prssa.prssa.org/chapter-firm-resources/start-a-prssa-chapter/pr-program-certification/>

**United States Department of Agriculture**

1400 Independence Ave., S.W.  
Washington, DC 20250  
202-720-2791  
[www.usda.gov](http://www.usda.gov)

# UNIVERSITY FACULTY

## College of Aeronautics and Engineering Faculty

- Abdul-Aziz, Ali (2016), Associate Professor, Ph.D., Cleveland State University, 1985
- Amiruzzaman, Md (2009), Assistant Professor, Ph.D., Kent State University, 2016
- Armann, George (2015), Lecturer, B.S., Ohio University, 2006
- Bloebaum, Christina L. (2018), Professor & Dean
- Boergerhoff, Jason T. (2010), Associate Professor, M.S., University of North Dakota, 2010
- Boyd, Darwin L. (1983), Assistant Professor, Ph.D., Kent State University, 1991
- Chen, Xuhui (2019), Assistant Professor, Ph.D., Case Western Reserve University, 2019
- Chowdhury, Aminur R. (1997), Professor, Ed.D., West Virginia University, 1979
- Dorsey, C M. (2011), Lecturer, B.S., Kent State University, 1973
- Du, Yanhai (2013), Associate Professor, Ph.D., University of Waikato, 2004
- Fisch, Michael R. (1998), Associate Professor, Ph.D., Harvard College, 1982
- Hassler, Richard P. (2018), Assistant Professor
- Koptur, Evren (2003), Assistant Professor, Ph.D., Kent State University, 2016
- Kunda, Sarath C. (2014), Lecturer, M.D.S., Kent State University, 2015
- LaBerge, Kelsen E. (2018), Associate Professor
- Liu, Rui (2019), Assistant Professor, Ph.D., Colorado School of Mines, 2018
- Lorenzon, Jason (2007), Lecturer, J.D., Cleveland State University, 2007
- Lu, Ye (2019), Assistant Professor, Ph.D., 2019
- Mangrum, Richard L. (2003), Professor, Ed.D., Oklahoma State University, 2003
- McFarland, Maureen R. (2003), Assistant Professor & Associate Dean, Ph.D., Kent State University, 2017
- Merriman, Jenna (2017), Lecturer
- Mirinejad, Hossein (2019), Assistant Professor
- Nettey, Richmond I. (2001), Professor, Ph.D., University of Houston, 2000
- Oh, Chang-Geun (2016), Assistant Professor, Ph.D., Wright State University, 2015
- Palcho, Timothy L. (2000), Professor
- Ripple, James E. (2008), Assistant Professor, B.A., Kent State University, 1991
- Shen, Tao (2019), Assistant Professor
- Song, Shin-Min (2012), Professor, Ph.D., The Ohio State University, 1984
- Stringer, David B. (2013), Associate Professor, Ph.D., University of Virginia, Main Campus, 2008
- Testa, Michael (2017), Lecturer, M.S.M., University of Akron, 1997
- True, Trent (2004), Lecturer, M.Tech., Kent State University, 2007

- Uribe-Rendon, Roberto M. (1990), Professor, Ph.D., National Autonomous University of Mexico, 1986

## College of Applied and Technical Studies Faculty

- Alicea, Megan R. (2013), Lecturer, Boise State University, 2015
- Antenucci, Robert P. (2010), Assistant Professor, Ph.D., Kent State University, 2013
- Bailey, Mistey D. (2012), Lecturer
- Baker, John J. (2012), Associate Lecturer, M.S., La Roche College, 1990
- Banks, Kathleen C. (1990), Assistant Professor, M.S.N., West Virginia University, 1985
- Barcus, Laurie D. (2005), Associate Lecturer, M.S.N., University of Phoenix, 2006
- Bears, Lorraine E. (1999), Associate Lecturer, M.Tech., Kent State University, 2004
- Beck, Stacy J. (2008), Associate Lecturer, M.P.H., Kent State University, 2004
- Berlin, Kingsly T. (2013), Associate Lecturer, B.S., The Ohio State University, 2005
- Blake, Robert M. (2003), Assistant Professor, M.S., Duke University, 1994
- Bonaduce, Samantha J. (2012), Lecturer, M.S.N., Kent State University, 2015
- Brindley, Lisa K. (1999), Senior Lecturer, M.Ed., Kent State University, 1983
- Britenbaugh, Brandy L. (2019), Lecturer, M.O.T., University of Findlay, 2006
- Brown, Marvine (2015), Lecturer
- Burkholder, Maria R. (2006), Associate Lecturer, B.S., The Ohio State University, 2001
- Burnworth, Christina M. (1995), Lecturer, M.Tech., Kent State University, 2006
- Caldwell, Joy E. (2013), Lecturer
- Cameron, Mary M. (2017), Lecturer, B.S., Kent State University, 2013
- Carvalho, Carolyn J. (2004), Senior Lecturer, M.Tech., Kent State University, 2007
- Casey, Donna J. (2009), Lecturer & Academic Program Director, M.S.N., Walden University, 2009
- Chen, Jie (2001), Professor
- Courey, Tamra J. (1998), Associate Professor, D.N.P., Kent State University, 2014
- Czayka, Michael A. (1994), Senior Lecturer, M.Tech., Kent State University, 2002
- Daugherty, William S. (2005), Associate Lecturer, M.B.A., University of Hawaii, Manoa, 1974
- Dees, David M. , Associate Professor & Dean & Chief Administrative Officer , Ph.D., Kent State University, 2000
- Douglass, Angela T. (2003), Senior Lecturer, M.S.N., Youngstown State University, 2003
- Dragomir, Kelly A. (2012), Associate Lecturer, B.A., Kent State University, 2010
- Drugovich, Collette M. (2014), Associate Lecturer, M.S.N., Grand Canyon University, 2014

- Emens, Susan (1993), Associate Professor & Assistant Dean, M.A.E., Kent State University, 2003
- Ensminger-Stokes, Dawn E. (2011), Lecturer, M.S.N., University of Akron, 2007
- Freitas, Frances A. (1995), Assistant Professor, Ph.D., Kent State University, 2007
- Fritz, Timothy E. (2003), Lecturer
- Gialousis, Christine D. (2012), Lecturer
- Ginal, Sharon L. (2006), Associate Lecturer, M.S.N., Ursuline College, 2002
- Golden, Shawn D. (2004), Associate Professor, Ph.D., Kent State University, 2014
- Gump, Traci L. (2016), Lecturer, B.S., Ohio University, 2014
- Hager, Deborah L. (2004), Associate Professor, M.S.N., Franciscan University of Steubenville, 2004
- Hancock, Darryl A. (2012), Associate Professor, Ph.D., Chatham College, 2008
- Harding, Mariann M. (2005), Professor, Ph.D., West Virginia University, 2013
- Hildebrandt, Wendy C. (2015), Lecturer, M.S., Western Governors University, 2013
- Hoffman, Susan C. (1983), Assistant Professor, M.B.A., Wheeling College, 1982
- Iagulli, Margie B. (1997), Senior Lecturer, M.Ed., Kent State University, 2002
- Johnston, Kelly R. (2016), Lecturer, D.V.M., The Ohio State University, 1992
- Jones, Tonnette S. (2013), Lecturer, M.S.N., Ursuline College, 2013
- Kananian, Mary W. (2012), Lecturer, M.S.N., Marquette University, 1988
- Kelly, Johnston R. (2016), Lecturer, D.V.M., The Ohio State University, 1992
- Kiphart, Tiffany M. (2002), Senior Lecturer & Academic Program Director, B.S., Wilmington College of Ohio, 1993
- Koptur, Turan E. (2007), Lecturer, M.T., Kent State University, 2013
- Leija, Lynn M. (2005), Associate Lecturer, B.S., Ohio University, 1991
- Lickwar, Allisha (2017), Lecturer
- Main, Amy B. (2013), Assistant Professor, M.S.N., Indiana State University, 2008
- Majernik, John G. (2009), Lecturer, M.Ed., Kent State University, 2012
- Marshall, Shelley K. (1999), Associate Lecturer, M.Tech., Kent State University, 2008
- Martin-Bloodsaw, Charla (2018), Lecturer, B.A., Cleveland State University, 1996
- McCrea, Justin M. (2017), Lecturer
- McEnroe-Petitte, Denise M. (1996), Associate Professor, Ph.D., Capella University, 2014
- Mermer, Robin J. (2014), Lecturer, M.S.N., Kent State University, 2012
- Migge, Victoria L. (2006), Senior Lecturer, M.S., St. Francis University, 2004
- Morris, Lora J. (2003), Associate Professor, M.S.N., Ursuline College, 2002
- Muscatello, Joseph R. (2004), Associate Professor, D.B.A., Cleveland State University, 2002
- Neuman, Jyotsna (1986), Assistant Professor & Interim Assistant Dean, M.A.F.I.S., Cleveland State University, 1981
- Newman, Edward (1994), Assistant Professor, M.B.A., Ashland University, 1994
- Niederhiser, Dennis L. (2013), Lecturer
- Ossler, Robert L. (2011), Lecturer, M.S.N., University of Phoenix, 2010
- Panthi, Dhruva (2016), Assistant Professor, University Of Tokyo, 2014
- Paternite, Judith S. (1995), Professor, Ph.D., Kent State University, 2016
- Pech, Sandra L. (2000), Assistant Professor, Ph.D., Kent State University, 2010
- Peterson, Cynthia L. (1999), Senior Lecturer, M.P.H., Kent State University, 2008
- Rajagopal, Chitra P. (1993), Associate Professor, M.S., Youngstown State University, 1992
- Ratican, Sean P. (2018), Assistant Professor
- Remedio, Robert J. (1984), Assistant Professor, M.S., Youngstown State University, 1978
- Rempe, Rebecca D. (2010), Associate Lecturer, M.L.I.S., Kent State University, 2017
- Rezaei, Dariush (1989), Associate Professor, M.S., University of Arkansas, 1988
- Ricketts, Janine M. (2016), Lecturer, M.S., D'Youville College, 1999
- Rose, Stacy R. (2001), Associate Professor, M.S.N., Case Western Reserve University, 2000
- Schlosser, Elizabeth A. (1995), Associate Professor, B.S., Bowling Green State University, 1989
- Schmalzried, Robert J. (2017), Lecturer, Youngstown State University, 2004
- Schnurrenberger, Julia K. (2018), Lecturer, M.S.N., Indiana University, Purdue University Indianapolis, 2008
- Senita, Julie A. (2004), Associate Professor & Academic Program Director, Ph.D., Kent State University, 2017
- Sharma, Sankalp (2017), Assistant Professor
- Stefka, Shelly L. (2013), Lecturer, M.S.N., Walden University-Baltimore, 2012
- Steidl, Joan M. (2007), Associate Professor, M.A., John Carroll University, 2007
- Stocker, Susan J. , Associate Professor & Dean & Chief Administrative Officer
- Swoboda, Kathleen (2008), Associate Lecturer & Academic Program Director, L.S.M., Kent State University, 2011
- Totten, Christopher W. (2018), Assistant Professor, M.Arch., Catholic University of America, 2009
- Trebets, Edward (2016), Lecturer, M.Ed. , John Carroll University, 1998
- Tu, Tsunghui (2002), Associate Professor, Ph.D., Iowa State University, 2001
- Upole, Daryl G. (1992), Associate Lecturer
- Vanfossen, Jonathan S. (2007), Lecturer, M.Tech, Kent State University, 2009
- Ward, William C. (1988), Associate Professor, M.A., Kent State University, 1997
- Watson, Ruth A. (1989), Associate Professor, Ph.D., Kent State University, 2004
- Yakovac, Rebecca L. (2012), Lecturer, M.A., The Ohio State University, 1991



- Zampino, Anthony C. (1998), Associate Lecturer, M.Tech., Kent State University, 2003
- Zarzour, Richard (2019), Lecturer

## College of Architecture and Environmental Design Faculty

- Adamtey, Simon (2016), Assistant Professor
- Bayramzadeh, Sara (2018), Assistant Professor, Ph.D., University of Florida, 2015
- Bernal, Ivan A. (2018), Associate Professor & Program Director, M.Arch., Southern California Institute of Architecture, 2011
- Brandner, Sara K. (2010), Lecturer
- Cho, Ji Young (2010), Assistant Professor, Ph.D., University of Missouri-Columbia, 2011
- Coffman, Reid R. (2012), Associate Professor
- Daniel, Ronn (2018), Associate Professor, M.A., University of Illinois at Chicago, 1994
- Davis-Sikora, Diane M. (1997), Associate Professor, M.Arch., Harvard University Graduate & Professional School, 1995
- Frederick, Charles M. (1996), Assistant Professor, M.L.A., University of Virginia, Main Campus, 1998
- Hughes, David (1985), Professor, M.U.P., New York City College of Technology, 1975
- Jaminet, Jean J. (2017), Assistant Professor, M.Arch., Princeton University, 2004
- Karpinski, Joseph (1990), Senior Lecturer, M.Tech, Kent State University, 2005
- Lahrmer, Jill (2008), Assistant Professor, B.A., Bowling Green University, 1999
- Liu, Rui (2013), Associate Professor, Ph.D., University of Colorado, Denver, 2010
- Lucak, Frederick W. (1986), Associate Professor, B.Arch., Kent State University, 1990
- Marshall, Cathy S. (2017), Associate Professor, M.L.A., Harvard University Graduate and Professional School, 2003
- Meshkani, Taraneh (2018), Assistant Professor, Harvard University Graduate & Professional School, 2016
- Mirando, Anthony M. (2013), Lecturer, M.S., Colorado State University, 2014
- Onsarigo, Lameck M. (2016), Assistant Professor, Ph.D., Indiana State University, 2016
- Patel, Tina (2018), Assistant Professor
- Peters, Brian (2013), Assistant Professor, M.Arch., University of Illinois-Chicago, 2005
- Poustinchi, Mohammad Ebrahim (2017), Assistant Professor, M.Arch., University of California, Los Angeles, 2014
- Robison, Elwin C. (1985), Professor, Ph.D., Cornell University, 1985
- Rugare, Steven N. (1993), Associate Professor
- Safley, Robert N. (2018), Assistant Professor, M.Arch., University of Michigan, Ann Arbor, 2013
- Sharag-Eldin, Adil M.K. (2002), Associate Professor, Ph.D., University of California-Berkeley, 1998
- Sharag-Eldin, Adil M. (2002), Associate Professor, Ph.D., University of California, Berkeley, 1998

- Stauffer, Thomas A. (1977), Professor, M.Arch., University of Pennsylvania, 1976
- Strand, Kathryn E. (2003), Associate Professor, M.Arch., University of Pennsylvania, 2003
- Stroh, Gregory S. (1998), Associate Professor, M.Arch., University of Pennsylvania, 1996
- Tippet, Brett D. (2012), Associate Professor, Ph.D., Universidad de Navarra, 2011
- Willoughby, William T. (2013), Associate Professor & Associate Dean, M.A., Kent State University, 1991
- Yoder, Jon (2013), Associate Professor, Ph.D., University of California-Los Angeles, 2011

## College of Arts and Sciences Faculty

- West, John L. (1984), Trustees Research Professor, Ph.D., Carnegie Mellon University, 1980

## Center for Comparative and Integrative Programs Faculty

- Kessler, Chaya (2009), Associate Lecturer, M.A., Youngstown State University, 2005
- Paar Conroy, Amanda M. (2013), Associate Professor, J.D., Cleveland State University, 2005
- Peterson, Mary S. (2016), Assistant Professor, J.D., Bowling Green State University, 1987

## Center for the Study of Gender and Sexuality Faculty

- Holt, Suzanne L. (1984), Professor, Ph.D., Kent State University, 1994
- Merryman, Molly B. (1996), Associate Professor & Director, Ph.D., Bowling Green State University, 1995
- Vachon, Lauren (2012), Assistant Professor, M.F.A., Kent State University, 2013

## Department of Anthropology Faculty

- Bebber, Michelle R. (2019), Assistant Professor
- Eren, Metin (2016), Assistant Professor, Ph.D., Southern Methodist University, 2011
- Fotiou, Evgenia (2014), Assistant Professor, Ph.D, University of Wisconsin, Madison, 2010
- Lovejoy, Claude O. (1968), Distinguished Professor, Ph.D., University of Massachusetts, Amherst, 1970
- Manahan, Thomas K. (2006), Associate Professor, Ph.D., Vanderbilt University, 2003
- Meindl, Richard (1979), Professor, Ph.D., University of Massachusetts, Amherst, 1979
- Perusek, David J. (1998), Associate Professor, L.S.M., Kent State University, 1989
- Raghanti, Mary Ann (2000), Professor & Chair, Ph.D., Kent State University, 2007
- Spurlock, Linda B. (1993), Associate Professor, Ph.D., Kent State University, 2001
- Stumpf-Carome, Jeanne M. (1994), Associate Professor, Ph.D., University of California, Berkeley, 1992
- Takeshita, Rafaela S. (2019), Assistant Professor
- Tosi, Anthony J. (2014), Associate Professor, Ph.D., Columbia University, 2000

## Department of Biological Sciences Faculty

- Bade, Darren L. (2006), Associate Professor, Ph.D., University of Wisconsin, 2004
- Bagavandoss, Paul (1993), Associate Professor, Ph.D., University of Michigan, Ann Arbor, 1986
- Bahlai, Christine (2017), Assistant Professor, Ph.D., University Of Guelph, 2012
- Bailey, Erin L. (2012), Associate Professor, Ph.D., Kent State University, 2001
- Blackwood, Christopher B. (2006), Professor, Ph.D., Michigan State University, 2001
- Blank, James L. (1986), Professor and College Dean, Ph.D., Indiana University, 1982
- Breidenbaugh, Caralisa (2010), Associate Lecturer, M.S., Youngstown State University, 2008
- Brennan, Michael J. (2004), Senior Lecturer, M.Ed., Edinboro University of Pennsylvania, 1985
- Caldwell, Heather K. (2007), Professor, Ph.D., Georgia State University, 2004
- Carlson, Chris R. (1991), Associate Professor, M.S., Michigan State University, 1981
- Casadesus Smith, Gemma (2014), Professor, Ph.D., Tufts University, 2003
- Case, Andrea L. (2005), Associate Professor, Ph.D., University of Toronto, 2000
- Chen, Yijing (2006), Assistant Professor, Ph.D., University of Wisconsin, Madison, 1997
- Chung, Wilson C. (2011), Associate Professor, Ph.D., University of Amsterdam, 2003
- Clements, Robert J. (1997), Assistant Professor, Ph.D., Kent State University, 2004
- Costello, David M. (2014), Assistant Professor, Ph.D., University of Notre Dame, 2010
- Damron, Derek S. (2007), Professor, Ph.D., Kent State University, 1991
- Dankovich, Daniel S. (2010), Lecturer
- De Szalay, Ferenc A. (1997), Associate Professor, Ph.D., University of California, Berkeley, 1995
- Delorme, Thierry A. (2004), Associate Professor, Ph.D., University of Lyon, 1997
- Ding, Qunxing (2007), Associate Professor, Ph.D., Beijing University of Agriculture , 1994
- Eichler, Sarah E. (2019), Assistant Professor, Ph.D., University of Tennessee, Knoxville
- Eisermann, Kurtis (2002), Assistant Professor
- Engohang-Ndong, Jean (2010), Associate Professor
- Fraizer, Gail C. (2001), Associate Professor, Ph.D., University of California, Berkeley, 1983
- Freeman, Ernest J. (1990), Associate Professor & School Director, Ph.D., Kent State University, 1991
- Gerbig, Donald G. (1996), Associate Professor, Ph.D., University of Tennessee, Knoxville, 1991
- Glass, David J. (1984), Professor
- Grafton, Brian W. (1994), Professor, Ph.D., Kent State University, 2004
- Groff, Chi-Hua (2009), Assistant Professor, Ph.D., Wayne State University, 1997
- Gupta, Sanhita (2009), Associate Professor, Ph.D., Case Western Reserve University, 1998
- Hamilton, Robert (2005), Associate Professor, Ph.D., Rutgers, State University of New Jersey, 2006
- Hoeh, Walter R. (1998), Associate Professor, Ph.D., University of Michigan, Ann Arbor, 1991
- Huang, Songping D. (1998), Professor, Ph.D., Michigan State University, 1993
- Johnson, John D. (2007), Associate Professor, Ph.D., University of Colorado, Boulder, 2002
- Kershner, Mark W. (1999), Associate Professor, Ph.D., The Ohio State University, 1998
- Kim, Min-Ho (2012), Associate Professor, Ph.D., University of Toledo, 2002
- Kim, Woo-Yang (2018), Associate Professor
- Kinsman-Costello, Lauren E. (2013), Assistant Professor, Ph.D., Michigan State University, 2012
- Kooijman, Edgar (1998), Associate Professor, Ph.D., Utrecht University, 2006
- Koski, Gary K. (2010), Professor, Ph.D., Johns Hopkins University, 1995
- Kurokawa, Manabu (2017), Assistant Professor, Ph.D., Univ Of Massachusetts Amherst, 2004
- Lamichhaney, Sangeet (2019), Assistant Professor, Ph.D., Uppsala University, 2016
- Leff, Adam A. (1994), Associate Professor, D.V.M., University of Georgia, 1991
- Leff, Laura G. (1994), Professor & Department Chair, Ph.D., University of Georgia, 1992
- Lehnert, Matthew S. (2012), Associate Professor, Ph.D., University of Florida, 2010
- Lovell, John A. (1995), Associate Professor, Ph.D., Kent State University, 1993
- Marcinkiewicz, Jennifer L. (1995), Associate Professor & Director, Ph.D., University of Illinois at Chicago
- McDonough, Jennifer A. (2006), Associate Professor
- Meek, Leah M. (1995), Senior Lecturer
- Mintz, Eric M. (2002), Professor & Associate Dean, Ph.D., University of California, Santa Cruz, 1995
- Model, Michael A. (2004), Associate Professor, Ph.D., University of Michigan, Ann Arbor, 1995
- Mou, Xiaozhen (2008), Associate Professor, Ph.D., University of Georgia, 2006
- Mueller, Devin (2018), Associate Professor, Ph.D., Concordia University, 2005
- Naji, Josephine W. (1988), Associate Professor, Ph.D., Kent State University, 1994
- Novak-Barnett, Colleen M. (2009), Associate Professor, Ph.D., Michigan State University, 1999
- Piet, Richard (2019), Assistant Professor
- Piontkivska, Olena (2005), Associate Professor, Ph.D., Pennsylvania State University, 2003
- Popescu, Daniela C. (2013), Associate Professor, Ph.D., Vanderbilt University, 2006
- Redfearn, James C. (2006), Assistant Professor, Ph.D., Kent State University, 2016

- Rocha, Oscar J. (2004), Associate Professor, Ph.D., Penn State University, 1990
- Russell, Mary A. (2003), Associate Professor, Ph.D., The Ohio State University, 1996
- Shilling, Michael (2008), Assistant Professor, Ph.D., Kent State University, 2013
- Smith, Gregory A. (2014), Assistant Professor, Ph.D., University of Oklahoma, 2007
- Steele, Louise (2012), Assistant Professor, Ph.D., Case Western Reserve University, 2002
- Stone, Jonathan F. (2003), Associate Professor, B.S., University of Akron, 1985
- Tinkler, Gregory P. (2013), Associate Professor, Ph.D., Wake Forest University, 2005
- Vash, Sarah R. (2004), Senior Lecturer, M.S., Kent State University, 2003
- Veney, Sean L. (2004), Associate Professor, Ph.D., University of Virginia, Main Campus, 2000
- Vijayaraghavan, Srinivasan (1997), Professor
- Ward, David (2015), Professor, Ph.D., University of KwaZulu-Natal, 1988
- Welshhans, Kristy A. (2011), Assistant Professor
- Zhu, Haiyan (2010), Associate Professor, M.S., University of Kentucky, 1998
- Konar, Arkaprabha (2019), Assistant Professor, 2019, Michigan State University, 2015
- Leslie, Margaret R. (2004), Professor, Ph.D., Rhodes University, 1995
- Mao, Hanbin (2005), Professor, Ph.D., Texas A&M University, 2003
- Mighion, Jeffrey D. (2017), Assistant Professor, Ph.D., Princeton University, 2014
- Motry, Douglas H. (1996), Associate Professor, Ph.D., Michigan State University, 1996
- Pal Chaudhuri, Urmila (2008), Associate Professor, Ph.D., Indian Institute of Technology Madras, 2004
- Palfy-Muhoray, Peter (1987), Professor
- Perera, Roshinee S. (2013), Assistant Professor, Ph.D., University of Akron, 2011
- Sampson, Paul (1985), Professor, Ph.D., University of Birmingham, 1983
- Seed, Alexander J. (1996), Associate Professor
- Shen, Hao (2018), Assistant Professor, Ph.D., Cornell University, 2015
- Stroup, Diane (2000), Associate Professor, Ph.D., The Ohio State University, 1992
- Subramanian, Pritha (2006), Associate Professor, Ph.D., Kent State University, 2013
- Tandon, Santokh S. (2004), Professor, Ph.D., Guru Nanak Dev University, 1979
- Tubergen, Michael J. (1995), Professor, Ph.D., University of Chicago, 1991
- Twieg, Robert J. (1997), Professor, Ph.D., University of California, Berkeley
- Wang, Zhiqiang (2007), Professor
- Zheng, Yaorong (2015), Assistant Professor, Ph.D., University of Utah, 2011

## Department of Chemistry and Biochemistry Faculty

- Abeyirigunawardena, Sanjaya C. (2015), Assistant Professor, Ph.D., Wayne State University, 2008
- Abraham, Ann C. (2004), Associate Professor, Ph.D., University of Pittsburgh, 1983
- Basu, Soumitra (2005), Professor, Ph.D., Thomas Jefferson University, 1997
- Bowers, David J. (2013), Associate Professor
- Bunge, Scott D. (2004), Associate Professor, Ph.D., Georgia Institute of Technology, 2001
- Burns, Andrew (1994), Professor, Ph.D., Brown University, 1990
- Cubon-Bell, Valerie A. (2010), Associate Professor, Ph.D., Princeton University, 2008
- Datta, Bansidhar (2000), Associate Professor, University of Nebraska-Lincoln, 1989
- Ding, Tang (2006), Associate Professor, Ph.D., University of Akron, 2006
- Dunietz, Barry (2012), Associate Professor
- Earley, Clarke W. (1995), Associate Professor, Ph.D., University of Illinois-Urbana, 1987
- Ekanayake, Sujeewani K. (2012), Associate Professor
- Fenk, Christopher J. (1990), Professor & Interim Chair, Ph.D., University of Pittsburgh, 1987
- Fouad, Farid S. (2008), Associate Professor, Ph.D., Northeastern University, 2003
- Friedrich, Dirk (2016), Assistant Professor, Ph.D., Universitat Leipzig, 2013
- Hegmann, Torsten (2011), Professor & Director, Ph.D., Martin Luther University, 2001
- Jaroniec, Mietek (1988), Professor, D.S., Marie Curie Sklodowska University

## Department of Computer Science Faculty

- Allouzi, Maha A. (2013), Lecturer
- Bansal, Arvind K. (1988), Professor, Ph.D., Case Western Reserve University, 1985
- Dragan, Feodor F. (2000), Professor, Ph.D., Belarus State University
- Ghazinour Naini, Kambiz (2015), Assistant Professor, Ph.D., University of Calgary, 2012
- Guan, Qiang (2018), Assistant Professor, M.S., University of North Texas, 2008
- Guercio, Angela (1999), Associate Professor, Ph.D., Kent State University, 2004
- Jin, Ruoming (2005), Professor, Ph.D., The Ohio State University, 2001
- Khan, Javed I. (1997), Professor & Department Chair, Ph.D., University of Hawaii-Manoa, 1995
- Kim, JungYoon (2019), Assistant Professor, Ph.D., Penn State University, 2014
- Kim, Kwangtaek (2019), Assistant Professor, Ph.D., Purdue University, 2010
- Kim, Jong-Hoon (2017), Assistant Professor
- Lian, Xiang (2016), Assistant Professor, Ph.D., Hong Kong University Of Science and Technology, 2009
- Lu, Cheng-Chang (1988), Professor, Ph.D., Southern Methodist University, 1988
- Maha, Allouzi A. (2013), Lecturer

- Maletic, Jonathan I. (2001), Professor, Ph.D., Wayne State University, 1995
- Melton, Austin C. (1996), Professor, Ph.D., Kansas State University, 1980
- Nesterenko, Mikhail (1998), Professor, Ph.D., Kansas State University, 1998
- Peyravi, Hassan M. (1985), Professor, Ph.D., University of Oklahoma, 1995
- Samba, Augustine S. (2001), Professor, Ph.D., University of Liverpool, 1983
- Sharma, Gokarna (2015), Assistant Professor, Ph.D., Louisiana State University, 2014
- Volkert, Gwenn L. (2001), Associate Professor
- Walker, Robert A. (1996), Professor, Ph.D., Carnegie Mellon University, 1988
- Younghun, Chae (2016), Assistant Professor, Ph.D., University of Rhode Island, 2017
- Zhao, Ye (2006), Professor, Ph.D., State University of New York, Stony Brook, 2006
- Devore, Elizabeth E. (2010), Associate Lecturer, M.A., New Mexico Highlands University, 2009
- Dugas, Don-John (2005), Professor, Ph.D., Penn State University, 1999
- Dunmire, Patricia L. (1995), Professor, Ph.D., Carnegie Mellon University, 1995
- Elder, Dolores M. (2009), Lecturer, M.A., Kent State University, 2010
- Ellis, Marnie K. (2003), Associate Lecturer, M.F.A., Bowling Green State University, 1999
- Erritouni, Ali (2005), Associate Professor, Ph.D., University of Miami, 2004
- Fein, Susanna G. (1985), Professor, Ph.D., Harvard College, 1985
- Floyd, Kevin R. (1998), Professor, University of Iowa, 1998
- George, Barbara E. (2011), Assistant Professor, Ph.D., Kent State University, 2018
- Hakutani, Yoshinobu (1968), Professor, Ph.D., Pennsylvania State University, 1965
- Hamrick, Phillip M. (2013), Associate Professor, Ph.D., Georgetown University, 2013
- Harrington, Kristine (2016), Lecturer
- Harrison, Denise A. (2005), Associate Lecturer, M.A., Miami University, 2001
- Hayes, Amanda (2016), Assistant Professor
- Hediger, Ryan R. (2011), Associate Professor, Ph.D., University of Oregon, 2005
- Hendrickx, Jessy A. (2015), Lecturer, M.A., Kent State University, 2002
- Howard, Elizabeth A. (2000), Professor, B.A., Kent State University, 1987
- Huot, Brian A. (2004), Professor, Ph.D., Indiana University of Pennsylvania, 1988
- Jones, Jessica M. (2016), Lecturer, University Of Montana, 2014
- King, Robert J. (1998), Associate Professor, M.F.A., Indiana University-Bloomington, 1998
- Krishnan, Uma S. (2001), Professor, Ph.D., Kent State University, 2014
- Lieske, Pamela J. (1997), Professor, Ph.D., University of Massachusetts, Amherst, 1996
- Lloyd, Keith S. (2002), Professor, Ph.D., University of Louisville, 1996
- Lyons, Janet L. (2010), Associate Lecturer, M.A., Kent State University, 2011
- Lyons, Jo-Leigh (1991), Senior Lecturer, M.A., Kent State University, 1996
- M'Baye, Babacar (2006), Professor, Ph.D., Bowling Green State University, 2002
- MacLure, Jennifer (2017), Assistant Professor, Ph.D., University of Wisconsin, Madison, 2017
- Martinez, Ann M. (2014), Assistant Professor, Ph.D., University of Kansas, 2014
- Mechenbier, Mahli X. (1996), Senior Lecturer, J.D., University of Akron, 2002
- Metz, John (2010), Senior Lecturer, M.A., University of Toledo, 1985
- Miller, Ryan T. (2014), Associate Professor, Ph.D., Carnegie Mellon University, 2013
- Mokros, Molly M. (2009), Lecturer
- Moneysmith, Jayne A. (1996), Associate Professor
- Myers, Joshua R. (2019), Lecturer

## Department of English Faculty

- Abuzeid, Ayham (2007), Associate Lecturer, B.A., Kent State University, 2008
- Baker, Charles R. (2002), Associate Professor, Ph.D., Indiana University of Pennsylvania, 1997
- Baker, Alexis M. (2017), Assistant Professor, Ph.D., Kent State University, Stark Campus, 2016
- Bice, Deborah M. (1997), Associate Professor, Ph.D., Case Western Reserve University, 1995
- Bowers, Abigail L. (2011), Associate Professor, Ph.D., Texas A&M University, Main Campus, 1997
- Bowles, Noelle K. (2001), Associate Professor, Ph.D., University of Miami, 1996
- Bracher, Mark F. (1985), Professor, Ph.D., Vanderbilt University, 1981
- Brodsky, Adam H. (2008), Associate Lecturer, M.A., Kent State University, 2011
- Byrne, Peter M. (2008), Associate Professor, Ph.D., University of California, Irvine, 2004
- Camden, Vera J. (1984), Professor, Ph.D., University of Virginia, Main Campus, 1986
- Canacci, James E. (1995), Associate Lecturer, M.A., Youngstown State University, 1995
- Christen-Syed, Shannon L. (2010), Lecturer, M.A., Kent State University, 2004
- Chu, Alan (2016), Assistant Professor, Ph.D., University of Arizona, 2017
- Ciuba, Gary M. (1986), Professor, Ph.D., Fordham University, 1986
- Clewell, Tammy (2000), Professor, Ph.D., Florida State University, 2000
- Conrad, Jessica (2019), Lecturer, Ph.D., University of Delaware, 2019
- Cunningham, Jennifer M. (2009), Associate Professor, Ph.D., Kent State University, 2012
- Dallacheisa, Tony G. (2008), Lecturer
- Daniels, Martha E. (2010), Lecturer, Ed.D., Walden University, 2008
- Dauterich, Edward (1997), Professor, Ph.D., Kent State University, 2006
- Davis Patterson, Kathy S. (2000), Associate Professor, Ph.D., The Ohio State University, 1999



- Neaderhiser, Stephen E. (2009), Assistant Professor, M.A., University of Kansas, 2004
  - Neiderman, Beverly A. (1990), Senior Lecturer, M.A., Bowling Green State University, 1980
  - Nestor, Sarah M. (2017), Assistant Professor, Ph.D., Marquette University, 2012
  - Orr, Katherine M. (1990), Professor, Ph.D., Kent State University, 2010
  - Pate, Corey M. (2007), Lecturer, M.Ed., Kent State University, 2005
  - Patterson, G. R. (2018), Assistant Professor
  - Piccirillo-Smith, Linda A. (1983), Senior Lecturer, M.A., Kent State University, 1980
  - Prescott, Renate W. (1993), Associate Professor, Ph.D., Bowling Green State University, 1990
  - Raabe, Wesley (2008), Associate Professor, Ph.D., University of Virginia, Main Campus, 2006
  - Remley, Dirk R. (1990), Professor, Ph.D., Kent State University, 2010
  - Rilling, Sarah E. (2002), Professor, Ph.D., Northern Arizona University, 1998
  - Robinson, Carol L. (2000), Associate Professor, Ph.D., University of Georgia, 1994
  - Roman, Christopher M. (1997), Professor, Ph.D., University of Alabama, 2004
  - Rooks, Mary A. (2005), Assistant Professor, Ph.D., University of Mexico, 2004
  - Rozner, Debbie L. (2010), Senior Lecturer, M.Ed., George Washington University, 2004
  - Sainato, Susan M. (1987), Professor, Ph.D., Kent State University, 2002
  - Sanders, Michael T. (1995), Associate Professor, Ph.D., Kent State University, 2006
  - Schaffler, Charlene M. (1991), Senior Lecturer, M.A., Kent State University, 1994
  - Shaker, Bonnie J. (2013), Assistant Professor, Ph.D., Case Western Reserve University, 1998
  - Shank, Matthew A. (1983), Senior Lecturer, M.A., University of Akron, 1982
  - Simpson, Barry H. (2009), Lecturer, M.Ed., Cleveland State University, 2001
  - Sloan, Jay D. (2000), Associate Professor, Ph.D., Marquette University, 1999
  - Smith, Jeanne R. (1998), Associate Lecturer, M.A., State University of New York, Binghamton, 1986
  - Stewart, Matthew R. (1998), Associate Lecturer, M.A., Kent State University, 1980
  - Sturr, Robert D. (1997), Associate Professor, Ph.D., University of Southern California, 1998
  - Takayoshi, Pamela D. (2004), Professor, Ph.D., Indiana University, Purdue University Indianapolis, 1995
  - Trogdon, Robert W. (1997), Professor & Department Chair, Ph.D., University of South Carolina-Columbia, 1996
  - Uhrig, Mindy D. (2006), Associate Lecturer, M.A., University of Indiana, Bloomington, 1994
  - Van Ittersum, Derek (2008), Associate Professor, M.A., Kent State University, 2003
  - Vogel, Lauren A. (2001), Associate Lecturer, M.A., Kent State University, 2005
  - Wetzl, Ana M. (2007), Associate Professor
  - Willey, Nicole L. (1997), Professor, Ph.D., University of Alabama, 2003
  - Winebrenner, Kimberly C. (1982), Professor, Ph.D., Kent State University, 1991
  - Wing, Catherine (2010), Associate Professor, M.F.A., University of Washington, 2004
  - Winkler, Kyle M. (2018), Assistant Professor, Ph.D., University of Pittsburgh, 2018
  - Winter, James P. (2008), Associate Professor, M.F.A., Kent State University, 2012
  - Wollenzier, Michele M. (2005), Associate Lecturer, M.A.T., Kent State University, 2003
  - Yoder, Kimberly A. (1988), Senior Lecturer, M.A., Kent State University, 1995
- ### Department of Geography Faculty
- Amey, Katherine S. (2009), Associate Professor, Ph.D., Kent State University, 2011
  - Assal, Timothy J. (2019), Assistant Professor, Ph.D., Colorado State University, 2015
  - Cromley, Gordon A. (2013), Assistant Professor, Ph.D., Kent State University, 2019
  - Haley, Mary Ann (1993), Assistant Professor
  - Kaplan, David H. (1995), Professor, Ph.D., University of Wisconsin, Madison, 1991
  - Lee, Jay (1991), Professor, Ph.D., University of Western Ontario, 1989
  - Lee, Cameron C. (2008), Assistant Professor, Ph.D., Kent State University, 2014
  - Mapes, Jennifer E. (2012), Associate Professor, Ph.D., University of Southern California, 2009
  - Munro-Stasiuk, Mandy (1999), Professor, Ph.D., University of Alberta, 1999
  - Parylak, Rebecca P. (2008), Associate Professor, Ph.D., Texas State University, San Marcos, 2010
  - Post, Christopher (2008), Associate Professor, Ph.D., University of Kansas, 2006
  - Schmidlin, Thomas W. (1985), Professor, Ph.D., Cornell University, 1984
  - Scholl, Andrew E. (2013), Assistant Professor, Ph.D., Penn State University, 2008
  - Sheridan, Scott C. (2000), Professor & Chair, Ph.D., University of Delaware, 2000
  - Smiley, Sarah L. (2010), Associate Professor, Ph.D., University of Kansas, 2007
  - Turner, Victoria K. (2013), Assistant Professor, Ph.D., Arizona State University, 2013
  - Tyner, James A. (1997), Professor, Ph.D., University of Southern California, 1995
  - Widner, Emariana S. (2009), Associate Professor, Ph.D., Texas State University, 2009
  - Ye, Xinyue (2013), Assistant Professor, Ph.D., San Diego State University, 2010
  - Yin, He (2019), Assistant Professor
- ### Department of Geology Faculty
- Chaudhary, Kuldeep (2017), Assistant Professor, Ph.D., University of Texas-Austin, 2013



- Clement, Susanne M. (1995), Associate Professor, Ph.D., Kent State University, 2005
- Hacker, David B. (1989), Professor, Ph.D., Kent State University, 1998
- Herndon, Elizabeth (2014), Assistant Professor
- Holm, Daniel K. (1992), Professor & Department Chair, Ph.D., Harvard University, 1992
- Jefferson, Anne (2012), Associate Professor, Ph.D., Oregon State University, 2006
- Ortiz, Joseph D. (2001), Professor, Ph.D., Oregon State University, 1995
- Rowan, Christopher (2013), Assistant Professor, Ph.D., University of Southampton, 2006
- Schweitzer, Carrie E. (1994), Professor, Ph.D., Kent State University, 2000
- Singer, David M. (2012), Associate Professor, Ph.D., Stanford University, 2008
- Singh, Kuldeep (2017), Assistant Professor, Ph.D., University of Texas at Austin, 2013
- Smith, Alison J. (1990), Professor & Dean, Ph.D., Brown University, 1991
- Taylor, Eric S. (2012), Associate Professor, Ph.D., The Ohio State University, 2012
- Wells, Neil A. (1984), Professor, Ph.D., University of Michigan, Ann Arbor, 1984
- Williams, Jeremy C. (2015), Assistant Professor, Ph.D., University of Massachusetts, Boston, 2014

## Department of History Faculty

- Adams, Kevin J. (2006), Associate Professor & Interim Chair, Ph.D., University of California, Berkeley, 2004
- Bindas, Kenneth J. (1995), Professor, Ph.D., University of Toledo, 1988
- Crawford, Matthew J. (2009), Associate Professor, Ph.D., University of California, San Diego, 2009
- Diacon, Todd A. (2012), Professor and President, Ph.D., University of Wisconsin, Madison, 1987
- Grahn, Lance R. (2015), Professor, Ph.D., Duke University, 1986
- Gruenwald, Kim M. (1995), Associate Professor, Ph.D., University of Colorado, Boulder, 1994
- Hartline, Todd A. (1992), Assistant Professor, Ph.D., Kent State University, 2006
- Hayashi, Brian M. (2016), Professor, Ph.D., University of California, Los Angeles, 1990
- Heaphy, Leslie A. (1995), Associate Professor, Ph.D., University of Toledo, 1995
- Heiss, Mary A. (1992), Associate Professor, Ph.D., The Ohio State University, 1991
- Hudson, Leonne M. (1983), Associate Professor, Ph.D., Kent State University, 1990
- Keefer, Bradley S. (1987), Associate Professor, Ph.D., Kent State University, 2006
- Li, Hongshan (1993), Professor, Ph.D., University of Missouri, Columbia, 1992
- Menning, Ralph R. (2006), Assistant Professor
- Parsons, Elaine (2017), Professor, Ph.D., Johns Hopkins University, 2000

- Scarnecchia, Timothy L. (2007), Associate Professor, Ph.D., University of Michigan, 1994
- Seelye, James E. (2010), Assistant Professor, Ph.D., University of Toledo, 2010
- Sergi, Molly M. (1991), Professor, Ph.D., Kent State University, 2015
- Smith, Elizabeth M. (2001), Associate Professor, Ph.D., Rutgers, The State University of New Jersey, 2001
- Starkey, Lindsay J. (2012), Assistant Professor, Ph.D., University of Wisconsin, Madison, 2012
- Steigmann-Gall, Richard A. (2000), Associate Professor, Ph.D., University of Toronto, 1999
- Strate, Shane (2013), Associate Professor, Ph.D., University of Wisconsin, Madison, 2009
- Thyret, Isolde R. (1994), Associate Professor, Ph.D., University of Washington, 1992
- Wamsley, Esther S. (2005), Assistant Professor, Ph.D., The Ohio State University, 1998

## Department of Mathematical Sciences Faculty

- Adams, Lynn (2007), Senior Lecturer, M.S., University of Akron, 2007
- Ahuja, Om P. (2000), Professor, Ph.D., University of Khartoum, 1981
- Alexopoulos, John K. (1994), Associate Professor, Ph.D., Kent State University, 1992
- Allouba, Hassan A. (2002), Associate Professor, Ph.D., Cornell University, 1996
- Altobelli, Joseph A. (1997), Associate Professor, Ph.D., The Ohio State University, 1996
- Andaloro, Paul J. (1994), Assistant Professor, Ph.D., The Ohio State University, 1989
- Andriyevskyy, Volodymyr (2000), Professor, Ph.D., Institute of Mathematics of Ukrainian Academy of Sciences, 1986
- Barb, Cynthia M. (1990), Associate Professor, Ph.D., Kent State University, 1997
- Chebotar, Mikhail (2006), Professor, Ph.D., Moscow State University, 1999
- Das, Lovejoy S. (1989), Professor, Ph.D., University of Lucknow, 1979
- Davidson, Morley A. (1996), Associate Professor, Ph.D., University of Michigan, 1995
- de la Cruz Cabrera, Omar (2016), Assistant Professor
- Del Pizzo, Lawrence F. (1969), Assistant Professor, M.A., Kent State University, 1969
- Dhaher, Yaser Y. (1989), Professor, Ph.D., Kent State University, 2007
- Di Alesandro, Jack J. (1983), Associate Lecturer, M.Ed., Kent State University, 1989
- Dinh, Hai Q. (2004), Professor, Ph.D., Ohio University, 2003
- Feng, Bao Q. (1996), Associate Professor, Ph.D., Kent State University, 2001
- Gagola, Stephen M. (1982), Professor, Ph.D., University of Wisconsin, Madison, 1974
- Gordon, Peter (2017), Associate Professor, Ph.D., Moscow University, 1999
- He, Min (1995), Professor
- Heinbach, Charles C. (1978), Senior Lecturer, B.A., Kent State University, 1977
- Hovhannisyan, Gro (2003), Professor, Ph.D., Yerevan State University, 1990

- Hrubik-Vulanovic, Tatjana (2002), Assistant Professor, Ph.D., Kent State University, 2013
- Jahangiri, Jay M. (1994), Professor, Ph.D., University of York, 1986
- Kasturiarachi, Aloysius Bathi B. (1995), Associate Professor
- Khan, Mohammad K. (1981), Professor, Ph.D., Case Western Reserve University, 1980
- Kover, Janice S. (1996), Associate Professor, Ph.D., Kent State University, 2001
- Kracht, Darci L. (1984), Professor, Ph.D., Kent State University, 2011
- Kratky, Joseph J. (2005), Lecturer, M.S., Kent State University, 2011
- Laux, Tracy A. (1990), Senior Lecturer, B.S., Kent State University, 1990
- Lewis, Mark L. (1996), Professor, Ph.D., University of Wisconsin, Madison, 1995
- Li, Jing (2003), Associate Professor, Ph.D., New York University, 2002
- Li, Jun (2013), Associate Professor, Ph.D., Iowa State University, 2013
- Lochmueller, Kerri K. (2005), Lecturer, M.S., Youngstown State University, 2008
- Meyer, Lorree L. (1994), Associate Lecturer, B.S., Kent State University, 1993
- Mikusa, Michael (1987), Associate Professor, Ph.D., Kent State University, 1993
- Mocioalca, Oana (2004), Associate Professor, Ph.D., University of Florida, 2002
- Muckridge, Nicole A. (2007), Associate Professor, Ph.D., Kent State University, 2017
- Mulqueeny, Ellen S. (2005), Associate Professor, M.S., Cleveland State University, 1993
- Najafi, Mahmoud (1995), Professor, Ph.D., Wichita State University, 1994
- Nazarov, Fedor L. (2011), Professor
- Osikiewicz, Beth-Allyn (1994), Associate Professor, Ph.D., Kent State University, 2000
- Osikiewicz, Jeffrey A. (1990), Associate Professor, Ph.D., Kent State University, 1997
- Palocyi, Frank J. (1991), Lecturer
- Perera, Vicumpriya S. (1998), Associate Professor, Ph.D., Purdue University, 1993
- Pham, Tuyet D. (1988), Senior Lecturer, M.S., University of Akron, 1988
- Polanski, Teresa S. (1987), Senior Lecturer, M.A.T., Kent State University, 1994
- Rajagopal, Parthasarathy (1987), Assistant Professor, Ph.D.
- Rajaram, Rajeev (2008), Associate Professor, Ph.D., Iowa State University, 2005
- Reed, Beverly M. (1986), Professor, Ph.D., Kent State University, 2007
- Reichel, Lothar (1991), Professor, Ph.D., University of Stockholm, 1982
- Ruchotzke, Randy L. (1994), Lecturer, M.A., Iowa State University, 1986
- Ruff, Oliver (2009), Associate Professor, Ph.D., University of Oregon, 2002
- Ryabogin, Dmitry (2007), Professor, Ph.D., University of Jerusalem, 2001
- Sharp, Mary Theresa L. (1997), Associate Professor, Ph.D., Kent State University, 2014
- Smithies, Laura A. (1997), Associate Professor, Ph.D., University of Utah, 1997
- Soprunova, Evgenia (2007), Associate Professor, Ph.D., University of Toronto, 2002
- Stadden, Jared M. (2013), Lecturer, M.B.A., Kent State University, 2012
- Taha, Nader F. (1990), Associate Lecturer, M.S., Tennessee State University, 1989
- Tonge, Andrew M. (1985), Professor & Department Chair, Ph.D., University of Cambridge, 1976
- Trehan, Dawn M. (2019), Assistant Professor, M.S., Case Western Reserve, 1996
- Tsai, Tsung-Heng (2019), Assistant Professor
- Vezvaei, Mahbobeh (1983), Professor, Ph.D., Case Western Reserve University, 1987
- Vorhauer, Ulrike M. (2001), Associate Professor, Ph.D., University of Ulm, 1996
- Vulanovic, Relja (1992), Professor, Ph.D., University of Novi Sad, 1986
- Wakita, Hideki (1998), Senior Lecturer, M.A., Kent State University, 2002
- Wallach, Tracy A. (1984), Senior Lecturer, M.Ed., Kent State University, 1989
- Wei, Zhaoting (2016), Assistant Professor, Ph.D., University Of Pennsylvania, 2013
- White, Donald L. (1989), Professor, Ph.D., Yale University, 1987
- Wright, Brian M. (1998), Associate Professor, Ph.D., Kent State University, 2007
- Yu, Gang (2006), Associate Professor, Ed.D., University of Georgia, 2000
- Zheng, Xiaoyu (2006), Associate Professor, Ph.D., University of North Carolina, Chapel Hill, 2006
- Zvavitch, Artem (2004), Professor, Ph.D., Weizmann Institute of Science, 2002

## Department of Modern and Classical Language Studies Faculty

- Angelone, Erik (2007), Associate Professor, Ph.D., University of Heidelberg, 2006
- Baer, Brian J. (1996), Professor, Ph.D., Yale University, 1996
- Bell, Sharon M. (1990), Assistant Professor, Ph.D., Brown University, 1987
- Berrong, Richard M. (1985), Professor, Ph.D., Cornell University, 1977
- Bilali, Loubna (2008), Assistant Professor
- Brett-Paez, Maria C. (2009), Lecturer, M.A., Kent State University, 2013
- Bystrova-McIntyre, Tatyana (2002), Associate Professor, Ph.D., Kent State University, 2012
- Carduner, Jessie (1998), Associate Professor, Ph.D., University of Pittsburgh, 1998
- Carl, Michael (2018), Professor
- Castaneda-Vise, Daniel A. (2007), Associate Professor, Ph.D., West Virginia University, 2007
- Chism, Rebecca L. (1999), Associate Professor, Ph.D., Florida State University, 2000
- De Julio, MaryAnn (1986), Professor, Ph.D., University of Iowa, 1979
- Dunne, Keiran J. (2000), Professor & Department Chair, Ph.D., Pennsylvania State University, 2000
- Dzero, Irina (2010), Assistant Professor
- Ehrman, Radd K. (1982), Professor, Ph.D., University of Illinois-Chicago, 1982

- Fatchet-McGee, Lori L. (1995), Associate Lecturer, M.A., Kent State University, 1997
- Gallagher, Patrick L. (2001), Associate Professor, Ph.D., University of Iowa, 1997
- Gee, Jacqueline L. (2009), Lecturer, M.Ed., Kent State University, 2016
- Hall, Jennifer E. (2008), Lecturer, M.Ed., University of Akron, 2015
- Harvey, Brian K. (1999), Associate Professor, Ph.D., University of Michigan, Ann Arbor, 1998
- Harvey, Sarah M. (2001), Professor, Ph.D., University of Michigan, Ann Arbor, 1999
- Hermosilla, Luis G. (1994), Associate Professor, Ph.D., The Ohio State University, 1994
- Hogue, Randall L. (2012), Associate Professor, Ph.D., Gallaudet University, 2011
- Koby, Geoffrey S. (1994), Professor, Ph.D., University of Wisconsin, Madison, 1992
- Lacruz, Isabel (1998), Associate Professor, Ph.D., Kent State University, 2005
- Larson, Jennifer L. (1992), Professor, Ph.D., University of Wisconsin-Madison, 1992
- Libbon, Stephanie E. (2002), Associate Professor, Ph.D., The Ohio State University, 2000
- Massardier-Kenney, Françoise M. (1988), Professor, Ph.D., Kent State University, 1986
- McGee, Lori L. (1995), Associate Lecturer, M.A., Kent State University, 1997
- Nehring, Lawrence J. (2008), Associate Lecturer, M.S., University of Rochester, 1991
- Rivera, Olga I. (1999), Professor, Ph.D., The Ohio State University, 1998
- Romero-Gonzalez, Mariana (2009), Associate Lecturer, M.A., Kent State University, 2012
- Rossoll, Hildegard M. (1988), Associate Professor, Ph.D., Washington University in St. Louis, 1991
- Sato, Paula K. (2009), Associate Professor
- Shiyab, Said M. (2014), Professor
- Shuman, Mason P. (2005), Associate Lecturer, M.A., Kent State University, 2006
- Siciarz, Stephanie J. (2012), Lecturer, M.A., Johns Hopkins University, 2007
- Stasiowski, Kristin (2013), Assistant Professor & Assistant Dean
- Subak, Leah L. (1994), Assistant Professor
- Talentino, Kimberly L. (2007), Associate Lecturer, M.A., Kent State University, 1991
- Tanaka, Eriko (2010), Associate Lecturer, M.A., Bowling Green State University, 2001
- Trzeciak Huss, Joanna (2006), Associate Professor
- Vickery, Steve C. (1997), Lecturer, B.A., Kent State University, 1998
- Wakabayashi, Judy F. (2002), Professor, Ph.D., University of Southern Queensland, 1993
- Washbourne, Richard K. (2003), Professor, Ph.D., University of Massachusetts-Amherst, 2002
- Yu, Hui (2012), Associate Lecturer
- Zaldivar, Maria E. (2007), Professor, Ph.D., Pennsylvania State University, 1991

## Department of Pan-African Studies Faculty

- Crawford, Charmaine M. (2019), Associate Professor
- Gooden, Amoaba (2006), Associate Professor & Department Chair, Ph.D., Temple University, 2005
- Kumah-Abiwu, Felix (2015), Assistant Professor
- Okantah, Mwatabu S. (1991), Associate Professor, B.A., Kent State University, 1976
- Sunni-Ali, Asantewa (2016), Assistant Professor
- Syed, Idris K. (1991), Associate Professor, M.Ed., Kent State University, 2001
- Temu, M.L. Nambuo (1974), Assistant Professor, Ph.D., Kent State University, 1976
- Williams, Christopher Y. (1970), Associate Professor, Ph.D., Kent State University, 1976

## Department of Philosophy Faculty

- Aldea, Andreea S. (2017), Assistant Professor, Ph.D., Emory University, 2012
- Barnbaum, Deborah R. (1997), Professor, Ph.D., University of Massachusetts, Amherst, 1996
- Byron, B. Michael (1997), Professor & Chairperson, Ph.D., University of Notre Dame, 1996
- Fernandez, Anthony (2017), Assistant Professor, Ph.D., University of South Florida, 2016
- Garchar, Kimberly K. (2008), Associate Professor, Ph.D., University of Oregon, 2006
- Ikuenobe, Polycarp A. (1997), Professor, Ph.D., Wayne State University, 1993
- Kim, Jung-Yeup (2008), Associate Professor, Ph.D., University of Hawaii-Manoa, 2008
- Norton-Smith, Thomas M. , Professor & Interim Assistant Dean
- Odell-Scott, David W. (1990), Professor & Associate Dean, Ph.D., Vanderbilt University, 1989
- Palmer, Daniel E. (2001), Associate Professor & Interim Dean, Ph.D., Purdue University, 2000
- Pereplyotchik, David (2013), Associate Professor, Ph.D., City University of New York Graduate Center, 2012
- Ryan, Frank X. (1997), Associate Professor, Ph.D., Emory University, 1996
- Smith, Deborah C. (1997), Professor, Ph.D., University of Washington, 2003
- Uher, Clarence G. (1993), Associate Lecturer, M.A., Cleveland State University, 1991
- Zavota, Gina (2003), Associate Professor, Ph.D., State University of New York-Stony Brook, 2003

## Department of Physics Faculty

- Almasan, Carmen C. (1995), Professor, Ph.D., University of South Carolina, 1989
- Antocheviz Dexheimer Strickland, Veronica A. (2013), Assistant Professor, Ph.D., Goethe Universität, 2009
- Balci, Hamza (2009), Associate Professor, Ph.D., University of Maryland, 2004
- Barrick, John M. (1988), Associate Lecturer, Ed.S., Kent State University, 1988

- Cheng, Haw (2018), Assistant Professor, Ph.D., University of North Carolina, Chapel Hill, 2014
- Driscoll, Donald D. (2007), Associate Professor, Ph.D., Case Western Reserve University, 2004
- Dzero, Maxim (2010), Associate Professor
- Ellman, Brett D. (1997), Associate Professor, Ph.D., University of Chicago, 1993
- Fregoso, Benjamin (2017), Assistant Professor
- Gleeson, James T. (1997), Professor & Department Chair, Ph.D., Kent State University, 1991
- Katramatou, A. Mina T. (1996), Professor, Ph.D., American University, 1988
- Keane, Declan F. (1988), Professor, Ph.D., University College of Dublin
- Lavrentovich, Oleg D. (1992), Trustees Research Professor, Kiev University, 1990
- Li, Ran (2007), Associate Professor, Ph.D., Southern Illinois University, Carbondale, 2007
- Lussem, Bjorn (2014), Associate Professor
- Manley, D.M. (1986), Professor, Ph.D., University of Wyoming, 1981
- Mann, Elizabeth K. (1998), Professor, Ph.D., University of Paris, 1992
- Margetis, Spyridon (1997), Professor, Ph.D., Goethe Universitat, 1991
- Minnick, Stephen A. (2003), Professor & Assistant Dean, Ph.D., Pennsylvania State University, 2003
- Montgomery, Timothy E. (1985), Associate Lecturer
- Petratos, Gerassimos G. (1994), Professor, Ph.D., American University, 1988
- Portman, John J. (2003), Professor, Ph.D., University of Illinois, Urbana, 2000
- Quader, Khandker F. (1990), Professor, Ph.D., State University of New York-Stony Brook, 1983
- Schmidt, Thorsten-Lars (2019), Assistant Professor
- Schroeder, Almut (2001), Associate Professor
- Secaur, Jonathan M. (1980), Associate Professor, Ph.D., Kent State University, 1994
- Selinger, Jonathan V. (2005), Professor, Ph.D., Harvard College, 1989
- Selinger, Robin L. (2005), Professor, Ph.D., Harvard College, 1989
- Sprunt, Samuel N. (1995), Professor, Ph.D., Massachusetts Institute of Technology, 1989
- Strickland, Michael (2013), Professor, Ph.D., Duke University, 1997
- Vanfossen, Joseph A. (2004), Assistant Professor
- Wei, Qi-Huo (2006), Professor
- Yang, Deng-Ke (1989), Professor, Ph.D., University of Hawaii at Manoa, 1989
- Yokoyama, Hiroshi (2009), Professor, Ph.D., Tokyo International University, 1987
- Carbonell, Joel R. (2007), Associate Professor, Ph.D., University of California, Riverside, 2007
- Cassell, Mark K. (1998), Professor, Ph.D., University of Wisconsin, Madison, 1998
- Chand, Daniel E. (2016), Associate Professor
- Claassen, Ryan L. (2005), Professor, Ph.D., University of California-Davis, 2005
- Ensley, Michael J. (2009), Associate Professor, Ph.D., Duke University, 2002
- Hawes, Daniel P. (2008), Associate Professor, Ph.D., Texas A&M University, Main Campus, 2008
- Mazzei, Julie M. (2004), Associate Professor, Ph.D., American University, 2006
- Molina, Anthony D. (2013), Associate Professor & Interim Chair, Ph.D., Cleveland State University, 2004
- Nickels, Ashley E. (2016), Assistant Professor
- Paar-Jakli, Gabriella (1991), Assistant Professor, Ph.D., Kent State University, 2010
- Robyn, Richard C. (1994), Associate Professor, Ph.D., Kent State University, 2000
- Stacher, Joshua A. (2008), Associate Professor
- Sykes, Vernon L. (2001), Associate Professor, Ph.D., University of Akron, 2001

## Department of Psychological Sciences Faculty

- Bartholomew, Christie L. (2003), Assistant Professor, Ph.D., Kent State University, 2014
- Ben-Porath, Yossef S. (1990), Professor, Ph.D., University of Minnesota, Twin Cities, 1989
- Betz, Brian D. (1991), Associate Professor, Ph.D., Ohio University, 1987
- Blasiman, Rachael N. (2010), Associate Professor, Ph.D., Case Western Reserve University, 2010
- Ciesla, Jeffrey (2007), Associate Professor, Ph.D., University at Albany, SUNY, 2004
- Ciesla, Shannon N. (2007), Assistant Professor, Ph.D., Kent State University, 2013
- Coifman, Karin G. (2010), Associate Professor, Ph.D., Columbia University, 2008
- Cremeans-Smith, Julie K. (1998), Associate Professor, Ph.D., Kent State University, 2004
- DeCapito, Alberta L. (1985), Senior Lecturer
- Dunlosky, John T. (2004), Professor, Ph.D., University of Washington, 1993
- Evey, Julie A. (2018), Assistant Professor, Ph.D., Kent State University, 1998
- Flessner, Christopher A. (2011), Associate Professor, Ph.D., University of Wisconsin, Milwaukee, 2008
- Folk, Jocelyn R. (1999), Associate Professor, Ph.D., University of South Carolina, Columbia, 1997
- Fountain, Stephen B. (1984), Professor, Ph.D., The Johns Hopkins University, 1981
- Fox-Cardamone, Donna L. (1994), Professor, Ph.D., Miami University, 1990
- Fresco, David M. (2001), Professor, Ph.D., University of North Carolina, Chapel Hill, 1999

## Department of Political Science Faculty

- Banks, Christopher P. (2006), Professor, Ph.D., University of Virginia, 1995
- Barnes, Andrew S. (2001), Associate Professor, Ph.D., Princeton University, 1999
- Bhungalia, Lisa (2017), Assistant Professor, Ph.D., Syracuse University, 2013
- Boyd-Swan, Casey (2015), Assistant Professor, Ph.D., Arizona State University, 2015



- Galati, Ashley R. (2013), Associate Professor, Ph.D., University of Kentucky, 2013
- Gere, Judith (2013), Associate Professor
- Grau, Josefina M. (1994), Associate Professor, Ph.D., University of Illinois, Chicago, 1992
- Gunstad, John J. (2005), Professor, Ph.D., Ohio University, 2002
- Himmelstein, Mary S. (2019), Assistant Professor
- Hughes, Joel W. (2003), Professor, Ph.D., The Ohio State University, 2001
- Jasnow, Aaron (2011), Associate Professor, Ph.D., Georgia State University, 2002
- Jones, Bryan A. (2010), Associate Professor, Ph.D., State University of New York, Stony Brook, 2007
- Joynes, Robin L. (2000), Associate Professor, Ph.D., Texas A&M University, Main Campus, 1998
- Keiller, Scott W. (1989), Assistant Professor, Ph.D., Kent State University, 1997
- Larwin, David A. (1985), Senior Lecturer, M.A., Kent State University, 1989
- Lechner, William (2017), Assistant Professor, Ph.D., Oklahoma State University, 2015
- Merriman, William E. (1985), Professor, Ph.D., University of Minnesota, Twin Cities, 1984
- Miller, Eric D. (1999), Associate Professor, Ph.D., University of Iowa, 1999
- Moore, Zachariah (2003), Assistant Professor, Ph.D., Kent State University, 2006
- Neal-Barnett, Angela M. (1989), Professor, Ph.D., DePaul University, 1988
- Rawson, Katherine A. (2004), Professor, Ph.D., University of Colorado, Boulder, 2004
- Sato, Amy F. (2012), Associate Professor, Ph.D., University of Wisconsin, Milwaukee, 2009
- Sciartelli, Sharon M. (2007), Professor, Ph.D., Kent State University, 1995
- Sefcek, Jon A. (2011), Associate Professor, Ph.D., University of Arizona, 2007
- Shepherd, James B. (1986), Assistant Professor, Ph.D., Kent State University, 1996
- Spitznagel, Mary Beth (2009), Associate Professor, Ph.D., Ohio University, 2003
- Tabak, Melanie A. (2003), Assistant Professor, Ph.D., Kent State University, 2008
- Taber, Jennifer M. (2016), Assistant Professor
- Thompson, Clarissa A. (2014), Associate Professor, Ph.D., The Ohio State University, 2008
- Tkacz, Sharon (1993), Associate Professor, Ph.D., Bowling Green State University, 1981
- Tomich, Patricia L. (1994), Associate Professor, Ph.D., Kent State University, 2000
- Updegraff, Alanna S. (2012), Associate Professor, Ph.D., University of California, Los Angeles, 2003
- Updegraff, John A. (2004), Professor, Ph.D., University of California, Los Angeles, 2002
- Van Dulmen, Manfred H. (2004), Professor & Interim Associate Provost, Ph.D., University of Minnesota, Twin Cities, 2001
- Was, Christopher A. (2005), Associate Professor, Ph.D., University of Utah, 2005
- Weigold, Arne (2019), Associate Professor, Ph.D., Texas Tech University, 2008
- Wildman, Beth G. (1982), Professor, Ph.D., University of North Carolina, Chapel Hill, 1977
- Zaragoza, Maria S. (1984), Professor & Department Chair, Ph.D., Johns Hopkins University, 1984

## Department of Sociology Faculty

- Adams, Richard E. (2007), Professor & Chair, Ph.D., Indiana University, Bloomington, 1989
- Berard, Timothy J. (2002), Associate Professor, Ph.D., Boston University, 2001
- Bergin, Tiffany (2013), Assistant Professor, Ph.D., University of Cambridge, 2011
- Bloch, Katrina R. (2008), Associate Professor, Ph.D., North Carolina State University, 2009
- Callanan, Valerie (2005), Professor
- Campbell, Beth A. (2005), Professor, Ph.D., University of Akron, 2018
- Catto, Rebecca (2016), Assistant Professor
- Chopko, Brian A. (2007), Professor, Ph.D., University of Akron, 2007
- Drinkard, Allyson M. (2000), Assistant Professor, Ph.D., Kent State University, 2012
- Drum, Marna C. (2003), Senior Lecturer, M.A., University of Akron, 1994
- Dum, Christopher (2014), Assistant Professor, Ph.D., University at Albany, SUNY, 2014
- Fisk, Susan R. (2015), Assistant Professor, Ph.D., Stanford University, 2015
- Foster, Michelle L. (2010), Assistant Professor, M.A., Kent State University, 2011
- Gallagher, Mary N. (2001), Associate Professor, Ph.D., Kent State University, 2012
- Gibson, Gregory C. (2012), Associate Professor, Ph.D., Purdue University, 2008
- Globokar, Julie L. (2011), Associate Professor, University of Illinois at Chicago
- Goar, Carla D. (2010), Associate Professor, Ph.D., Texas A&M University, 2000
- Graff, David R. (1994), Senior Lecturer, M.S., Mercyhurst College, 1984
- Haas, Anne E. (1996), Associate Professor, Ph.D., The Ohio State University, 2005
- Jones, Adrian M. (2001), Associate Professor, Ph.D., Kent State University, 2002
- Kalkhoff, William W. (2002), Professor, Ph.D., University of Iowa, 2002
- Kessler, David A. (1995), Associate Professor, Ph.D., Indiana University
- Kunkle, Susan M. (2004), Associate Professor, Ph.D., Kent State University, 2011
- Leveto, Jessica A. (2005), Associate Professor, Ph.D., Kent State University, 2012
- Licuanan-Galela, Maria N. (1995), Associate Professor, Ph.D., University of Illinois, Urbana-Champaign, 1995
- Lowery, Allen (2014), Assistant Professor
- Marcussen, Kristen A. (2000), Associate Professor, Ph.D., University of Iowa, 2000



- Matriacovo, Paul A. (1982), Senior Lecturer, J.D., University of Akron, 1978
- Nasheri, Hedieh (1990), Professor
- Owens, Timothy J. (2010), Professor, Ph.D., University of Minnesota-Twin Cities, 1988
- Pai, Manacy (2008), Associate Professor, Ph.D., Florida State University, 2008
- Pollock, Joshua W. (2014), Assistant Professor, Ph.D., University of Akron, 2014
- Purifoye, Gwendolyn (2014), Assistant Professor, Ph.D., Loyola University Chicago, 2014
- Rawlings, Lynette M. (2007), Senior Lecturer, M.P.A., Kent State University, 2006
- Ray, Kasey (2015), Assistant Professor, Ph.D., University of Akron, 2015
- Robinson, Kristenne M. (2019), Assistant Professor
- Rose, Lydia (2010), Assistant Professor, Ph.D., Purdue University, 1997
- Rose, Norman R. (2007), Associate Professor
- Roxburgh, Susan J. (1994), Professor
- Schiller, J. Zach (2006), Assistant Professor, Ph.D., University of California, Davis, 2005
- Shura, Robin A. (2018), Assistant Professor, Ph.D., Case Western Reserve, 2010
- Solomon, Starr (2018), Assistant Professor, Ph.D., University of Nebraska Omaha, 2018
- Spates, Kamesha (2013), Assistant Professor, Ph.D., Texas A&M University, Corpus Christi, 2009
- Stacey, Clare L. (2006), Associate Professor, Ph.D., University of California, Davis, 2004
- Taylor, Tiffany L. (2008), Associate Professor, Ph.D., North Carolina State University at Raleigh, 2008
- Tontodonato, Pamela (1987), Associate Professor, Ph.D., University of Pennsylvania, 1986
- Vander Horst, Anthony (2011), Associate Professor, The Ohio State University, 2012
- Warren, Deirdre M. (2009), Associate Professor, Ph.D., Sam Houston State University, 2009
- Wilson, Mary G. (1998), Associate Professor, Ph.D., Kent State University, 2010

### **School of Peace and Conflict Studies Faculty**

- Arai, Tatsushi (2019), Associate Professor
- Bleak, Jacquelyn K. (2014), Lecturer, M.S., George Mason University, 2012
- Cunningham, Karen D. (1990), Professor, J.D., Washington and Lee University, 1986
- Hancock, Landon E. (2006), Professor, Ph.D., George Mason University, 2003
- Koopman, Sara (2017), Assistant Professor, Ph.D., University of British Columbia, 2012
- Solomon, Johanna A. (2017), Assistant Professor

## **College of Business Administration Faculty**

### **Department of Accounting Faculty**

- Alam, Pervaiz (1985), Professor, Ph.D, University of Houston, Downtown, 1984
- Altieri, Mark P. (1992), Professor, L.L.M., New York University, 1982
- Bolchalk, James R. (2006), Associate Professor, Ph.D., University of Akron, 1996
- Buchanan, Jessica (2017), Assistant Professor, Ph.D., University of Massachusetts Amherst, 2017
- Fang, Shunlan (2014), Assistant Professor, Ph.D., Temple University, 2013
- Gletsu, David C. (2019), Lecturer
- Laksmana, Indrarini V. (2004), Associate Professor, Ph.D., Georgia State University, 2004
- Li, Wei (2006), Associate Professor & Department Chair, M.B.A., Washington State University, 2001
- Nett, Malinda B. (2009), Assistant Professor, M.Tax., University of Akron, 1995
- Nett, Malinda B. (2009), Assistant Professor
- Rose, John M. (2003), Associate Lecturer, M.B.A., Kent State University, 1994
- Sellers, R. Drew (2011), Associate Professor, D.M., Case Western Reserve University, 2008
- Tietz, Wendy M. (2000), Professor, Ph.D., Kent State University, 2007

### **Department of Economics Faculty**

- Bagheri, Omid (2017), Assistant Professor, Ph.D., Virginia Polytechnic Institute and State University, 2017
- Barnette, Justin (2011), Assistant Professor, Ph.D., University of Minnesota, Twin Cities, 2012
- Dechenaux, Emmanuel (2004), Professor, Ph.D., Purdue University, 2004
- ElBahnasawy, Nasr G. (2007), Associate Professor, Ph.D., Colorado State University, 2008
- Ellis, Michael A. (1990), Professor, Ph.D., Texas A&M University, Main Campus, 1991
- Engelhardt, Lucas M. (2010), Associate Professor, Ph.D., The Ohio State University, 2010
- Greenhalgh-Stanley, Nadia (2009), Associate Professor, Ph.D., Syracuse University, 2009
- Harris, Jeremiah R. (2014), Assistant Professor, Ph.D., Purdue University, 2014
- Hayduk, Iryna (2014), Assistant Professor, Ph.D., University of Houston, 2014
- Johnson, Eric D. (2005), Associate Professor, Ph.D., University of California, San Diego, 1997
- Kang, Wensheng (2009), Associate Professor, Ph.D., University of Missouri, 2009
- Kocher, Brett (2019), Assistant Professor, Ph.D., Claremont Graduate School, 2019
- Leontieva, Ludmila (2007), Assistant Professor
- Liu, Dandan (2008), Associate Professor, Ph.D., Texas A&M University, Main Campus, 2005

- Mukherjee, Deepraj (2012), Associate Professor, Ph.D., University of Memphis, 2010
- Park, Jooyoun (2009), Associate Professor, Ph.D., University of Michigan, 2009
- Reynolds, Curtis (2007), Associate Professor, Ph.D., University of Michigan, 2007
- Rohlin, Shawn M. (2012), Associate Professor & Director
- Sahajdack, Thomas (2016), Assistant Professor, Ph.D., University of Illinois, 2016
- Shaeye, Abdihafit (2018), Assistant Professor, Ph.D., University of Wisconsin, Milwaukee, 2017
- Williams, Donald R. , Professor & Chair, Ph.D., Northwestern University, 1984
- Wilson, Kathryn S. (1996), Professor & Chair, Ph.D., University of Wisconsin, Madison, 1996

## Department of Finance Faculty

- Baran, Lindsay C. (2011), Associate Professor, Ph.D., University of North Carolina, Charlotte, 2010
- Beier, Lois J. (1985), Associate Professor, J.D., University of Akron, 1980
- Billik, William M. (2009), Assistant Professor
- Deng, Saiying (2019), Associate Professor
- Dennis, Steven A. (2014), Professor & Department Chair, Ph.D., University of Kentucky, 1993
- Pelleg, David S. (2018), Lecturer
- Pu, Xiaoling X. (2008), Associate Professor, Ph.D., University of Massachusetts, Amherst, 2008
- Shynkevich, Andrei (2009), Associate Professor, Ph.D., Louisiana State University, 2009
- Via, Marc (2014), Assistant Professor, Ph.D., University of Alabama, 2014

## Department of Management Information Systems Faculty

- Akpan, Ikpe A. (2012), Associate Professor, Ph.D., Lancaster University, 2006
- Arikan, Asli M. (2014), Assistant Professor, Ph.D., The Ohio State University, 2004
- Arikan, Ilgaz (2014), Assistant Professor
- Berardi, Victor L. (1993), Associate Professor, Ph.D., Kent State University, 1998
- Blundell, Gregory E. (2001), Professor, Ph.D., Kent State University, 2015
- Brandyberry, Alan A. (2000), Associate Professor, D.B.A., Southern Illinois University, Carbondale, 1995
- Datta, Pratim (2007), Associate Professor, Ph.D., Louisiana State University, 2003
- Derubertis, Diane E. (2008), Lecturer, M.Ed., Kent State University, 1983
- Dragan, Natalia (2003), Assistant Professor, Ph.D., Kent State University, 2010
- Dubois, Cathy L. (1992), Associate Professor & Associate Dean, Ph.D., University of Minnesota, Twin Cities, 1991
- Duchon, Michael S. (2000), Assistant Professor, Ed.D., Nova Southeastern University, 2012

- Gomez, Claudia (2013), Associate Professor, Ph.D., New Mexico State University, 2012
- Hodeghatta, Umesh (2019), Associate Professor
- Hogue, Mary B. (2001), Professor, Ph.D., University of Akron, 2000
- Knapp, Deborah K. (1992), Associate Professor, Ph.D., Kent State University, 1994
- Kwak, Dong-Heon (2014), Assistant Professor, Ph.D., University of Wisconsin, Milwaukee, 2014
- Landingham, Velvet L. (2004), Associate Professor, Ph.D., Case Western Reserve University, 2004
- Levashina, Julia (2008), Associate Professor, Ph.D., Purdue University, 2005
- Offodile, Onyebuchi F. (1988), Professor & Department Chair, Ph.D., Texas Tech University, 1984
- Patuwo, Eddy B. (1988), Professor, Ph.D., Virginia Polytechnic Institute and State University, 1989
- Polites, Greta L. (2012), Associate Professor
- Porr, Dean A. (2004), Associate Professor, Ph.D., Regent University, 2004
- Razavi, Rouzbeh (2017), Assistant Professor, Ph.D., University of Essex, 2008
- Riczo, Steve (2014), Lecturer, M.H.A., Xavier University, 1982
- Shanker, Murali S. (1990), Professor
- Steinberg, Geoffrey (1991), Associate Professor, Ph.D., Temple University, 1991
- Vaneet, Vaneet (2019), Assistant Professor, Ph.D., University of Jammu, 2018
- Whitmore, Mark D. (2011), Assistant Professor, Ph.D., The Ohio State University, 1985
- Wu, Chaojiang (2019), Assistant Professor, Ph.D., University of Cincinnati, 2013

## Department of Marketing and Entrepreneurship Faculty

- Bridges, Eileen (1994), Professor, Ph.D., Northwestern University, 1987
- Daniels, Ellen P. (1981), Associate Lecturer, M.B.A., Baldwin-Wallace College, 1979
- Easterling, Denise M. (2009), Lecturer, M.B.A., Ashland University, 2006
- Grimm, Pamela E. (1992), Professor, Ph.D., State University of New York, Buffalo, 1993
- Groening, Christopher (2013), Associate Professor
- Heidler, Mary R. (2011), Associate Lecturer, M.B.A., American University, 1995
- Hisrich, Robert D. (2015), Professor & Director, Ph.D., University of Cincinnati, 1971
- Howell, William P. (1986), Associate Professor, Ph.D., Kent State University, 1996
- Hsieh, Meng-Hua (2018), Assistant Professor, Ph.D., University of Washington, 2013
- Jewell, Robert D. (2004), Professor & Department Chair, Ph.D., Ohio University, 1999
- Knapp-Blay, Kelly A. (2016), Lecturer, Bowling Green State University, 1997
- Lee, Denise M. (2009), Associate Lecturer, M.B.A., Ashland University, 2006
- Liu, Kun (2018), Assistant Professor

- Marks, Lawrence J. (1986), Professor
- Mayo, Michael A. (1985), Professor
- Mohammadi Darani, Milad (2019), Assistant Professor, Ph.D., Texas A&M University, Main Camp, 2019
- Sokira, Walter J. (2003), Lecturer, M.B.A., Kent State University, 1991
- Stettler, Tatiana R. (2015), Assistant Professor, Ph.D., University of Bern, 2014
- Thacker, Donald (1998), Senior Lecturer, M.B.A., Kent State University, 1996
- Wang, Tuo (2004), Associate Professor, Ph.D., University of Pittsburgh, 2004
- Wiggins-Lyndall, Jennifer A. (2006), Associate Professor, Ph.D., University of Wisconsin, Madison, 2006
- Zourrig, Haithem (2016), Assistant Professor, Ph.D., University of Montreal, 2010
- Ponder, James D. (2007), Assistant Professor, Ph.D., Kent State University, 2012
- Sharma, Rekha (2000), Associate Professor, M.A., Kent State University, 2004
- Silva, David E. (2019), Assistant Professor
- Sommer, Paul (2015), Assistant Professor, Ph.D., Texas A&M University, Main Campus, 2016
- Toumi, Ikram (2017), Assistant Professor, Ph.D., University of Texas at Austin, 2016
- Waite, Lisa A. (1991), Senior Lecturer, M.A., University of Akron, 1985
- Workneh, Tewodros (2016), Assistant Professor, Ph.D., University of Oregon, 2014

## College of Communication and Information Faculty

### School of Communication Studies Faculty

- Bacue, Aaron E. (2015), Associate Lecturer, M.A., University of Delaware, 1999
- Beam, Michael A. (2014), Associate Professor, Ph.D., The Ohio State University, 2012
- Bentley, Laurie S. (1994), Associate Lecturer, M.A., Kent State University, 1996
- Bihn-Coss, Ginger F. (2014), Assistant Professor, Ph.D., Bowling Green State University, 2003
- Cai, Bei (2002), Associate Professor
- Child, Jeffrey T. (2007), Professor, Ph.D., North Dakota State University, 2007
- Choi, Mina (2019), Assistant Professor, Ph.D., University of Wisconsin, Milwaukee, 2014
- Compton, Cristin (2017), Assistant Professor, Ph.D., University of Missouri-Columbia, 2016
- D'Enbeau, Suzy M. (2013), Associate Professor, Ph.D., Purdue University, 2009
- Dillon, Patrick J. (2016), Assistant Professor
- Egbert-Scheibelhoffer, Nichole L. (2000), Professor, Ph.D., University of Georgia, 2000
- Goodall, Catherine E. (2009), Associate Professor, Ph.D., The Ohio State University, 2009
- Graham, Elizabeth E. (2016), Professor & School Director, Ph.D., Kent State University, 1987
- Haridakis, Paul M. (1996), Professor, Ph.D., Kent State University, 2000
- Hollenbaugh, Erin E. (2003), Associate Professor, Ph.D., Kent State University, 2008
- Kaptan, Yesim (2016), Assistant Professor, Ph.D., Indiana University, 2010
- Lin, Mei-Chen (2003), Associate Professor, Ph.D., University of Kansas, 2003
- McCullough, Jennifer L. (2010), Assistant Professor, Ph.D., The Ohio State University, 2007
- Meyer, Janet R. (1998), Associate Professor, Ph.D., University of Michigan, 1989

### School of Information Faculty

- Albright, Kendra S. , Professor & School Director
- Boon, Belinda (2006), Associate Professor, Ph.D., University of Texas, Austin, 2006
- Campana, Kathleen (2017), Assistant Professor, Ph.D., University of Washington, 2018
- Gracy, Karen (2007), Associate Professor, Ph.D., University of California, Los Angeles, 2001
- Hajibayova, Lala (2014), Assistant Professor, Ph.D., Indiana University, Bloomington, 2014
- Harper, Sarah M. (2001), Professor, Ph.D., Kent State University, 2003
- Hegmann, Elda (2011), Assistant Professor, Ph.D., Laval University, 2003
- Hudak, Christine A. (2012), Professor, Ph.D., Cleveland State University, 1998
- Jakli, Antal I. (1989), Professor, Ph.D., University of Budapest, 1986
- Martens, Marianne (2012), Associate Professor, Ph.D., Rutgers, The State University of New Jersey, 2012
- Matteson, Miriam L. (2012), Associate Professor & Director, Ph.D., University of Maryland, 2009
- Meehan, Rebecca A. (2012), Associate Professor, Ph.D., Case Western Reserve University, 1997
- Nichols, Mary A. (1996), Senior Lecturer, M.L.S., Kent State University, 1993
- Robins, David B. (2004), Associate Professor, Ph.D., University of North Texas, 1998
- Salaba, Athena (1993), Professor, Ph.D., University of Wisconsin, Madison, 2005
- Sherman, Paul J. (2013), Assistant Professor, Ph.D., University of Texas at Austin, 1997
- Smith, Catherine L. (2010), Associate Professor, Ph.D., Rutgers, The State University of New Jersey, 2010
- Soyka, Heather (2017), Assistant Professor
- Zeng, Marcia L. (1992), Professor, Ph.D., University of Pittsburgh, 1992
- Zhang, Yin (1999), Professor, Ph.D., University of Illinois, Chicago, 1999

### School of Journalism and Mass Communication Faculty

- Armour, Luke L. (2012), Associate Professor, M.A., University of Akron, 2006
- Bailey, Evan B. (2003), Associate Professor, M.A., Kent State University, 2009

- Bowen, Candace P. (1995), Professor, M.A., Northern Illinois University, 1980
- Butler-Wall, Karisa (2019), Assistant Professor, Ph.D.
- Coombs, Danielle S. (2007), Professor
- Dworzniak, Gretchen J. (2015), Assistant Professor, Ph.D., Kent State University, 2008
- Ewing, Michele E. (2002), Associate Professor, M.A., Kent State University, 1989
- Foster, David A. (2014), Assistant Professor, M.A., Kent State University, 2014
- Fruit, Jeffrey W. (1998), Professor & Interim Director, M.A., The Ohio State University, 1977
- Goodman, Mark (2008), Professor, J.D., Duke University, 1985
- Hallgren, Scott W. (2016), Assistant Professor
- Hoak, Gretchen J. (2015), Assistant Professor, Ph.D., Kent State University, 2008
- Idsvoog, Karl A. (2004), Associate Professor
- Knoblock, Christopher (2019), Lecturer
- Lambert, Cheryl A. (2016), Assistant Professor
- Leach, Janet C. (2003), Professor, M.A., Kent State University, 2006
- Marino, Jacqueline A. (1990), Professor, M.A., The Johns Hopkins University, 2002
- McKenney, Mitchell J. (2001), Associate Professor, M.B.A., Kent State University, 2008
- Moore, Stefanie A. (2001), Professor, M.S., Kent State University, 2007
- Murray, Gordon J. (1982), Associate Professor, Ph.D., Kent State University, 1998
- Nowitz, Abraham (2019), Assistant Professor
- Roberts, Timothy A. (2003), Associate Lecturer, M.A., Kent State University, 2010
- Rolnick, Rebecca M. (2017), Assistant Professor, M.F.A., University of Southern California, 2000
- Sarver-Coombs, Danielle (2007), Professor, Ph.D., Louisiana State University-Baton Rouge, 2007
- Schultz, Connie, Professional in Residence
- Shelton, Eugene (2001), Professor, M.A., Kent State University, 2004
- Smith, Stephanie D. (2012), Associate Professor, M.P.A., Harvard College, 1994
- Tang, Tang (2018), Professor
- Wardell, Wendy A. (2012), Associate Lecturer, B.S., University of Akron, 1991
- Wasbotten, Thor L. (2012), Professor, M.S., University of Oregon, 1995
- White, Dana (2018), Assistant Professor, M.F.A., University of California, Riverside, 2015
- Williams, Traci E. (1995), Senior Lecturer, L.S.M., Kent State University, 2005
- York, Chance A. (2014), Assistant Professor, Ph.D., Louisiana State University-Baton Rouge, 2014
- York, Chance (2014), Assistant Professor, Ph.D., Louisiana St University A&M, Baton Rouge, 2014
- Zake, Susan K. (2007), Associate Professor, M.A., Kent State University, 2011
- Bell, Timothy J. (2015), Assistant Professor, M.Arch., Columbia University, 2012
- Coorey, Jillian S. (2010), Associate Professor, M.F.A., University of Illinois at Chicago, 2010
- Goldsmith, Douglas M. (1988), Assistant Professor, M.F.A., Carnegie Mellon University, 1988
- Inderhees, Joan E. (2018), Senior Lecturer, Ph.D., Kent State University, 2018
- Katila, Sanda S. (1990), Associate Professor, M.F.A., Kent State University, 1993
- Kennedy, Jaime D. (2007), Associate Professor, M.F.A., The Ohio State University, 2006
- King, Larrie L. (2012), Assistant Professor, M.F.A., Kent State University, 2014
- McConaughy, Kathleen M. (2018), Lecturer, B.F.A., Kent State University, 1980
- Middleton, David A. (1998), Professor, M.A., Kent State University, 1985
- Mooney, Aoife (2013), Assistant Professor, M.F.A., Reading University, 2010
- O'Grady, Kenneth J. (1997), Professor, M.F.A., Kent State University, 2000
- Peters, Daphne F. (2014), Assistant Professor, B.Arch., Carnegie Mellon University, 2002
- Ransom, Christopher T. (1996), Associate Professor, M.F.A., University of Delaware, 1993
- Renicker, Valora (1994), Professor, M.F.A., Kent State University, 2001
- Rinnert, Gretchen C. (2008), Associate Professor, M.F.A., North Carolina State University at Raleigh, 2008
- Roll, David (2015), Assistant Professor, M.A., Kent State University, 2007

## **College of Education, Health and Human Services Faculty**

### **School of Foundations, Leadership and Administration Faculty**

- Boske, Christa A. (2008), Associate Professor, Ed.D., Northern Illinois University, 2006
- Chuang, Ning Kuang (2005), Associate Professor, Ph.D., Texas Tech University, 2005
- Clark, Debra L. (1995), Associate Professor, Ph.D., Kent State University, 2003
- Damrow, Amy (2014), Assistant Professor, Ph.D., Michigan State University, 2011
- Devine, Mary Ann (1997), Professor, Ed.D., University of Georgia, 1997
- Eckert, Erica L. (1998), Assistant Professor & Assistant Dean, Ph.D., Kent State University, 2012
- Eith, Andrew S. (2014), Lecturer, New England Culinary Institute, 2013
- Gonzalez, Gloria L. (1998), Assistant Professor & Academic Program Director, Ph.D., University of Iowa, 1994
- Gornik, Rosemary (2003), Assistant Professor, Ph.D., Kent State University, 2003
- Guivernau, Marta (2007), Assistant Professor, Ph.D., Purdue University, 1999
- Hamilton, Anthony J. (2017), Associate Lecturer

### **School of Visual Communication Design Faculty**

- Barnes, Jessica S. (2012), Associate Professor, M.F.A., University of Minnesota, Twin Cities, 2012

- Hoegler, Edward M. (2008), Associate Lecturer, M.S., Johnson & Wales University, 1994
- Hudson, Tara D. (2017), Assistant Professor, Ph.D., North Carolina State, 2015
- Israeli, Aviad A. (2012), Associate Professor, Ph.D., Kent State University, 1997
- Karpinski, Aryn C. (2010), Assistant Professor, Ph.D., The Ohio State University, 2010
- Kosmidis, Aryn C. (2010), Associate Professor
- Kretovics, Mark A. (2001), Associate Professor, Ph.D., Colorado State University, 1998
- Lee, Seon Jeong (2014), Assistant Professor, Ph.D., University of Massachusetts, Amherst, 2014
- Lee, Kiwon (2017), Assistant Professor, Ph.D., Penn State University, 2013
- Lepp, Andrew P. (2004), Professor, Ph.D., University of Florida, 2004
- Levinson, Natasha (1997), Associate Professor, Ph.D., University of Illinois, Urbana-Champaign, 2001
- Li, Jian (2012), Associate Professor, Ph.D., The Ohio State University, 2012
- Lyberger, Mark R. (1996), Associate Professor, Ph.D., The Ohio State University, 1996
- Merrill, Martha C. (2008), Associate Professor, Ph.D., University of Michigan, Ann Arbor, 1982
- Mulrooney, Aaron L. (1992), Associate Professor, J.D., University of Akron, 1990
- Niesz-Kutsch, Tricia (2004), Associate Professor, Ph.D., University of Pennsylvania, 2003
- Parr, Mary G. (1992), Associate Professor, Ph.D., University of Illinois-Urbana, Champaign, 1992
- Pasquarella, Deborah S. (2019), Associate Lecturer, M.Ed., Colorado State University, 1988
- Porter, Christa J. (2017), Assistant Professor, Ph.D., University of Georgia, 2013
- Schenker, Jason D. (2000), Associate Professor, Ph.D., Kent State University, 2007
- Schimmel, Kimberly S. (1995), Professor & School Director, Ph.D., University of North Carolina-Greensboro, 1994
- Seeberg, Vilma (1989), Associate Professor
- Siler, Greta Y. (2004), Associate Lecturer, M.S., Kent State University, 2007
- Thomas, Stephen B. (1985), Professor, Ed.D., University of Florida, 1974
- Ulicney, Mandy L. (2010), Associate Lecturer, M.S., Kent State University, 2011
- Walton-Fisette, Theresa A. (2003), Professor, Ph.D., University of Iowa, 2002
- Wang, Philip C. (1990), Associate Professor, Ph.D., Pennsylvania State University, 1991
- Yim, Hyong Il (2015), Assistant Professor, Ph.D., University of Georgia, 2015
- Axiotis, Irene R. (1985), Professor, Ph.D., Kent State University, 1996
- Backus, Angela S. (2003), Associate Professor, Ph.D., Kent State University, 2010
- Baker, Emily A. (2012), Lecturer, M.S., Case Western Reserve, 2001
- Barikoo, Ali (2017), Assistant Professor, Ph.D., University of Florida, 2017
- Barkley, Jacob E. (2006), Professor, Ph.D., University at Buffalo, SUNY, 2007
- Berk, Lynn V. (2008), Associate Lecturer, M.A., Cleveland State University, 1981
- Bernert, Donna J. (2007), Assistant Professor, Ph.D., Southern Illinois University, 2005
- Blakely-Adams, Carmen M. (2007), Associate Lecturer, M.Ed., Cleveland State University, 2004
- Burke, Amanda J. (2000), Assistant Professor, Ph.D., Kent State University, 2015
- Burzminski, Nancy H. (2001), Associate Professor, Ph.D., Saint Mary's University, 2003
- Caine-Bish, Natalie L. (1997), Associate Professor, Ph.D., Kent State University, 2002
- Ding, Kele (2005), Associate Professor, Ph.D., Indiana University-Bloomington, 2000
- Durant, Kathleen M. (2019), Assistant Professor
- Evans, Na'Tasha (2017), Assistant Professor, Ph.D., University of Toledo, 2016
- Falcone, Tanya R. (2007), Associate Lecturer, M.S., Kent State University, 2009
- Forbes, Myrna A. (1998), Associate Lecturer, Au.D., University of Florida, 2005
- Glickman, Ellen L. (1995), Professor & School Director, Ph.D., University of Pittsburgh, 1988
- Gordon, Karen L. (1988), Associate Professor, Ph.D., University of Illinois, Urbana-Champaign, 1988
- Grogan-Johnson, Susan L. (1988), Associate Professor, Ph.D., Kent State University, 1993
- Ha, Eun-Jeong (2004), Associate Professor, Ph.D., The Ohio State University, 1999
- Hale, Catherine C. (2000), Associate Lecturer, M.S., Indiana University, Bloomington, 1995
- Harnar, Hannah M. (2011), Assistant Professor, M.S., Kent State University, 2013
- Hawks, John W. (1991), Associate Professor, Ph.D., Washington University in St. Louis, 1990
- Huston, Jeffery L. (2007), Professor, Ed.D., Capella University, 2017
- Huyck, Julia J. (2013), Assistant Professor, Ph.D., Northwestern University, 2010
- Jajtner, Adam (2016), Assistant Professor, Ph.D., University of Central Florida, 2016
- Jonas, Jay C. (2006), Professor, M.Ed., University of Virginia, 1998
- Kerr, Dianne L. (1988), Professor, Ph.D., The Ohio State University, 1992
- Kingsley, James D. (2013), Associate Professor, Ph.D., Florida State University, 2009
- Kolonich, Erin M. (2017), Lecturer
- Krumm, Mark P. (2005), Associate Professor, Ph.D., Wichita State University, 1990

## School of Health Sciences Faculty

- Arnold, Hayley S. (2010), Associate Professor, Ph.D., Vanderbilt University, 2007
- Audet, Lisa R. (1995), Assistant Professor, Ph.D., Kent State University, 2000



- Malone, Megan (2012), Associate Lecturer, M.A., Case Western Reserve University, 2000
- Matthews, Jamie C. (2014), Lecturer, M.S., Kent State University, 2004
- McDaniel, John (2011), Assistant Professor, Ph.D., University of Utah, 2009
- Miracle, Amy L. (2012), Assistant Professor, Ph.D., University of Nevada-Las Vegas, 2013
- Mussoi, Bruna (2017), Assistant Professor, Ph.D., University of Iowa, 2016
- O'Flannigan, Cara M. (2016), Lecturer, M.A., Case Western Reserve University, 2007
- Peer, Kimberly S. (1999), Professor, Ed.D., University of Akron, 2001
- Ray-Tomasek, Jennifer L. (1998), Assistant Professor, Ph.D., Kent State University, 2004
- Ridgel, Angela L. (2008), Associate Professor, Sc.D., Marshall University, 2000
- Roche, Jennifer M. (2014), Assistant Professor, Ph.D., University of Memphis, 2011
- Sharp, David E. (2015), Assistant Professor, Ph.D., Cornell University, 2015
- Tribuzi, Scot B. (2006), Professor, Ph.D., Kent State University, 2015
- Vaughn, Amy L. (2012), Lecturer, M.A., Case Western Reserve University, 1995
- Visker, Jennifer N. (2016), Lecturer, M.A., Case Western Reserve University, 2001
- Wagner, Laurie M. (1997), Assistant Professor, Ph.D., Kent State University, 2008
- Cox, Jane A. (2007), Associate Professor, Ph.D., Kent State University, 1997
- Cureton, Jenny (2016), Assistant Professor, Ph.D., University of Northern Colorado, 2016
- Dellmann-Jenkins, Mary M. (1981), Professor & School Director, Ph.D., University of Wisconsin-Madison, 1982
- Ferdig, Richard E. (2009), Professor, Ph.D., Michigan State University, 2000
- Geething, Kathy J. (2001), Lecturer
- Godwin-Inaba, Karrie (2016), Assistant Professor, Ph.D., Carnegie Mellon, 2015
- Guillot-Miller, Lynne M. (2003), Associate Professor, Ph.D., University of New Orleans, 2003
- Hallaman, Lisa M. (2007), Senior Lecturer, M.A., Kent State University, 1996
- Harjusola-Webb, Sanna M. (2006), Associate Professor, Ph.D., University of Kansas, 2006
- Hines, Laurie A. (2000), Assistant Professor, Ph.D., Indiana University, Bloomington, 2000
- Jencius, Martin J. (2000), Associate Professor, Ph.D., University of South Carolina, 1996
- Kenyon, Cynthia (2009), Lecturer, M.Ed., Kent State University, 2010
- Kritzer, Karen (2007), Associate Professor, Ph.D., University of Pittsburgh, 2007
- Leslie, Mykal J. (2014), Assistant Professor
- Liou, Chih-Ling (2014), Assistant Professor, Ph.D., Virginia Polytechnic Institute and State University, 2011
- Luft, Pamela J. (1995), Professor, Ph.D., University of Illinois-Urbana-Champaign, 1995
- McCartney, Jamie L. (2007), Assistant Professor, Ph.D., University of Akron, 2004
- McGlothlin, Jason M. (2000), Associate Professor, Ph.D., Ohio University, 2001
- McWilliams-Woods, Wendy (1984), Assistant Professor, M.Ed., Kent State University, 1988
- Moore, Alma J. (2012), Lecturer, M.Ed., Malone University, 2004
- Morris, Bradley J. (2012), Associate Professor, Ph.D., The Ohio State University, 1998
- Morsefield, Rebecca H. (1998), Associate Lecturer, M.Ed., Kent State University, 1997
- Osborn, Cynthia J. (1997), Professor, Ph.D., Ohio University, 1996
- Page, Betsy J. (1996), Associate Professor, Ed.D., University of Maine, 1996
- Pieper, Alicia (1969), Assistant Professor, M.A., Kent State University, 1968
- Rainey, John S. (2002), Assistant Professor, Ph.D., Texas A&M University, 2001
- Rumrill, Phillip D. (1996), Professor, Ph.D., University of Arkansas, 1983
- Sansosti, Frank J. (2006), Professor, Ph.D., University of South Florida, 2005
- Smith, Gregory C. (2001), Professor, Ph.D., University of Rochester, 1983
- Stevenson, Nathan (2015), Assistant Professor, Ph.D., Michigan State University, 2015

## School of Lifespan Development and Educational Sciences Faculty

- Albritton, Kizzy (2015), Assistant Professor, Ph.D., Georgia State University, 2014
- Alexander, Donna C. (2008), Lecturer, M.B.A., Ashland University, 2004
- Anhalt, Karla (2003), Professor, Ph.D., West Virginia University, 2000
- Balan, Christine M. (1986), Professor, Ph.D., Kent State University, 1994
- Barber, Brian R. (2013), Assistant Professor, Ph.D., Kent State University, 2014
- Bedesem, Pena L. (2010), Associate Professor, Ph.D., University of Central Florida, 2010
- Bergh, Kathleen A. (2000), Senior Lecturer, M.Ed., University of Akron, 1985
- Blankemeyer, Maureen S. (1996), Associate Professor, Ph.D., Oklahoma State University, 1996
- Burgess, Sloane R. (2008), Associate Professor, Ph.D., Case Western Reserve University, 2007
- Byrd, Janice (2017), Assistant Professor, Ph.D., University of Iowa, 2016
- Chen, Ching-I (2014), Assistant Professor
- Cichy, Kelly E. (2008), Associate Professor, Ph.D., Pennsylvania State University, 2007
- Cimera, Robert E. (2007), Professor, Ph.D., University of Illinois-Urbana, Champaign, 1998
- Cowan, Richard J. (2003), Associate Professor, Ph.D., University of Nebraska, 2003

- Storlie, Cassandra A. (2013), Associate Professor, Ph.D., University of Iowa, 2013
- Tankersley, Melody J. (1993), Professor & Interim Senior Vice President & Provost, Ph.D., University of Virginia, 1992
- Tobias, Scott A. (2009), Associate Professor, D.Sci., University of Missouri, 2009
- Toepfer, Steven M. (2004), Associate Professor, Ph.D., The Ohio State University, 2001
- Unger, Darlene D. (2016), Professor, Ph.D., Virginia Commonwealth University, 2001
- Walker, Kathleen K. (2002), Associate Professor, Ph.D., Kansas State University, 2002
- Waugh, Jennifer A. (2012), Assistant Professor
- Wiley, Andrew L. (2008), Associate Professor, Ed.D., University of Virginia, 2008
- Wisdom, Sonya L. (2012), Associate Professor, Ph.D., Kent State University, 2010
- Zhang, Jing (2018), Assistant Professor
- Irving, Sonya E. (2013), Assistant Professor, Ph.D., University of Illinois, Urbana, Champaign, 2014
- Kenyon, Elizabeth (2015), Assistant Professor, Ph.D., Michigan State University, 2015
- Kidder, Melanie K. (1995), Associate Lecturer, M.A., California State University-San Marcos, 2004
- Kim, Insook (2012), Associate Professor, Ph.D., The Ohio State University, 2011
- Knapp, Kathryn A. (2007), Assistant Professor, Ph.D., Kent State University, 2013
- Kosko, Karl W. (2012), Associate Professor, Ph.D., Virginia Polytechnic Institute and State University, 2010
- Kroeger, Janice (2002), Associate Professor, Ph.D., University of Wisconsin, Madison, 2003
- Kuo, Chia-Ling (2005), Associate Professor, Ph.D., Ohio University, 2005
- Lampe, Jennifer K.
- Lash, Martha J. (2003), Associate Professor, M.S., Indiana University, Bloomington, 2004
- Levicky, Michael T. (2008), Lecturer, M.Ed., Kent State University, 2010
- Miller-Marsh, Monica A. (2012), Associate Professor, Ph.D., University of Wisconsin, Madison, 1997
- Mitchell, Stephen A. (1992), Associate Professor & Associate Dean, Ph.D., Syracuse University, 1992
- Monobe, Gumiko (2010), Associate Professor
- Morgan, Denise N. (2004), Professor
- Mulvey, Bridget K. (2012), Associate Professor, Ph.D., University of Virginia, Main Campus, 2012
- Mupinga, Davison M. (2008), Associate Professor, Ph.D., Louisiana State University-Baton Rouge, 1999
- Myers, Casey Y. (2009), Assistant Professor, Ph.D., Kent State University, 2015
- Navy, Shannon L. (2017), Assistant Professor, Ph.D., University of Georgia, 2014
- Novak, Elena (2015), Associate Professor, Ph.D., Florida State University, 2012
- Nurnberger-Haag, Julie (2015), Assistant Professor, Ph.D., Michigan State University, 2015
- O'Connor, Patrick J. (1988), Associate Professor, Ed.D., Virginia Polytechnic Institute and State University, 1982
- Pech, Sandra, Associate Professor
- Pytash, Kristine E. (2006), Associate Professor, Ph.D., Kent State University, 2009
- Rasinski, Timothy V. (1988), Professor, Ph.D., Iowa State University, 2005
- Raven, Sara P. (2013), Assistant Professor, Ph.D., University of Georgia, 2013
- Sandmann, Alexa L. (2004), Professor & School Director, Ed.D., University of Cincinnati, 1990
- Stoll, Julia A. (2000), Associate Professor, Ph.D., Kent State University, 2015
- Testa, Elizabeth A. (2013), Associate Professor, Ph.D., University of Akron, 2014
- Turner, Steven L. (2005), Associate Professor, Ph.D., University of Virginia, Main Campus, 2005

## School of Teaching, Learning and Curriculum Studies Faculty

- Bedrosian, Wendlyn K. (1998), Assistant Professor, Ph.D., Kent State University, 2004
- Bintz, William P. (2004), Professor
- Borgerding, Lisa (2007), Associate Professor, Ph.D., Indiana University, Bloomington, 2007
- Caniglia, Joanne C. (2008), Associate Professor, Ph.D., Kent State University, 1994
- Courtney, Scott A. (2010), Associate Professor, Ph.D., Arizona State University, 2010
- Crowe, Alicia R. (2001), Professor & Associate Dean, Ph.D., Vanderbilt University, 2001
- Dever, Robin M. (2007), Associate Professor
- Dowdy, Joanne K. (2001), Professor, Ph.D., University of North Carolina, Chapel Hill, 1997
- Eckert, Kevin (2015), Lecturer, M.Ed., Kent State University, 2017
- Ellison, Douglas (2017), Assistant Professor, Ph.D., University of Illinois, Urbana, 2016
- Froehlich, Larry G. (2002), Associate Professor, Ed.D., West Virginia University, 1984
- Gandolfi, Enrico (2015), Assistant Professor
- Gershon, Walter S. (2006), Associate Professor, Ph.D., University of California, Riverside, 2007
- Gorecki, Jennifer J. (2011), Assistant Professor, O.G.D., University of South Carolina, 2000
- Gruhler, Danielle M. (1999), Associate Professor, Ph.D., Kent State University, 2004
- Hawley, Todd (2008), Associate Professor, Ph.D., University of Georgia, 2008
- Heron, Michele L. (2004), Assistant Professor, Ph.D., Kent State University, 2010
- Hollstein, Matthew S. (2015), Assistant Professor, Ph.D., Ohio University, 2015
- Hostler, Rochelle (2008), Lecturer, Pacific Oaks College, 2004
- Hutchins, Pamela K. (1993), Associate Lecturer, M.Ed., Kent State University, 1992

- Walton-Fisette, Jennifer L. (2008), Associate Professor & Director, Ed.D., University of Massachusetts-Amherst, 2008
- Wang, Jiahui (2018), Assistant Professor
- Wilfong, Lori G. (2002), Associate Professor, Ph.D., Kent State University, 2006
- Zimmerman, Belinda S. (1992), Associate Professor, Ph.D., Kent State University, 2003

- Ferguson, Joann H. (2009), Lecturer, M.S., Walden University, 2008
- Ferranto, Mary L. (1994), Professor, Ph.D., Kent State University, 2013
- Fisher, Benita L. (2008), Lecturer, M.S.N., Case Western Reserve University, 1992
- Fleming, Diana L. (2007), Senior Lecturer, M.S.N., University of Phoenix, 2005
- Fox, Tamara A. (2006), Lecturer, M.S.N., Ursuline College, 2001
- Gaddis, Lynn M. (2017), Assistant Professor, D.N.P., Kent State University, 2017
- Gidden, Tracy L. (2003), Senior Lecturer, M.S.N., Kent State University, 1996
- Hansen, Dana M. (2012), Associate Professor, Ph.D., Case Western Reserve University, 2013
- Hawkins, Krista L. (2009), Lecturer, M.S.N., Kent State University, Salem, 2017
- Herzog, Edward A. (2004), Senior Lecturer, M.S.N., University of Cincinnati, 1983
- Hill, Diane S. (2007), Senior Lecturer, M.S.N., Kent State University, 1993
- Howell, Christina M. (2019), Lecturer, M.S.N., Walden University, 2018
- Jacobson, Kristine (1998), Lecturer, M.S.N., Kent State University, 2006
- James, Ann M. (2013), Lecturer, M.S.N., Kent State University, 2015
- Jarzembak, Jeremy M. (1994), Senior Lecturer, M.A., Kent State University, 2002
- Jarzembak, Kellie (2008), Lecturer, M.S.N., Kent State University, 2013
- Kauth, Christine (1993), Professor, Ph.D., Capella University, 2016
- Knox, Louise H. (2012), Associate Professor, D.N.P., Case Western Reserve University, 1998
- Kotsch, Janeen S. (2007), Senior Lecturer, M.S.N., University of Phoenix, 2007
- Kutchin, Mary F. (2006), Associate Lecturer, M.S.N., Kent State University, 1991
- Larubina, Jessica L. (2019), Lecturer, M.S.N., Walden University, 2012
- Lazaroff, Eldora L. (2006), Professor, D.N.P., Kent State University, 2018
- Lewis, Lory A. (2015), Assistant Professor, Ph.D., Kent State University, 2014
- Lukach, Mary B. (1993), Senior Lecturer, M.S.N., Kent State University, 1992
- Martin, Lorene S. (2004), Senior Lecturer, M.S.N., Kent State University, 2005
- Mascolo, Karen L. (2011), Associate Professor, D.N.P., The Ohio State University, 2011
- McFarland, Earl (2017), Lecturer, M.S.N., Case Western Reserve University, 1999
- Metheney, Jennifer R. (2006), Senior Lecturer, M.S.N., Kent State University, 2005
- Meyers, Timothy (2007), Professor, Ph.D., Kent State University, 2016
- Mittas, Lisa L. (2016), Lecturer
- Motter, Tracey M. (1993), Assistant Professor & Associate Dean, D.N.P., Kent State University, 2016
- Mountain, Cherie (2011), Lecturer, M.S.N., Walden University, Baltimore, 2008
- Myers, Kerry H. (2013), Associate Lecturer, M.S.N., Kent State University, 2013

## College of Nursing Faculty

- Aller, Loretta J. (2010), Associate Lecturer, M.S.N., Kent State University, 1995
- Ancona, Ann C. (2003), Associate Lecturer, M.S.N., University of Akron, 2000
- Anthony, Mary K. (2005), Professor & Associate Dean, Ph.D., Case Western Reserve University, 1995
- Bacha, Mary B. (2007), Associate Lecturer, M.S.N., Kent State University, 1983
- Baller, Patricia M. (1998), Senior Lecturer, M.S.N., University of Kentucky, 1982
- Beckley, Lyndy E. (2017), Lecturer, M.S.N., Kent State University, 2016
- Bixler, Sarah (2013), Lecturer, M.S.N., Kent State University, 2014
- Blackwell, James (2018), Lecturer
- Bowen, Lucas S. (2013), Lecturer, M.S.N., Kent State University, 2015
- Bracken-Ott, Heather L. (2017), Lecturer, M.S., Chamberlain College of Nursing, Addison, 2017
- Brady, Cheryl L. (1994), Senior Lecturer, M.S.N., University of Akron, 1994
- Brison, Laura J. (2007), Senior Lecturer, M.A.T., Marygrove College, 2003
- Broome, Barbara A. (2014), Professor & College Dean, Ph.D., University of Pittsburgh, 1997
- Burhanna, Taryn R. (2006), Lecturer, M.S.N., Kent State University, 2018
- Caplin, Marcy S. (2001), Associate Professor, Ph.D., Kent State University, 2016
- Cifani, Debra K. (2009), Associate Lecturer, D.N.P., Kent State University, 2017
- Cleveland, Kimberly A. (2015), Lecturer, J.D., Cleveland Marshall College of Law, 2003
- Colwell, Alice (2008), Associate Lecturer, M.S.N., Kent State University, 2011
- Davis, Lisa M. (2016), Lecturer, M.S.N., Kent State University, Stark Campus, 2016
- DePaul, Kimberly E. (2011), Lecturer, M.S.N., Kent State University, 2013
- Dodson, Tracy M. (2016), Lecturer, M.S.N., Jacksonville University, 2016
- Dowell, Jo A. (2015), Assistant Professor, Ph.D., University of North Carolina, Chapel Hill, 2011
- DuVall, Melissa E. (2018), Lecturer, Ph.D., M.S.N., 2017
- Dwinells, Kathleen M. (1994), Associate Professor, Ph.D., Kent State University, 2017
- Dyer, Melissa B. (2007), Senior Lecturer, M.S.N., Kent State University, 2003
- Echeverry, Lisa M. (2008), Associate Professor, D.N.P., Rush University, 2013

- Nelson, Andrea L. (2019), Lecturer
- Nibling, Marilyn (2008), Assistant Professor, D.N.P., University of Akron, 2015
- Onesko, Lisa M. (2008), Assistant Professor, D.N.P., Rush University, 2013
- Owen, Melissa A. (2016), Lecturer, M.S.N., Kent State University, 2015
- Pacholski, Denise C. (2008), Lecturer, M.S.N., University of Akron, 2000
- Petrinec, Amy B. (2016), Assistant Professor, Ph.D., Case Western Reserve University, 2014
- Pierce-Brown, Sarah E. (2008), Lecturer, M.S.N., Kent State University, 2017
- Rafferty-Semon, Pamela H. (2009), Associate Lecturer, M.S.N., University of Phoenix, 2009
- Redfern, Christina M. (2018), Lecturer, B.S.N., Kent State University, 2013
- Reed, Janet M. (2013), Associate Lecturer, M.S.N., University of Toledo, 2013
- Revlock, Marna M. (2016), Lecturer
- Roberts, Betty L. (2014), Lecturer, M.S.N., Kent State University, 1998
- Robinson, Laurie B. (2015), Lecturer, M.S.N., Kent State University, 2016
- Saunders, Tina L. (2006), Senior Lecturer, M.S.N., Kent State University, 2004
- Severino, Gina M. (2006), Senior Lecturer, M.S.N., Youngstown State University, 2006
- Shanholtzer, Jennifer R. (2011), Associate Lecturer, M.S.N., Kent State University, 2011
- Sheehan, Denise (2007), Associate Professor, Ph.D., University of Akron, 2007
- Shelestak, Debra S. (1996), Assistant Professor, Ph.D., Kent State University, 2007
- Smith, Yvonne M. (2005), Assistant Professor, Ph.D., Kent State University, 2014
- Stephenson, Pamela L. (2009), Associate Professor, Ph.D., Kent State University, 2011
- Thomas, Elaine (2002), Senior Lecturer, M.S.N., University of Akron, 2000
- Tudhope, James (2015), Assistant Professor, M.S.N., Kent State University, 2013
- Umberger, Wendy A. (1985), Professor & Associate Dean, Ph.D., Case Western Reserve University, 2002
- Veney, Amy J. (2013), Associate Lecturer, M.S.N., Kent State University, 2013
- Vermeersch, Patricia E. (2011), Professor, Ph.D., Case Western Reserve University, 1986
- Walker, Lynne J. (2012), Associate Lecturer, M.S.N., Kent State University, 2011
- Wang, Yafen (2013), Associate Professor, Ph.D., Case Western Reserve University, 2013
- Warner-Stidham, Andrea M. (1994), Assistant Professor, M.S.N., Kent State University, 2013
- Weil, Heather (2012), Lecturer, M.S.N., University of Phoenix, 2012
- Wilk, Cindy A. (2003), Senior Lecturer, M.S.N., Kent State University, 2000

## College of Podiatric Medicine Faculty

- Belovich, Stephanie J. (2012), Associate Professor, Ph.D., Kent State University, 1999
- Blazer, Marie M. (2012), Associate Professor, D.P.M., Ohio College of Podiatric Medicine, 2004
- Connors, James C. (2016), Assistant Professor, D.P.M., Ohio College of Podiatric Medicine, 1999
- Dalman, Mark R. (2016), Assistant Professor, Ph.D., University of Akron, 2014
- Eble, Joann P. (2012), Assistant Professor & Assistant Dean, M.S., Cleveland State University, 1986
- Ehredt, Duane J. (2015), Associate Professor, D.P.M., Ohio College of Podiatric Medicine, 2011
- Hardy, Mark A. (2016), Associate Professor & Division Head, D.P.M., Kent State University, 1998
- Hetherington, Vincent J. (2012), Professor & Senior Associate Dean, D.P.M., Pennsylvania College of Podiatric Medicine, 1977
- Johnson, Rachel E. (2012), Assistant Professor, D.P.M., Ohio College of Podiatric Medicine, 2008
- Kawalec, Jill S. (2012), Professor & Director, Ph.D., Case Western Reserve University, 1997
- Mooney, Mary A. (2012), Assistant Professor, M.D., The Ohio State University, 1979
- Osbourne, Abe G. (2012), Associate Professor, D.P.M., Ohio College of Podiatric Medicine, 1990
- Osher, Lawrence S. (2012), Professor, D.P.M., Ohio College of Podiatric Medicine, 1982
- Petrozzi, Rocco A. (2012), Associate Professor & Division Head, D.P.M., Ohio College of Podiatric Medicine, 2003
- Pratt, Christina M. (2017), Assistant Professor, D.P.M., California School of Podiatric Medicine, Samuel Merritt University, 2013
- Razzante, Mark C. (2018), Assistant Professor
- Siesel, Kathy J. (2012), Associate Professor, D.P.M., Ohio College of Podiatric Medicine, 1989
- Spencer, Scott A. (2012), Associate Professor, D.P.M., Ohio College of Podiatric Medicine, 1987

## College of Public Health Faculty

- Alemagno, Sonia A. (2009), Professor & College Dean, Ph.D., Case Western Reserve University, 1990
- Beaird, Heather (2011), Associate Professor, Ph.D., Case Western Reserve University, 2005
- Benzigar, Sasikumar (2011), Assistant Professor, Ed.D., University of Cincinnati, 2014
- Bhargava, Tina D. (2012), Associate Professor, Ph.D., University of Pittsburgh, 2012
- Bhatta, Madhav P. (2009), Professor, Ph.D., University of Alabama, Birmingham, 2007
- Brewer, Thomas W. (2002), Associate Professor, Ph.D., University at Albany, SUNY, 2003
- Chatfield, Sheryl L. (2015), Assistant Professor, Ph.D., University of Mississippi, 2014
- Cheruvu, Vinay K. (2010), Associate Professor, Ph.D., Case Western Reserve University, 2012
- Eng, Abbey L. (2006), Associate Professor, Ph.D., Bowling Green State University, 2007



- Hallam, Jeffrey S. (2013), Professor & Associate Dean, Ph.D., The Ohio State University, 1995
- Hoornbeek, John A. (2006), Associate Professor, Ph.D., University of Pittsburgh, 2004
- Jefferis, Eric S. (2002), Professor, Ph.D., University of Cincinnati, 2004
- Kenne, Deric (2011), Associate Professor, Ph.D., University of Akron, 2010
- Knight, Kristina N. (2015), Assistant Professor, Ph.D., Kent State University, 2014
- Lanese, Bethany G. (2015), Assistant Professor, Ph.D., Wayne State University, 2004
- Laurene, Kimberly R. (2016), Assistant Professor, 2016
- Leahy, Peter J. (2016), Professor, Ph.D., Syracuse University, 1975
- Phillips, Lynette (2010), Associate Professor, Ph.D., University of North Carolina, Chapel Hill, 2007
- Smith, Tara C. (2013), Professor, Ph.D., University of Toledo, 2012
- Stedman-Smith, Maggie M. (2009), Associate Professor, Ph.D., University of Minnesota, Twin Cities, 2008
- Step, Mary M. (2015), Associate Professor, Ph.D., Kent State University, 1998
- Stephens, Margaret C. (2012), Professor, Ph.D., University of Akron, 1999
- Tomi, Laurel A. (2015), Lecturer, B.A., Kent State University, 1986
- VanGeest, Jonathan B. (2011), Professor
- Widuck, Cindy L. (1993), Lecturer, B.S., Kent State University, 1998
- Woolverton, Christopher J. (1995), Professor, Ph.D., West Virginia University, 1986
- Yoder, Janice D. (2015), Professor, Ph.D., State University of New York, Buffalo, 1979
- Zakariasen, Kenneth L. (2012), Professor, Ph.D., University of Minnesota, Twin Cities, 1978
- Zullo, Melissa D. (2009), Associate Professor
- Kan, Koon-Hwee (2003), Associate Professor, Ed.D., University of Illinois-Urbana, 2004
- Kessler, Eli (2019)
- Kuebeck, Andrew (2017), Assistant Professor, M.F.A., Indiana University, Bloomington, 2011
- Lessman-Moss, Janice (1981), Professor, M.F.A., University of Michigan, Ann Arbor, 1981
- Loderstedt, Michael J. (1982), Professor, M.F.A., Kent State University, 1985
- McMahon, Taryn (2013), Assistant Professor, M.A., University of Iowa, 2010
- McWhorter, Jack E. (1989), Professor, M.A., Kent State University, 1983
- Medicus, Gustav F. (1989), Associate Professor, Ph.D., Indiana University, Bloomington, 1992
- Myers, Andrea (2015), Assistant Professor, M.F.A., School of Art Institute of Chicago, 2006
- Polo, Darice M. (2004), Associate Professor, M.F.A., University at Albany, SUNY, 1999
- Powell, Shawn K. (2018), Assistant Professor, M.F.A., City University of NY, Hunter College, 2009
- Reischuck, Albert W. (1990), Senior Lecturer, M.A., Kent State University, 1991
- Roll, Melanie R. (2001), Lecturer, M.A., Kent State University, 2014
- Schatz, Mark K. (2010), Assistant Professor, M.F.A., University of Texas, Austin, 2005
- Summers, Michelle M. (2019), Assistant Professor
- Underwood, Joseph L. (2017), Assistant Professor
- Vande Zande, Robin S. (2001), Professor
- Warner, John-Michael H. (2015), Assistant Professor, Ph.D., University of Arizona, 2015
- Yi, Hye-Shim (2019), Assistant Professor

## College of the Arts Faculty

### School of Art Faculty

- Bukowski, Marie D. (2017), Professor
- Buntin, Phillip D. (2006), Associate Professor, M.F.A., University of Connecticut, 2002
- Chishty, Mahwish (2016), Assistant Professor, M.F.A., University of Maryland, 2008
- Commito, Gianna E. (2005), Professor, M.F.A., University of Iowa, 2003
- Dorff, Juliann B. (1999), Senior Lecturer, M.A., Kent State University, 1998
- Ebanks, Davin (2005), Assistant Professor, M.F.A., Kent State University, 2010
- Farnsworth, Isabel (1997), Associate Professor, M.F.A., Stanford University, 1995
- Garcia, Janice L. (2019), Assistant Professor, M.F.A., University of Wisconsin, Madison, 2018
- Gasper-Hulvat, Marie (2013), Assistant Professor, Ph.D., Bryn Mawr College, 2012
- Hoepfner-Poling, Linda A. (1986), Associate Professor, Ph.D., Kent State University, 2005
- Johnson, Peter C. (2015), Associate Professor, M.F.A., Penn State University, 2003

### School of Fashion Design and Merchandising Faculty

- Arnett, Joanne M. (2011), Assistant Professor, M.F.A., Kent State University, 2013
- Benitez, Margarita (2010), Associate Professor, M.F.A., School of the Art Institute of Chicago, 2008
- Bhaduri, Gargi (2014), Assistant Professor, Ph.D., University of Missouri, Columbia, 2014
- Campbell, James R. (2009), Professor & Executive Director, Ph.D., University of California, Davis, 1996
- Campbell, Melissa C. (2010), Assistant Professor
- Carr, Elizabeth M. (2006), Senior Lecturer, B.F.A., Stephens College, 1978
- Chen, Chanjuan (2015), Assistant Professor, Ph.D., University of Wisconsin, Madison, 1993
- Cho, Buhyung (2019), Assistant Professor, Ph.D., North Carolina State University at Raleigh, 2019
- Copeland, Lauren E. (2017), Assistant Professor, Ph.D., Kansas State University, 2015
- Dancie, Paula K. (2003), Associate Lecturer, B.F.A., Miami University, 1980
- Ellington, Tameka N. (1995), Associate Professor, B.A., Kent State University, 1999



- Grieder, Trista L. (2010), Associate Lecturer, M.S., Purdue University Global, 2009
- Hahn, Kim H. (2011), Professor, Ph.D., University of Nebraska, Lincoln, 2005
- Hauck, William E. (2000), Assistant Professor, M.A., Northeastern Illinois University, 1981
- Hume, Sara E. (2009), Associate Professor and Museum Curator, M.A., Fashion Institute of Technology, 2003
- Hwang, Ja Young (2015), Assistant Professor, Ph.D., Iowa State University, 2013
- Hyun, Jonghan (2010), Assistant Professor, M.S., University of Missouri, Columbia, 2007
- Kim, Jihyun (2013), Professor, Ph.D., Iowa State University, 2004
- Krifa, Mourad (2017), Assistant Professor, Ph.D., Virginia Polytechnic Institute and State University, 2017
- LaPolla, Kendra L. (2013), Associate Professor, M.F.A., The Ohio State University, 2010
- Leslie, Catherine A. (2002), Professor, Ph.D., The Ohio State University, 2002
- LoMonaco-Benzing, Rachel E. (2018), Assistant Professor, M.S., University of Rhode Island, 2009
- Mehta, Archana (2001), Lecturer, B.A., Kent State University, 2002
- Ohrn, Linda M. (2004), Professor, M.F.A., University of North Texas, 2003
- Palomo-Lovinski, Noel N. (2001), Associate Professor, M.F.A., Kent State University, 2009
- Perrine, William C. (2006), Senior Lecturer, M.A., Western Michigan University, 2004
- Quevedo, Vincent (2008), Associate Professor, M.A., University of Nebraska, Lincoln, 2004
- Riewe, Krissi R. (2019), Assistant Professor
- Snyder, Sara E. (2008), Associate Professor, M.F.A., Kent State University, 2014
- Stanforth, Nancy F. (2000), Associate Professor, Ph.D., The Ohio State University, 1993
- Stone, Hillary M. (2012), Associate Professor, M.S., School of the Art Institute of Chicago, 1999
- Valenzza, Lisa A. (2009), Lecturer, M.A., Kent State University, 2015
- Wachowiak, Marjorie (2012), Associate Lecturer, M.S., Franklin University, 2011
- Yoder, Sue J. (2013), Assistant Professor, M.F.A., Syracuse University, 2008
- Chunn, Michael W. (1983), Professor, M.M., University of Illinois at Chicago, 1980
- Culver, Timothy M. (1999), Associate Professor, M.M., Kent State University, 2002
- Devore, Richard O. (1983), Associate Professor, Ph.D., University of Iowa, 1985
- Dorfman, Jay (2006), Associate Professor
- Dressler, Jane K. (1987), Professor, Ph.D., University of North Carolina, Greensboro, 1989
- Ferguson, Katherine E. (2019), Assistant Professor, Ph.D., Kent State University, 2017
- Fowler, Kishna (2015), Assistant Professor, M.M., Juilliard School of Music, 1995
- Fucci, Melissa D. (2002), Associate Professor, M.M., Kent State University, 2009
- Holm, Matthew D. (2017), Assistant Professor, Ph.D., Arizona State University, 2006
- Johnstone, Jennifer L. (2002), Assistant Professor, Ph.D., Kent State University, 2012
- Kim, Junggho (2017), Assistant Professor, Ph.D., Eastman School of Music, 2015
- Larmee, Kent D. (1989), Associate Professor, M.M., The Ohio State University, 1981
- Le, Andrew (2019), Associate Professor
- Lee, Donna (1999), Professor, Ph.D., The Johns Hopkins University, 1999
- Leyva, Jesse (2013), Associate Professor, Arizona State University, 2010
- MacPherson, Scott A. (2008), Professor, D.M.A., University of Southern California, 1992
- Marshall, Herbert D. (2019), Assistant Professor
- Matthews, Wendy K. (2018), Associate Professor, Ph.D., George Mason University, 2007
- McCloskey-Rechner, Diane L. (1991), Associate Professor
- McPherson, Eve (2011), Associate Professor, Ph.D., University of California, Santa Barbara, 2009
- Mitchell, David E. (2001), Associate Professor, M.M., University of Akron, 1989
- Mukuna, Kazadi W. (1989), Professor, Ph.D., University of California, Los Angeles, 1978
- Nanongkham, Priwan (1998), Assistant Professor, Ph.D., Kent State University, 2011
- Naxer, Meghan (2008), Assistant Professor, Ph.D., University of Oregon, 2016
- Noh, Hyunjoo G. (1998), Assistant Professor, Ph.D., Kent State University, 2013
- Nowakowski, Mark (2016), Assistant Professor, M.M., University of Colorado, Boulder, 2006
- Resta, Craig M. (2008), Associate Professor, Ph.D., University of Maryland, University College, 2008
- Roberts, Adam (2018), Assistant Professor, Ph.D., Harvard University, 2010
- Robinson, Cathy M. (2003), Assistant Professor
- Robinson, Keith H. (2003), Assistant Professor
- Seachrist, Denise A. (1988), Professor, Ph.D., Kent State University, 1993

## School of Music Faculty

- Albrecht, Theodore J. (1992), Professor, Ph.D., University of North Texas, 1975
- Albrecht, Joshua D. (2019), Assistant Professor
- Anderson, Ian (2015), Assistant Professor, M.F.A., Middle Tennessee State University, 2009
- Bagwell, Dawn M. (2011), Lecturer, M.M., Kent State University, 2012
- Berg, Marla (2009), Assistant Professor, M.M., Cleveland Institute of Music, 1983
- Birch, Sebastian A. (2002), Associate Professor, Ph.D., Cleveland Institute of Music, 1997
- Brown, Dana A. (1984), Associate Professor, M.M., Kent State University, 1986

- Selvaggio, Robert (2010), Associate Professor, M.M., Manhattan School of Music, 1995
- Shahriari, Andrew C. (1993), Associate Professor, M.M., Kent State University, 2001
- Sundet, Danna S. (2002), Professor, M.M., Kent State University, 2002
- Tiffe, Janine L. (2011), Assistant Professor, Ph.D., Florida State University, 2015
- Vardi, Amitai (2012), Assistant Professor, M.M., Cleveland Institute of Music, 2002
- Vaughn, Erin M. (2006), Lecturer, M.M., Kent State University, 2015
- Venesile, Christopher J. (2010), Associate Professor
- White, Jay G. (2011), Professor, University of Maryland, College Park, 2005
- Zakany, Joanna P. (2017), Assistant Professor, B.M., Cleveland Institute of Music, 2006

### School of Theatre and Dance Faculty

- Bauer, Kerry J. (2014), Assistant Professor, M.F.A., Ohio University, 1995
- Black, Maryann P. (2002), Assistant Professor, M.F.A., Kent State University, 2007
- Black, Jennifer (2019), Assistant Professor, 2019
- Brown, Courtney (2014), Associate Professor, M.F.A., University of Southern Mississippi, 2008
- Campbell, Sharon S. (1989), Associate Professor, M.F.A., The Ohio State University, 1982
- Crawford-Spinelli, John R. (1988), Professor & College Dean, Ed.D., Temple University, 1989
- Drashner, Nicholas D. (2015), Assistant Professor, M.F.A., University of California, San Diego, 2012
- Fritsche, Amy (2013), Associate Professor, M.F.A., San Diego State University, 2010
- Honesty, Tamara L. (2016), Assistant Professor, M.F.A., West Virginia University, 1996
- Humes, Thomas W. (2019), Assistant Professor
- Hurley, Paul (2018), Assistant Professor, M.F.A., University of Delaware, 2007
- Huya, Natalie J. (2003), Associate Lecturer, M.A., Villanova University, 2001
- Karpanty, Kimberly A. (1995), Professor, M.F.A., Arizona State University, 2003
- Keenan, Grace A. (2004), Assistant Professor, M.F.A., Penn State University, 2012
- Kent, Therese J. (1991), Professor, M.F.A., Michigan State University, 1987
- Kildow, Eric S. (2015), Assistant Professor, M.F.A., Savannah College of Art and Design, 2009
- King, Gregory (2016), Assistant Professor, Southern Methodist University, 2010
- Korecki, Jennifer S. (2012), Assistant Professor, M.M., Kent State University, 1996
- Kurahashi, Yuko (2001), Professor, Ph.D., Indiana University, Bloomington, 1996
- Meredith, Catherine E. (2019), Assistant Professor, M.F.A., Hollins University, 2011

- Nadon, Daniel R. (1993), Professor, Ph.D., University of Colorado, Boulder, 1993
- Pauna, Steven R. (2013), Associate Professor, M.F.A., Kent State University, 2000
- Polanco, Fabio J. (2009), Associate Professor, M.F.A., Case Western Reserve University, 1997
- Rockland, Jeffrey M. (2015), Associate Professor, M.F.A., University of California, Irvine, 1992
- Seo, Jakyung (2009), Associate Professor, M.F.A., University of Illinois-Urbana, Champaign, 2004
- Souza, Michelle H. (2019), Assistant Professor
- Stillings, Cynthia R. (1992), Professor & Interim Graduate Dean & Associate Dean, M.F.A., University of Wisconsin, Madison, 1988
- Swoboda, Jonathan F. (2008), Associate Professor, M.M., University of Nebraska, Omaha, 1997
- Van Baars, Frans E. (1993), Associate Professor & School Director, M.F.A., Kent State University, 2002
- Verlezza, Barbara A. (2002), Associate Professor, M.F.A., Northern Illinois University, 2005
- Weaver, James A. (2007), Assistant Professor

### University Administration Faculty

- Bell, Aimee (2020), Dean of
- Brian, Oliver (2013), Dean of
- Jake, Michael (1995), Assistant Dean
- Kellogg, Jennifer (2009), Dean
- Ord, Christa (1897), President
- Parker, Jon (2075), Chair person
- Tillett, Therese (1999), Dean of

### University Libraries Faculty

- Antell, Haley (2018), Assistant Professor, M.S., 2015
- Bauer, Melissa M. (2012), Associate Professor, M.L.I.S., Kent State University, 2005
- Burhanna, Kenneth J. , Professor & Dean, M.L.S., Kent State University, 1994
- Clark, Joe (2010), Associate Professor, M.A., University of Arizona, 2003
- Deemer, Kevin L. , Assistant Professor & Assistant Dean
- Downey, Maria C. (2008), Associate Professor & Assistant Dean, M.L.S., Kent State University, 1993
- Dressler, Virginia A. (1994), Assistant Professor, M.L.I.S., Kent State University, 2007
- Earp, Vanessa J. (2005), Associate Professor & Interim Head, M.L.S., Indiana University, Bloomington, 2002
- Evans, Amanda L. (2005), Assistant Professor, M.L.I.S., Kent State University, 2008
- Faehnel, Amanda C. (2010), Associate Professor, M.L.I.S., Kent State University, 2007
- Fagan, Nichloas G. , Assistant Professor, M.L.I.S., 2006
- Fehrmann, Paul G. (1992), Associate Professor, M.A., University of Iowa, 1988
- Gilgenbach, Cara L. (1994), Associate Professor, M.L.S., Kent State University, 1995

- Guedel, Theodore E. (2015), Assistant Professor, M.L.I.S., Kent State University, 2007
- Hricko, Mary , Professor & Library Director
- Jefferson, Jasmine (2005), Assistant Professor, M.L.I.S., Kent State University, 2012
- Kairis, Robert C. (1992), Professor & Director, M.S., University of North Texas, 1987
- Kennedy, Hilary M. (2003), Lecturer, B.S., 2002
- Klinger, Thomas E. (1992), Professor, M.L.S., Kent State University, 1986
- Kristof, Cynthia M. (1996), Associate Professor, M.L.S., Kent State University, 1995
- Lisius, Peter H. (2007), Associate Professor, M.L.S., Indiana University, Bloomington, 2000
- MacDonald, Karen I. (2013), Associate Professor, M.L.I.S., Wayne State University, 2002
- McCutcheon, L. Sevim (2006), Associate Professor, M.L.S., Kent State University, 1997
- Medicus, Kathleen S. (1991), Associate Professor, M.L.S., Indiana University, Bloomington, 1988
- Panchyshyn, Roman S. (2008), Associate Professor, M.L.I.S., McGill University, 1997
- Richardson, Elizabeth A. (2008), Associate Professor, M.L.I.S., Kent State University, 2003
- Robinson, Kara L. (1988), Associate Professor & Associate Dean, M.L.S., Kent State University, 1989
- Serkownek, Edith W. (2005), Professor, M.L.I.S., Kent State University, 2005
- Sheu, Feng-Ru (2014), Assistant Professor
- Spohn, Melissa M. (1985), Professor, M.L.S., Kent State University, 1986
- Steele, Adam B. (2006), Assistant Professor, M.L.I.S., Kent State University, 2009
- Voelker, Tammy J. (1997), Associate Professor, M.L.S., Kent State University, 2000
- Warren, Thomas (1991), Professor, M.L.I.S., Kent State University, 2000
- Yeager, Kristin E. (2013), Lecturer, M.S., 2012

# GLOSSARY OF ACADEMIC TERMS

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## Academic Advising

Advising helps students clarify their career goals, reach their maximum educational potential and achieve academic success. Academic advisors address student needs related to learning, personal development and career aspirations; recognize and respond to diverse individual needs and differences among students; and help students plan and implement academic programs of study in a manner that will ensure timely progress toward graduation.

## Academic Standing

Academic status at institutions of higher education. Students with a cumulative 2.00 GPA or above are in good academic standing.

## Academic Year

The academic year consists of two 16-week semesters – fall and spring.

## Accreditation

An external review process by which experts authorize or give credentials indicating that standards and expectations have been met by academic programs or institutions.

## Admissions Office

Information pertaining to the process of admission to the university is available from this office.

## Adult Student

A student who is 21 years old or older and who has been out of high school for three years or more at the time of his/her first college enrollment. Further defined as any student whose primary life roles and responsibilities exist independent of the university and which, at times, may take precedence over the role of student.

## Advanced Placement

Credit granted by Kent State for satisfactory scores attained through high school participation in this nationally standardized program. Contact the Transfer Center for information.

## ALEKS

**Assessment and Learning in Knowledge Spaces** is a Web-based, artificially intelligent assessment and learning system. ALEKS uses adaptive questioning to quickly and accurately determine exactly what a student knows and doesn't know in a course. ALEKS then instructs the student on the topics she is most ready to learn. As a student works through a course, ALEKS periodically reassesses the student to ensure that topics learned are also retained. ALEKS courses are very complete in their topic coverage and ALEKS avoids multiple-choice questions. A student who shows a high level of mastery of an ALEKS course will be successful in the actual course she is taking (Source: [www.aleks.com](http://www.aleks.com))

## Advisor

Professional advising staff member or a faculty member who provides students with information concerning courses, programs of study and other aspects of academic life.

## Attempted Credit Hours

Students' total credit-hour registration, either for a specific term or cumulative for all terms. Attempted credit hours include courses for

which students have received either a letter grade or other administrative mark (AU, IN, IP, NA, NF, NR, SF, W, etc.)

## Audit

Audit is enrollment in a class where no grade or credit is received.

## Board of Trustees

The board is made up of 11 trustees, two of whom are students at Kent State University. Trustees are appointed by the governor to provide for the proper maintenance and successful, continuous operation of the university (as specified by the Ohio Revised Code).

## Board Plan

Food service plan operated by the university.

## Bursar's Office

The university office where payments of tuition and fees are made.

## Career Services Center

The university office providing assistance with career employment, career counseling, student employment and academic testing.

## Catalog Year

A term identifying the catalog that contains the requirements defining a student's academic program. Initially, it is the Catalog in force during the student's first semester at Kent State University.

## Catalog in Force

The University Catalog for the current academic year. Example: In fall semester 2015 and spring semester 2016, the Catalog in force is the 2015-2016 University Catalog.

## Certificate Programs

Certificates are awarded to students who successfully complete a course of study designed to meet a specific need and that has been designated a Certificate Program and properly approved as such. These programs typically consist of no less than 15 credit hours and no more than 30.

## Certification

Formal 'licensing' of a professional program according to the standards of an external professional body.

## Center for Student Involvement

The Center for Student Involvement (CSI) offers an array of resources that provide opportunities for leadership and participation in student-initiated projects and organizations.

## College Level Examination Program (CLEP)

A testing program administered by the Career Services Center. The completion of these exams may result in college-level credit.

## College

Academic organizational division of the university offering courses and curricular programs leading to baccalaureate and advanced degrees, as well as minors and certificates.

## Colloquium

An academic seminar on a broad topic usually led by a different lecturer at each meeting.

## Commuter Student

Students who attend Kent State but do not live on campus in a university residence hall.

**Complete Term Withdrawal**

Withdrawal from all courses is permitted through the published deadlines found on the University Registrar's website.

**Concentration**

An area of focus within a major usually encompassing several allied disciplines.

**Co-requisite**

Course(s) requiring simultaneous enrollment in another course. Example: PHY 13001, a lecture course, is a co-requisite for PHY 13021, a lab course.

**Course Add or Drop**

Adding or dropping a course from the student's class schedule.

**Course Load**

Total number of credit hours for which a student is registered during any semester.

**Course Withdrawal**

Process by which a student removes a course(s) from his/her schedule, subject to the deadlines published on the University Registrar's website. A mark of W will be recorded on the student's transcripts.

**Credit-by-Examination (CBE)**

Credit earned in selected approved courses by taking a departmental examination to test knowledge already possessed without previous course enrollment. Refer to the University Registrar's website for more information.

**Credit Hours**

Units based on contact hours in a learning environment that are acquired for completed coursework applied toward a degree or certificate.

**Dean**

The head of a division, faculty, college or school of a university.

**Dean's List**

In recognition of academic excellence, a Dean's List is compiled each academic semester. To qualify, students must have a grade point average in the semester of 3.40 or greater and must have completed 12 or more regular letter-graded credit hours by the end of that semester. This notation will be printed on the students' official transcript.

**Degree**

- **Associate Degree:** Two-year degree of a technical or general nature offered only on the Regional Campuses.
- **Bachelor's Degree:** Academic degree conferred by a university or college.
- **Combined Baccalaureate and Master's Degree Programs:** Programs of study available to students with outstanding undergraduate records or exemplary professional credentials.
- **Master's Degree:** Academic degree conferred by a university for completion of an integrated program of study at the graduate level beyond the bachelor's degree; usually involved one or more years of work and completion of a research project or thesis.
- **Educational Specialist:** Post-master's practitioner program. This is not an interim step between the master's and doctoral degrees, but provides preparation for a specialty position within the field of professional education.
- **Doctoral Degree:** Highest degree conferred by a university following advanced graduate study and research.

**Department**

Academic unit within a college.

**Destination Kent State**

A three-part orientation program designed for first-year students to familiarize them with Kent State University, and provide them with the tools necessary to enjoy a successful journey to graduation.

**Discipline**

Specific area of study; formally organized body of knowledge.

**Dismissal**

Students who fail to make adequate progress toward completion of a program of study or whose academic performance indicates little chance of obtaining the minimum grades required for graduation is no longer allowed to enroll at the university.

**Distance Learning**

Any type of interactive education in which students communicate with faculty and other students via e-mail, electronic forums, video conferencing or another form of computer-based communication, rather than through face-to-face interaction.

**Diversity Course Requirement**

Coursework required of all baccalaureate-seeking students. Typically, students must complete two courses from the list of approved diversity courses, including at least one from the diversity list within the Kent Core.

**Double Major**

The pursuit of two or more programs of academic study for a single degree within the same college.

**Dual Degree**

The pursuit of programs of study in two different colleges within the university leading to degrees in both colleges. Students may also pursue two separate degrees within the same college.

**Electives or General Electives**

Classes pursued in addition to the collegial, departmental, major and other degree requirements.

**Experiential Learning Requirement**

The purpose of Kent State's experiential learning requirement (ELR) is to provide students with direct engagement in learning experiences that promote academic relevance, meaning, and an understanding of real-world issues. Experiential learning opportunities exist in a variety of course- and non-course-based forms and may include community service, service-learning, undergraduate research, study abroad/away, and culminating experiences such as internships, student teaching, and capstone projects, to name a few.

**Faculty Senate**

Faculty governing body that is primarily concerned with matters of university educational policies, curriculum, academic and professional standards, and the establishment, discontinuance and major alteration of academic programs. Possesses shared responsibilities and advisory responsibilities. May consider other matters pertaining to the welfare and mission of the university.

**Financial Aid**

Financial assistance for an eligible student; available in the form of grants, loans, scholarships and federal work-study employment.



**FLASHcard**

Identification card issued to all registered students. It is used for admittance to athletic, cultural and social events; borrowing of library materials; and purchasing goods and services on the Golden Flash debit plan or the Dining Services board plan.

**FLASHcash**

FLASHcash is a prepaid purchase plan for students, faculty, staff or anyone who frequently visits Kent State University. It works like a credit card in reverse. Students make an initial deposit to their account and charges are deducted as they make purchases.

**FlashLine**

FlashLine is the web-based portal (entryway) for Kent State students, faculty, staff and alumni. For help with FlashLine, contact the university Helpdesk at 330-672-HELP or visit the FlashLine information website.

**FlashLine User Name**

Login user name for most campus resources. Everything before @kent.edu in the e-mail address.

**First-Year Experience Course**

Program designed to familiarize new students with the university, their college and university policies and procedures.

**Free Application for Federal Student Aid (FAFSA)**

Financial information document submitted by an applicant for student financial aid; supplies information concerning income, assets, expenses and liabilities.

**Freshman**

An undergraduate student who has earned fewer than 30 credit hours.

**Full-Time Student**

Any undergraduate student enrolled in the university who is carrying a course load of 12 or more credit hours per semester. A full-time graduate student is one registered for 8 or more credit hours per semester.

**General Requirements**

General requirements address a broad range of matters such as degree requirements, requirements for graduation, residency requirements and academic standing.

**GPA (Grade Point Average)**

Grade point average is determined by the number of credit hours attempted at Kent State University and the grades received. The GPA is calculated to three places past the decimal point and not rounded.

**GPS Degree Audit**

The GPS includes a degree audit which is a summary of degree requirements merged with the academic record which provides a real-time assessment of progress toward graduation. The audit is organized in blocks of like requirements. The Degree Audit is the official list of all requirements for graduation.

**GPS Individualized Degree Plan**

Students create a Degree Plan that begins with the requirements in the Degree Audit, organized in a Roadmap format, but tailored for the student's unique situation. The Degree Plan can be adjusted to fit the student's needs, including shortening the time to graduation, adding summer terms or expanding your program length to accommodate a work schedule or family responsibilities.

**Graduate Student Senate**

Represents the concerns of the graduate student community of Kent State University and serves as an allocation body by providing funding to graduate students and graduate organizations for speakers, workshops, social events and professional travel.

**Graduation Planning System (GPS)**

A program that provides students with a roadmap to degree completion which includes a real-time degree audit and an individualized educational plan.

**Grant (Financial Aid)**

A nonrepayable award to an eligible student based upon determined financial needs and program criteria.

**Incomplete (IN mark)**

An administrative mark that may be given to students who are unable to complete the last three weeks of a semester because of factors beyond their control.

**In Progress (IP mark)**

A mark given to indicate that research, individual investigation or similar efforts are in progress and that a final grade will be given when all the work is completed.

**Individual Investigation**

A method of independent study that, if approved by the appropriate university authorities, allows the student to pursue topics of interest in a flexible time frame.

**Individualized Major**

Individually designed program of study developed in consultation with the dean of the college and with faculty recommendations. Kent State offers the individualized major within the Associate of Technical Study degree and the Bachelor of Integrative Studies degree.

**Intercollegiate**

Activities involving two or more colleges or universities.

**Interdisciplinary**

Course or program of study involving two or more major areas and departments of study.

**International Student**

A student who is not a citizen of the United States and who has entered the United States on a temporary basis for the purpose of enrolling in an educational institution.

**Internship**

A work experience in a position related to the academic field of preparation.

**Junior**

An undergraduate student who has earned between 60-89 credit hours.

**Kent Academic Progress System (KAPS)**

An automated degree audit system to monitor students' progress toward completion of degree requirements.

**Kent Core**

The Kent Core is the foundation of the university's mission to prepare students to live in today's complex, global society. It broadens intellectual perspectives, fosters ethical and humanitarian values and prepares students for responsible citizenship and productive careers. Through this

learning experience, students develop the intellectual flexibility they need to adapt to an ever-changing world.

Kent Core Coursework

- Composition
- Mathematics and Critical Reasoning
- Humanities and Fine Arts
- Social Sciences
- Basic Sciences
- Additional Courses

### **Kent State ID Number**

A 9-digit number that identifies students, faculty, staff, alumni and others in the Banner system.

### **Late Registration**

Process of initial class enrollment for a given term once the term has begun. A late registration fee is assessed beginning the second week of classes.

### **Liberal Education Requirements (LER) (Replaced by Kent Core fall 2010)**

In five areas to be completed during the first two years of study, the LER are designed to provide a common nucleus and an appropriate breadth of inquiry, understanding and perspective to the Kent State undergraduate education experience. It is essential, therefore, that students consult the Catalog descriptions for their college degree program.

### **Licensure**

Formal 'permission' of a professional program according to the standards of an external professional body—for example, the certification of graduates in approved curricula of the College of Education, Health, and Human Services.

### **Lower Division Courses (10000, 20000)**

Are for freshmen, sophomores and others with little or no background in the discipline. Generally, these courses provide the understanding, foundation and preparation for more advanced study (although a pathway for more advanced study is not always required, and they may be ends in themselves).

### **Major**

A subject of focus for academic study in which a student pursues a prescribed curriculum and is a formal degree candidate.

### **Math Emporium**

A state-of-the-art learning center where students will interact with adaptive ALEKS software and a highly skilled instructional team. Students learn through an innovative, engaging and easy-to-use program designed to help them become comfortable and proficient in basic mathematics.

### **Matriculation**

The process of being admitted into a group, especially a college or university.

### **Minor**

Subject of focus for academic study in which a student pursues a prescribed curriculum and is a formal degree candidate.

### **Noncredit**

Courses or programs for which no academic credit is given.

### **Nonresident**

Student who has not established status as a resident of Ohio as defined by Ohio Board of Regents. Refer to the policy in the Policy Register on the Kent State website.

### **Office of Student Conduct**

Responsible for addressing the adjudication of students who are accused of violating campus rules or policies, state laws, federal laws, and/or municipality disputes.

### **OIG (Financial Aid)**

Ohio Instructional Grant; a nonrepayable award made by the Ohio Board of Regents to an eligible undergraduate student who is an Ohio resident. The OIG is applied to the cost of tuition and fees.

### **Ombuds**

Swedish term meaning 'representative.' Person appointed by the university to assist students in resolving concerns, complaints and grievances through established channels.

### **Part-Time Student**

Any undergraduate student enrolled in the university who is carrying a course load of fewer than 12 credit hours per semester; a graduate student enrolled in the university who is carrying a course load of fewer than 8 credit hours per semester.

### **Pass-Fail**

System by which undergraduate students can take elective courses for a grade of pass or fail in lieu of a letter grade.

### **Pell Grant**

A nonrepayable financial aid award provided by the federal government directly to an undergraduate student.

### **Postundergraduate**

A student with a baccalaureate degree who is enrolling in additional undergraduate-level classes.

### **Practicum**

A school or college course, especially one in a specialized field, designed to give the students supervised practical experience.

### **Preprofessional**

Preparation for professional training through undergraduate programs of study.

### **Prerequisite**

Course(s) or condition(s) required before enrollment in a more advanced class. Example: FR 13201 is a prerequisite for FR 13202.

### **President's List**

In recognition of an extremely high level of academic excellence, a President's List is compiled each academic semester. To qualify, undergraduate students must have a grade point average in the semester of 4.00 and must have completed 15 or more credit hours (all of which have regular grades) by the end of that semester. This notation will be printed on the students' official transcripts.

### **Probation (Academic)**

A warning to undergraduate students who fail to maintain a semester and/or overall grade point average of 2.00 or better. Failure to improve the academic record within a specific time may result in academic dismissal.

### **Program**

Plan of academic study.

**Provost**

Senior vice president of academic affairs; chief academic officer of the university.

**Quality Points**

The number of points assigned per credit hour for each letter grade.

**Registrar's Office**

The university office that plans and oversees registration activities, record maintenance, transcript preparation and academic testing.

**Registration**

Process of initial class enrollment for a given term.

**Reinstatement**

Process by which a student may gain reentry to the university after a dismissal.

**Repeat for Recalculation**

Students may repeat lower-division (10000-20000 level) courses, and the university will use only the highest grade in the calculation of the cumulative grade point average. The repeated credit hours will be added back in for the purposes of calculating institutional honors.

**Requirement**

Course or condition that must be fulfilled as part of a particular program.

**Roadmap**

A list of course requirements in a semester-by-semester layout that must be met for undergraduate students to graduate with a specific major. Roadmaps also identify courses and other milestones that are critical for students to complete in a particular semester to be on track for timely graduation.

**ROTC**

Reserve Officers Training Corps—program leading to commission as officer in military service in either the Air Force or Army.

**Schedule Adjustment**

A change to a class schedule for a student who has already enrolled in at least one course for the term. Deadlines for schedule adjustments are published on the University Registrar's website.

**School**

Term applied to academic units within a particular college or to a single academic unit offering curricular programs leading to a baccalaureate or advanced degree.

**Scholarship**

A nonrepayable award to an eligible student based upon academic achievement and determined financial need or, in some cases, based upon academic achievement alone.

**Semester**

School term (about 16 weeks long) that is one-half of the academic year.

**Semester Hour**

Each unit of academic credit assigned to a course as the credit value for that course under the semester system is known as the credit hour. Generally, credit hours for a course are directly equivalent to the number of classroom contact hours per week.

**Senior**

An undergraduate student who has earned 90+ credit hours.

**Sequence**

Courses that must be taken in a definite order.

**Sophomore**

An undergraduate student who has earned 30-59 credit hours.

**Student Legal Services**

A non-profit law firm whose purpose is to explain and assist in resolving legal issues that a student may face.

**Syllabus**

An outline or a summary of the main points of text, lecture or course of study.

**Symposium**

A meeting or conference for discussion of topic, especially one in which the participants form an audience and make presentations.

**Transcript**

The accurate and complete record of a student's academic coursework attempted at an institution, presented in either electronic format or paper format.

**Transfer Module**

Developed by the Ohio Board of Regents, a specific subset or the entire set of a college or university's general education requirements (Kent Core). A Transfer Module completed at one Ohio college or university will automatically meet the requirements of the Transfer Module at the receiving Ohio institution, once the student is accepted. Students may be required, however, to meet additional general education requirements that are not included in the Transfer Module.

**Transfer Student**

Any student applying to Kent State University who has attended any institution of higher learning since leaving high school.

**Transient Coursework**

Coursework approved for Kent State University students who attended another accredited institution.

**Transient Student**

Any student enrolled in another college or university who will attend Kent State University for one term.

**Tuition**

A fee for instruction, especially at a formal institution of learning.

**Tutor**

Person providing special study skills and assistance in a particular subject or academic program.

**Undergraduate**

A term applied to students who are pursuing an associate or bachelor's degree as a freshmen, sophomores, juniors and seniors.

**Undergraduate Overload**

Enrollment for classes hour in excess of 18 during fall or spring semester, in excess of 6 credit hours during Summer I or III, or 10 credit hours during Summer II.

**Undergraduate Student Government**

Primary vehicle by which the undergraduate student body provides its input into the university community.

**Upper Division Courses (3000, 40000)**

Upper-division credit should be awarded for courses that are major related with the specialization, breadth and depth in a particular field. These courses typically have prerequisites because it is understood that it is advanced study, and students need the proper knowledge before taking the course.

**Withdraw**

See Course Withdrawal

**Workshop**

A credit or noncredit activity that focuses on a participant's professional tasks. Instructional emphasis is given to mastery and applications of knowledge, skills and attitudes that address a narrowly defined range of problems or issues related to practice. All credit workshops are graded satisfactory/unsatisfactory (S/U).

**Work-Study (Financial Aid)**

An employment program based upon determined financial need. An eligible student may be employed on campus for not more than an average of 20 credit hours per week to earn money to help pay for educational costs.

**Writing-Intensive Course Requirement**

A graduation requirement for all undergraduate students requiring completion of at least one upper-division course designed as 'writing-intensive' with a grade of C (2.000) or better.

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